

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120420\
 Data File : VX019723.D
 Acq On : 04 Dec 2020 17:44
 Operator : JC/MD
 Sample : L4959-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Dec 05 03:48:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	338995	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	563889	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	508110	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	228126	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	208177	46.72	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.44%
35) Dibromofluoromethane	5.46	113	170306	46.73	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.46%
50) Toluene-d8	8.70	98	665794	47.85	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	95.70%
62) 4-Bromofluorobenzene	11.12	95	240691	45.45	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.90%

Target Compounds

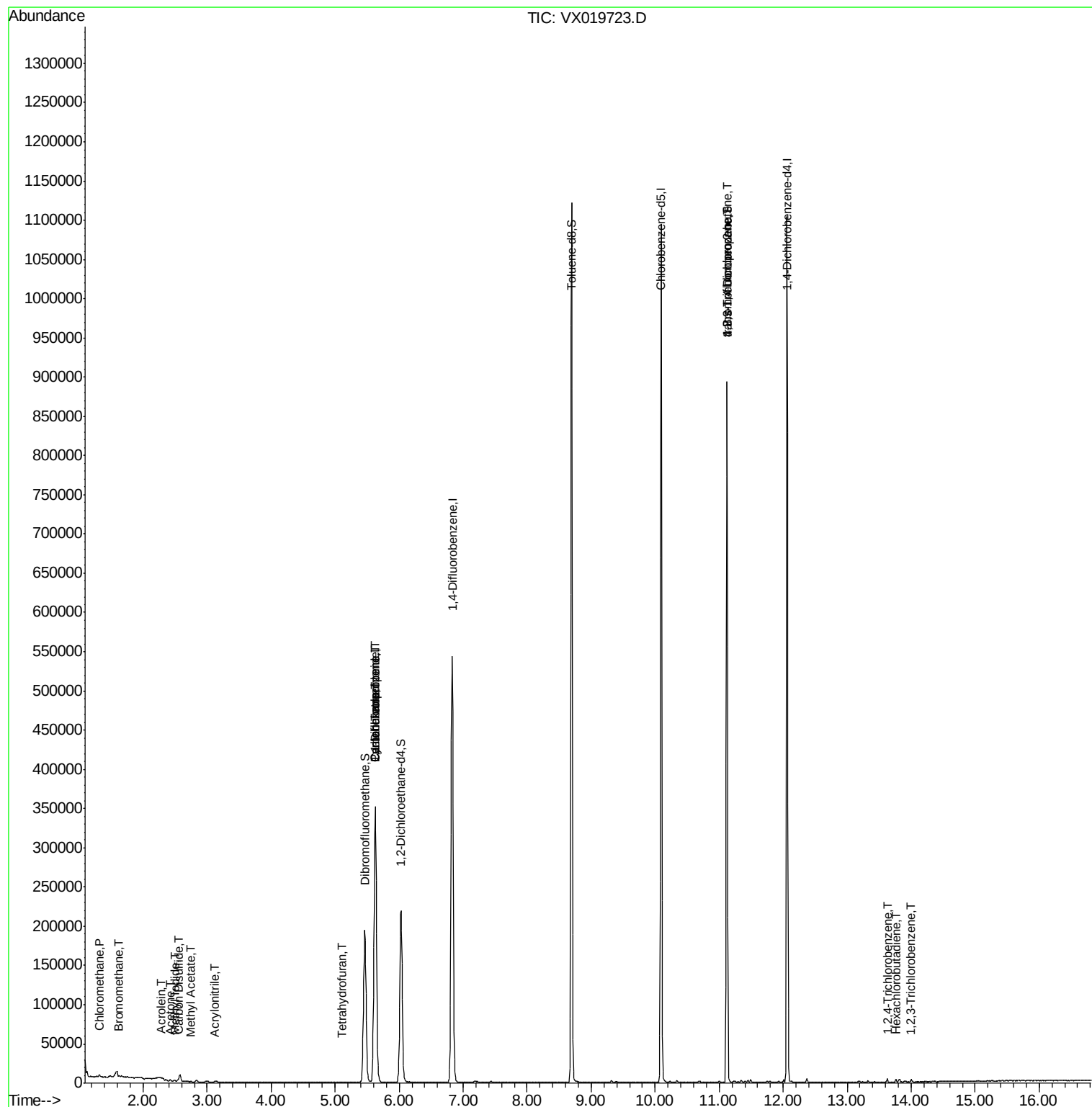
					Qvalue
3) Chloromethane	1.31	50	840	0.230 ug/l	93
5) Bromomethane	1.63	94	885	0.693 ug/l #	77
10) Methyl Iodide	2.50	142	1967	0.434 ug/l	98
11) Tert butyl alcohol	3.00	59	834	Below Cal #	73
13) Acrolein	2.28	56	409	0.832 ug/l #	74
15) Acrylonitrile	3.11	53	610	0.303 ug/l	93
16) Acetone	2.42	43	1456	0.869 ug/l #	84
17) Carbon Disulfide	2.55	76	3055	0.343 ug/l #	84
18) Methyl Acetate	2.74	43	843	0.206 ug/l #	62
20) Methylene Chloride	2.83	84	958	Below Cal	94
29) Tetrahydrofuran	5.10	42	388	0.234 ug/l #	39
31) Cyclohexane	5.63	56	6514	1.175 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25013	4.909 ug/l #	49
38) Carbon Tetrachloride	5.63	117	32709	6.555 ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	116388	22.748 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	116388	65.759 ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	990	0.213 ug/l	93
94) Hexachlorobutadiene	13.77	225	565	0.272 ug/l	94
96) 1,2,3-Trichlorobenzene	14.01	180	1066	0.235 ug/l	88

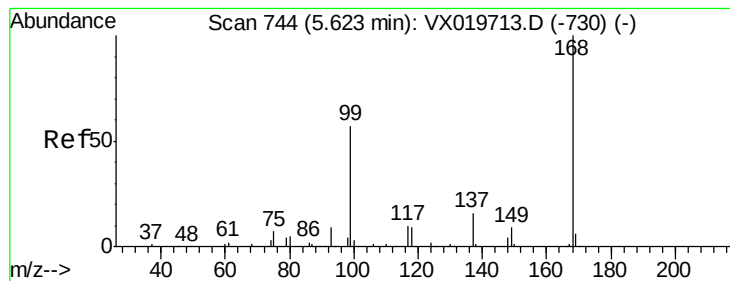
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

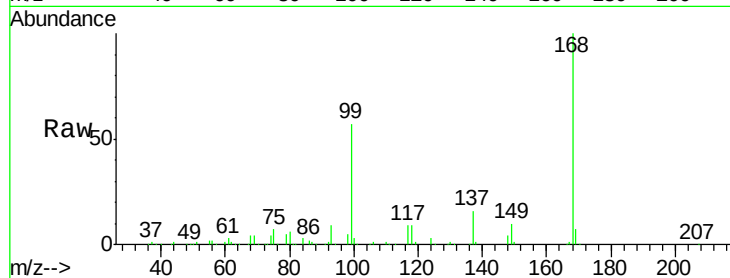
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 338995

Ion Ratio Lower Upper

168 100

99 57.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

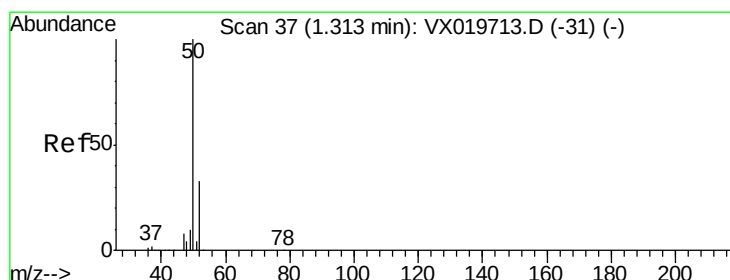
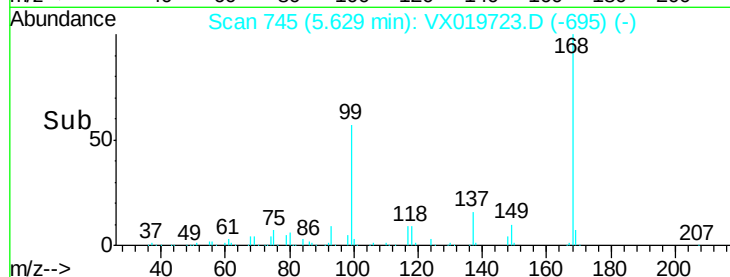
100000

