

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032520\
 Data File : VN060690.D
 Acq On : 25 Mar 2020 12:35
 Operator : JC/MD
 Sample : L2010-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Mar 26 02:48:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	183029	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	302395	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	274945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120379	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	117141	46.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.24%	
35) Dibromofluoromethane	7.56	113	87903	48.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.14%	
50) Toluene-d8	10.08	98	368600	49.35	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.40	95	131650	48.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.20%	

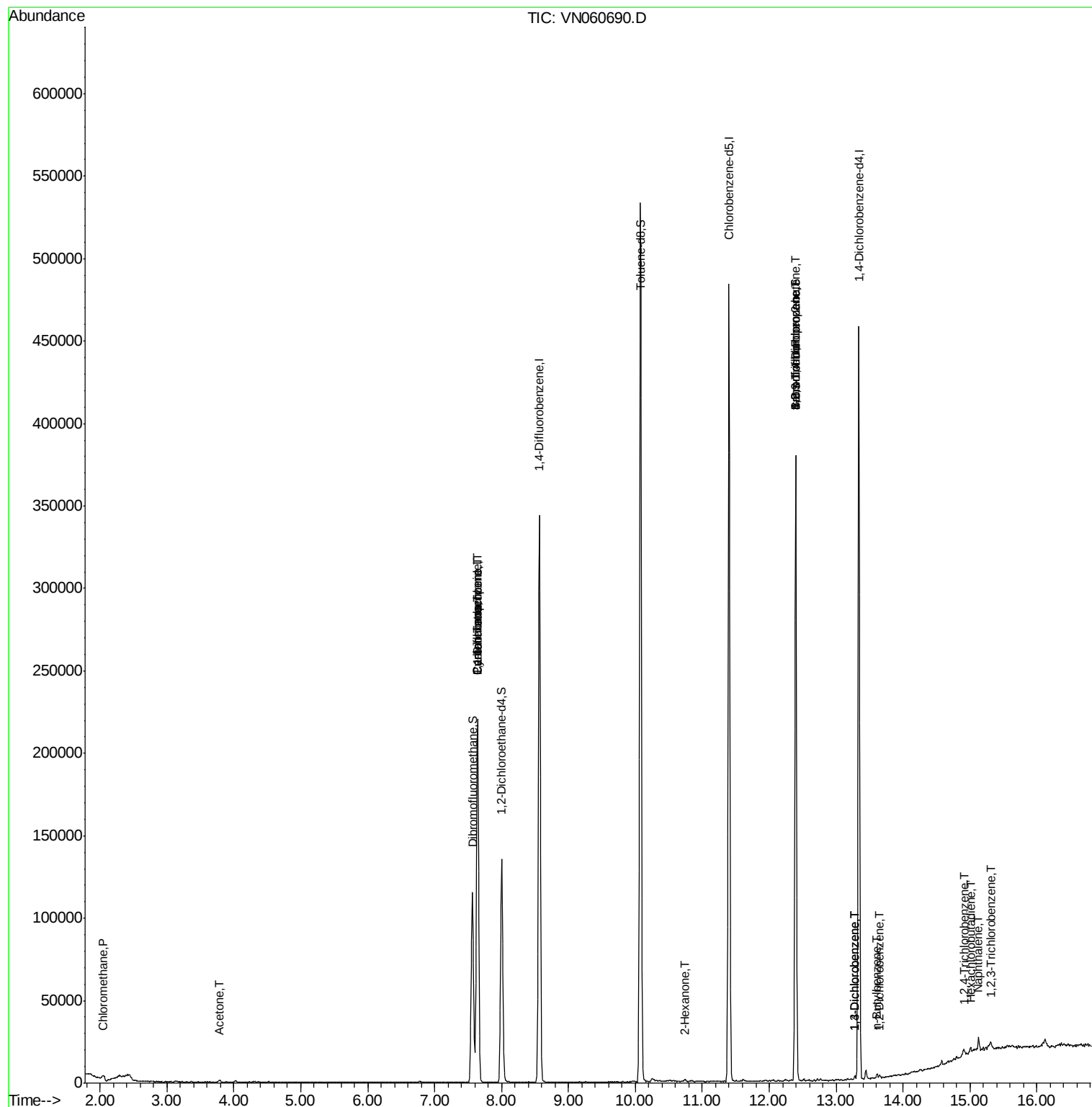
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1053	0.318	ug/l	96
16) Acetone	3.79	43	2428	2.728	ug/l	96
31) Cyclohexane	7.64	56	3763	0.930	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14024	4.789	ug/l #	49
38) Carbon Tetrachloride	7.64	117	17006	6.480	ug/l #	17
59) 2-Hexanone	10.74	43	1502	0.702	ug/l #	56
71) Bromoform	12.40	173	133	1.759	ug/l #	1
76) 1,2,3-Trichloropropane	12.39	75	65970	25.397	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	65970	65.228	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	773	0.201	ug/l	97
88) 1,4-Dichlorobenzene	13.28	146	773	0.200	ug/l	96
89) n-Butylbenzene	13.61	91	1740	0.251	ug/l	86
91) 1,2-Dichlorobenzene	13.65	146	744	0.203	ug/l	99
93) 1,2,4-Trichlorobenzene	14.91	180	1460	0.648	ug/l	93
94) Hexachlorobutadiene	15.00	225	698	0.632	ug/l	85
95) Naphthalene	15.13	128	5732	0.845	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	1597	0.719	ug/l	97

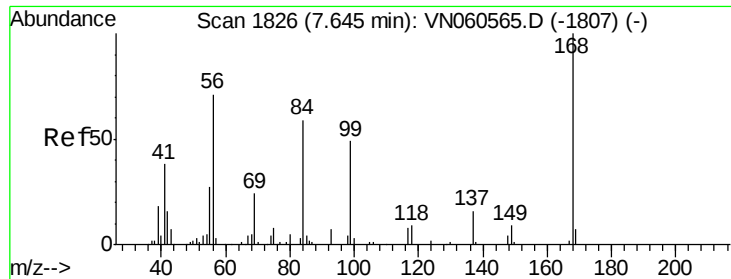
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

Instrument :

MSVOA_N

ClientSampleId :

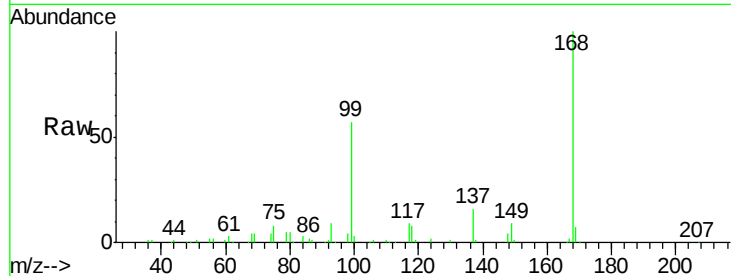
STORAGE-BLANK-SOIL-REF-6

Tgt Ion:168 Resp: 183029

Ion Ratio Lower Upper

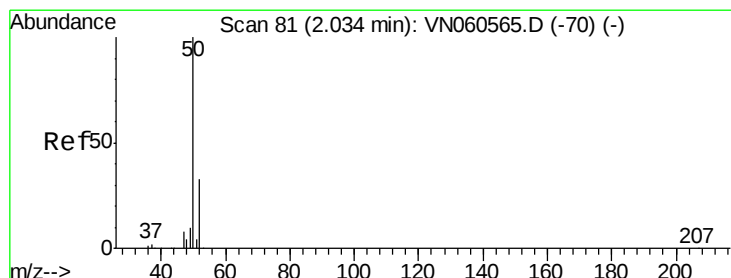
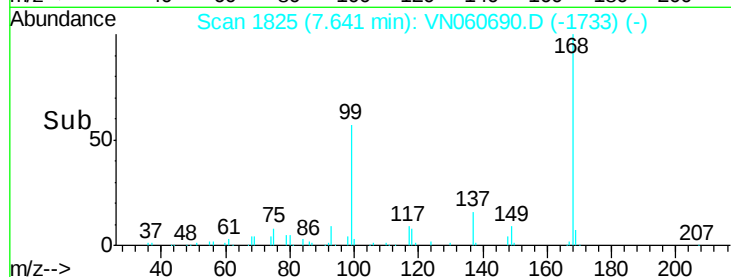
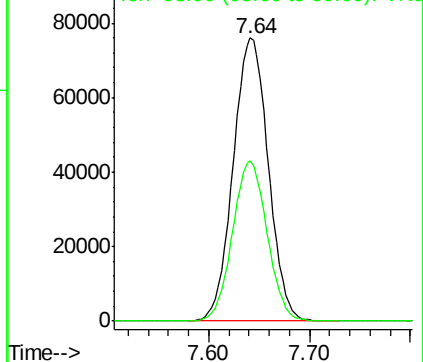
168 100

99 56.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.318 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN060690.D

