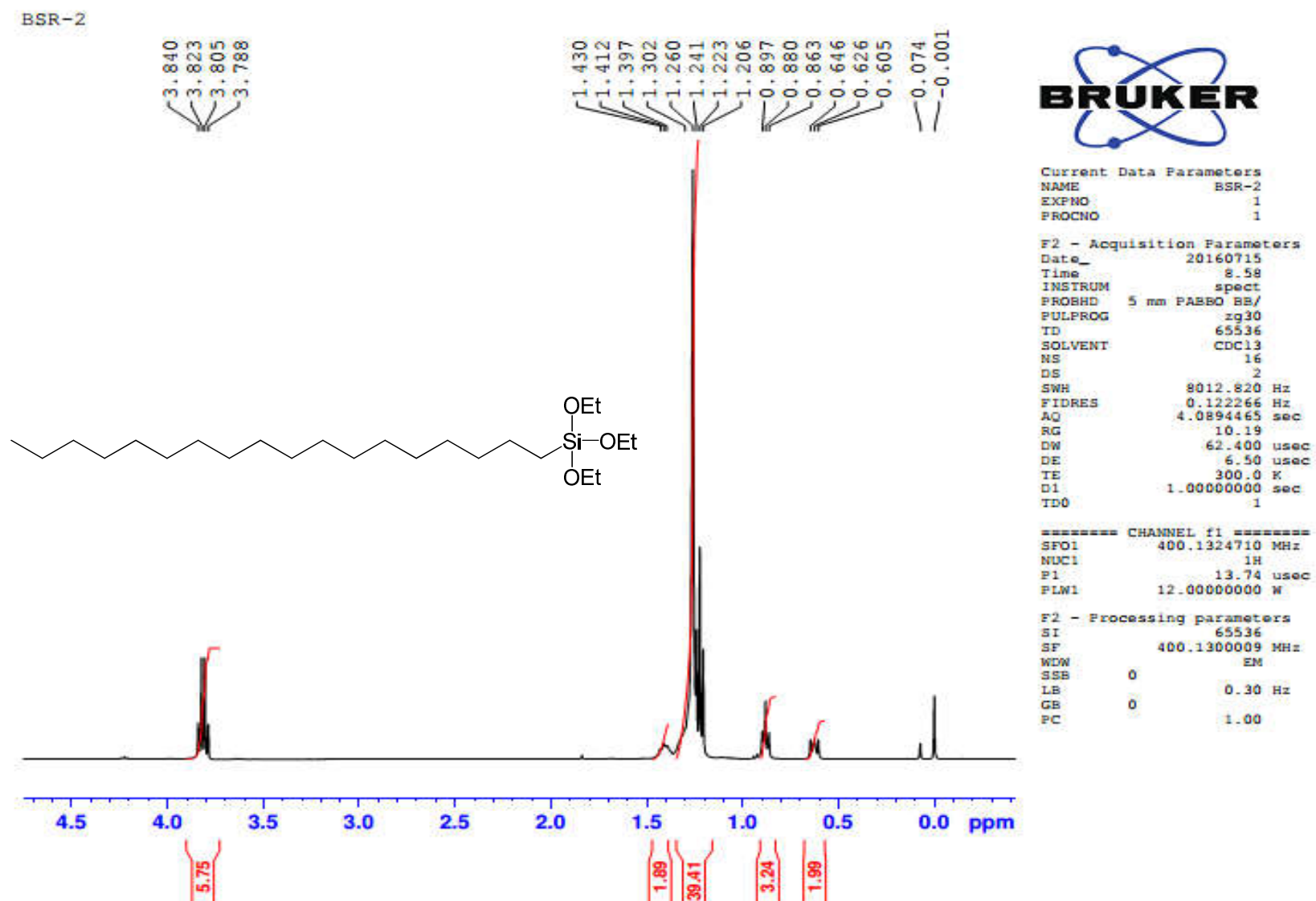


Supporting Information

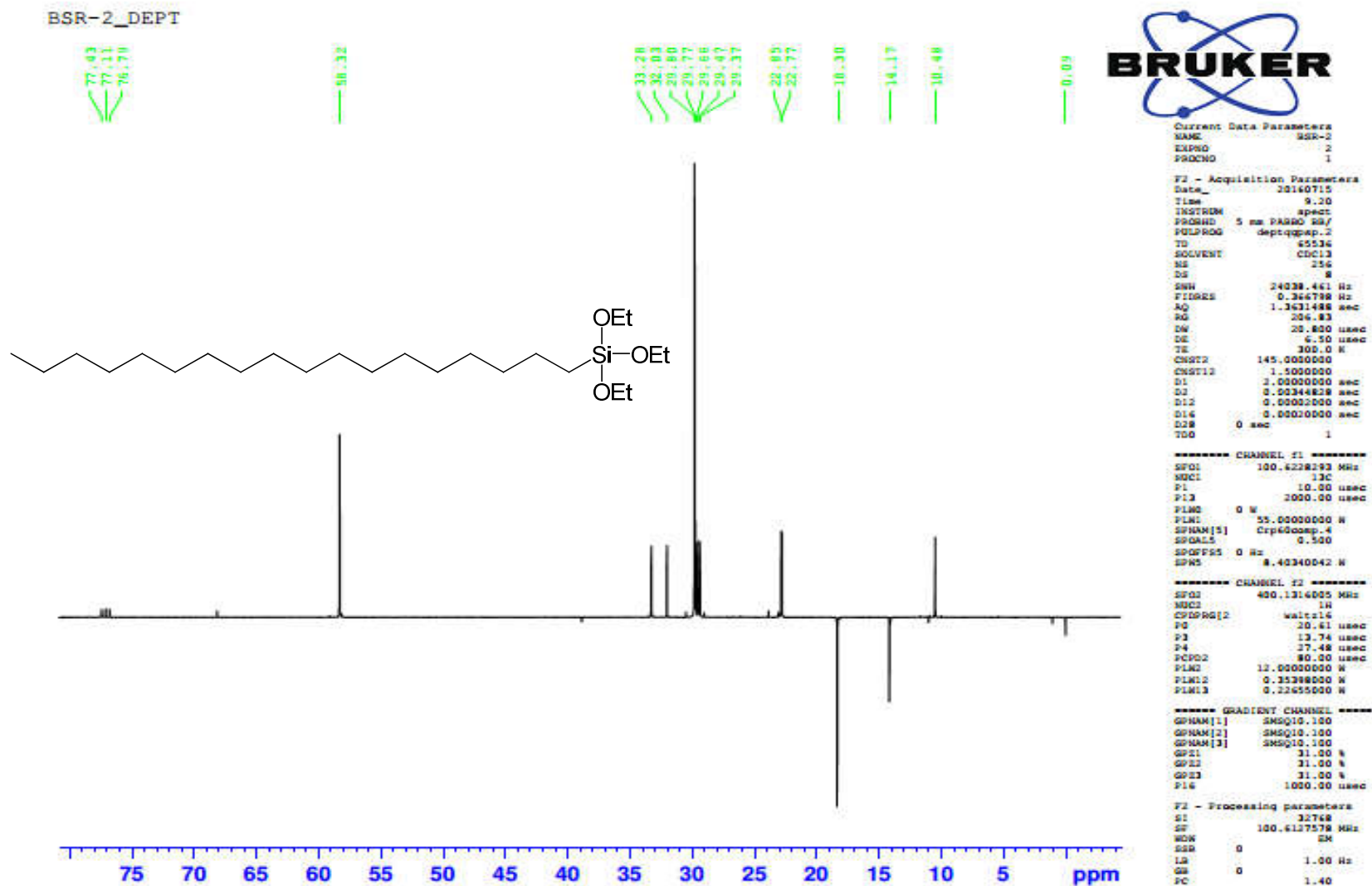
Nano-dispersed platinum(0) in organically modified silicate matrices as sustainable catalysts for a regioselective hydrosilylation of alkenes and alkynes

Brett J. Duke, Evan N. Akeroyd, Shreeja V. Bhatt, Chibueze I. Onyeagusi, Shreya V. Bhatt, Brandy R. Adolph and Jean Fotie*

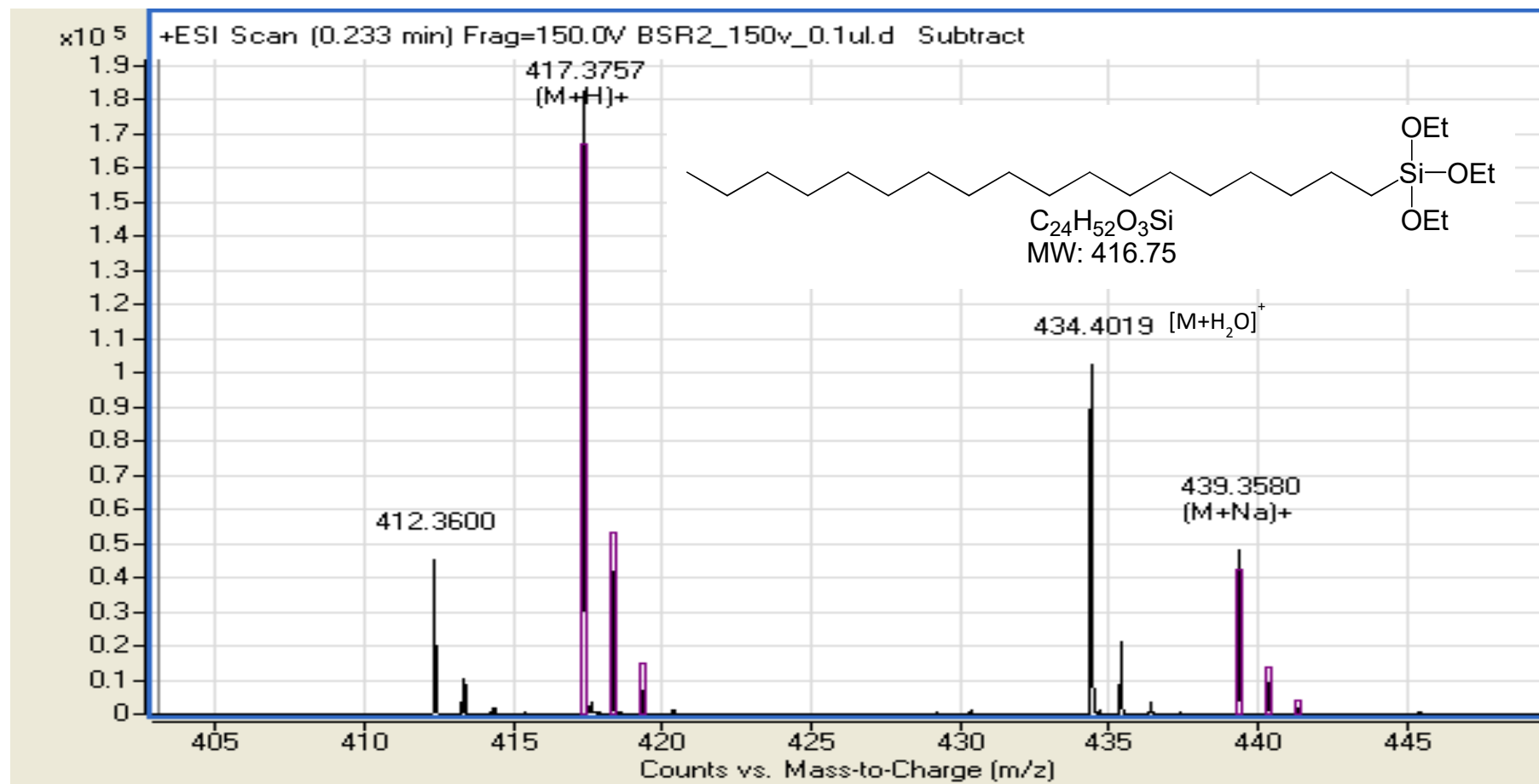
Triethoxy(octadecyl)silane (**1**)– ^1H -NMR (CDCl_3 , 400 MHz)



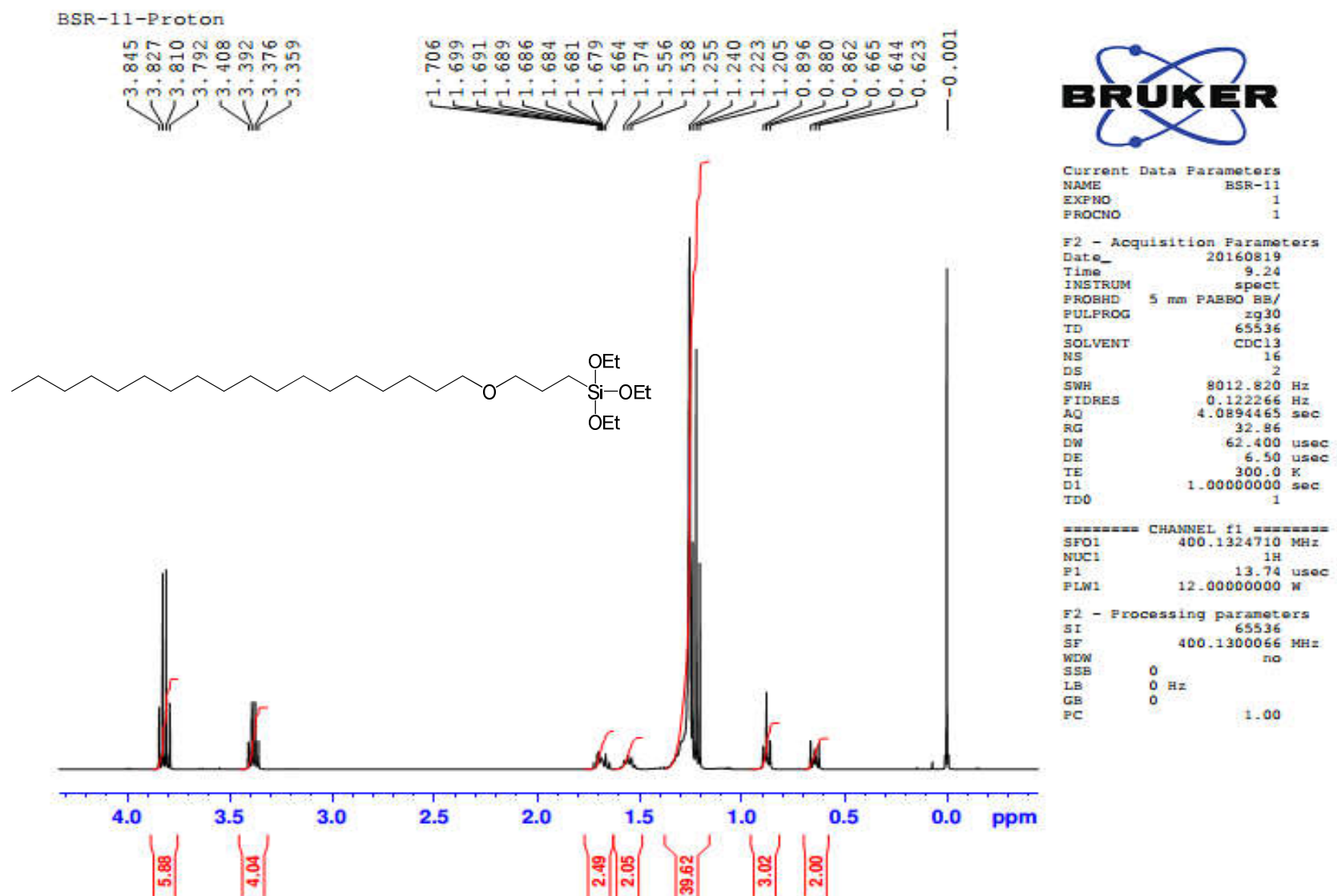
Triethoxy(octadecyl)silane (**1**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



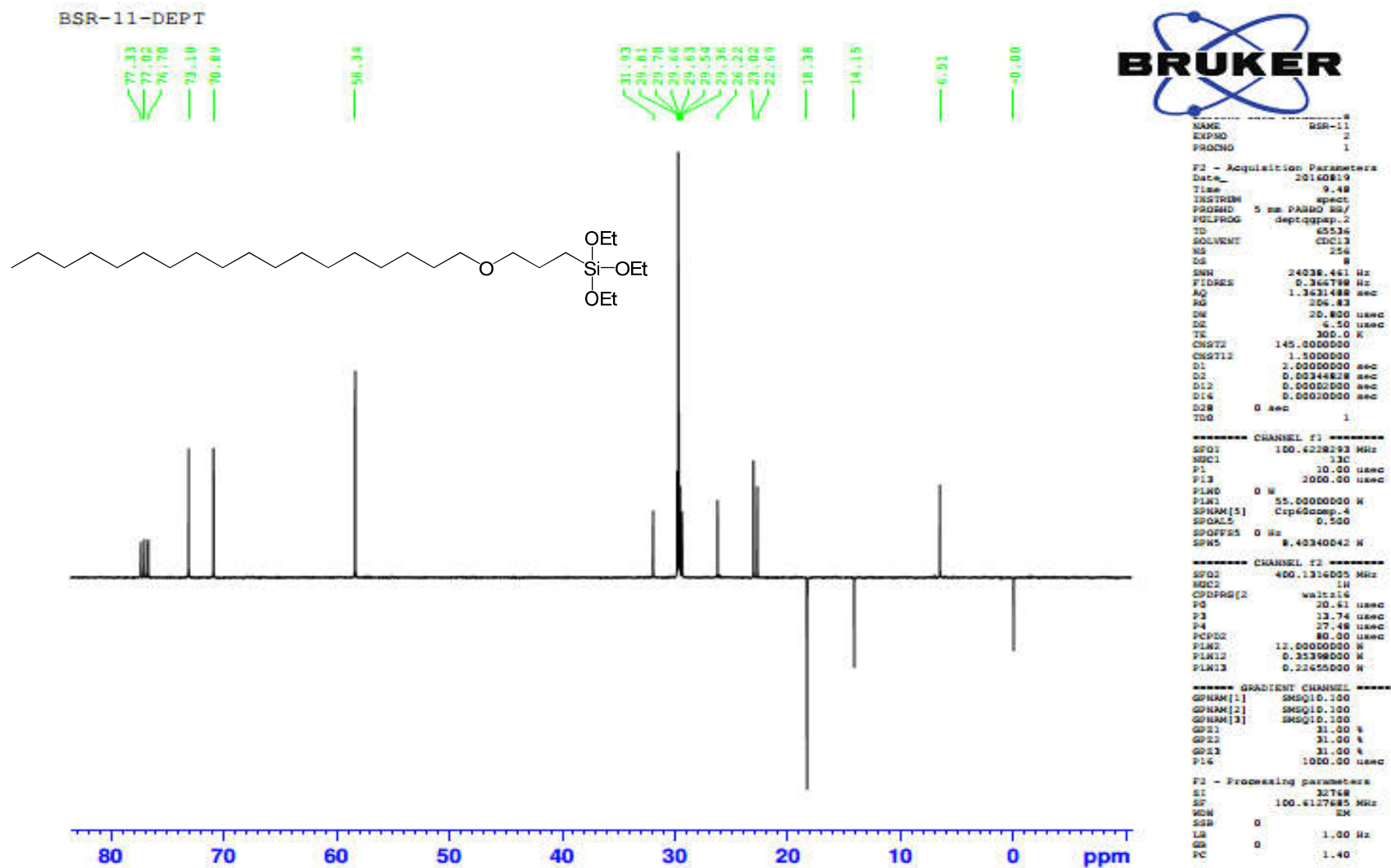
Triethoxy(octadecyl)silane (**1**) – HR-ESIMS [M+H]⁺ Calculated 417.3758; Observed 417.3757



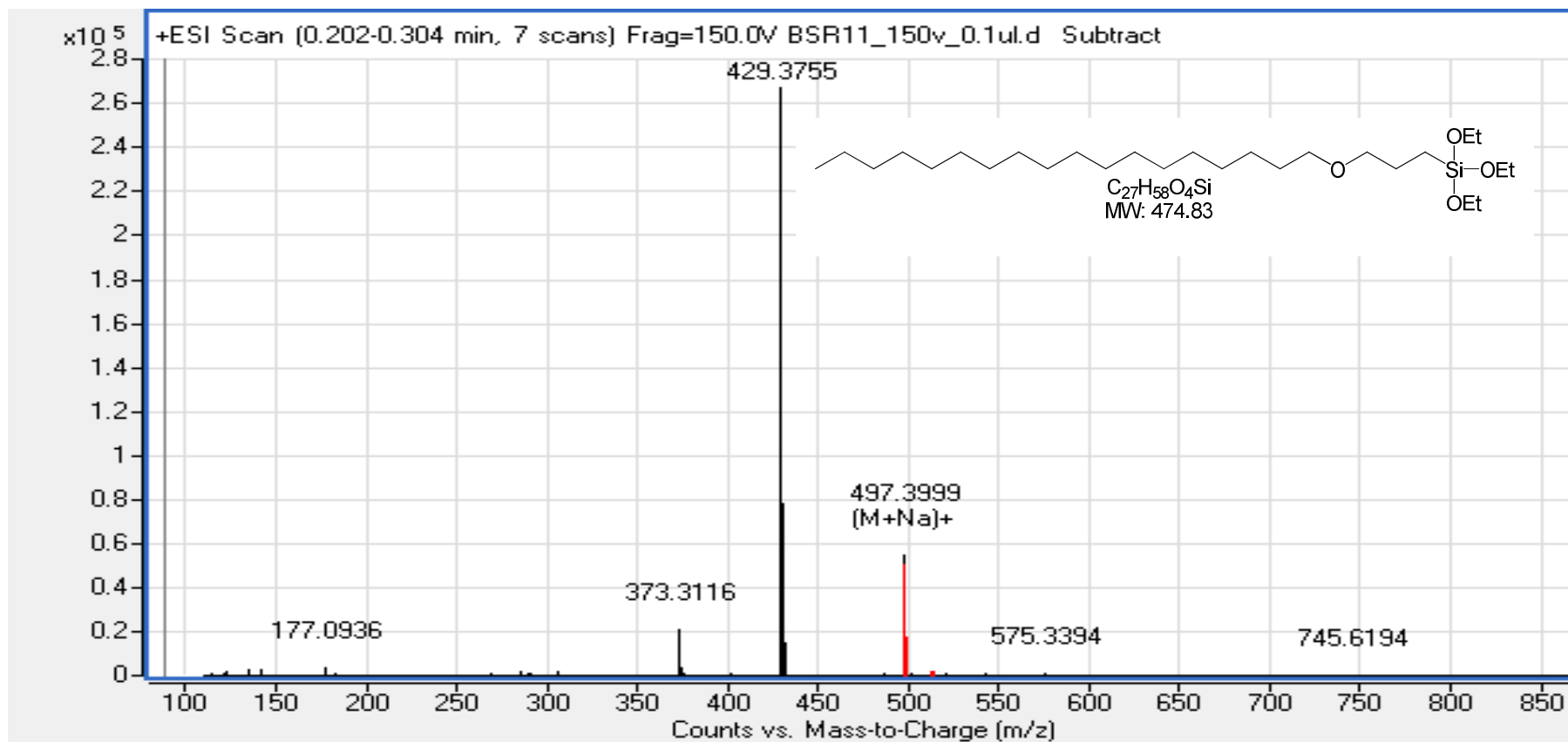
Triethoxy[3-(octadecyloxy)propyl]silane (**2**) – ^1H -NMR (CDCl_3 , 400 MHz)



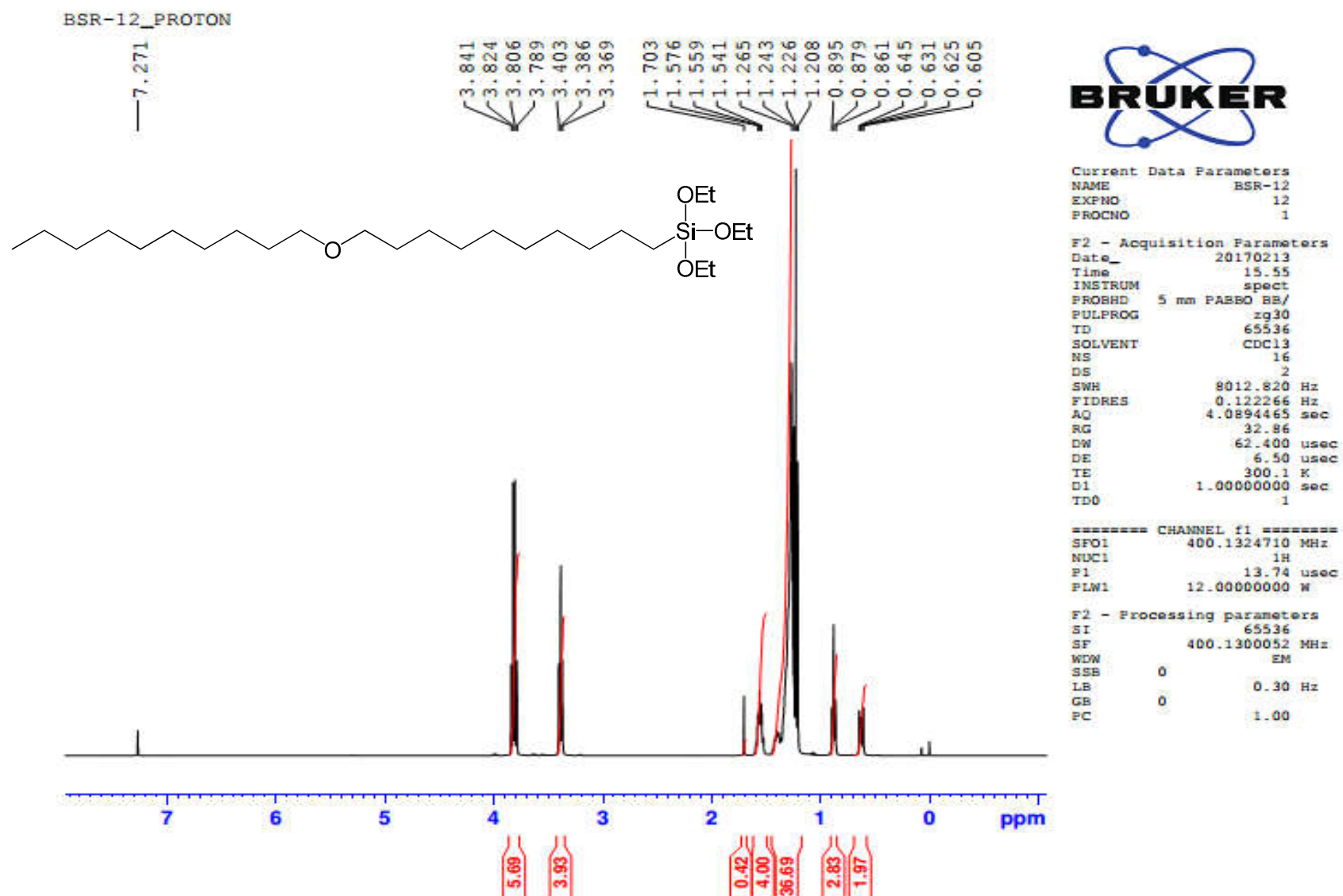
Triethoxy[3-(octadecyloxy)propyl]silane (**2**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



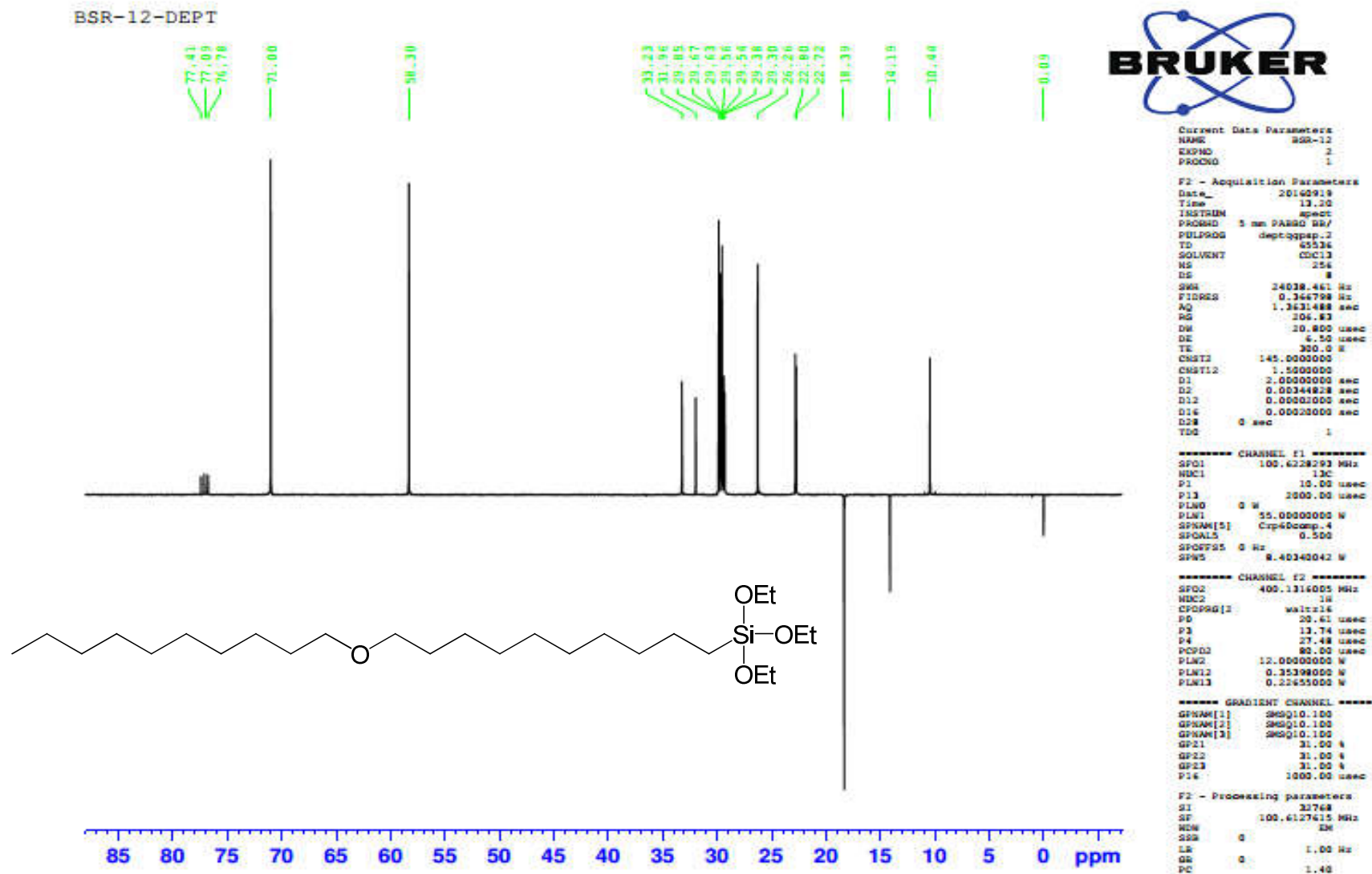
Triethoxy[3-(octadecyloxy)propyl]silane (**2**) – HR-ESIMS [M+Na]⁺ Calculated 497.3997; Observed 497.3999.



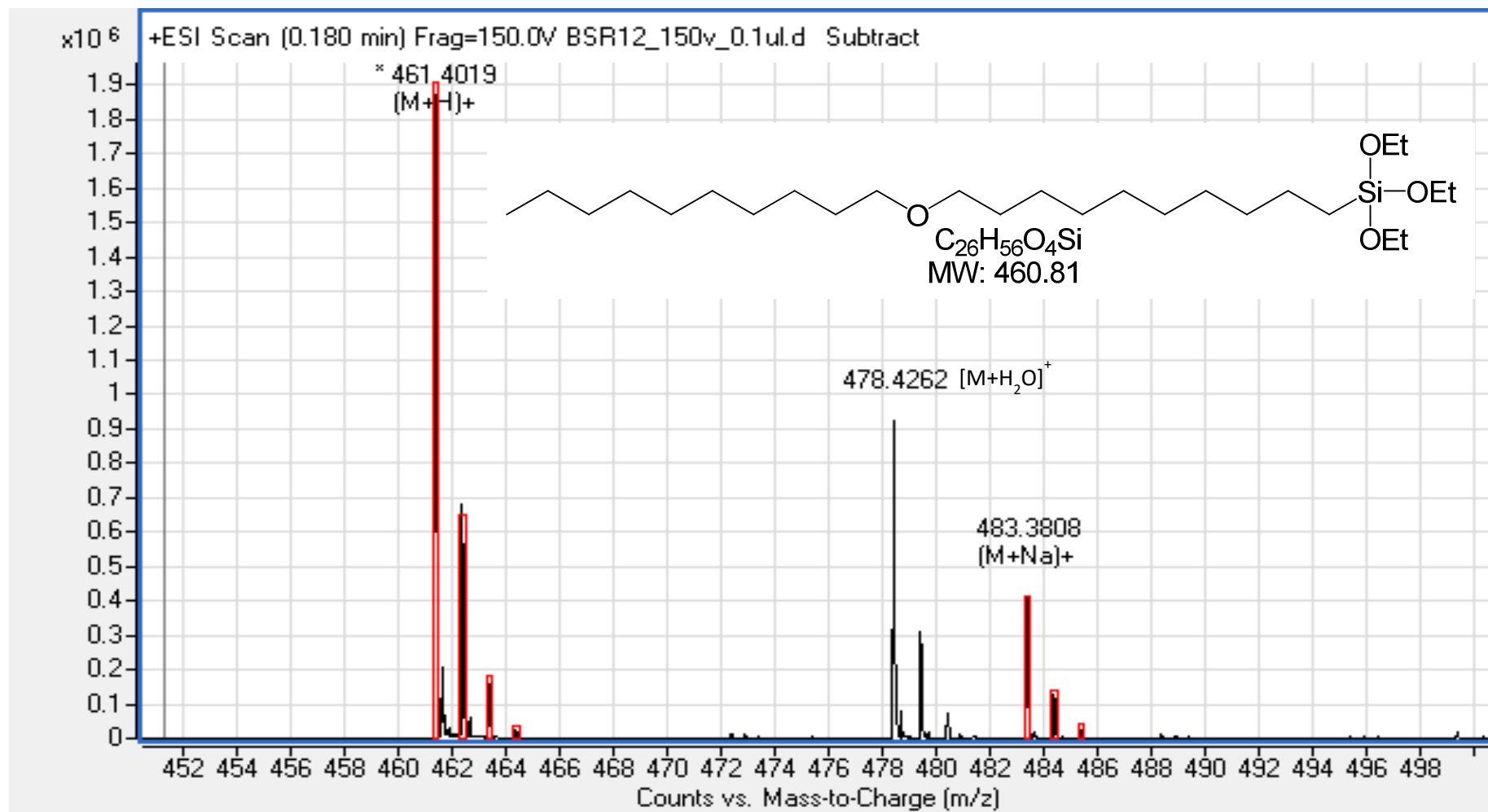
[10-(Decyloxy)decyl]triethoxysilane (**3**) – ^1H -NMR (CDCl_3 , 400 MHz)



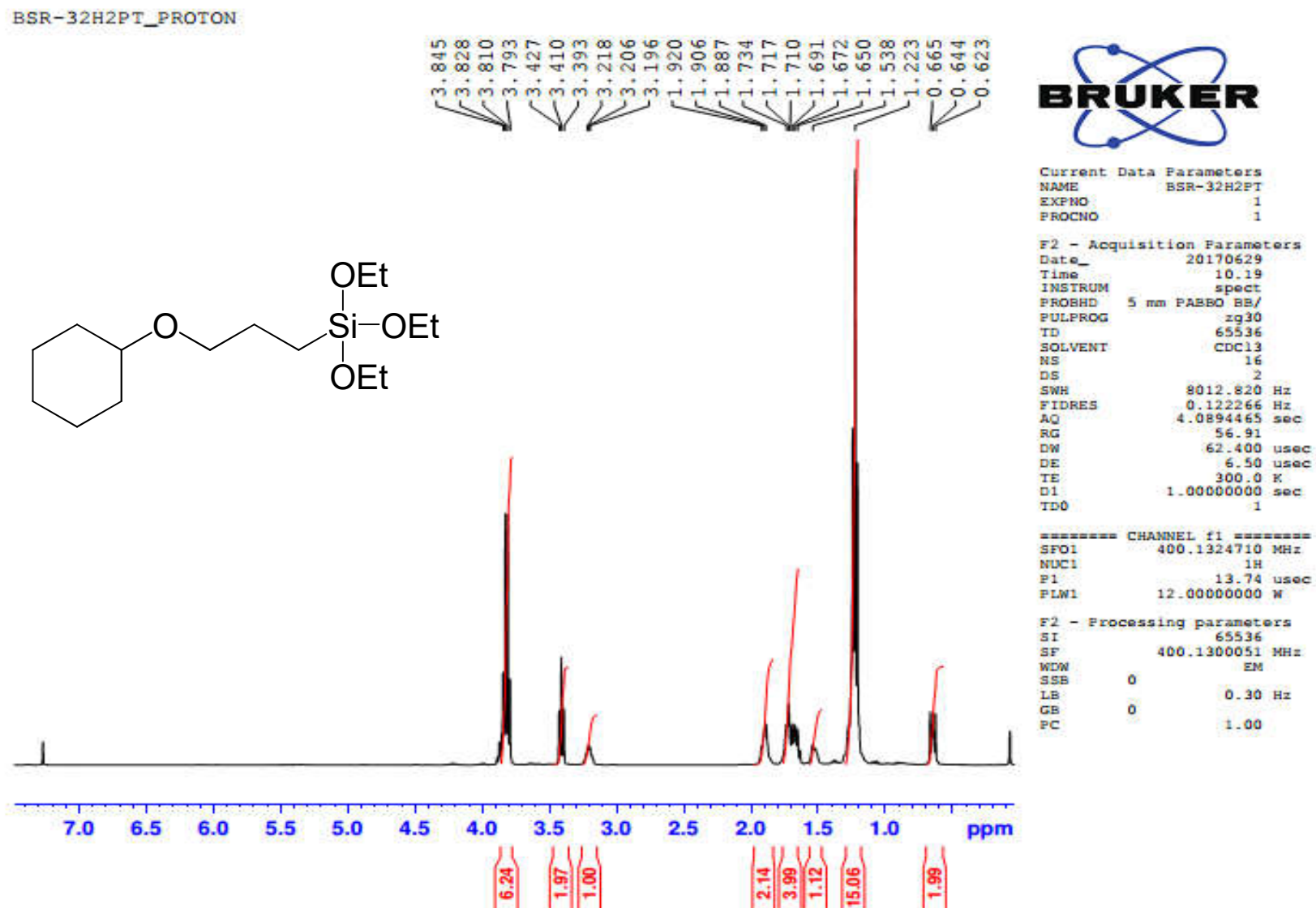
[10-(Decyloxy)decyl]triethoxysilane (**3**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



[10-(Decyloxy)decyl]triethoxysilane (**3**) – HR-ESIMS [M+H]⁺ Calculated 461.4021; Observed 461.4019.

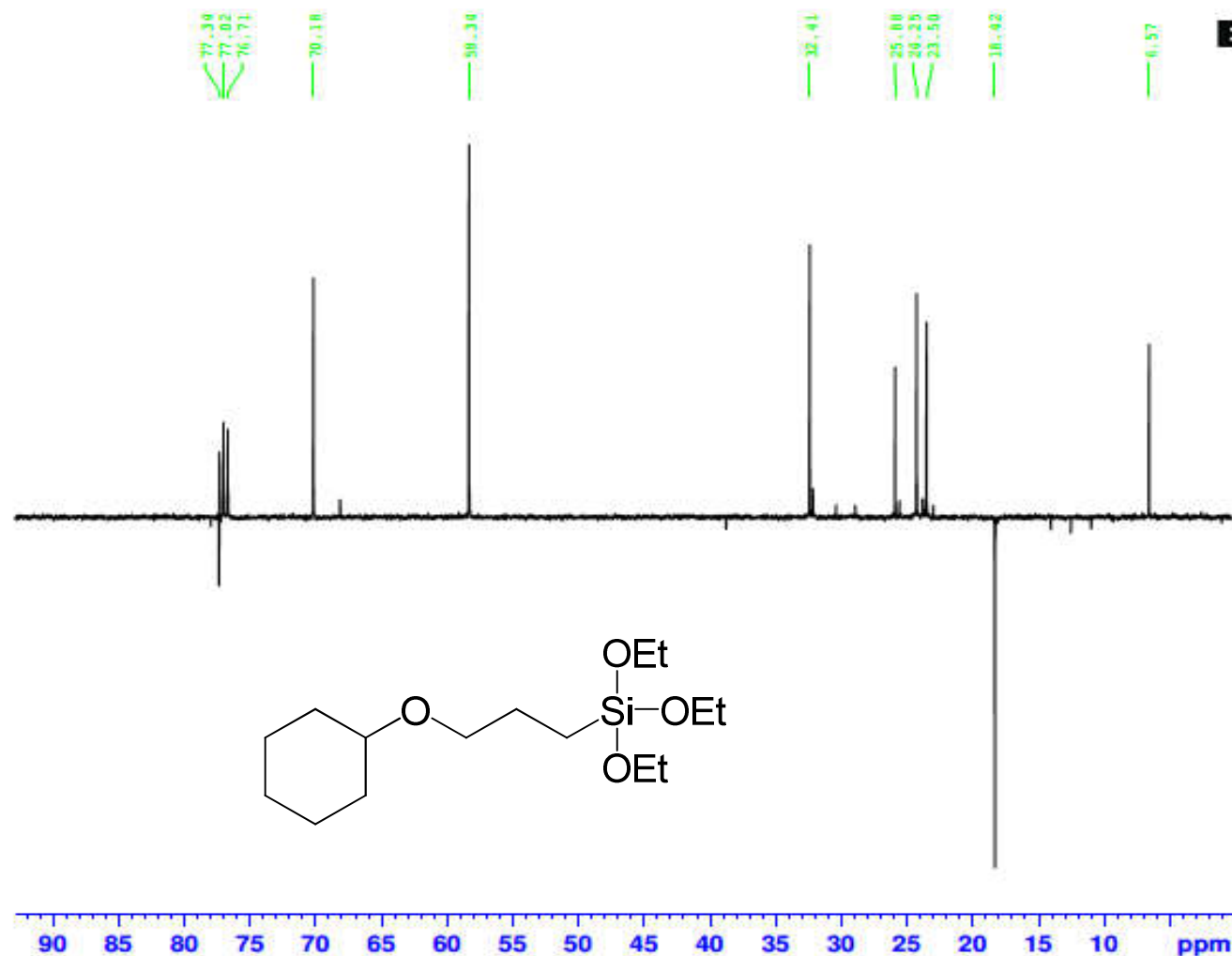


[3-(cyclohexyloxy)propyl]triethoxysilane (**4**) – ^1H -NMR (CDCl_3 , 400 MHz)



[3-(cyclohexyloxy)propyl]triethoxysilane (**4**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-32_CARBON_TEOS



Current Data Parameters
NAME BSR-32
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170628
Time 15.23
INSTRUM spect
PROBHD 5 mm PABBO DR/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24039.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 204.83
DS 20.850 usec
DE 6.50 usec
TE 300.0 K
CMT2 145.000000
CMT12 1.500000
D1 2.0000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
D16 0.00002000 sec
D18 0 sec
TD0 1

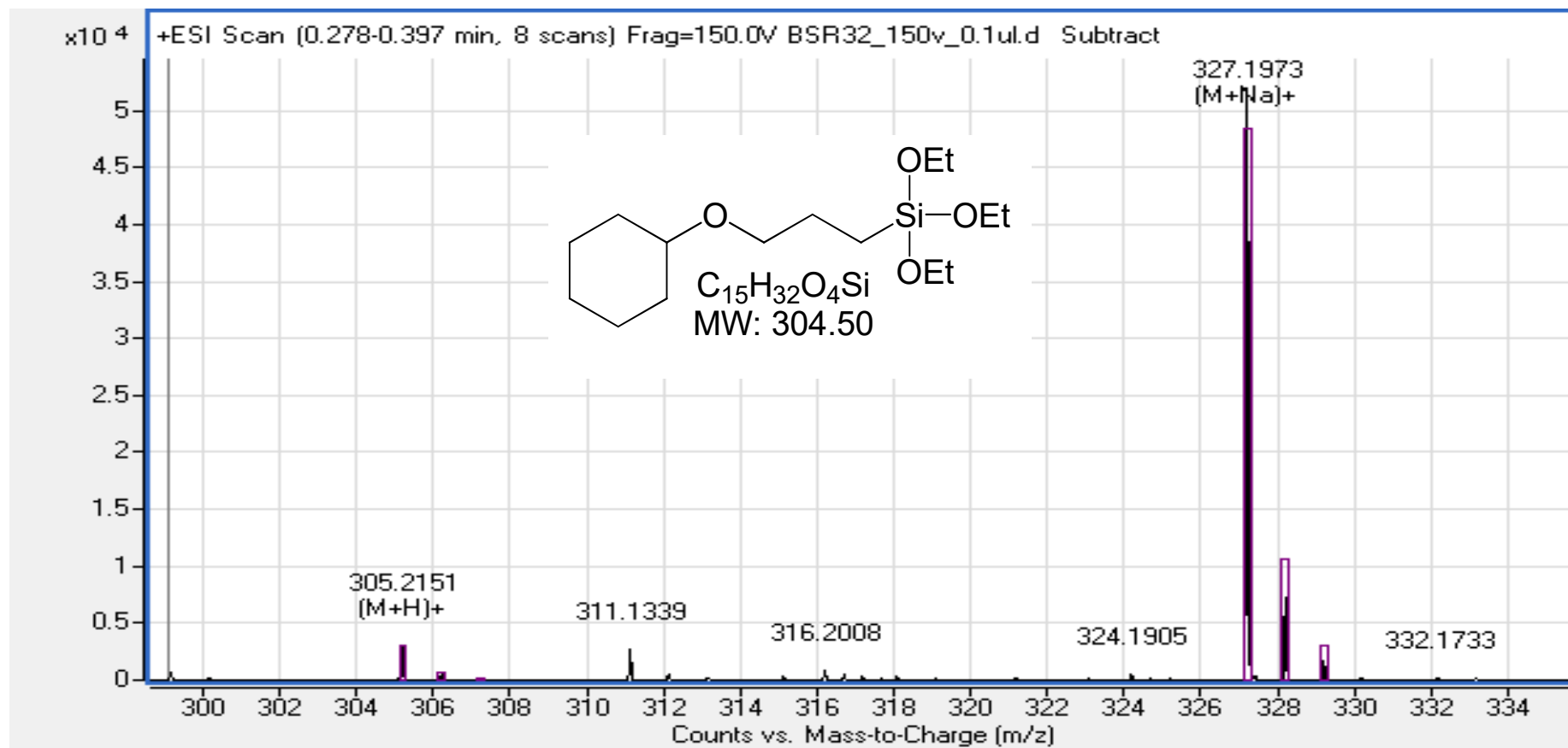
===== CHANNEL f1 =====
SFO1 100.628253 MHz
NDC1 13C
P1 10.00 usec
P13 1000.00 usec
PLN0 0 W
PLN1 35.0000000 W
SFOA5[5] Cys60comp. 4
SFOA5 0.500
SFOF5 0 Hz
SFW5 8.40340042 W

===== CHANNEL f2 =====
SFO2 400.131405 MHz
NDC2 1H
CPDPRG2 waltz16
P2 20.61 usec
P3 13.74 usec
P4 27.48 usec
PCPD2 80.00 usec
PLN2 12.0000000 W
PLN12 0.35398000 W
PLN13 0.22455000 W

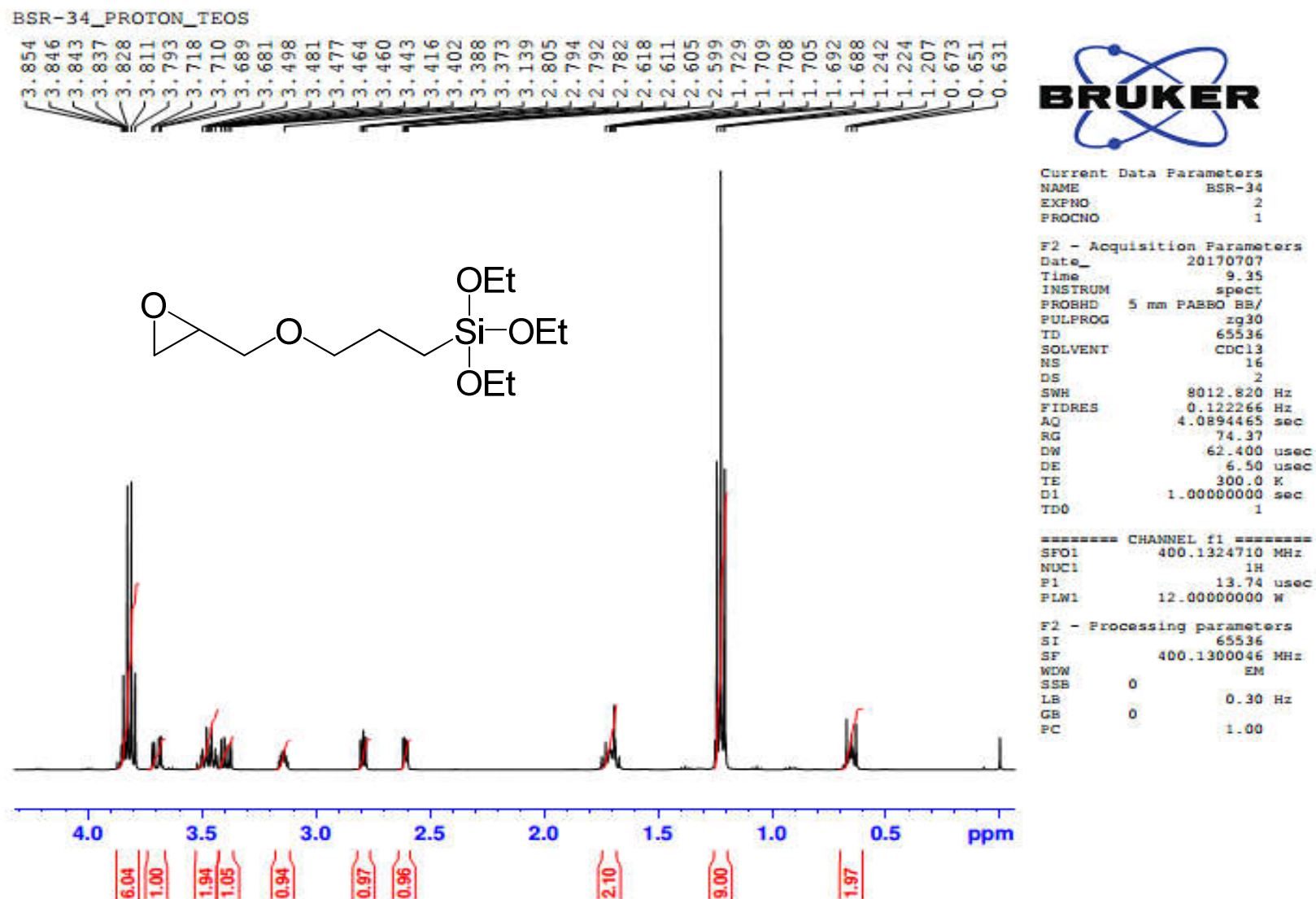
===== GRADIENT CHANNEL =====
GPRAM[1] SHG10.100
GPRAM[2] SHG10.100
GPRAM[3] SHG10.100
GP21 31.00 %
GP22 31.00 %
GP23 31.00 %
P16 1000.00 usec

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

[3-(cyclohexyloxy)propyl]triethoxysilane (**4**) – HR-ESIMS $[M+Na]^+$ Calculated 327.1962; Observed 327.1973.