50000

0

Time-->

5.50 5.60 5.70



#3

Chloromethane

Concen: 0.230 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019723.D

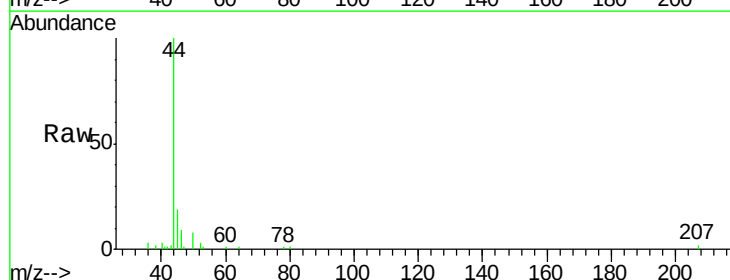
Acq: 04 Dec 2020 17:44

Tgt Ion: 50 Resp: 840

Ion Ratio Lower Upper

50 100

52 37.1 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

500

400

300

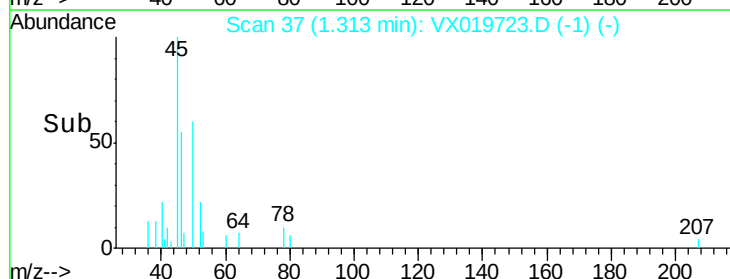
200

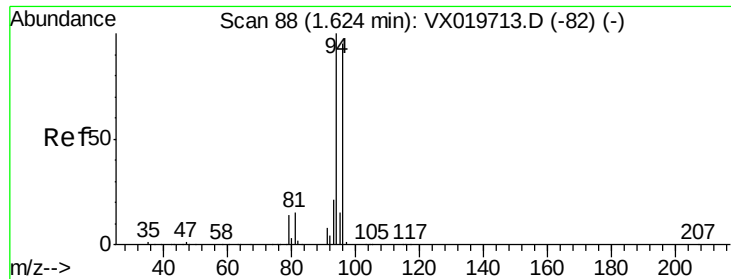
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.693 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

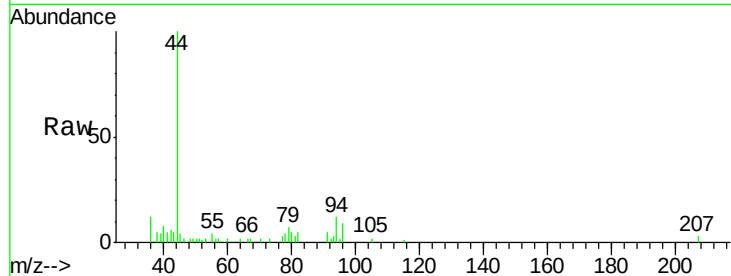
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 94 Resp: 885

Ion Ratio Lower Upper

94 100

96 72.7 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

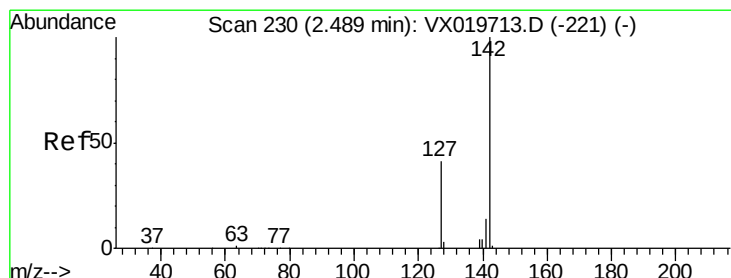
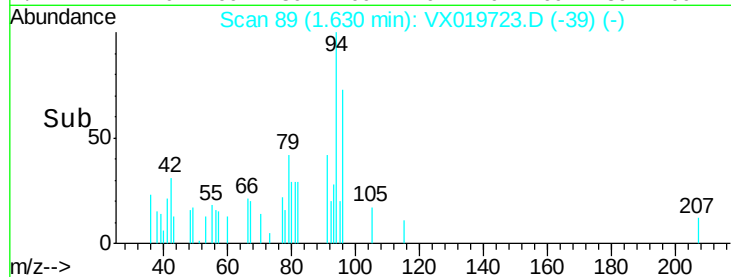
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 0.434 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

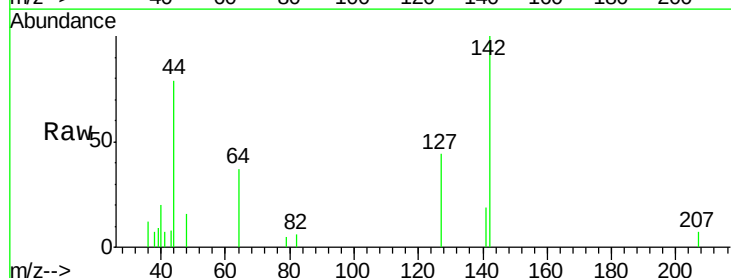
Tgt Ion: 142 Resp: 1967

Ion Ratio Lower Upper

142 100

127 42.7 33.3 49.9

141 14.9 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

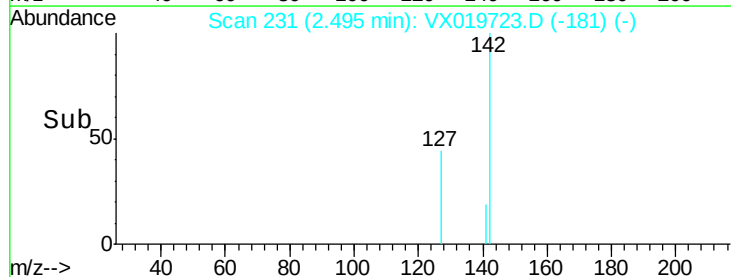
2.50

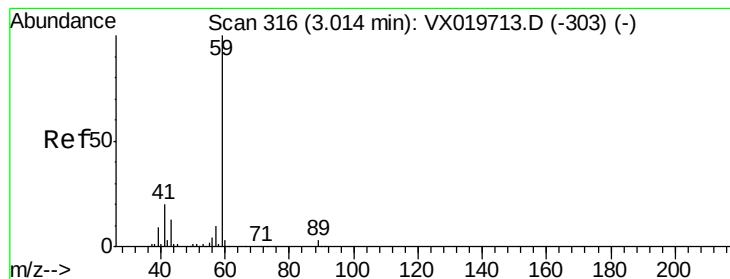
1000

500

0

Time-->



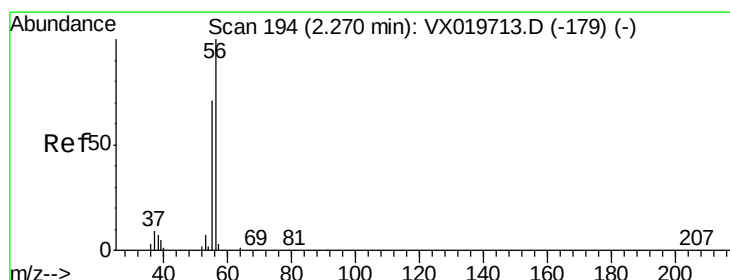
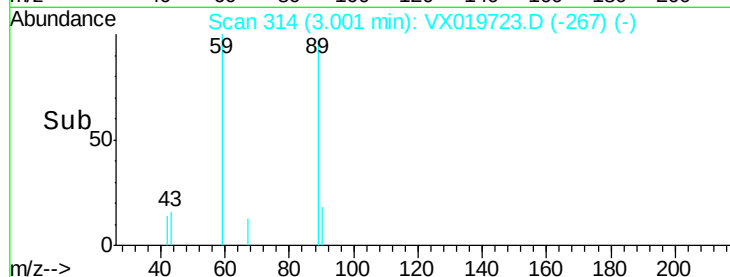
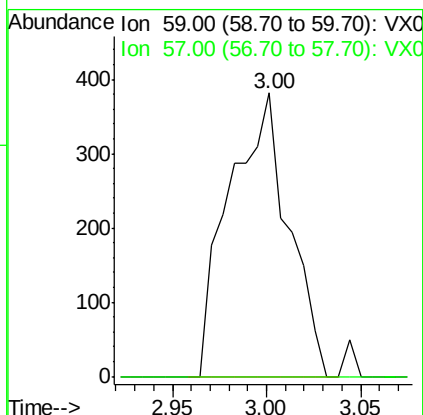
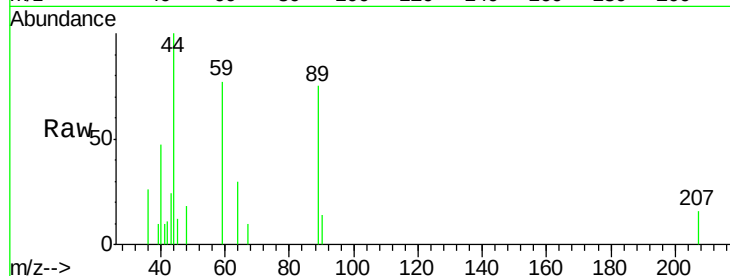


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

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

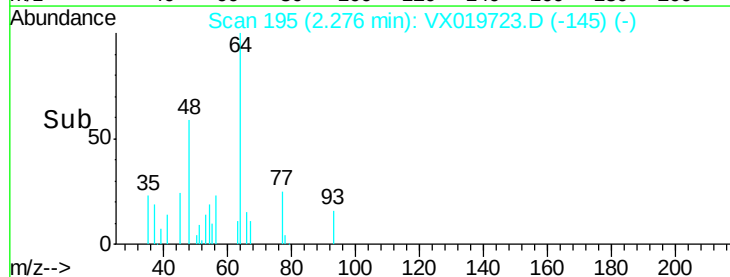
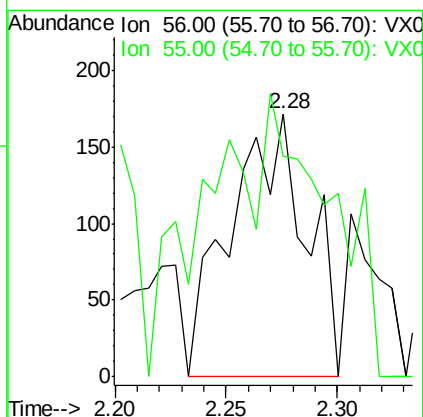
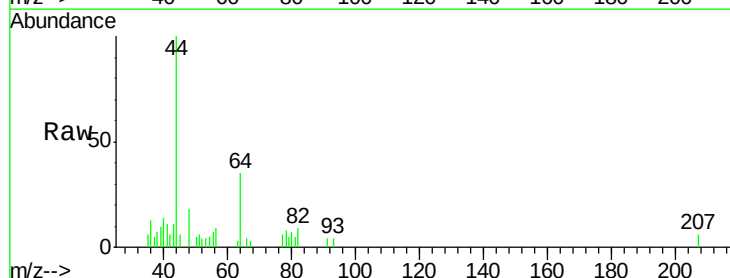
Tot Ion: 59 Resp: 834
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