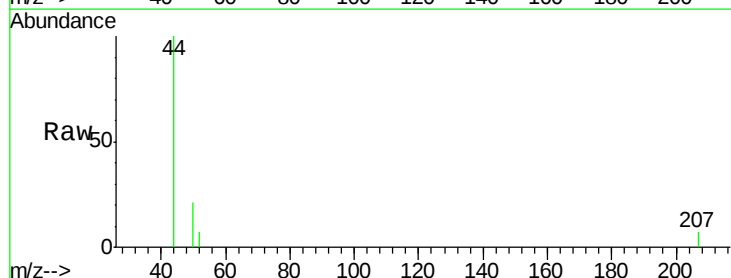
Acq: 25 Mar 2020 12:35

Tgt Ion: 50 Resp: 1053

Ion Ratio Lower Upper

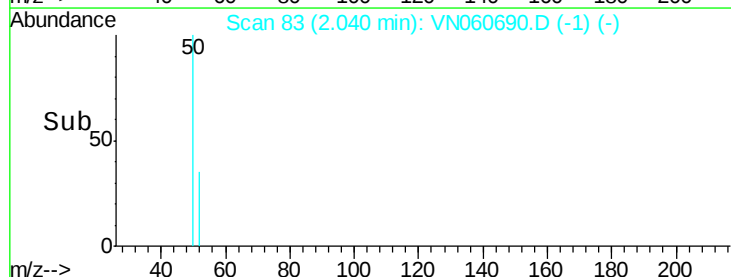
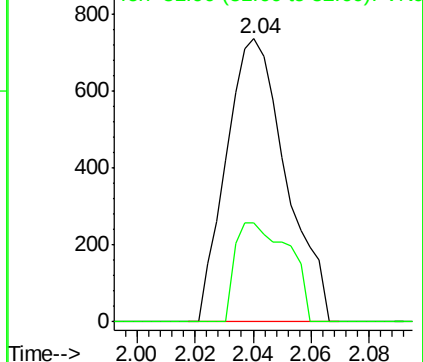
50 100

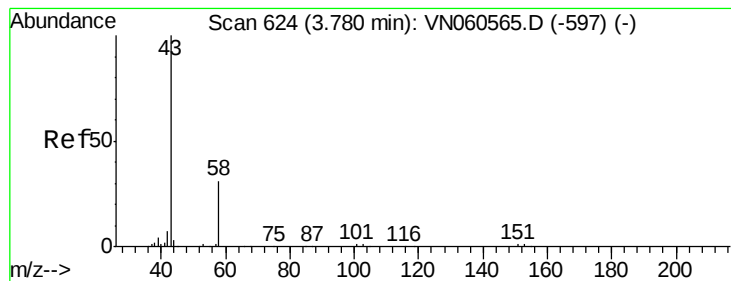
52 35.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#16

Acetone

Concen: 2.728 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

Instrument :

MSVOA_N

ClientSampleId :

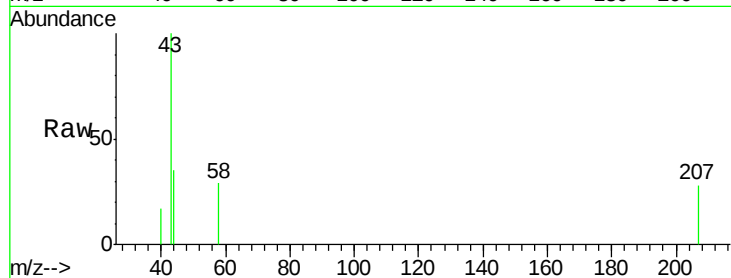
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 43 Resp: 2428

Ion Ratio Lower Upper

43 100

58 29.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-597) (-)

3.79

800

600

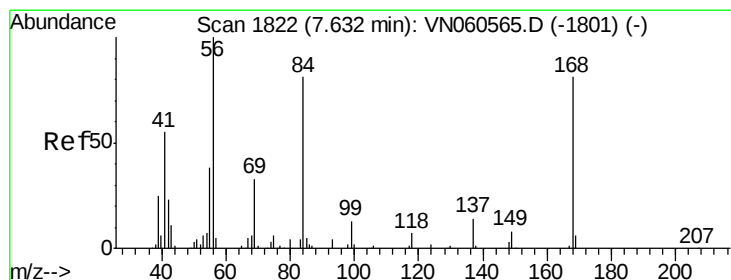
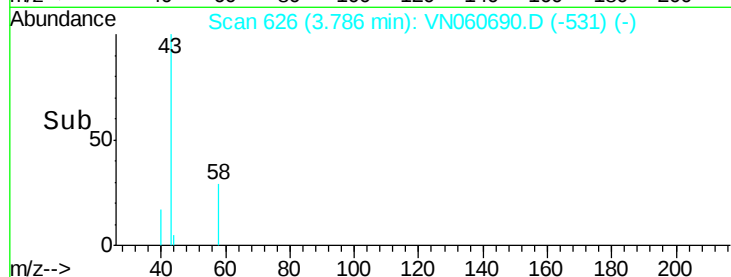
400

200

0

3.70 3.75 3.80 3.85

Time-->



#31

Cyclohexane

Concen: 0.930 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

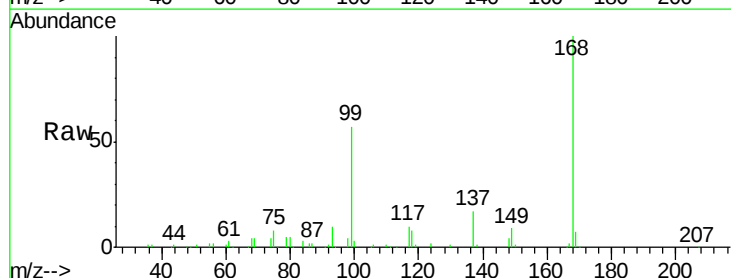
Tgt Ion: 56 Resp: 3763

Ion Ratio Lower Upper

56 100

69 173.6 26.6 40.0#

84 146.2 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060565.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN060565.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN060565.D (-1801) (-)

7.64

4000

3000

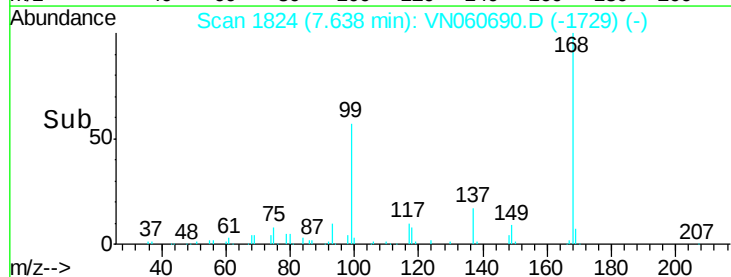
2000

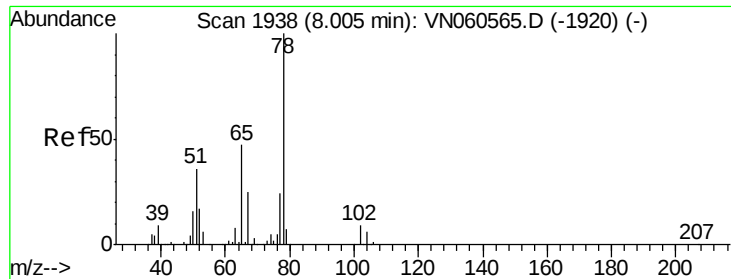
1000

0

7.60 7.65 7.70

Time-->

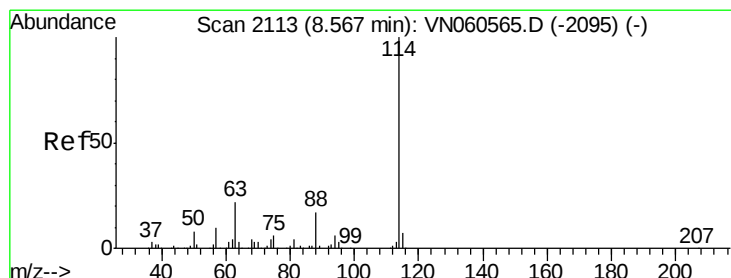
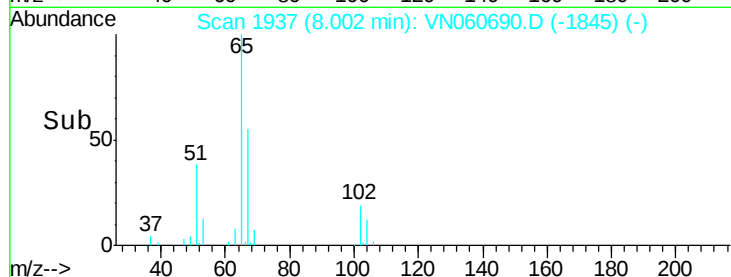
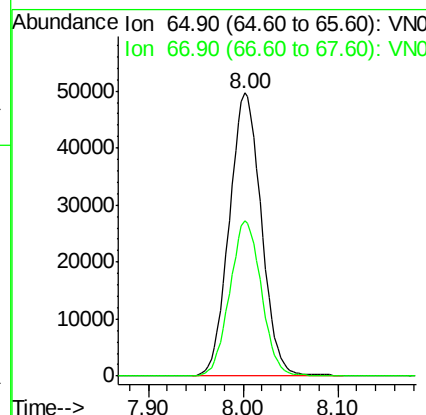
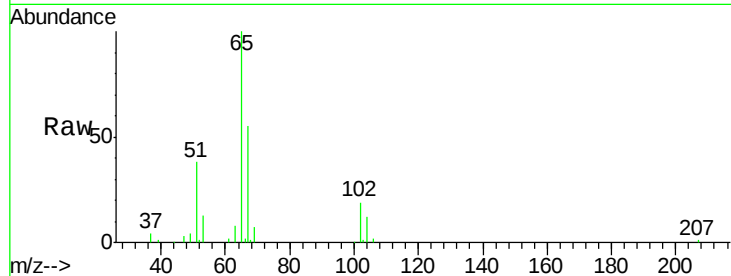




