

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049940.D
 Acq On : 20 Jul 2018 2:22
 Operator : MD\SY
 Sample : J4019-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HS-SOIL

Quant Time: Jul 20 03:11:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	556710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	960119	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	793977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	295773	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	400524	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
35) Dibromofluoromethane	7.59	113	356984	44.29	ug/l	0.00
Spiked Amount			Recovery	=	88.58%	
50) Toluene-d8	10.09	98	1280639	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	
62) 4-Bromofluorobenzene	12.40	95	351575	34.76	ug/l	0.00
Spiked Amount			Recovery	=	69.52%	

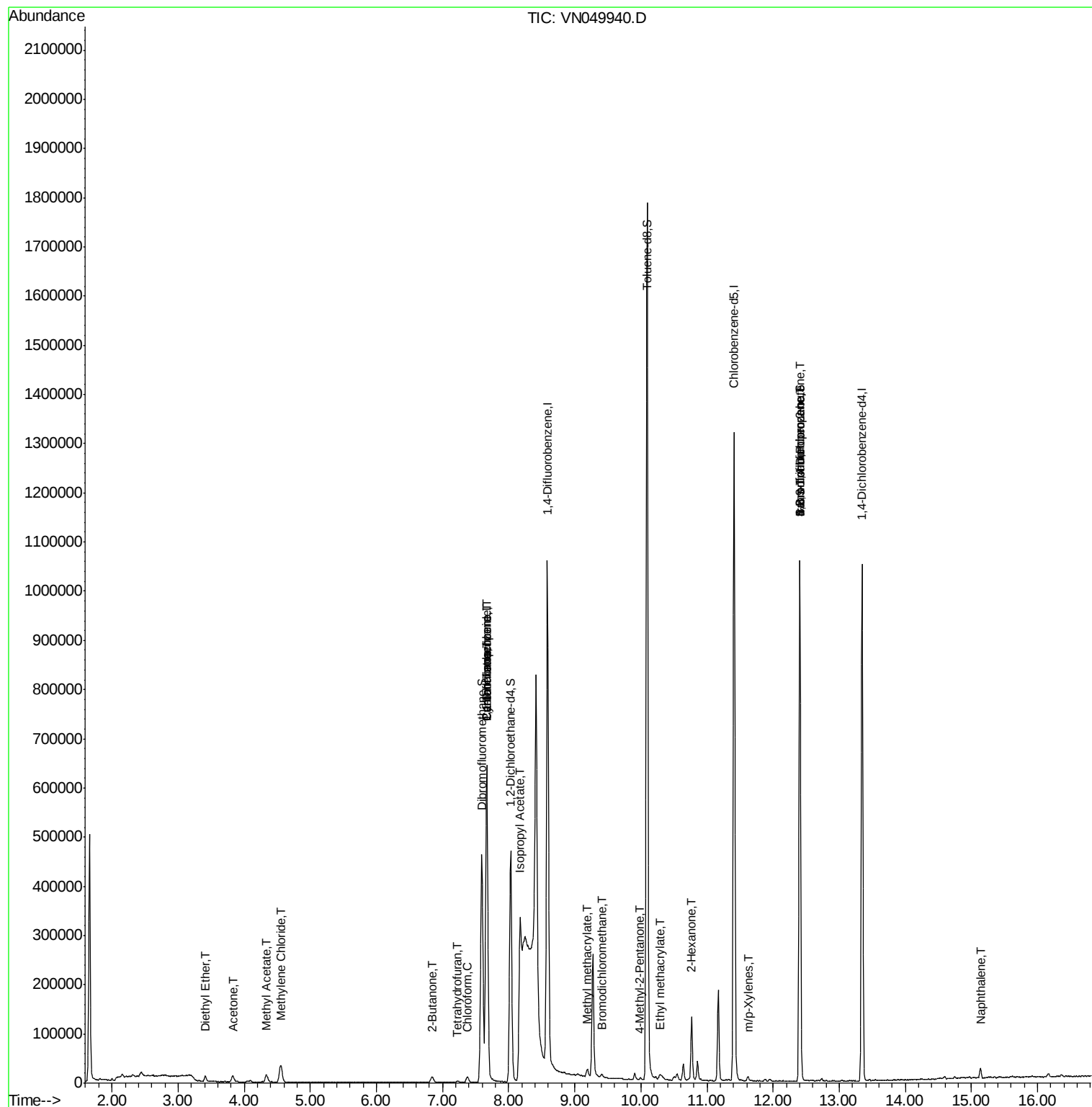
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	655	Below Cal		92
8) Diethyl Ether	3.41	74	5365	1.38	ug/l	87
16) Acetone	3.83	43	20386	10.29	ug/l	91
18) Methyl Acetate	4.33	43	27608	3.67	ug/l	98
20) Methylene Chloride	4.55	84	27449	3.64	ug/l	95
25) 2-Butanone	6.85	43	4719	1.67	ug/l #	86
29) Tetrahydrofuran	7.22	42	1274	0.71	ug/l #	82
30) Chloroform	7.38	83	11570	0.90	ug/l	90
31) Cyclohexane	7.67	56	11026	1.08	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40071	3.75	ug/l #	49
38) Carbon Tetrachloride	7.67	117	51319	4.49	ug/l #	16
43) Isopropyl Acetate	8.17	43	423135	33.04	ug/l #	84
47) Bromodichloromethane	9.40	83	3903	0.35	ug/l	99
48) Methyl methacrylate	9.18	41	7885	1.23	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	2889	0.40	ug/l #	75
56) Ethyl methacrylate	10.28	69	114	2.17	ug/l #	1
59) 2-Hexanone	10.77	43	17215	3.58	ug/l #	61
68) m/p-Xylenes	11.62	106	2564	0.21	ug/l	88
71) Bromoform	12.40	173	3176	0.57	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	174850	31.51	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	174850	98.54	ug/l #	13
95) Naphthalene	15.14	128	16586	5.57	ug/l	98

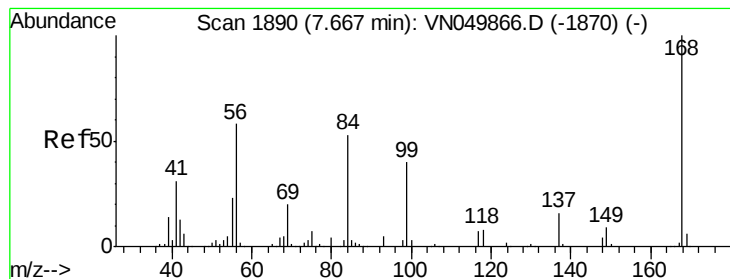
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

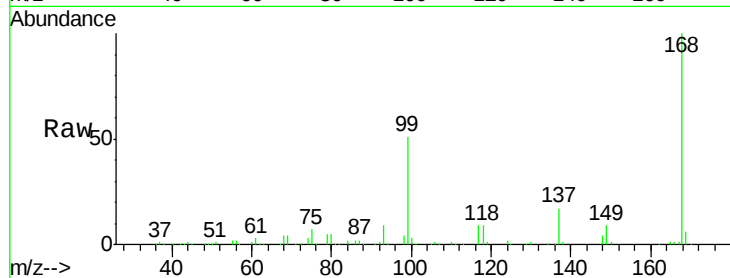
HS-SOIL

Tot Ion:168 Resp: 556710

Ion Ratio Lower Upper

168 100

99 50.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

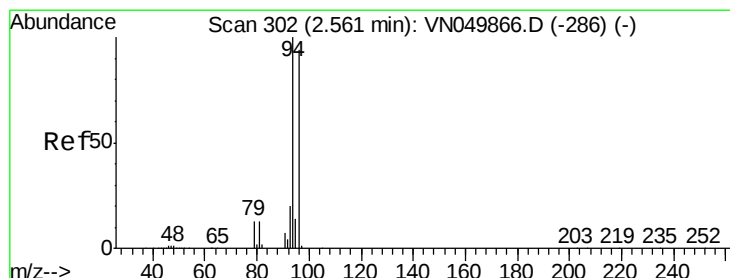
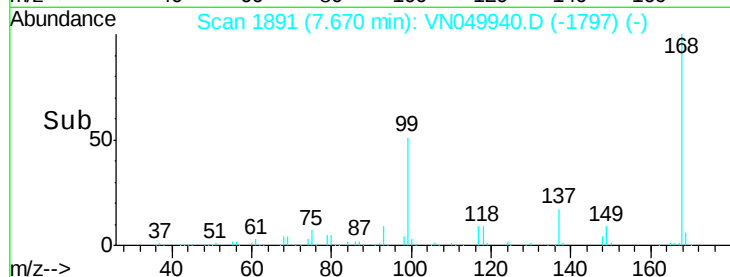
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049940.D

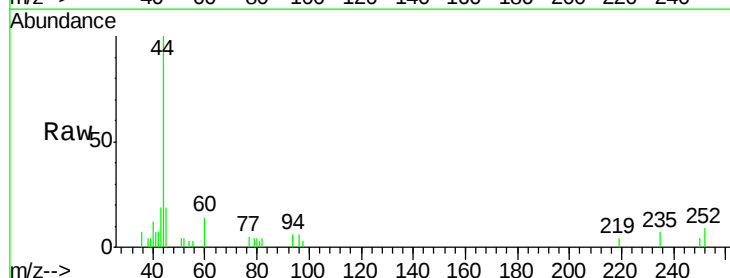
Acq: 20 Jul 2018 2:22

Tgt Ion: 94 Resp: 655

Ion Ratio Lower Upper

94 100

96 102.7 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

400

300

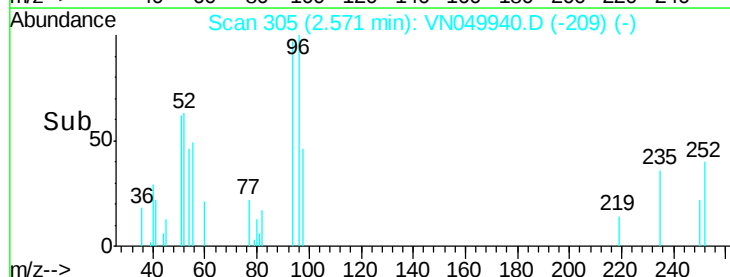
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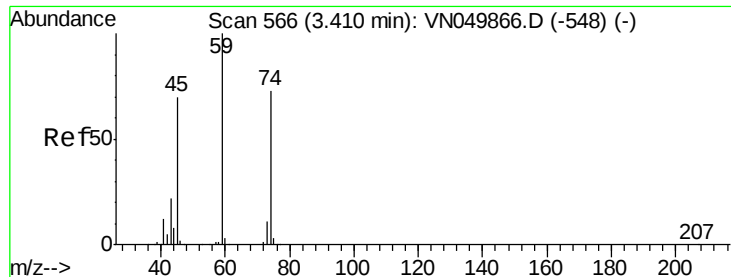
100