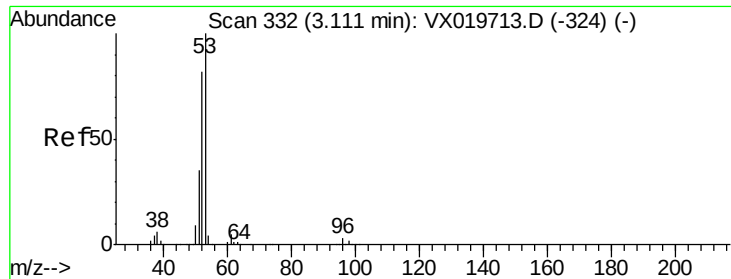


#13

Acrolein
Concen: 0.832 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

Tgt Ion: 56 Resp: 409
Ion Ratio Lower Upper
56 100
55 91.9 56.4 84.6#





#15

Acrylonitrile

Concen: 0.303 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.00 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

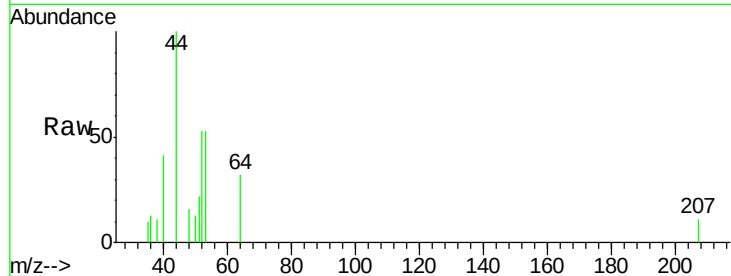
Tot Ion: 53 Resp: 610

Ion Ratio Lower Upper

53 100

52 89.5 65.3 97.9

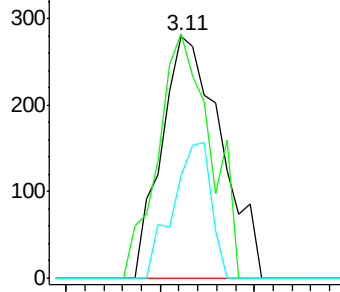
51 36.1 28.2 42.2



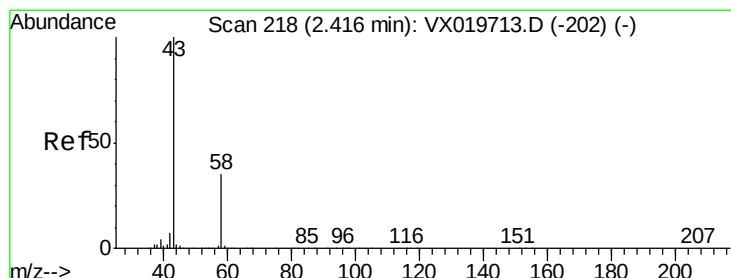
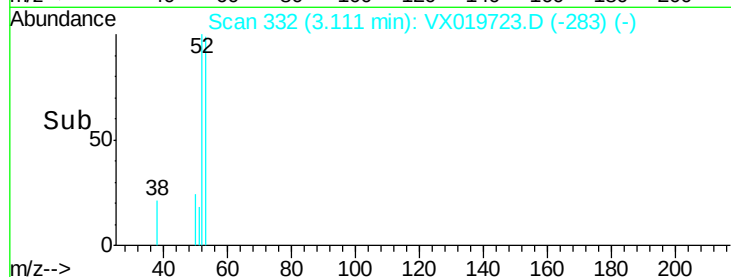
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 0.869 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX019723.D

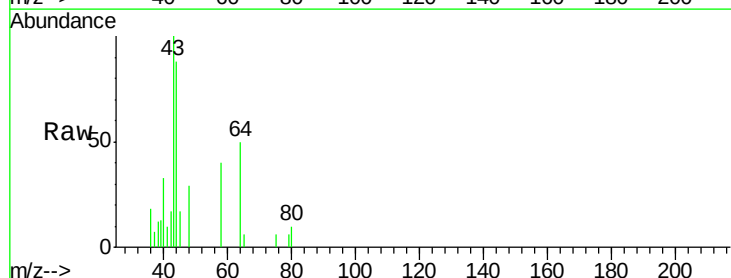
Acq: 04 Dec 2020 17:44

Tgt Ion: 43 Resp: 1456

Ion Ratio Lower Upper

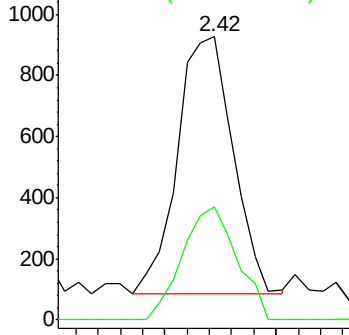
43 100

58 44.2 27.8 41.8#

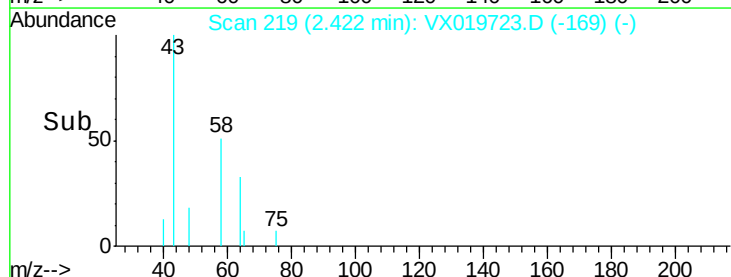


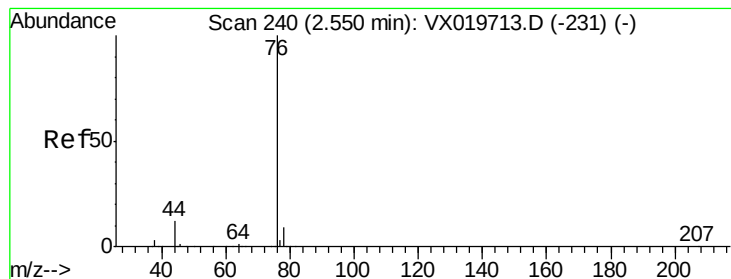
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.343 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

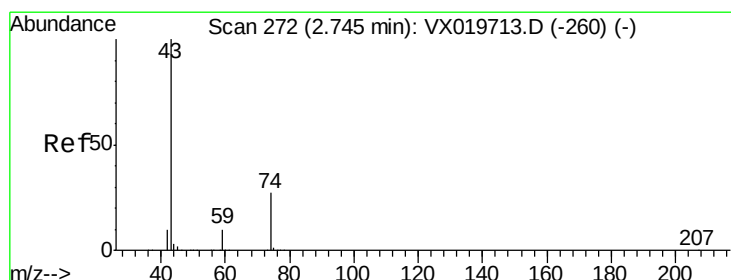
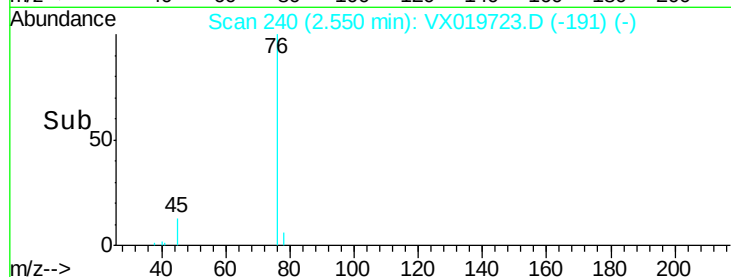
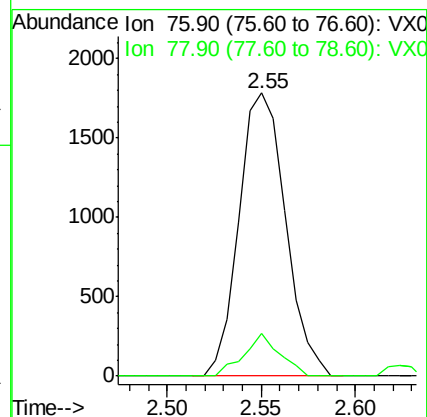
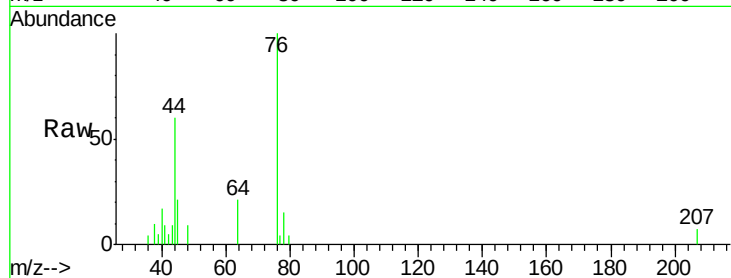
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 76 Resp: 3055