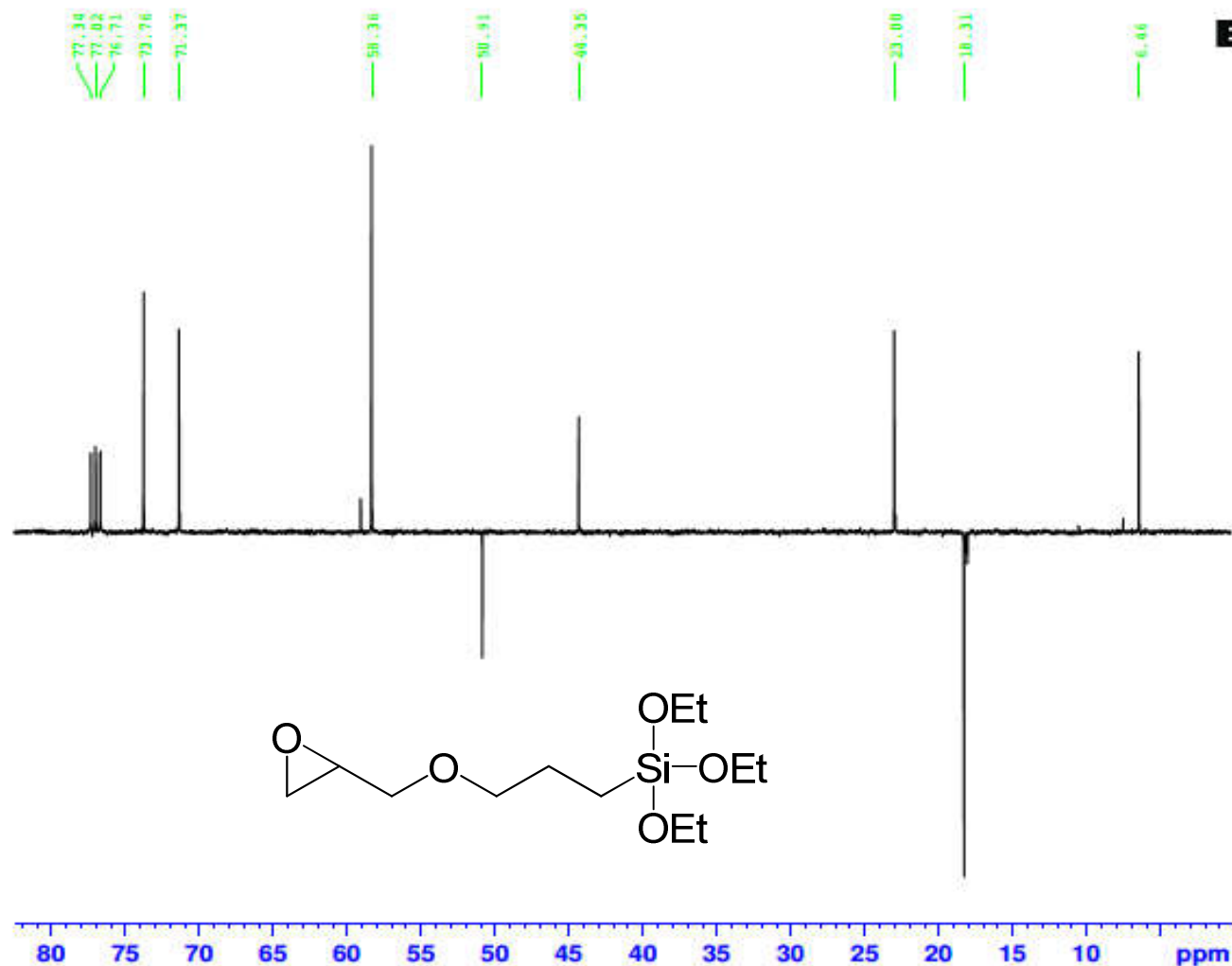


4-[3-(triethoxysilyl)propoxy]piperidine (**5**) – ^1H -NMR (CDCl_3 , 400 MHz)



4-[3-(triethoxysilyl)propoxy]piperidine (**5**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-34_CARBON_TEOS



Current data parameters
NAME BSR-34
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170707
Time 10.04
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24039.461 Hz
FIDRES 0.366798 Hz
AQ 1.3431488 sec
RG 206.83
DN 20.800 usec
DE 6.50 usec
TE 300.0 K
CHST2 145.000000
CHST12 1.500000
D1 2.0000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
D14 0.00020000 sec
D28 0 sec
TD0 1

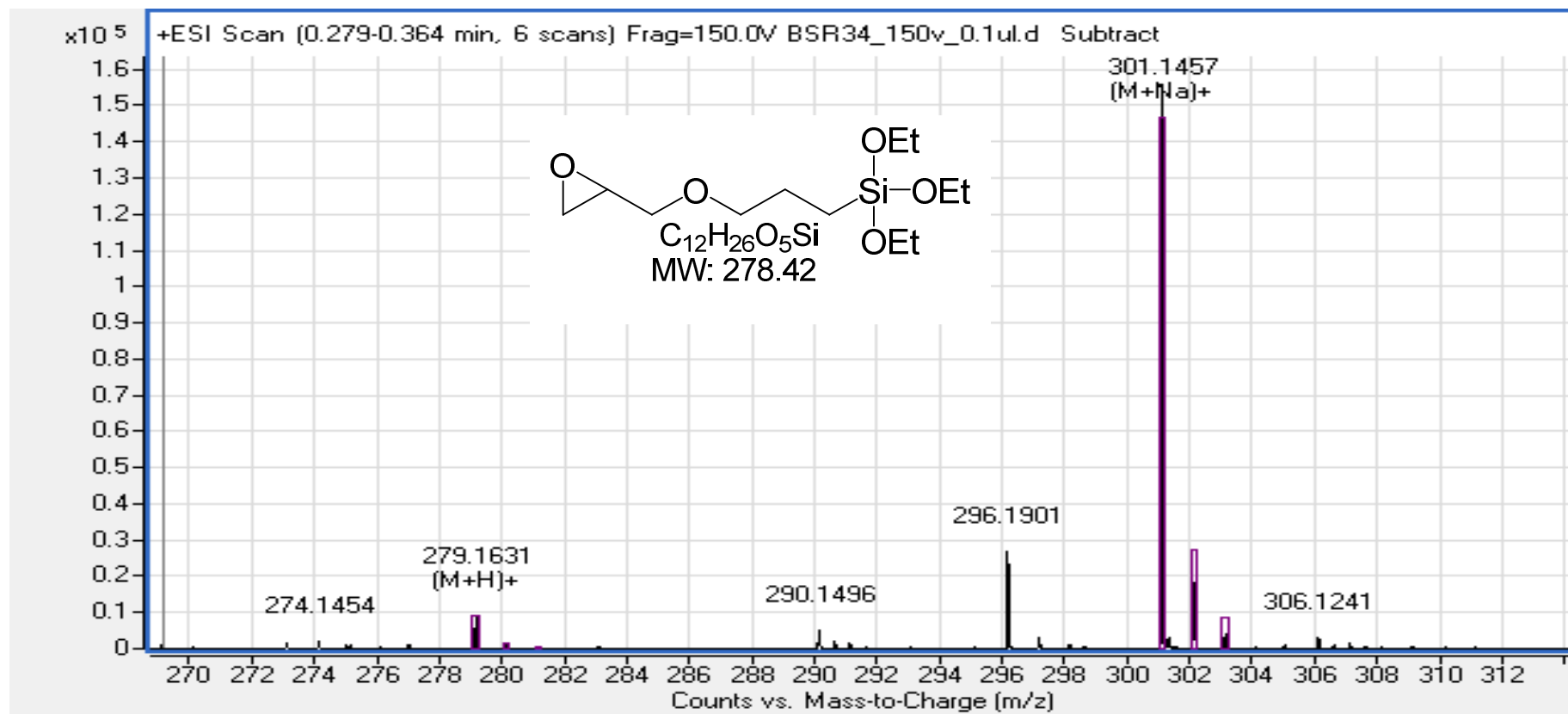
===== CHANNEL f1 =====
SFO1 100.6228293 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLN0 0 W
PLN1 55.0000000 W
SFO1M5 Cpu60comp 4
SFO1M5 0.500
SFO1M5 0 Hz
SFO1M5 8.40340042 W

===== CHANNEL f2 =====
SFO2 400.1314005 MHz
NUC2 1H
CFO1M2 waltz16
P2 20.61 usec
P3 13.74 usec
P4 27.48 usec
PCPD2 80.00 usec
PLN2 12.0000000 W
PLN12 0.3539000 W
PLN13 0.22655000 W

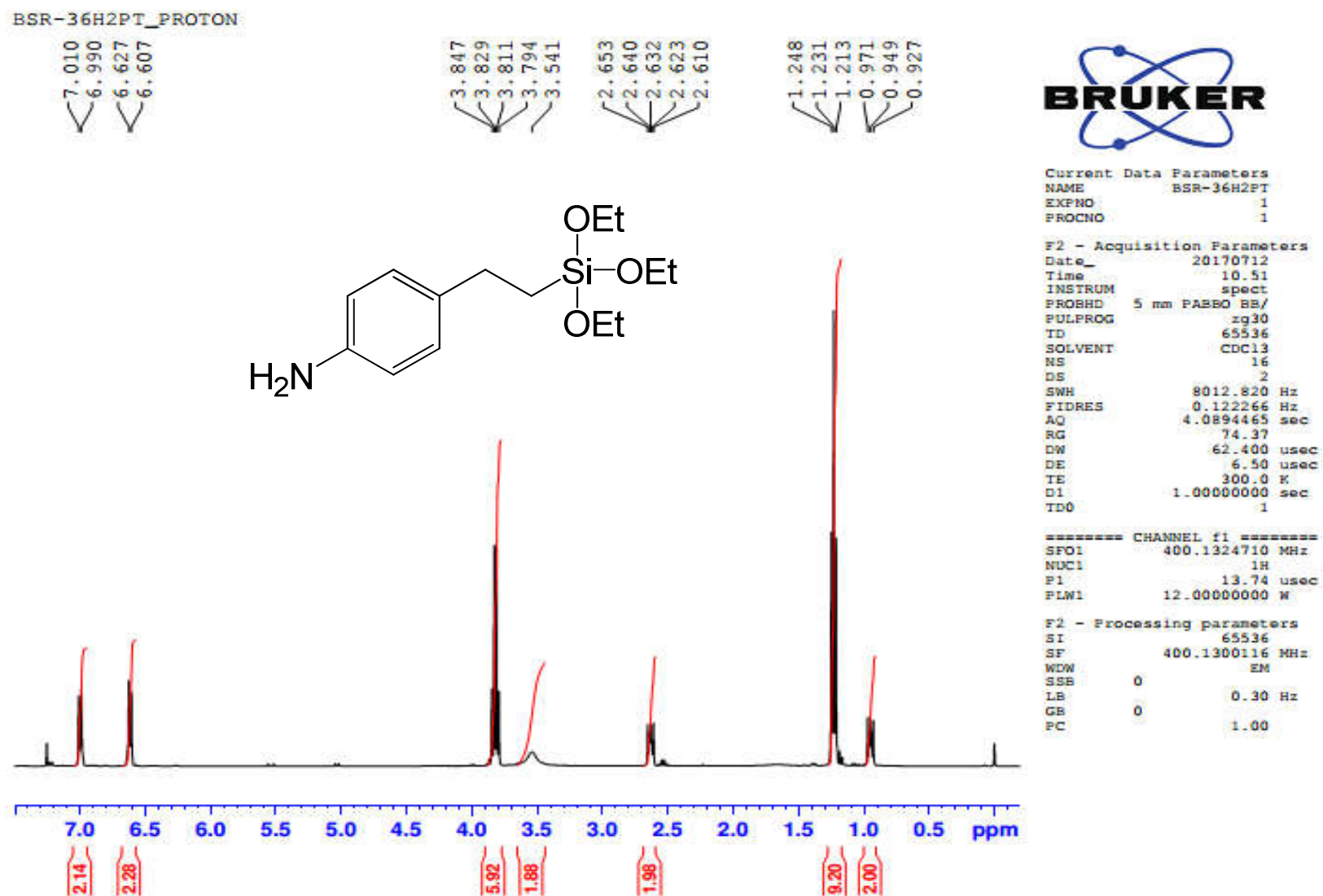
===== GRADIENT CHANNEL =====
GFM1[1] SHG10.100
GFM1[2] SHG10.100
GFM1[3] SHG10.100
GF21 31.00 %
GF22 31.00 %
GF23 31.00 %
P16 1000.00 usec

F2 - Processing parameters
SI 32768
SF 100.6127485 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

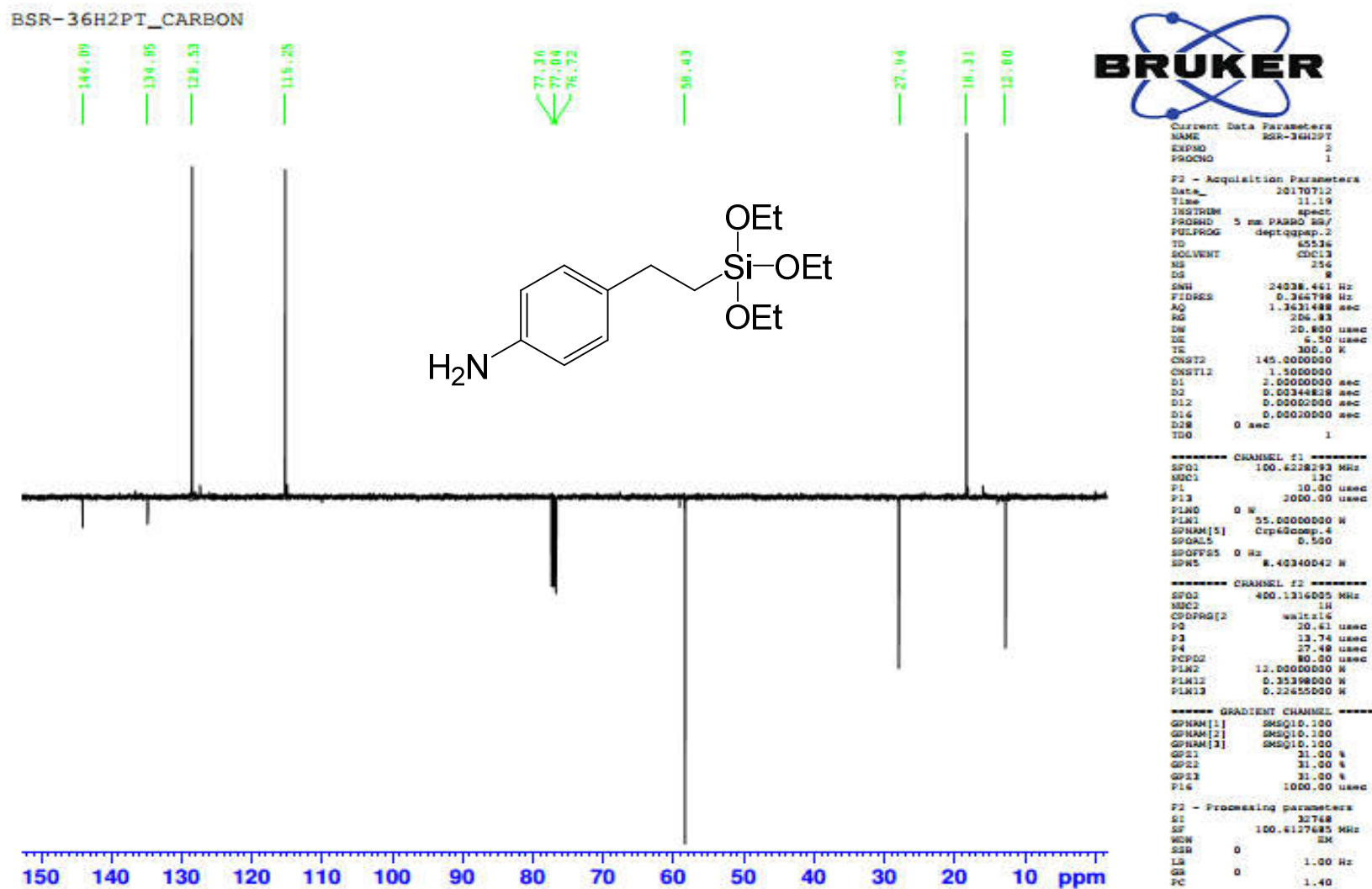
4-[3-(triethoxysilyl)propoxy]piperidine (**5**) – HR-ESIMS [M+Na]⁺ Calculated 301.1442; Observed 301.1457.



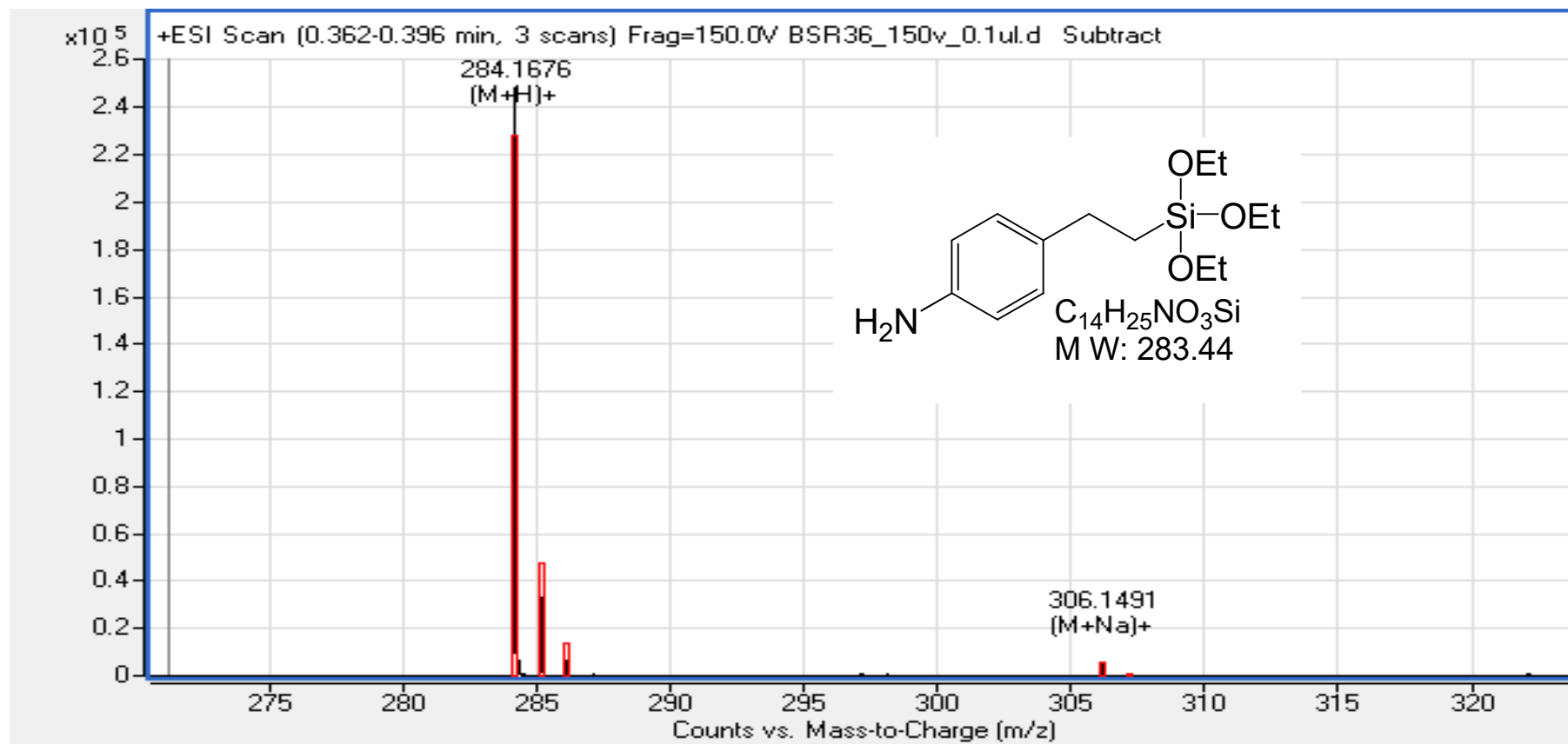
3-[3-(triethoxysilyl)propoxy]piperidine (**6**) – ^1H -NMR (CDCl_3 , 400 MHz)



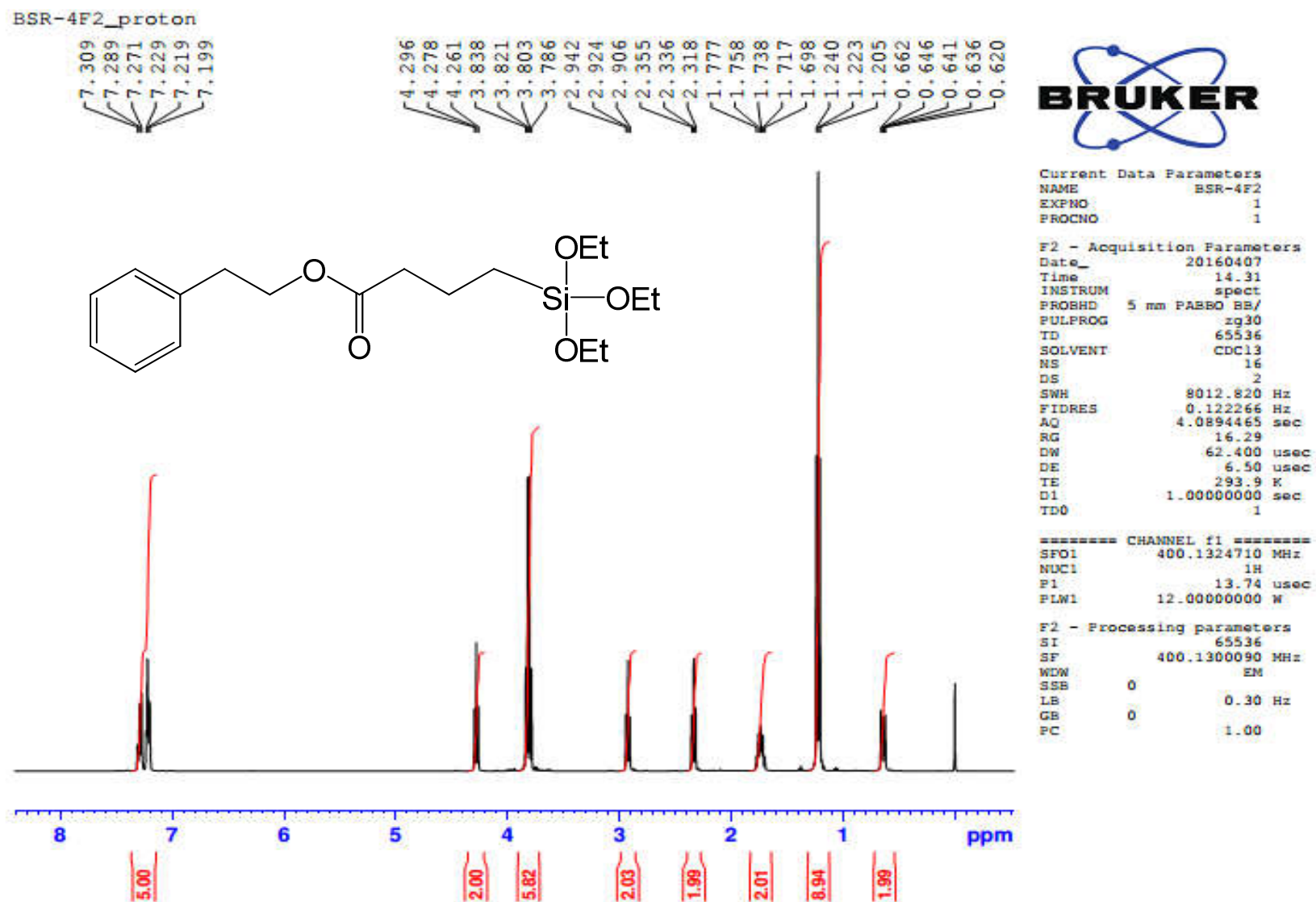
3-[3-(triethoxysilyl)propoxy]piperidine (6) – ^{13}C -NMR (CDCl_3 , 100 MHz)



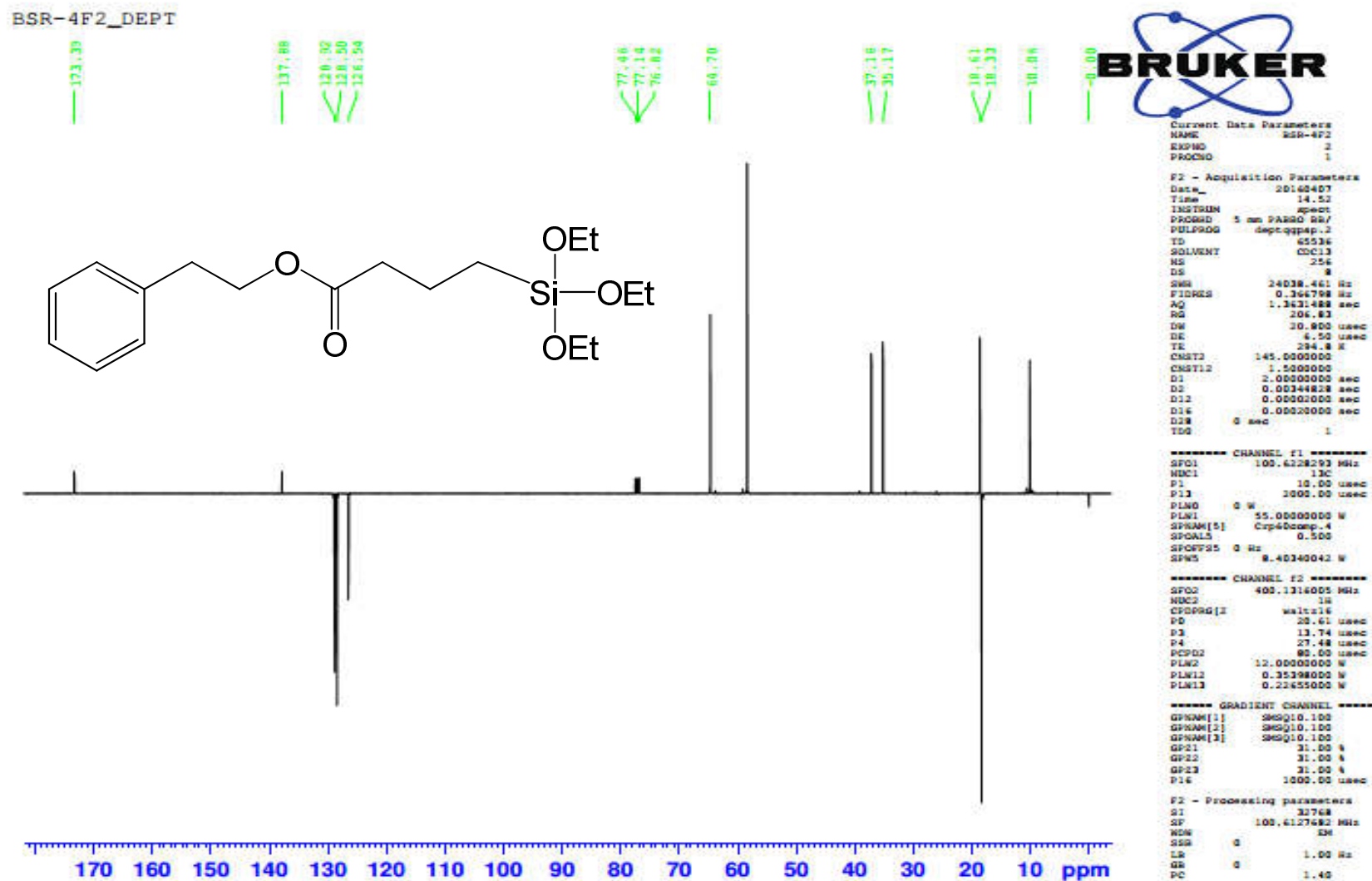
3-[3-(triethoxysilyl)propoxy]piperidine (**6**) – HR-ESIMS $[M+H]^+$ Calculated 284.1676; Observed 284.1676.



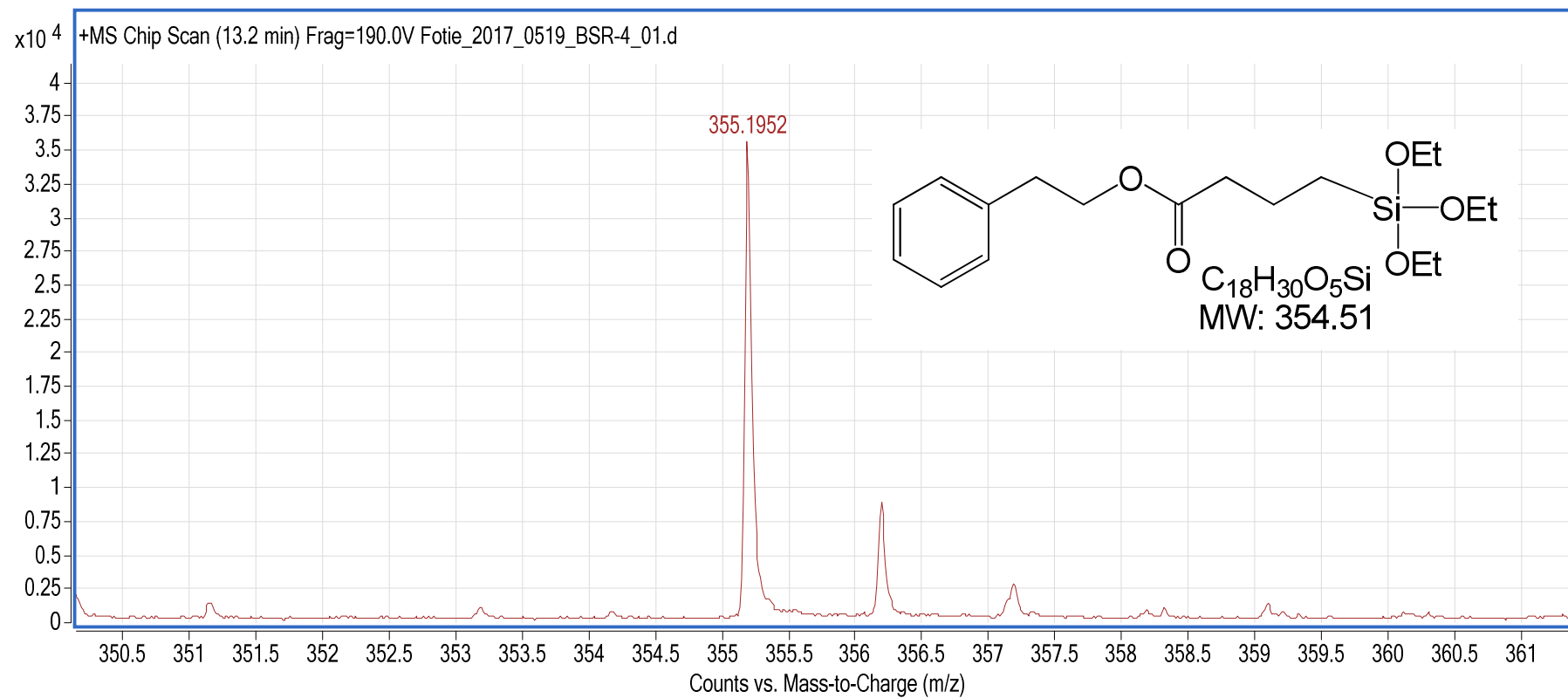
Phenethyl 4-(triethoxysilyl)butanoate (**7**) – ^1H -NMR (CDCl_3 , 400 MHz)



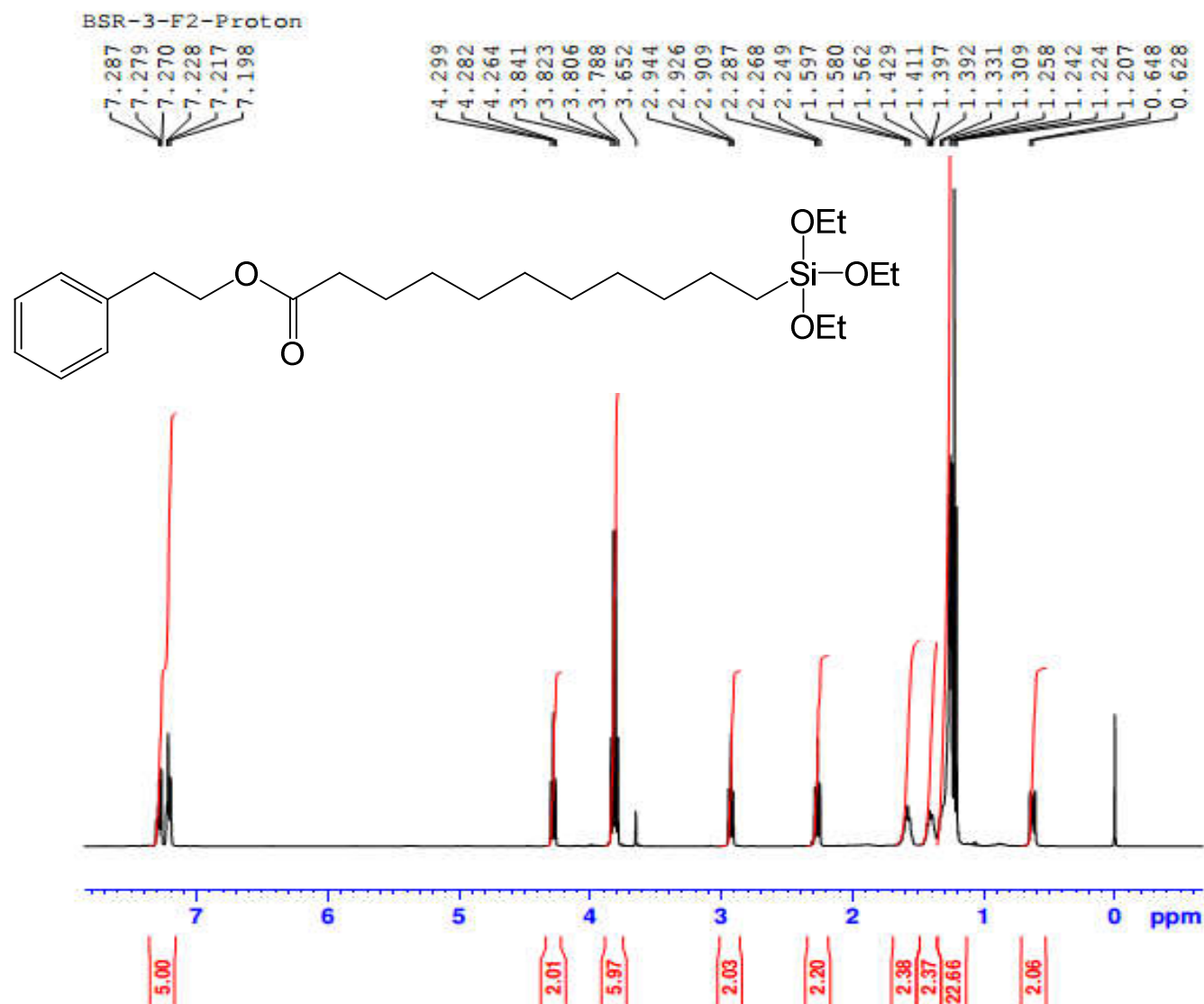
Phenethyl 4-(triethoxysilyl)butanoate (**7**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



Phenethyl 4-(triethoxysilyl)butanoate (**7**) – HR-ESIMS [M+H]⁺ Calculated 355.1935; Observed 355.1952.



Phenethyl 11-(triethoxysilyl)undecanoate (**8**) – ^1H -NMR (CDCl_3 , 400 MHz)



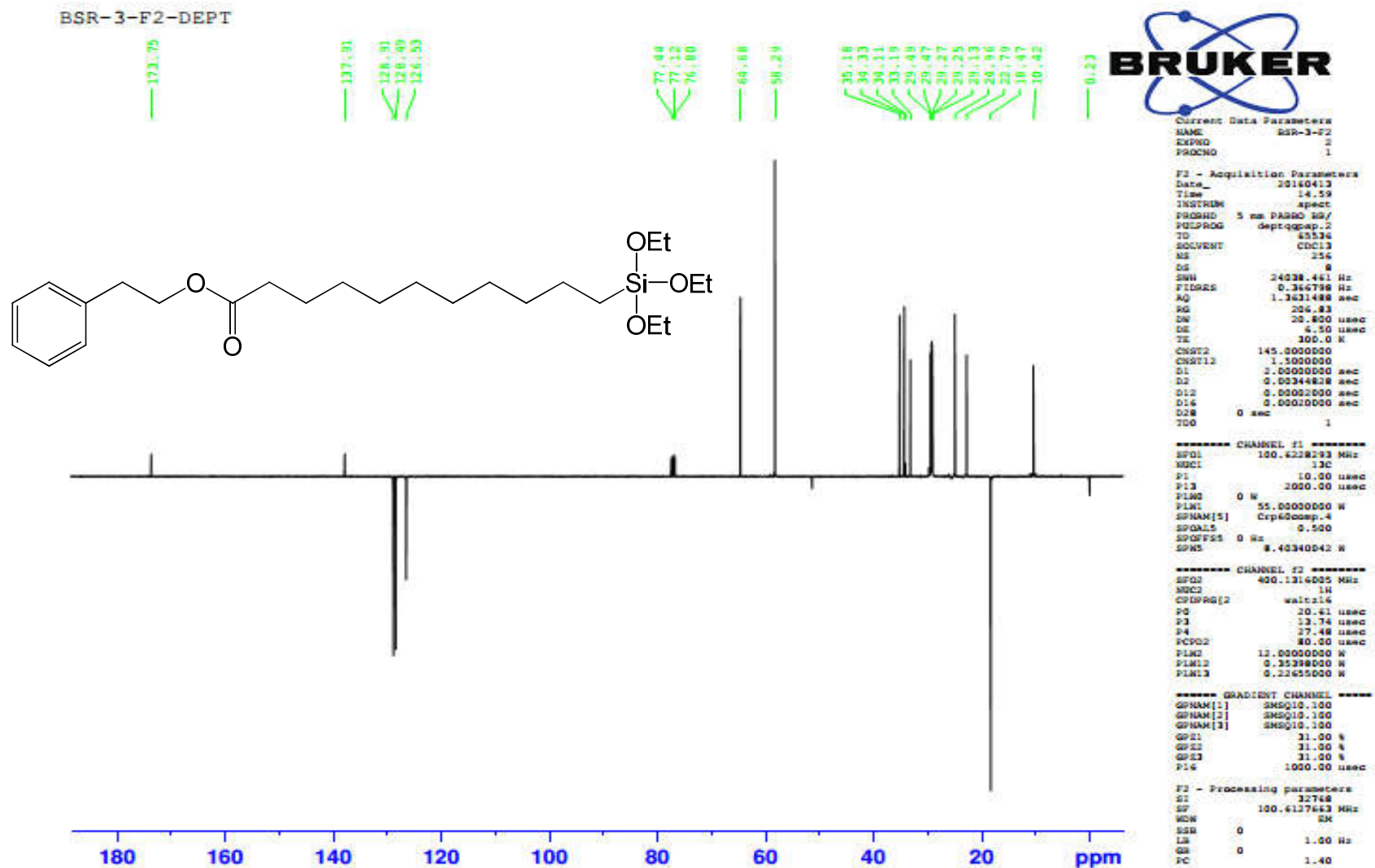
Current Data Parameters
 NAME BSR-3-F2
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20160413
 Time 14.39
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl_3
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 16.29
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 TD0 1

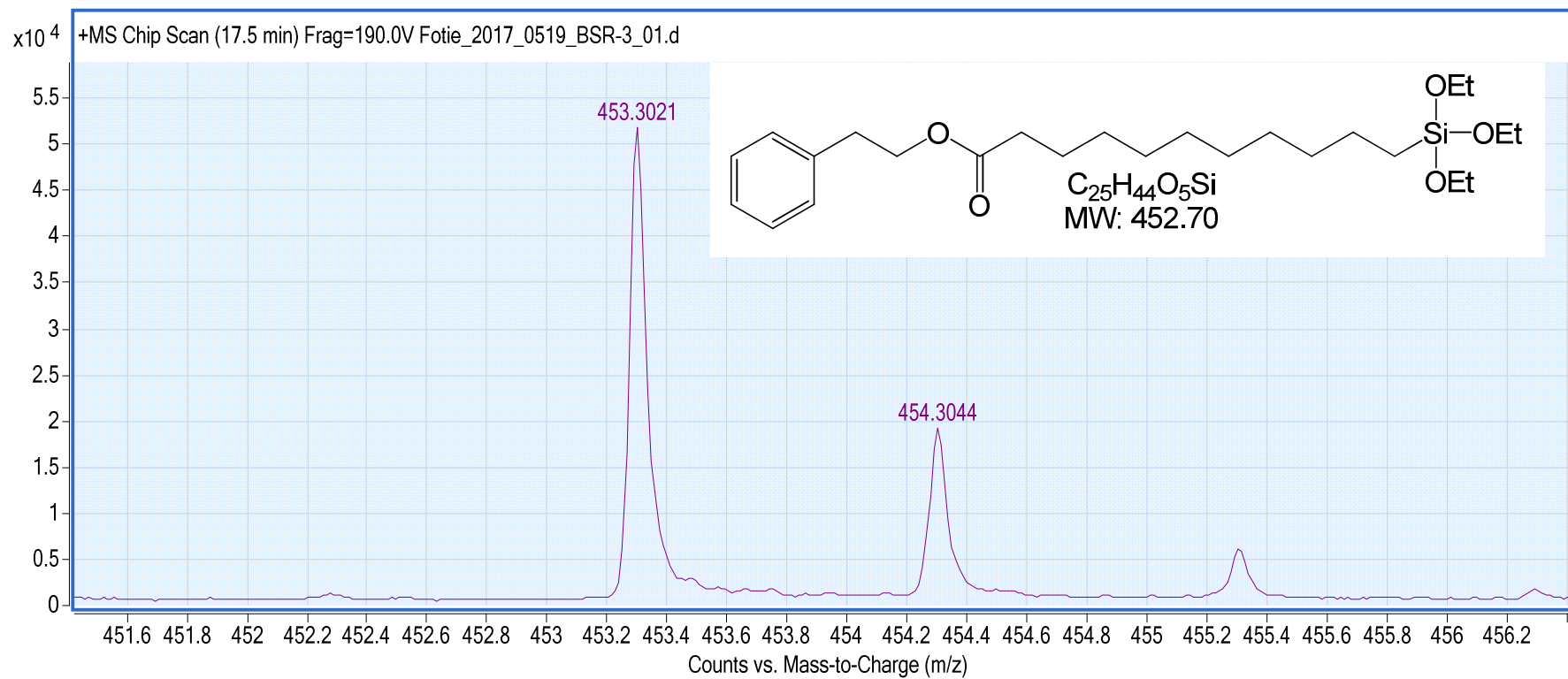
===== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 ^1H
 P1 13.74 usec
 PLW1 12.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300081 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

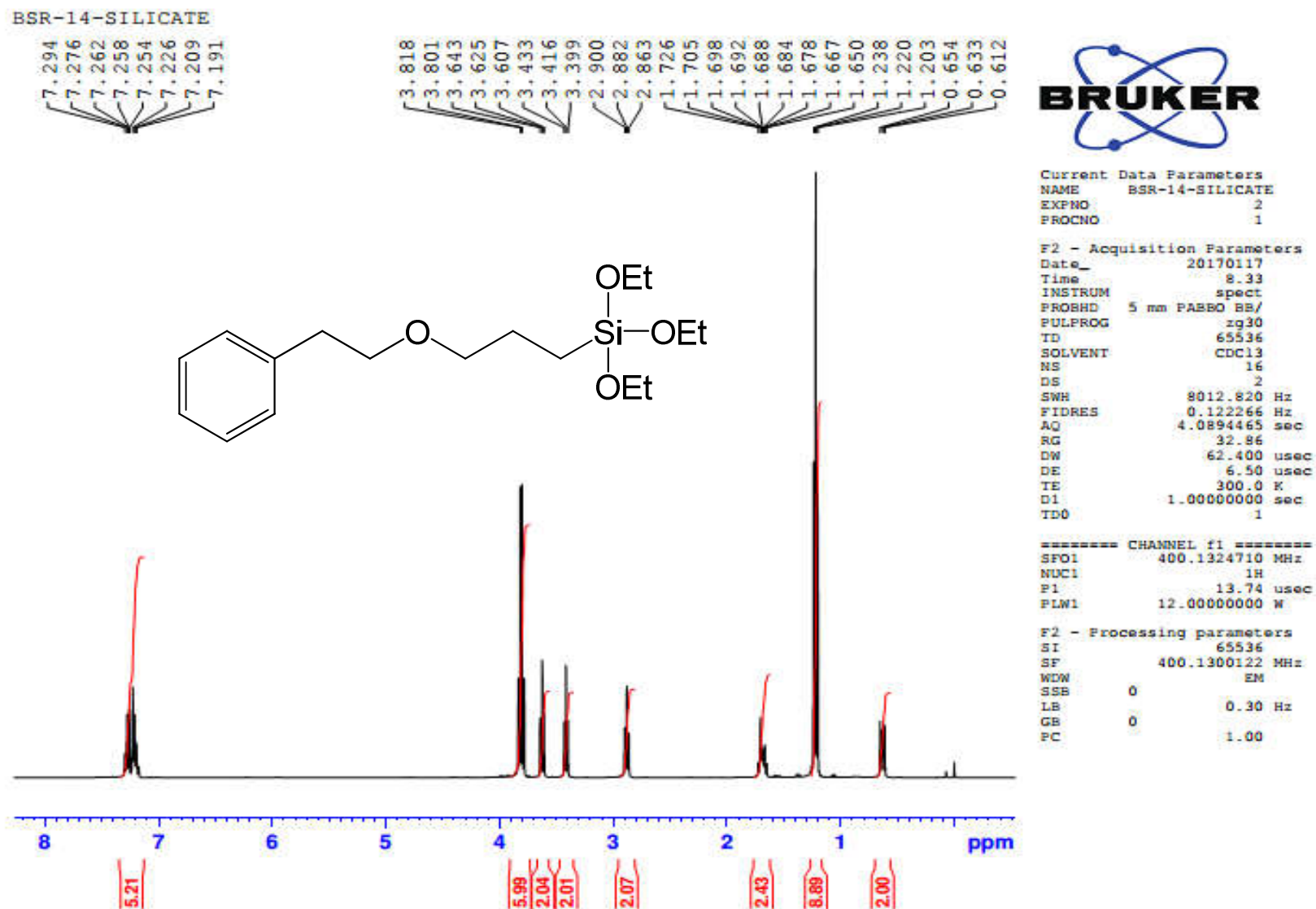
Phenethyl 11-(triethoxysilyl)undecanoate (**8**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



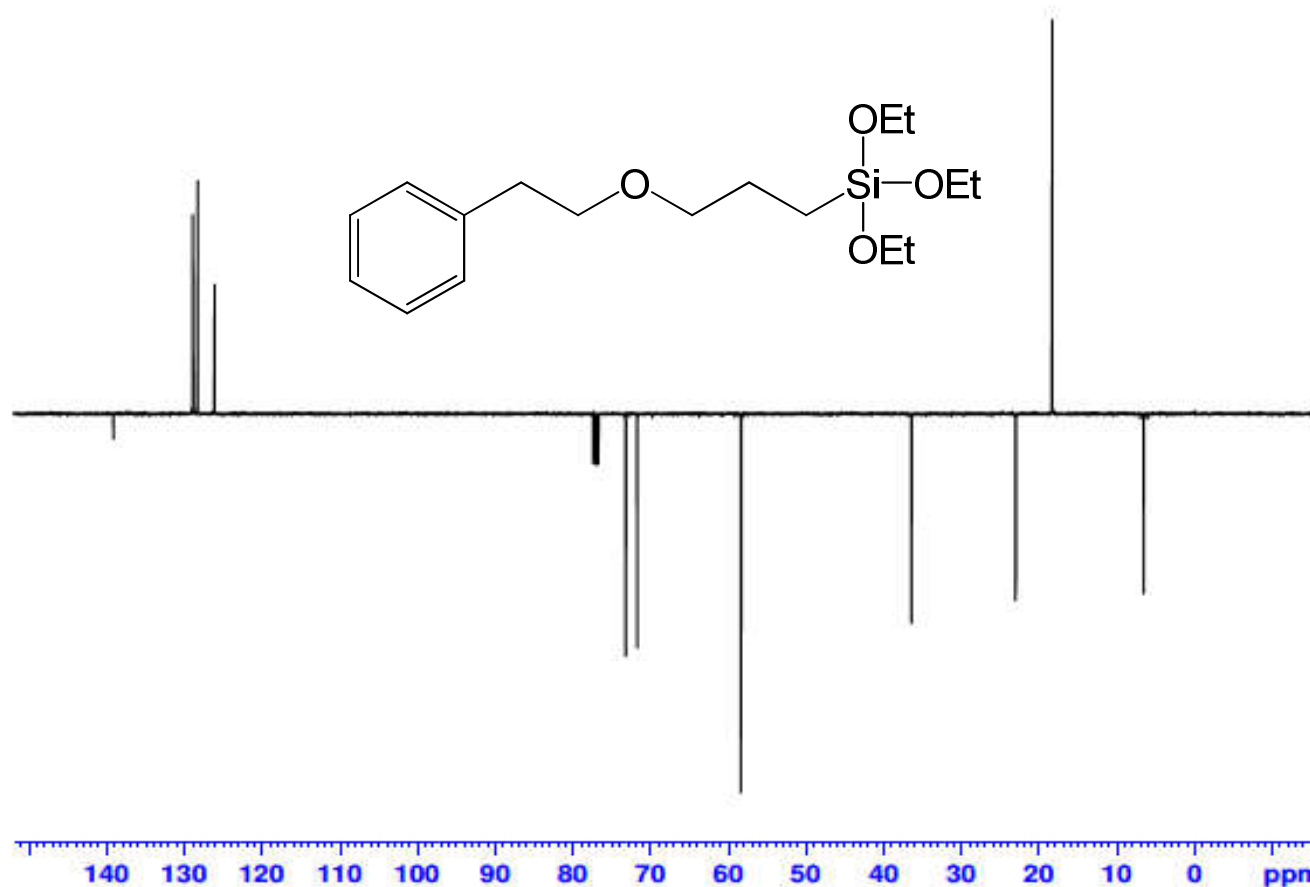
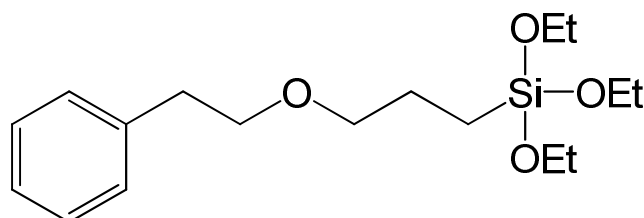
Phenethyl 11-(triethoxysilyl)undecanoate (**8**) – HR-ESIMS [M+H]⁺ Calculated 453.3031; Observed 453.3021.



