

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019498.D
 Acq On : 20 Nov 2020 16:15
 Operator : JC/MD
 Sample : L4837-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

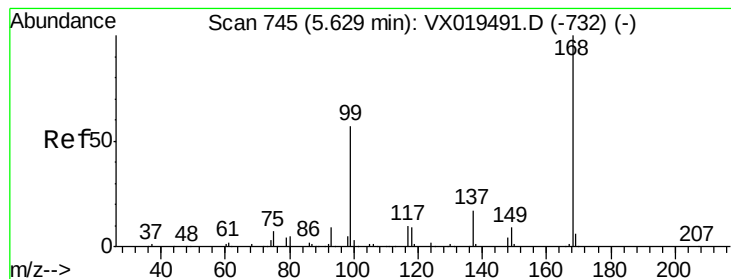
Quant Time: Nov 21 03:46:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	272648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	445026	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	390822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	166605	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	167037	47.25	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.50%	
35) Dibromofluoromethane		5.46	113	133223	47.69	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.38%	
50) Toluene-d8		8.70	98	529397	48.77	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.54%	
62) 4-Bromofluorobenzene		11.12	95	176594	45.22	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1591	0.523	ug/l	97
5) Bromomethane	1.62	94	339	0.273	ug/l	94
6) Chloroethane	1.69	64	116	Below Cal	#	37
10) Methyl Iodide	2.48	142	730	0.211	ug/l #	83
11) Tert butyl alcohol	2.99	59	4701	7.027	ug/l #	74
15) Acrylonitrile	3.12	53	420	0.266	ug/l #	50
16) Acetone	2.43	43	5060	3.701	ug/l	96
17) Carbon Disulfide	2.54	76	3194	0.439	ug/l #	88
18) Methyl Acetate	2.76	43	463	0.771	ug/l	91
20) Methylene Chloride	2.83	84	1636	0.479	ug/l	95
29) Tetrahydrofuran	5.10	42	670	0.511	ug/l #	62
31) Cyclohexane	5.62	56	5959	1.296	ug/l #	2
36) 1,1-Dichloropropene	5.62	75	20990	5.031	ug/l #	51
38) Carbon Tetrachloride	5.62	117	27228	6.742	ug/l #	17
49) 1,4-Dioxane	7.73	88	24	0.343	ug/l #	1
59) 2-Hexanone	9.47	43	593	0.204	ug/l	77
70) Styrene	10.70	104	583	1.707	ug/l #	89
76) 1,2,3-Trichloropropane	11.12	75	87007	23.930	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	87007	63.394	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	823	0.236	ug/l	95
95) Naphthalene	13.82	128	2015	2.335	ug/l	98
96) 1,2,3-Trichlorobenzene	14.01	180	741	0.213	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

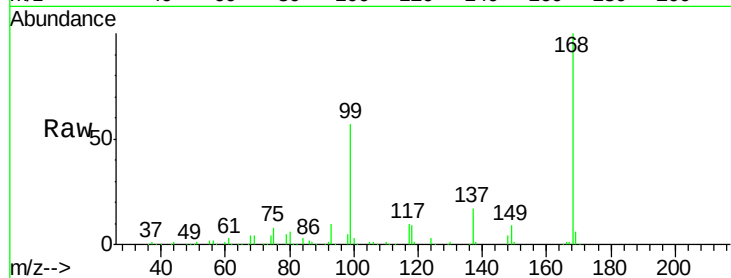
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 272648

Ion Ratio Lower Upper

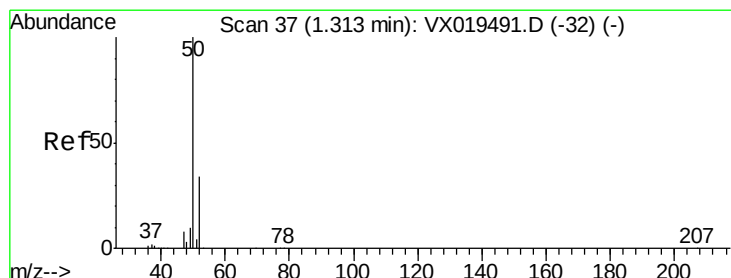
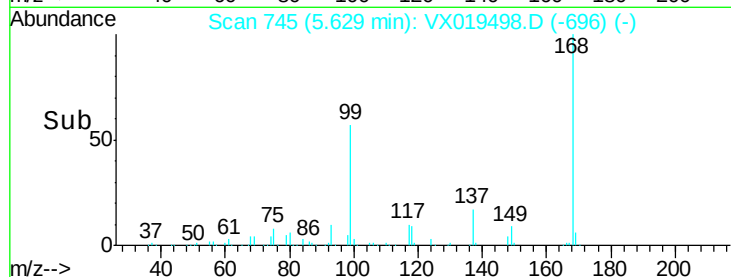
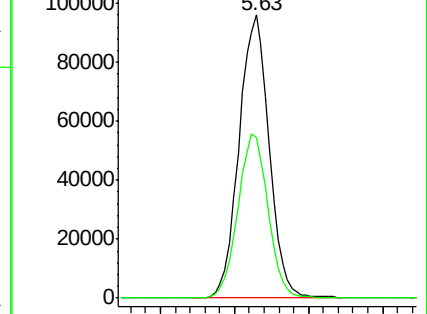
168 100

99 56.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.523 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019498.D

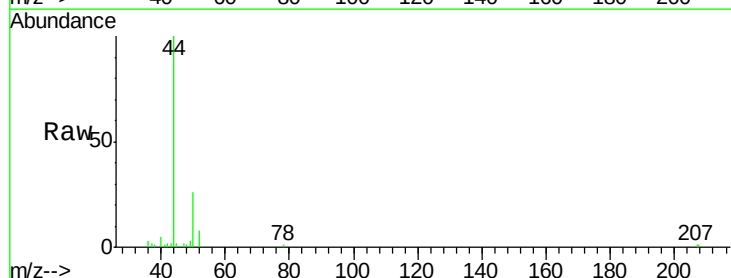
Acq: 20 Nov 2020 16:15

Tgt Ion: 50 Resp: 1591

Ion Ratio Lower Upper

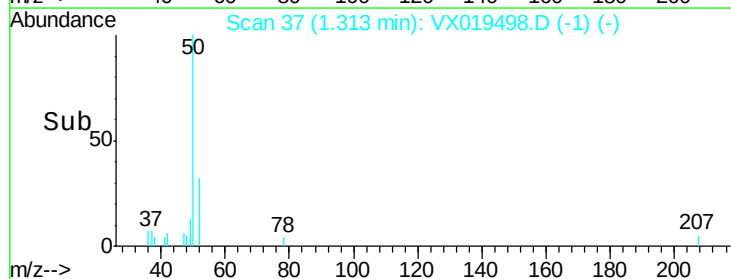
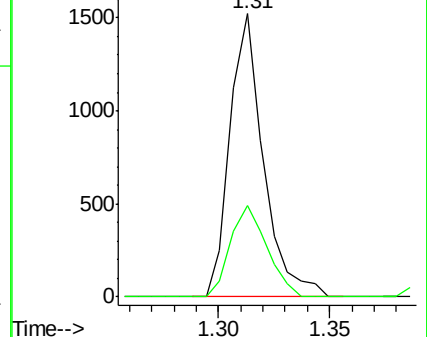
50 100