Ion Ratio Lower Upper

76 100

78 14.9 7.2 10.8#



#18

Methyl Acetate

Concen: 0.206 ug/l

RT: 2.74 min Scan# 271

Delta R.T. -0.01 min

Lab File: VX019723.D

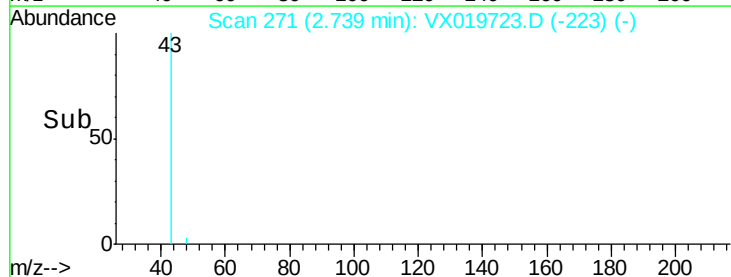
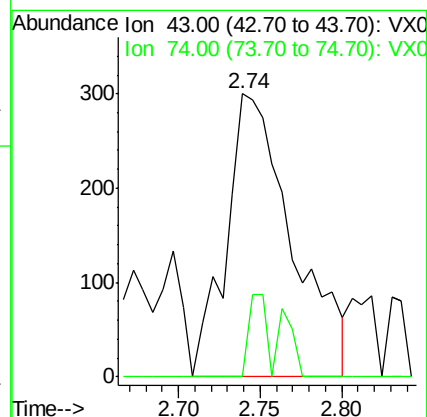
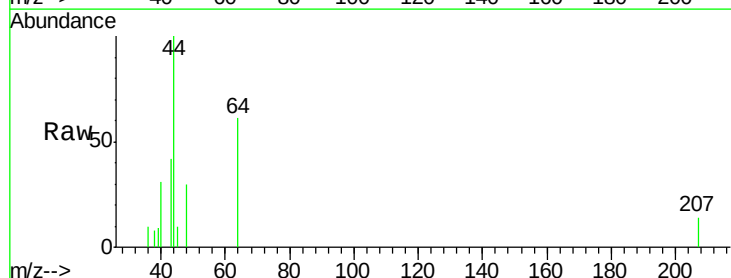
Acq: 04 Dec 2020 17:44

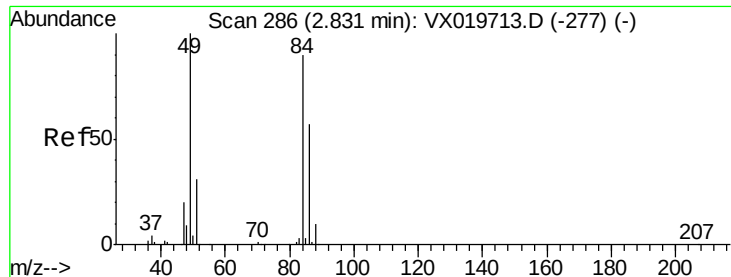
Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

43 100

74 7.6 21.9 32.9#

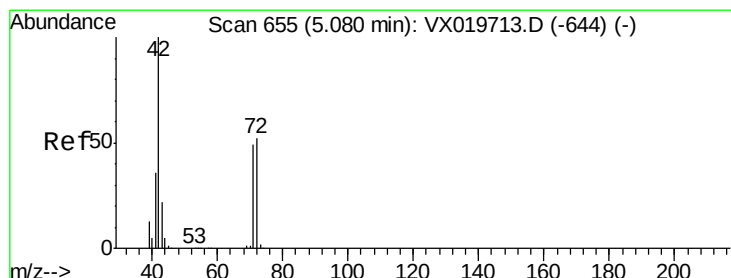
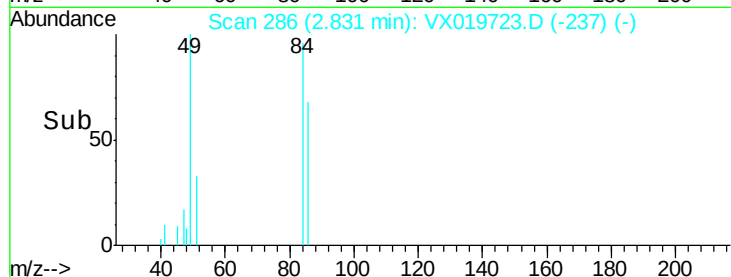
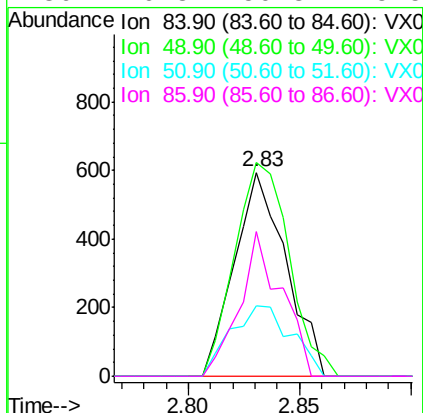
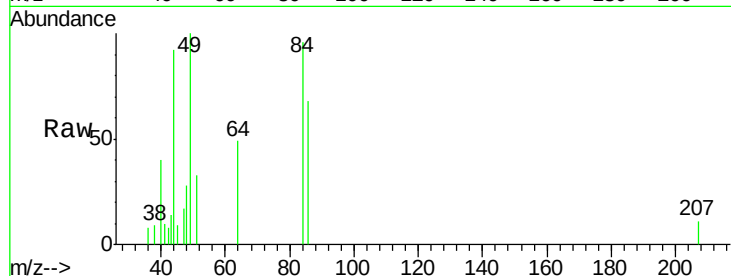




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

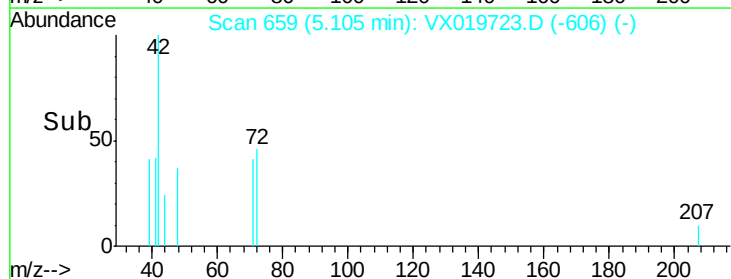
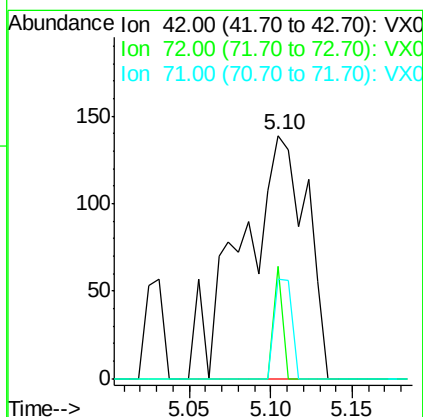
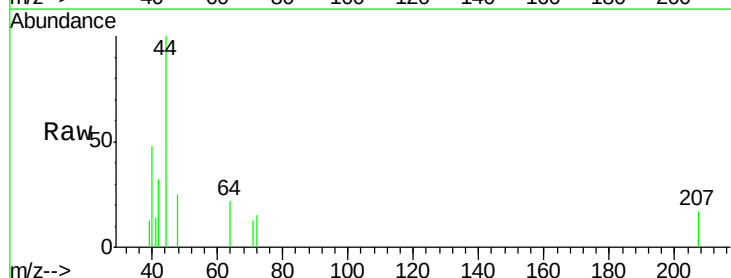
Instrument :
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STORAGE-BLANK-SOIL-REF-6

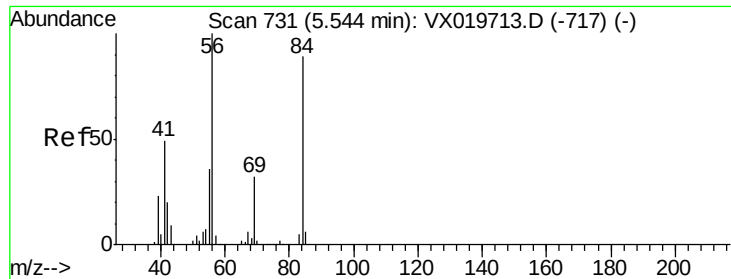
Tot Ion:	84	Resp:	958
Ion	Ratio	Lower	Upper
84	100		
49	104.7	88.6	132.8
51	34.5	27.0	40.6
86	70.8	50.3	75.5



#29
Tetrahydrofuran
Concen: 0.234 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

Tgt Ion:	42	Resp:	388
Ion	Ratio	Lower	Upper
42	100		
72	5.9	41.7	62.5#
71	10.6	38.4	57.6#