Triethoxy(3-phenethoxypropyl)silane (**9**) – ^1H -NMR (CDCl_3 , 400 MHz)



27 | Page



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Current Data Parameters
NAME      RSR-14-SILICATE-CARBON
EXPNO      1
PROCNO     1
```

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F2 - Acquisition Parameters
Date_          20170117
Time           9.10
INSTRUM        spect
PROCNO         5   nm FANGNO 88/
PULPROG        zgpg30     deptype 3
TD              65536
SOLVENT         CDCl3
NS              256
DS              4
SWH             34038.461  Hz
FIDRES         0.366798
AQ             1.2631488  sec
RG              206.81
SD              30.800
DE              6.50
TE              300.0  K
CNS27         145.0000000
CSG12          1.5000000
D1              2.0000000  sec
D2              0.00344828  sec
D12             0.0000000  sec
D13             0.0000000  sec
D14             0.0000000  sec
D15             0  sec
TD0             1

```

```

===== CHANNEL F1 =====
SFO1      100.6228293 MHz
NDC1      13C
P1        10.00      used
P13       1000.00
PLN0      D W
PLN1      55.00000000 W
SPNAM[5]  Crp4dcomp.4
SFOALS    0.500
SFOFFS5   D Hz
SPW5      R.40340043 W

```

```

===== CHANNEL F2 =====
SF02      400.1316005 MHz
NDC2      18
CP0PRG[2] waitx16
P0         20.61 used
P3         13.74 used
P4         27.48 used
PCPD02    80.00 used
PLW2       12.00000000 W
PLW12      0.35398000 W
PLW13      0.22655000 W

```

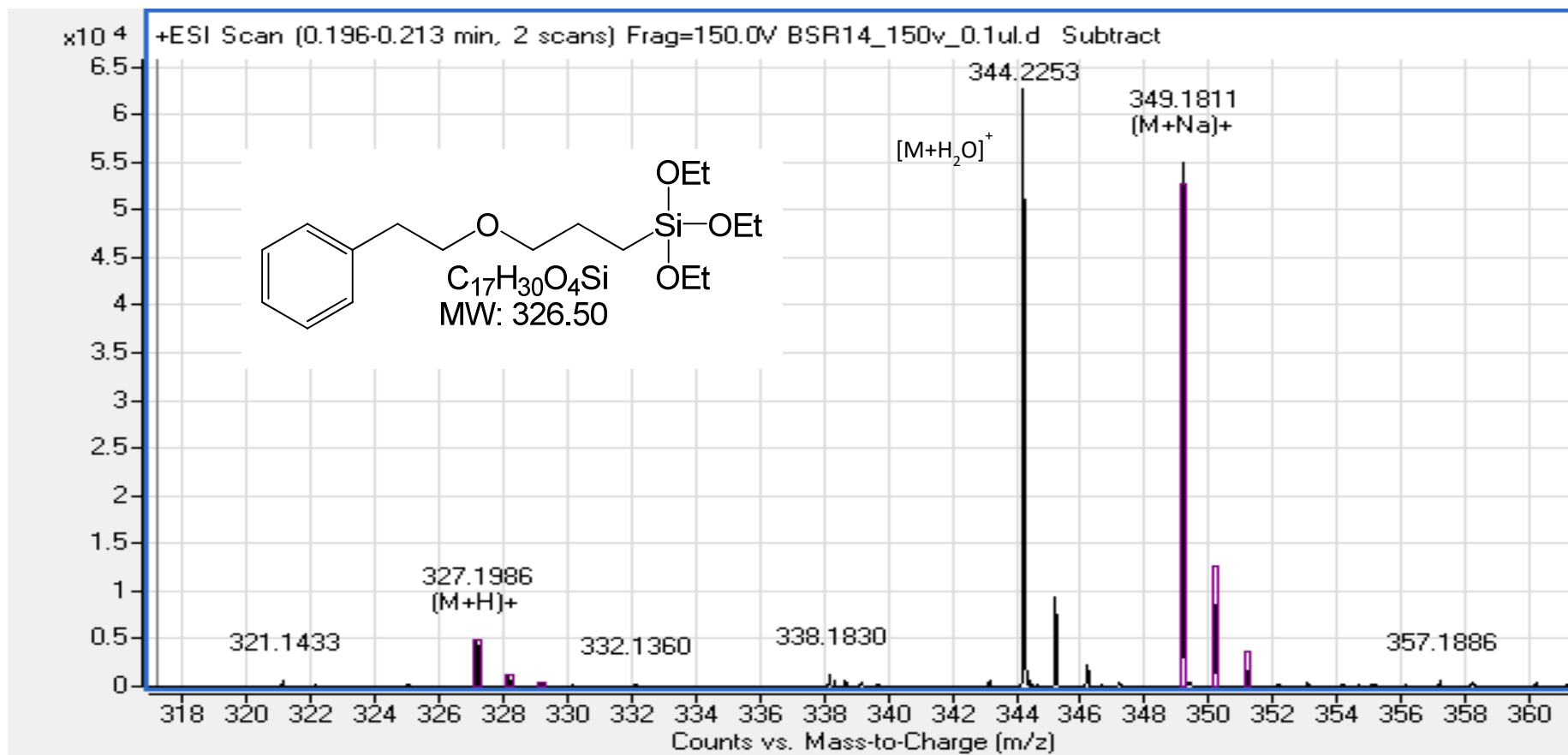
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===== GRADIENT CHANNEL =====
GPXAM[1]      SMSG010.100
GPXAM[2]      SMSG010.100
GPXAM[3]      SMSG010.100
GP21          31.00 %
GP22          31.00 %
GP23          31.00 %
P16           1000.00 msec