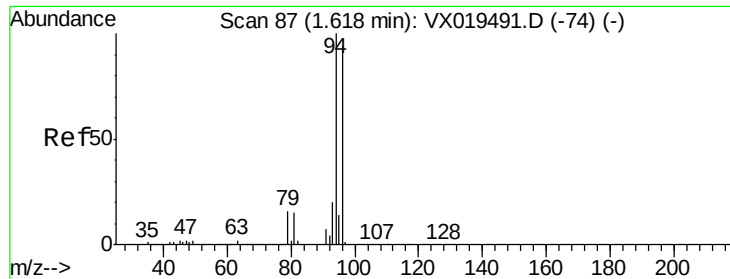
52 32.1 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.273 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

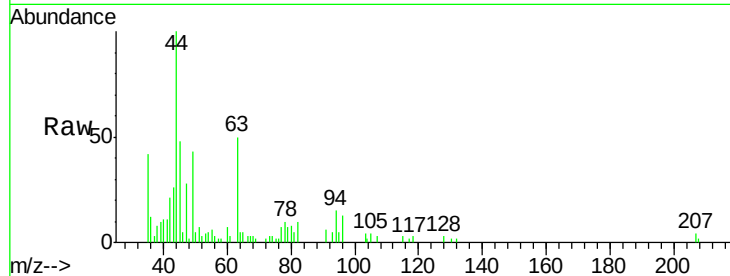
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 94 Resp: 339

Ion Ratio Lower Upper

94 100

96 88.4 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

400

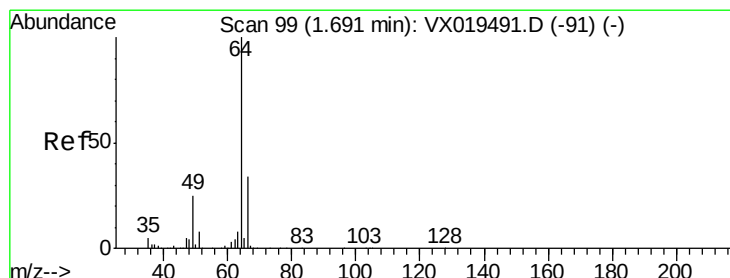
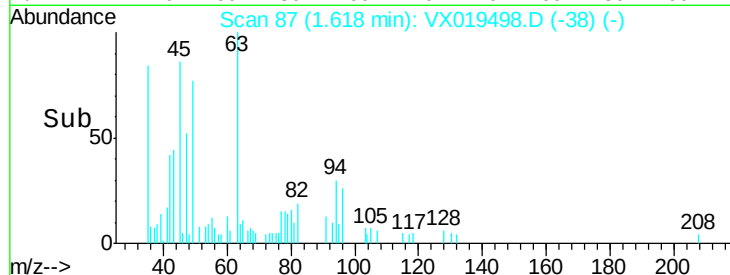
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 99