#33
 1,2-Dichloroethane-d4
 Concen: 46.622 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

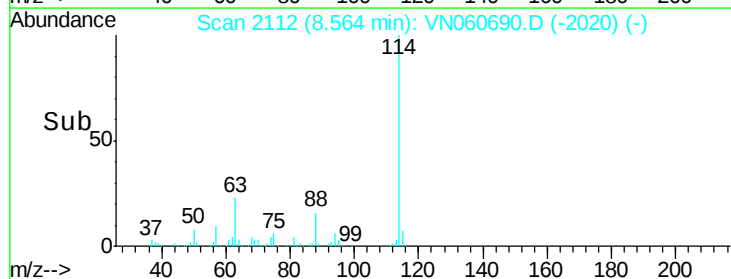
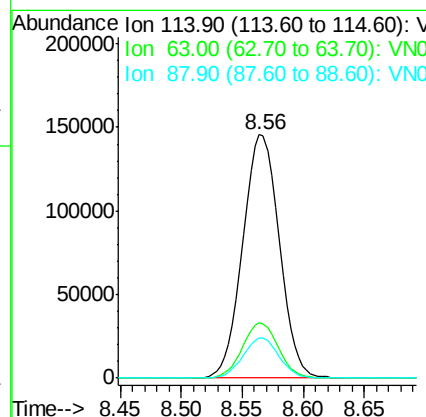
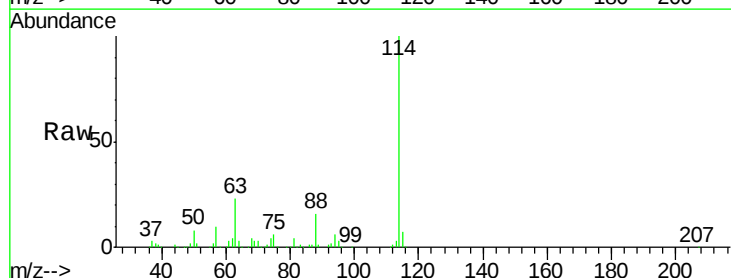
Instrument :
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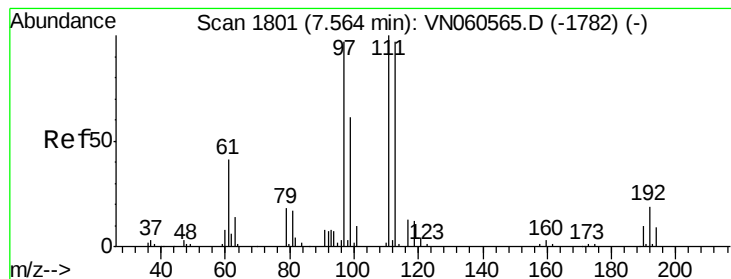
Tgt Ion: 65 Resp: 117141
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

Tgt Ion: 114 Resp: 302395
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.8
 88 16.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.074 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

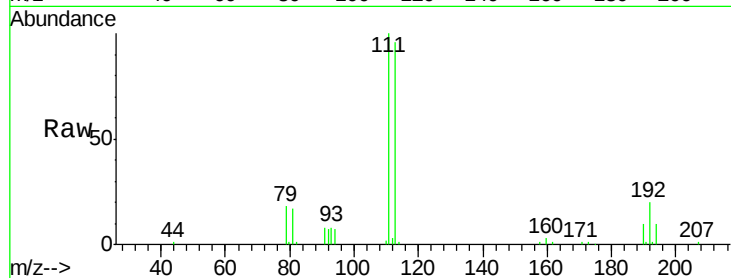
Tgt Ion:113 Resp: 87903

Ion Ratio Lower Upper

113 100

111 104.6 82.9 124.3

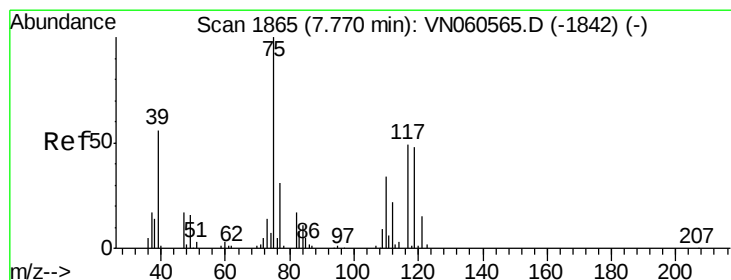
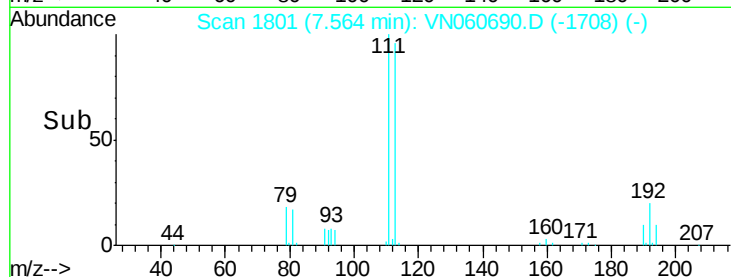
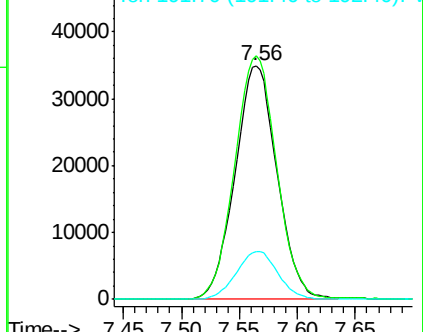
192 20.3 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.789 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

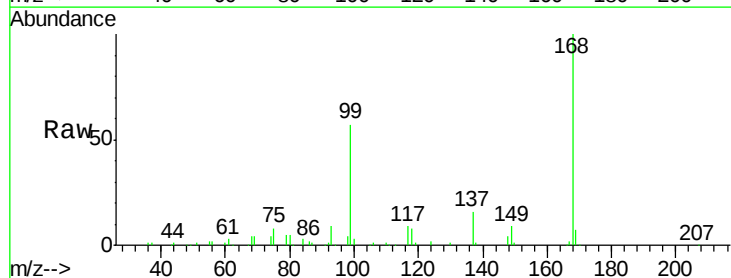
Tgt Ion: 75 Resp: 14024

Ion Ratio Lower Upper

75 100

110 7.7 16.9 50.6#

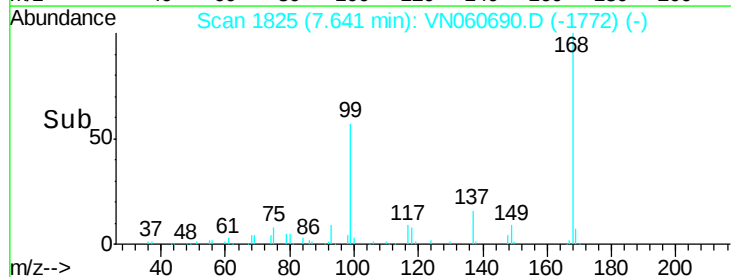
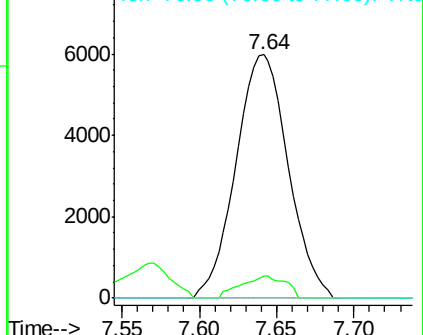
77 0.0 24.6 36.8#

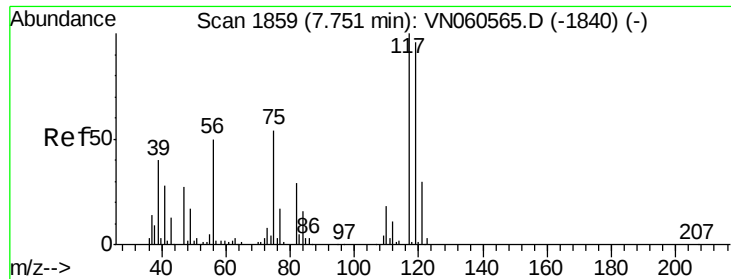


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.480 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