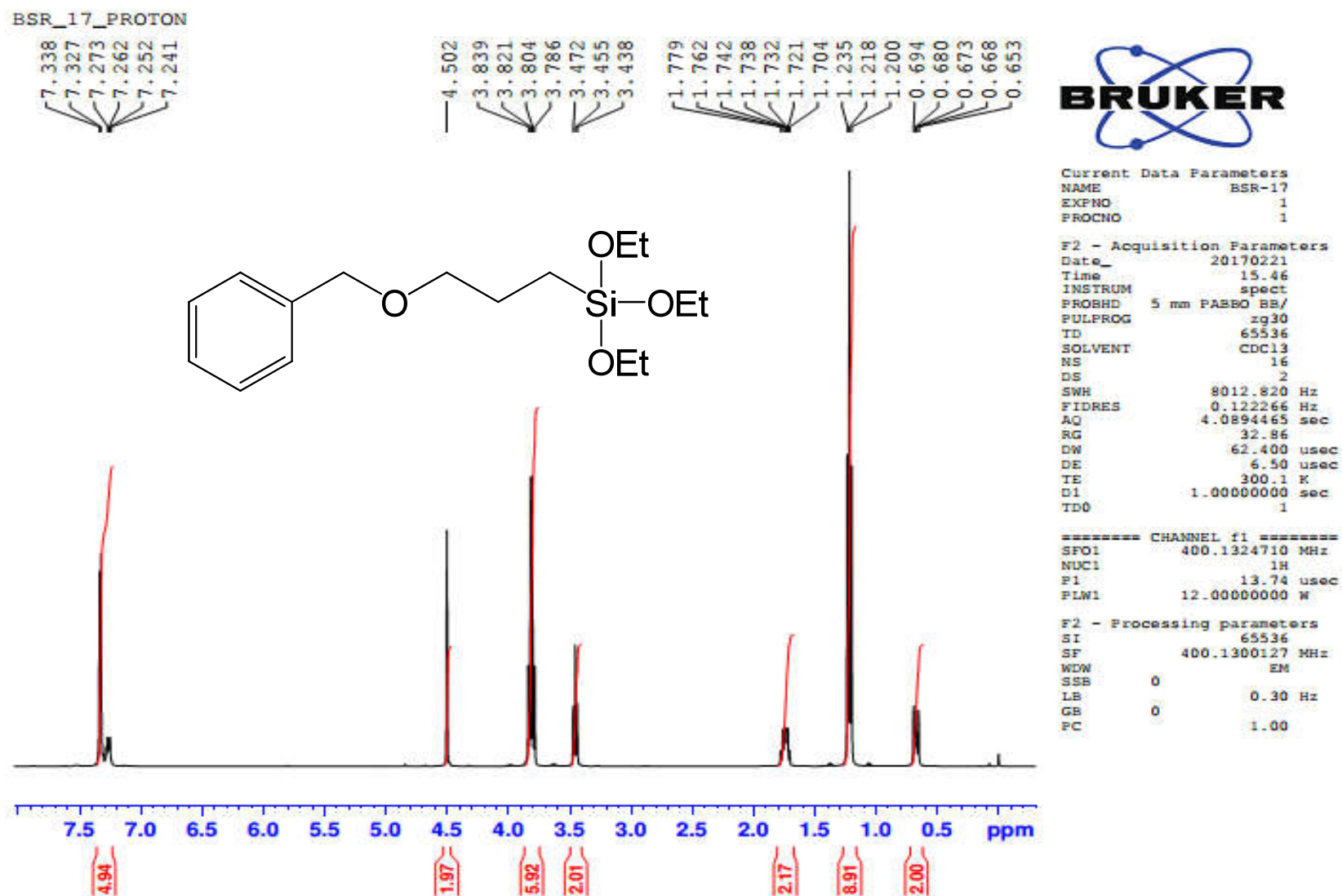
```

F2 - Processing parameters		
SI		32768
SF		100.6127685 MHz
NBW		5M
SSR	0	
LB		1.00 Hz
GB	0	
PC		1.40

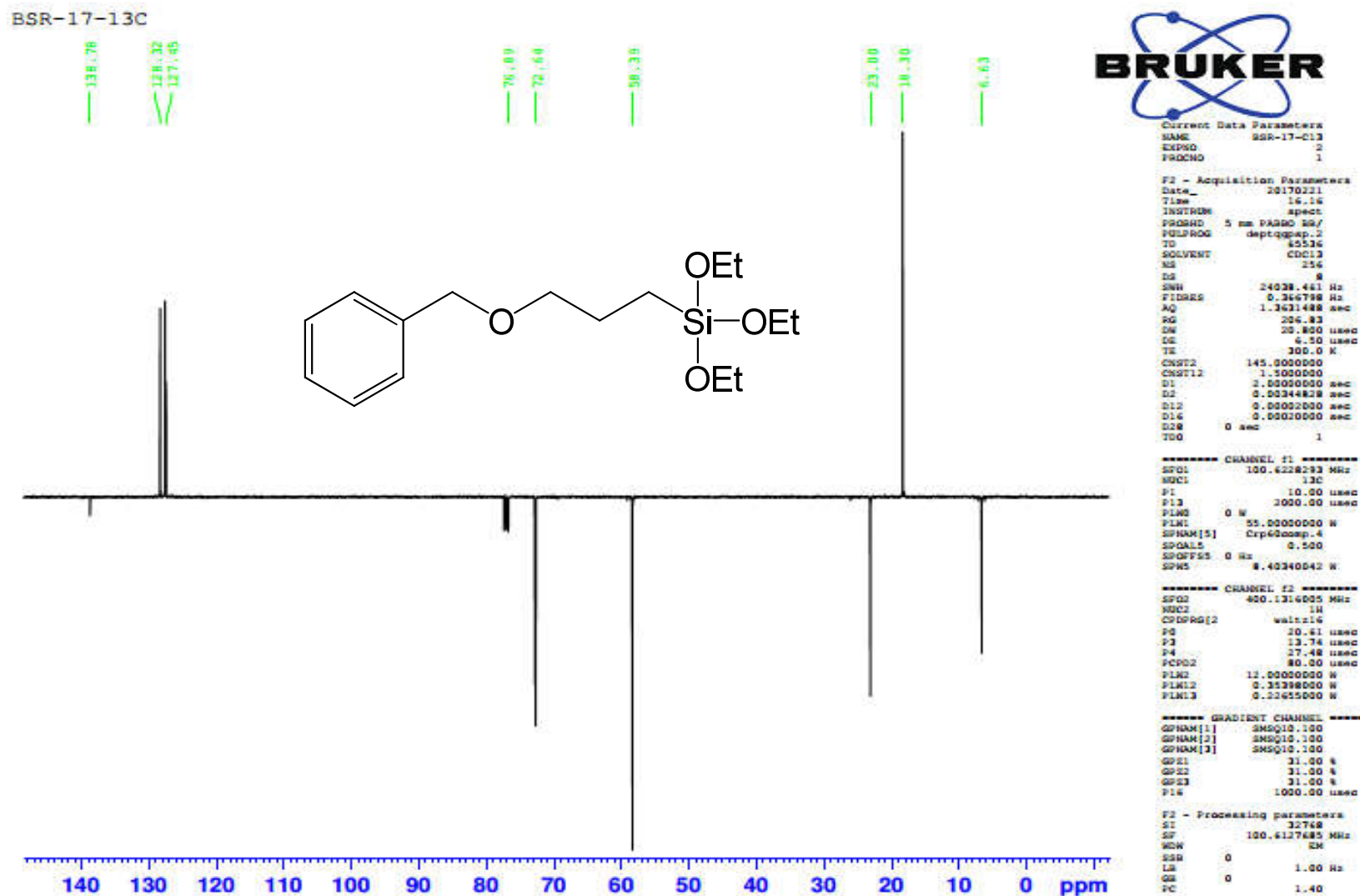
Triethoxy(3-phenethoxypropyl)silane (**9**) – HR-ESIMS $[M+Na]^+$ Calculated 349.1806; Observed 349.1811.



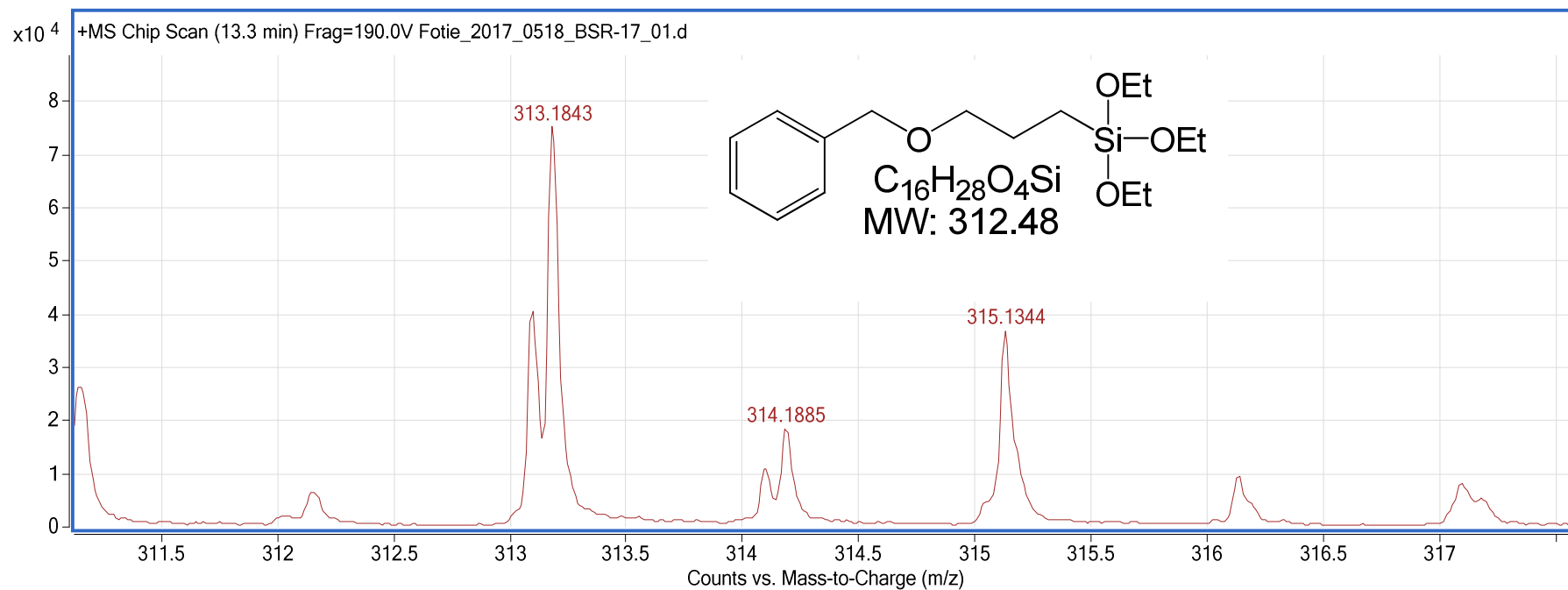
[3-(benzyloxy)propyl]triethoxysilane (**10**) – ^1H -NMR (CDCl_3 , 400 MHz)



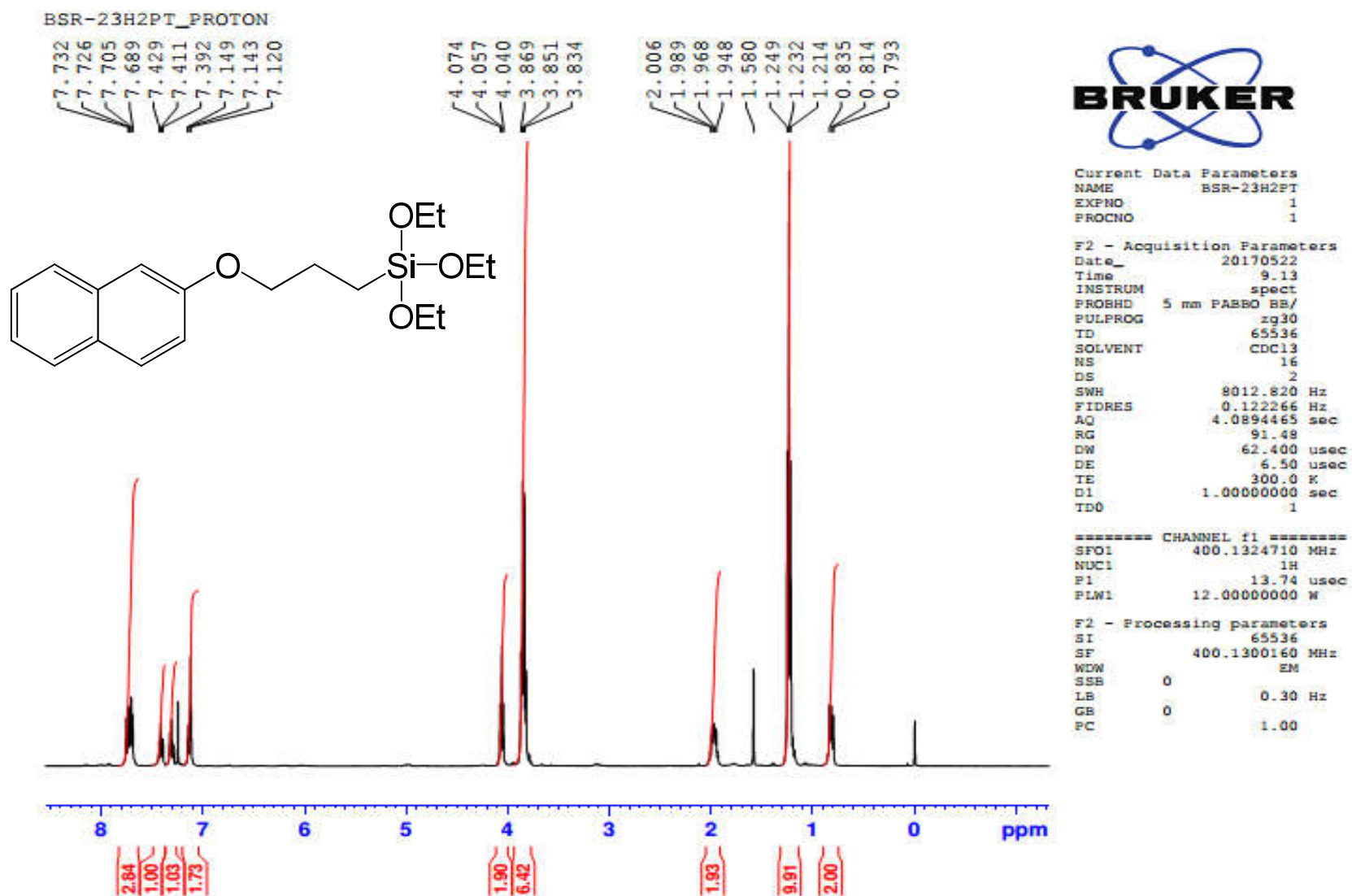
[3-(benzyloxy)propyl]triethoxysilane (**10**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



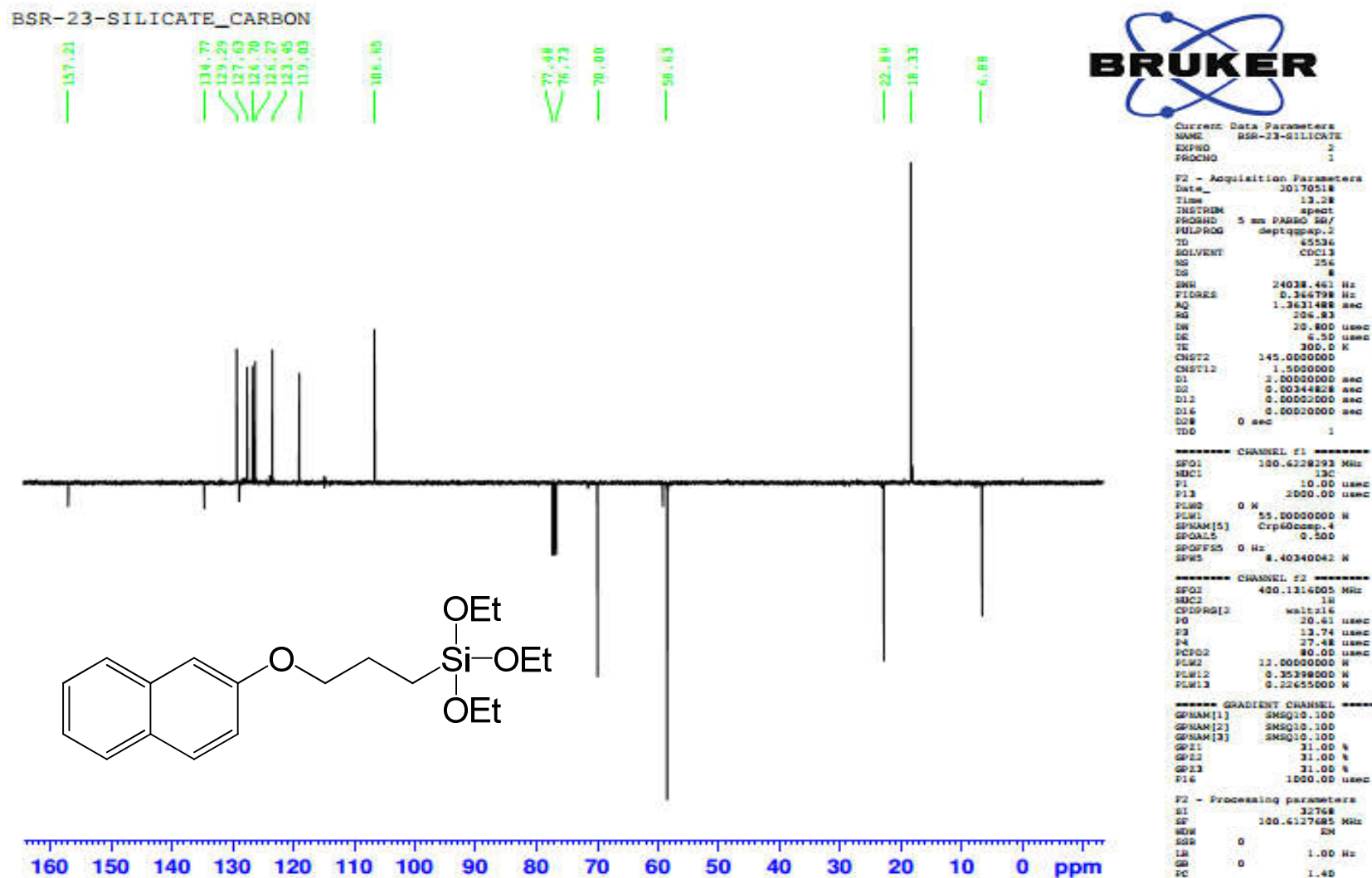
[3-(benzyloxy)propyl]triethoxysilane (**10**) – HR-ESIMS ($[M+H]^+$ Calculated 313.1830; Observed 313.1843).



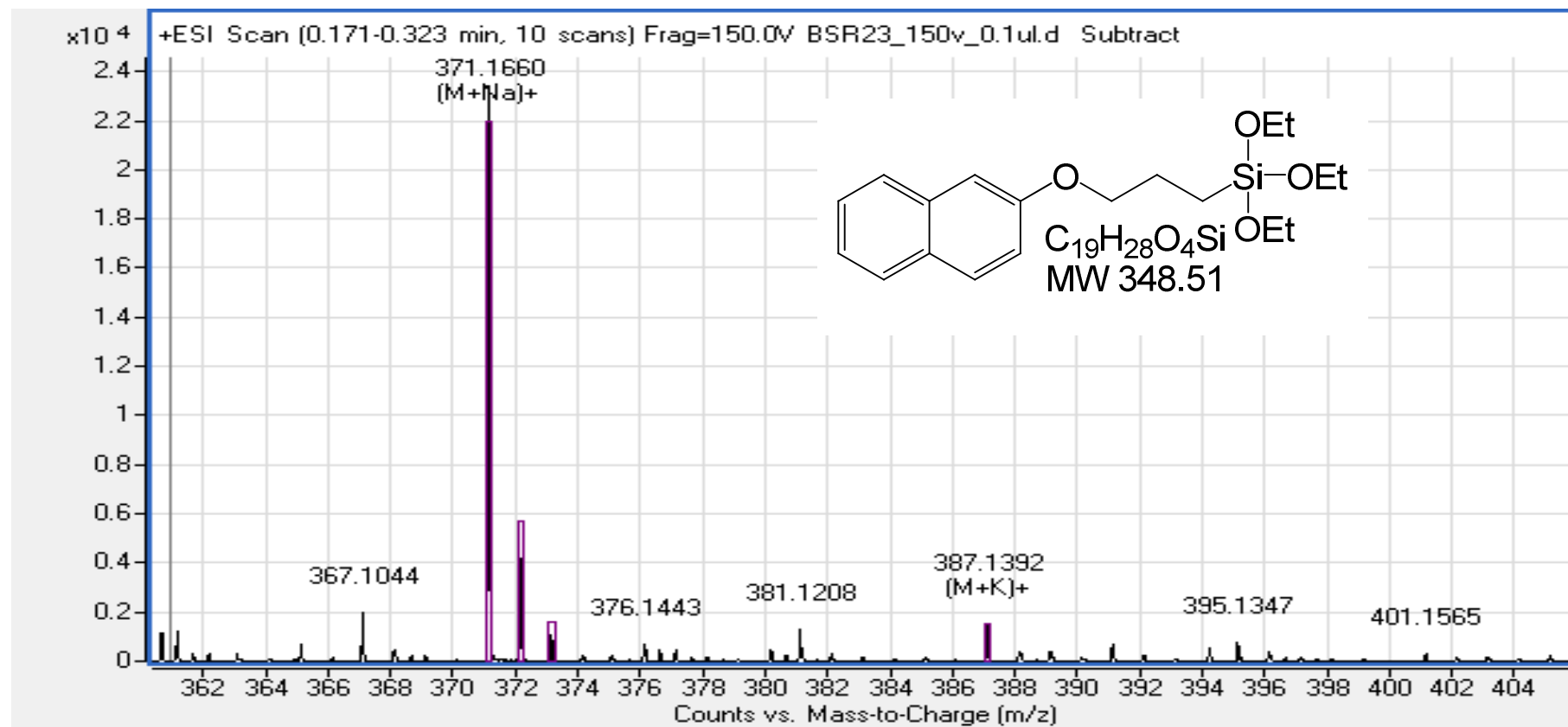
Triethoxy[3-(naphthalen-2-yloxy)propyl]silane (**11**) – ^1H -NMR (CDCl_3 , 400 MHz)



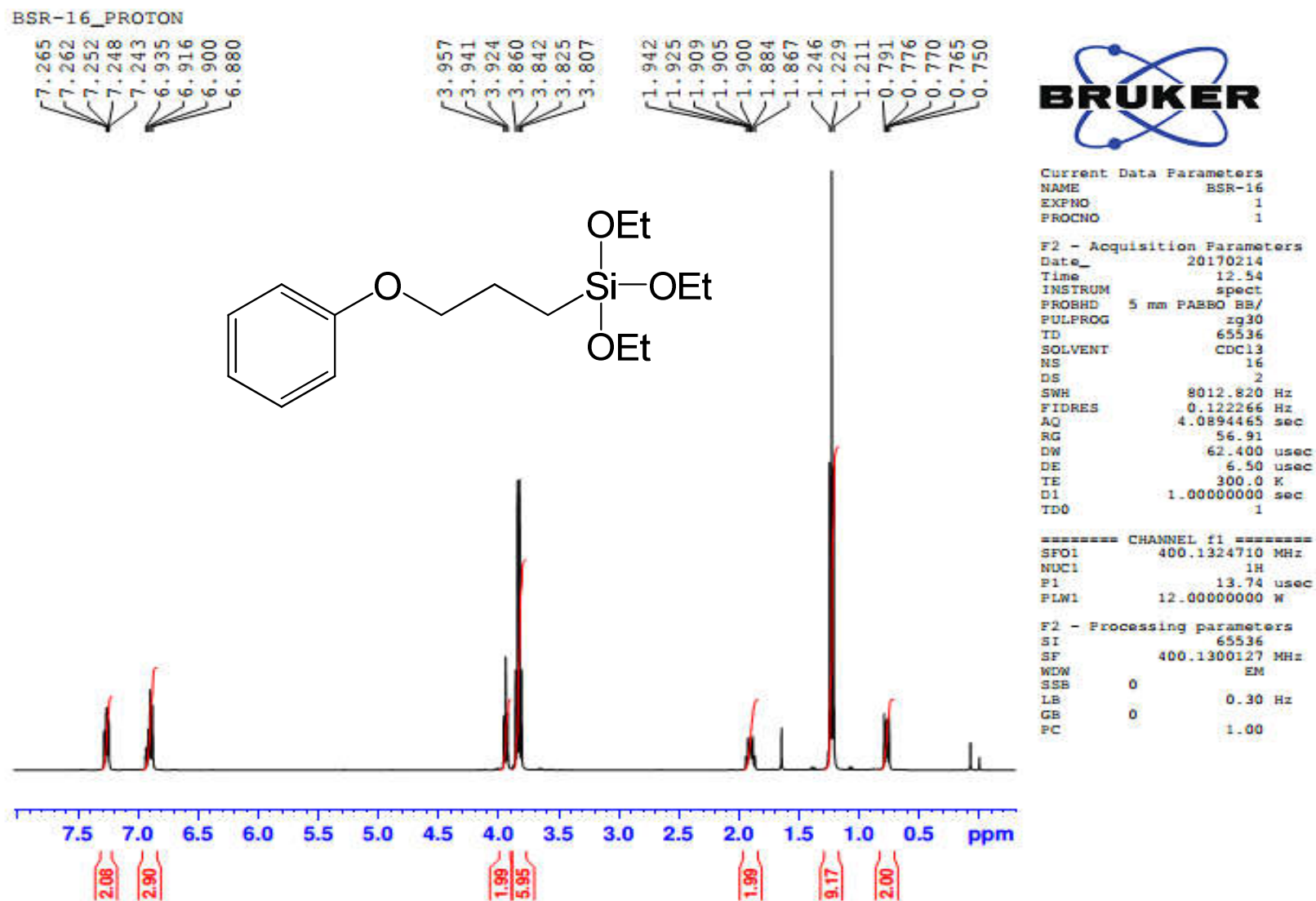
Triethoxy[3-(naphthalen-2-yloxy)propyl]silane (**11**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



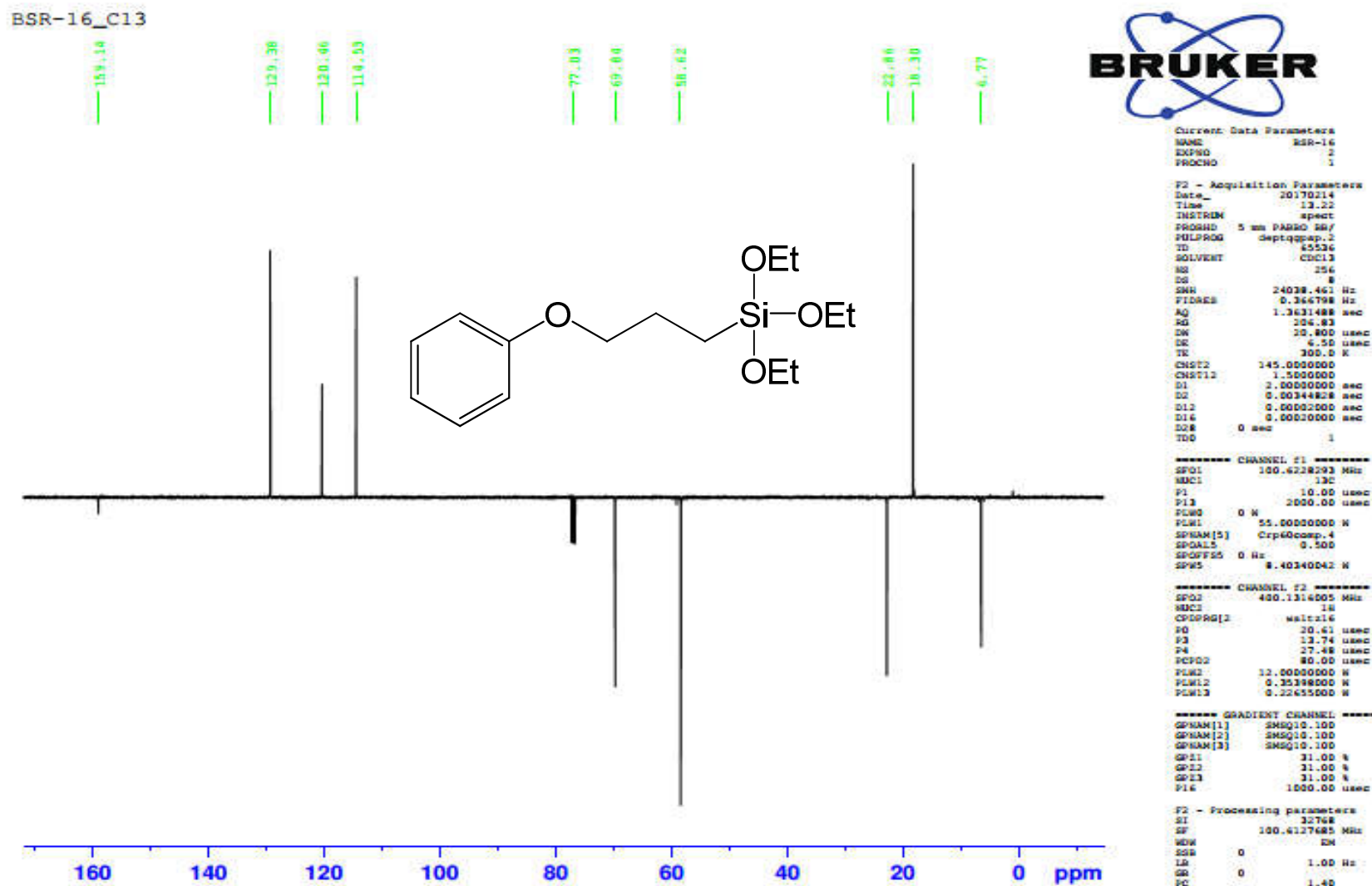
Triethoxy[3-(naphthalen-2-yloxy)propyl]silane (**11**) – HR-ESIMS $[M+Na]^+$ Calculated 371.1649; Observed 371.1660.



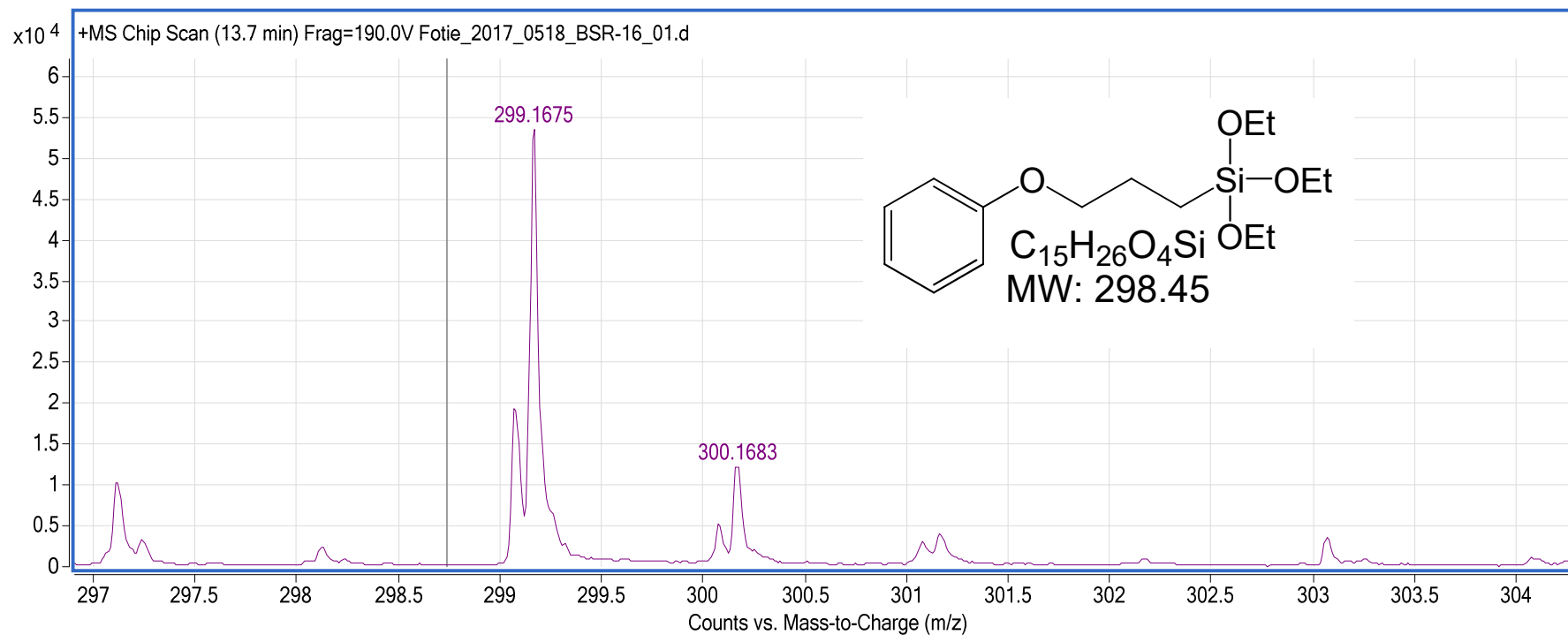
Triethoxy(3-phenoxypropyl)silane (**12a**) – ^1H -NMR (CDCl_3 , 400 MHz)



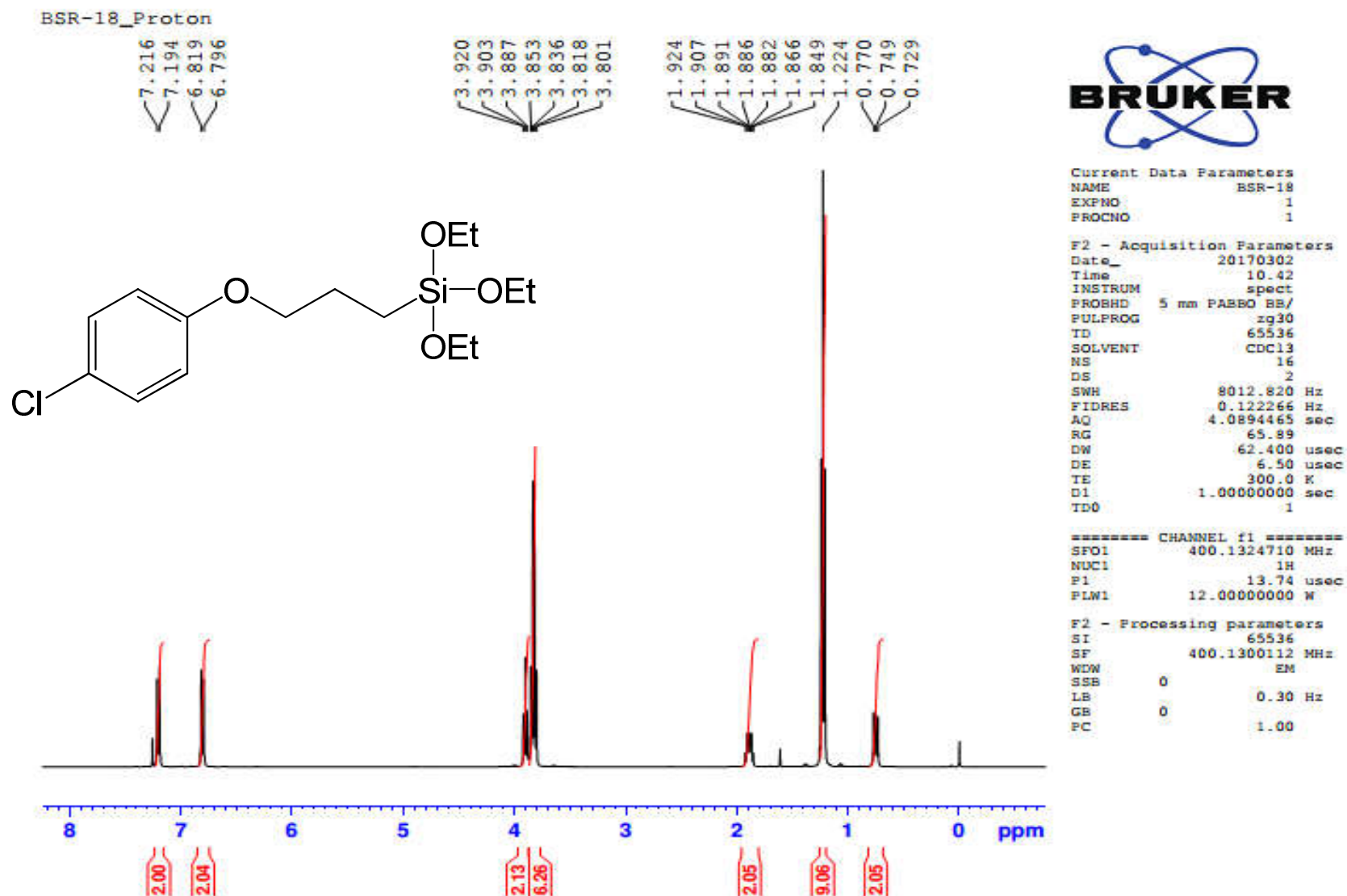
Triethoxy(3-phenoxypropyl)silane (**12a**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



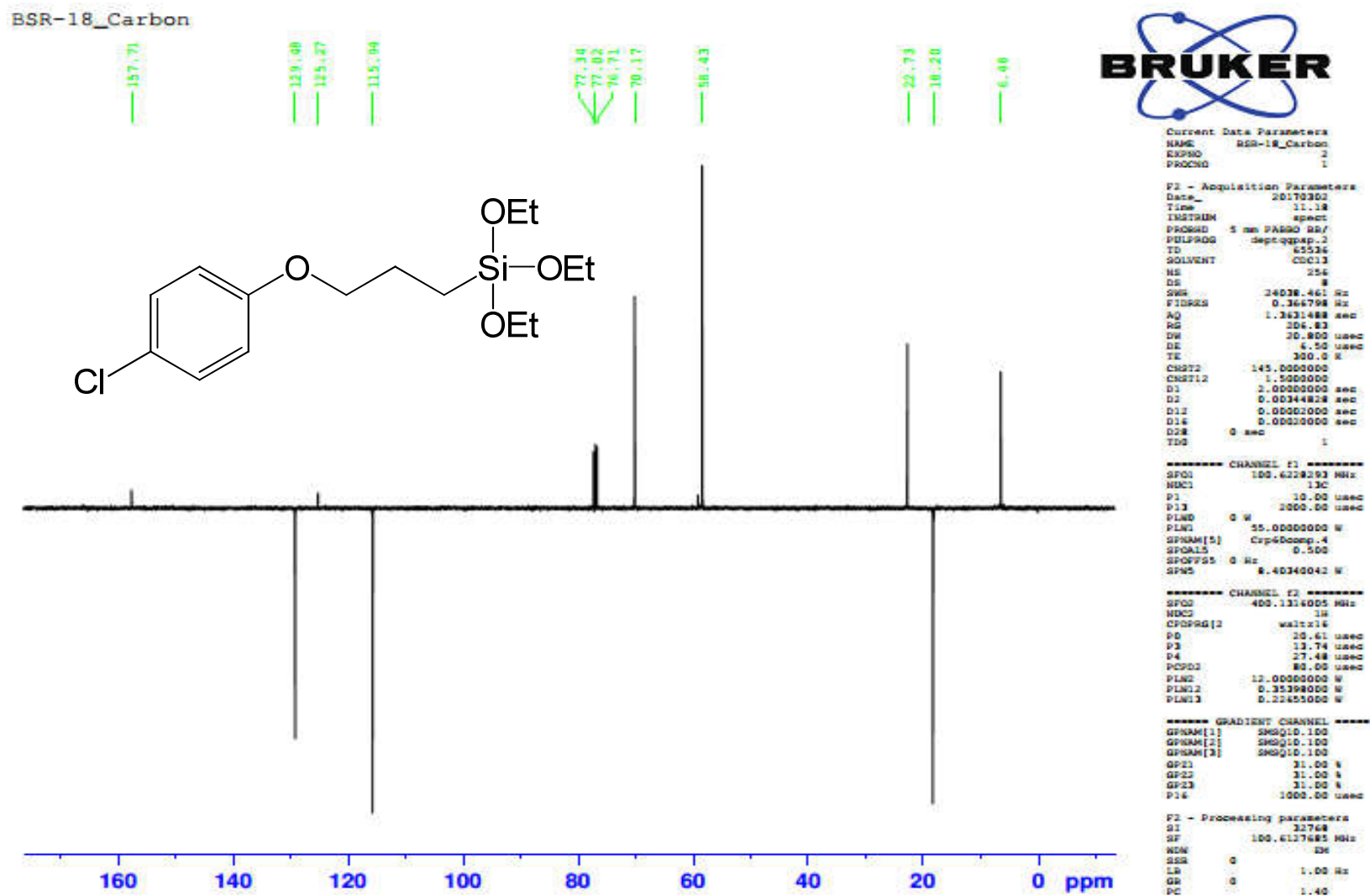
Triethoxy(3-phenoxypropyl)silane (**12a**) – HR-ESIMS [M+H]⁺ Calculated 299.1673; Observed 299.1675.



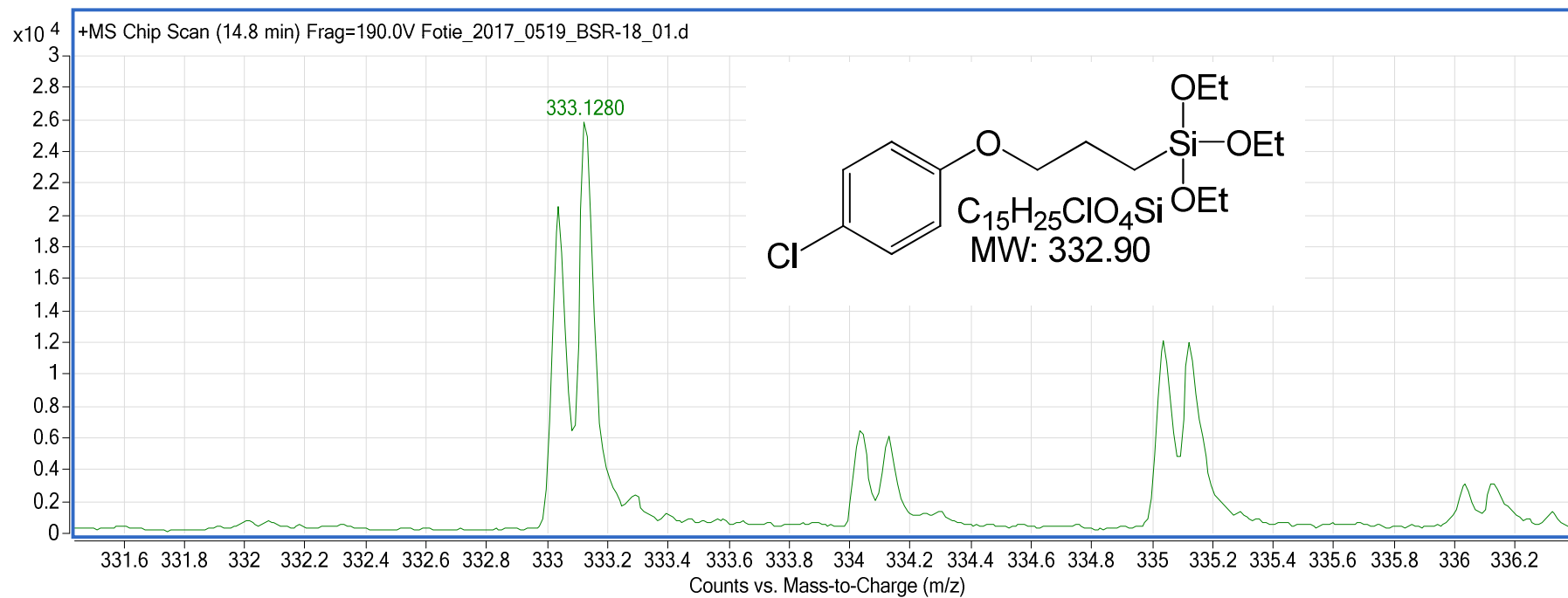
[3-(4-chlorophenoxy)propyl]triethoxysilane (**12b**) – ^1H -NMR (CDCl_3 , 400 MHz)



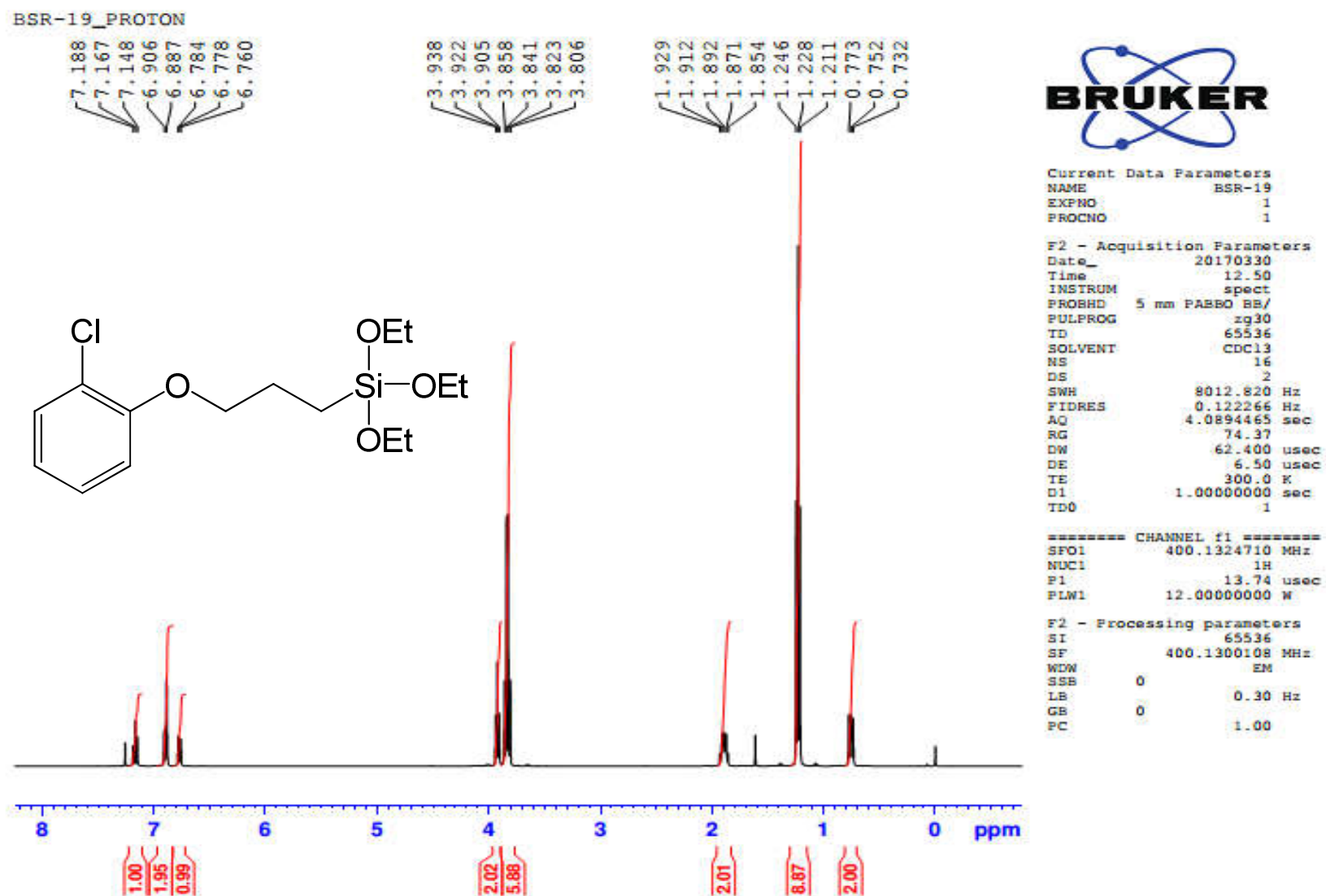
[3-(4-chlorophenoxy)propyl]triethoxysilane (**12b**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



[3-(4-chlorophenoxy)propyl]triethoxysilane (**12b**) – HR-ESIMS [M+H]⁺ Calculated 333.1283; Observed 333.1280.

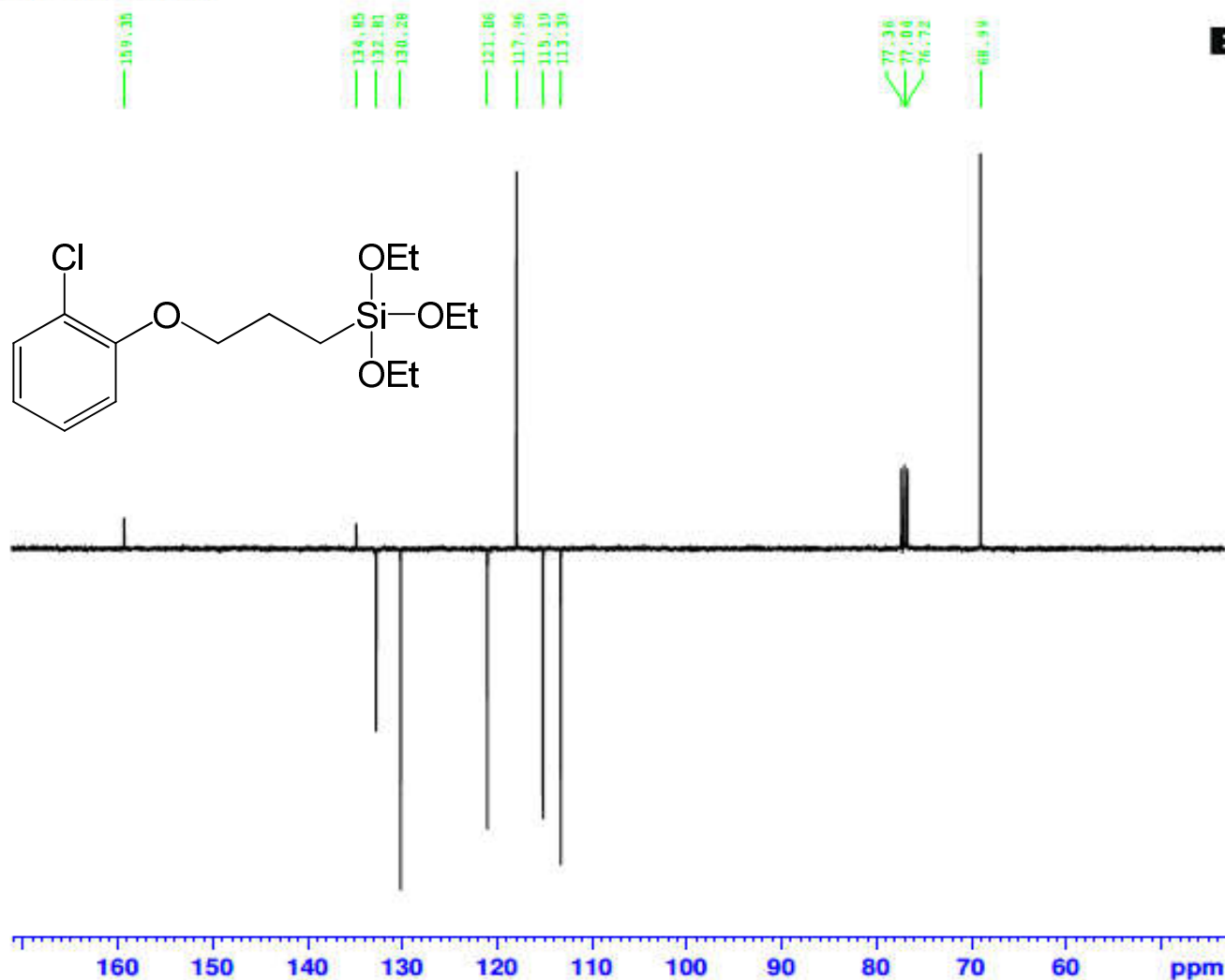


[3-(2-chlorophenoxy)propyl]triethoxysilane (**12c**) – ^1H -NMR (CDCl_3 , 400 MHz)



[3-(2-chlorophenoxy)propyl]triethoxysilane (**12c**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-19A-CARBON



Current Data Parameters
NAME BSR-19A-Carbon
EXPNO 1
PROCNO 2

F2 - Acquisition Parameters
Date_ 20170329
Time 14.37
INSTRUM spect
PROBHD 5 mm PARBO BB/
PULPROG zgpg30
TD 65536
SOLVENT cdcl3
NS 256
DS 8
SWH 24038.461 Hz
FIDRES 0.344798 Hz
AQ 1.3631488 sec
RG 204.83
DW 20.800 usec
DE 6.50 usec
TE 300.0
CNST1 145.000000
CNST12 1.500000
D1 2.0000000 sec
D2 0.0034482 sec
D12 0.0000000 sec
D14 0.0000000 sec
D28 0 sec
TD0 1

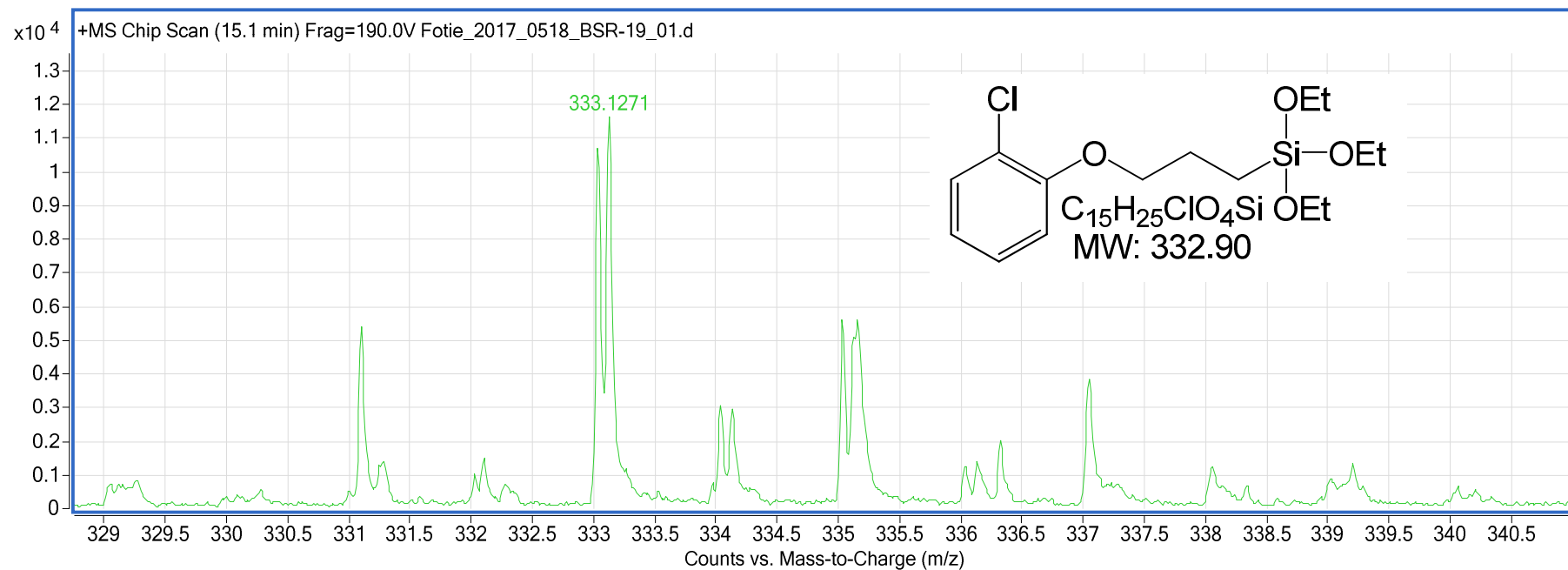
===== CHANNEL F1 =====
SFO1 100.6229293 MHz
NUC1 13C
P1 10.00 usec
PLA0 0 W
PLA1 55.0000000 W
SFOAL5 Crp6dcomp.4
SFOAL5 0.500
SFOF25 0 Hz
SFA5 8.40340042 W

===== CHANNEL F2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPOPRG2 waltz16
P0 20.61 usec
P3 13.74 usec
P4 27.48 usec
PCPD2 80.00 usec
PLA2 12.0000000 W
PLA12 0.25398000 W
PLA13 0.22655000 W

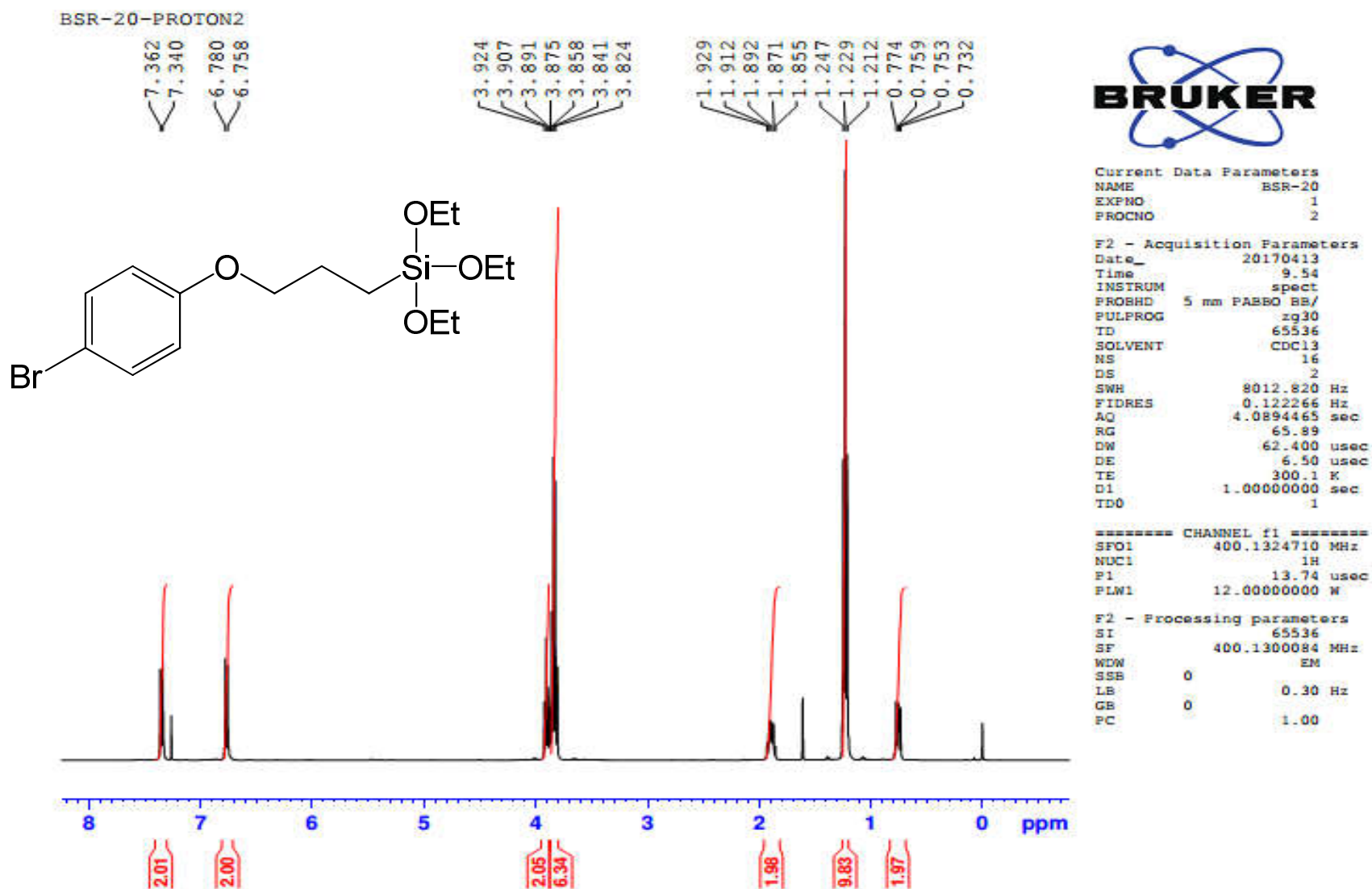
===== GRADIENT CHANNEL =====
GPRAM[1] SMO10.100
GPRAM[2] SMO10.100
GPRAM[3] SMO10.100
GP21 31.00 %
GP22 31.00 %
GP23 31.00 %
P14 1000.00 usec

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

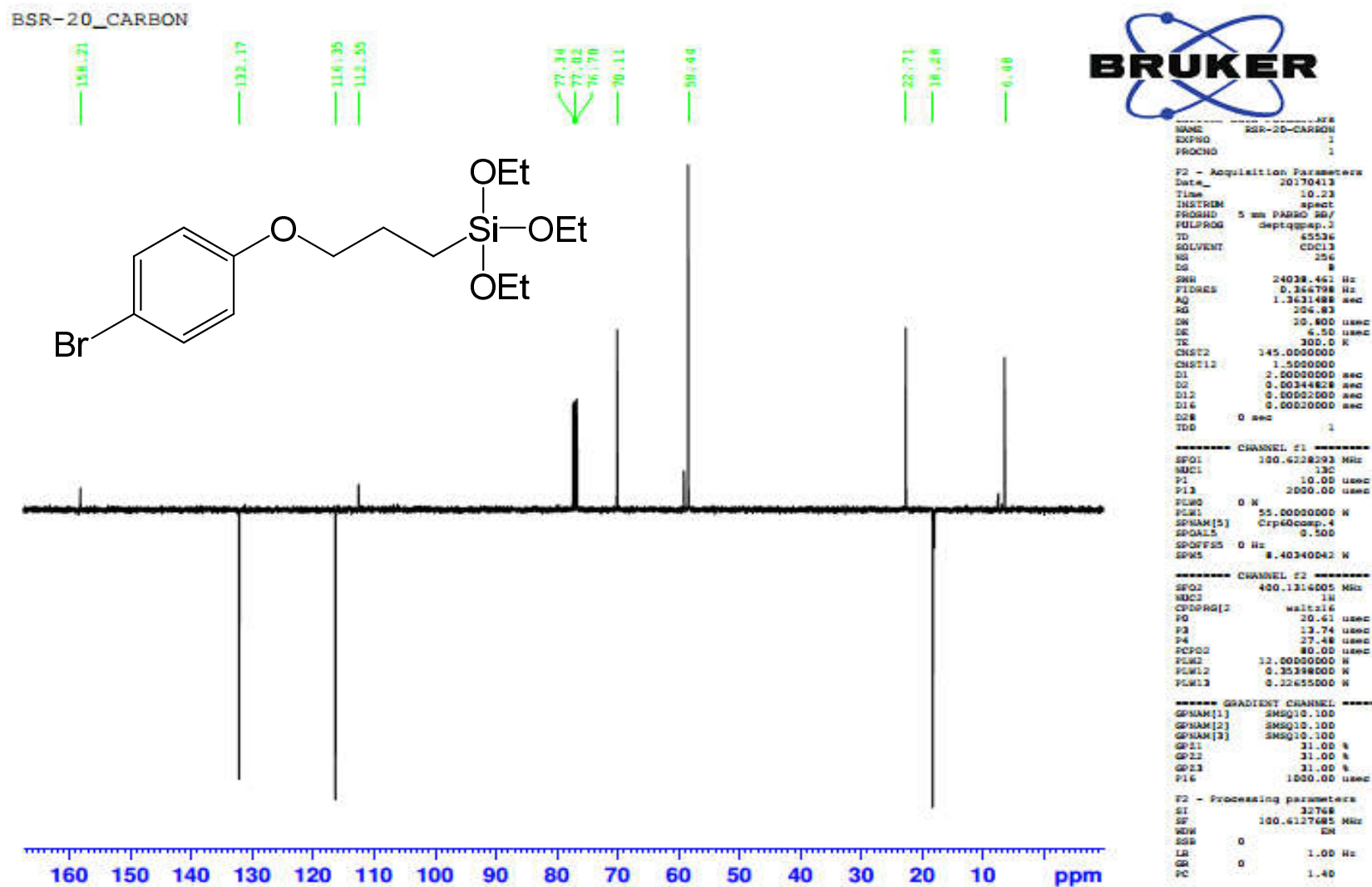
[3-(2-chlorophenoxy)propyl]triethoxysilane (**12c**) – HR-ESIMS [M+H]⁺ Calculated 333.1283; Observed 333.1271.



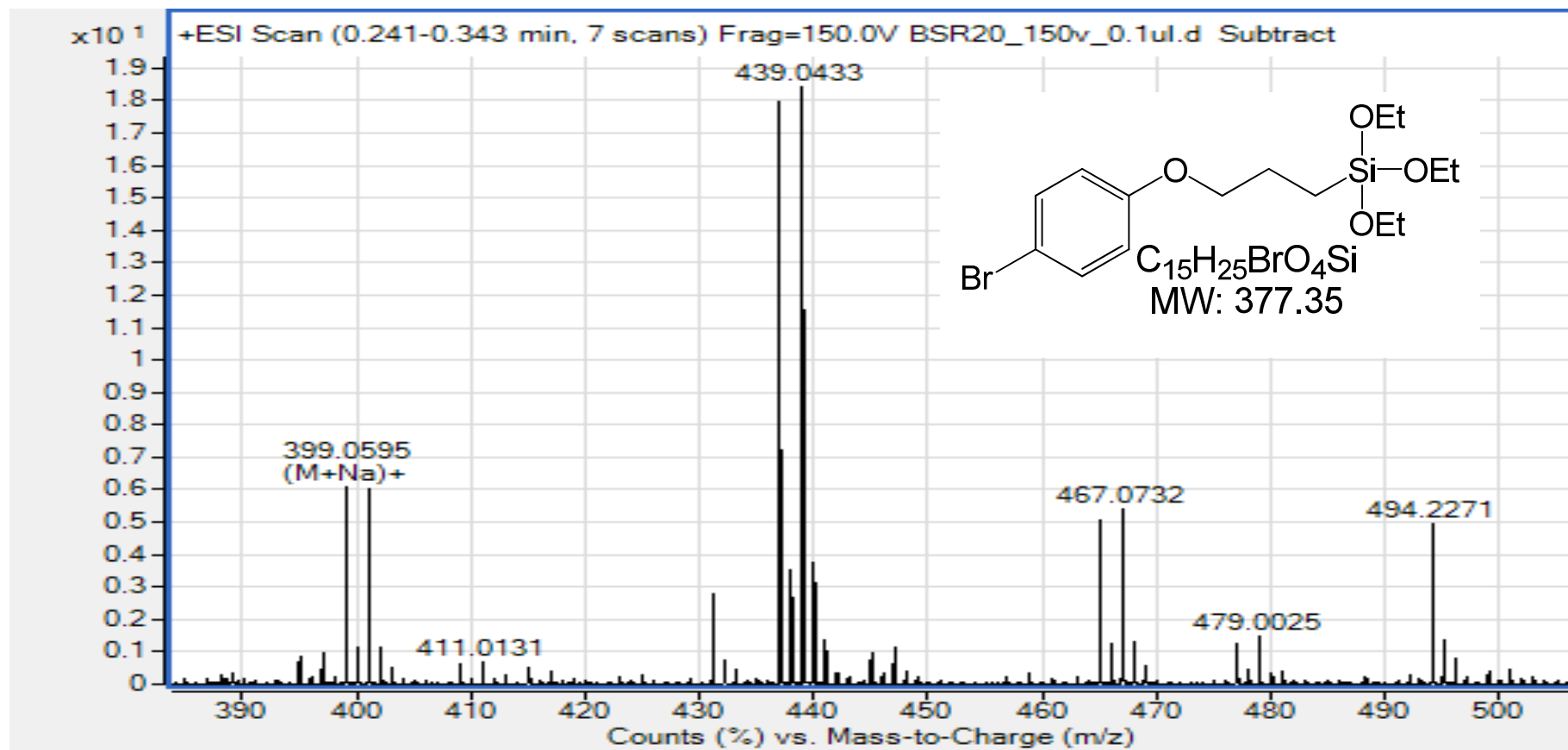
[3-(4-bromophenoxy)propyl]triethoxysilane (**12d**) – ^1H -NMR (CDCl_3 , 400 MHz)



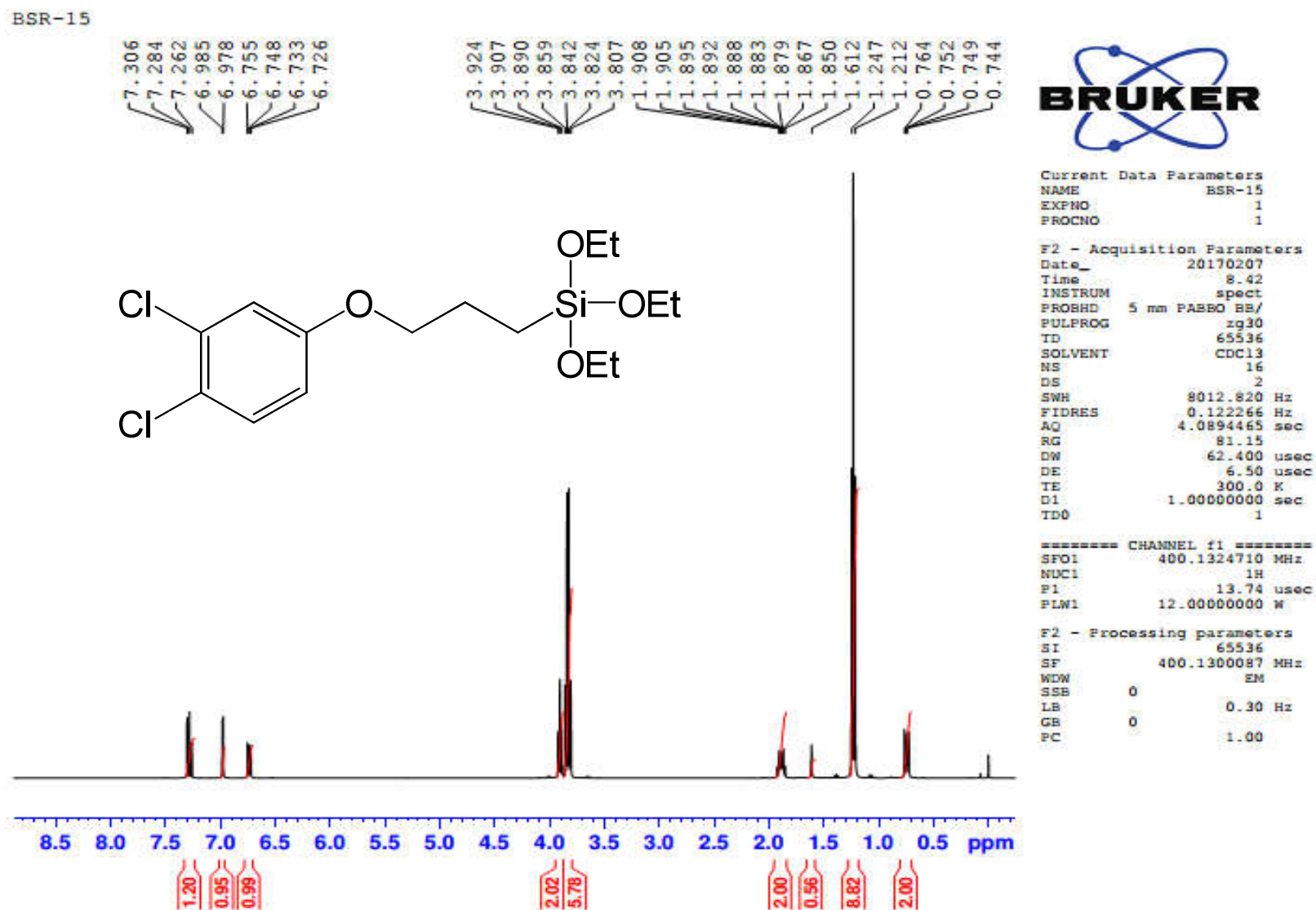
[3-(4-bromophenoxy)propyl]triethoxysilane (**12d**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



[3-(4-bromophenoxy)propyl]triethoxysilane (**12d**) – HR-ESIMS $[M+Na]^+$ Calculated 399.0598; Observed 399.0595.

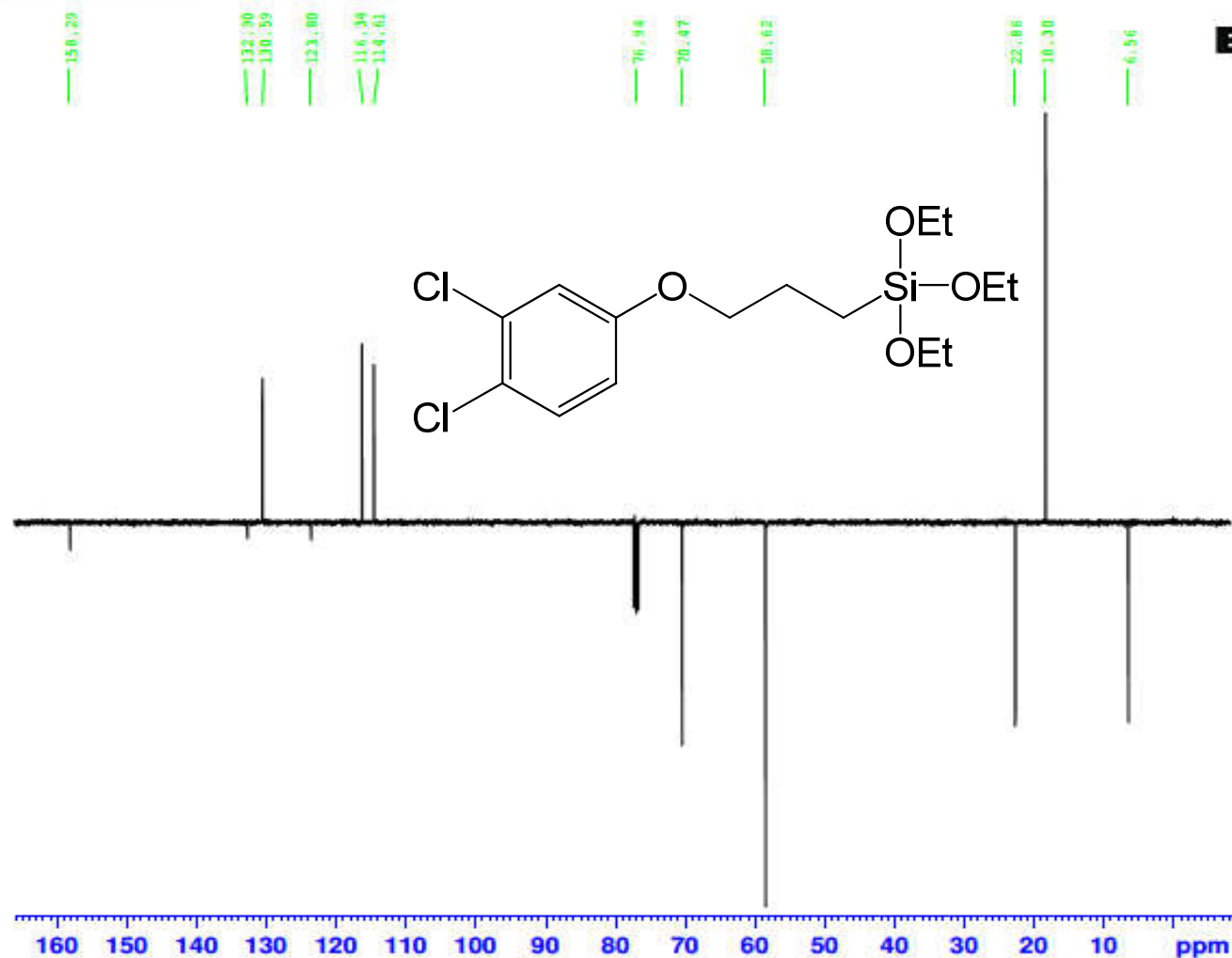


[3-(3,4-dichlorophenoxy)propyl]triethoxysilane (**12e**) – ^1H -NMR (CDCl_3 , 400 MHz)



[3-(3,4-dichlorophenoxy)propyl]triethoxysilane (**12e**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-15-CARBON



Current Data Parameters
NAME BSR-15-CARBON
EXPNO 1
PROCNO 2

F2 - Acquisition Parameters
Date_ 20170207
Time 9.11
INSTRUM spect
PROBHD 5 mm PABBO 50/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 306.83
DN 20.800 usec
DE 6.50 usec
TE 300.2 K
CNS12 145.000000
CNS12 1.500000
D1 2.0000000 sec
D2 0.00344828 sec
D12 0.00002000 sec