Delta R.T. 0.00 min

Lab File: VX019498.D

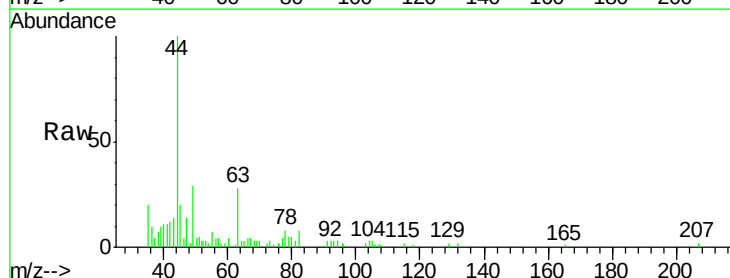
Acq: 20 Nov 2020 16:15

Tgt Ion: 64 Resp: 116

Ion Ratio Lower Upper

64 100

66 69.7 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

200

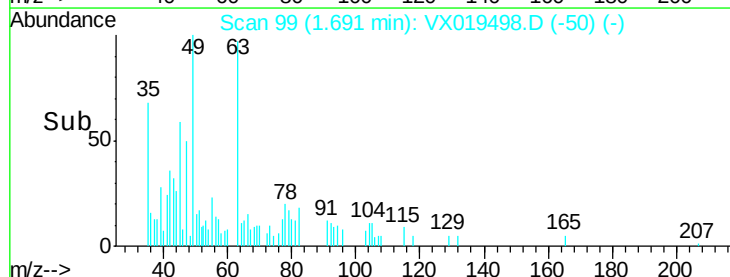
150

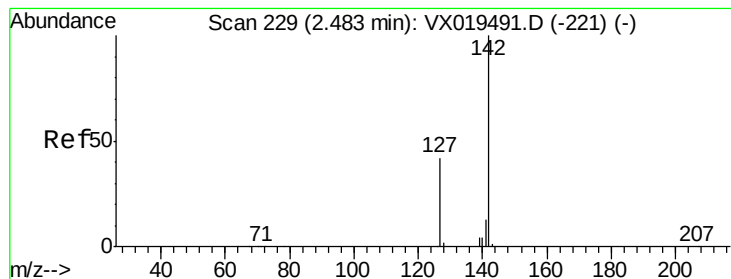
100

50

0

Time-->





#10

Methvl Iodide

Concen: 0.211 ug/l

RT: 2.48 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

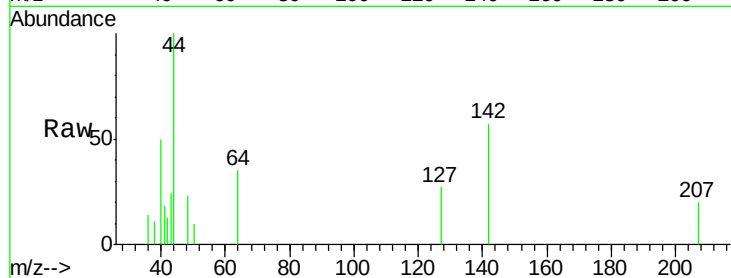
Tot Ion:142 Resp: 730

Ion Ratio Lower Upper

142 100

127 34.9 33.8 50.6

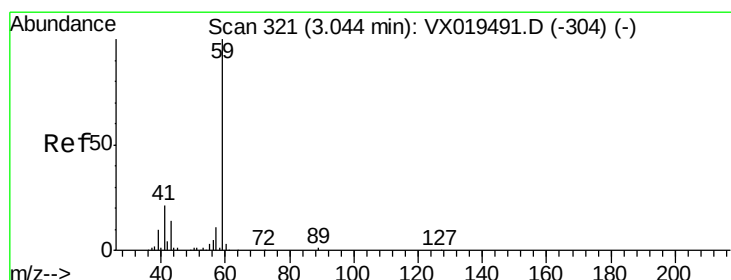
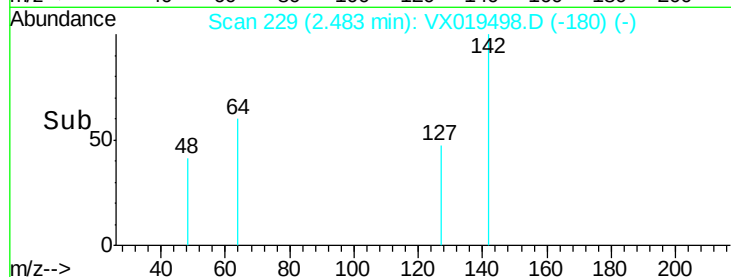
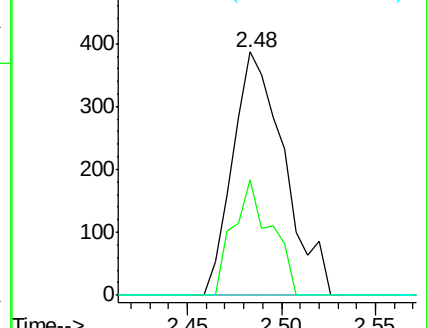
141 0.0 11.0 16.6#



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



#11

Tert butyl alcohol

Concen: 7.027 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019498.D

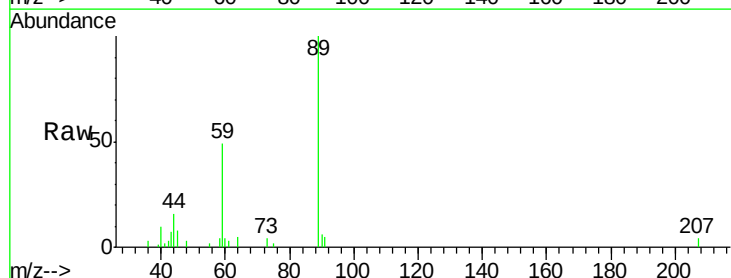
Acq: 20 Nov 2020 16:15

Tgt Ion: 59 Resp: 4701

Ion Ratio Lower Upper

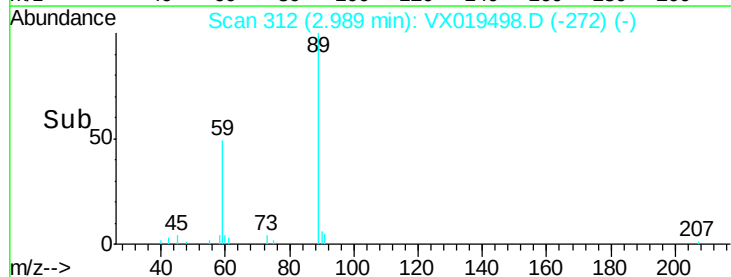
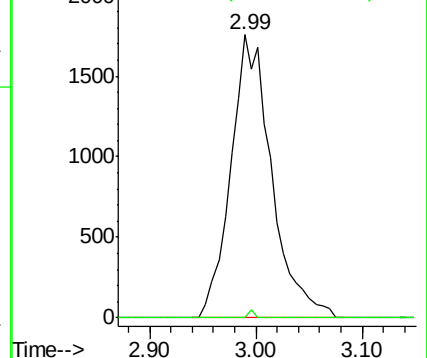
59 100

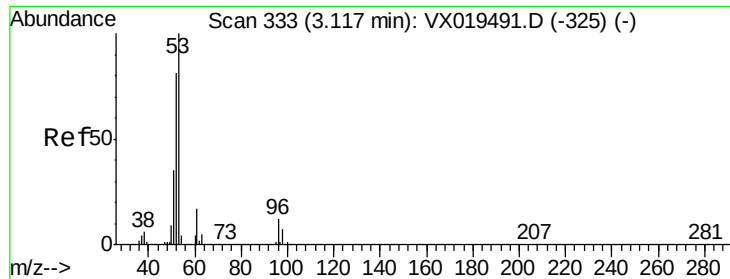
57 0.4 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#15

Acrylonitrile

Concen: 0.266 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

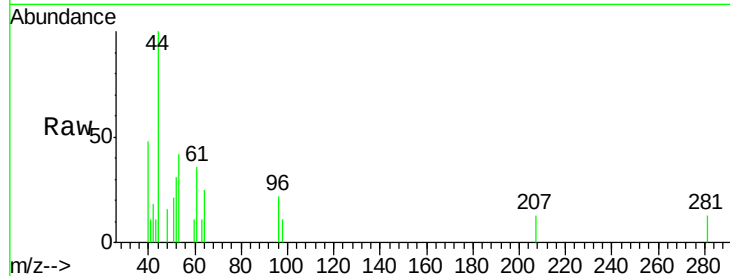
Tot Ion: 53 Resp: 420

Ion Ratio Lower Upper

53 100

52 125.0 66.2 99.2#

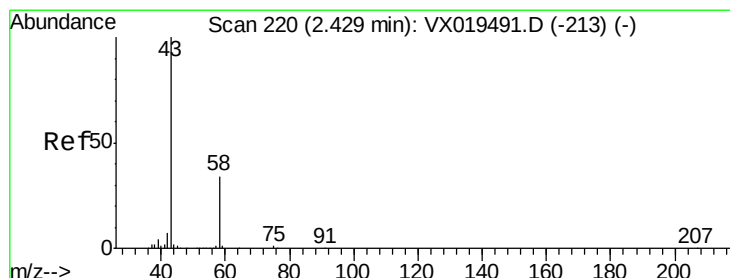
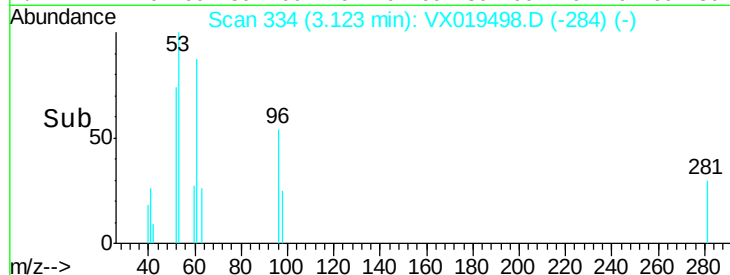
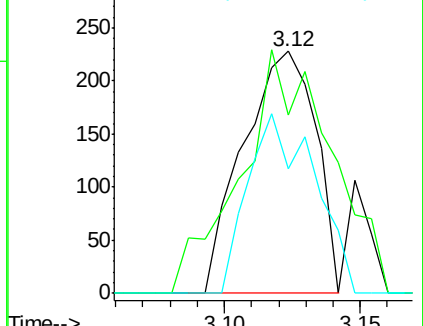
51 68.1 28.5 42.7#