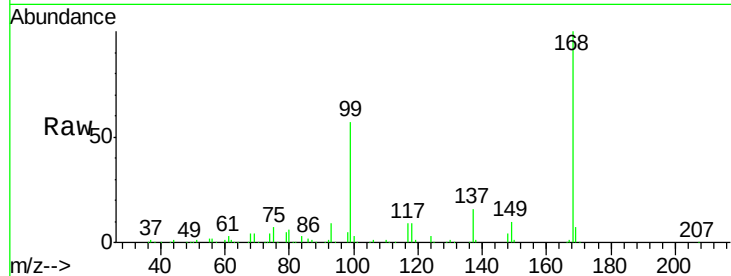




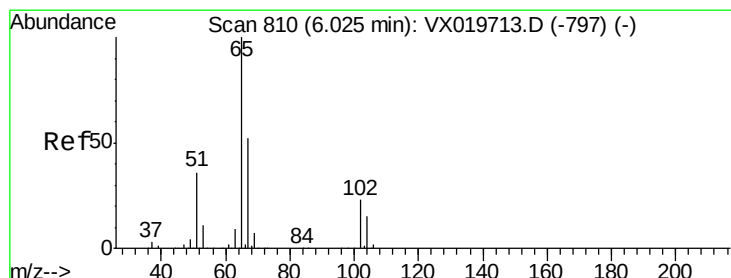
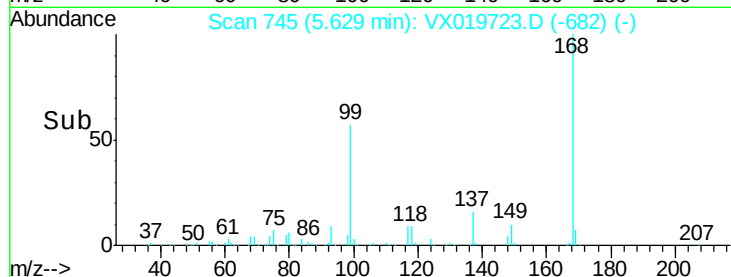
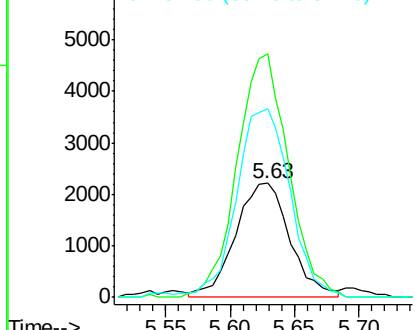
#31
Cyclohexane
Concen: 1.175 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

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

Tot Ion: 56 Resp: 6514
Ion Ratio Lower Upper
56 100
69 219.3 25.3 37.9#
84 169.4 71.4 107.0#

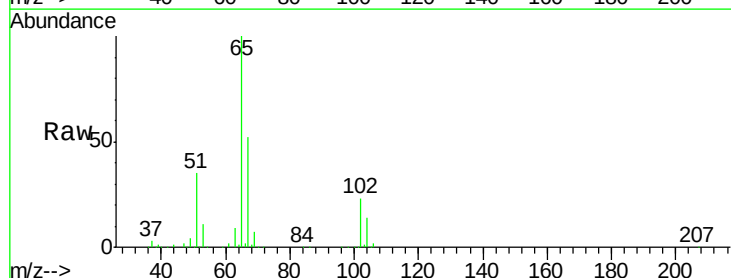


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

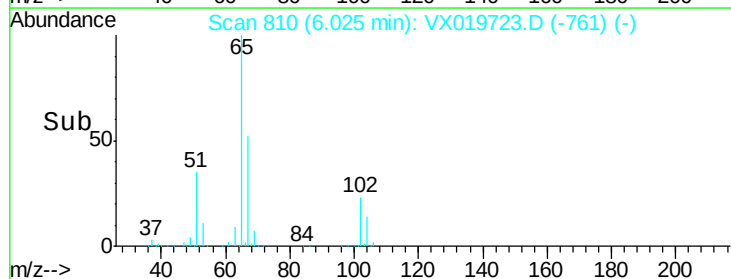
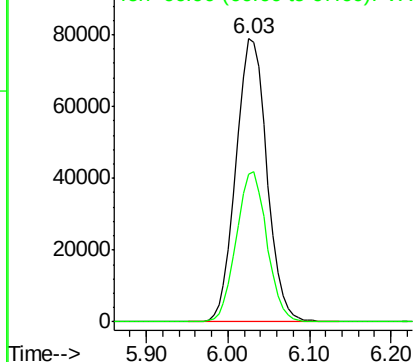


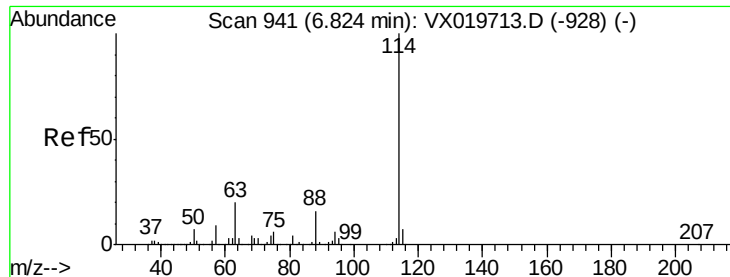
#33
1,2-Dichloroethane-d4
Concen: 46.725 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.00 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

Tgt Ion: 65 Resp: 208177
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

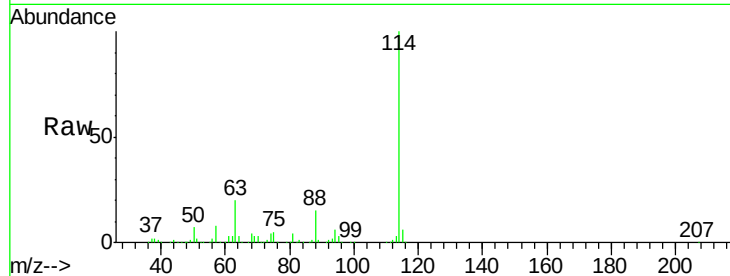
Tot Ion:114 Resp: 563889

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

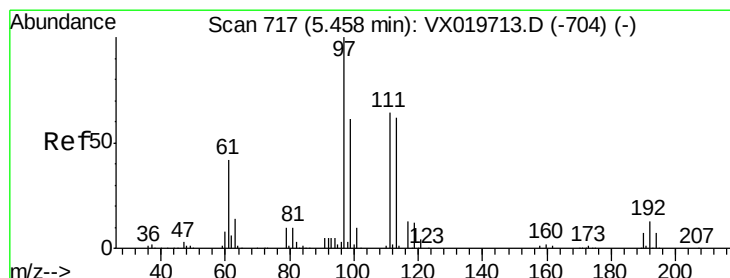
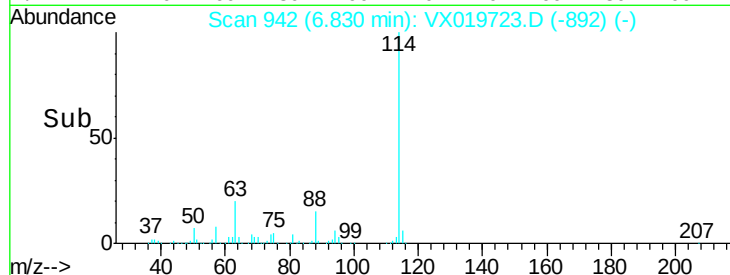
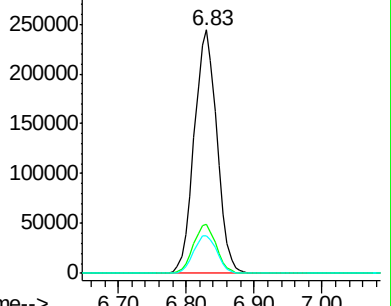
88 15.5 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.732 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

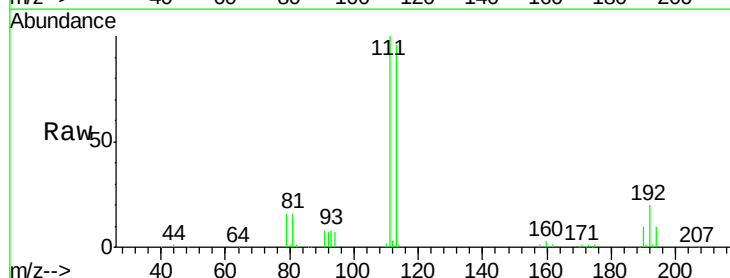
Tgt Ion:113 Resp: 170306

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

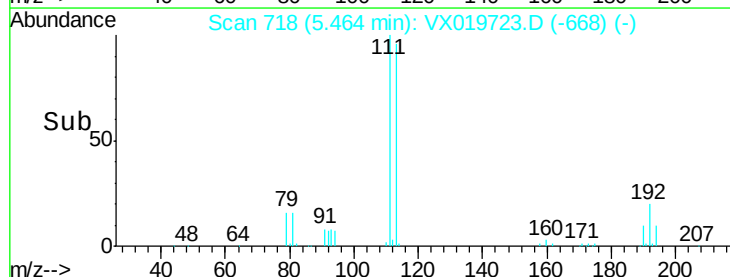
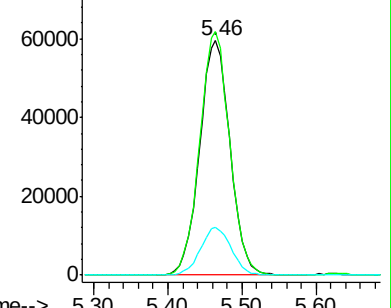
192 20.5 16.7 25.1