D14 0.00000000 sec
D28 0 sec
TD0 1

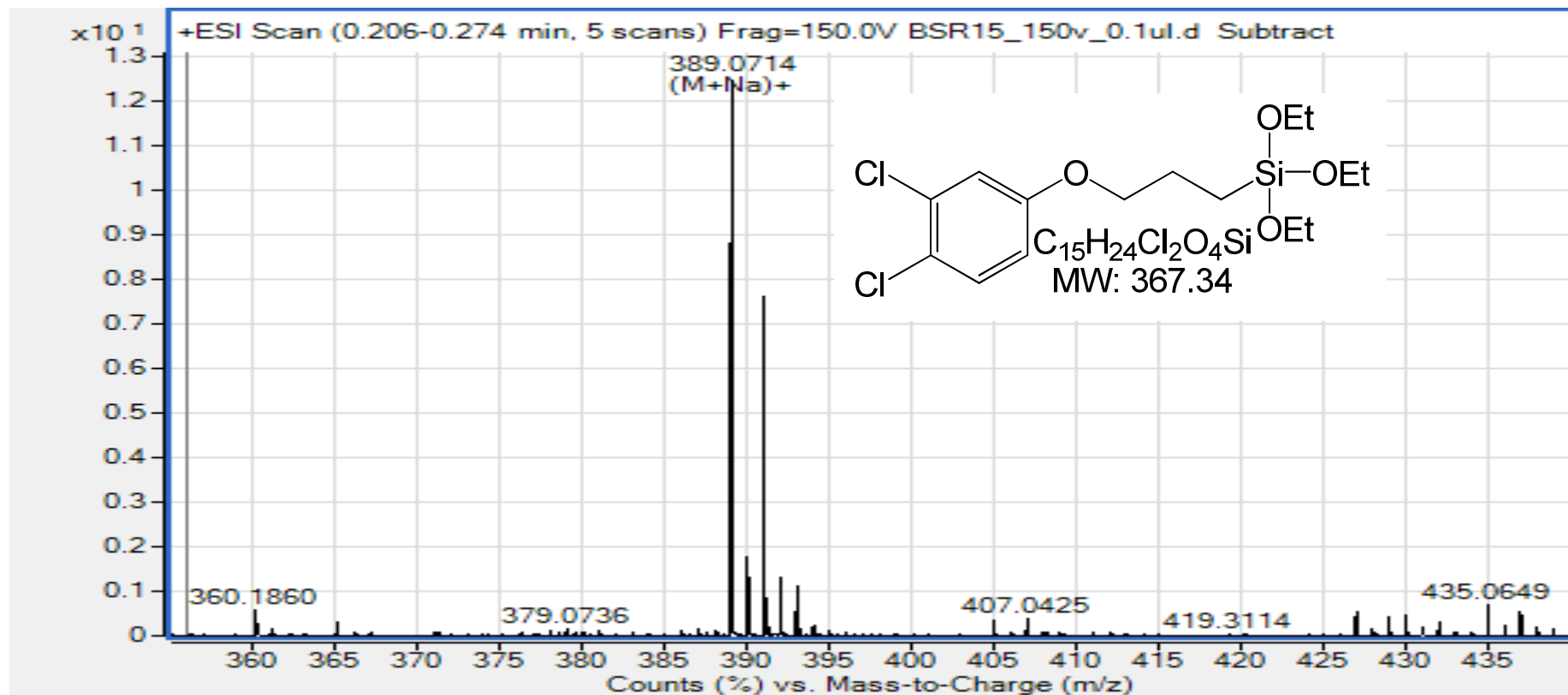
===== CHANNEL f1 =====
SFO1 100.628293 MHz
NUC1 13C
P1 10.00 usec
PL1 0 dB
PL12 55.0000000 W
SFO1S1 Crp40comp.4
SFO1S1 0.500
SFO1S1 0 Hz
SFO1S1 8.40340042 W

===== CHANNEL f2 =====
SFO2 400.1316005 MHz
NUC2 1H
CPCPRG2 waltz16
P2 20.41 usec
P3 13.74 usec
P4 27.48 usec
PCPD2 80.00 usec
PL12 12.0000000 W
PL12 0.35398000 W
PL13 0.22655000 W

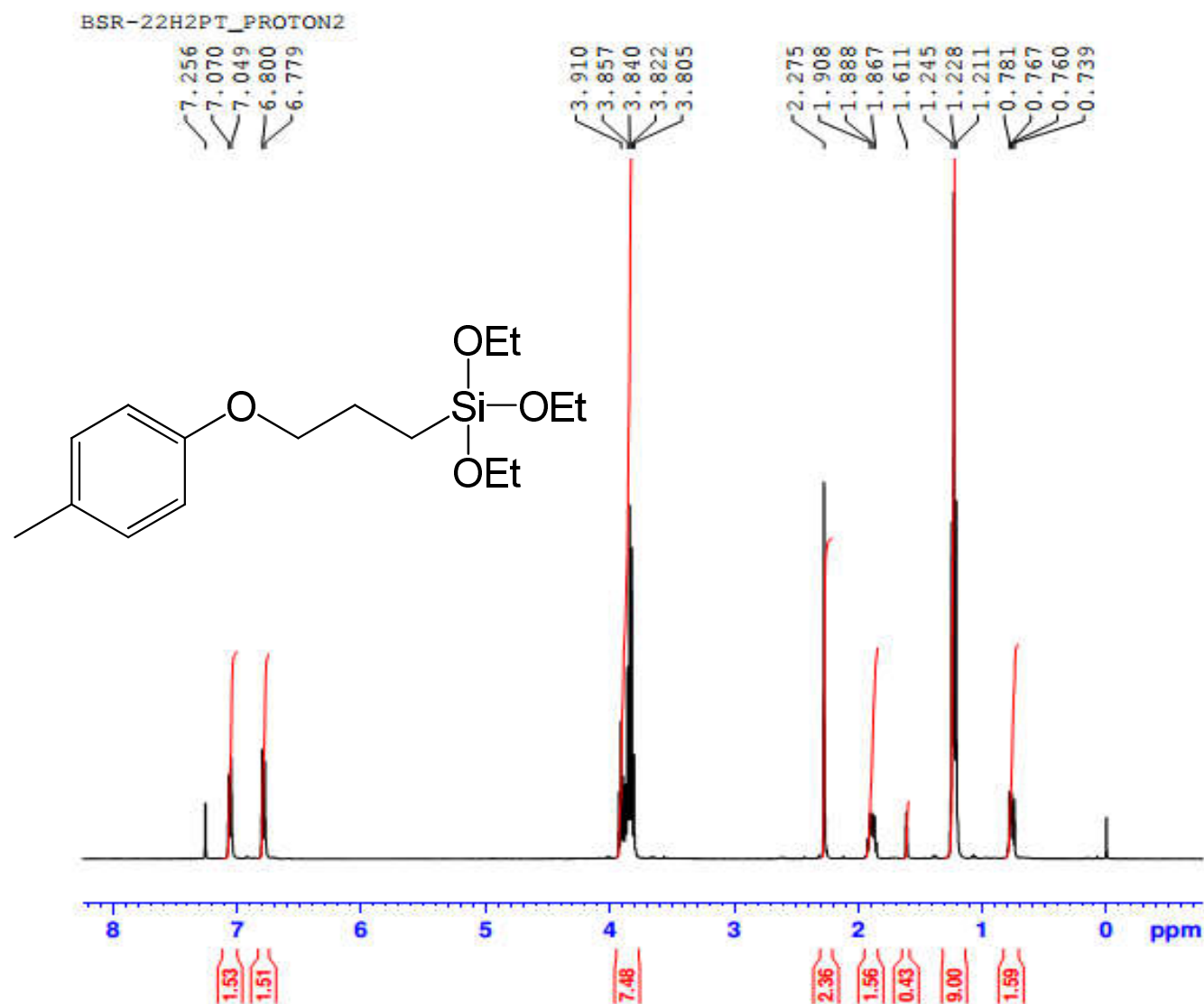
===== GRADIENT CHANNEL =====
GPR1[1] SNG10.100
GPR1[2] SNG10.100
GPR1[3] SNG10.100
GP21 31.00 %
GP22 31.00 %
GP23 31.00 %
P14 1000.00 usec

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

[3-(3,4-dichlorophenoxy)propyl]triethoxysilane (**12e**) – HR-ESIMS [M+Na]⁺ Calculated 389.0713; Observed 389.0714.



Triethoxy[3-(*p*-toloxy)propyl]silane (**12f**) – ^1H -NMR (CDCl_3 , 400 MHz)



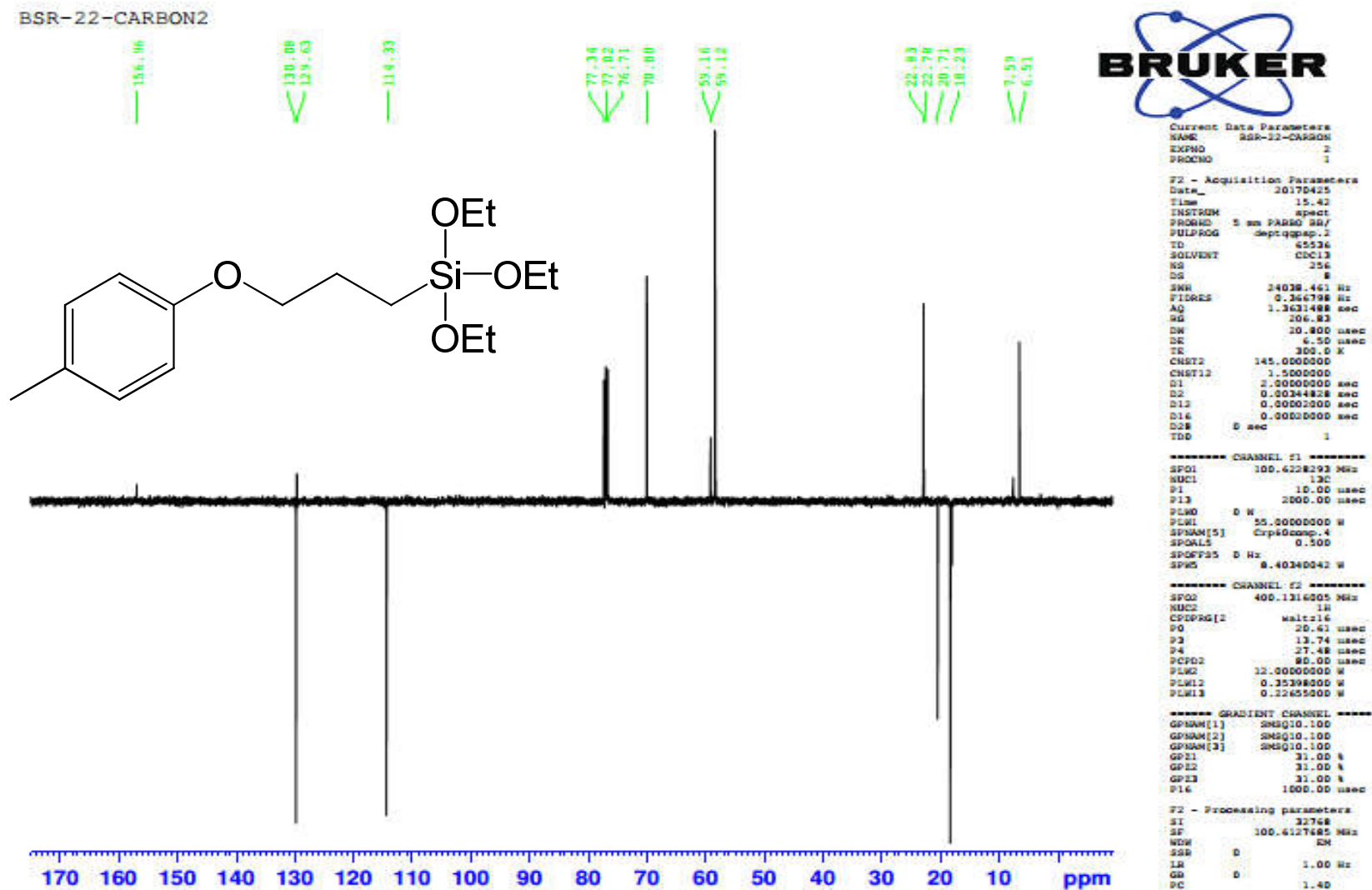
Current Data Parameters
 NAME BSR-22H2PT
 EXPNO 2
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20170425
 Time 10.13
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 65536
 SOLVENT CDCl_3
 NS 16
 DS 2
 SWH 8012.820 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894465 sec
 RG 81.15
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 TD0 1

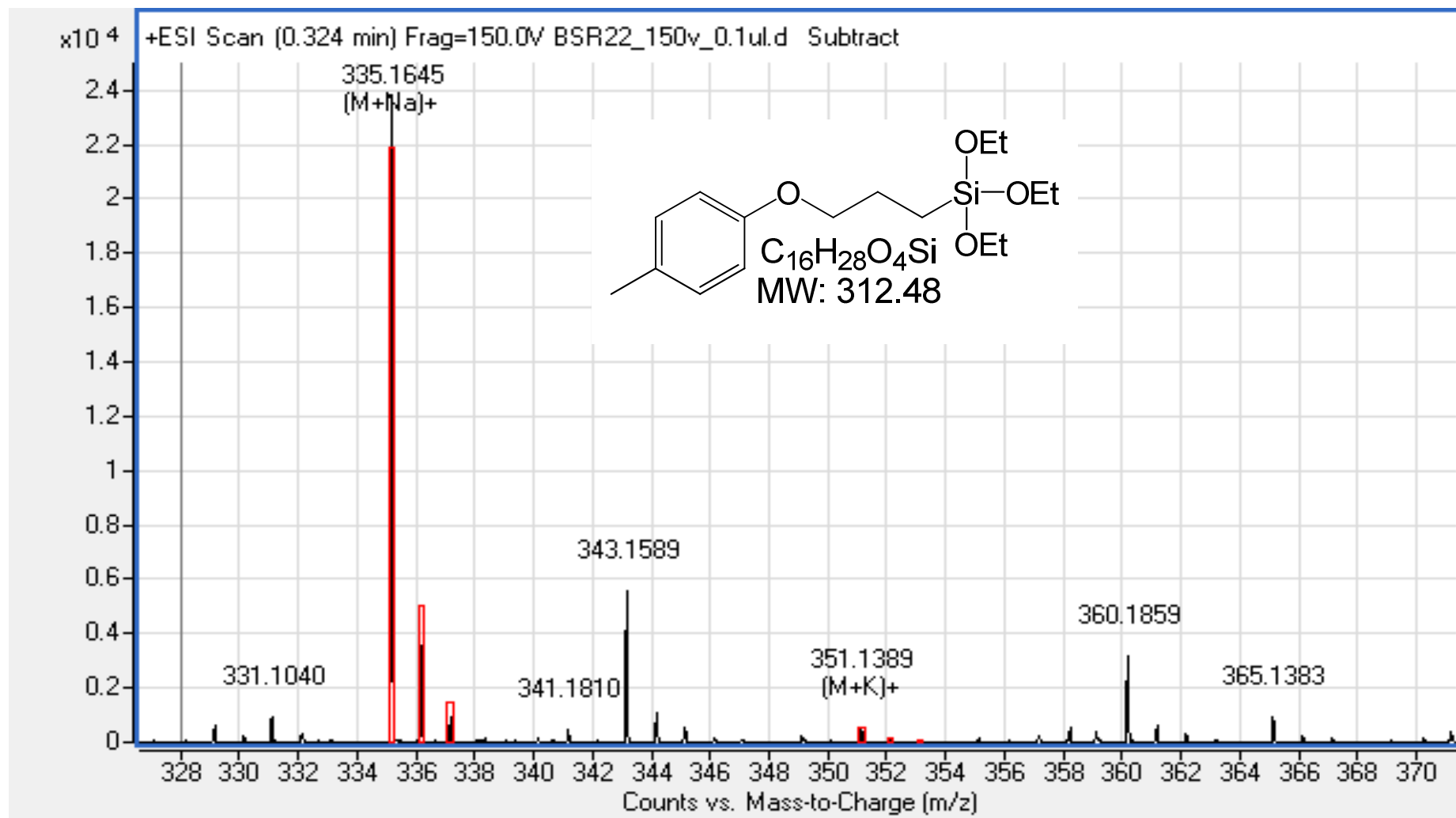
===== CHANNEL f1 =====
 SFO1 400.1324710 MHz
 NUC1 ^1H
 P1 13.74 usec
 PLW1 12.00000000 W

F2 - Processing parameters
 SI 65536
 SF 400.1300109 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

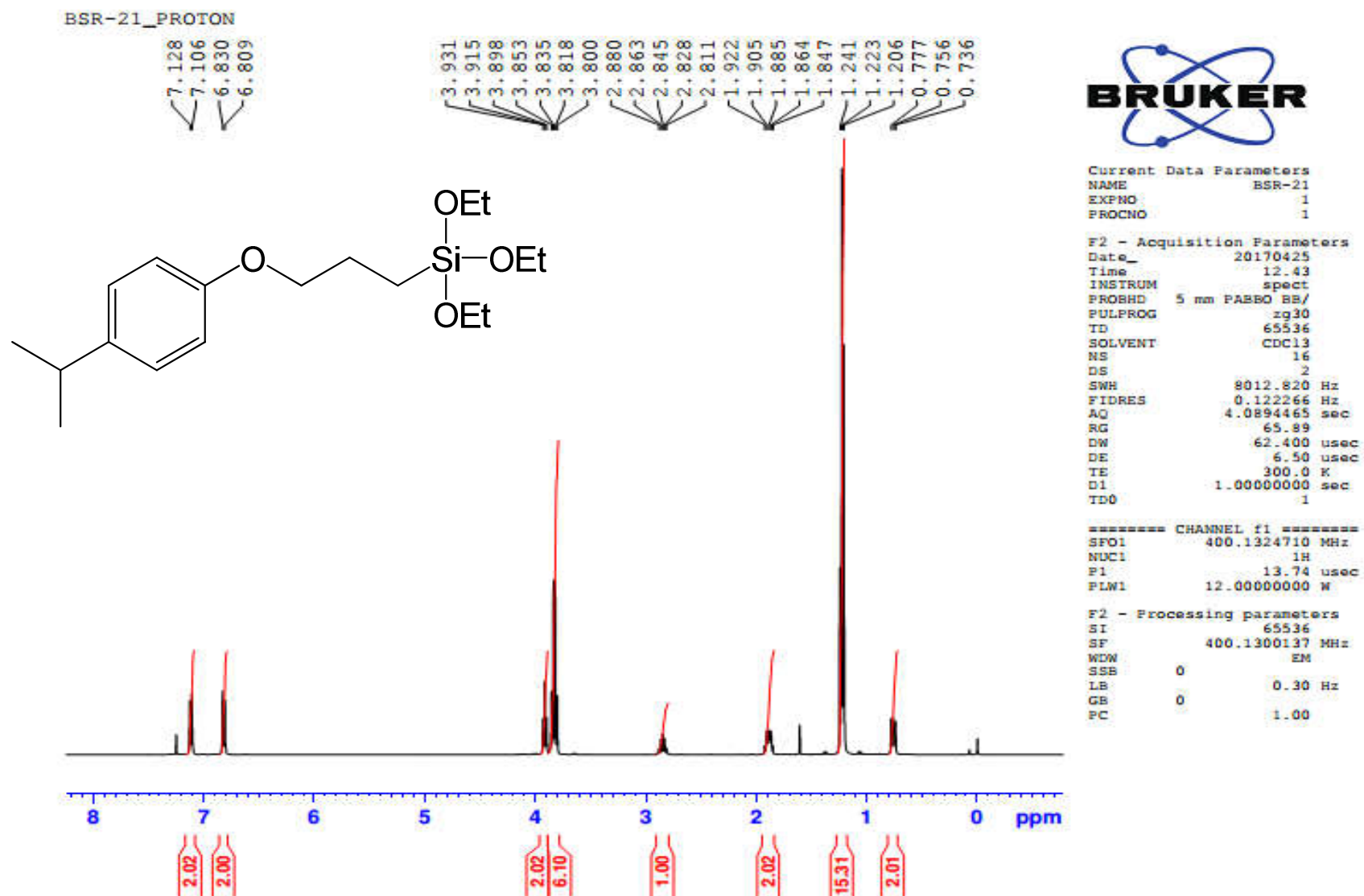
Triethoxy[3-(p-tolyloxy)propyl]silane (**12f**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



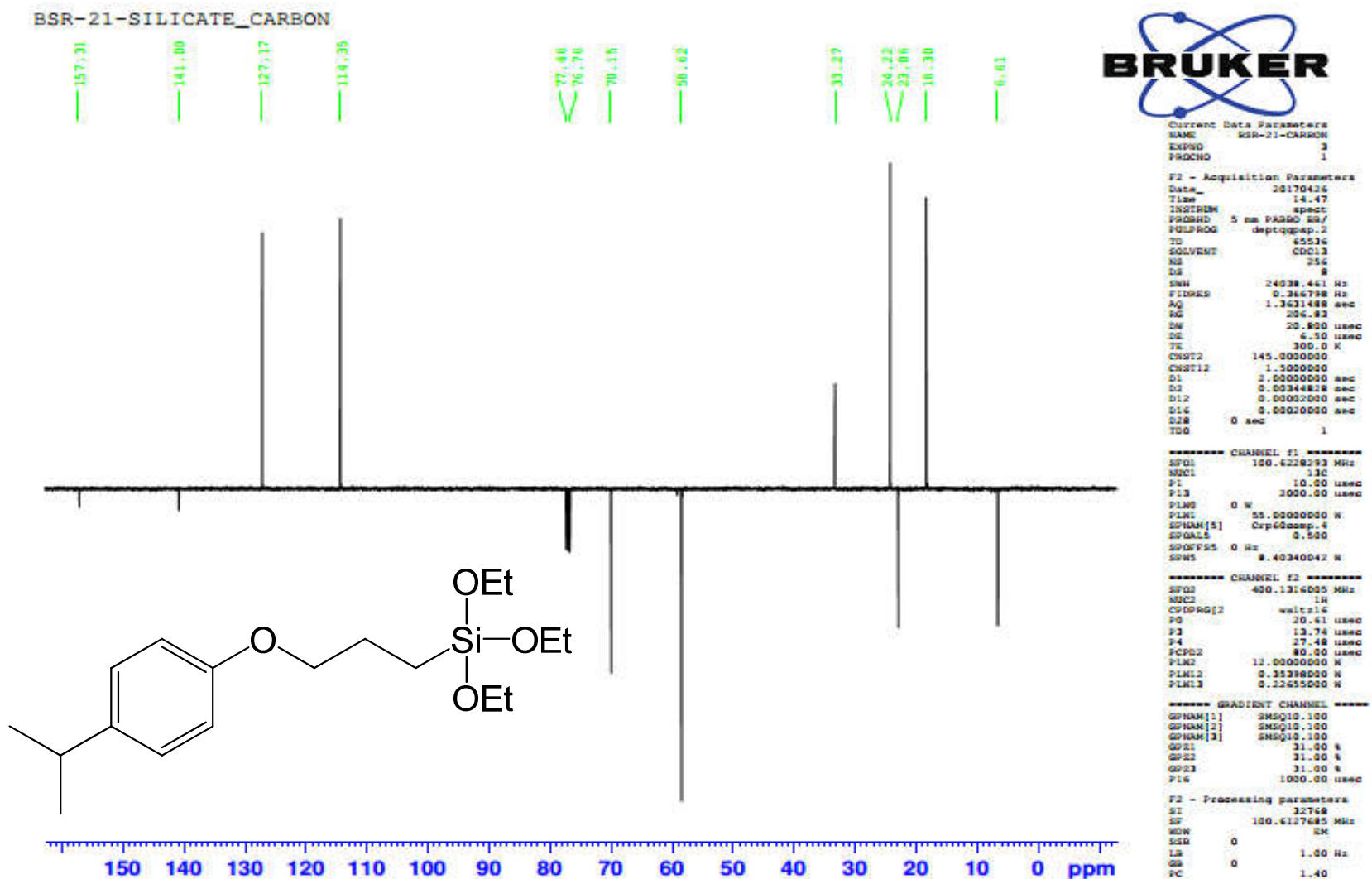
Triethoxy[3-(*p*-toloxy)propyl]silane (**12f**) – HR-ESIMS [M+Na]⁺ Calculated 335.1649; Observed 335.1645.



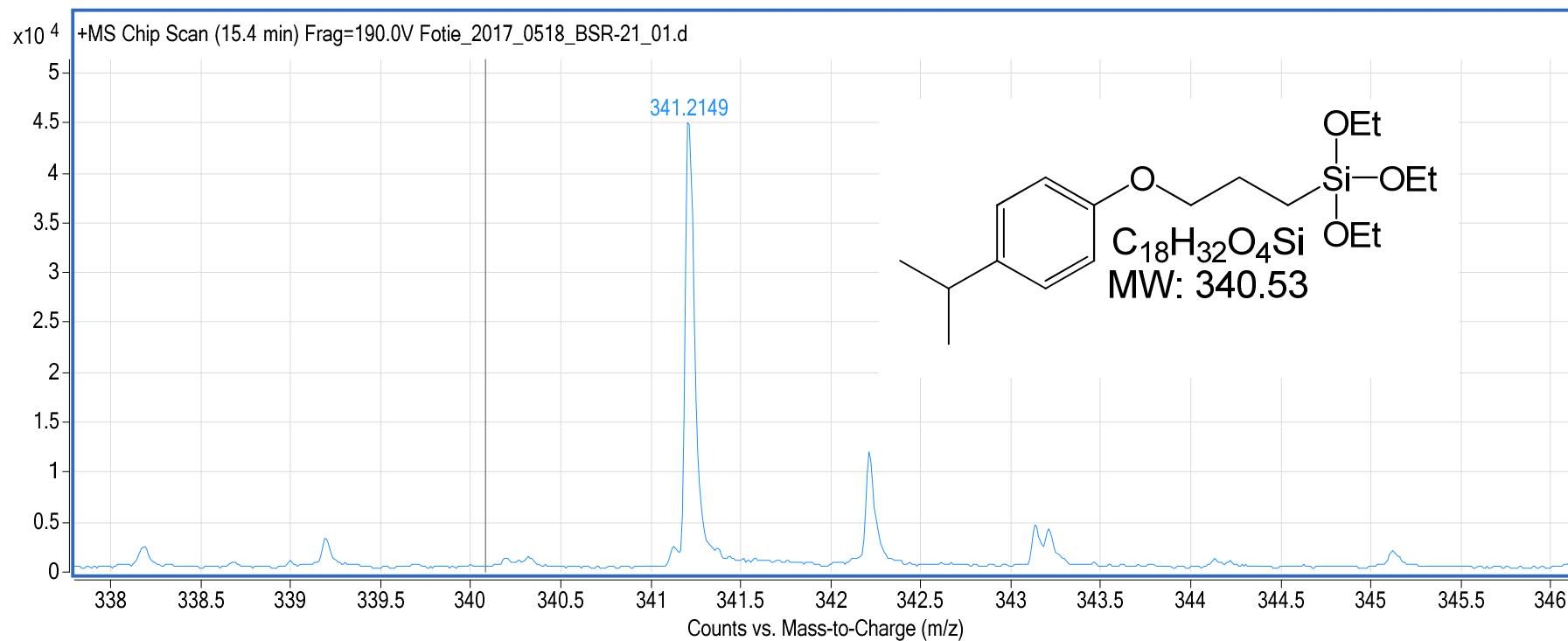
Triethoxy[3-(4-isopropylphenoxy)propyl]silane (**12g**) – ^1H -NMR (CDCl_3 , 400 MHz)



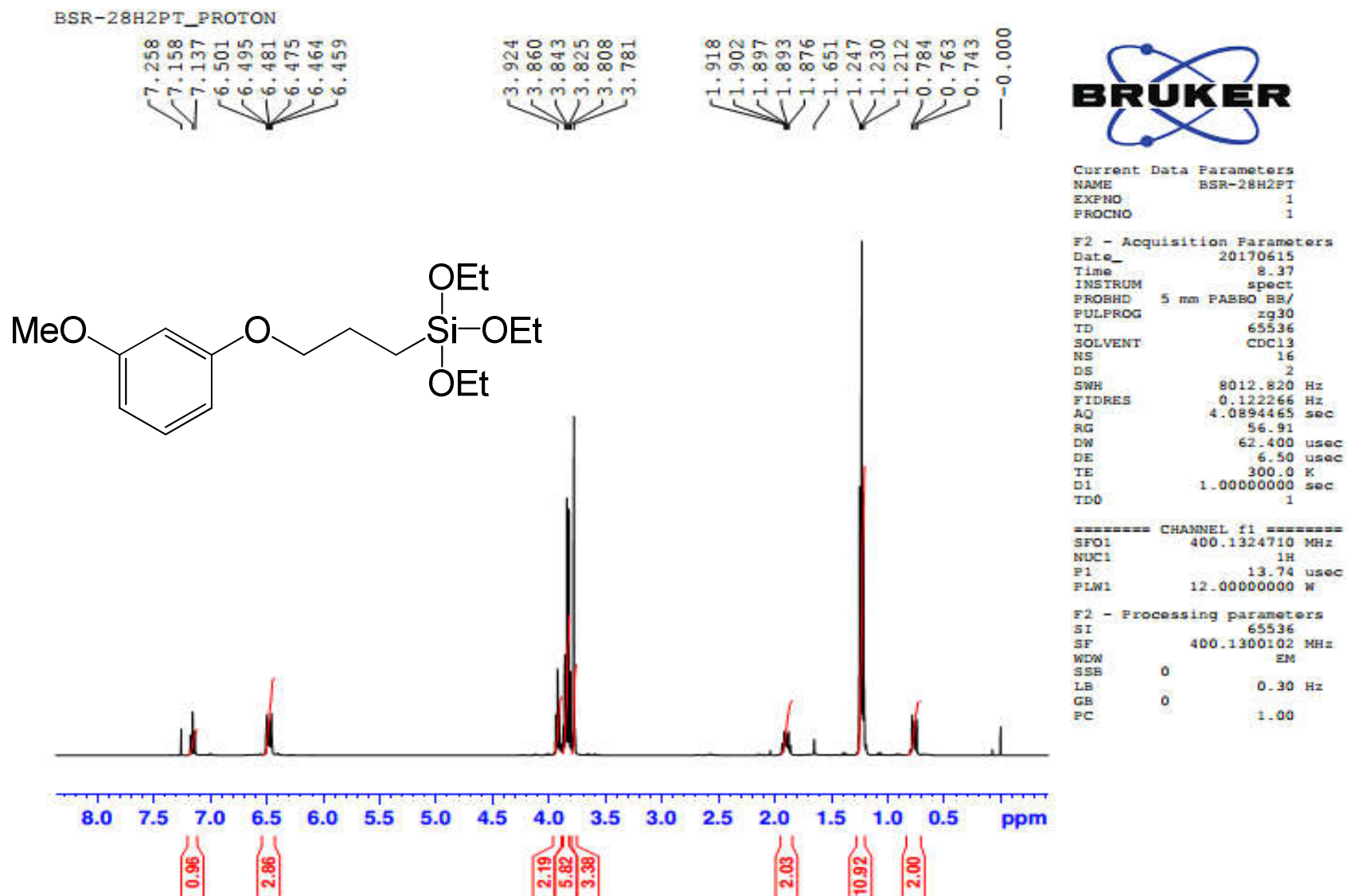
Triethoxy[3-(4-isopropylphenoxy)propyl]silane (**12g**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



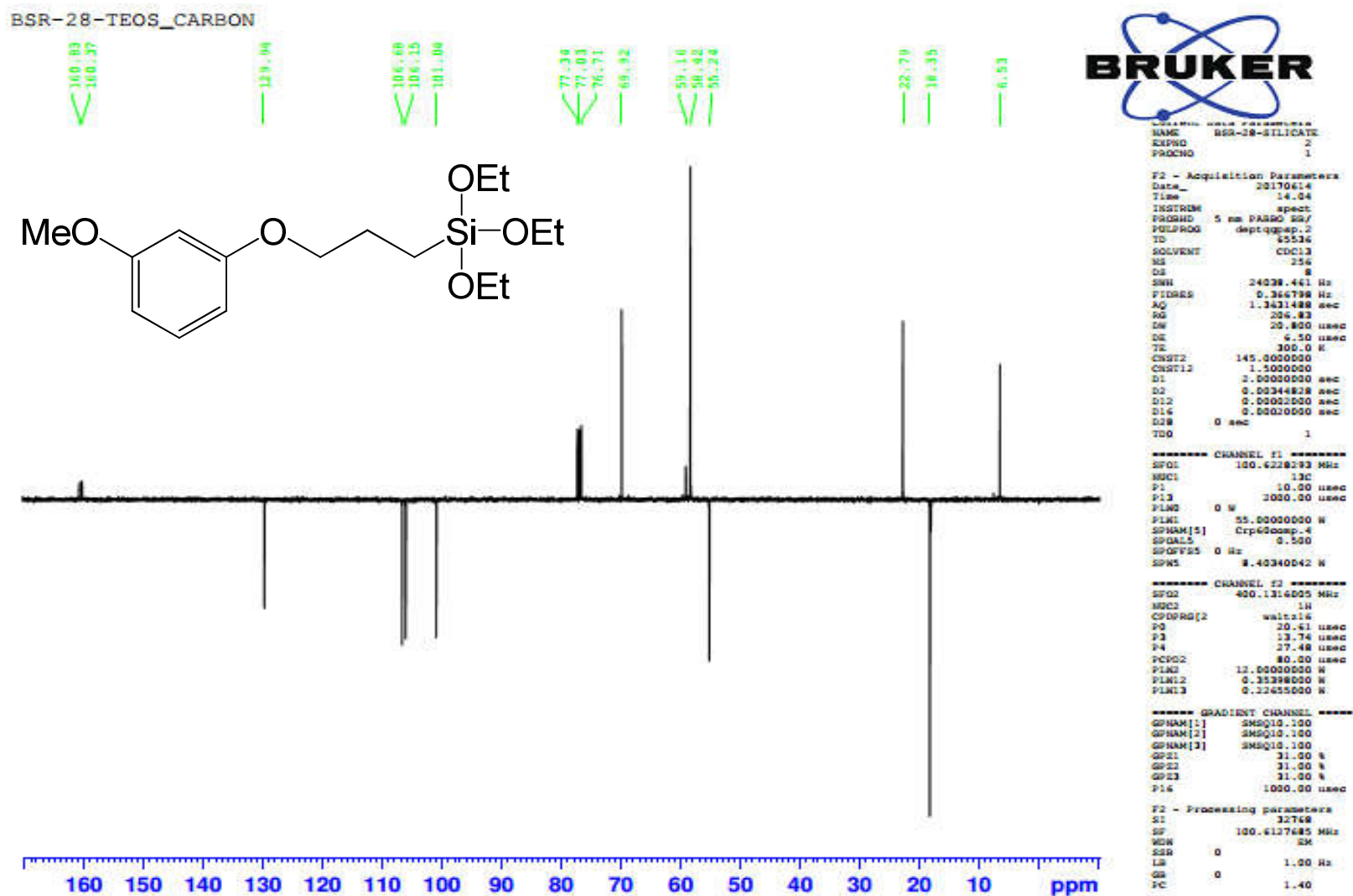
Triethoxy[3-(4-isopropylphenoxy)propyl]silane (**12g**) – HR-ESIMS [M+H]⁺ Calculated 341.2143; Observed 341.2149.



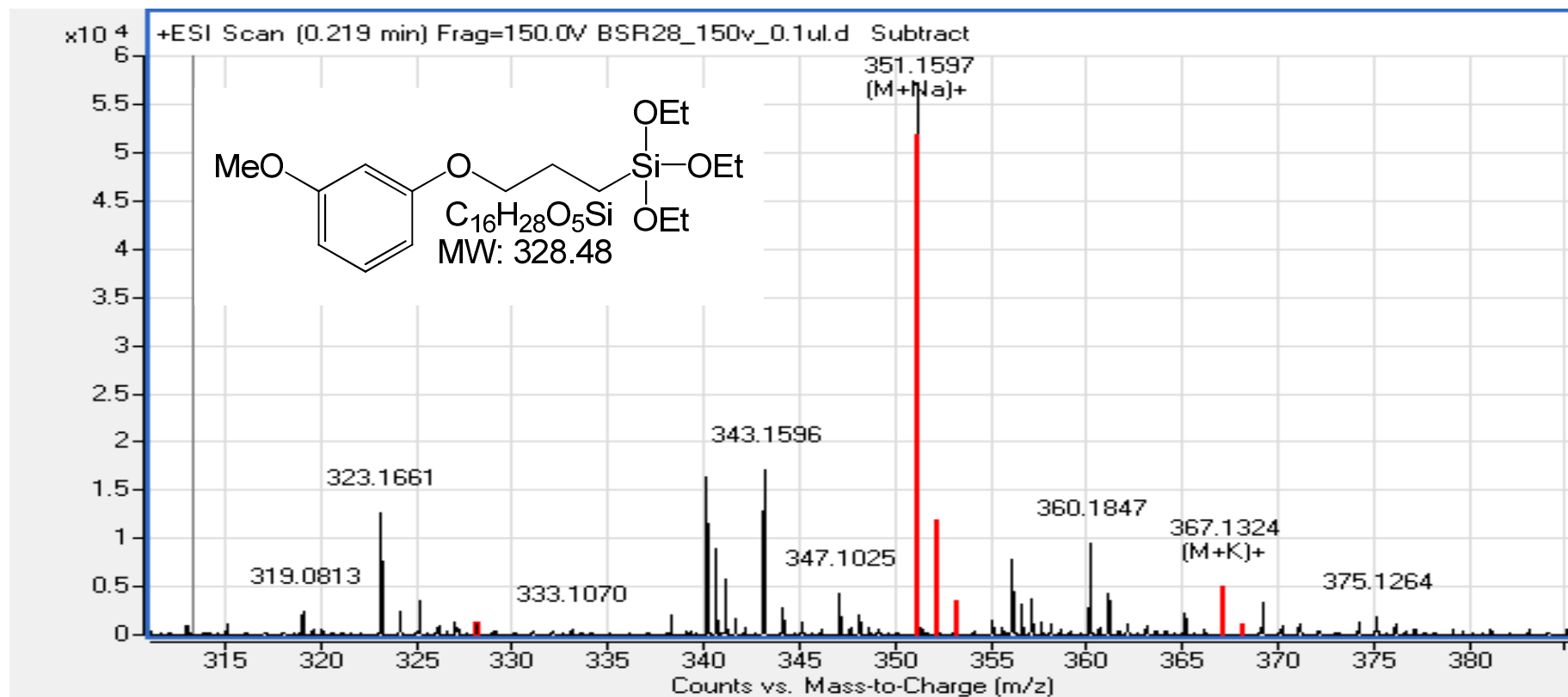
Triethoxy[3-(3-methoxyphenoxy)propyl]silane (**12h**) – ^1H -NMR (CDCl_3 , 400 MHz)



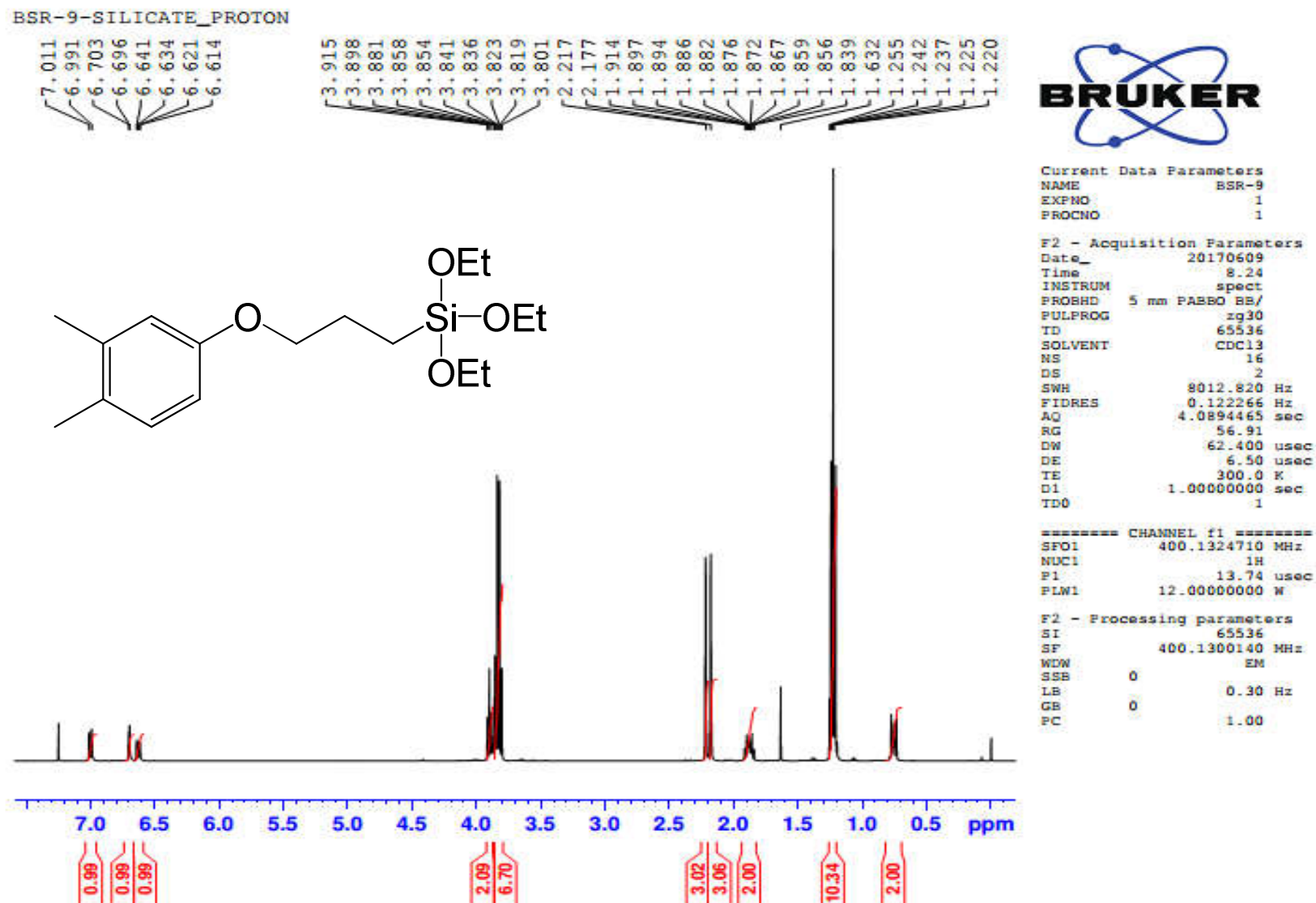
Triethoxy[3-(3-methoxyphenoxy)propyl]silane (**12h**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



Triethoxy[3-(3-methoxyphenoxy)propyl]silane (**12h**) – HR-ESIMS [M+Na]⁺ Calculated 351.1598; Observed 351.1597.

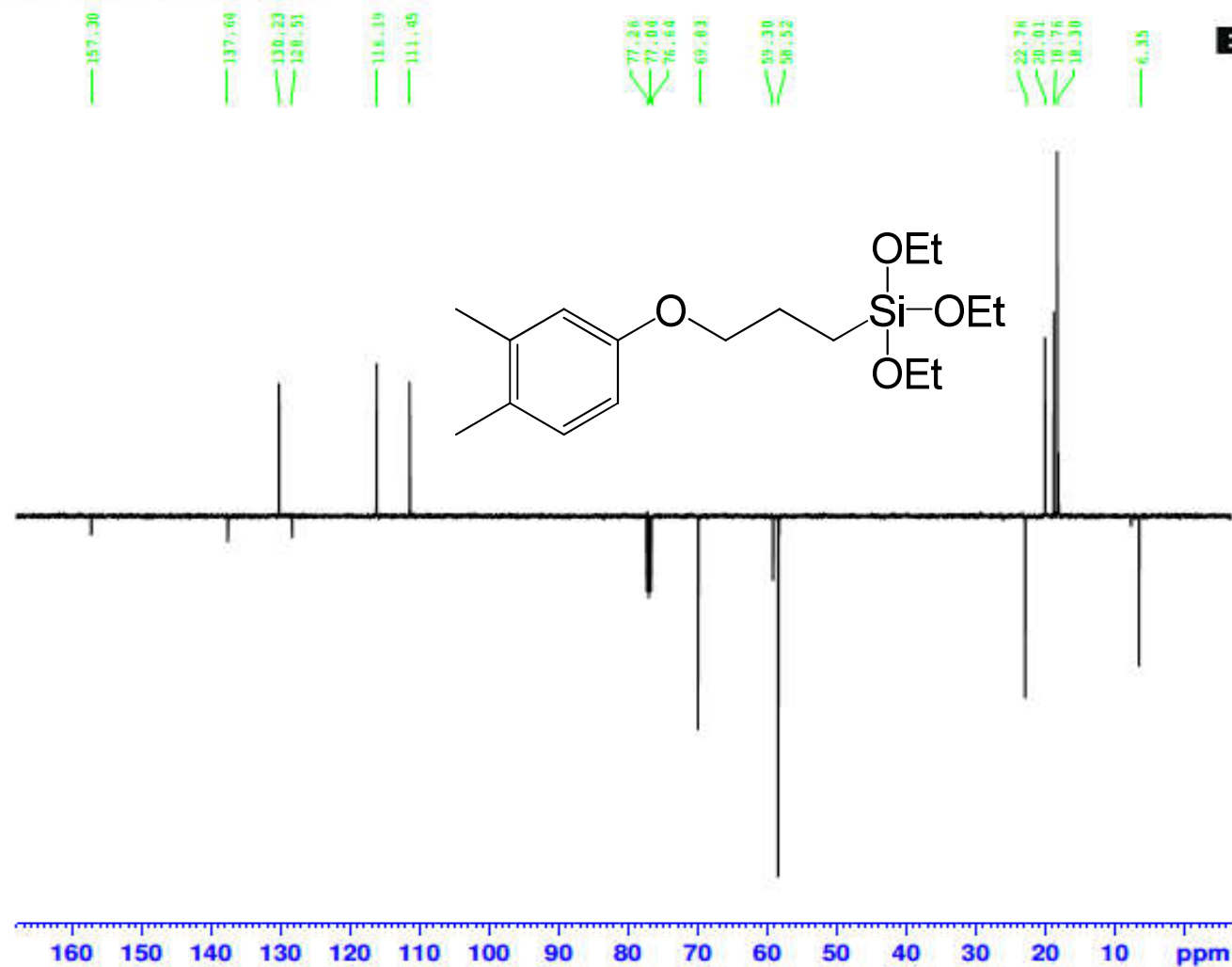


[3-(3,4-dimethylphenoxy)propyl]triethoxysilane (**12i**) – ^1H -NMR (CDCl_3 , 400 MHz)



[3-(3,4-dimethylphenoxy)propyl]triethoxysilane (**12i**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-9-SILICATE_CARBON



Current Data Parameters
NAME BSR-9
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170609
Time 8.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24039.461 Hz
FIDRES 0.366798 Hz
AQ 1.1631488 sec
RG 206.83
DW 20.900 usec
DE 6.50 usec
TE 300.2 K
CNS12 145.000000
CNS12 1.500000
D1 2.0000000 sec
D2 0.0034482 sec
D12 0.0000000 sec
D14 0.0002000 sec
D2# 0 sec
TD0 1

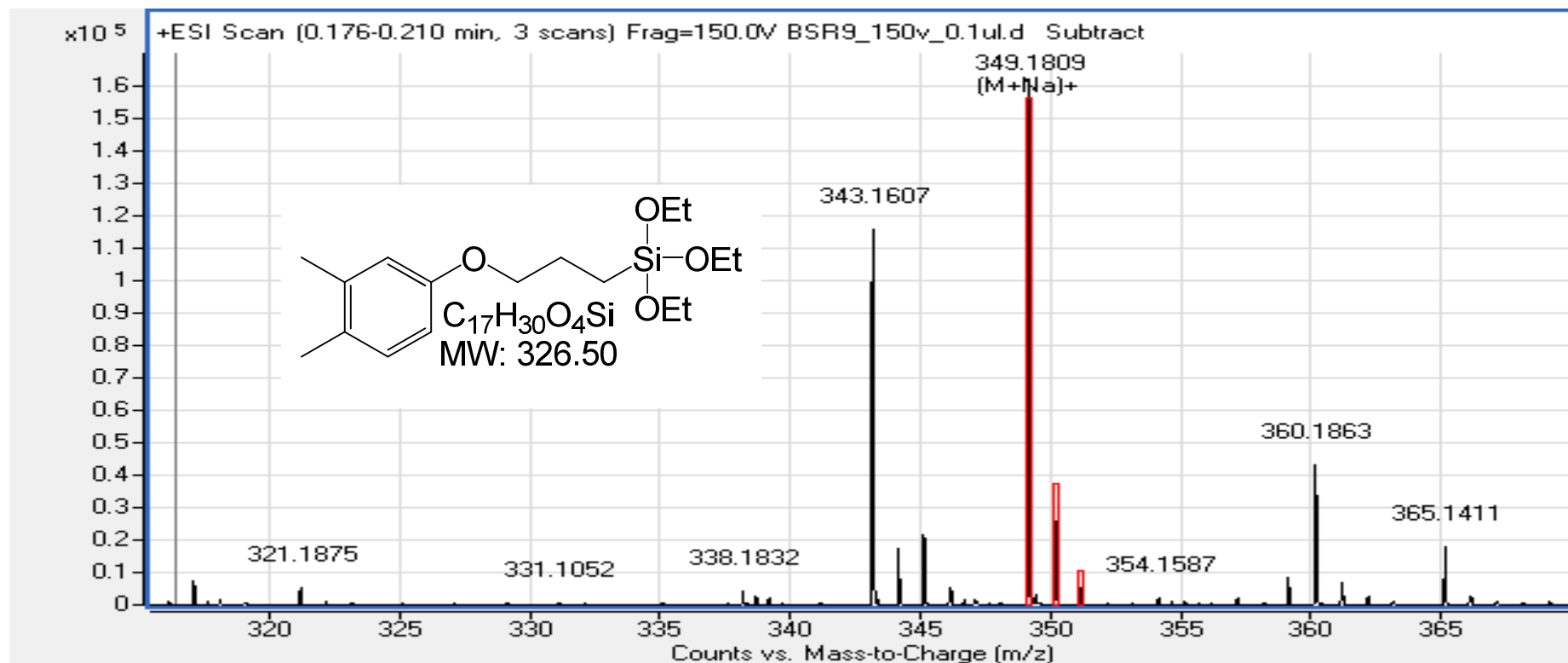
===== CHANNEL f1 =====
RF01 100.6228293 MHz
NUC1 13C
P1 10.00 usec
P13 2000.00 usec
PLW0 0 W
PLW1 55.0000000 W
SFOALS 0.500
SFOALS 0 Hz
SFOALS 8.48340043 W
SFOALS

===== CHANNEL f2 =====
RF02 400.1316005 MHz
NUC2 1H
CYCPRG12 waltz16
P0 20.61 usec
P3 13.74 usec
P4 27.48 usec
PCPD2 80.00 usec
PLW2 12.0000000 W
PLW12 0.3539600 W
PLW13 0.2245500 W

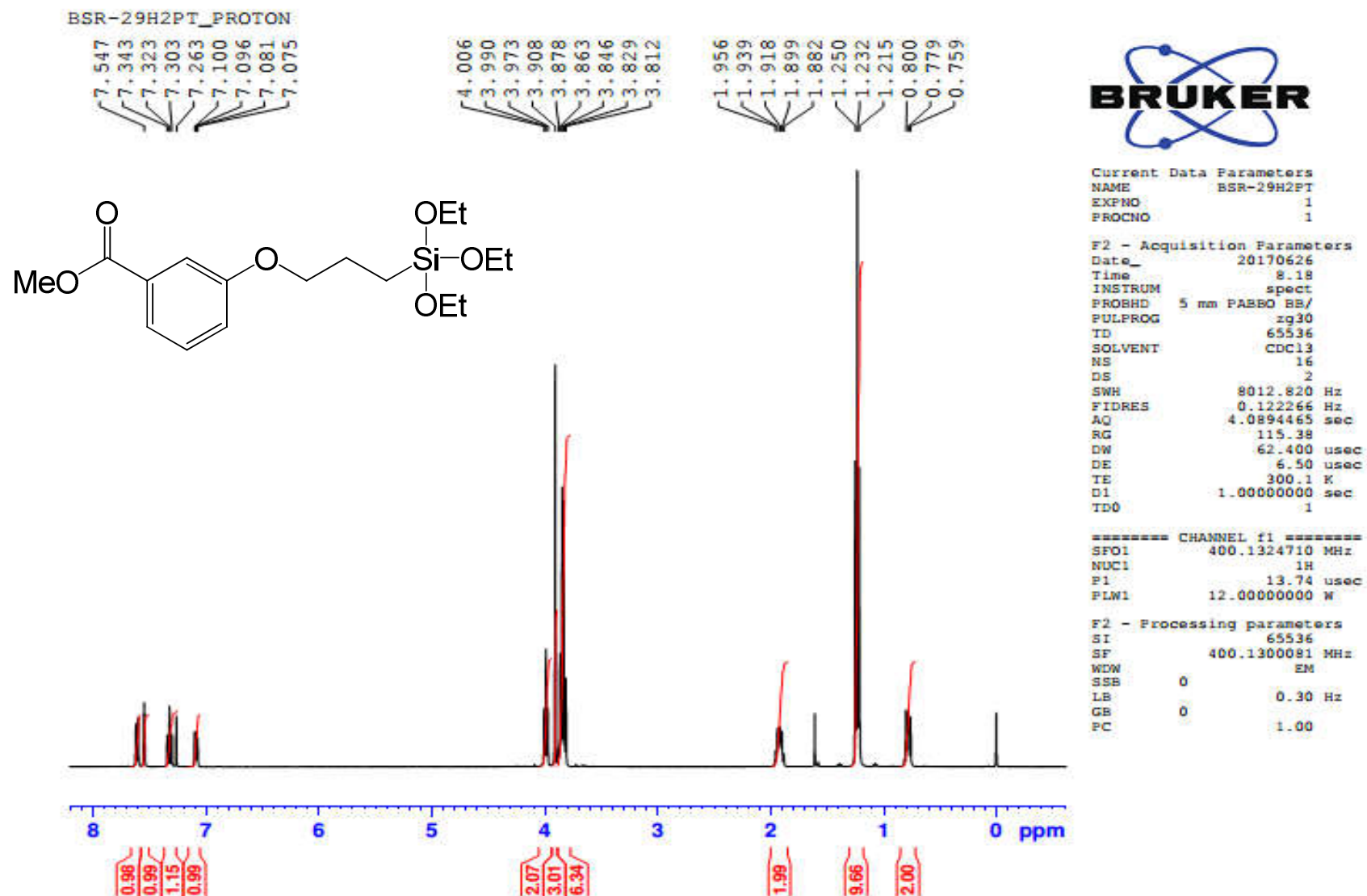
===== GRADIENT CHANNEL =====
GPRAM[1] SMO10.100
GPRAM[2] SMO10.100
GPRAM[3] SMO10.100
GP21 31.00 %
GP22 31.00 %
GP23 31.00 %
P16 1000.00 usec

F2 - Processing parameters
S1 32768
SF 100.6127685 MHz
WDW EM
SSR 0
LA 1.00 Hz
GB 0
PC 1.40

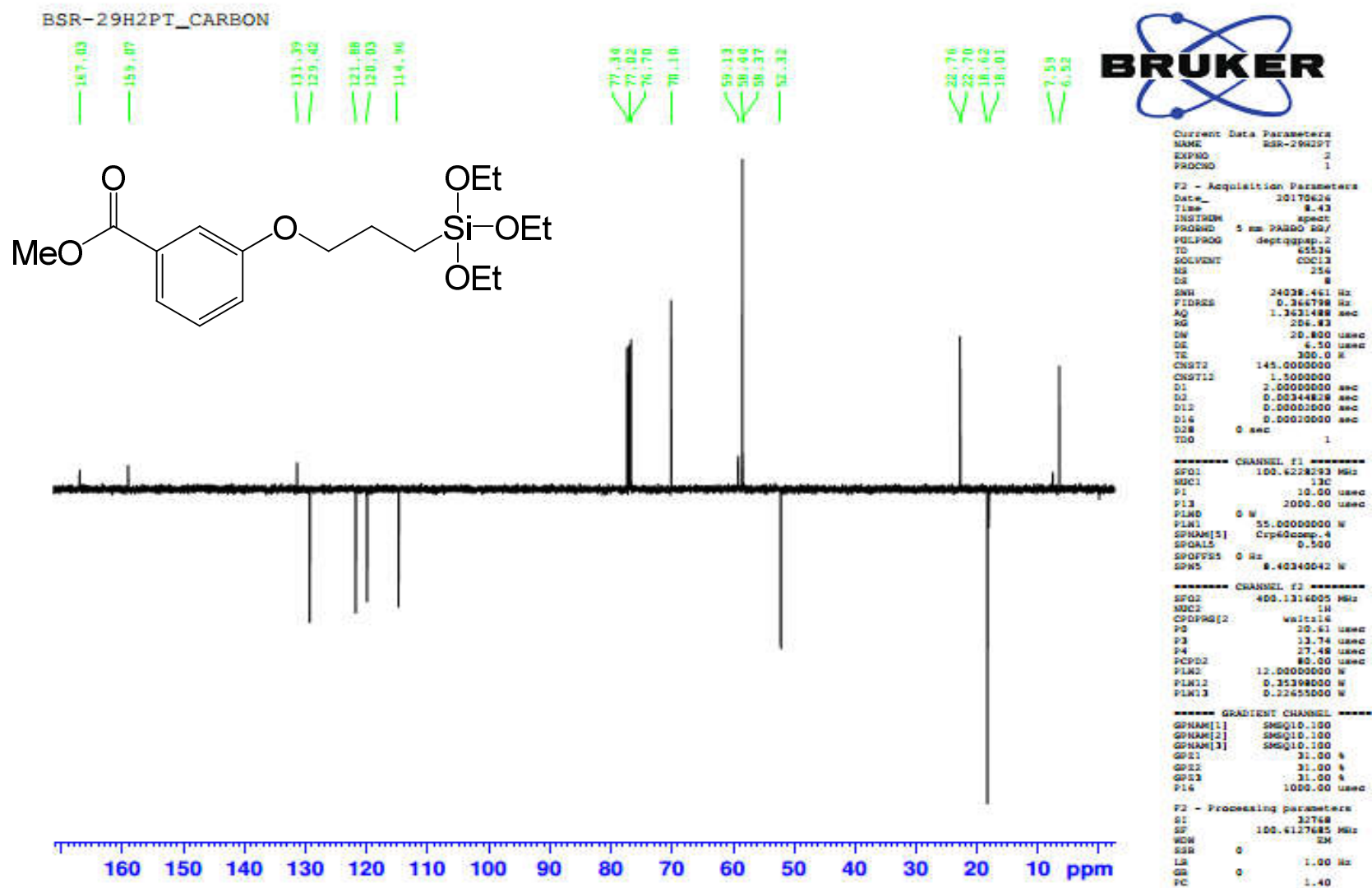
[3-(3,4-dimethylphenoxy)propyl]triethoxysilane (**12i**) – HR-ESIMS [M+Na]⁺ Calculated 349.1806; Observed 349.1809.



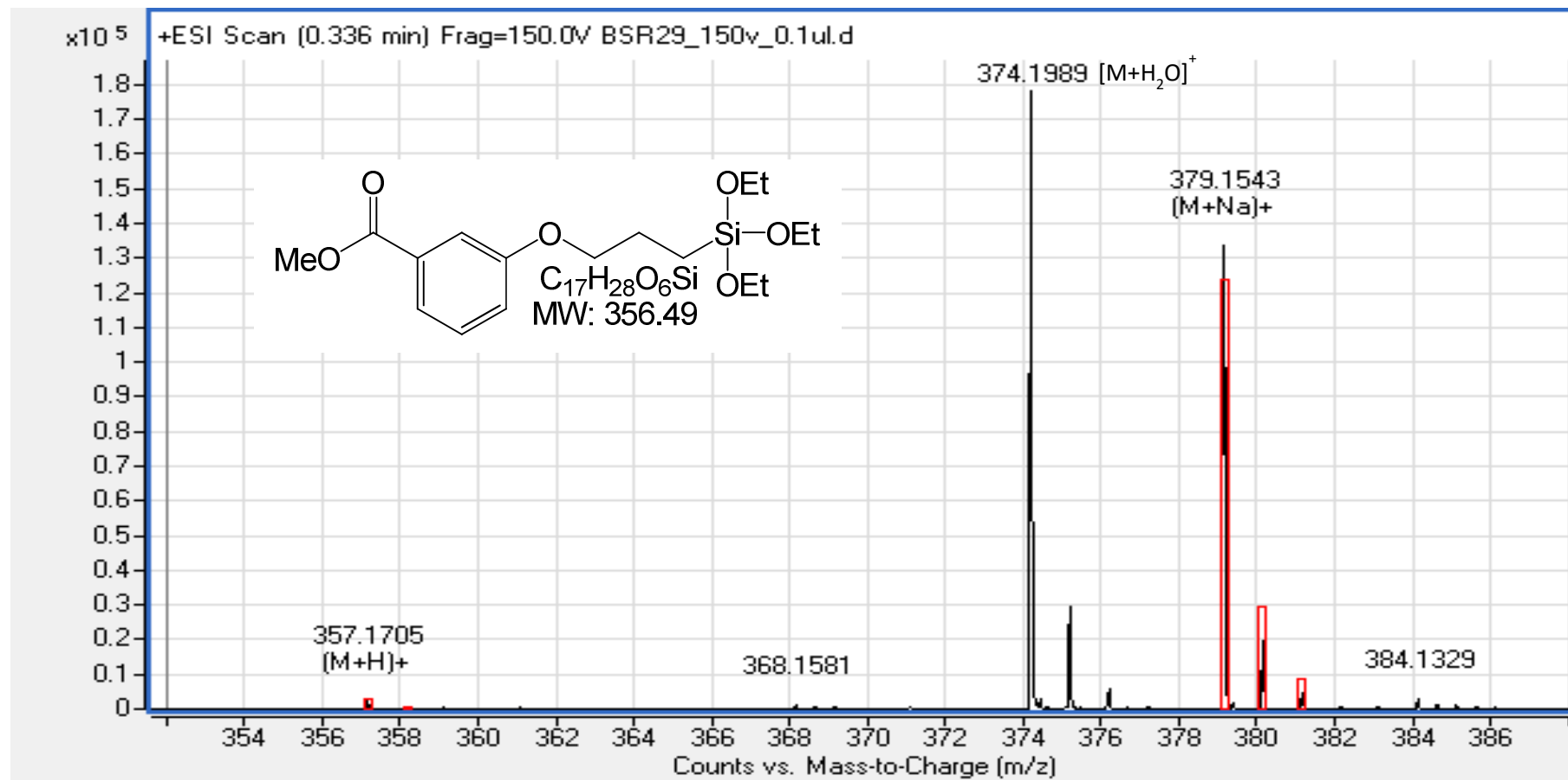
Methyl 3-[3-(triethoxysilyl)propoxy]benzoate (**12j**) – ^1H -NMR (CDCl_3 , 400 MHz)



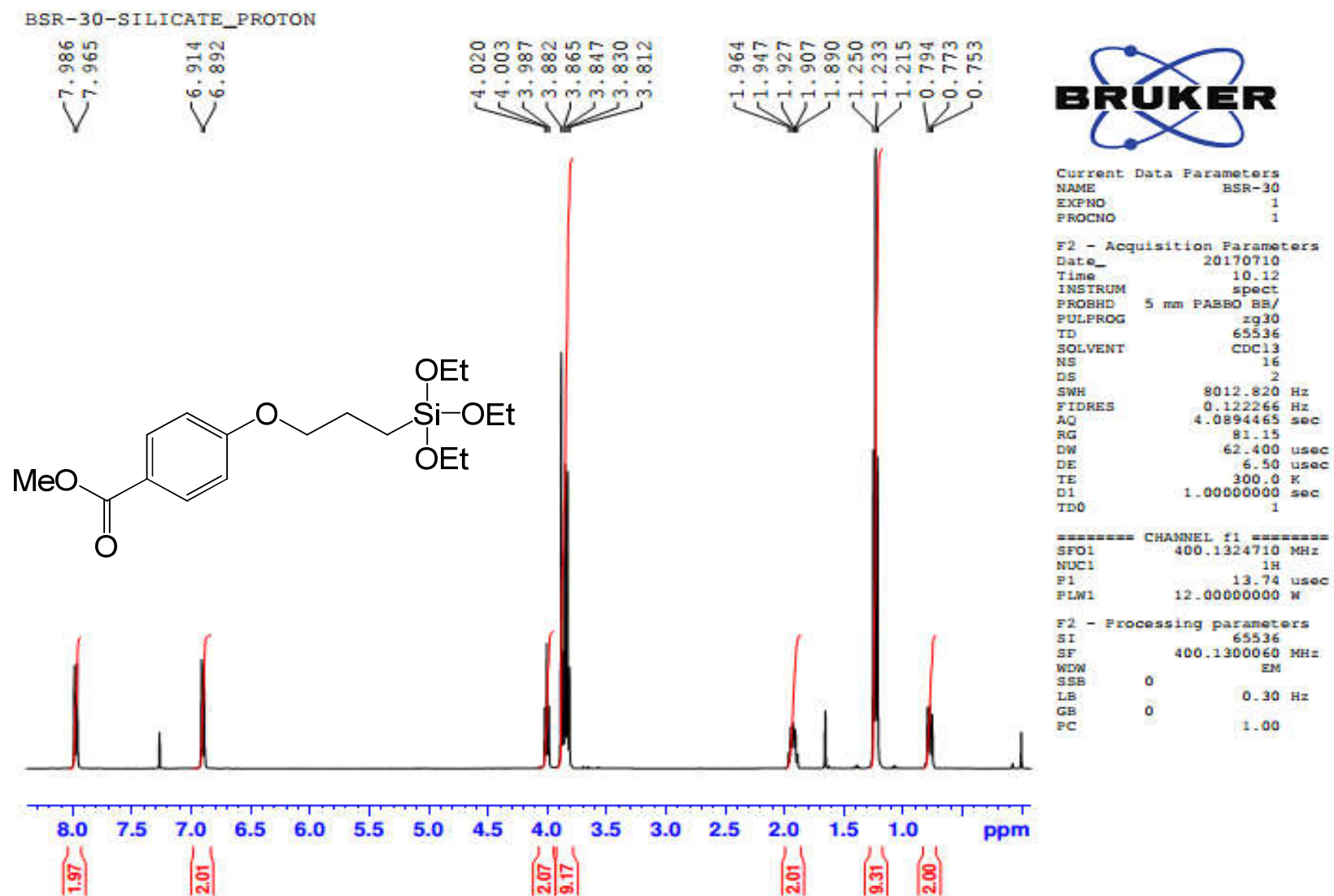
Methyl 3-[3-(triethoxysilyl)propoxy]benzoate (**12j**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