0

Time-->

2.54 2.56 2.58 2.60





#8

Diethyl Ether

Concen: 1.38 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

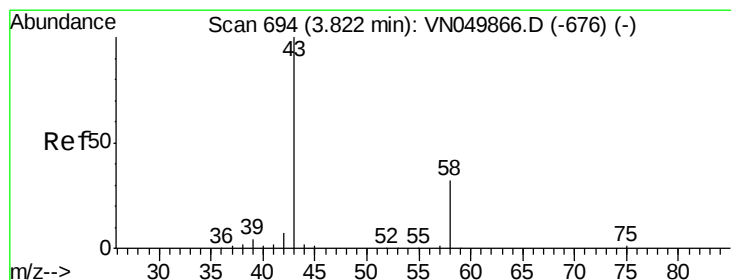
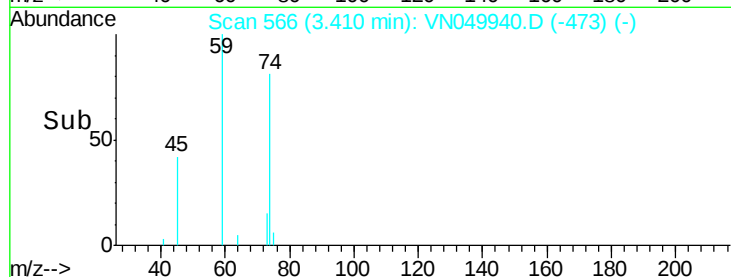
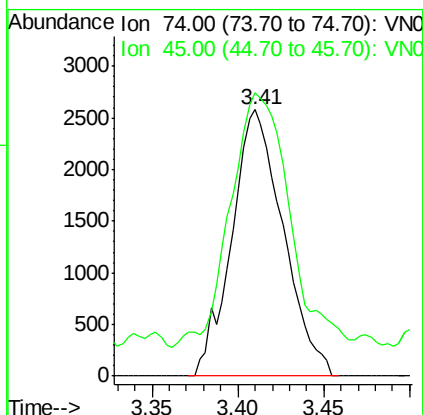
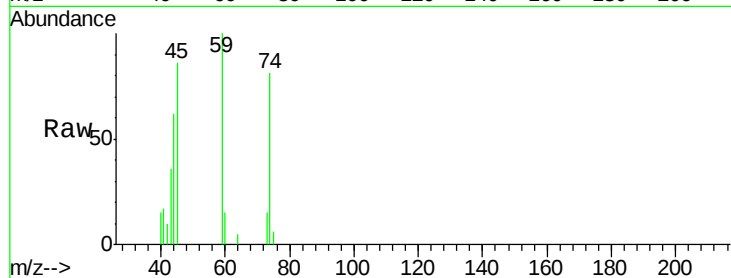
HS-SOIL

Tot Ion: 74 Resp: 5365

Ion Ratio Lower Upper

74 100

45 109.5 48.4 145.2



#16

Acetone

Concen: 10.29 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049940.D

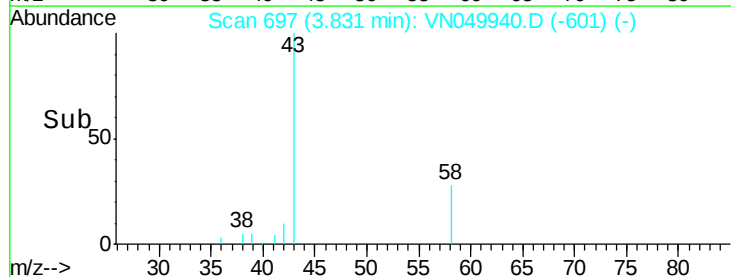
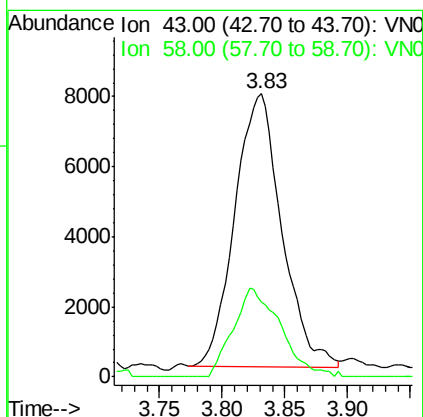
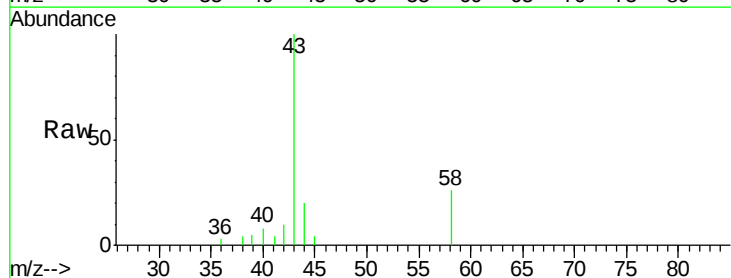
Acq: 20 Jul 2018 2:22

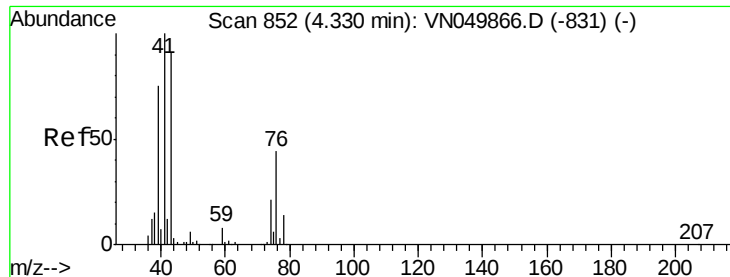
Tgt Ion: 43 Resp: 20386

Ion Ratio Lower Upper

43 100

58 27.3 25.9 38.9

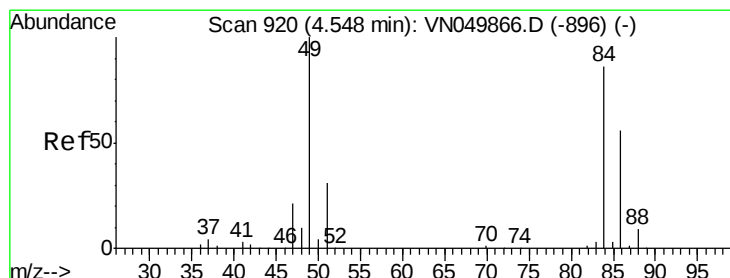
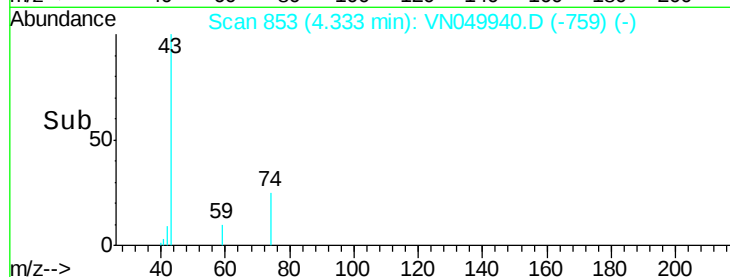
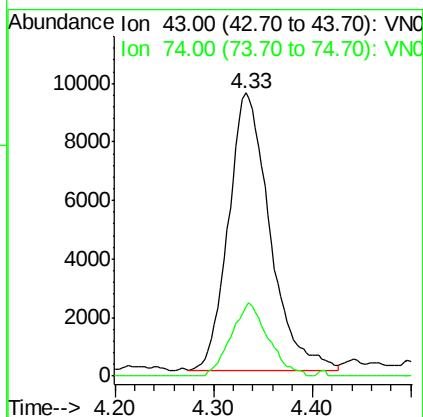
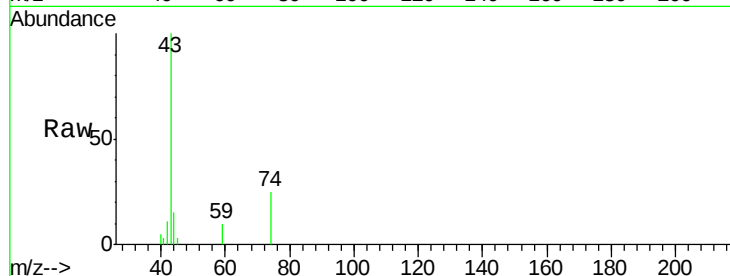




#18
Methvl Acetate
Concen: 3.67 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049940.D
Acq: 20 Jul 2018 2:22

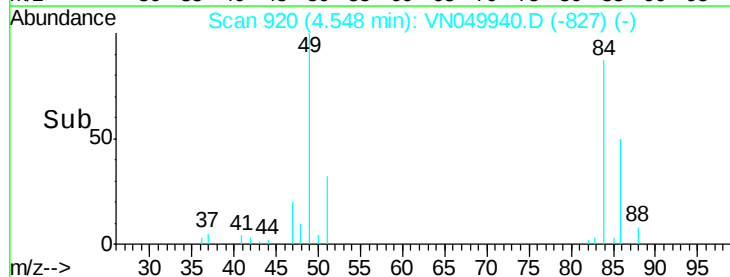
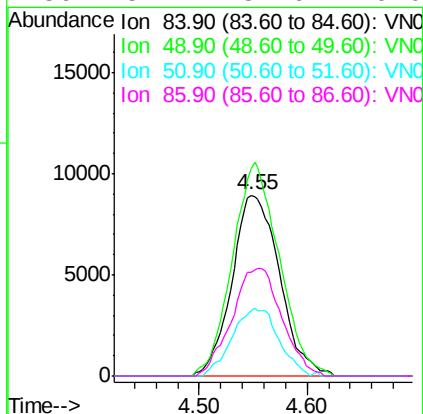
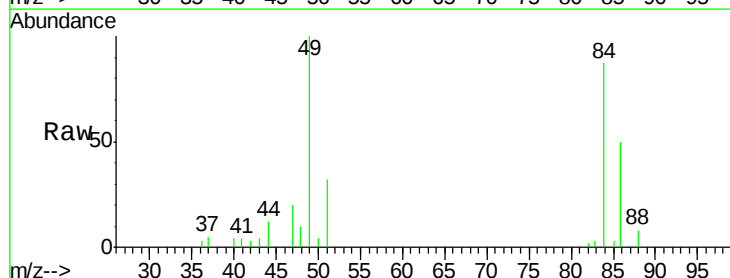
Instrument :
MSVOA_N
ClientSampled :
HS-SOIL