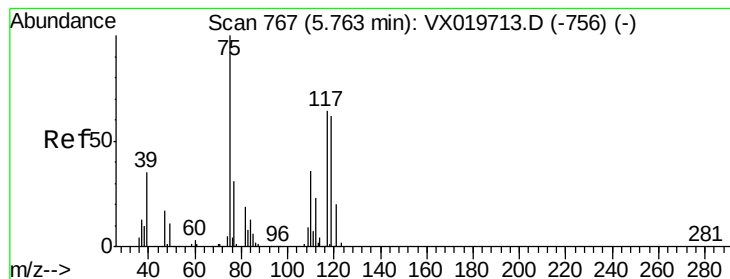


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.909 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

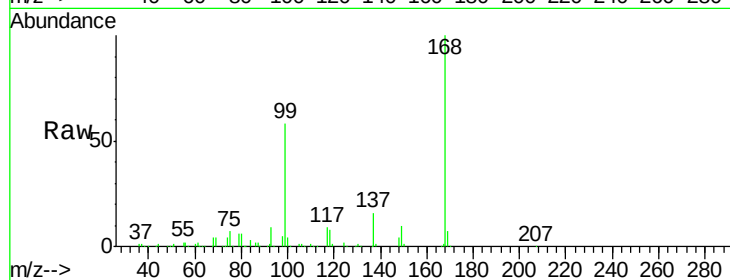
Tot Ion: 75 Resp: 25013

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

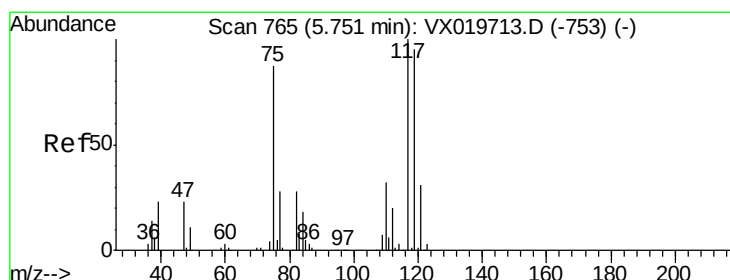
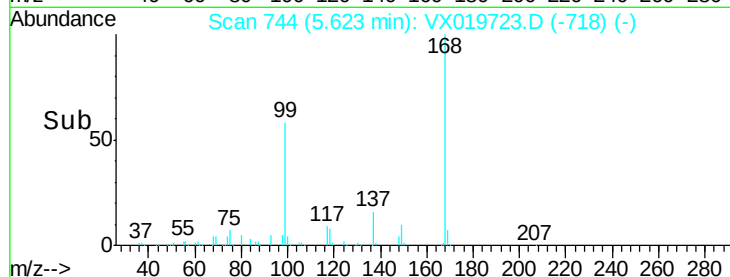
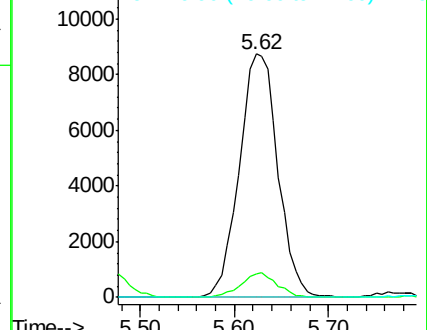
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.555 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

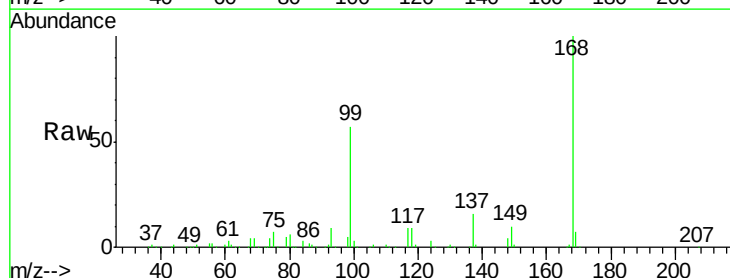
Tgt Ion: 117 Resp: 32709

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

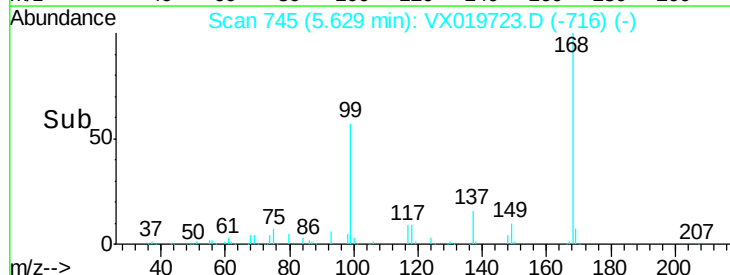
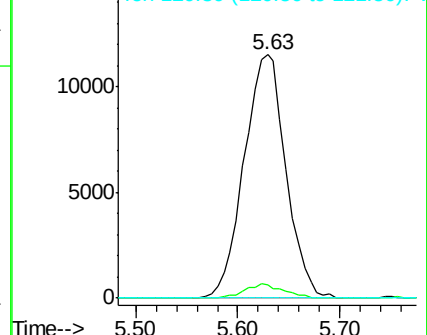
121 0.0 24.8 37.2#

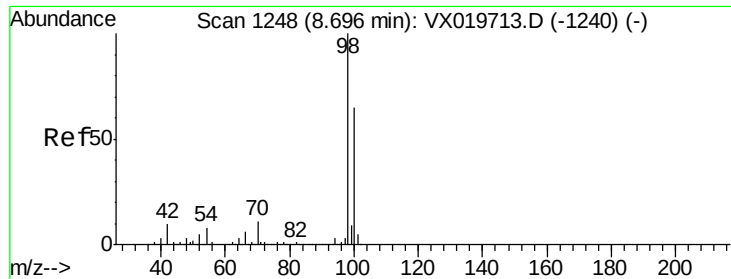


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

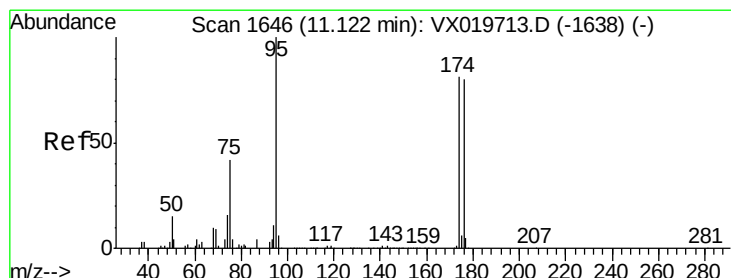
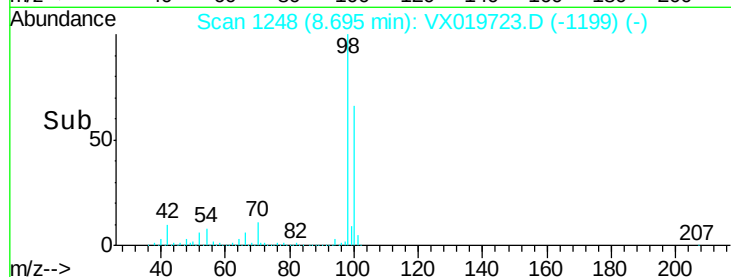
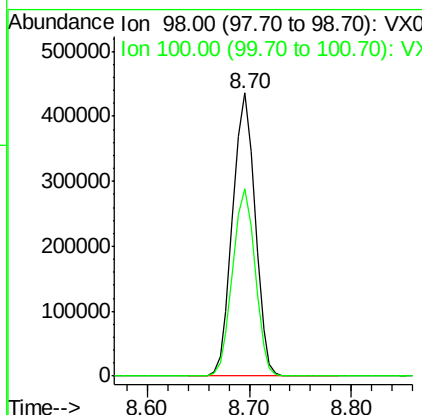
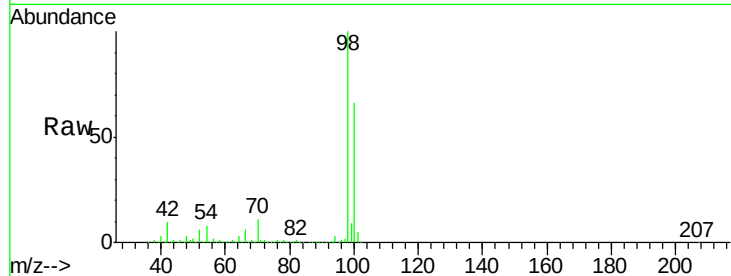




#50
Toluene-d8
Concen: 47.854 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

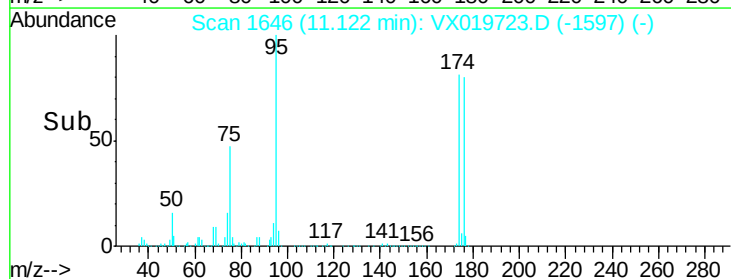
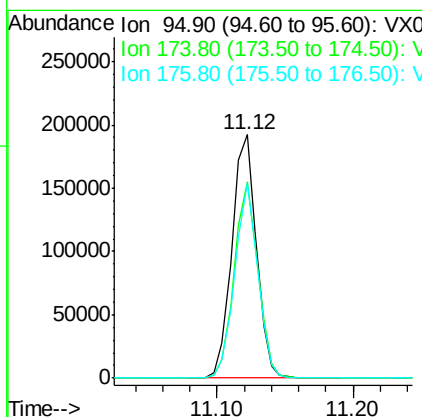
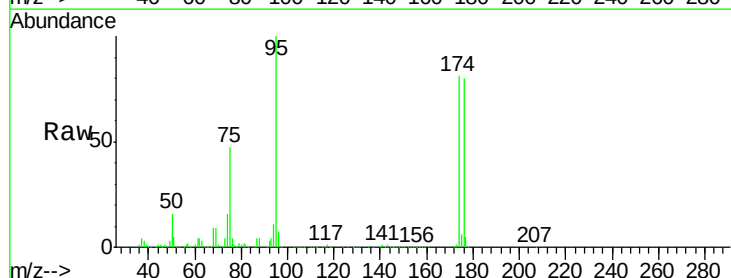
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