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



#16

Acetone

Concen: 3.701 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.00 min

Lab File: VX019498.D

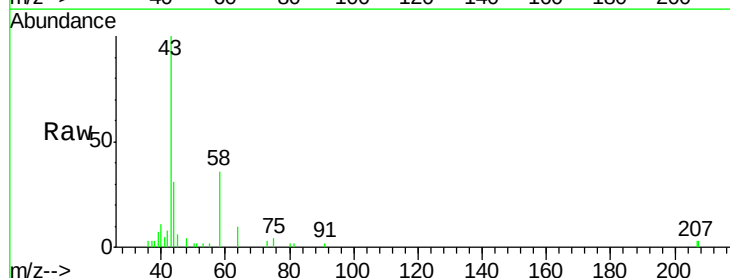
Acq: 20 Nov 2020 16:15

Tgt Ion: 43 Resp: 5060

Ion Ratio Lower Upper

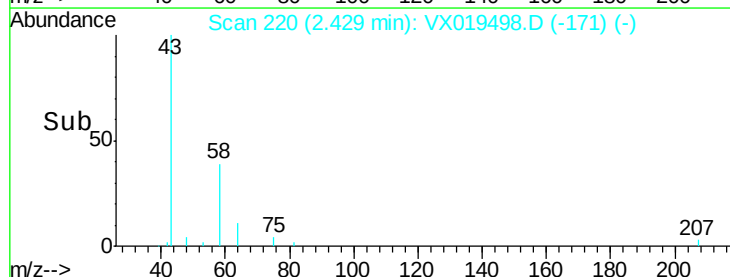
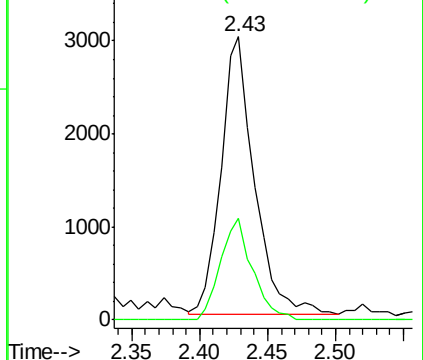
43 100

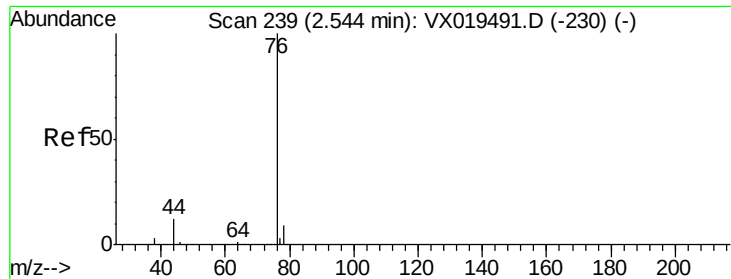
58 36.5 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.439 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

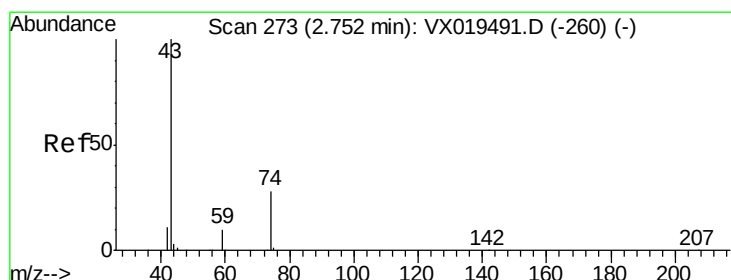
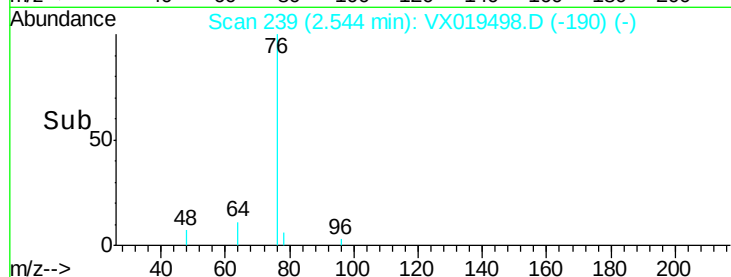
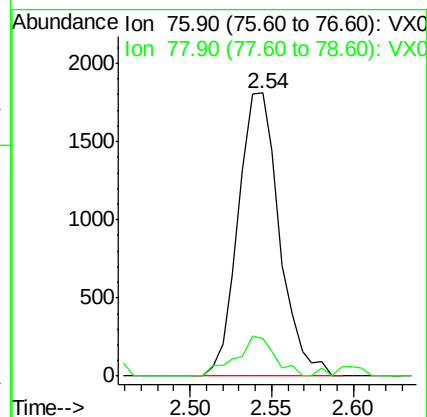
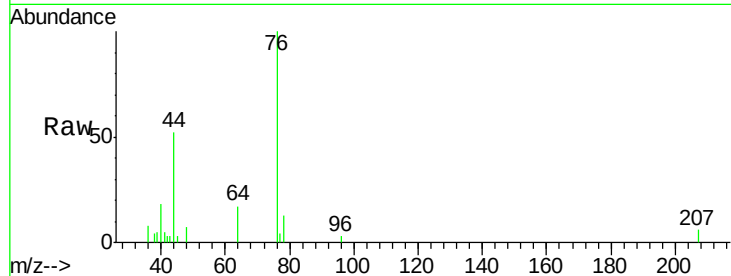
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 76 Resp: 3194