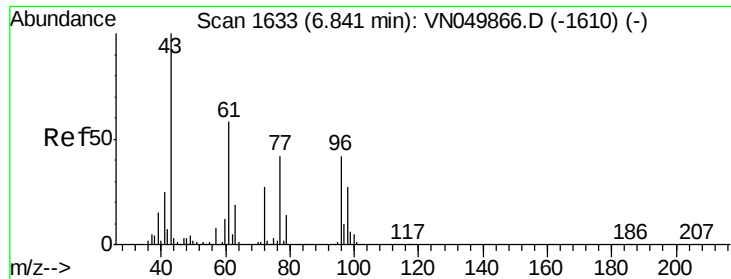
Tot Ion: 43 Resp: 27608
Ion Ratio Lower Upper
43 100
74 23.6 19.8 29.8



#20
Methylene Chloride
Concen: 3.64 ug/l
RT: 4.55 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN049940.D
Acq: 20 Jul 2018 2:22

Tgt Ion: 84 Resp: 27449
Ion Ratio Lower Upper
84 100
49 115.0 95.4 143.2
51 36.4 28.4 42.6
86 57.7 52.6 79.0





#25

2-Butanone

Concen: 1.67 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

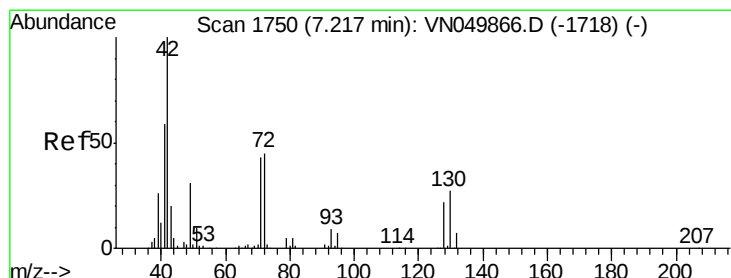
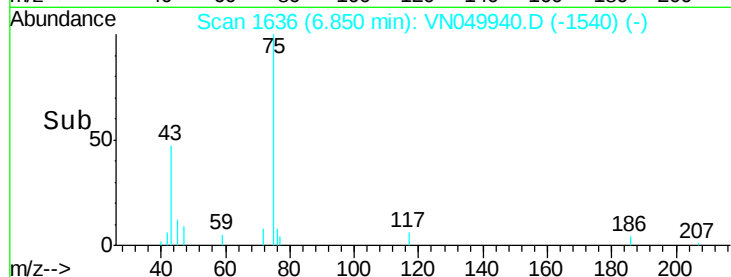
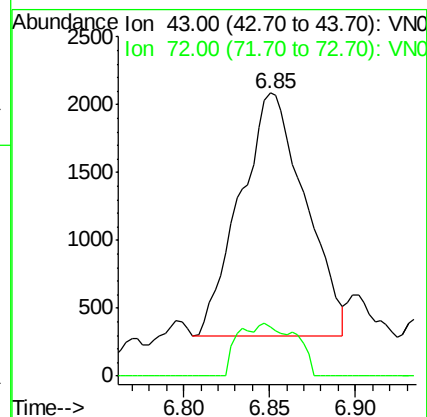
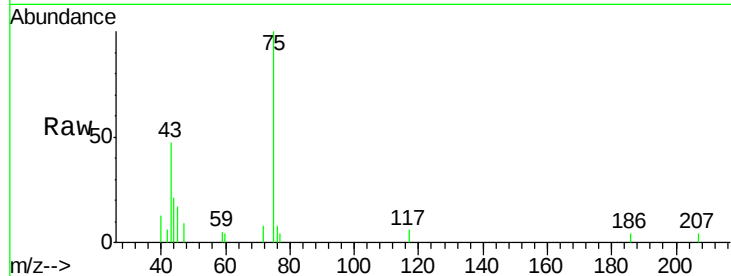
HS-SOIL

Tot Ion: 43 Resp: 4719

Ion Ratio Lower Upper

43 100

72 20.4 22.1 33.1#



#29

Tetrahydrofuran

Concen: 0.71 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

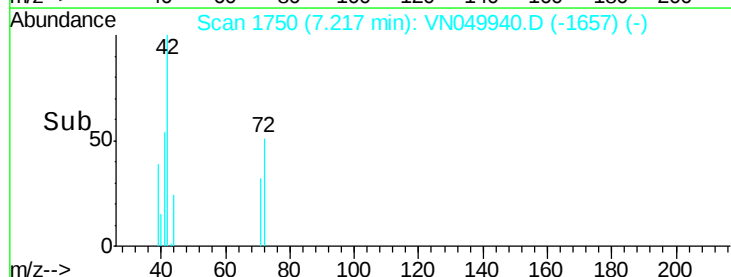
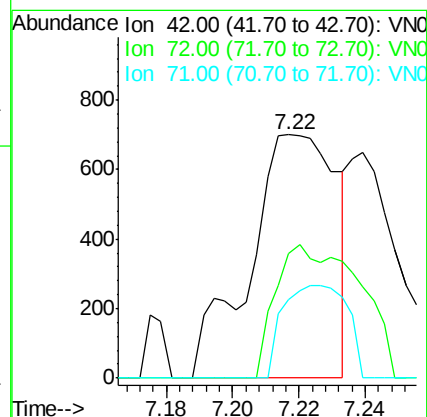
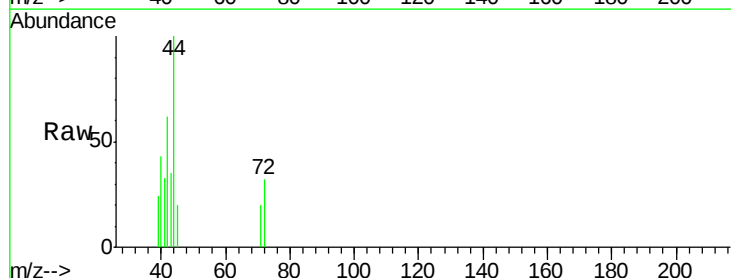
Tgt Ion: 42 Resp: 1274

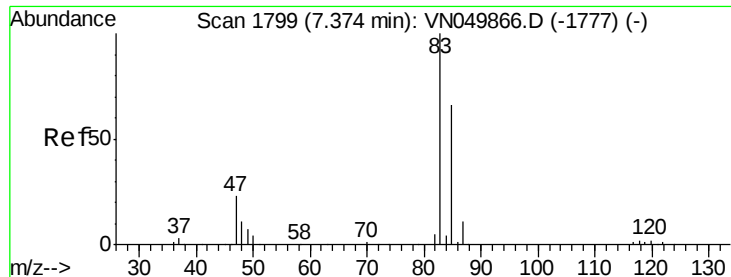
Ion Ratio Lower Upper

42 100

72 53.0 35.6 53.4

71 28.3 34.0 51.0#





#30

Chloroform

Concen: 0.90 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

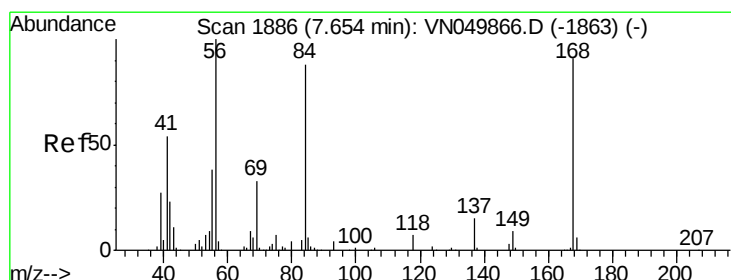
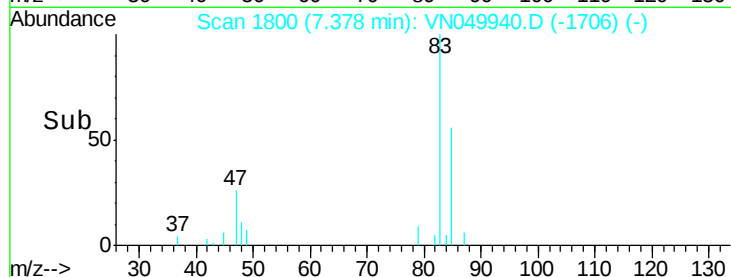
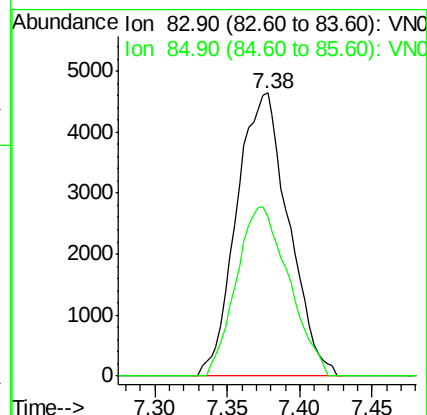
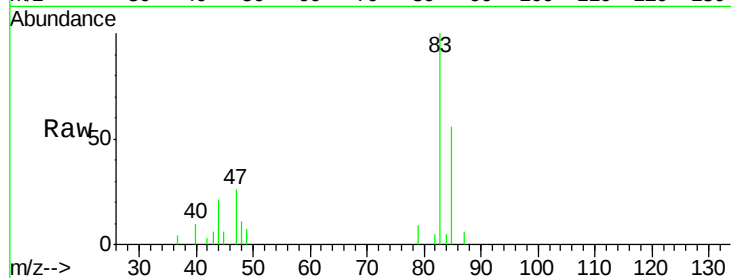
HS-SOIL

Tot Ion: 83 Resp: 11570

Ion Ratio Lower Upper

83 100

85 56.5 51.4 77.2



#31

Cyclohexane

Concen: 1.08 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

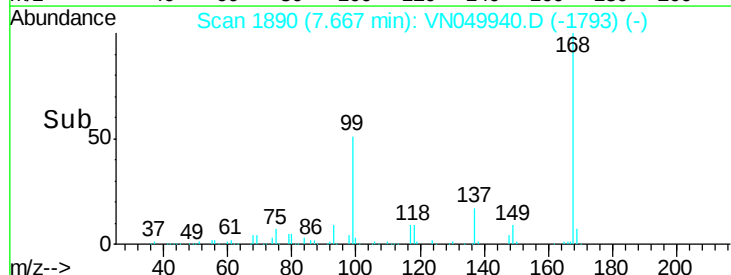
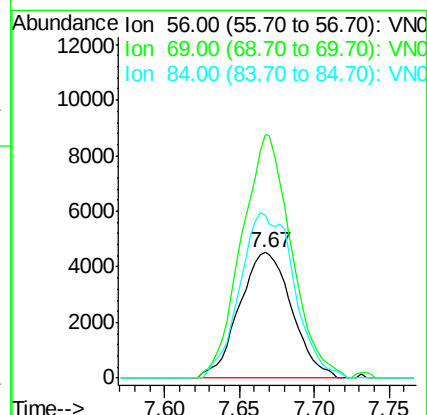
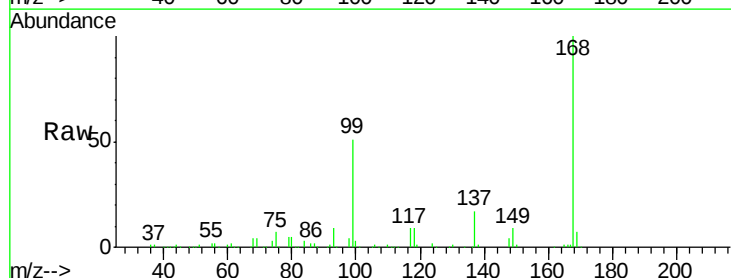
Tgt Ion: 56 Resp: 11026