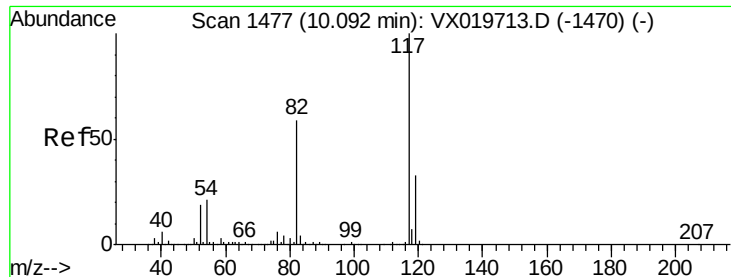
Tot Ion: 98 Resp: 665794
Ion Ratio Lower Upper
98 100
100 66.1 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 45.452 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

Tgt Ion: 95 Resp: 240691
Ion Ratio Lower Upper
95 100
174 78.4 0.0 154.6
176 75.4 0.0 155.8

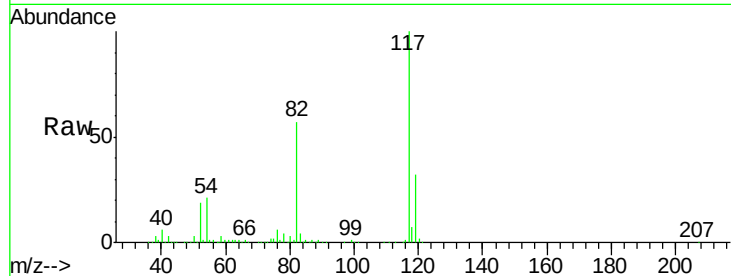




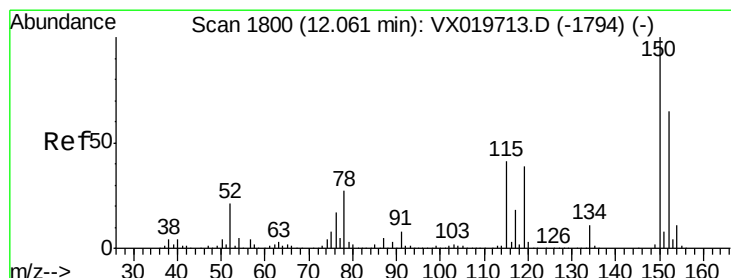
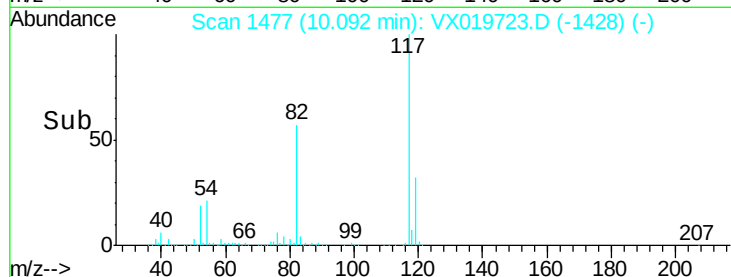
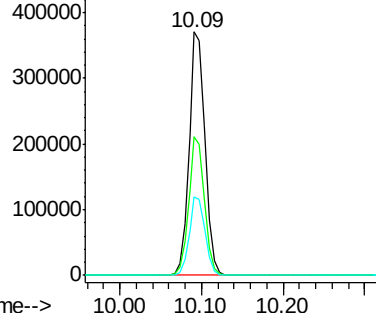
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

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

Tot Ion:117 Resp: 508110
Ion Ratio Lower Upper
117 100
82 57.1 47.4 71.2
119 32.3 26.6 39.8

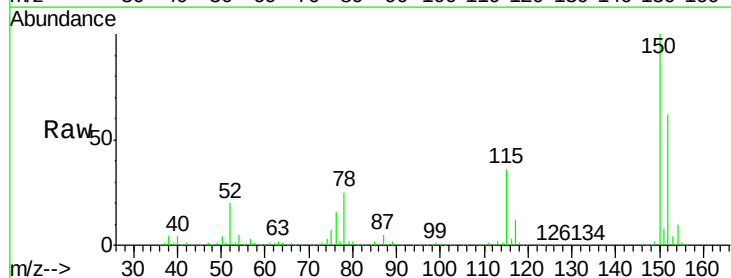


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

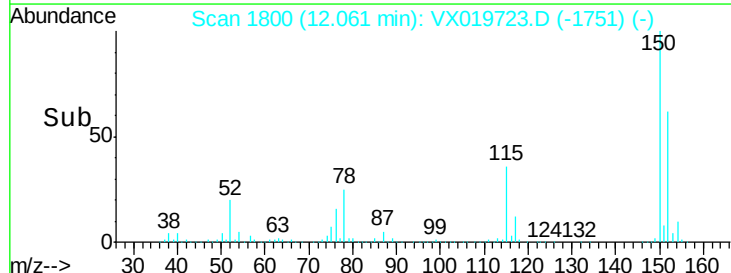
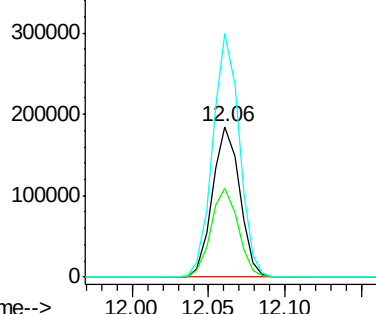


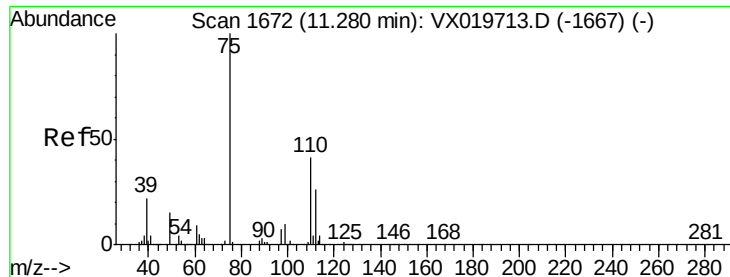
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019723.D
Acq: 04 Dec 2020 17:44

Tgt Ion:152 Resp: 228126
Ion Ratio Lower Upper
152 100
115 59.3 41.1 123.3
150 158.0 0.0 349.0



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: 22.748 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

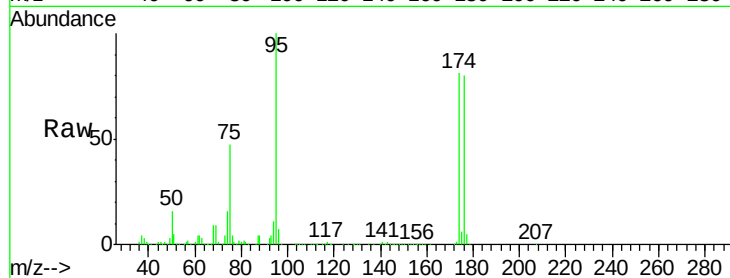
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 116388

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

100000

80000

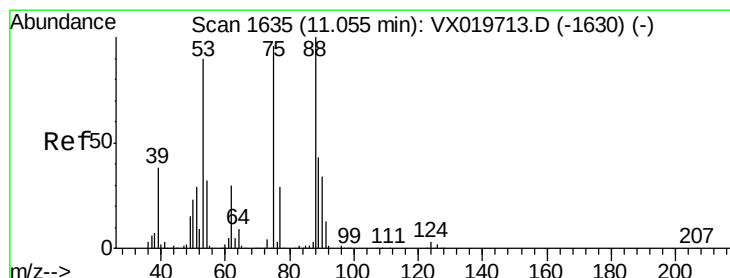
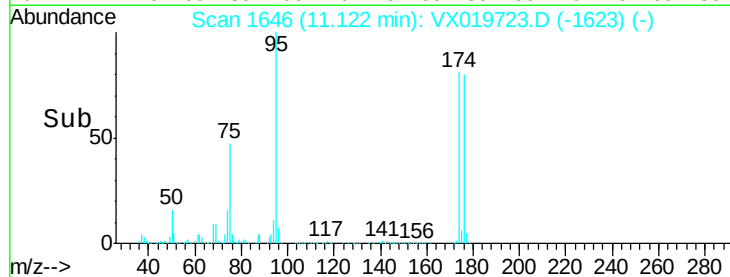
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.759 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