Methyl 3-[3-(triethoxysilyl)propoxy]benzoate (**12j**) – HR-ESIMS $[M+Na]^+$ Calculated 379.1547; Observed 379.1543.

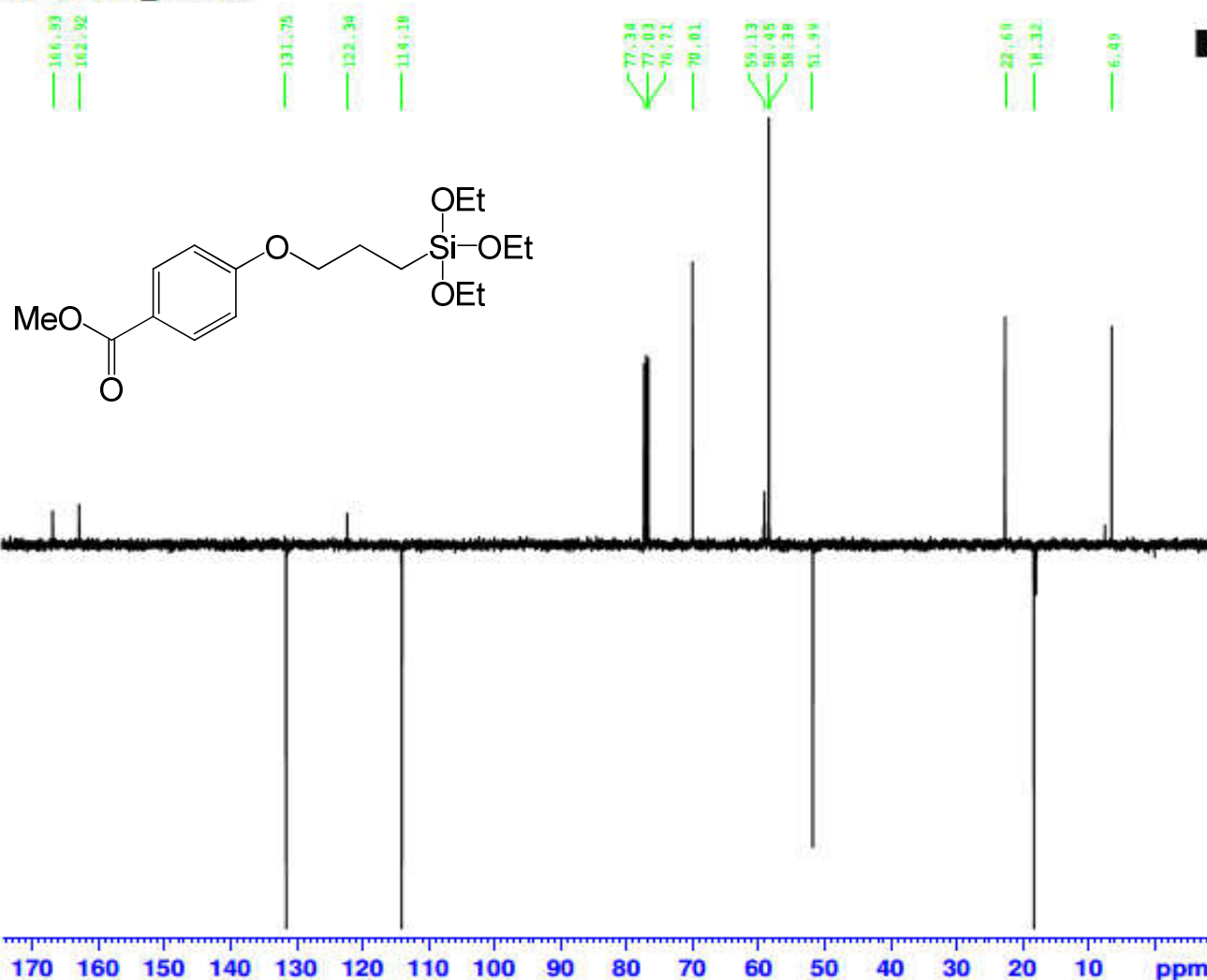


Methyl 4-[3-(triethoxysilyl)propoxy]benzoate (**12k**) – ^1H -NMR (CDCl_3 , 400 MHz)



Methyl 4-[3-(triethoxysilyl)propoxy]benzoate (**12k**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-30H2PT_CARBON



Current Data Parameters
NAME BSR-30H2PT
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170710
Time 9.45
INSTRUM spect
PROBHD 5 mm QNP500 QNP
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24038.461 Hz
FIDRES 0.364798 Hz
AQ 1.3631488 sec
RG 204.83
IN 20.800 used
DE 6.50 used
TE 300.0 K
CNS72 145.0000000
CNS712 1.5000000
D1 2.00000000 sec
D2 0.03344888 sec
D12 0.00000000 sec
D14 0.00000000 sec
D18 0 sec
TD0 1

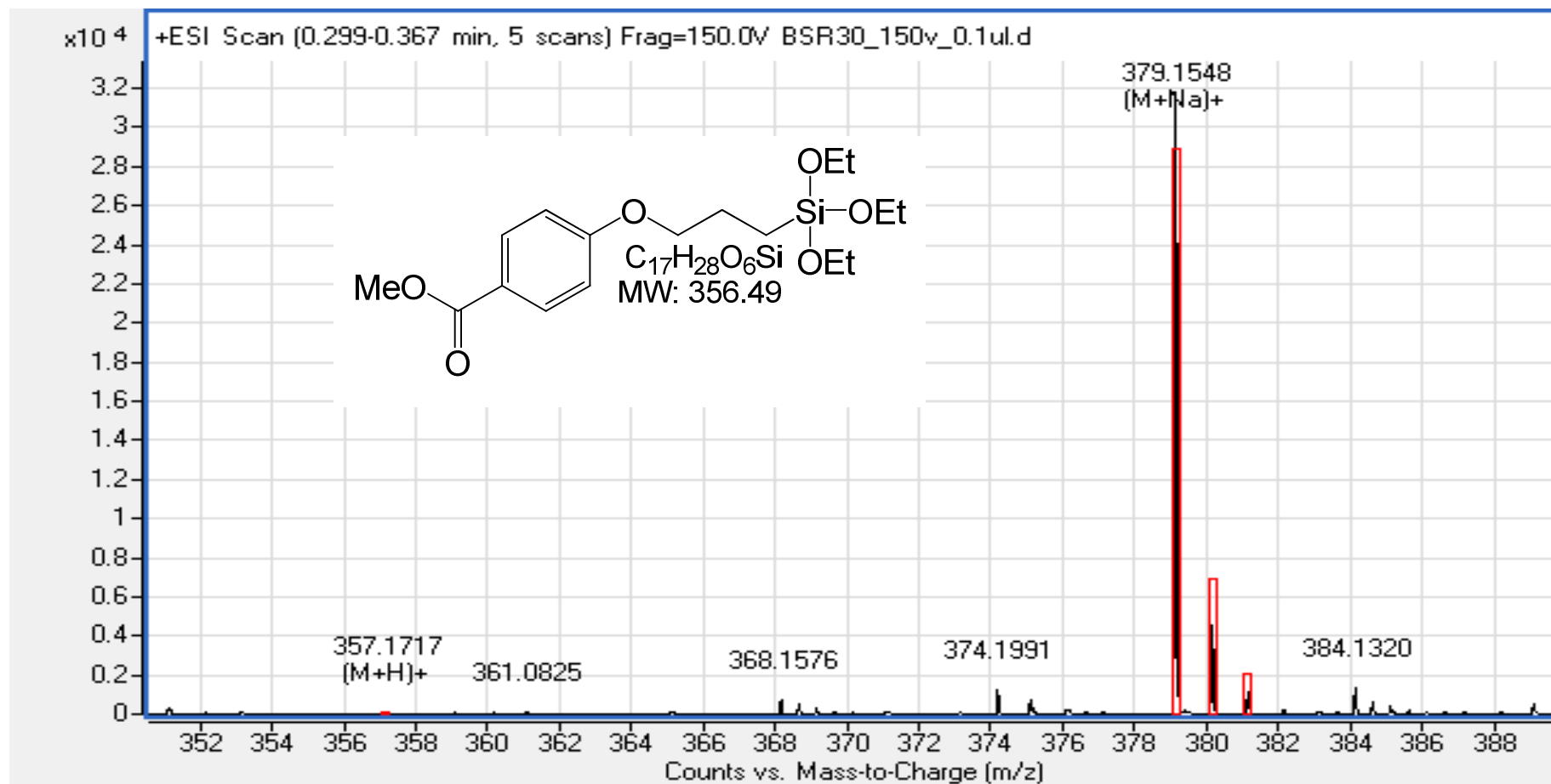
===== CHANNEL f1 =====
SP01 100.6228253 MHz
NUC1 13C
P1 10.00 used
PL1 2000.00 used
PLND 0 W
PLN1 55.00000000 W
SFOAM[5] Crp40comp.4
SFOAL5 0.500
SFOFF5 0 Hz
SFW5 8.45340042 W

===== CHANNEL f2 =====
SP02 400.1316005 MHz
NUC2 1H
CDDPRG[2] waltz16
P2 20.61 used
P3 13.74 used
P4 27.48 used
PCPD2 80.00 used
PLW2 12.00000000 W
PLW12 0.35398000 W
PLW13 0.22655000 W

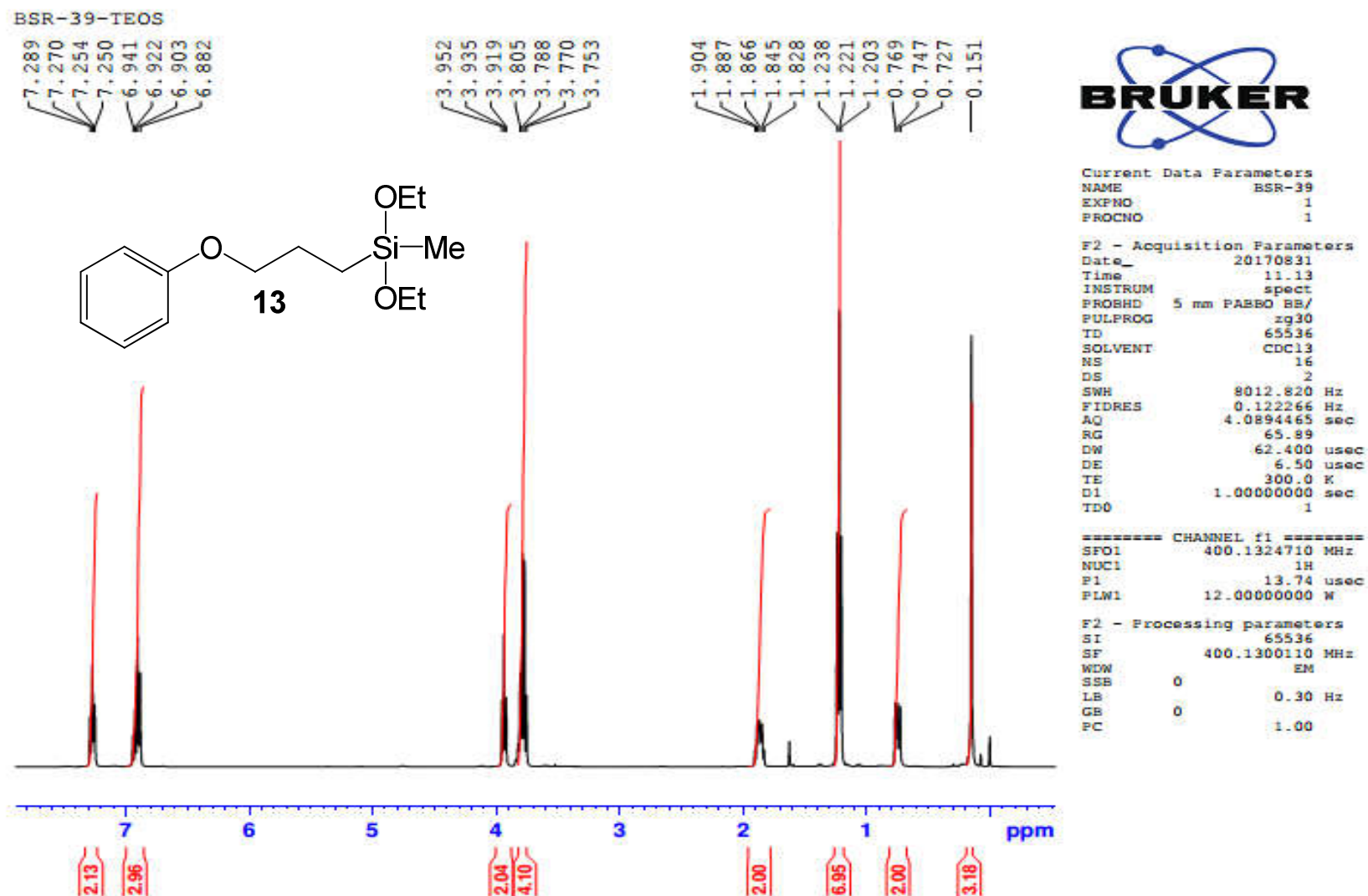
===== GRADIENT CHANNEL =====
GPRAM[1] SMO10.100
GPRAM[2] SMO10.100
GPRAM[3] SMO10.100
GP11 31.00 %
GP12 31.00 %
GP13 31.00 %
P14 1000.00 used

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Methyl 4-[3-(triethoxysilyl)propoxy]benzoate (**12k**) – HR-ESIMS $[M+Na]^+$ Calculated 379.1547; Observed 379.1548.

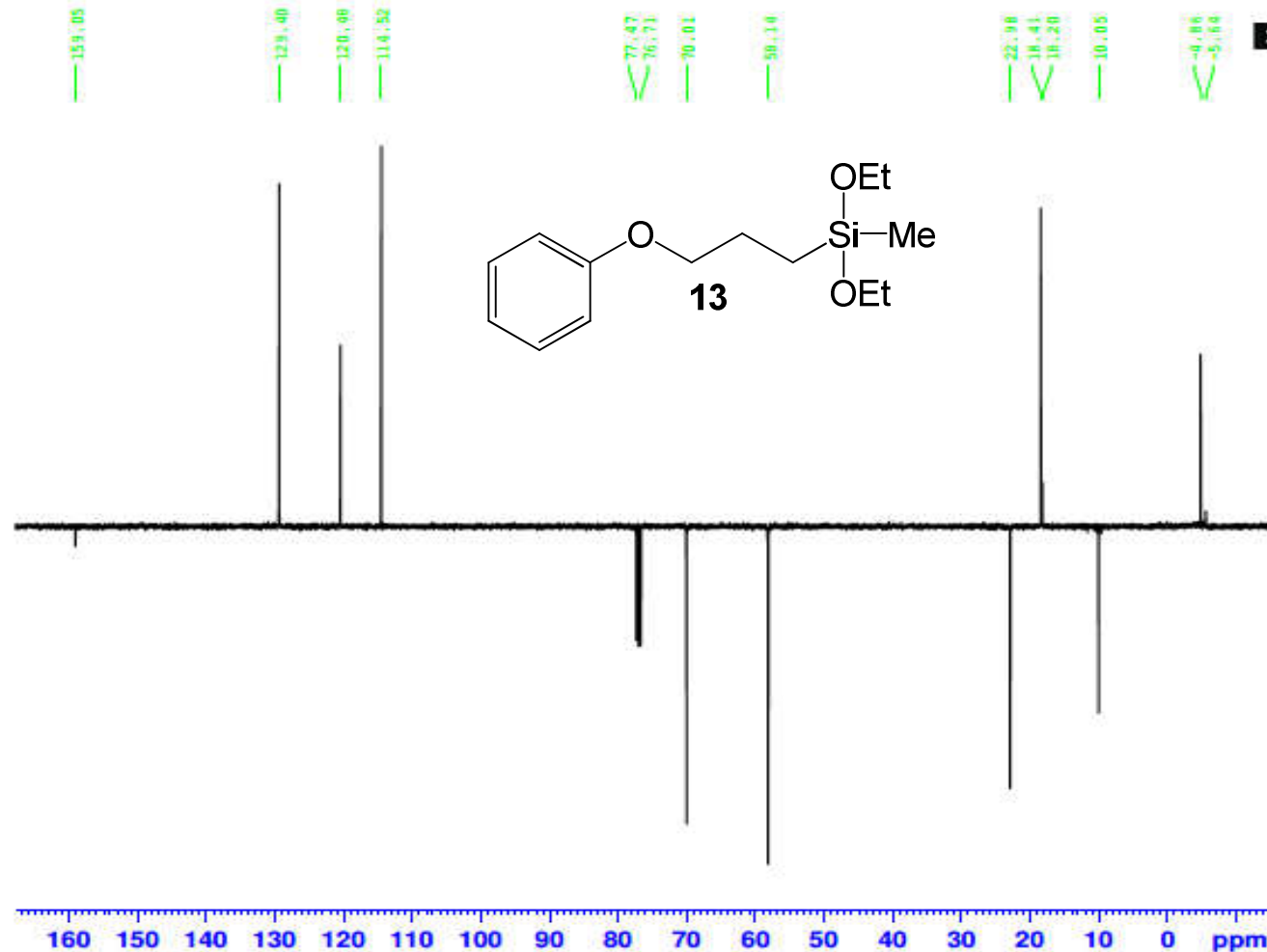


Diethoxy(methyl)(3-phenoxypropyl)silane (**13**) – ^1H -NMR (CDCl_3 , 400 MHz)



Diethoxy(methyl)(3-phenoxypropyl)silane (**13**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-39-TEOS_CARBN



Current Data Parameters
NAME BSR-39
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170831
Time 11.41
INSTRUM spect
PROBHD 5 mm PASPO 25/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 154
DS 8
SWH 24038.441 Hz
FIDRES 0.366798 Hz
AQ 1.3621489 sec
RG 256.83
DW 20.800 used
DE 6.50 used
TE 300.0 K
CHST2 145.000000
CHST12 1.500000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00000000 sec
D16 0.00000000 sec
D28 0 sec
TD0 1

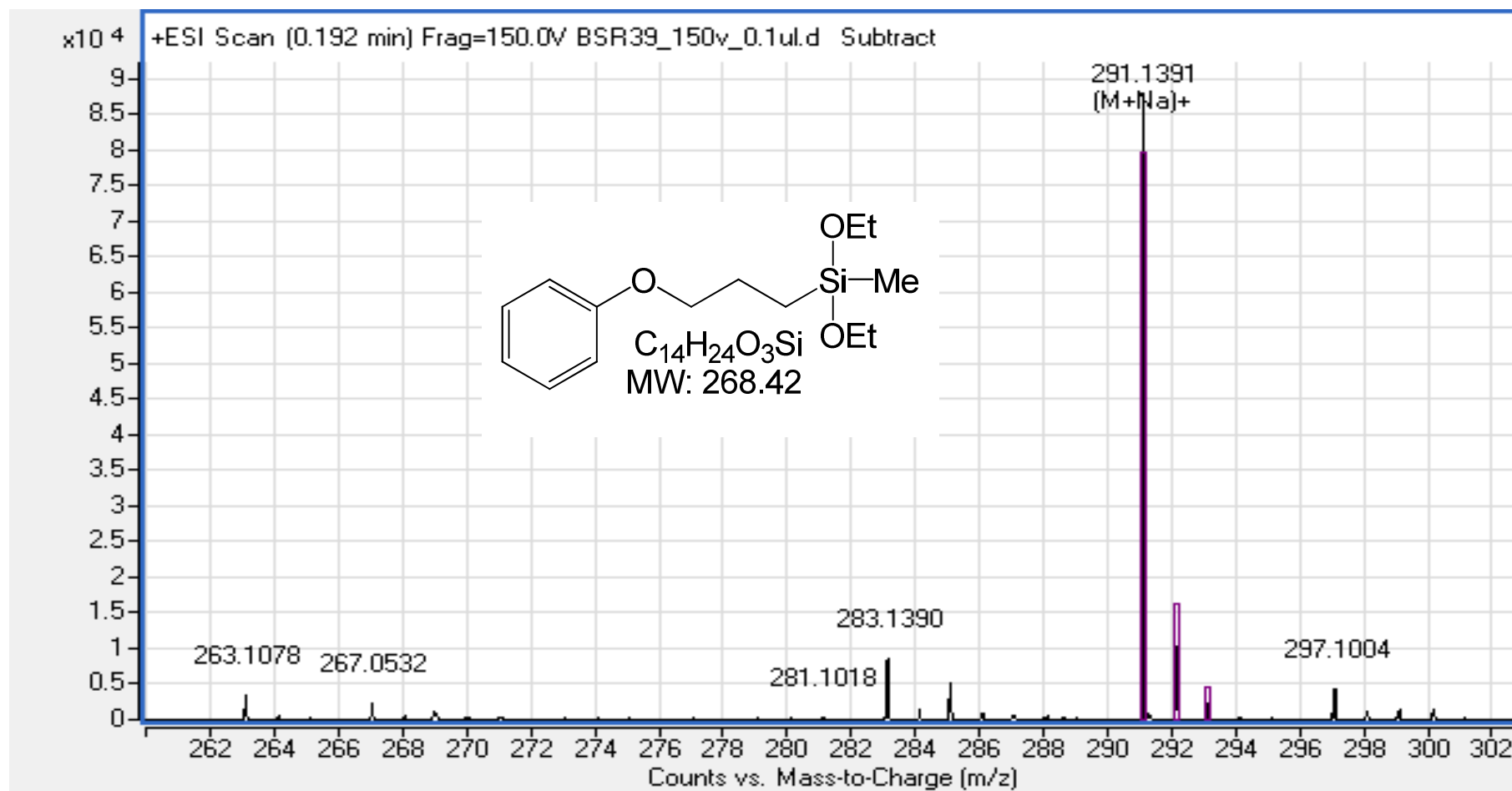
===== CHANNEL f1 =====
SF01 100.6228293 MHz
NUC1 13C
P1 10.00 used
P13 2000.00 used
PLN0 0 W
PLN1 55.00000000 W
SPNAM[5] Cpt4Gcomp.4
SPDALS 0.500
SPQF25 0 Hz
SPW5 8.40340042 W

===== CHANNEL f2 =====
SF02 400.1316005 MHz
NUC2 1H
CPDPRG[2] waltz16
P2 20.41 used
P3 13.74 used
P4 27.48 used
PCPD2 80.00 used
PLN2 12.00000000 W
PLN12 0.35398000 W
PLN13 0.22455000 W

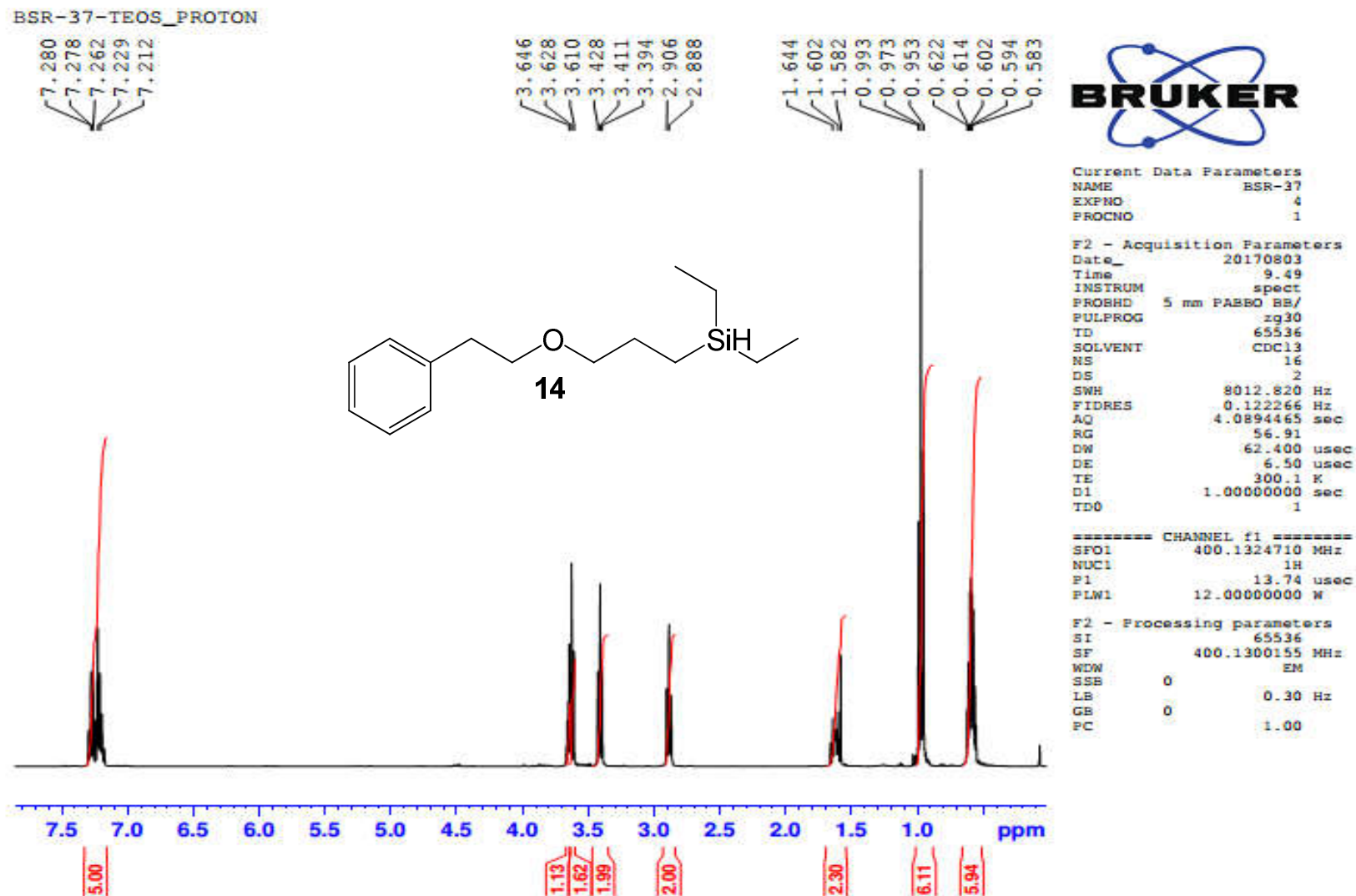
===== GRADIENT CHANNEL =====
GPNAM[1] SMSQ10.100
GPNAM[2] SMSQ10.100
GPNAM[3] SMSQ10.100
GP21 31.00 %
GP22 31.00 %
GP23 31.00 %
P16 1000.00 used

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SFR 0 1.00 Hz
GB 0
PC 1.40

Diethoxy(methyl)(3-phenoxypropyl)silane (**13**) – HR-ESIMS [M+Na]⁺ Calculated 291.1387; Observed 291.1391.

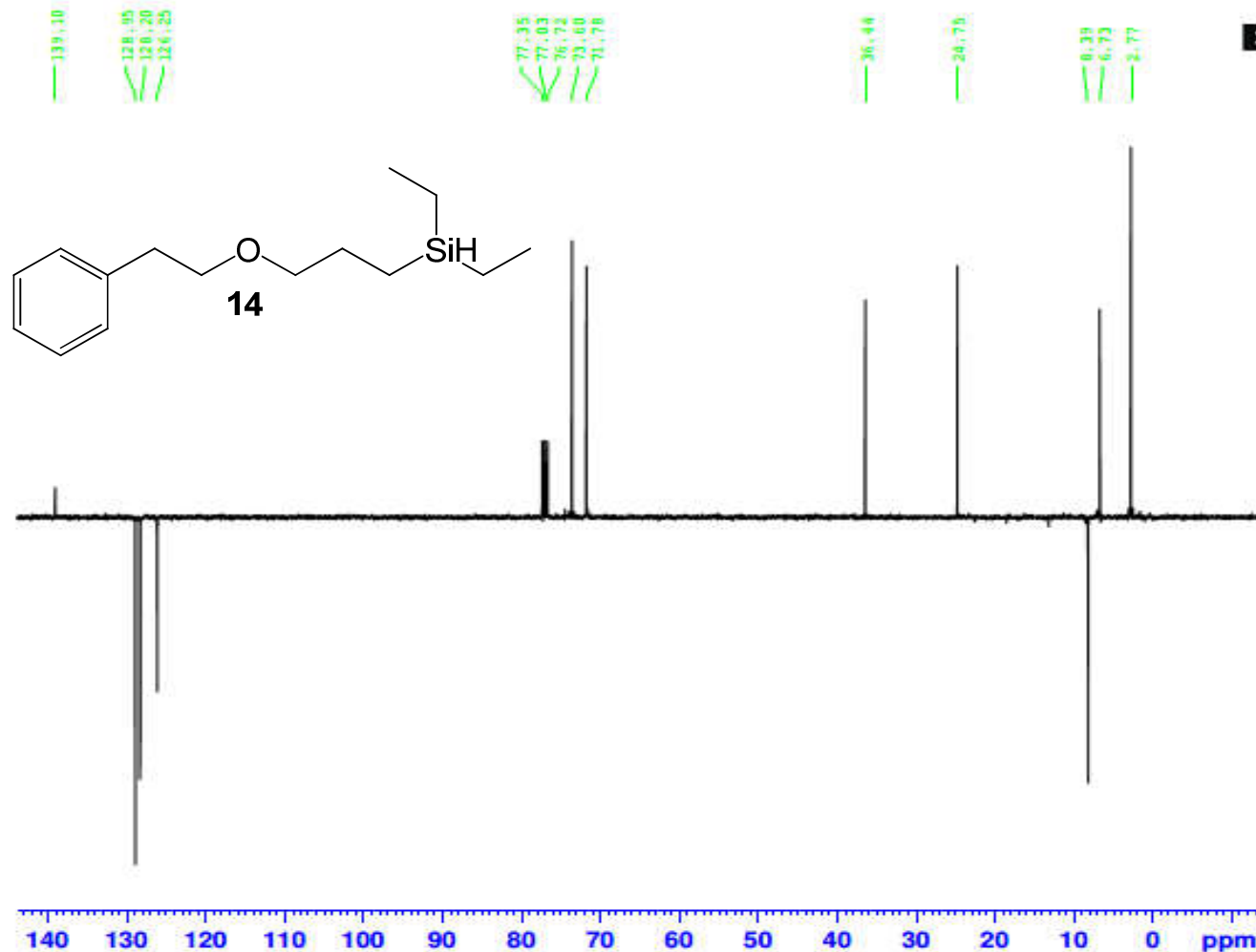


Diethyl(3-phenethoxypropyl)silane (**14**) – ^1H -NMR (CDCl_3 , 400 MHz)



Diethyl(3-phenethoxypropyl)silane (**14**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-37-TEOS_CARBON



Current Data Parameters
NAME BSR-37
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170803
Time 10.12
INSTRUM spect
PROBHD 5 mm PABBO 2H/1
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24038.461 Hz
FIDRES 0.266798 Hz
AQ 1.3631488 sec
RG 106.83
DN 20.800 usec
DE 6.50 usec
TE 300.0 K
CNS12 145.000000
CNS13 1.500000
D1 2.0000000 sec
D2 0.0034828 sec
D12 0.0000000 sec
D14 0.0000000 sec
D28 0 sec
TD0 1

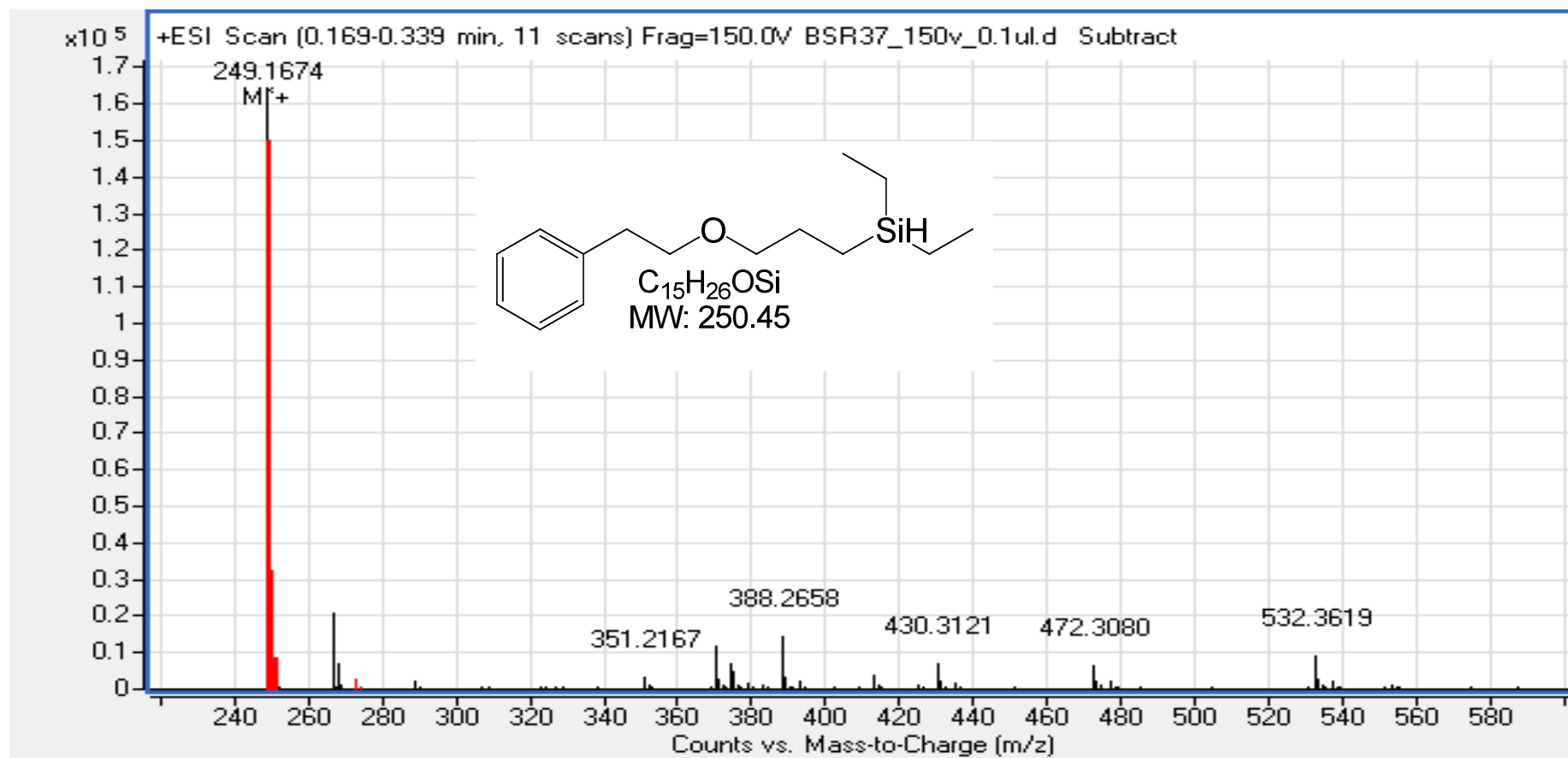
===== CHANNEL f1 =====
SFO1 100.622813 MHz
NUC1 13C
P1 10.00 usec
PL1 0 W
PL12 55.0000000 W
SFO1S1 Crp40comp.4
SFO1S1 0.500
SFO1S1 0 Hz
SFO1S1 8.40340042 W

===== CHANNEL f2 =====
SFO2 400.1314005 MHz
NUC2 1H
COPROG2 zgpg30
P2 20.61 usec
P3 13.74 usec
P4 27.48 usec
PCPD2 80.00 usec
PL12 12.0000000 W
PL12 0.35398000 W
PL13 0.23655000 W

===== GRADIENT CHANNEL =====
GPM1[1] SMSQ10.100
GPM1[2] SMSQ10.100
GPM1[3] SMSQ10.100
GP11 31.00 %
GP12 31.00 %
GP13 31.00 %
PL1 1000.00 usec

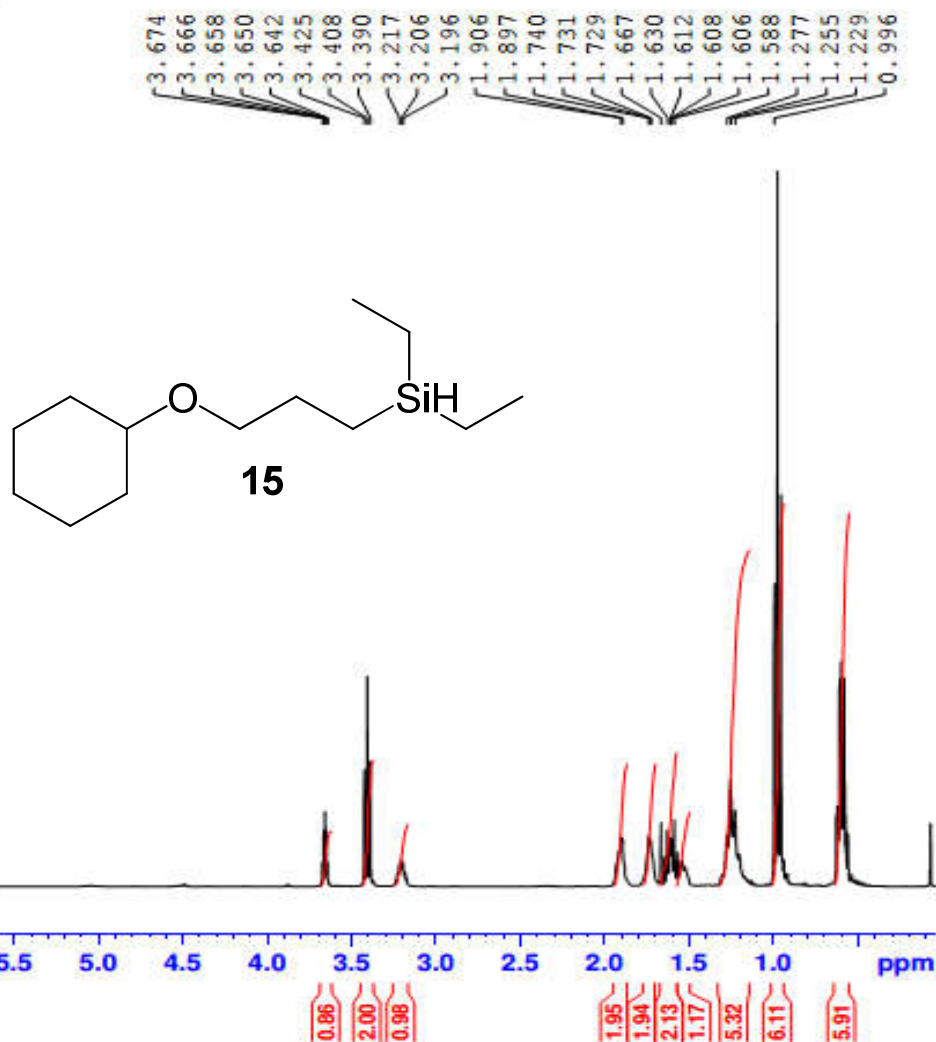
F2 - Processing parameters
SI 32768
SF 100.6227685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Diethyl(3-phenethoxypropyl)silane (**14**) – HR-ESIMS ($[M-H]^+$ Calculated 249.1675; Observed 249.1674.