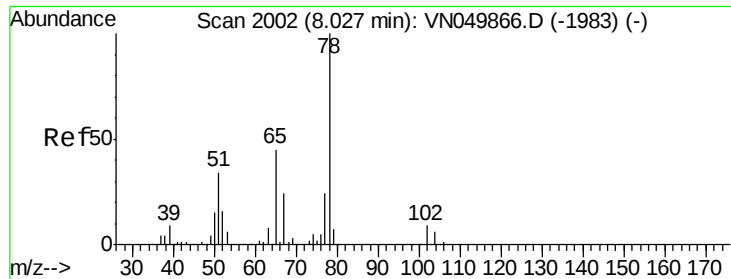
Ion Ratio Lower Upper

56 100

69 194.3 26.6 40.0#

84 130.5 69.0 103.6#

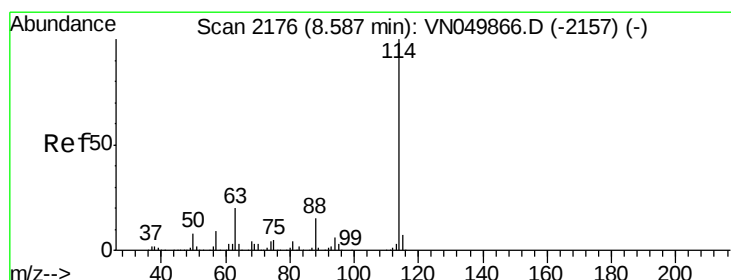
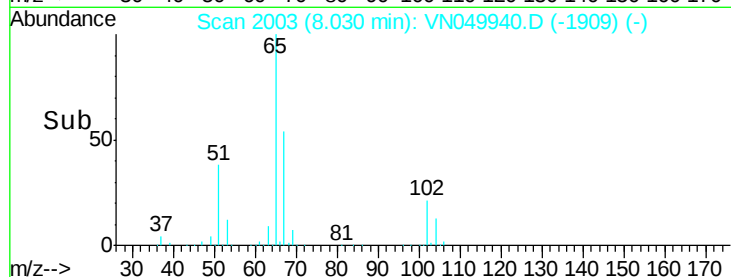
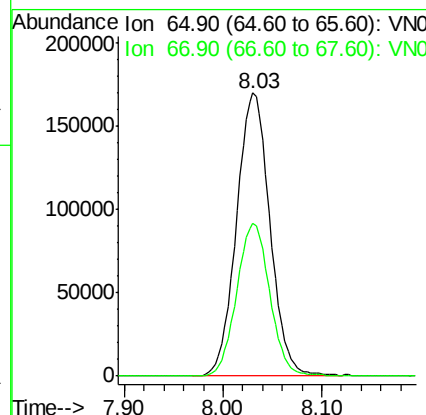
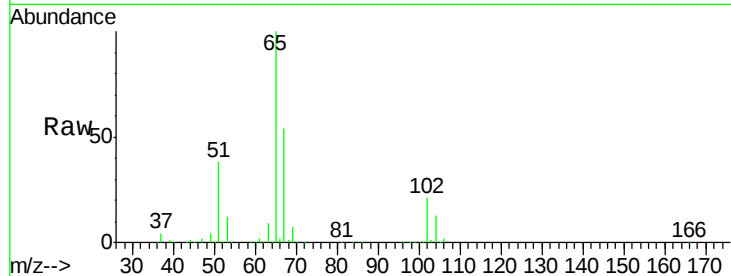




#33
 1,2-Dichloroethane-d4
 Concen: 52.34 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049940.D
 Acq: 20 Jul 2018 2:22

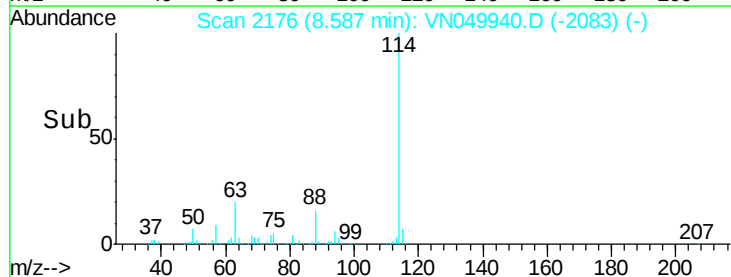
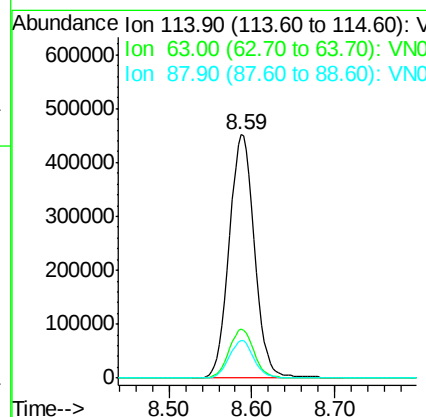
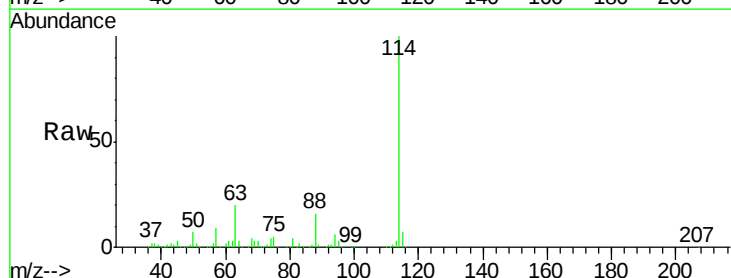
Instrument :
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 HS-SOIL

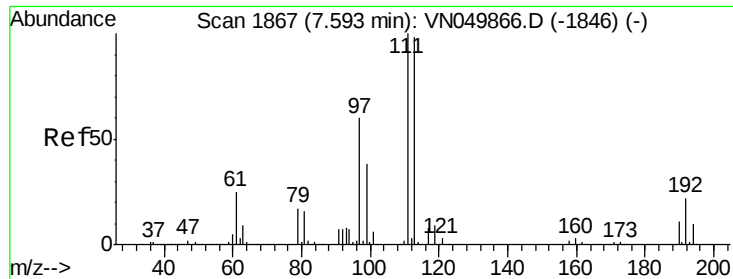
Tot Ion: 65 Resp: 400524
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049940.D
 Acq: 20 Jul 2018 2:22

Tgt Ion: 114 Resp: 960119
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.8
 88 15.7 0.0 30.6

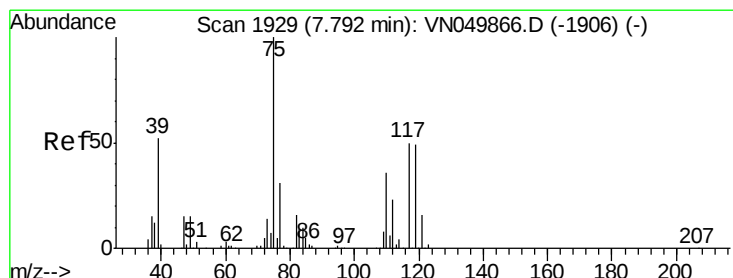
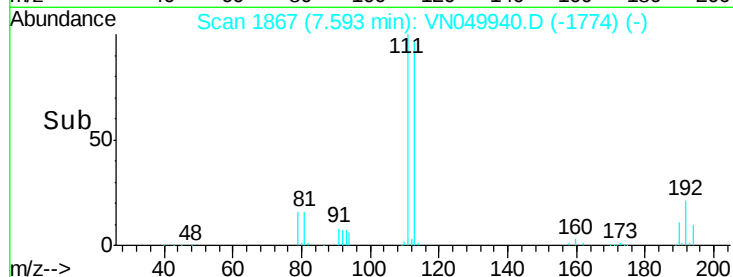
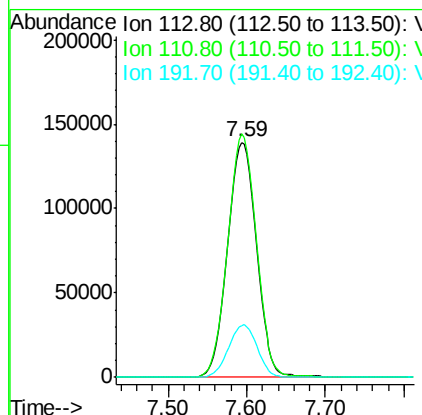
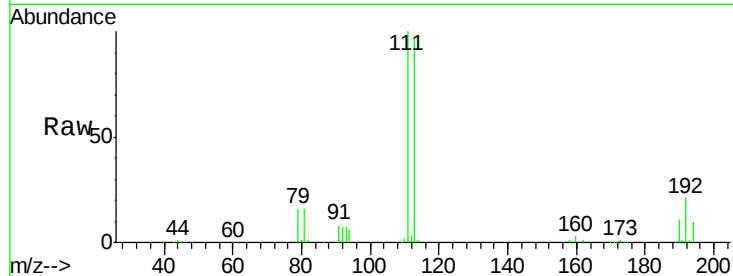




#35
 Dibromofluoromethane
 Concen: 44.29 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049940.D
 Acq: 20 Jul 2018 2:22