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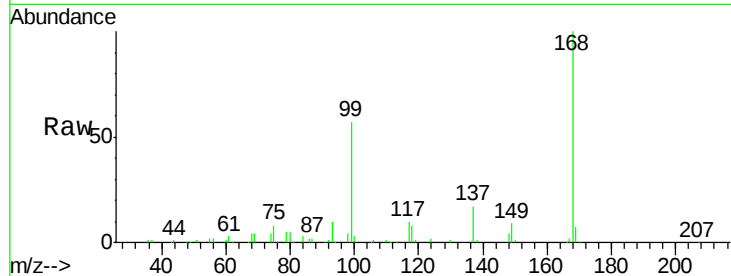
Tgt Ion:117 Resp: 17006

Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

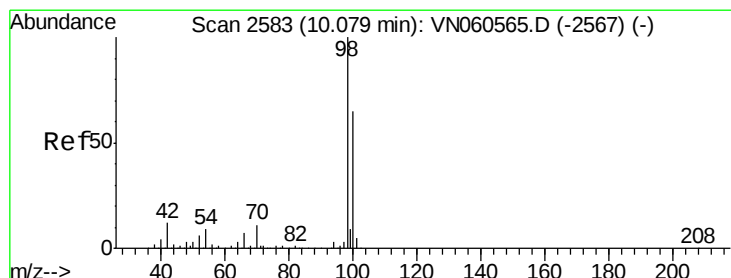
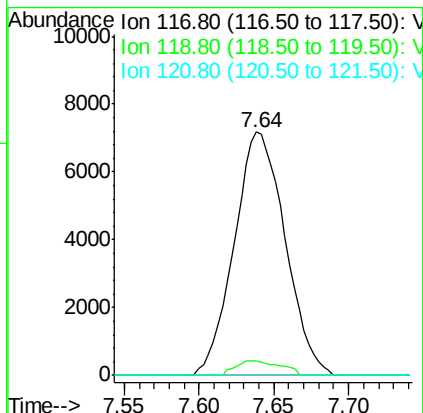
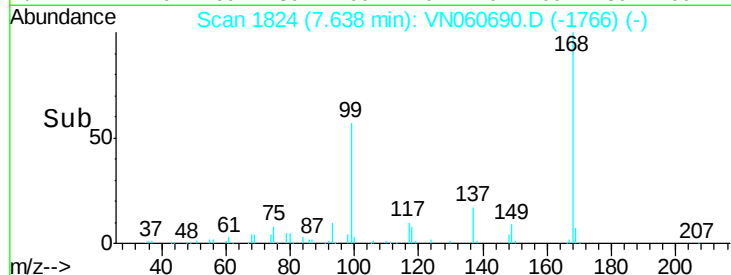
121 0.0 23.7 35.5#



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



#50

Toluene-d8

Concen: 49.353 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060690.D

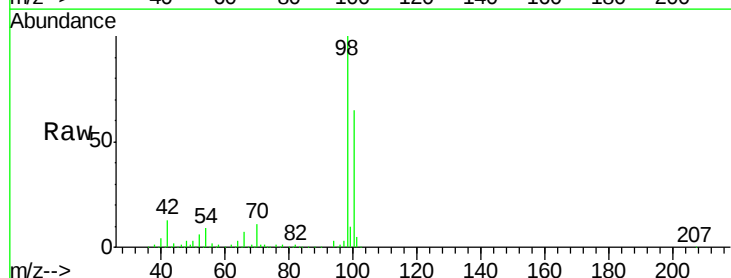
Acq: 25 Mar 2020 12:35

Tgt Ion: 98 Resp: 368600

Ion Ratio Lower Upper

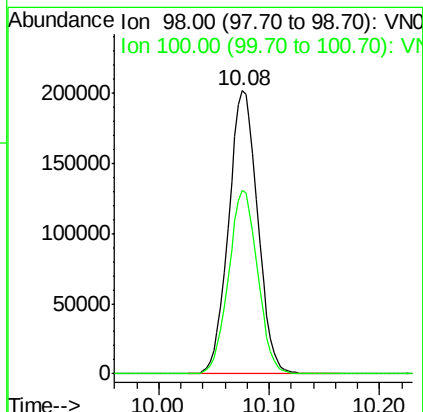
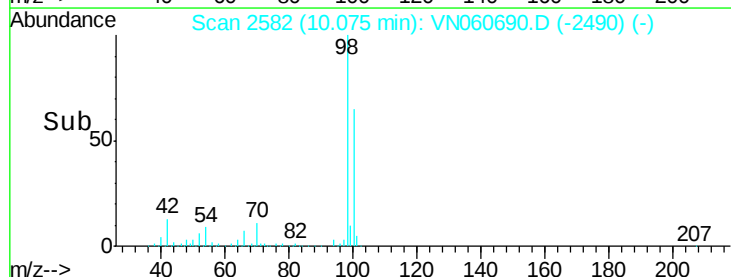
98 100

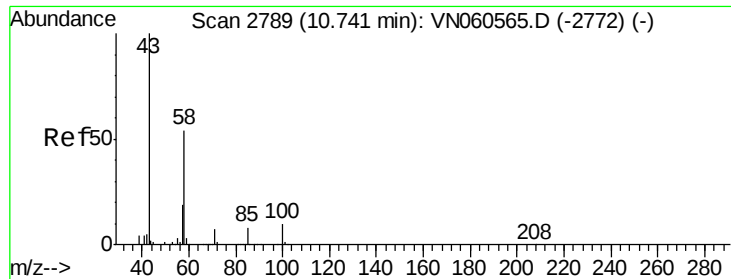
100 64.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

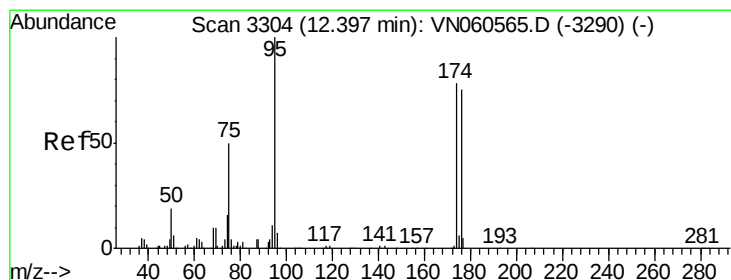
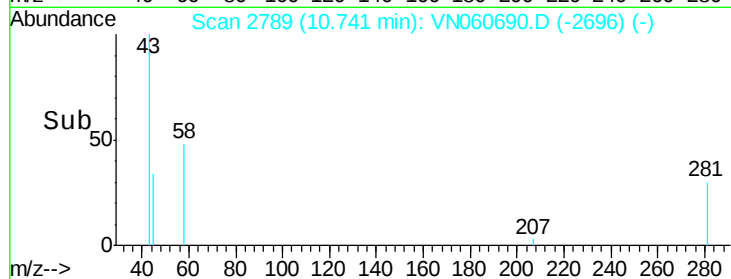
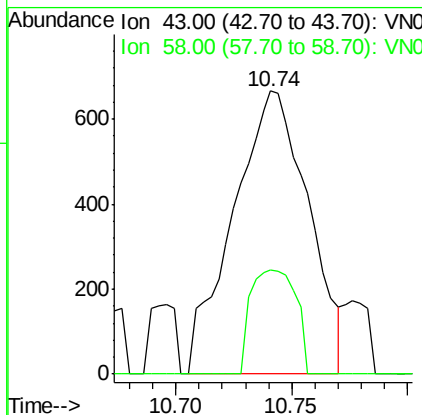
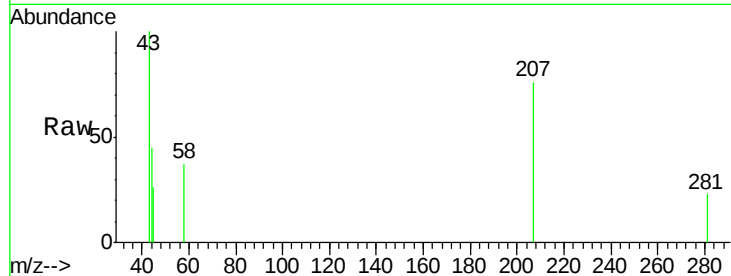




#59
2-Hexanone
Concen: 0.702 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN060690.D
Acq: 25 Mar 2020 12:35