[3-(Cyclohexyloxy)propyl]diethylsilane (**15**) – ^1H -NMR (CDCl_3 , 400 MHz)

BSR-43_TEOS_PROTON



Current Data Parameters
NAME BSR-43
EXPNO 1
PROCNO 1

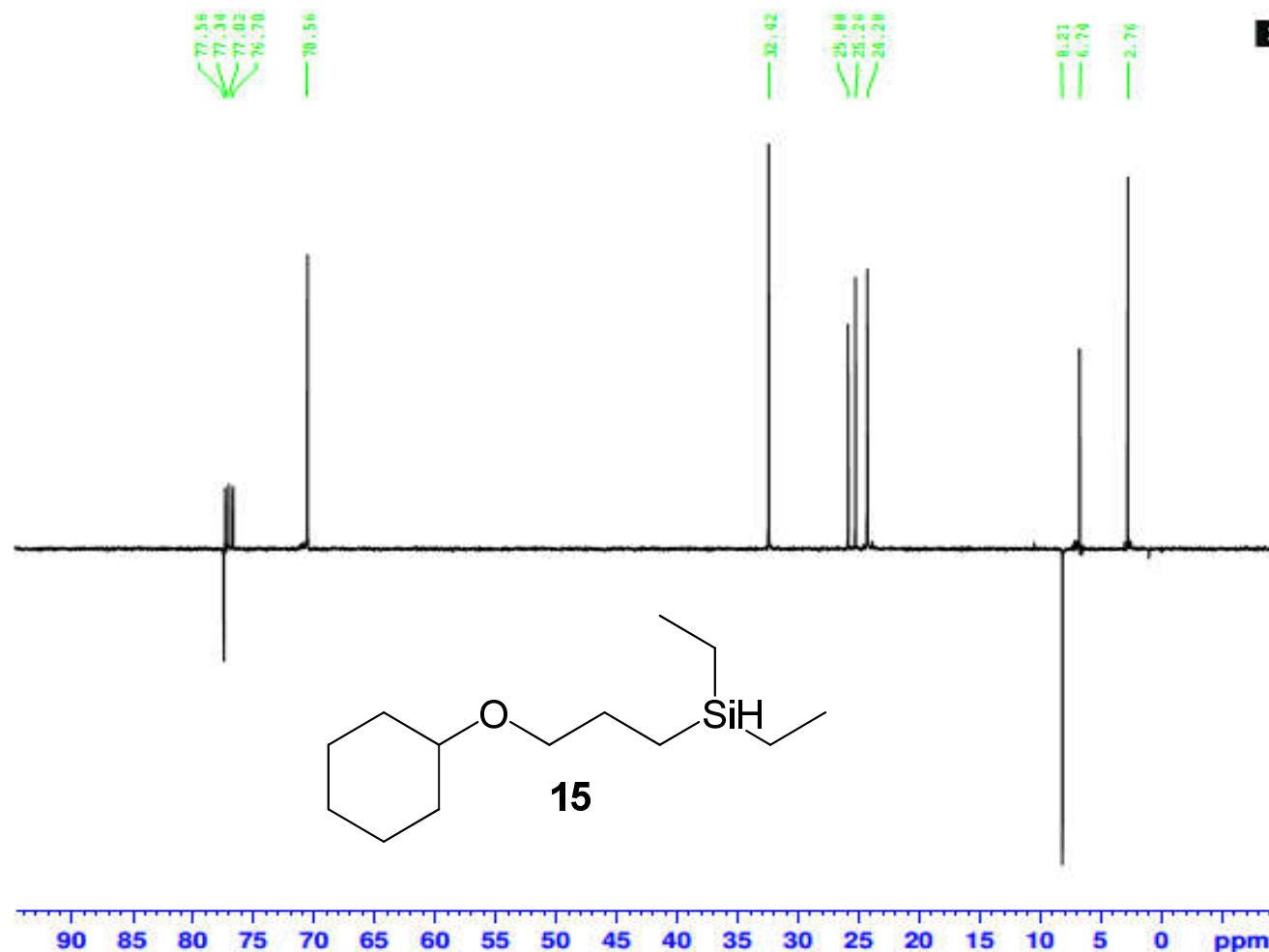
F2 - Acquisition Parameters
Date_ 20170907
Time 11.06
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl_3
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 32.86
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 ^1H
P1 13.74 usec
PLW1 12.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300072 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

[3-(Cyclohexyloxy)propyl]diethylsilane (**15**)— ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-43_TEOS_CARBON



Current Data Parameters
NAME BSR-43
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170927
Time 11.40
INSTRUM spect
PROBHD 5 mm PABBO 50/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 256
DS 8
SWH 24038.461 Hz
FIDRES 0.36798 Hz
AQ 1.3631488 sec
RG 204.83
SN 20.800 used
DS 4.50 used
TE 300.0 K
CST2 145.000000
CST12 1.500000
D1 2.0000000 sec
D2 0.50344828 sec
D12 0.0002000 sec
D16 0.0002000 sec
D28 0 sec
TD0 1

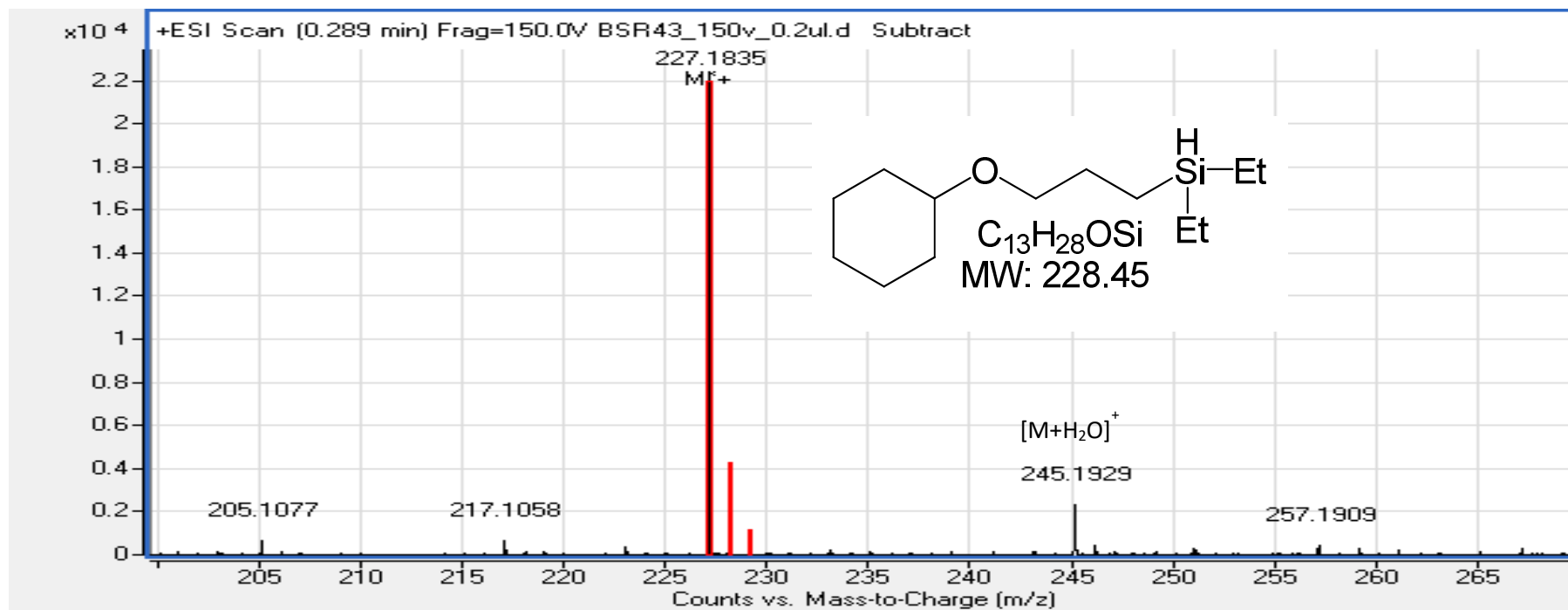
===== CHANNEL f1 =====
SF01 100.6228293 MHz
NUC1 13C
P1 10.00 used
P13 2000.00 used
PL10 0 W
PL11 55.0000000 W
SFO1[5] Exp60exp. 4
SFO1[5] 0.500
SFO1[5] 0 Hz
SFO1[5] 8.40340542 W

===== CHANNEL f2 =====
SF02 400.1314005 MHz
NUC2 1H
CPDPRG2 waltz16
P2 20.61 used
P3 13.74 used
P4 27.48 used
PCPD2 40.00 used
PL12 11.0000000 W
PL13 0.35398000 W
PL14 0.22455000 W

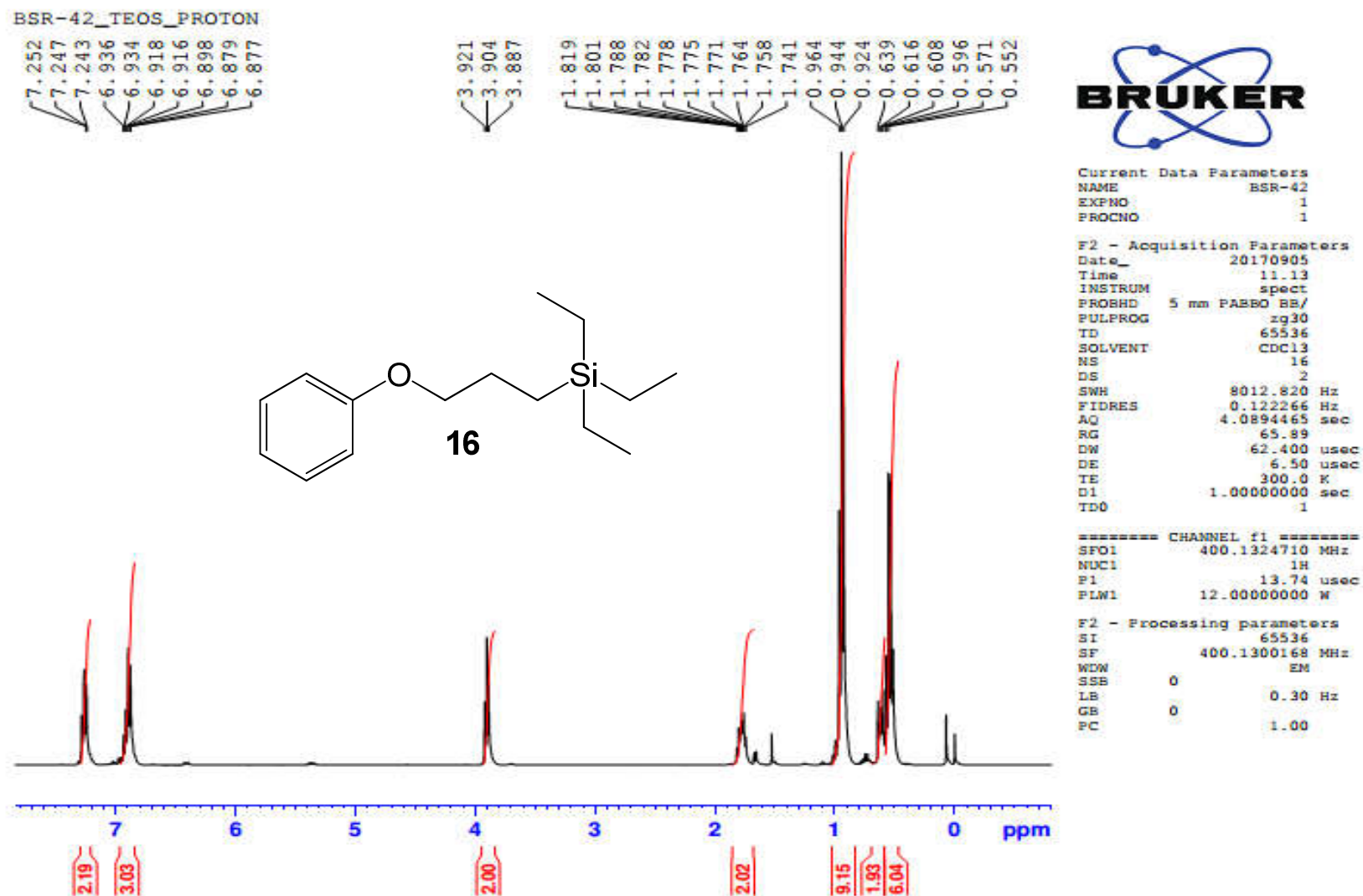
===== GRADIENT CHANNEL =====
GPHAM[1] SMSQ10.100
GPHAM[2] SMSQ10.100
GPHAM[3] SMSQ10.100
GPE1 31.00 %
GPE2 31.00 %
GPE3 31.00 %
P16 1000.00 used

F2 - Processing parameters
SI 32768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

[3-(Cyclohexyloxy)propyl]diethylsilane (**15**) – HR-ESIMS [M-H]⁺ Calculated 227.1831; Observed 227.1835.

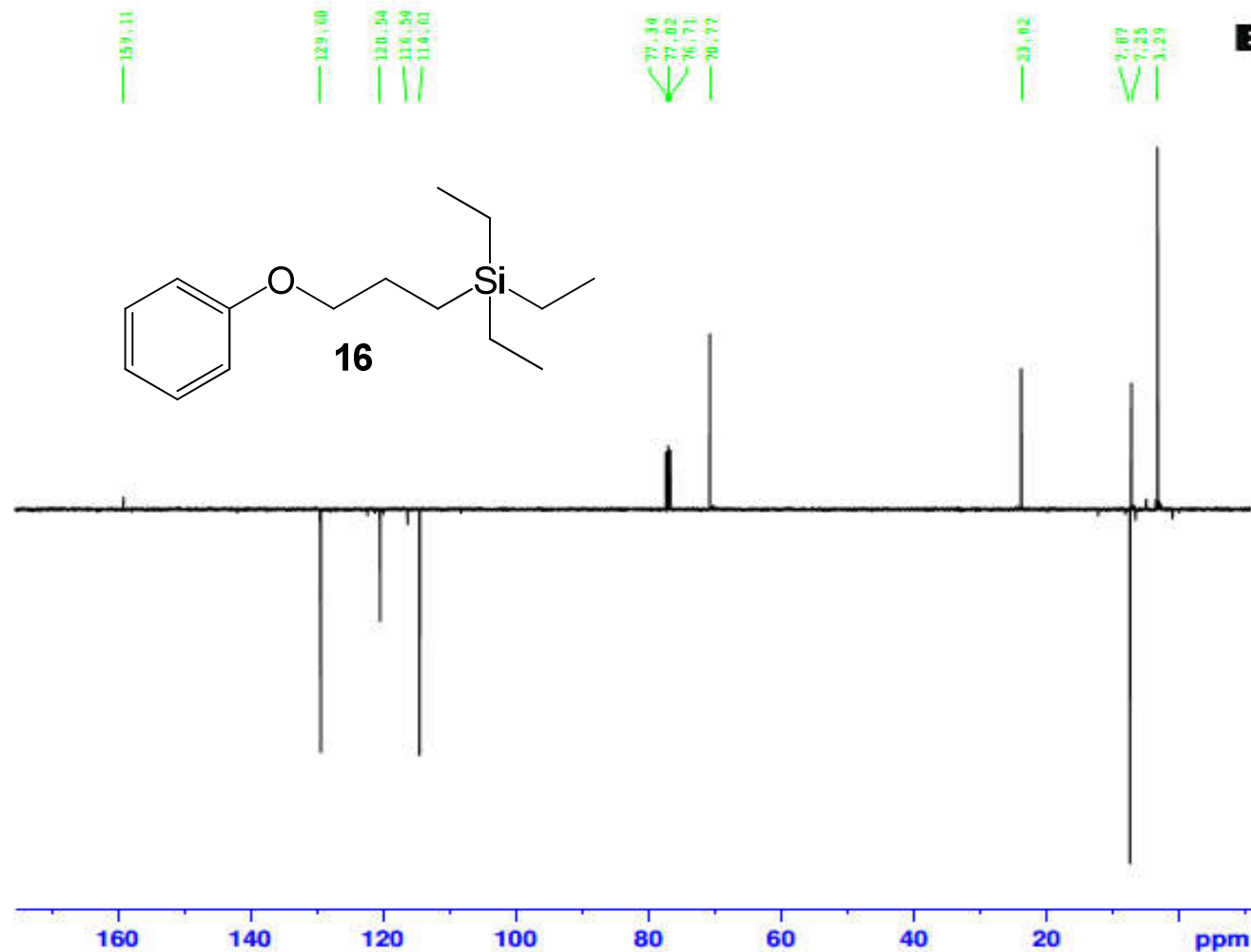


Triethyl(3-phenoxypropyl)silane (**16**) – ^1H -NMR (CDCl_3 , 400 MHz)



Triethyl(3-phenoxypropyl)silane (**16**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSR-42_TEOS_CARBON



Current Data Parameters
NAME BSR-42
EXPNO 3
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170905
Time 11.36
INSTRUM spect
PROBHD 5 mm PABBO 52/
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 356
DS 8
SWH 24038.441 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 206.83
RW 20.800 usec
DE 6.50 usec
TE 300.0 K
CNST12 145.0000000
CNST12 1.5000000
D1 2.00000000 sec
D2 0.00344828 sec
D12 0.00001000 sec
D16 0.00020000 sec
D28 0 sec
TD0 1

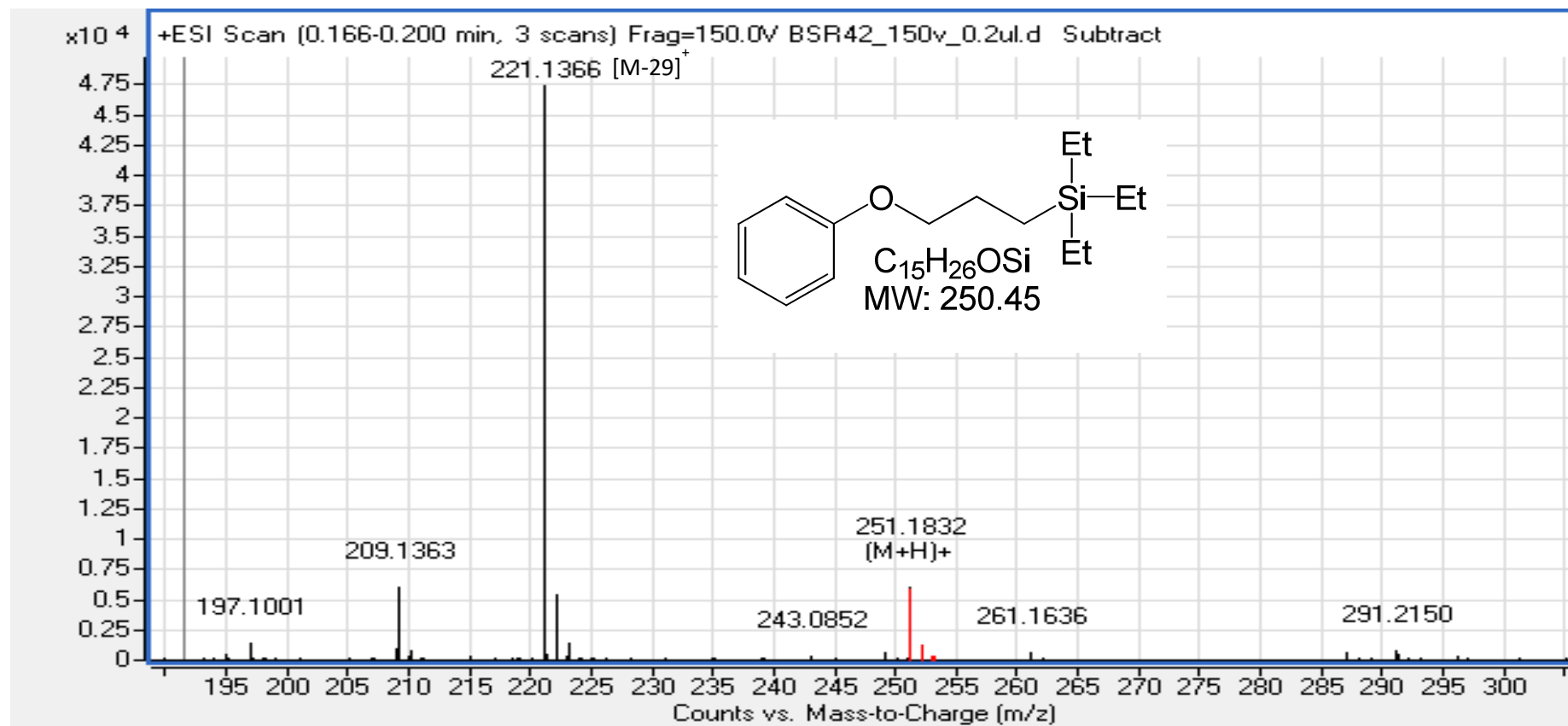
----- CHANNEL f1 -----
SFO1 100.6228293 MHz
NUC1 13C
P1 10.00 usec
PL1 0 W
PLW1 55.00000000 W
SFO1S5 Crp40comp.4
SFO1S5 0 Hz
SFO1S5 8.40340042 W

----- CHANNEL f2 -----
SFO2 400.1316005 MHz
NUC2 1H
PCPDPRG12 waltz16
P3 20.41 usec
P4 13.74 usec
P5 27.48 usec
PCPD3 80.00 usec
PLW2 12.00000000 W
PLW12 0.35398000 W
PLW13 0.22655000 W

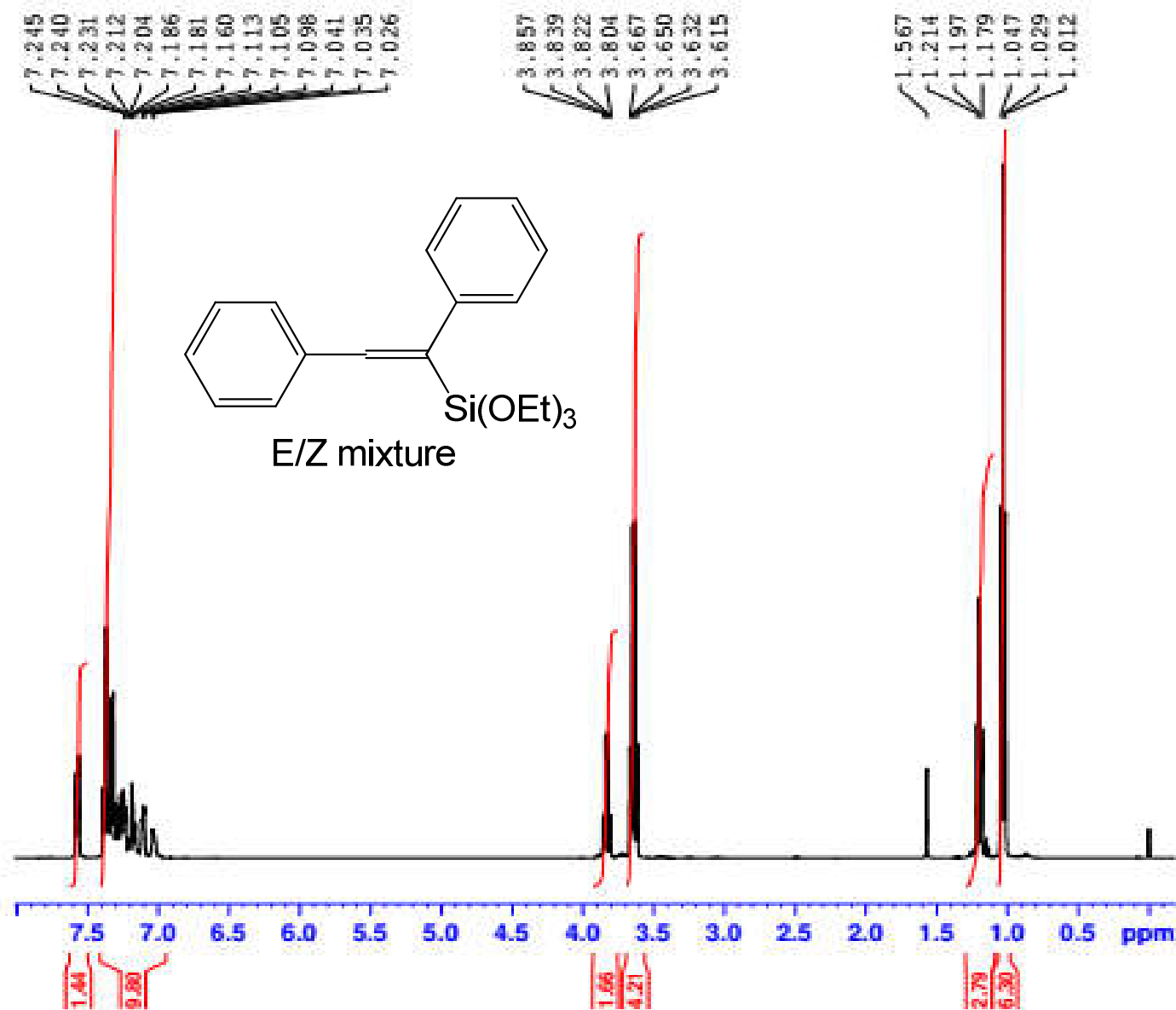
----- GRADIENT CHANNEL -----
GPMAN[1] SMSQ10.100
GPMAN[2] SMSQ10.100
GPMAN[3] SMSQ10.100
GP11 31.00 %
GP12 31.00 %
GP13 31.00 %
P16 1000.00 usec

F2 - Processing parameters
SI 31768
SF 100.6127685 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

Triethyl(3-phenoxypropyl)silane (**16**) – HR-ESIMS [M+H]⁺ Calculated 251.1826; Observed 251.1832.



(*E/Z*)-(1,2-diphenylvinyl)triethoxysilane (**17**) – ^1H -NMR (CDCl_3 , 400 MHz)



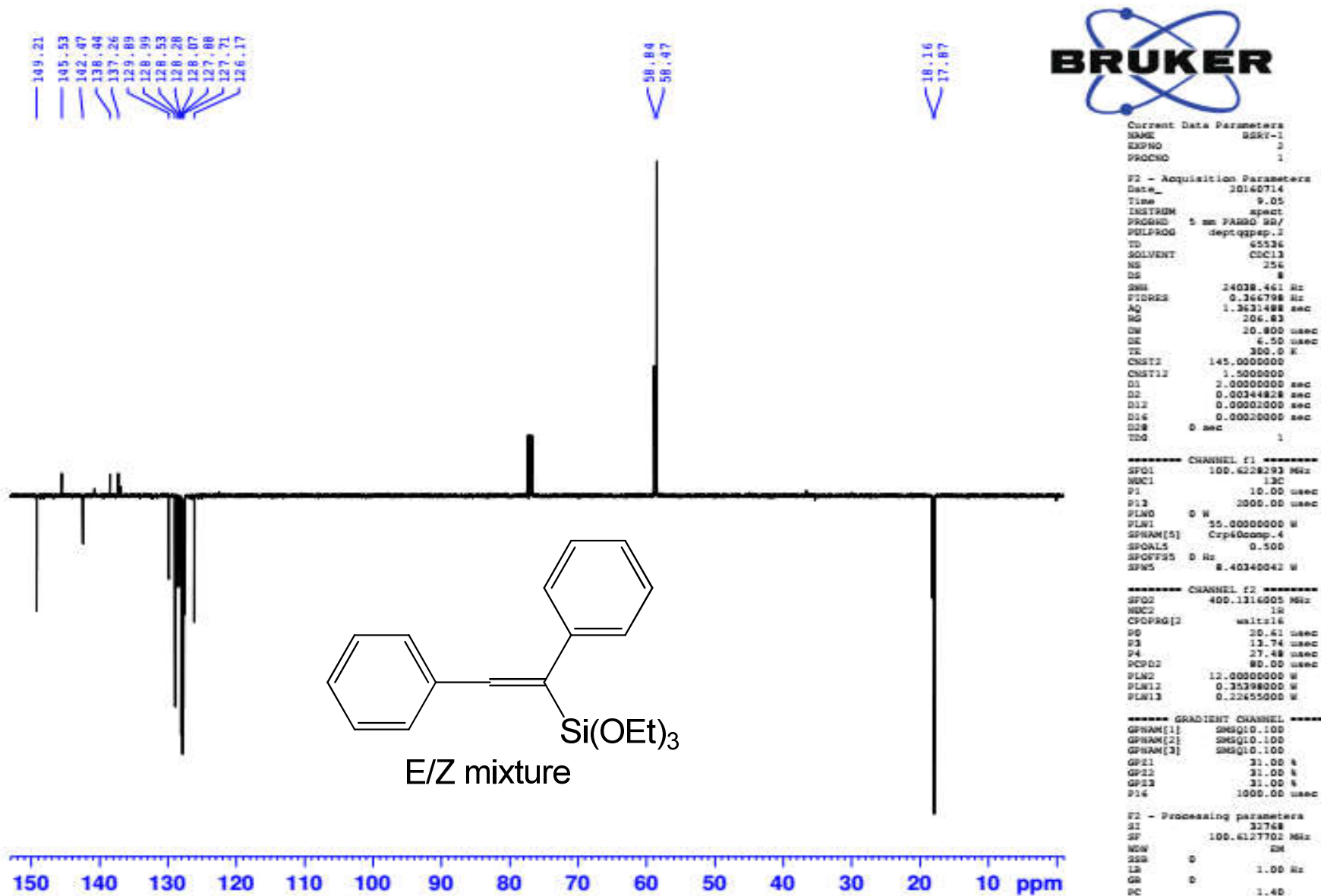
Current Data Parameters
NAME BERY-1
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20180714
Time 8.35
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl_3
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894485 sec
RG 56.91
DN 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

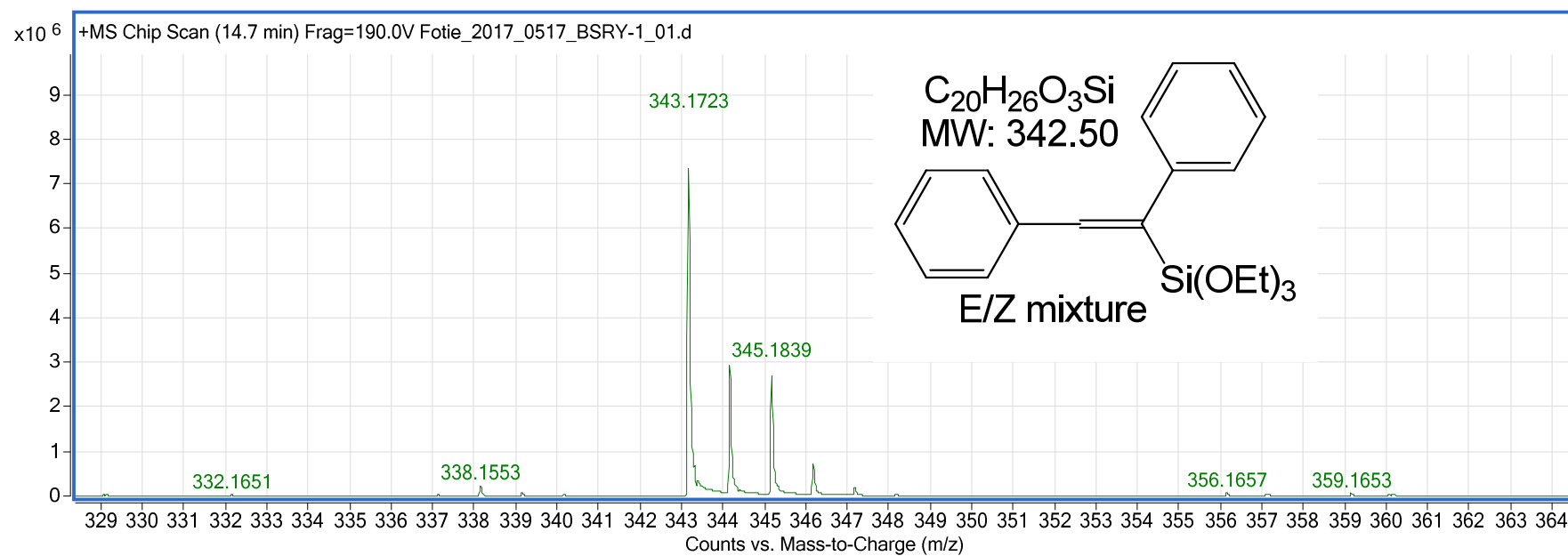
----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 ^1H
P1 13.74 usec
PLW1 12.00000000 W

F2 - Processing parameters
SI 65536
SF 400.1300176 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

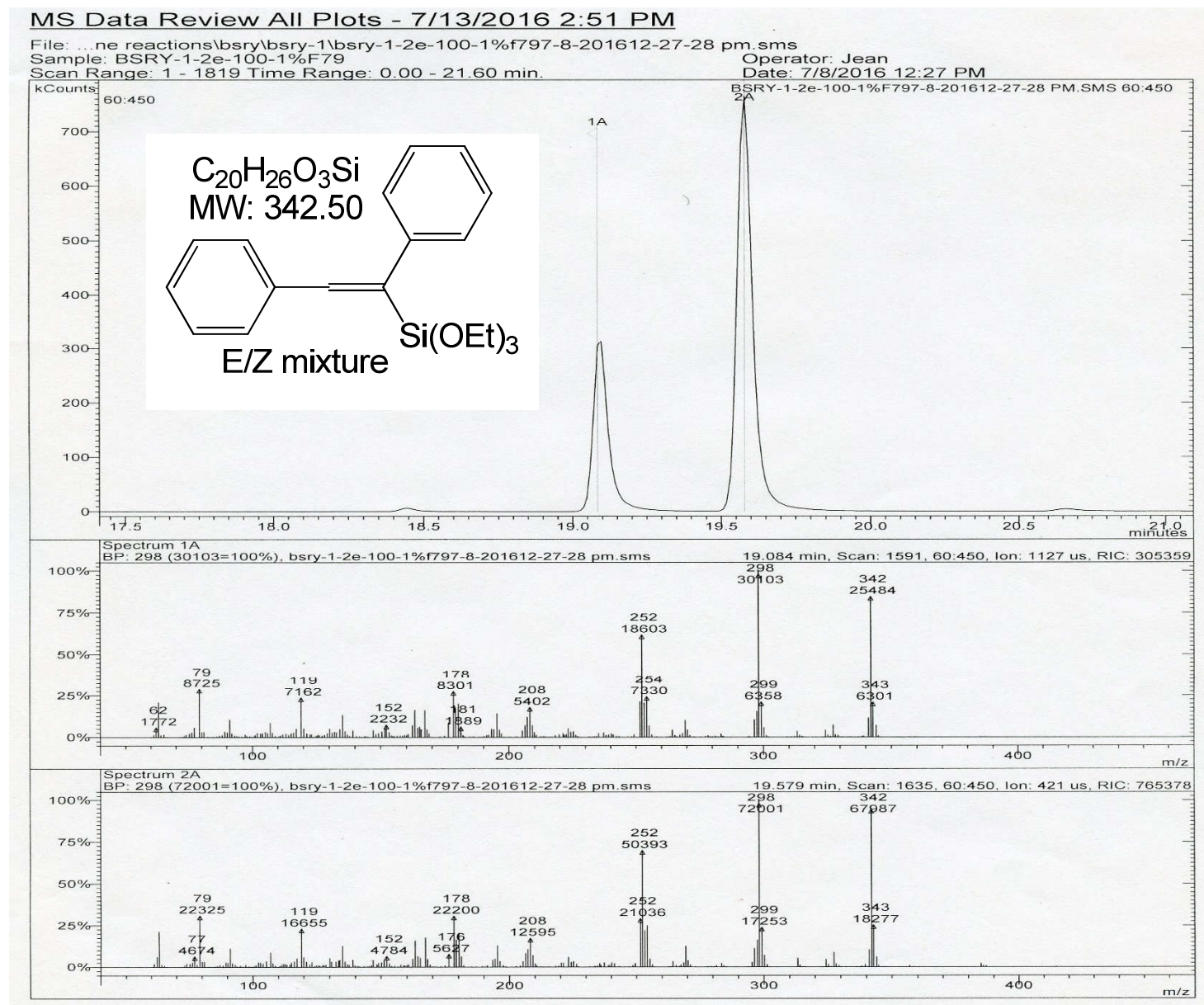
(E/Z)-(1,2-diphenylvinyl)triethoxysilane (**17**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



(*E/Z*)-(1,2-diphenylvinyl)triethoxysilane (**17**) – HR-ESIMS [M+H]⁺ Calculated 343.1724; Observed 343.1723.



(E/Z)-(1,2-diphenylvinyl)triethoxysilane (**17**) – GC-MS (showing the mixture of E/Z isomers)