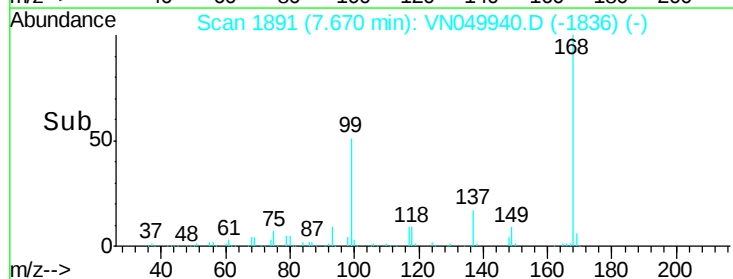
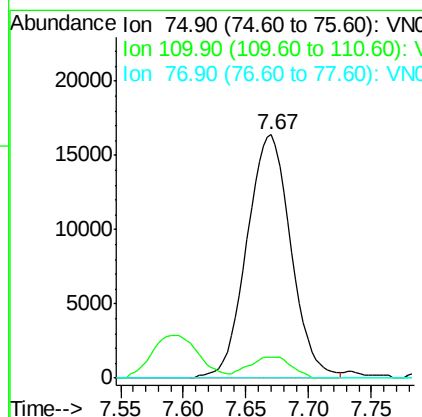
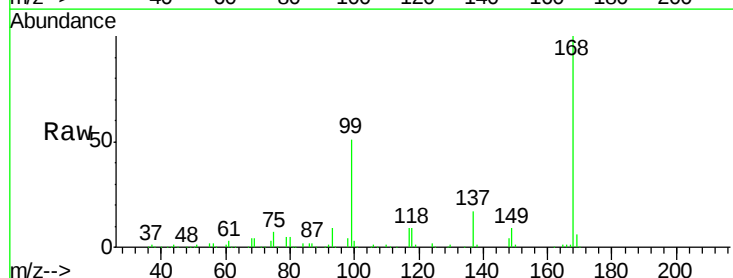
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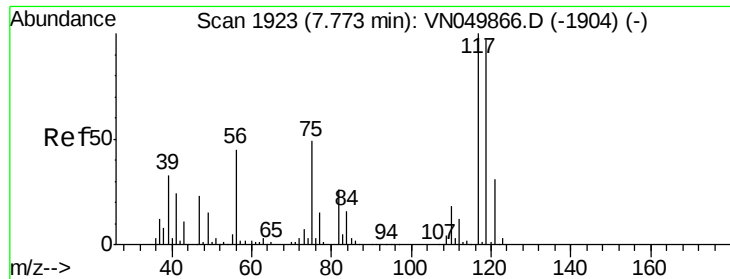
Tot Ion:113 Resp: 356984
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.8 122.8
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049940.D
 Acq: 20 Jul 2018 2:22

Tgt Ion: 75 Resp: 40071
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.4#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 4.49 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

HS-SOIL

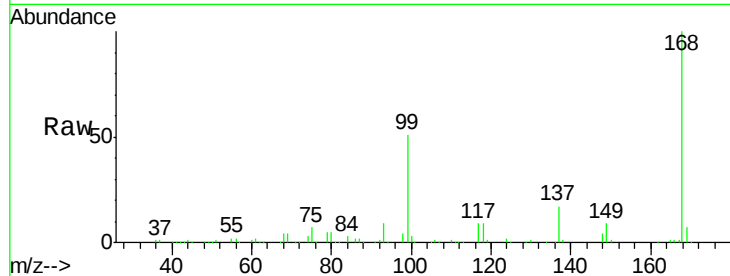
Tot Ion:117 Resp: 51319

Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

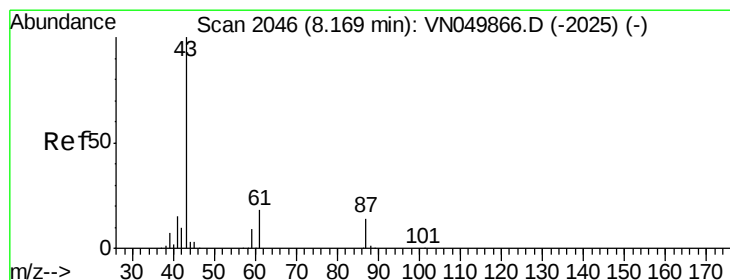
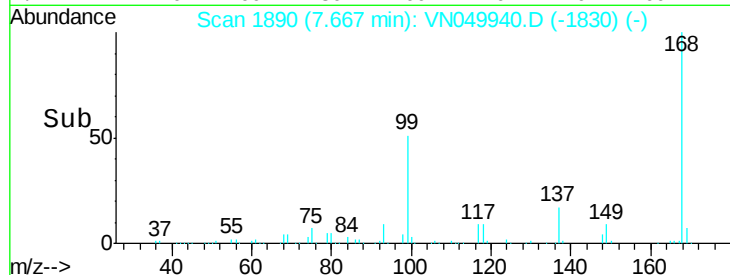
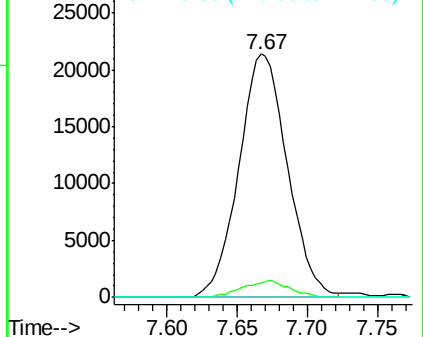
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 33.04 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

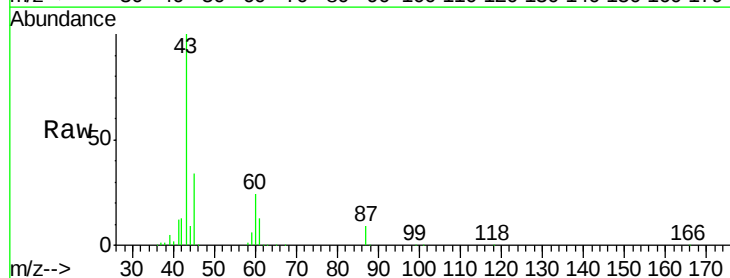
Tgt Ion: 43 Resp: 423135

Ion Ratio Lower Upper

43 100

61 10.6 14.9 22.3#

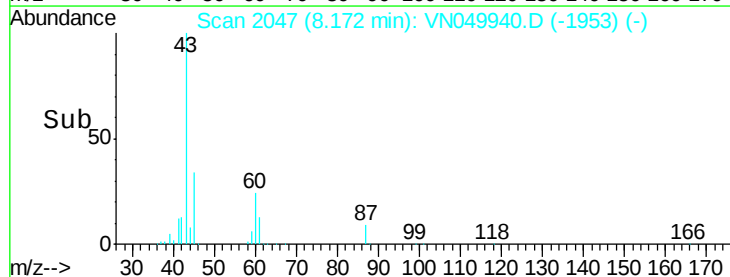
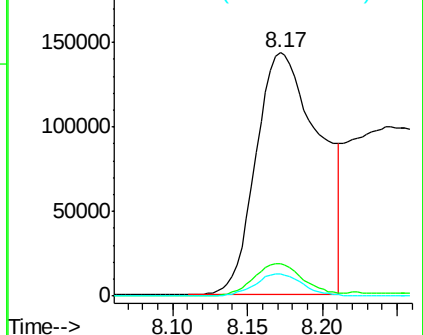
87 6.9 10.0 15.0#

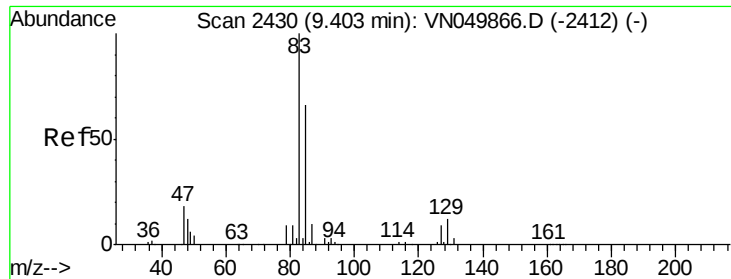


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

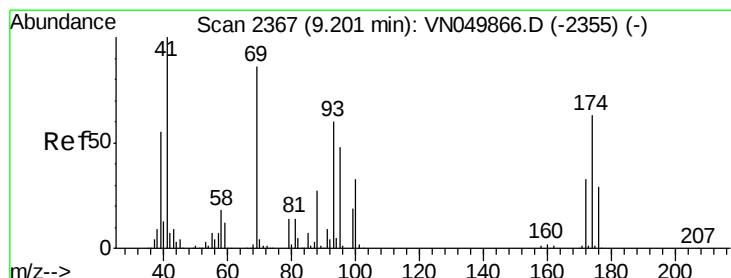
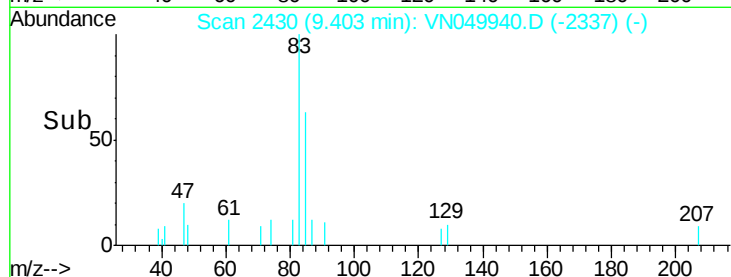
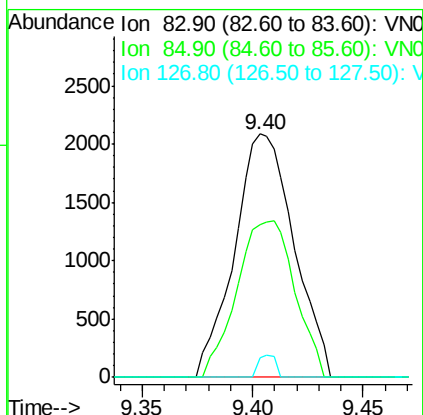
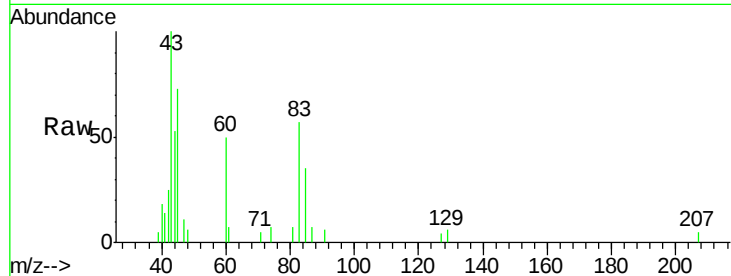




#47
Bromodichloromethane
Concen: 0.35 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN049940.D
Acq: 20 Jul 2018 2:22

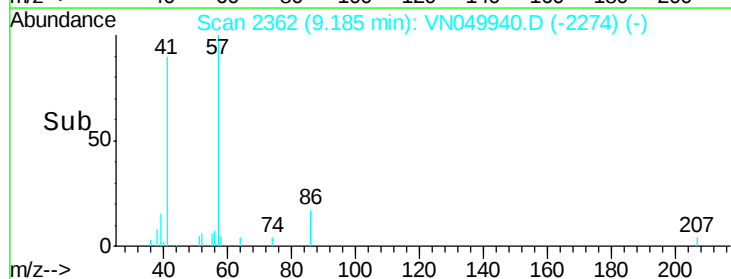
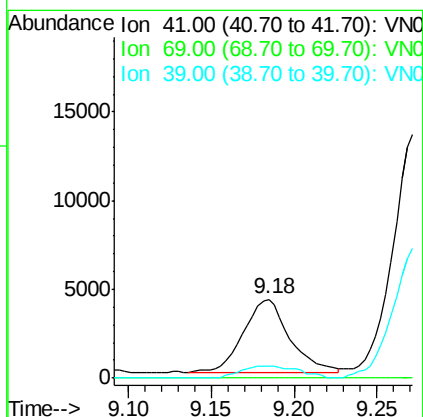
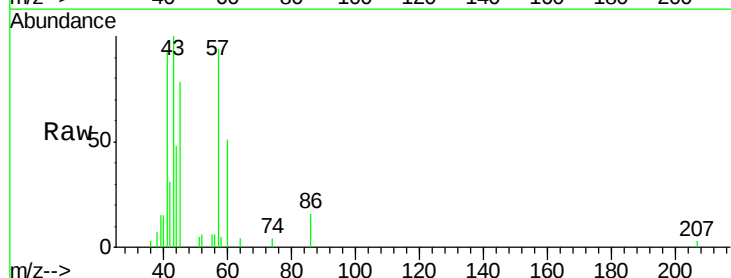
Instrument :
MSVOA_N
ClientSampled :
HS-SOIL