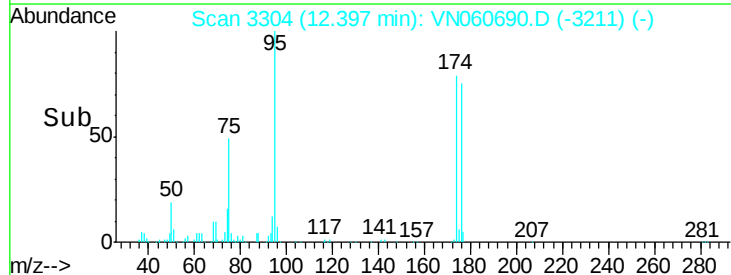
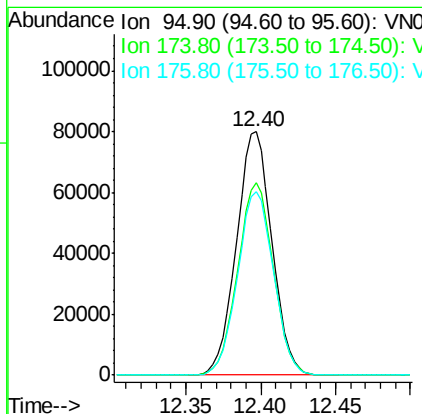
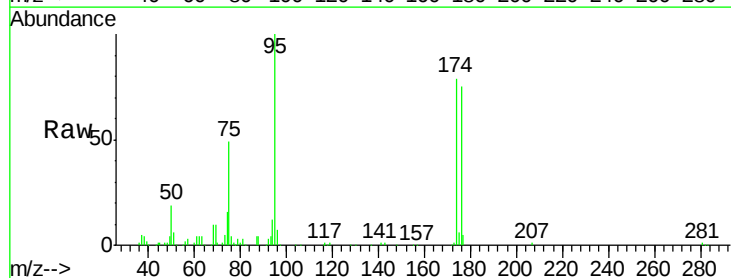
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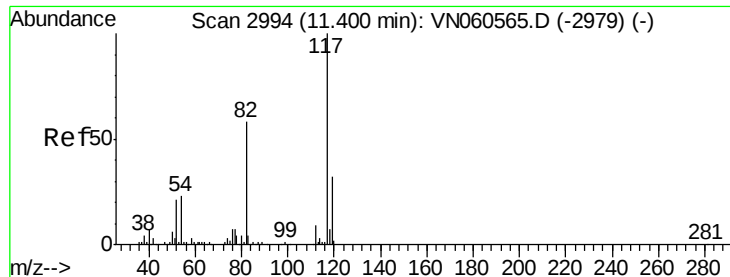
Tgt Ion: 43 Resp: 1502
Ion Ratio Lower Upper
43 100
58 22.0 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 48.097 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060690.D
Acq: 25 Mar 2020 12:35

Tgt Ion: 95 Resp: 131650
Ion Ratio Lower Upper
95 100
174 79.4 0.0 157.6
176 76.5 0.0 150.6

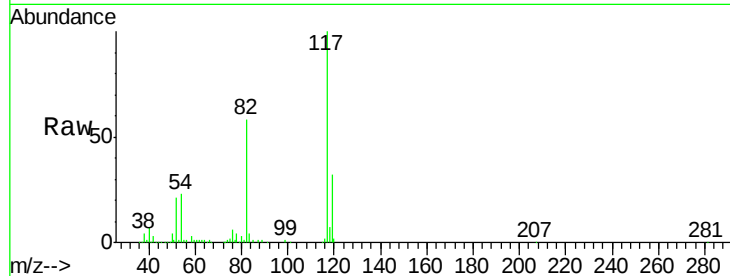




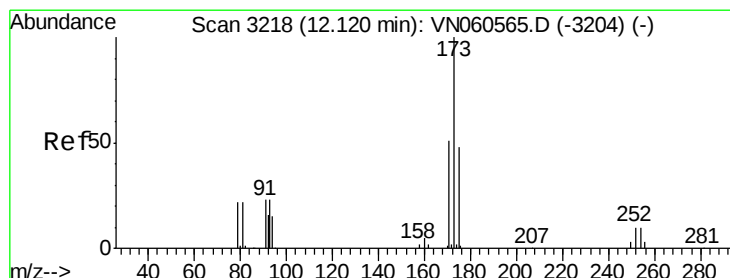
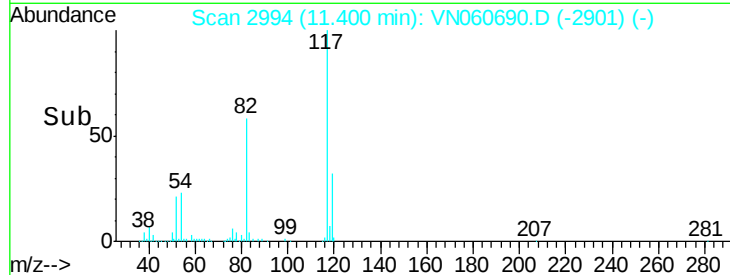
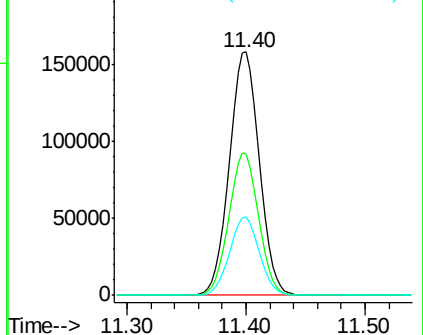
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060690.D
Acq: 25 Mar 2020 12:35

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

Tgt Ion:117 Resp: 274945
Ion Ratio Lower Upper
117 100
82 58.0 46.7 70.1
119 32.0 25.5 38.3

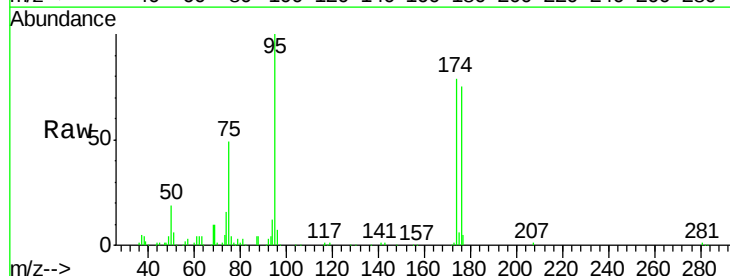


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

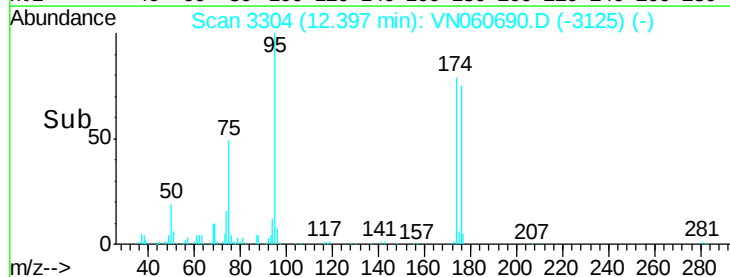
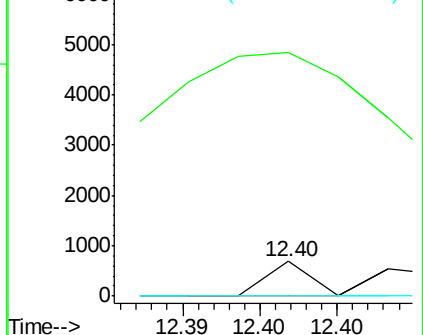


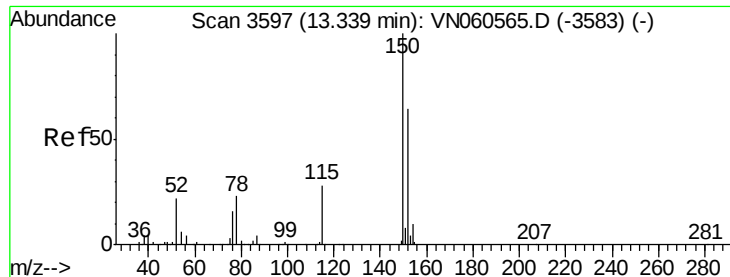
#71
Bromoform
Concen: 1.759 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060690.D
Acq: 25 Mar 2020 12:35

Tgt Ion:173 Resp: 133
Ion Ratio Lower Upper
173 100
175 5046.6 24.1 72.4#
254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