(E/Z)-triethoxy(hex-3-en-3-yl)silane (**18**)– ^1H -NMR (CDCl_3 , 400 MHz)

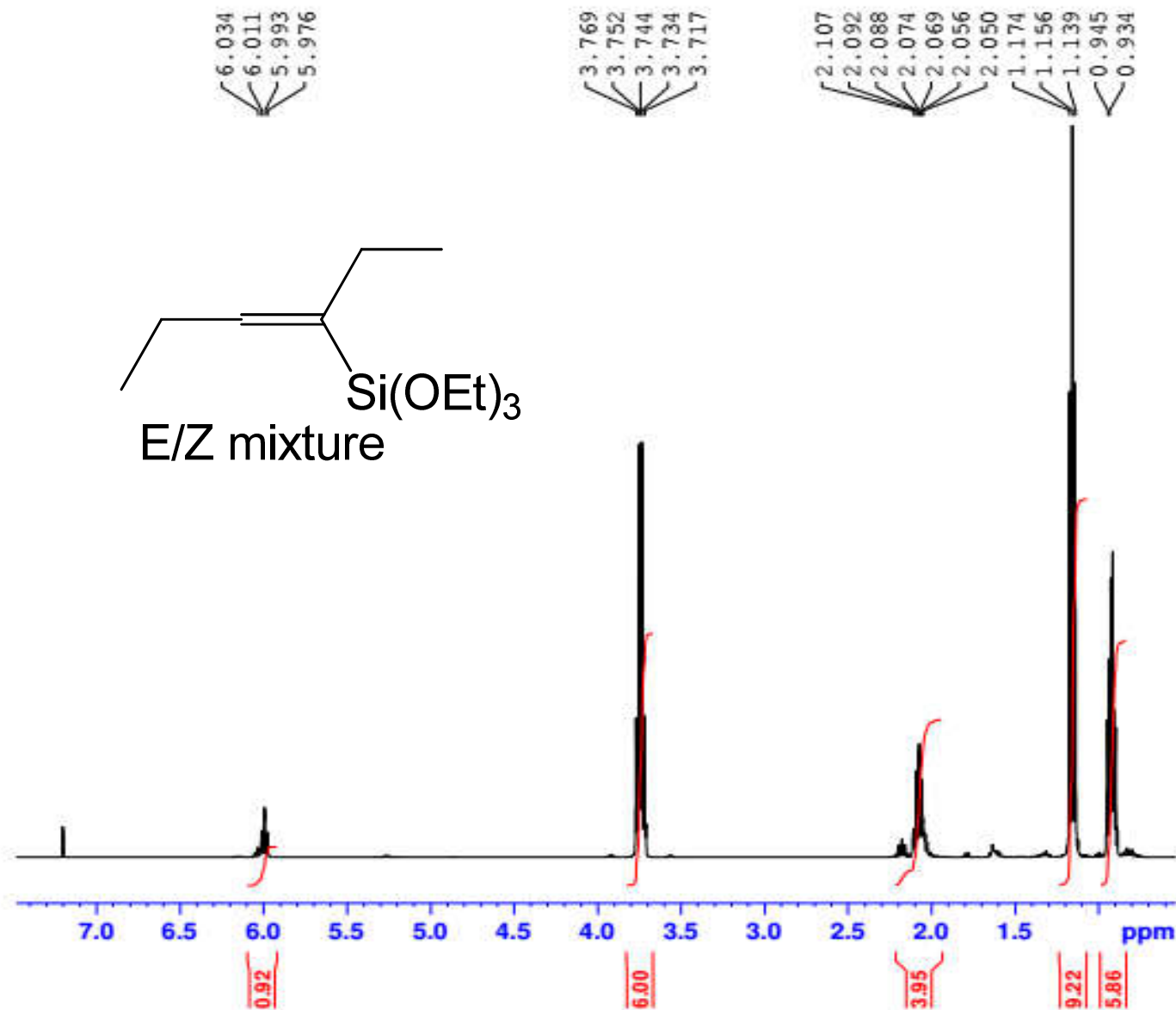


Current Data Parameters
NAME BSRV-5
EXPNO 1
PROCNO 1

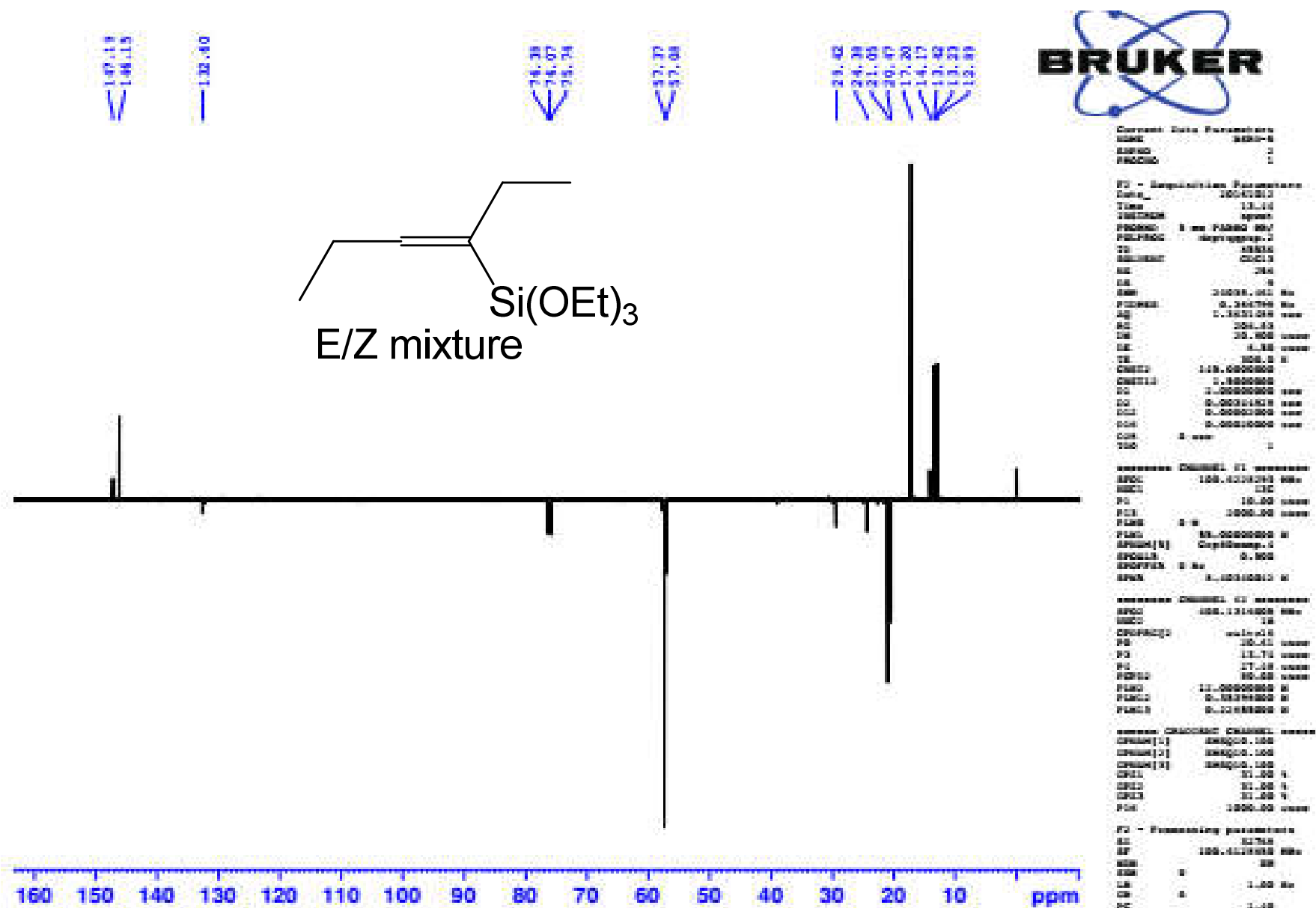
F2 - Acquisition Parameters
Date_ 20161012
Time 13.02
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl_3
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.089465 sec
RG 32.86
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.1324710 MHz
NUC1 ^1H
P1 13.74 usec
PLW1 12.00000000 W

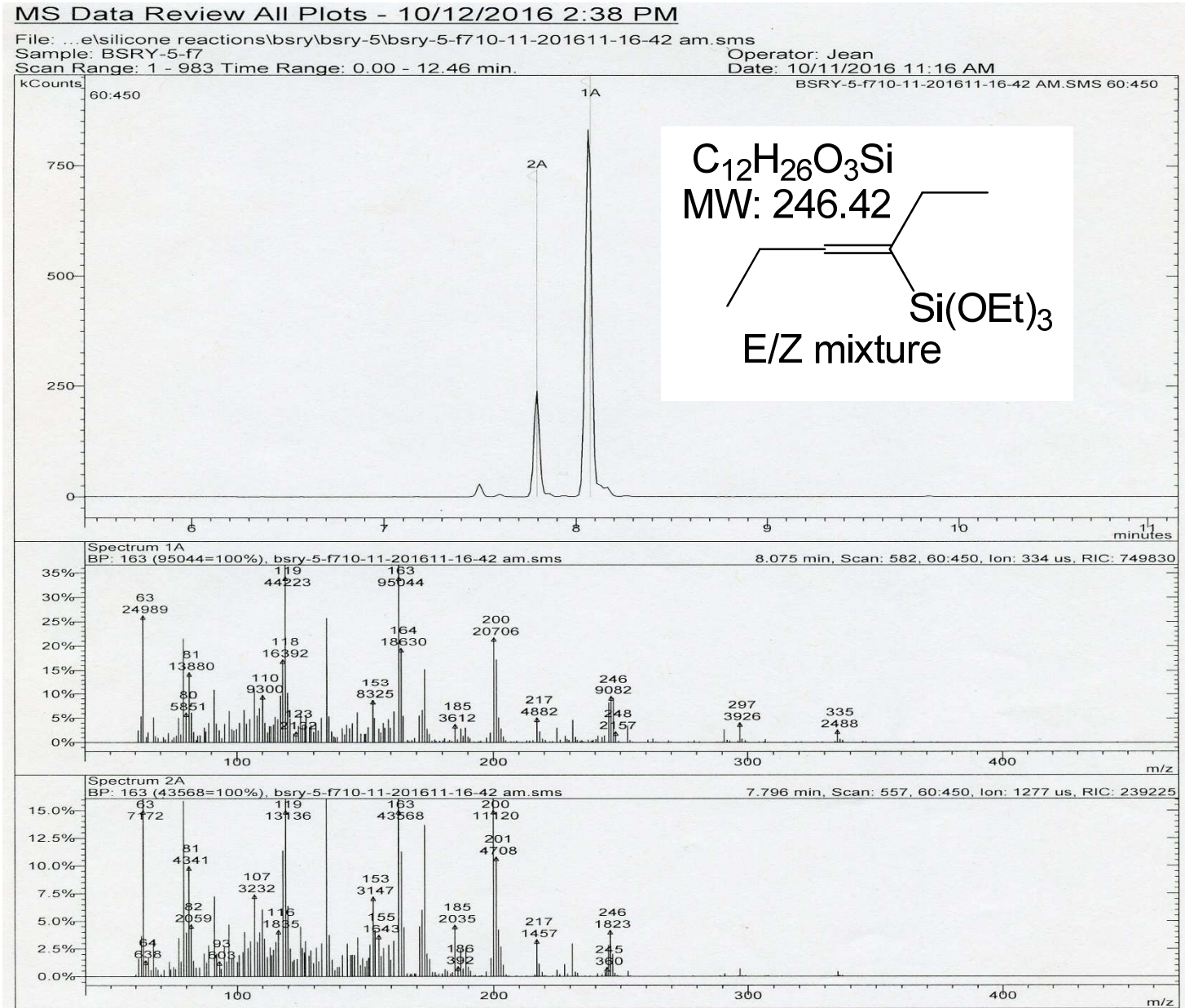
F2 - Processing parameters
SI 65536
SF 400.1300331 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



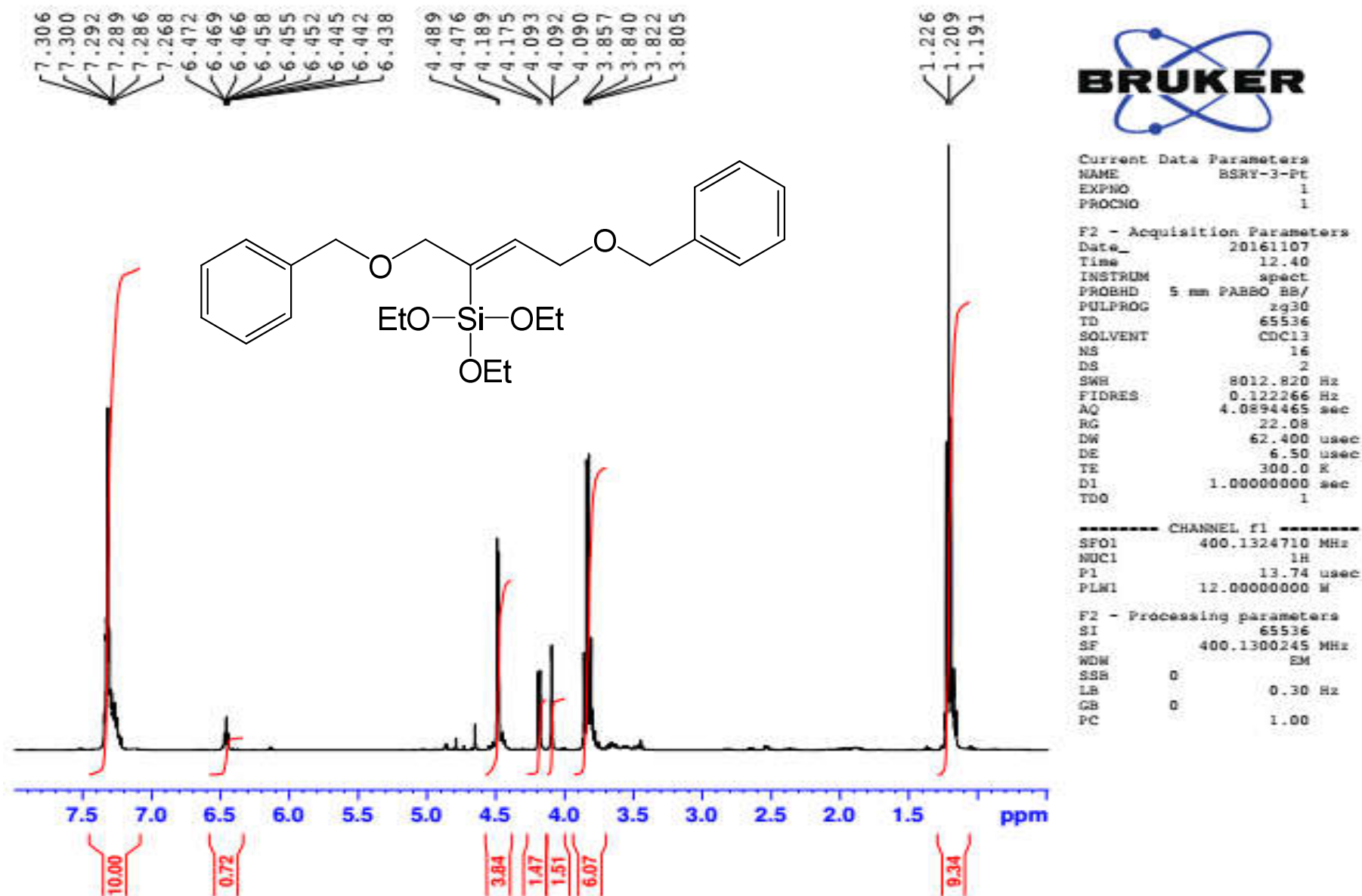
(E/Z)-triethoxy(hex-3-en-3-yl)silane (**18**)– ^{13}C -NMR (CDCl_3 , 100 MHz)



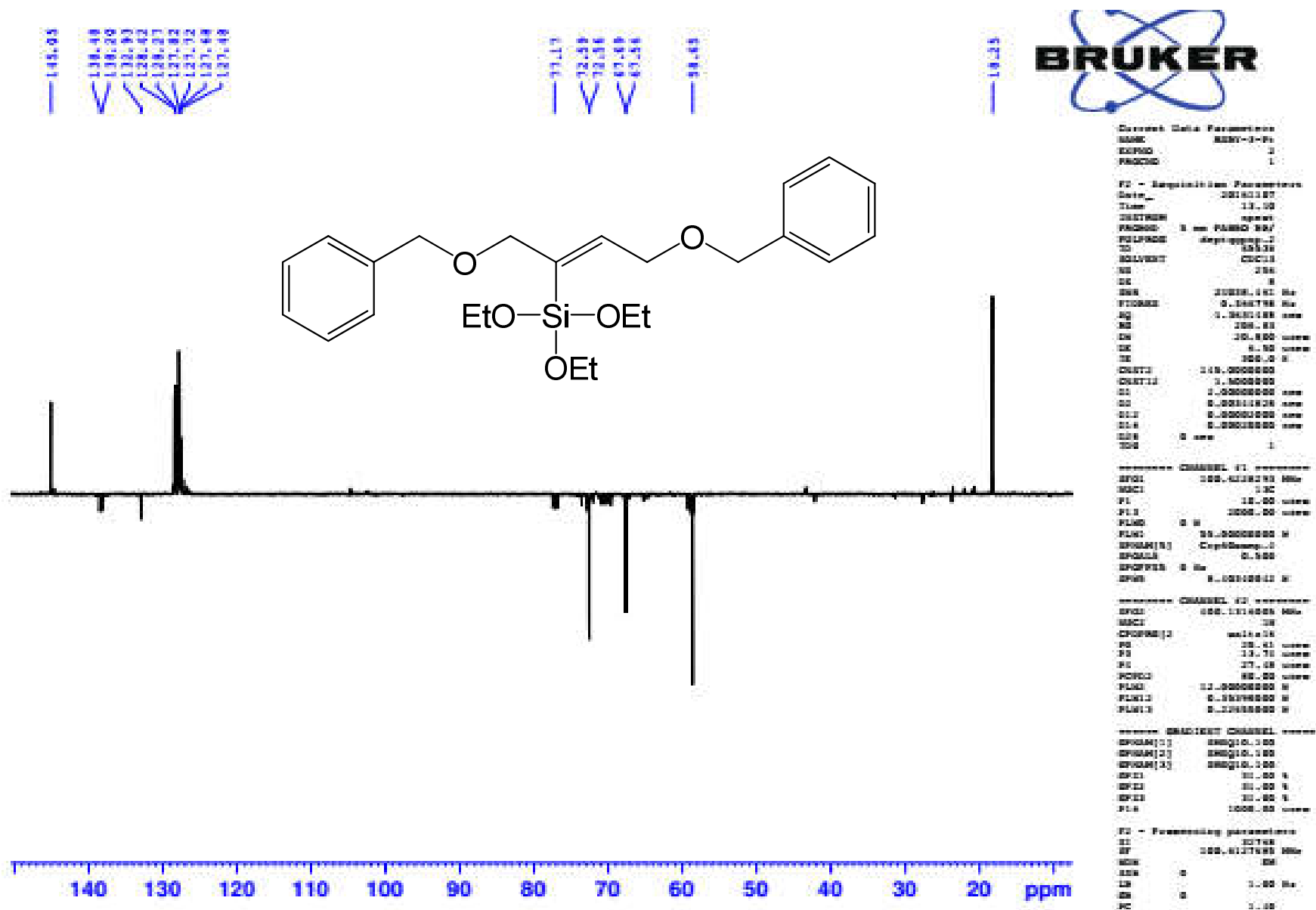
(E/Z)-triethoxy(hex-3-en-3-yl)silane (**18**)– GC-MS (showing the mixture of isomers)



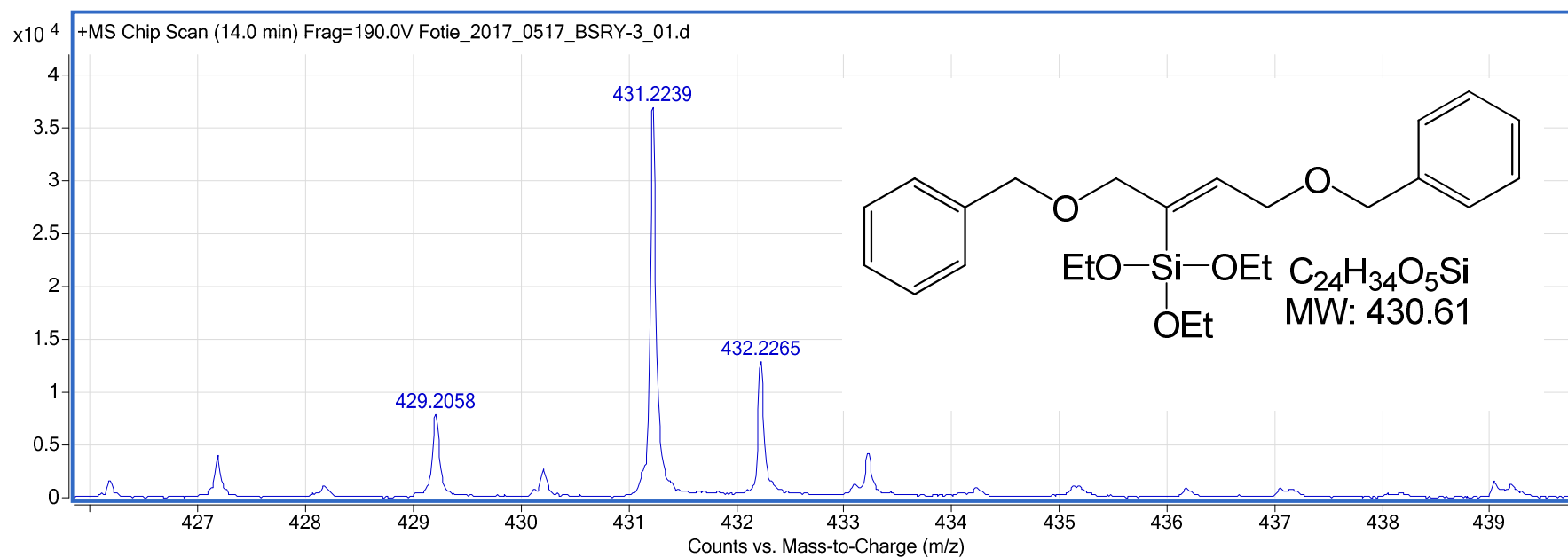
(Z)-(1,4-bis(benzyloxy)but-2-en-2-yl)triethoxysilane (**19**) – ^1H -NMR (CDCl_3 , 400 MHz)



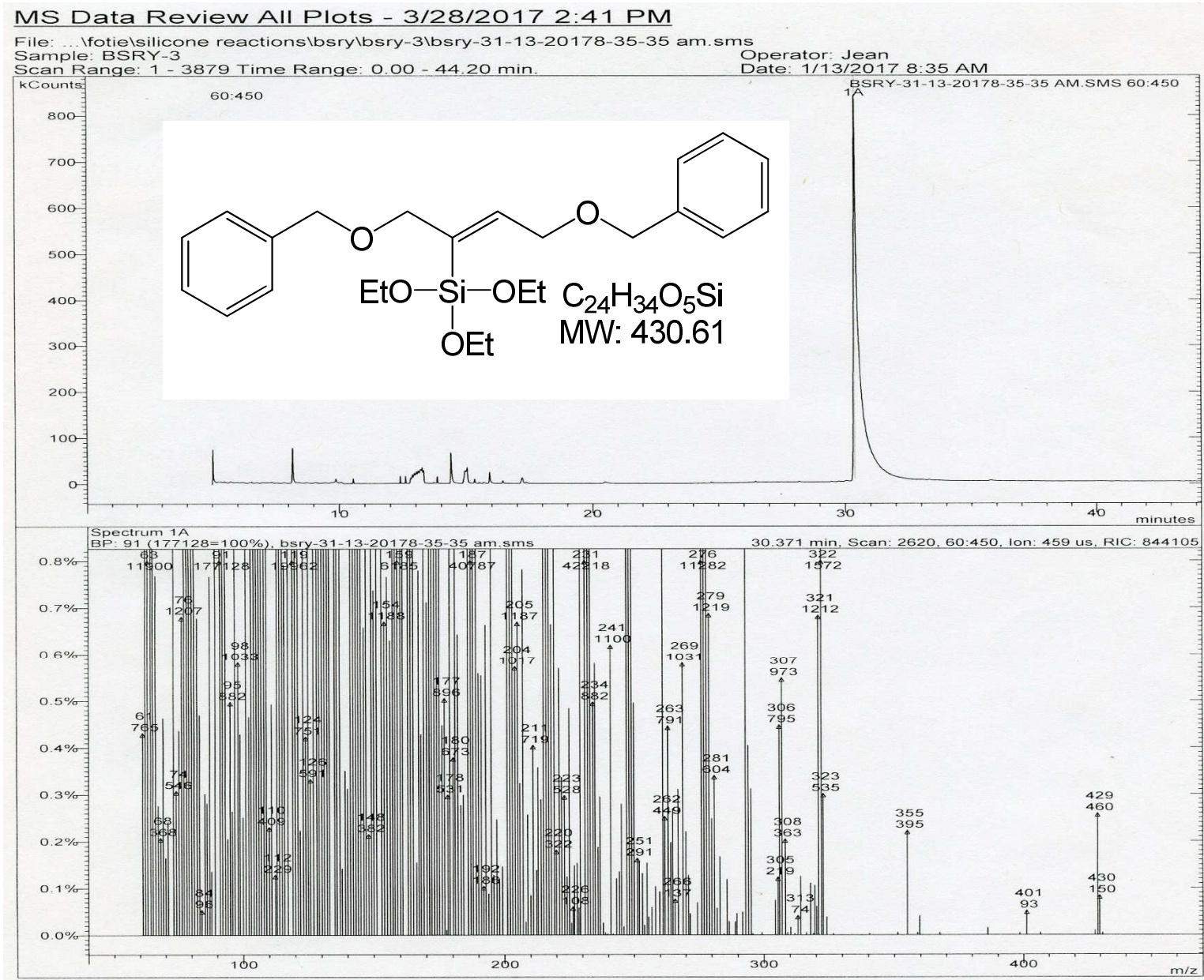
88 | Page



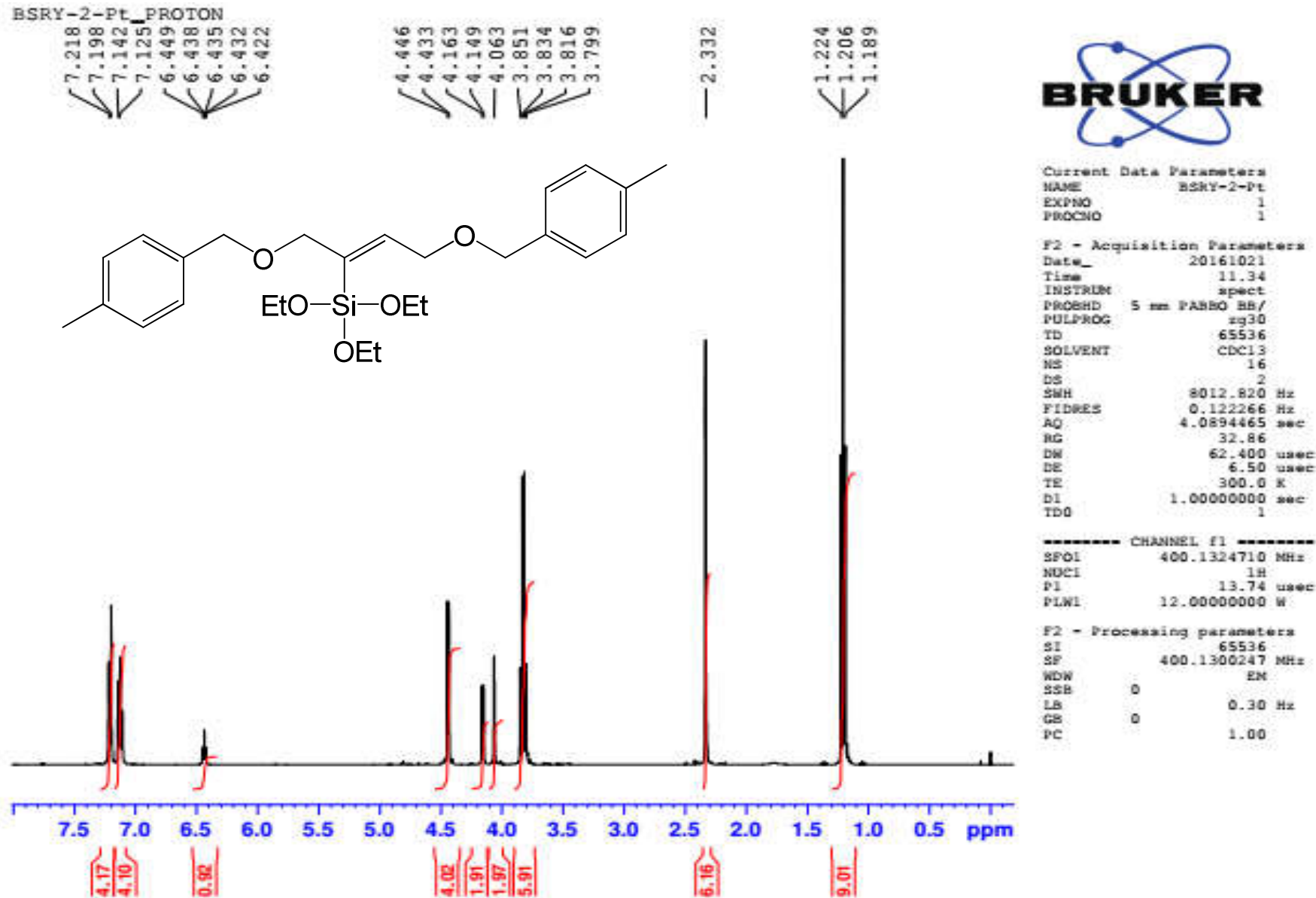
(Z)-(1,4-bis(benzyloxy)but-2-en-2-yl)triethoxysilane (**19**) – HR-ESIMS [M+H]⁺ Calculated 431.2248; Observed 431.2239.



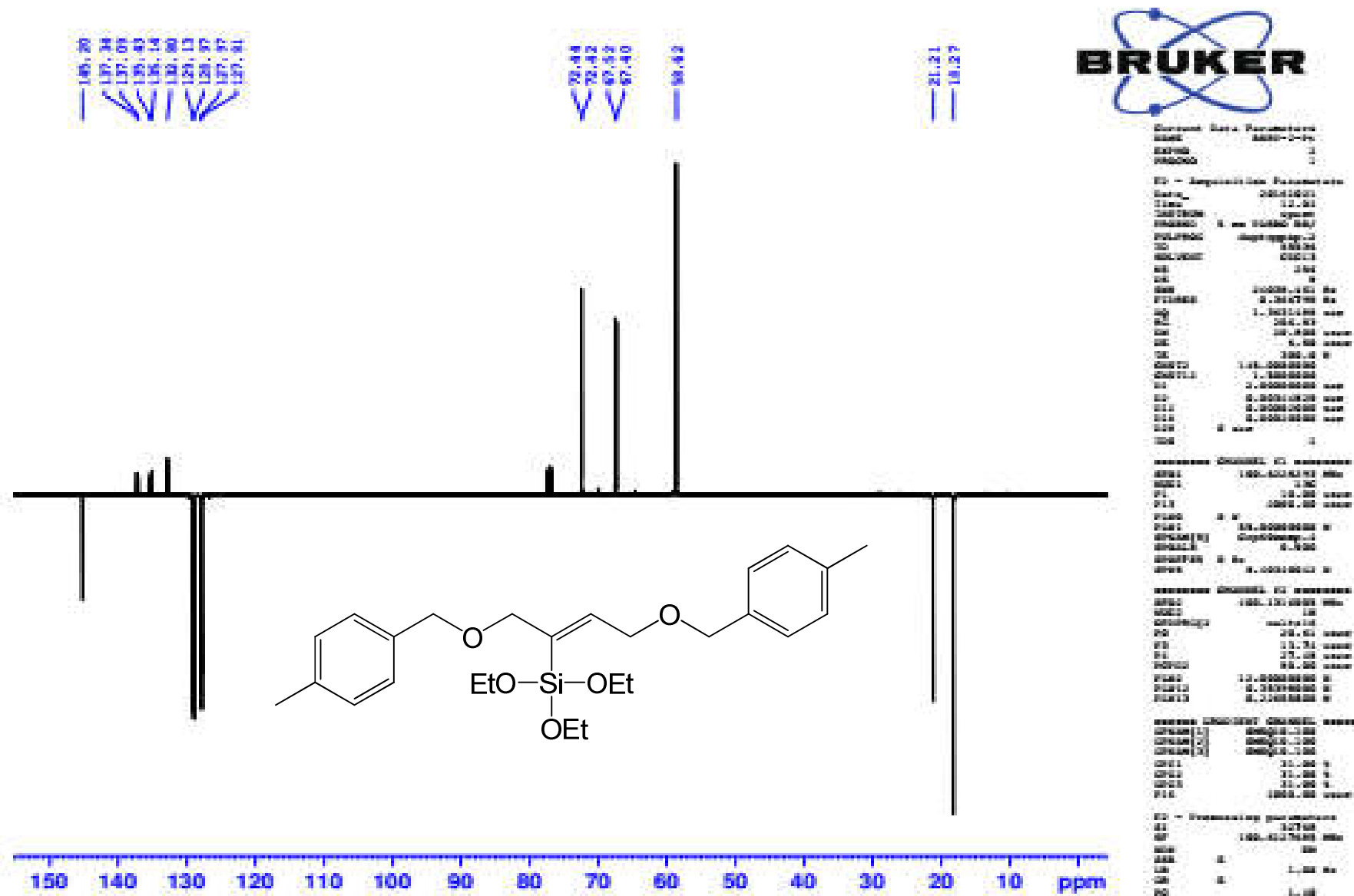
(Z)-(1,4-bis(benzyloxy)but-2-en-2-yl)triethoxysilane (**19**) – GC-MS (showing a single product)



(Z)-(1,4-bis(4-methylbenzyloxy)but-2-en-2-yl)triethoxysilane (**20**) – ^1H -NMR (CDCl_3 , 400 MHz)



(Z)-(1,4-bis(4-methylbenzyloxy)but-2-en-2-yl)triethoxysilane (**20**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



(Z)-(1,4-bis(4-methylbenzyloxy)but-2-en-2-yl)triethoxysilane (**20**) – GC-MS (showing a single product)

MS Data Review All Plots - 10/24/2016 1:14 PM

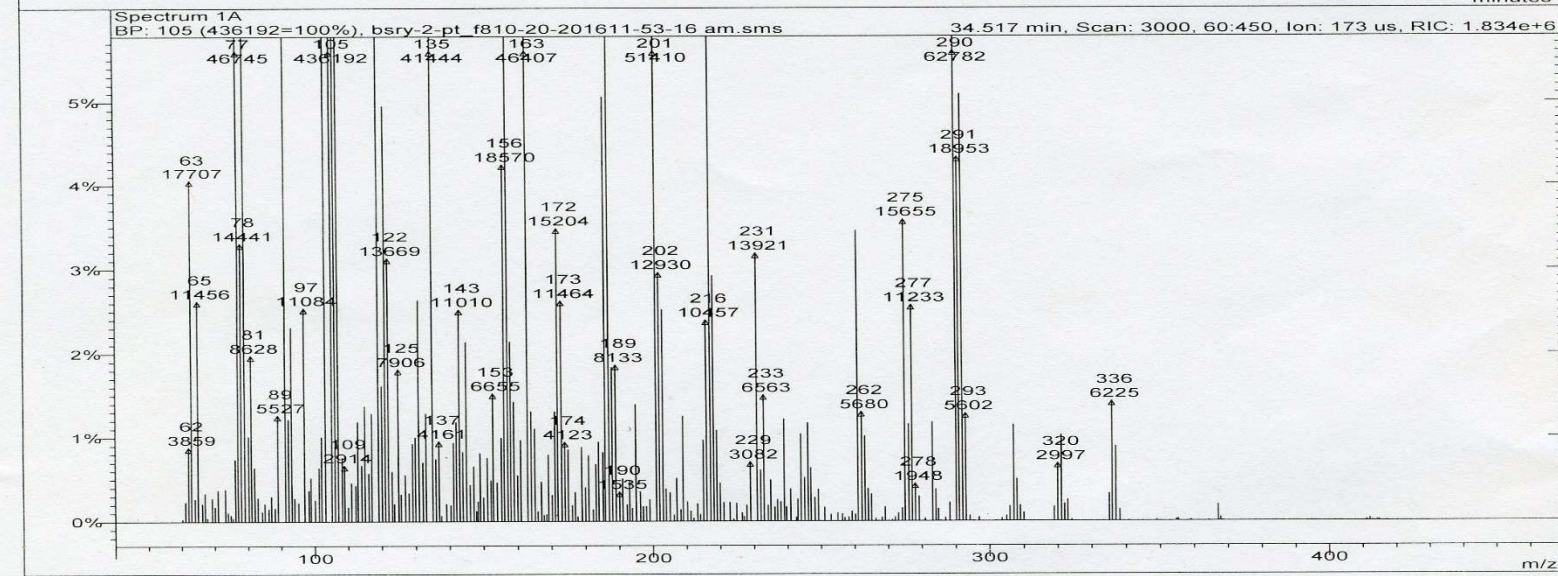
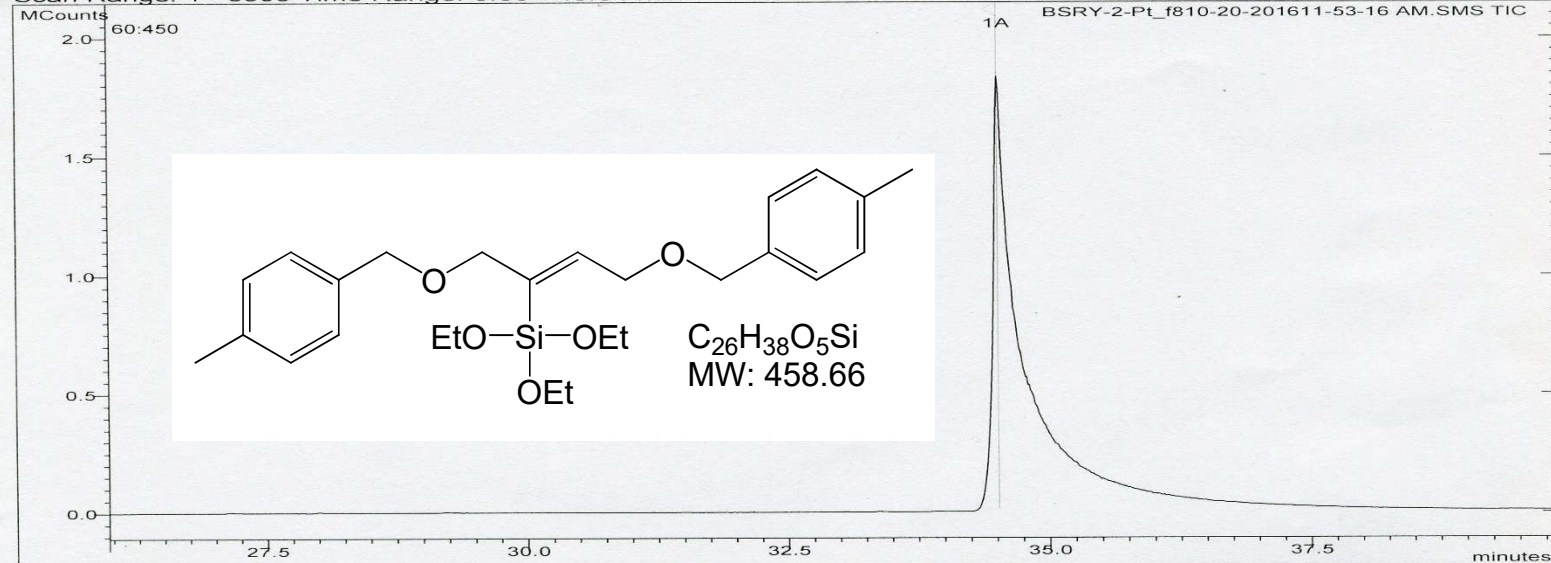
File: ...ilicone reactions\bsry\bsry-2\bsry-2-pt_f810-20-201611-53-16 am.sms

Sample: BSRY-2-Pt_f8

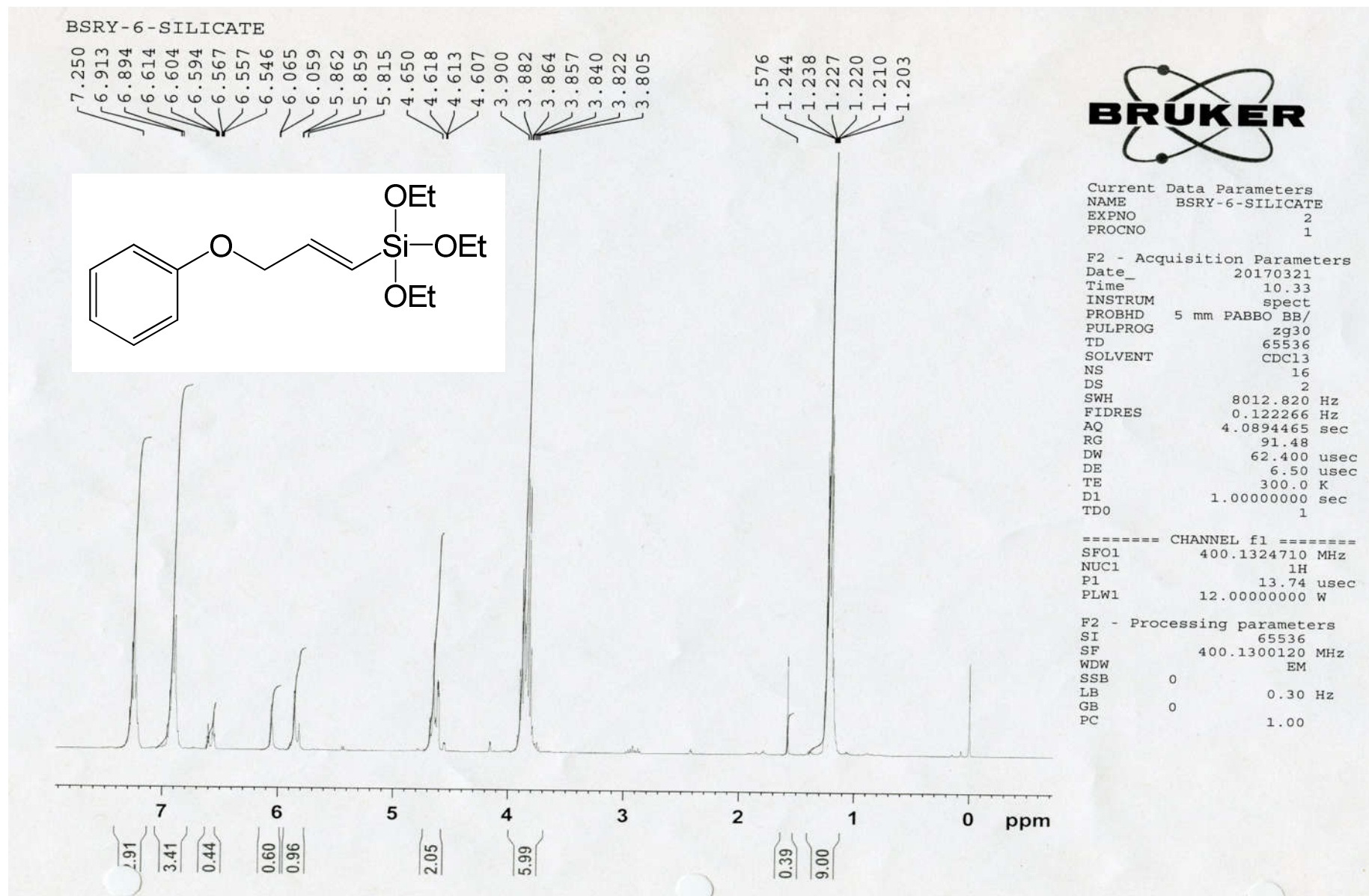
Operator: Jean

Date: 10/20/2016 11:53 AM

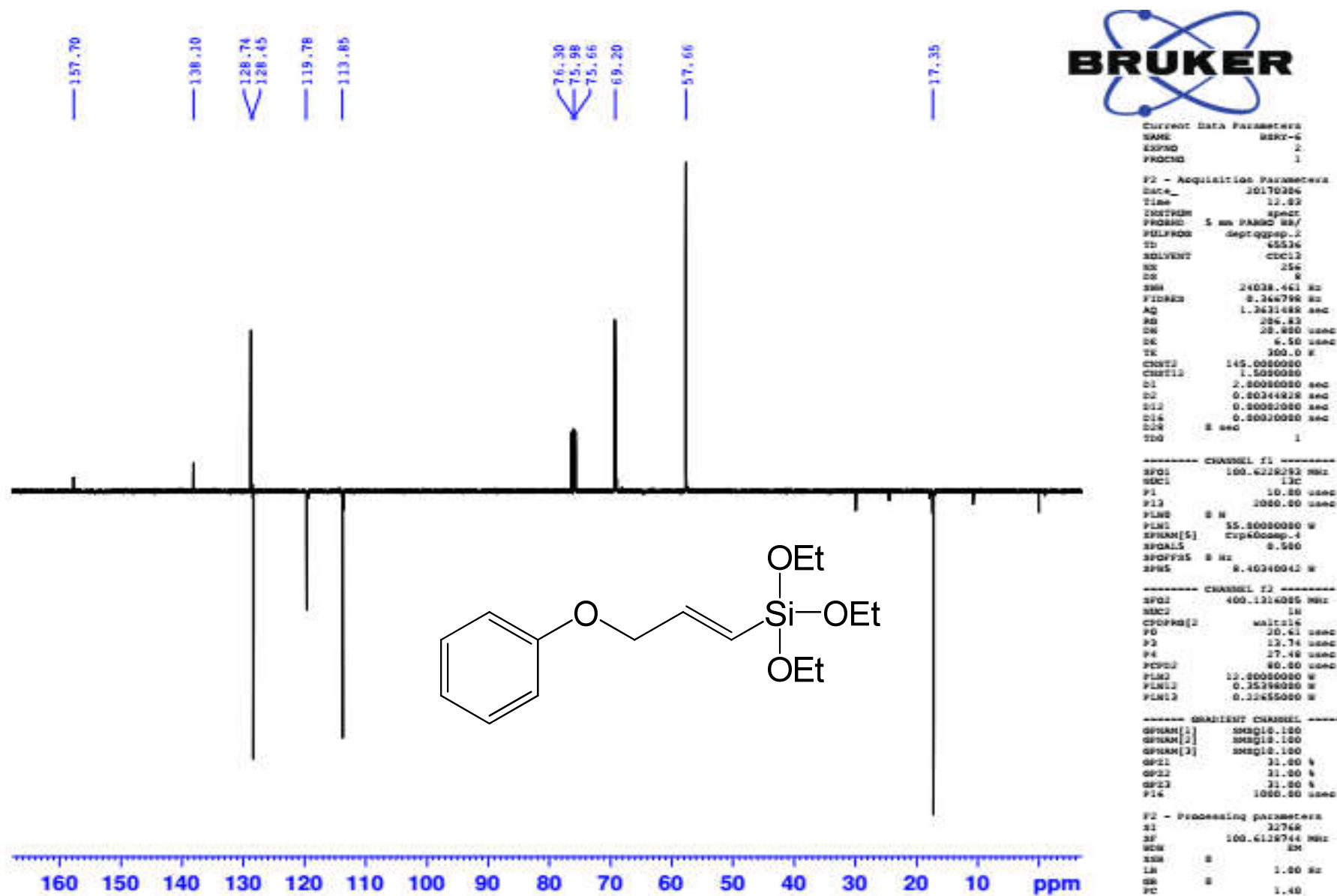
Scan Range: 1 - 3508 Time Range: 0.00 - 40.34 min.



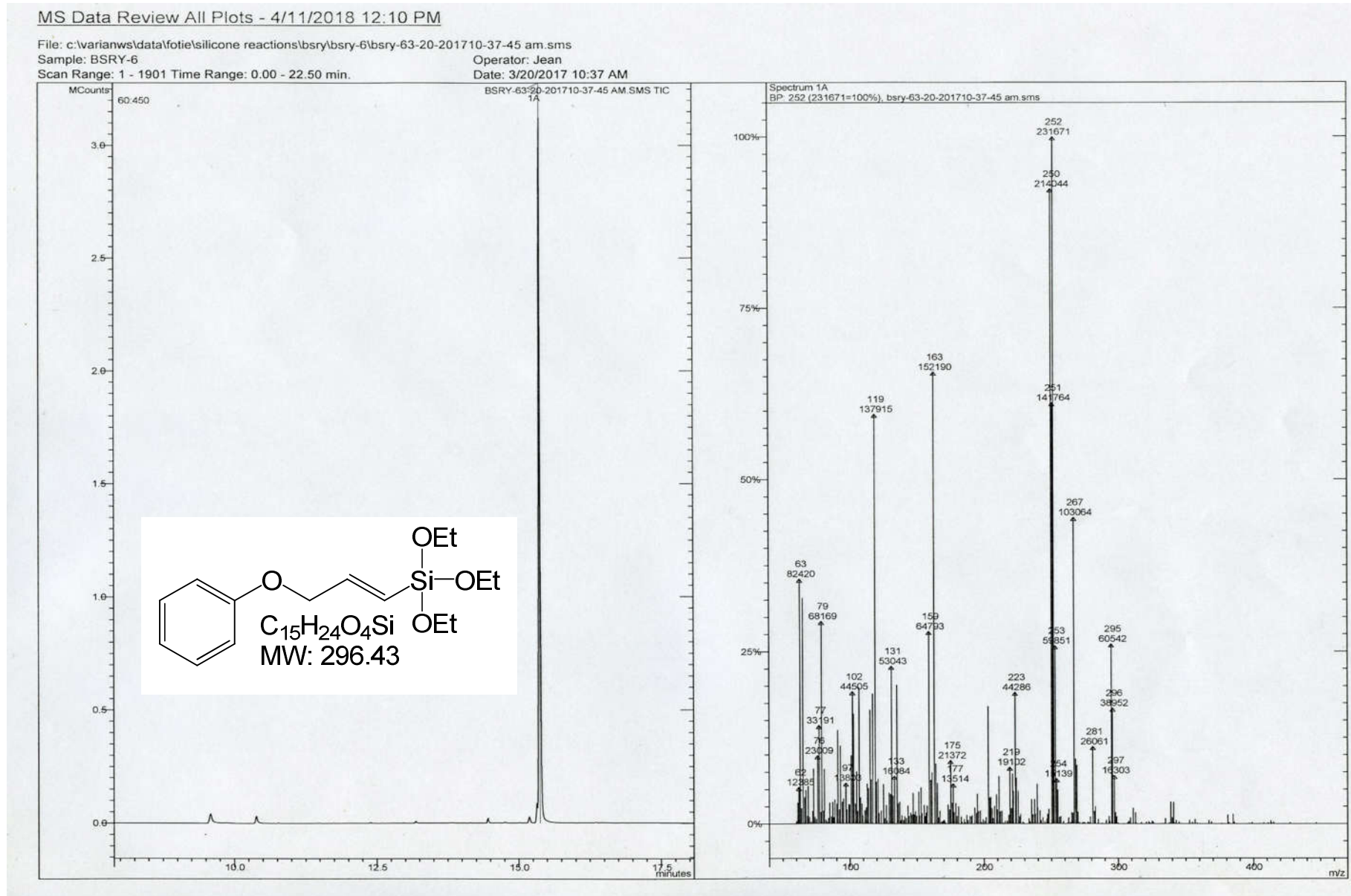
(E)-triethoxy(3-phenoxyprop-1-enyl)silane (**21**) – ^1H -NMR (CDCl_3 , 400 MHz)



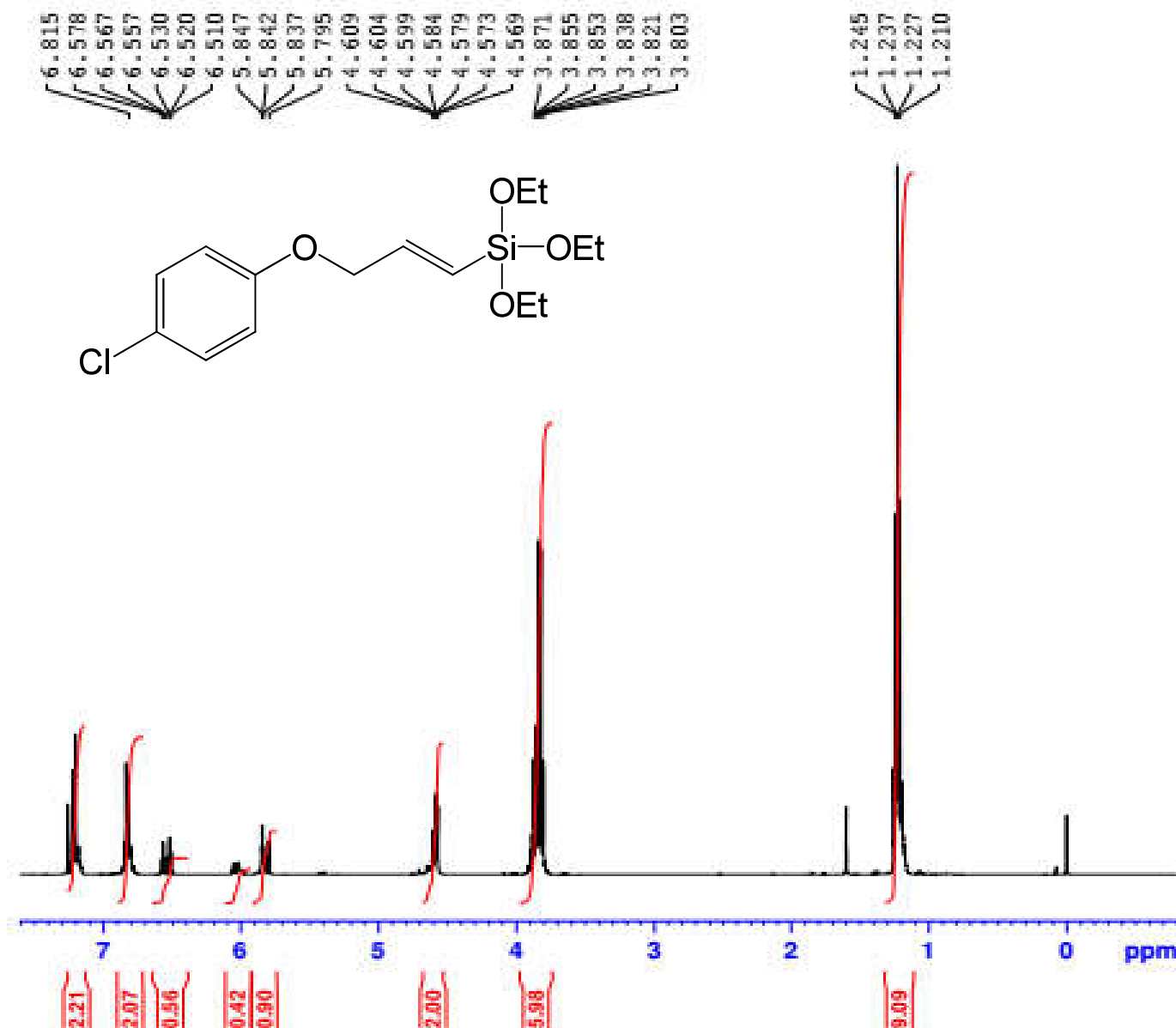
(E)-triethoxy(3-phenoxyprop-1-enyl)silane (**21**) – ^{13}C -NMR (CDCl_3 , 100 MHz)



(E)-triethoxy(3-phenoxyprop-1-enyl)silane (**21**) – GC_MS (showing one product)



(E)-(3-(4-chlorophenoxy)prop-1-enyl)triethoxysilane (**22**) – ^1H -NMR (CDCl_3 , 400 MHz)



Current Data Parameters
NAME BSRV-7-SILICATE
EXPNO 1
PROCNO 1

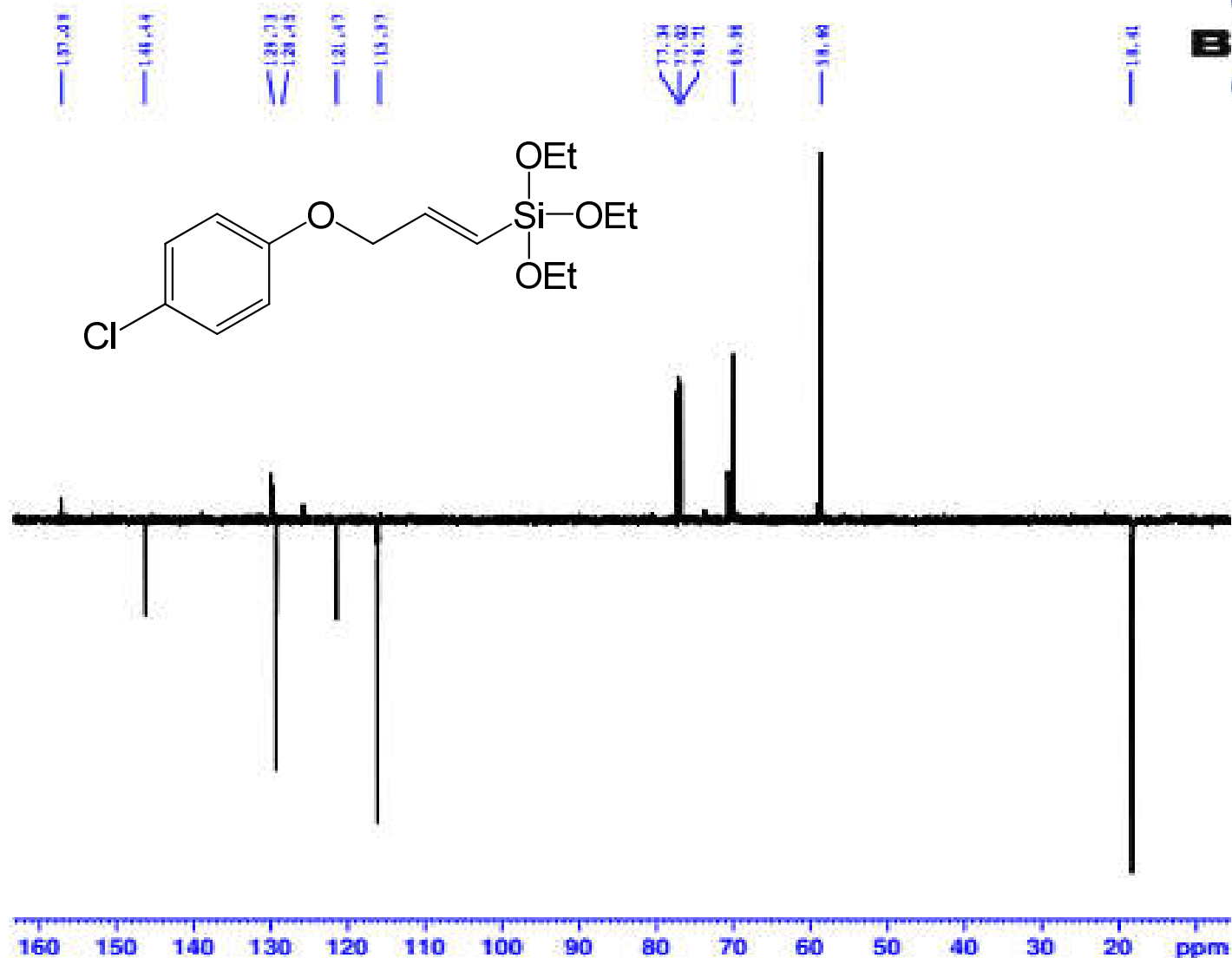
F2 - Acquisition Parameters
Date_ 20170403
Time 12.21
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT CDCl_3
NS 16
DS 2
SWH 8012.820 Hz
FIDRES 0.122266 Hz
AQ 4.0894465 sec
RG 74.37
DM 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 1.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.1324710 MHz
NUC1 ^1H
P1 13.74 usec
PLW1 12.00000000 W

F2 - Processing parameters
SI 65536
SF 400.130098 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

(E)-(3-(4-chlorophenoxy)prop-1-enyl)triethoxysilane (**22**) – ^{13}C -NMR (CDCl_3 , 100 MHz)

BSRY-7-SILICATE_CARBON



Current	Data	Parameters
NAME	BSRY-7-SILICATE	
EXPNO	2	
PROCNO	1	
F2 - Acquisition Parameters		
Acq. Time	20.70100	
INSTRUM	gpcr	
PROBHD	5 mm PUMD 90/	
PULPROG	zgpg30	
TD	65536	
SOLVENT	CDCl3	
NS	1024	
DS	4	
SWH	10068.161	Hz
FIDRES	0.000778	Hz
AQ	1.765188	sec
RG	204.88	
DE	20.800	um
TE	300.2	K
CHET2	0.000000	
CHET3	1.000000	
SI	0.000000	sec
SI2	0.000000	sec
SI3	0.000000	sec
SI4	0.000000	sec
DOF	0	sec
TD	1	
===== CHANNEL f1 =====		
NUC1	13C	
NUC2	13C	
PROG[1]	zgpg30	
PL1	0	
PL2	0	
PL3	0	
PL4	0	
PL5	0	
PL6	0	
PL7	0	
PL8	0	
PL9	0	
PL10	0	
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PL248	0	
PL249	0	
PL250	0	
PL251	0	
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PL253	0	
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PL265	0	
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PL435	0	
PL436	0	
PL437	0	
PL438	0	
PL439	0	
PL440	0	
PL441	0	
PL442	0	

(*E*)-(3-(4-chlorophenoxy)prop-1-enyl)triethoxysilane (**22**) – GC-MS (showing only one product, the small signal is a byproduct from the degradation of the expected product as indicated by the mass spectrum at the bottom right, and not an isomer.