Ion Ratio Lower Upper

76 100

78 13.2 7.2 10.8#



#18

Methyl Acetate

Concen: 0.771 ug/l

RT: 2.76 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX019498.D

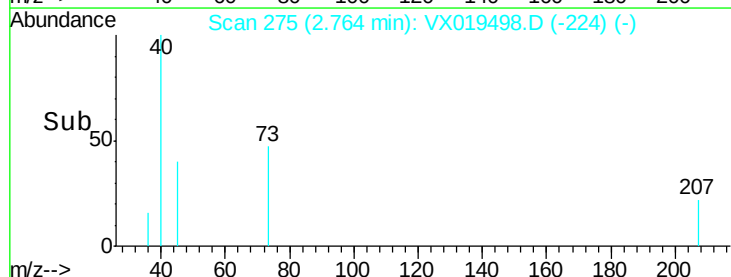
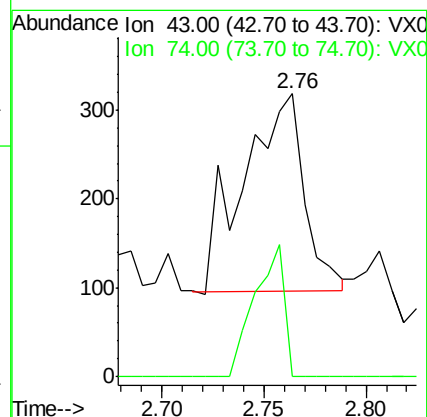
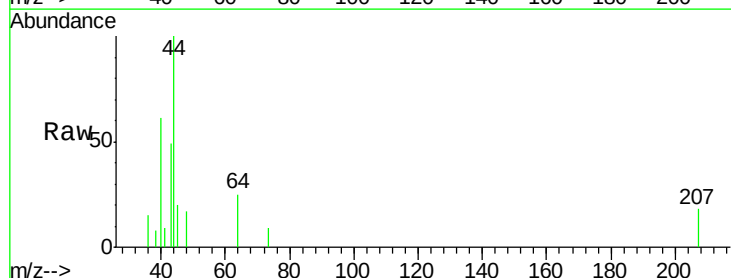
Acq: 20 Nov 2020 16:15

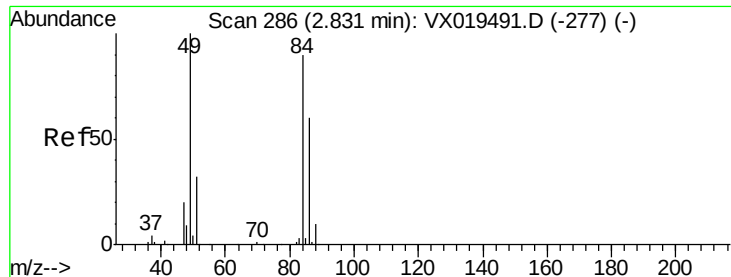
Tgt Ion: 43 Resp: 463

Ion Ratio Lower Upper

43 100

74 32.4 22.2 33.4

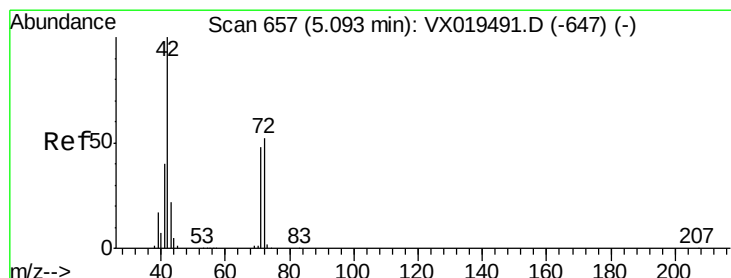
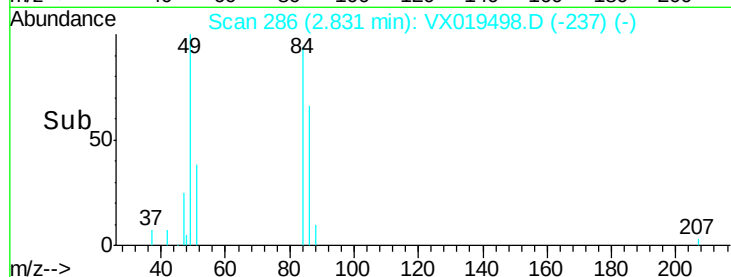
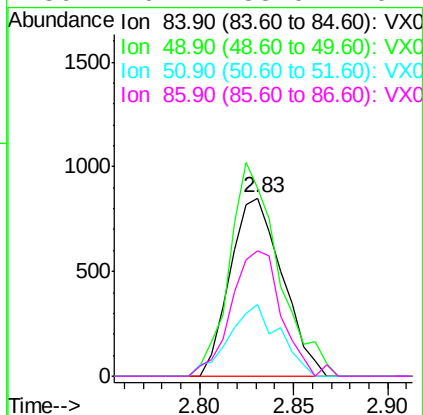
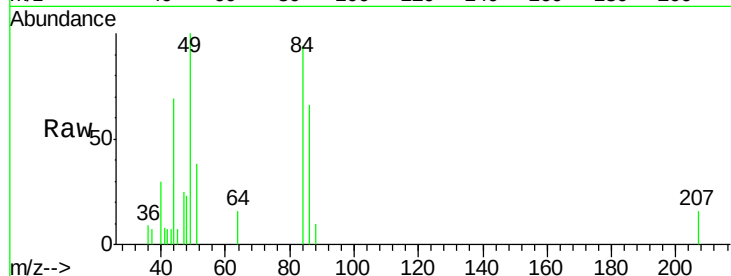




#20
Methvlene Chloride
Concen: 0.479 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

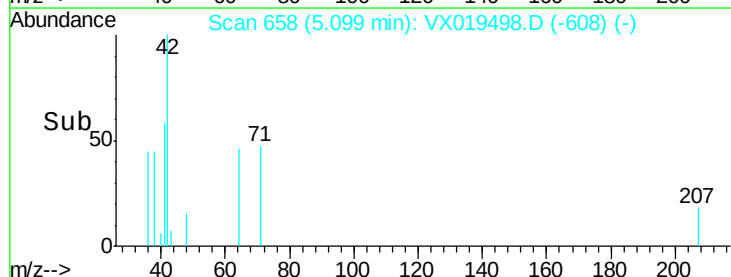
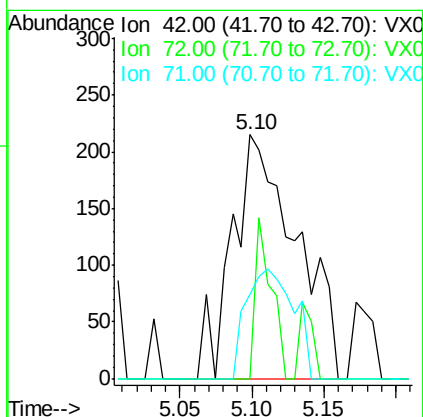
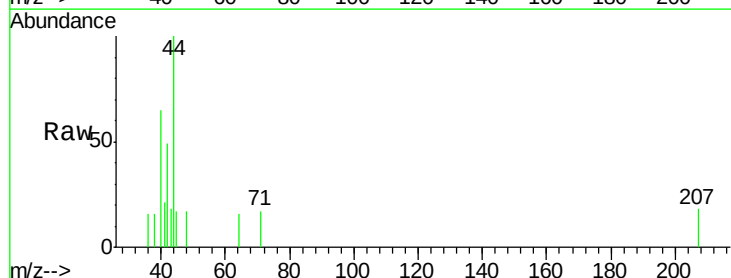
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