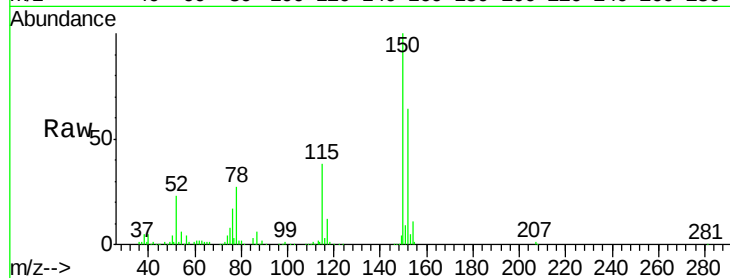
Tgt Ion:152 Resp: 120379

Ion Ratio Lower Upper

152 100

115 59.6 30.2 90.6

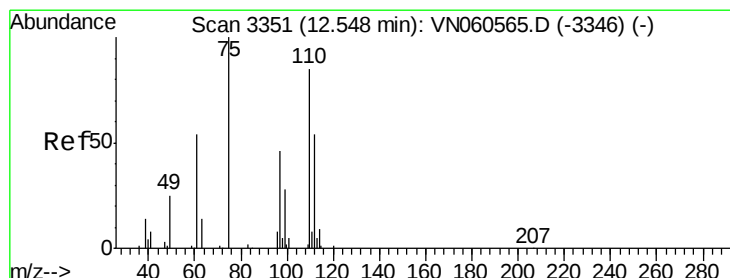
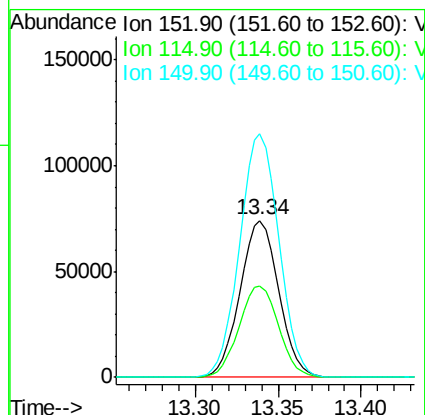
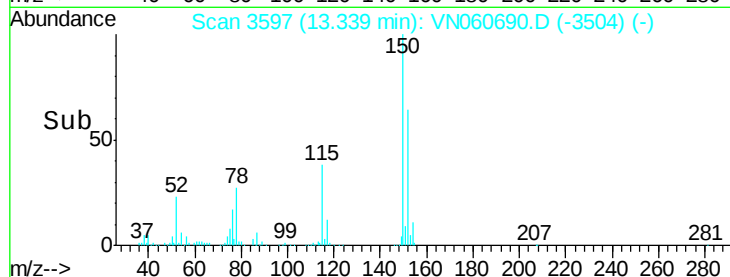
150 157.7 0.0 350.2



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: 25.397 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060690.D

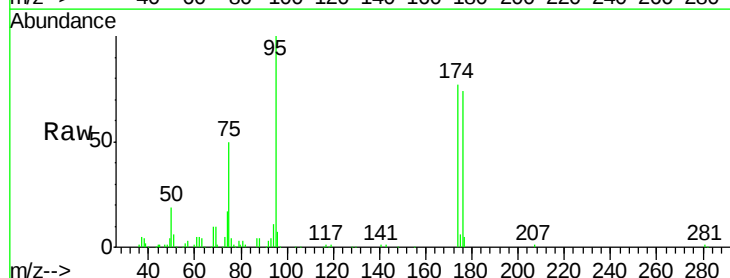
Acq: 25 Mar 2020 12:35

Tgt Ion: 75 Resp: 65970

Ion Ratio Lower Upper

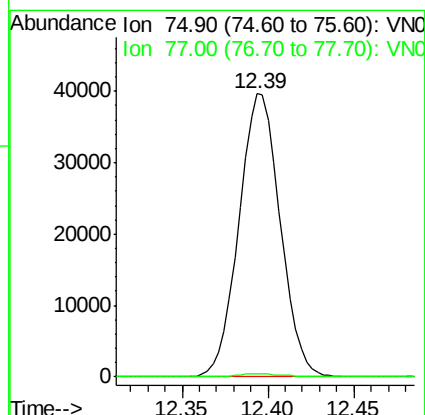
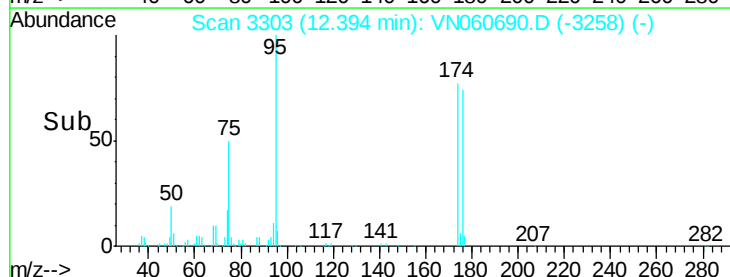
75 100

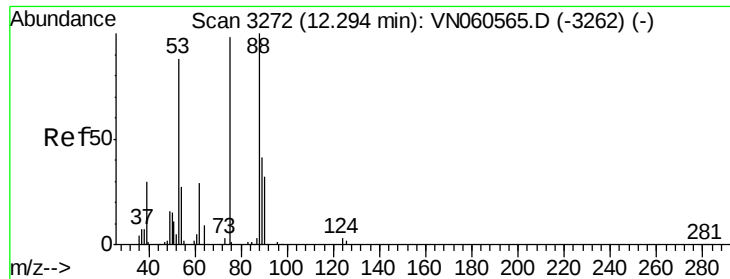
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

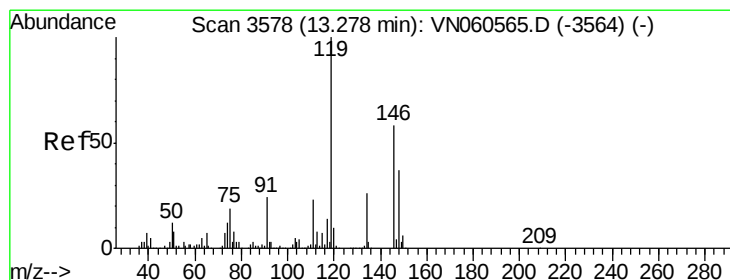
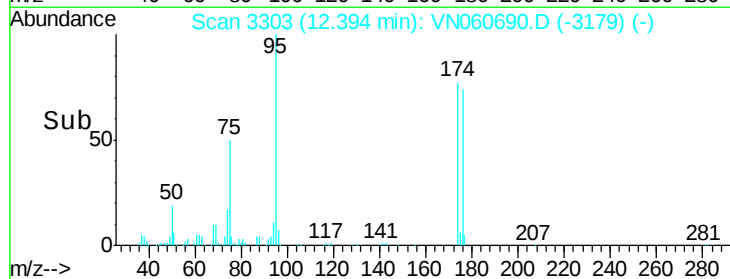
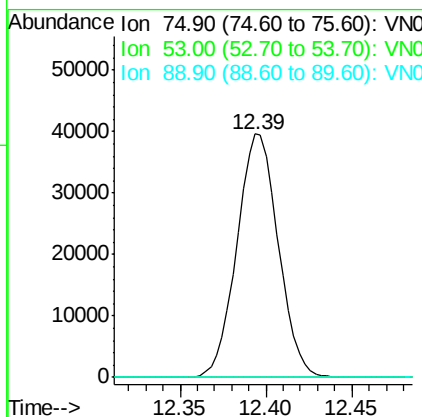
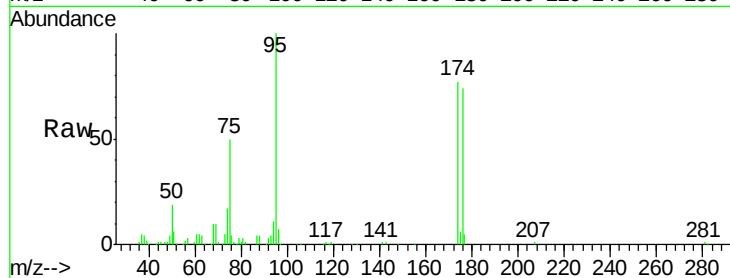




#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.228 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. 0.10 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

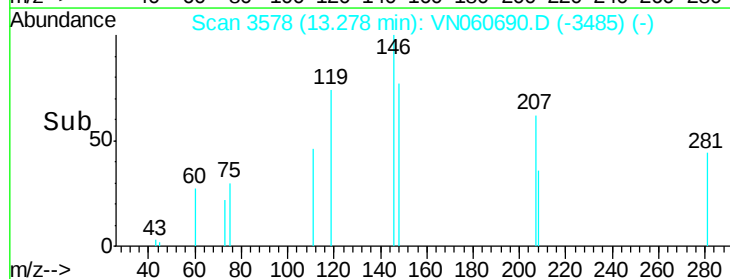
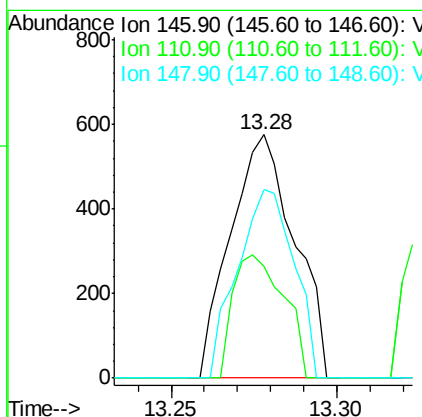
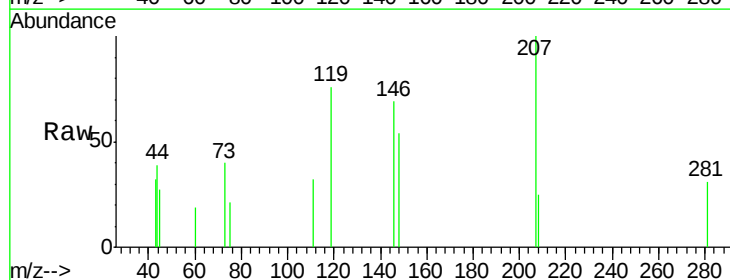
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