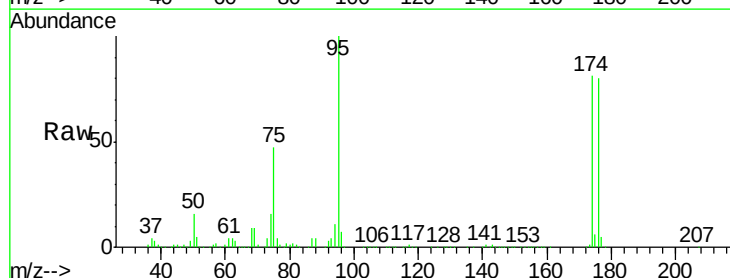
Tgt Ion: 75 Resp: 116388

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

120000

100000

80000

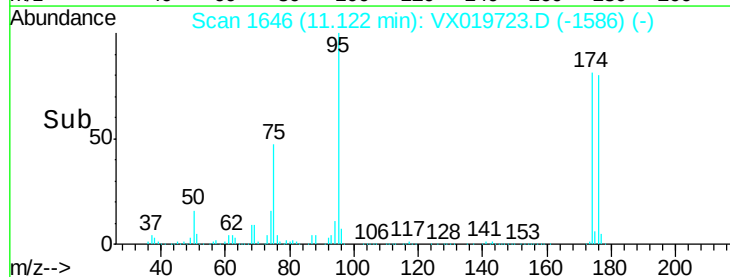
60000

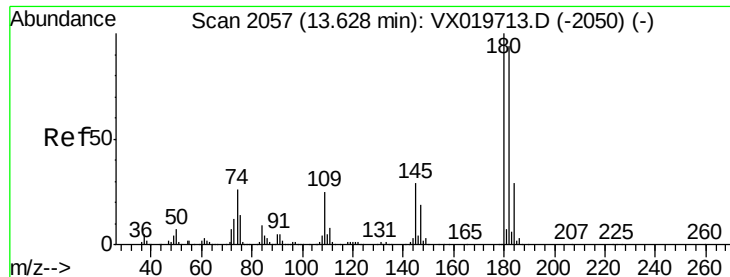
40000

20000

0

Time-->

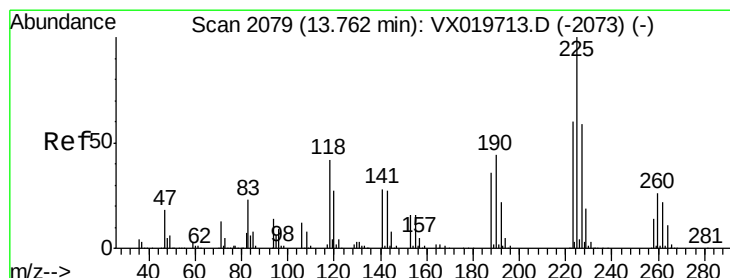
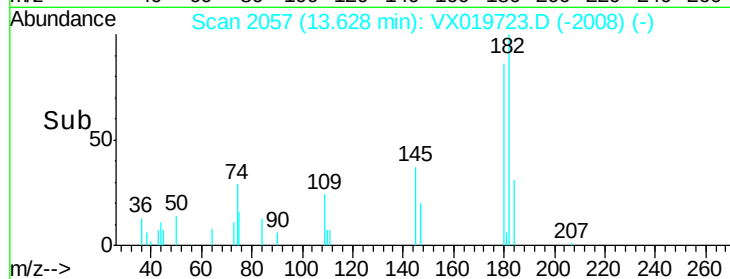
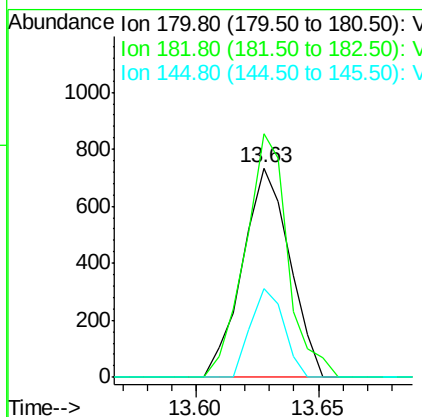
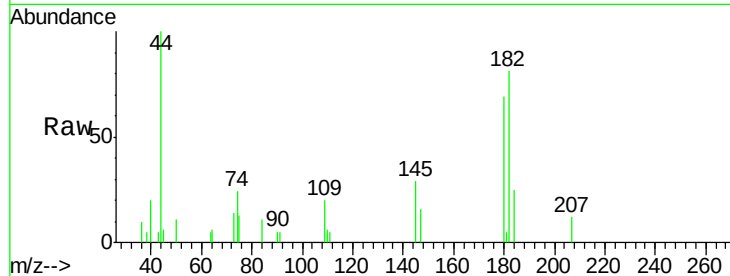




#93
 1,2,4-Trichlorobenzene
 Concen: 0.213 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX019723.D
 Acq: 04 Dec 2020 17:44

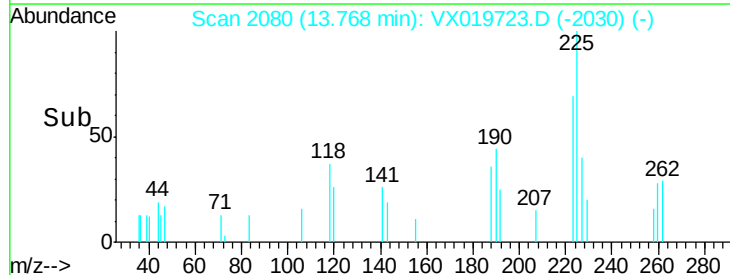
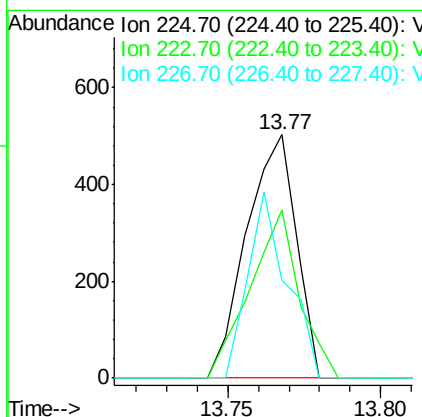
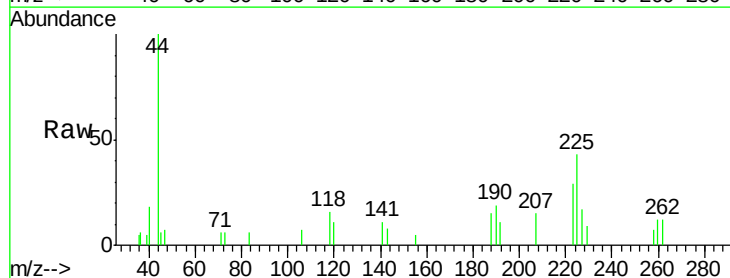
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

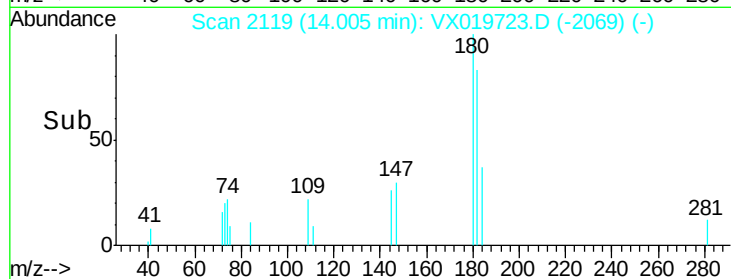
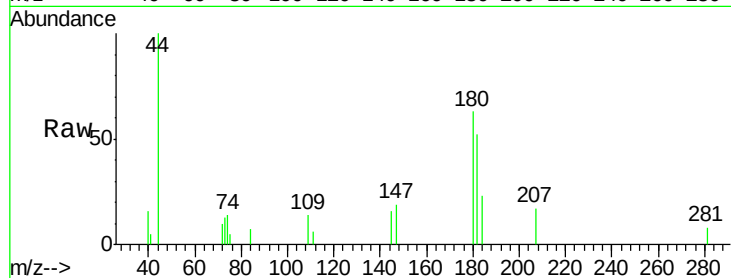
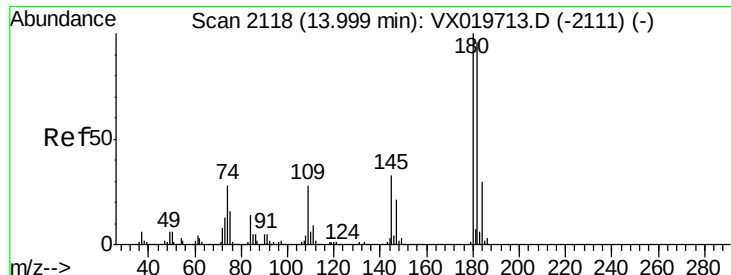
Tot Ion:180 Resp: 990
 Ion Ratio Lower Upper
 180 100
 182 104.9 47.7 143.1
 145 30.0 15.0 45.0



#94
 Hexachlorobutadiene
 Concen: 0.272 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX019723.D
 Acq: 04 Dec 2020 17:44

Tgt Ion:225 Resp: 565
 Ion Ratio Lower Upper
 225 100
 223 68.7 31.1 93.2
 227 60.2 31.6 95.0





#96

1,2,3-Trichlorobenzene

Concen: 0.235 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX019723.D

Acq: 04 Dec 2020 17:44

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tot Ion:180 Resp: 1066

Ion Ratio Lower Upper

180 100

182 81.2 47.6 142.9

145 28.8 16.1 48.3

Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