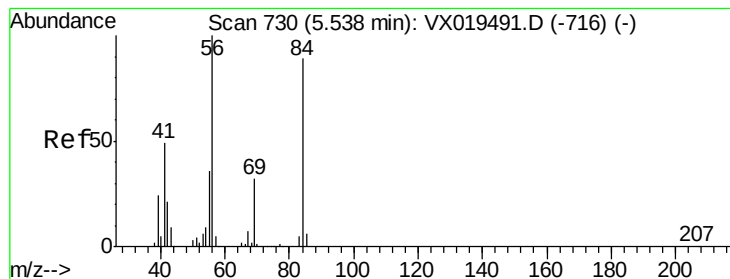
Tot Ion:	84	Resp:	1636
Ion	Ratio	Lower	Upper
84	100		
49	105.9	88.5	132.7
51	40.5	28.0	42.0
86	70.1	53.0	79.4



#29
Tetrahydrofuran
Concen: 0.511 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

Tgt Ion:	42	Resp:	670
Ion	Ratio	Lower	Upper
42	100		
72	16.3	42.6	63.8#
71	33.3	39.0	58.6#





#31

Cyclohexane

Concen: 1.296 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.09 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

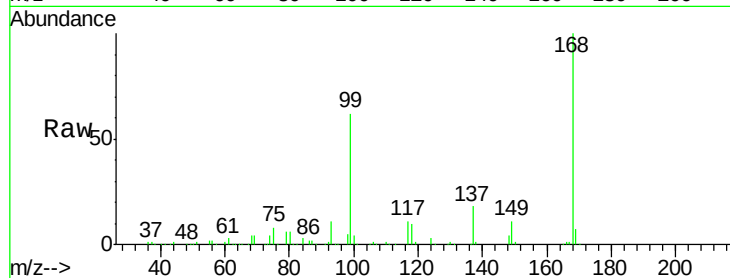
Tot Ion: 56 Resp: 5959

Ion Ratio Lower Upper

56 100

69 163.1 25.5 38.3#

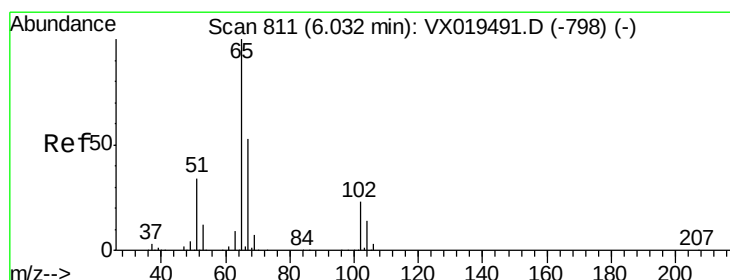
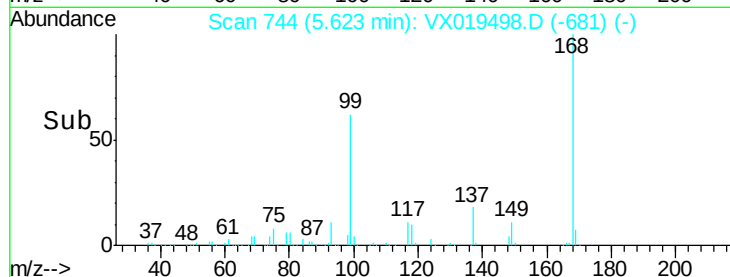
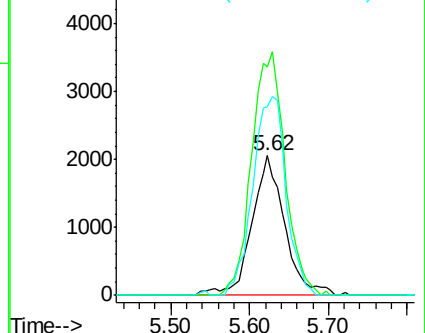
84 134.8 71.1 106.7#



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: 47.251 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019498.D

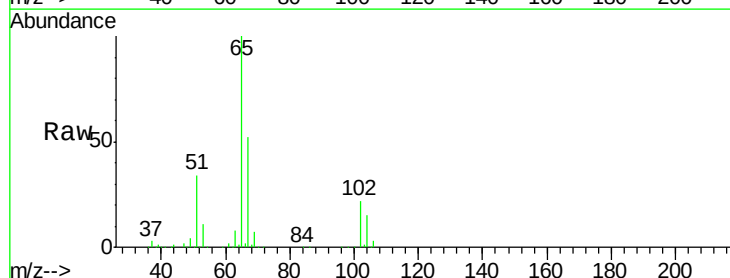
Acq: 20 Nov 2020 16:15

Tgt Ion: 65 Resp: 167037

Ion Ratio Lower Upper

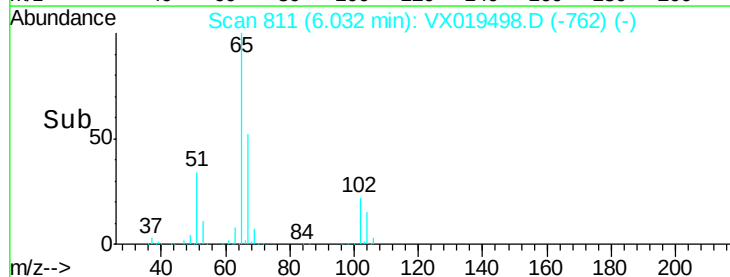
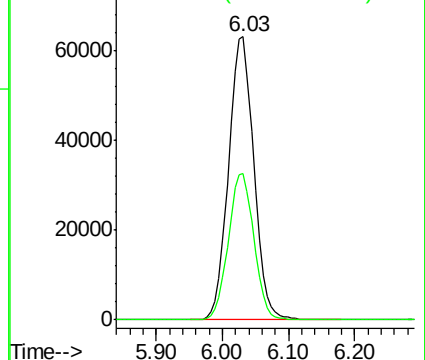
65 100

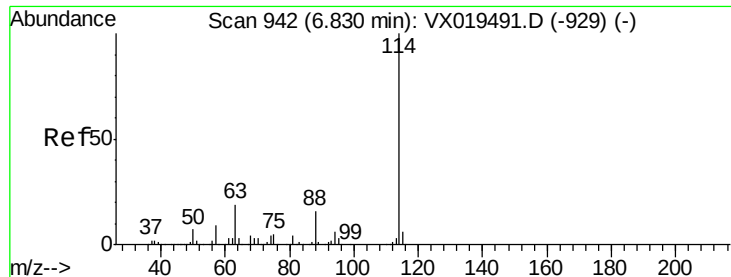
67 52.5 0.0 105.0



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. 0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