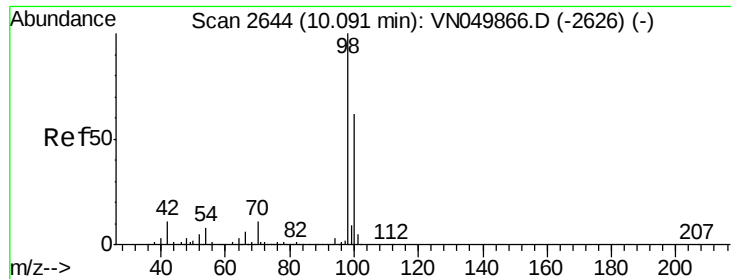
Tot Ion: 83 Resp: 3903
Ion Ratio Lower Upper
83 100
85 62.6 50.5 75.7
127 8.0 6.8 10.2



#48
Methyl methacrylate
Concen: 1.23 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN049940.D
Acq: 20 Jul 2018 2:22

Tgt Ion: 41 Resp: 7885
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 21.2 44.7 67.1#





#50

Toluene-d8

Concen: 43.61 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

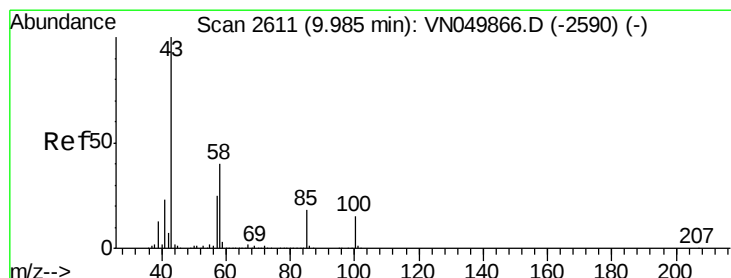
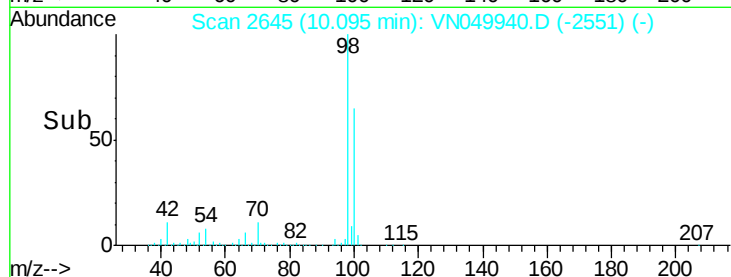
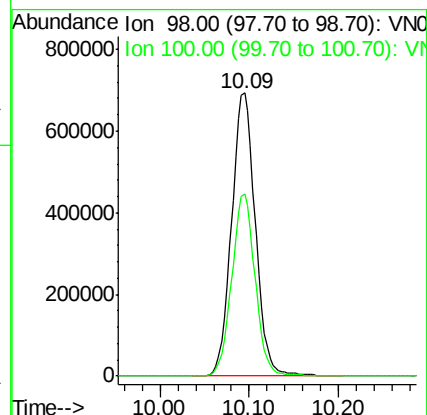
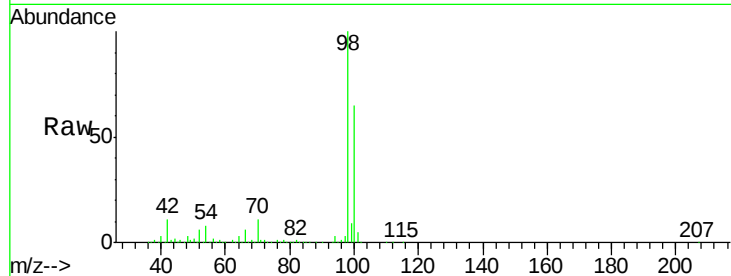
HS-SOIL

Tot Ion: 98 Resp: 1280639

Ion Ratio Lower Upper

98 100

100 63.2 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN049940.D

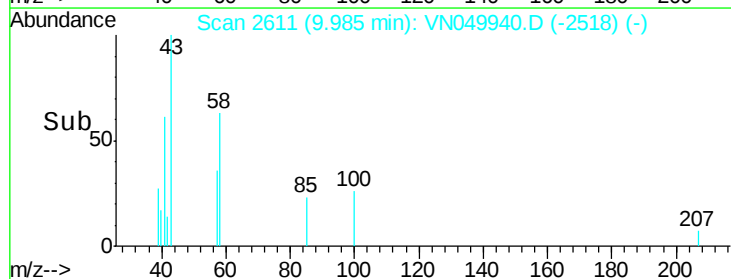
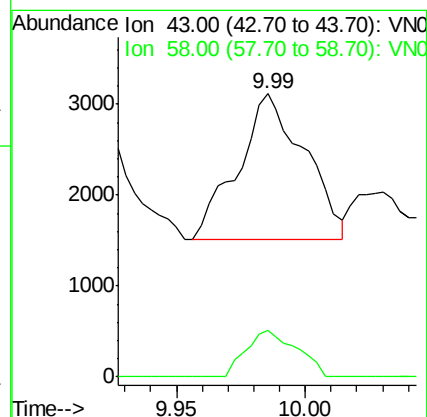
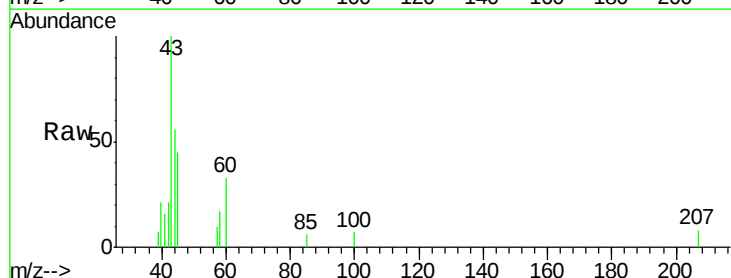
Acq: 20 Jul 2018 2:22

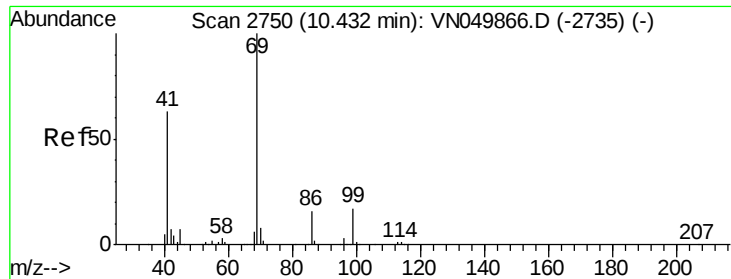
Tgt Ion: 43 Resp: 2889

Ion Ratio Lower Upper

43 100

58 24.3 31.8 47.8#





#56

Ethyl methacrylate

Concen: 2.17 ug/l

RT: 10.28 min Scan# 2704

Delta R.T. -0.15 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

HS-SOIL

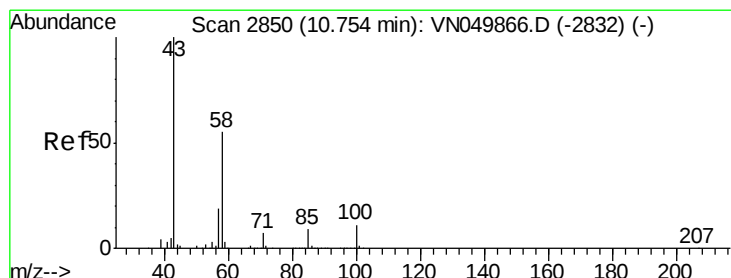
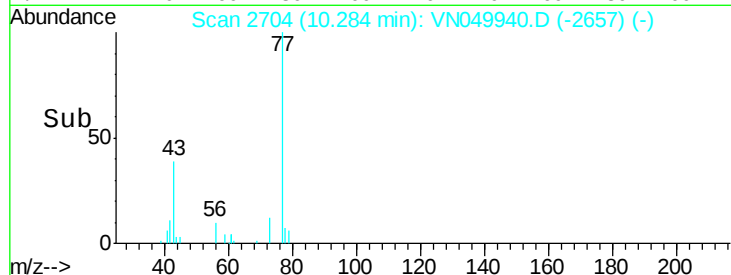
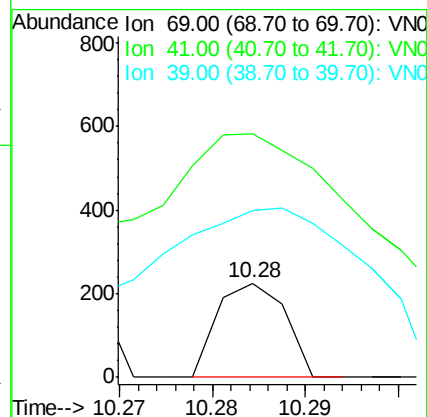
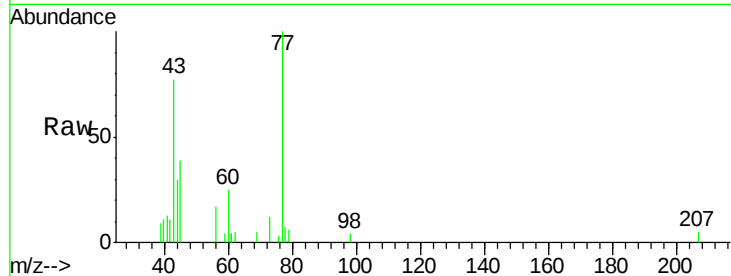
Tot Ion: 69 Resp: 114