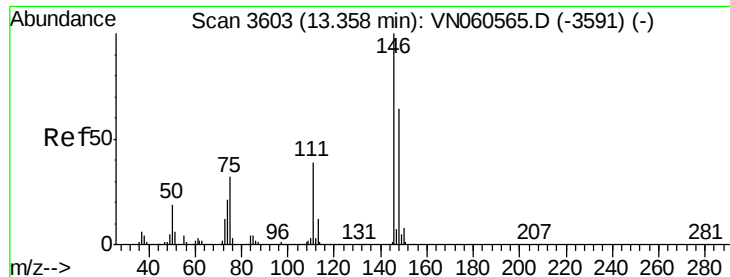
Tgt Ion: 75 Resp: 65970
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#



#87
 1,3-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

Tgt Ion: 146 Resp: 773
 Ion Ratio Lower Upper
 146 100
 111 40.0 20.3 60.8
 148 68.2 32.5 97.4

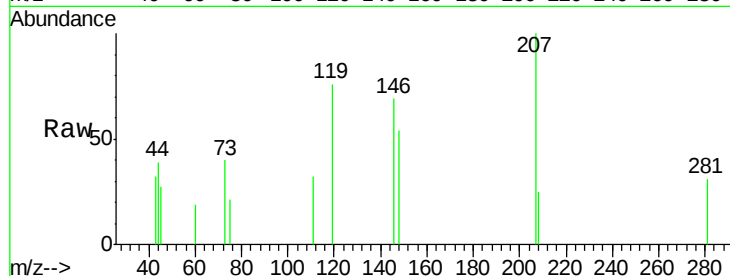




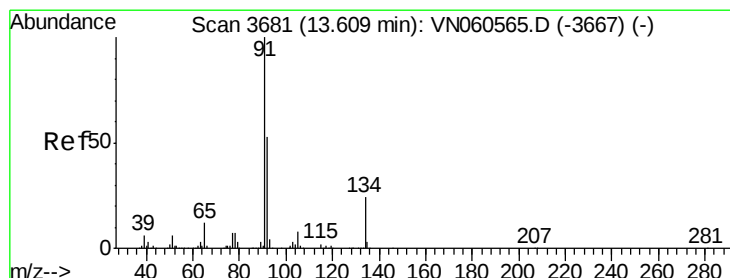
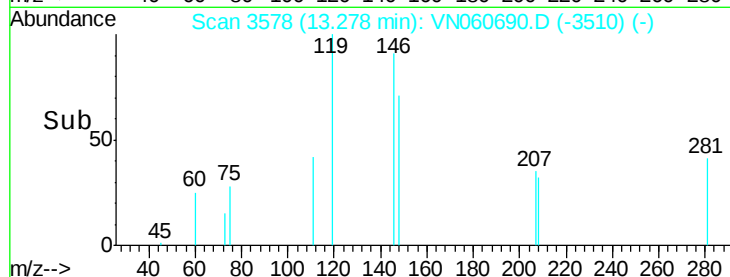
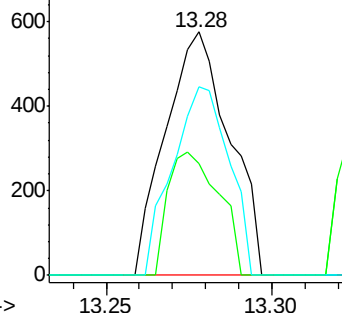
#88
 1,4-Dichlorobenzene
 Concen: 0.200 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.08 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tgt Ion:146 Resp: 773
 Ion Ratio Lower Upper
 146 100
 111 40.0 19.6 58.7
 148 68.2 32.1 96.3

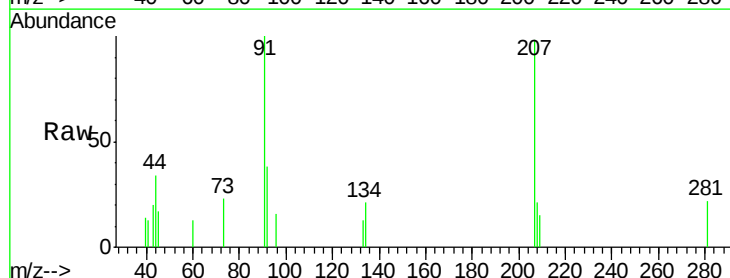


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

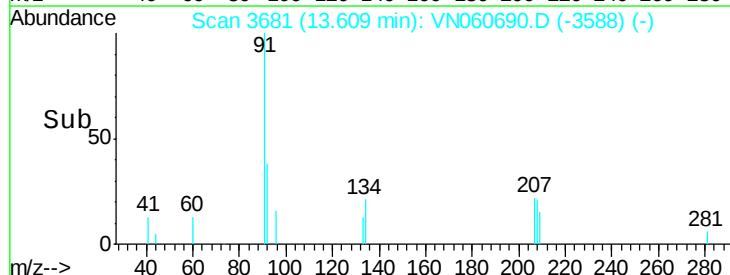
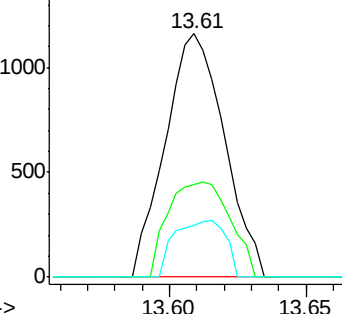


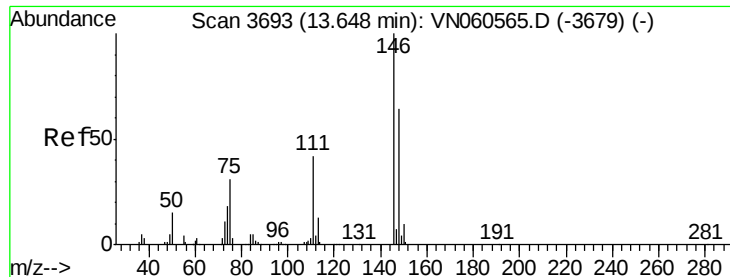
#89
 n-Butylbenzene
 Concen: 0.251 ug/l
 RT: 13.61 min Scan# 3681
 Delta R.T. 0.00 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

Tgt Ion: 91 Resp: 1740
 Ion Ratio Lower Upper
 91 100
 92 41.1 26.2 78.5
 134 20.1 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 0.203 ug/l

RT: 13.65 min Scan# 3693

Delta R.T. 0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

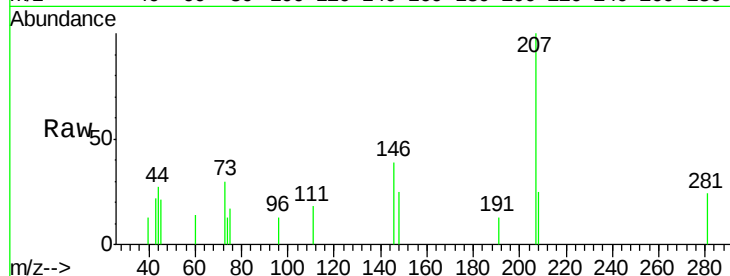
Tgt Ion:146 Resp: 744

Ion Ratio Lower Upper

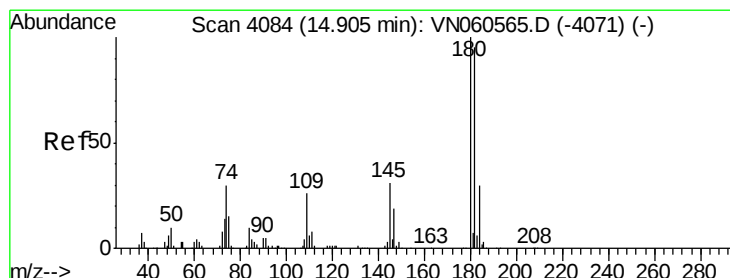
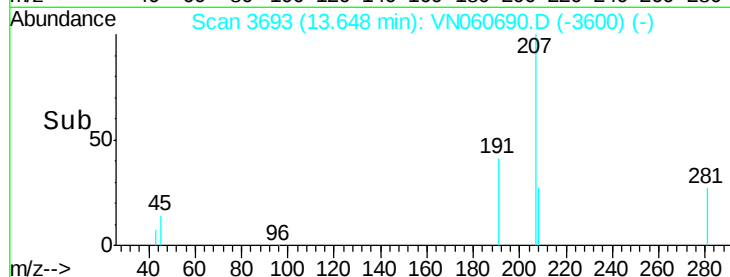
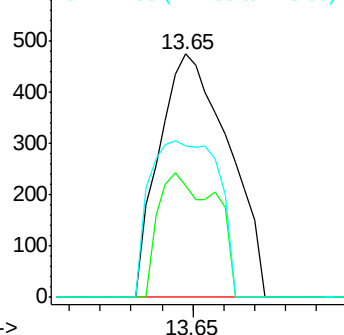
146 100