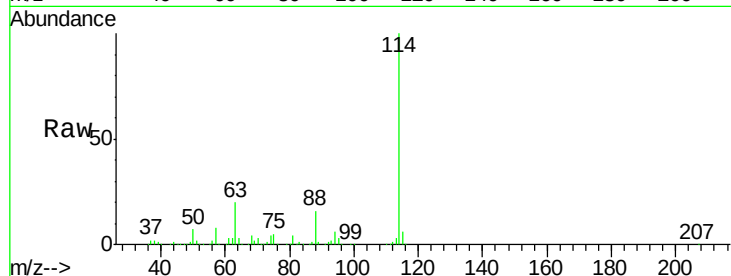
Tot Ion:114 Resp: 445026

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.8

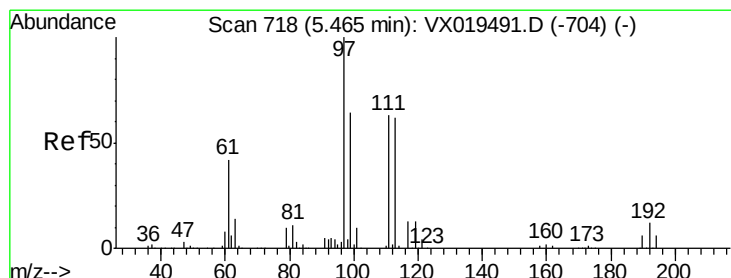
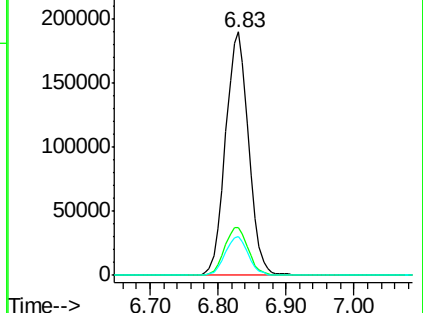
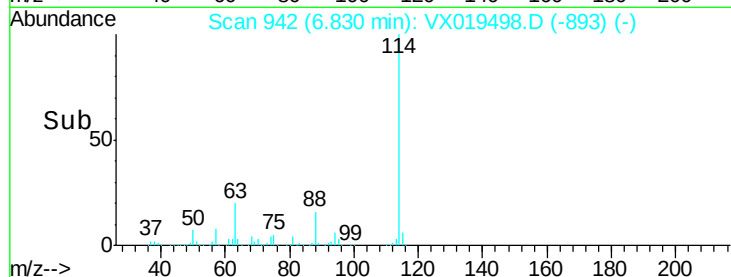
88 16.1 0.0 31.6



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: 47.692 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

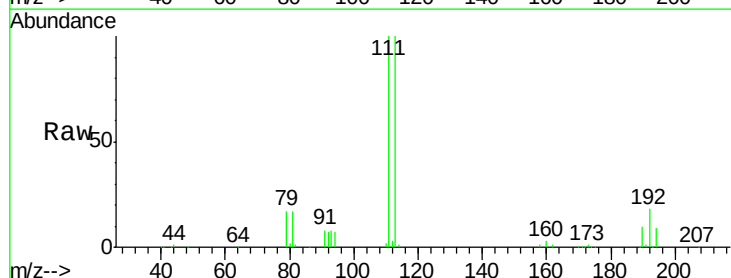
Tgt Ion:113 Resp: 133223

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

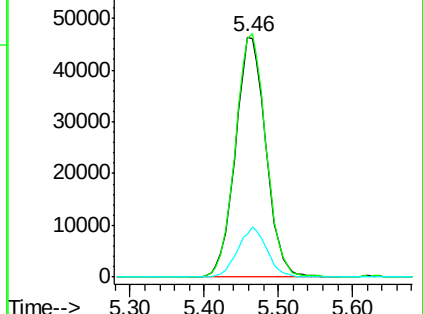
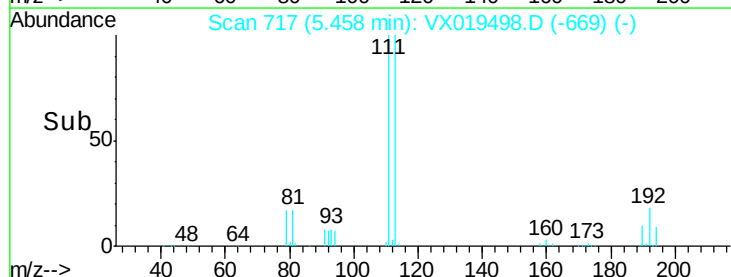
192 20.0 16.2 24.2

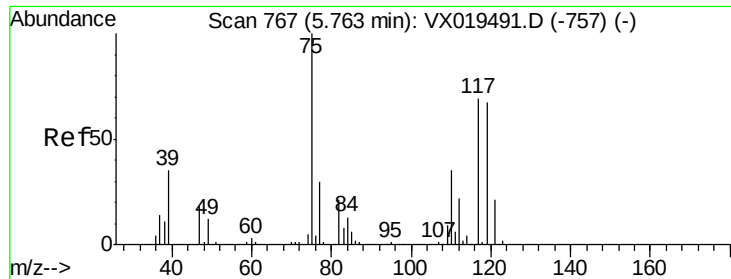


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

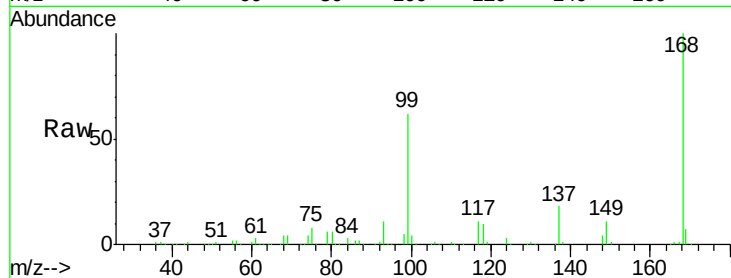




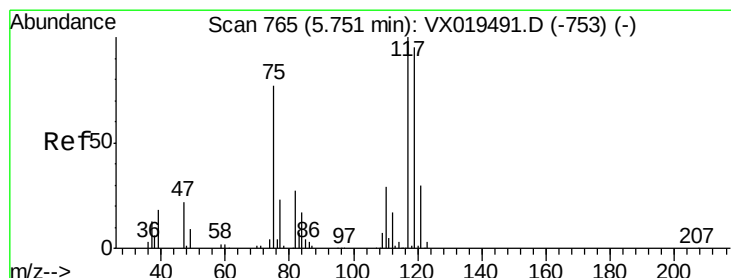
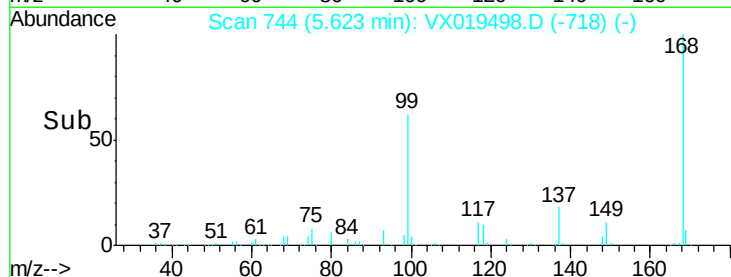
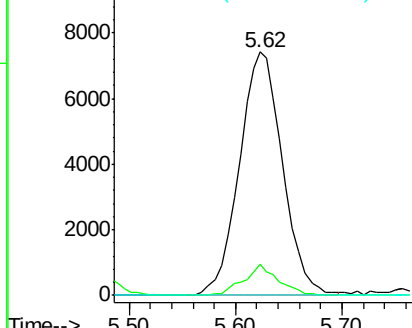
#36
 1,1-Dichloropropene
 Concen: 5.031 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019498.D
 Acq: 20 Nov 2020 16:15