Ion Ratio Lower Upper

69 100

41 474.6 51.6 77.4#

39 572.8 25.8 38.8#



#59

2-Hexanone

Concen: 3.58 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049940.D

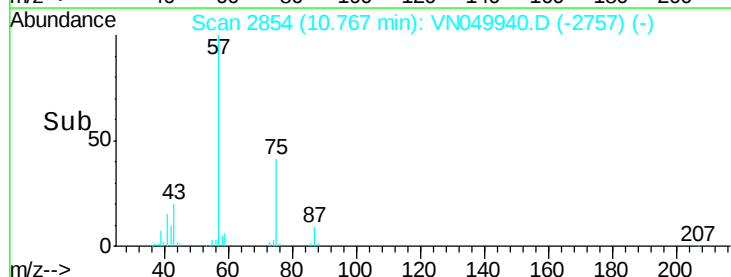
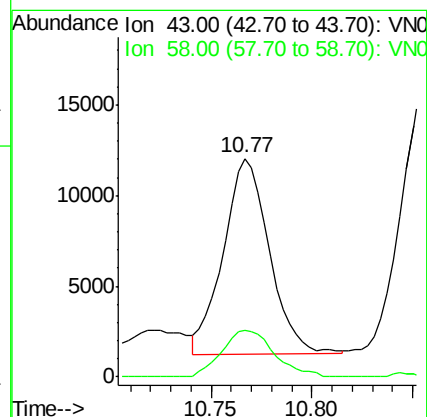
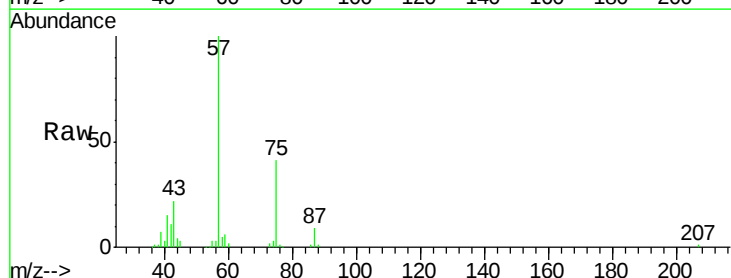
Acq: 20 Jul 2018 2:22

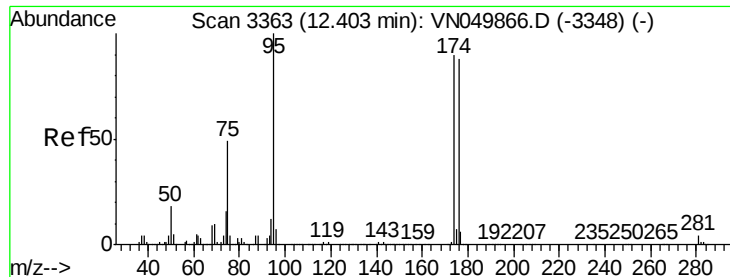
Tgt Ion: 43 Resp: 17215

Ion Ratio Lower Upper

43 100

58 26.9 27.8 83.4#





#62

4-Bromofluorobenzene

Concen: 34.76 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

HS-SOIL

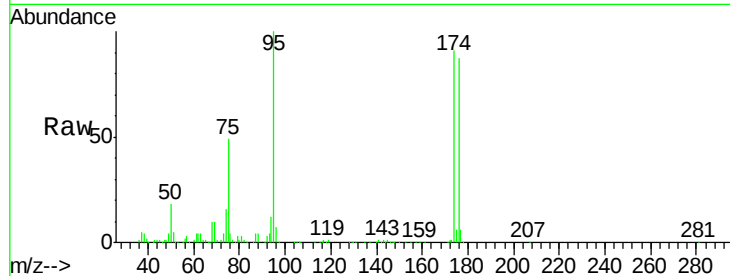
Tot Ion: 95 Resp: 351575

Ion Ratio Lower Upper

95 100

174 91.2 0.0 179.6

176 87.4 0.0 174.0

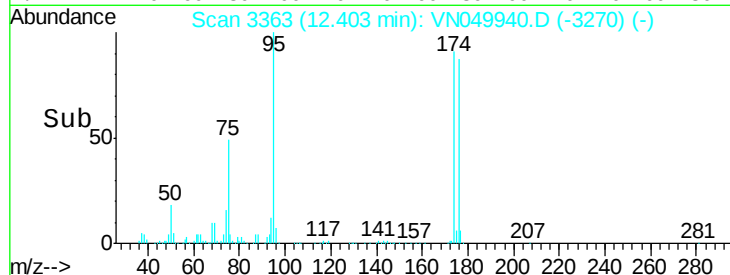


Abundance Ion 94.90 (94.60 to 95.60): VN049866.D (-3348) (-)

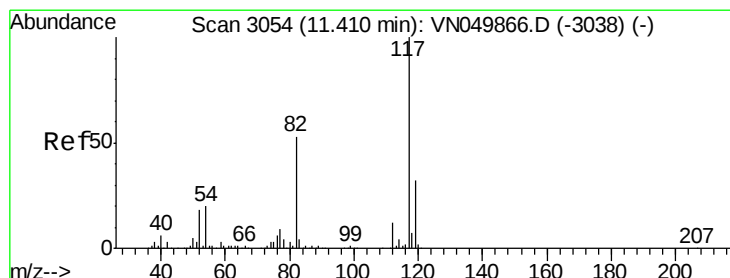
Ion 173.80 (173.50 to 174.50): VN049866.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049866.D (-3348) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

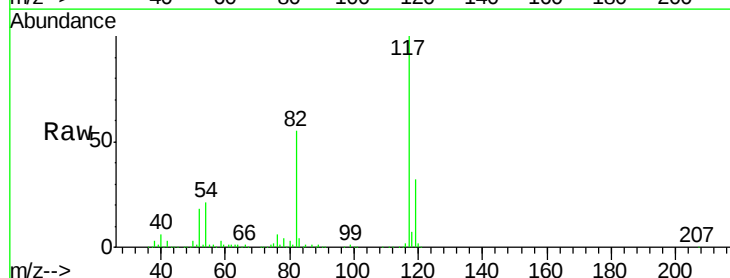
Tgt Ion: 117 Resp: 793977

Ion Ratio Lower Upper

117 100

82 54.8 41.9 62.9

119 31.9 25.4 38.2

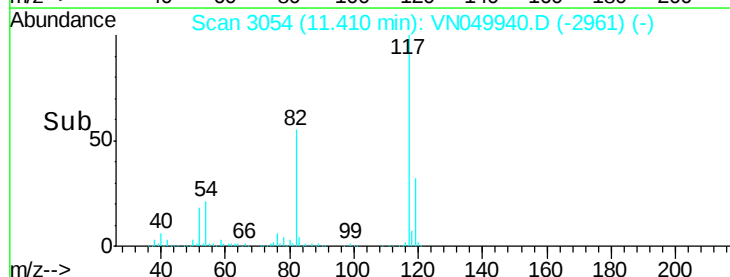


Abundance Ion 116.90 (116.60 to 117.60): VN049866.D (-3038) (-)

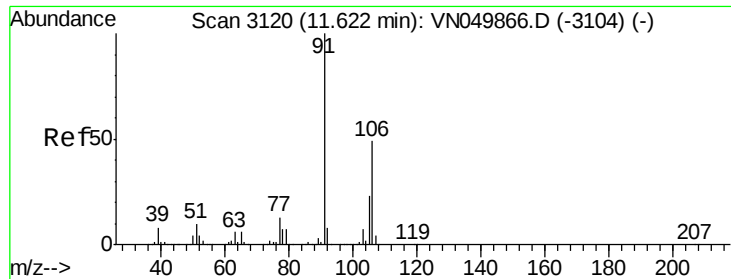
Ion 82.00 (81.70 to 82.70): VN049866.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049866.D (-3038) (-)

Time-->



Time-->



#68

m/p-Xvlenes

Concen: 0.21 ug/l

RT: 11.62 min Scan# 3119

Delta R.T. -0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

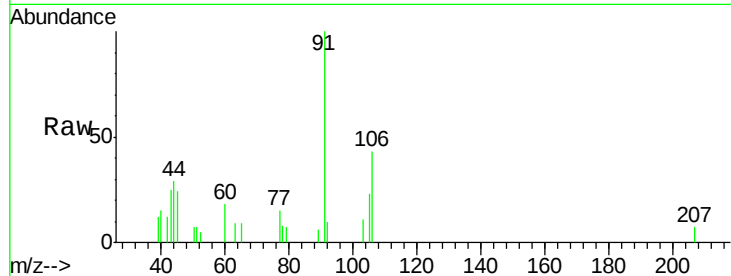
HS-SOIL

Tot Ion:106 Resp: 2564

Ion Ratio Lower Upper

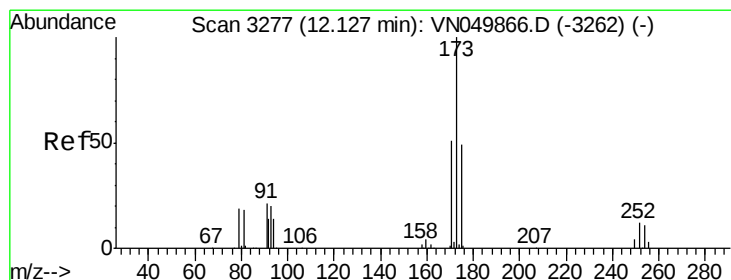
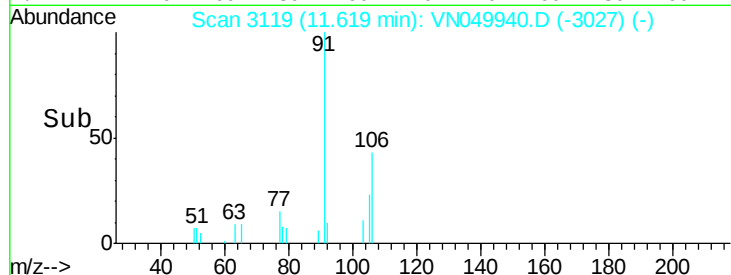
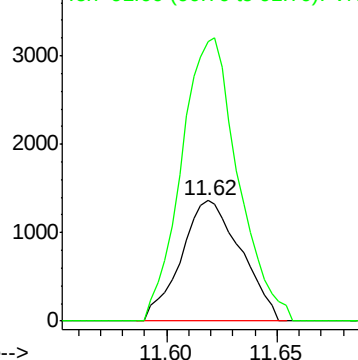
106 100

91 222.5 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#71

Bromoform

Concen: 0.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

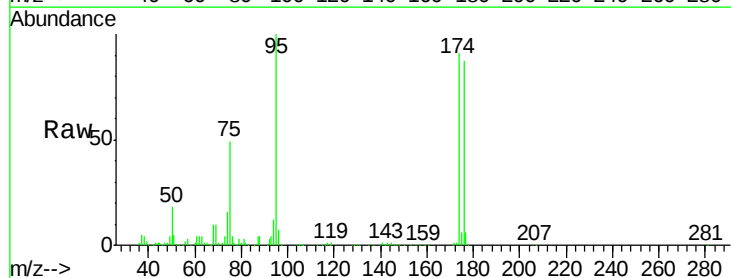
Tgt Ion:173 Resp: 3176

Ion Ratio Lower Upper

173 100

175 595.2 24.6 73.8#

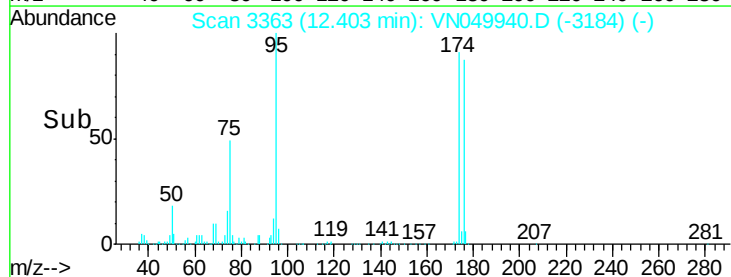
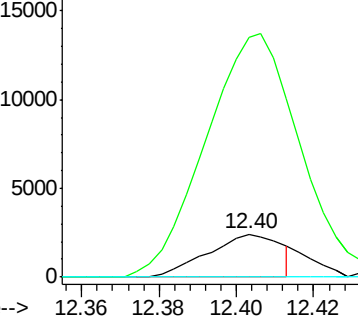
254 0.0 0.2 0.2#