111 41.5 21.0 63.0

148 63.3 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.648 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

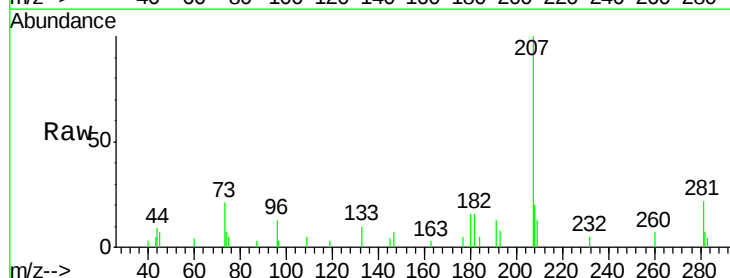
Tgt Ion:180 Resp: 1460

Ion Ratio Lower Upper

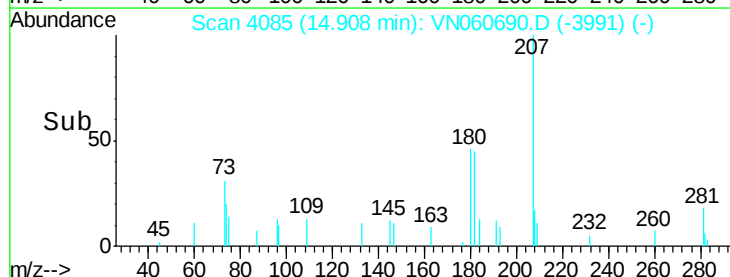
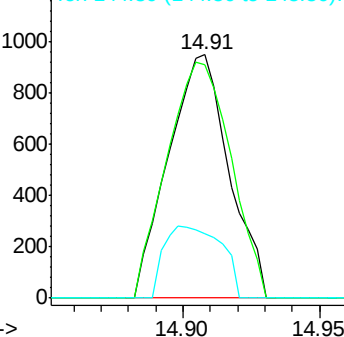
180 100

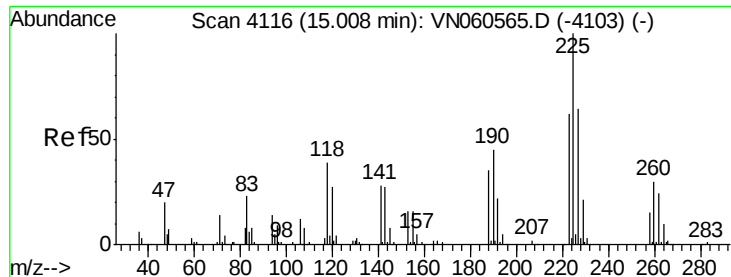
182 102.7 47.9 143.8

145 27.9 15.4 46.2



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.632 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

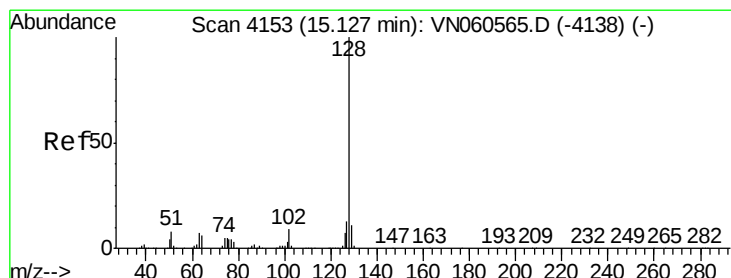
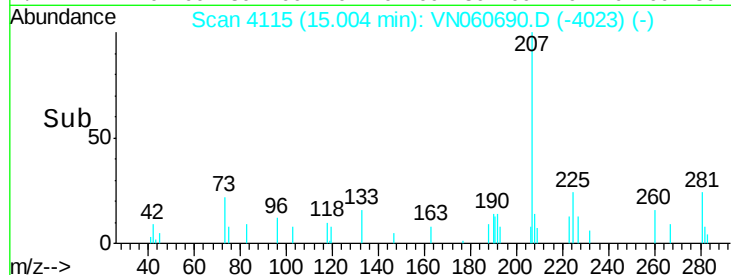
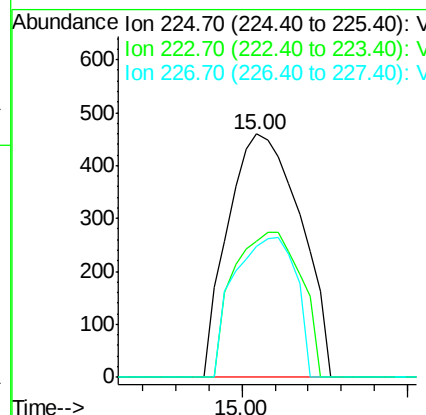
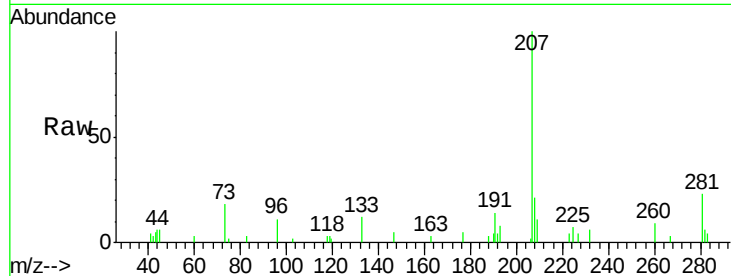
Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tgt Ion:	225	Resp:	698
Ion	Ratio	Lower	Upper
225	100		
223	55.4	31.6	95.0
227	48.9	32.3	96.8



#95

Naphthalene

Concen: 0.845 ug/l

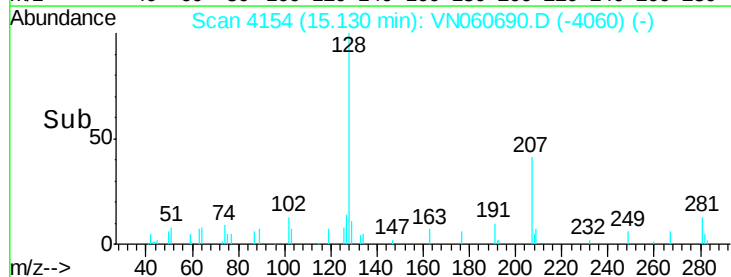
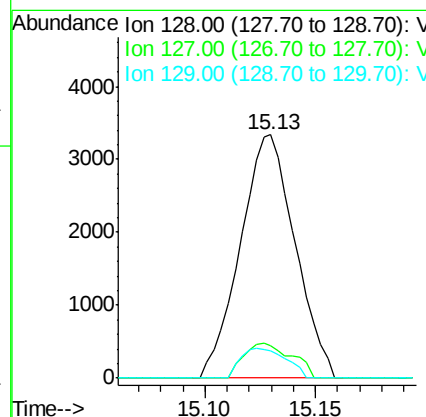
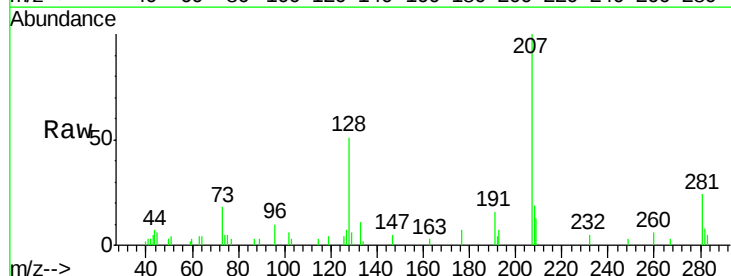
RT: 15.13 min Scan# 4154

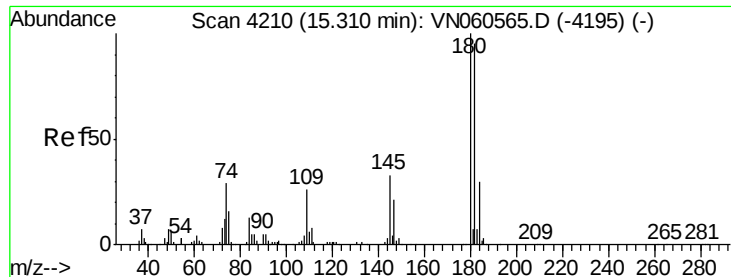
Delta R.T. 0.00 min

Lab File: VN060690.D

Acq: 25 Mar 2020 12:35

Tgt Ion:	128	Resp:	5732
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.2	8.8	13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.719 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.00 min
 Lab File: VN060690.D
 Acq: 25 Mar 2020 12:35

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tgt Ion:	180	Resp:	1597
Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.5	142.6
145	35.6	16.3	48.8