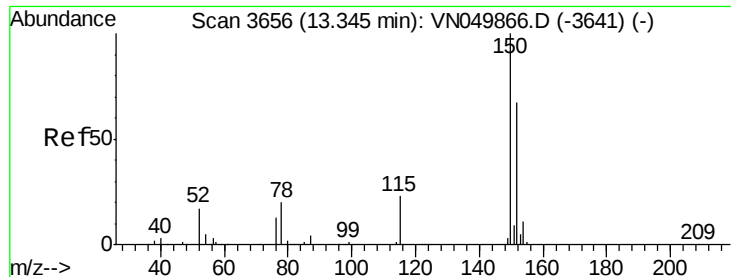


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampleId :

HS-SOIL

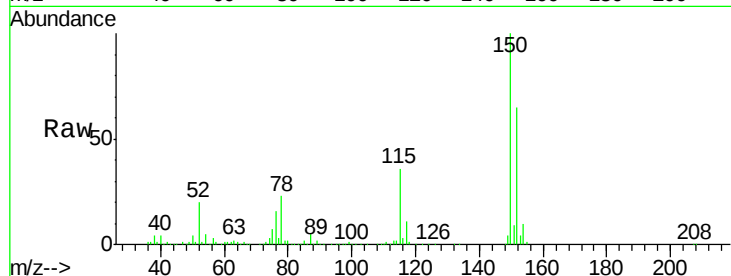
Tot Ion:152 Resp: 295773

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

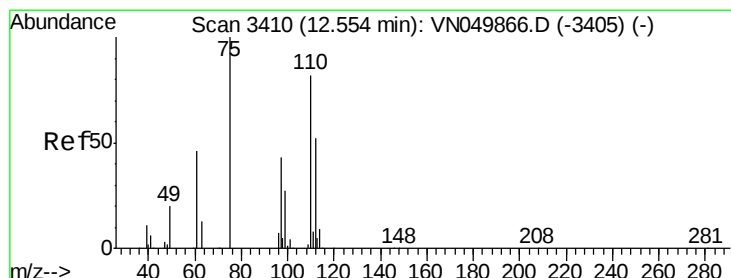
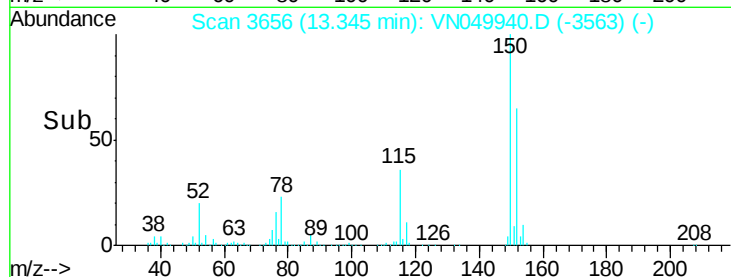
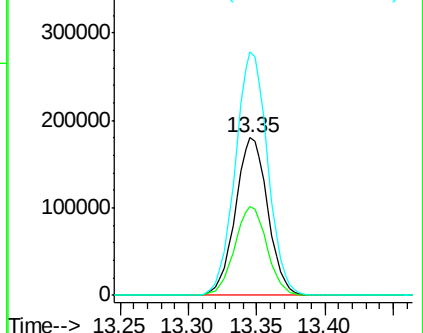
150 154.8 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 31.51 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049940.D

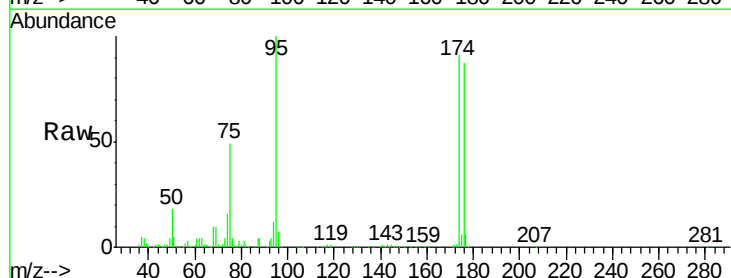
Acq: 20 Jul 2018 2:22

Tgt Ion: 75 Resp: 174850

Ion Ratio Lower Upper

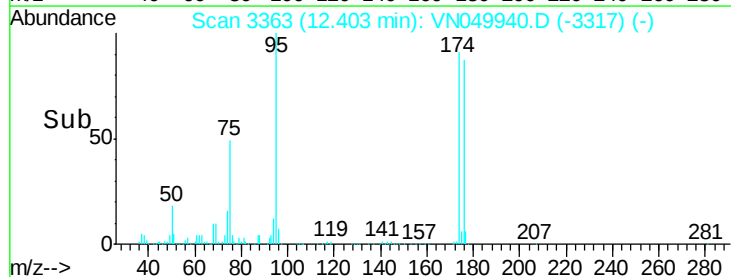
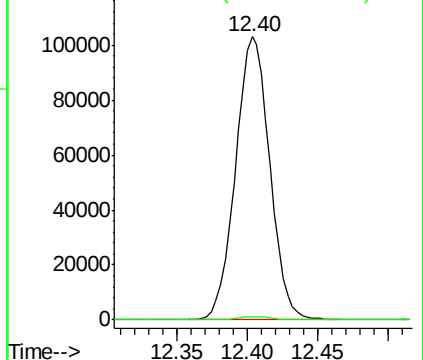
75 100

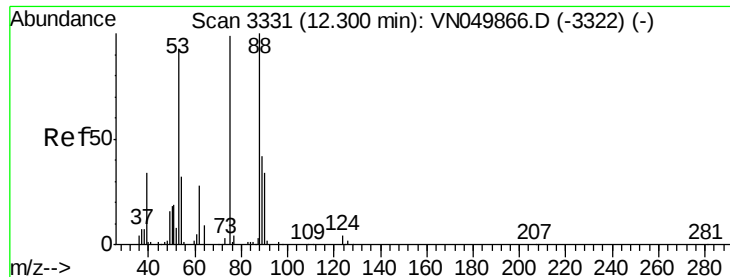
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 98.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

Instrument :

MSVOA_N

ClientSampled :

HS-SOIL

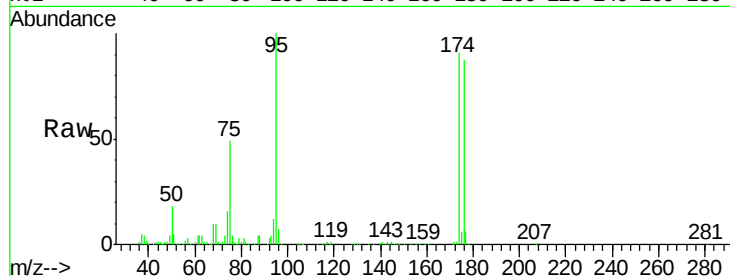
Tot Ion: 75 Resp: 174850

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

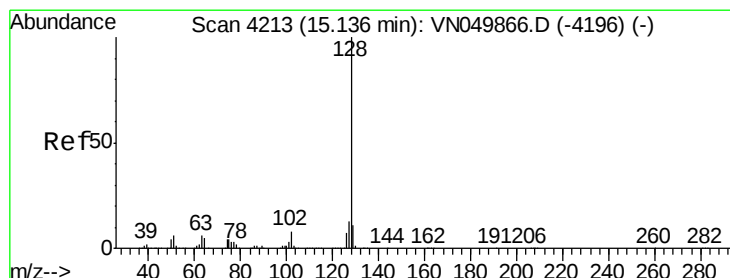
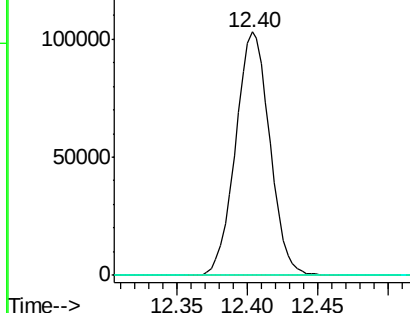
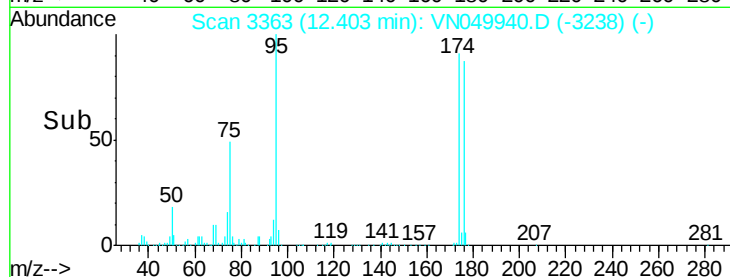
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049940.D (-3238) (-)

Ion 53.00 (52.70 to 53.70): VN049940.D (-3238) (-)

Ion 88.90 (88.60 to 89.60): VN049940.D (-3238) (-)



#95

Naphthalene

Concen: 5.57 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049940.D

Acq: 20 Jul 2018 2:22

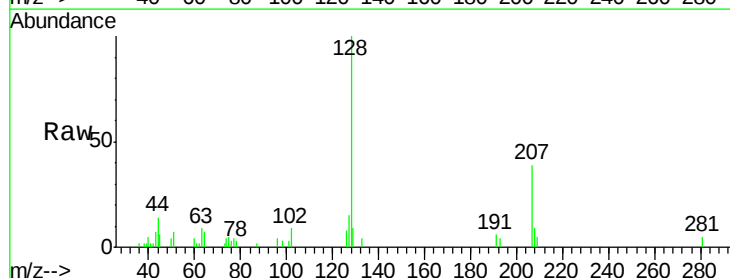
Tgt Ion: 128 Resp: 16586

Ion Ratio Lower Upper

128 100

127 14.3 10.4 15.6

129 11.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): VN049940.D (-4120) (-)

Ion 127.00 (126.70 to 127.70): VN049940.D (-4120) (-)

Ion 129.00 (128.70 to 129.70): VN049940.D (-4120) (-)