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

Tot Ion: 75 Resp: 20990
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.3#
 77 0.0 24.2 36.4#

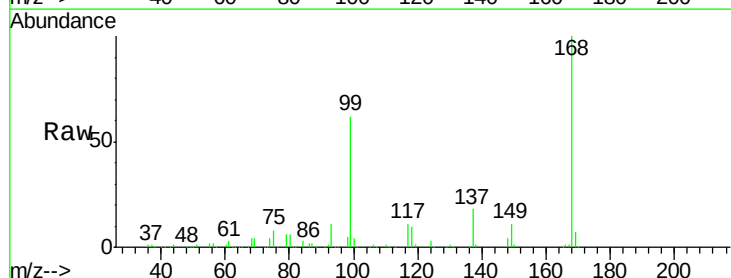


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

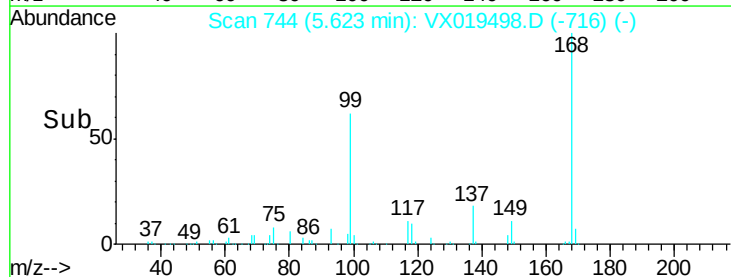
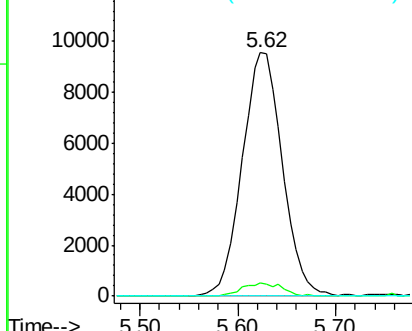


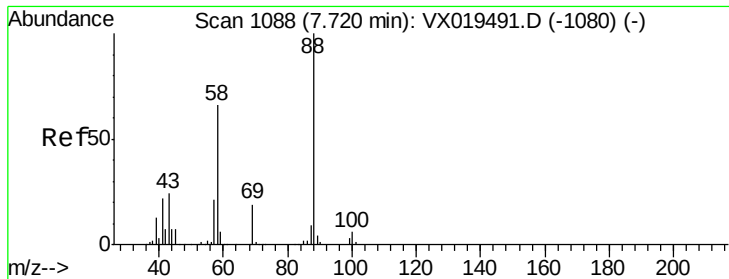
#38
 Carbon Tetrachloride
 Concen: 6.742 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019498.D
 Acq: 20 Nov 2020 16:15

Tgt Ion: 117 Resp: 27228
 Ion Ratio Lower Upper
 117 100
 119 5.3 75.9 113.9#
 121 0.0 24.0 36.0#



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

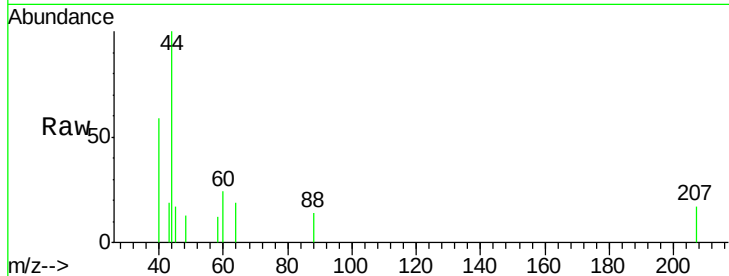




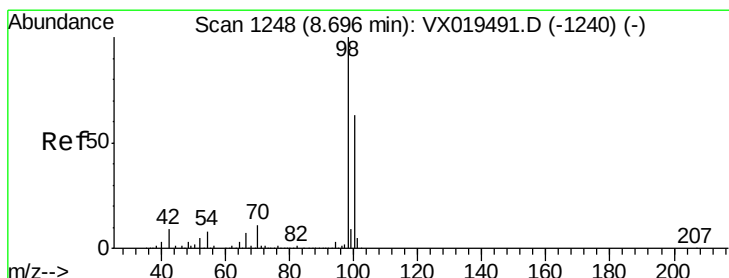
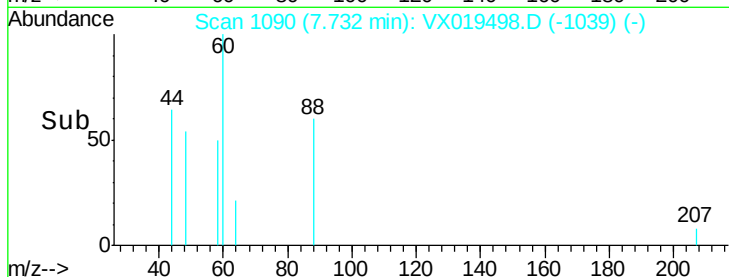
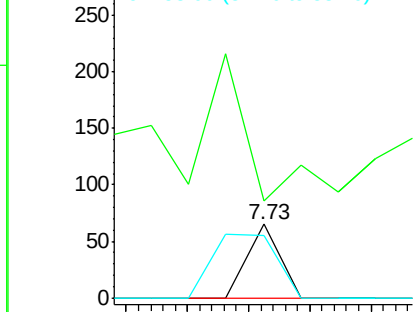
#49
1,4-Dioxane
Concen: 0.343 ug/l
RT: 7.73 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

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

Tot Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.6#
58 170.8 54.2 81.2#

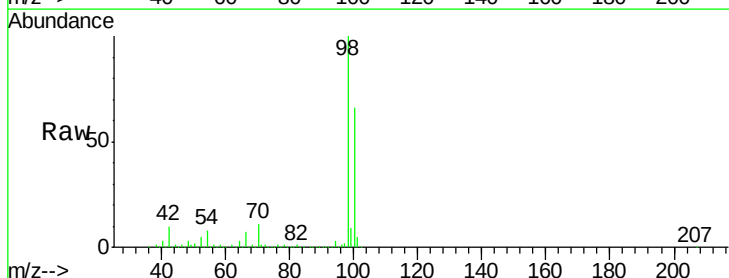


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

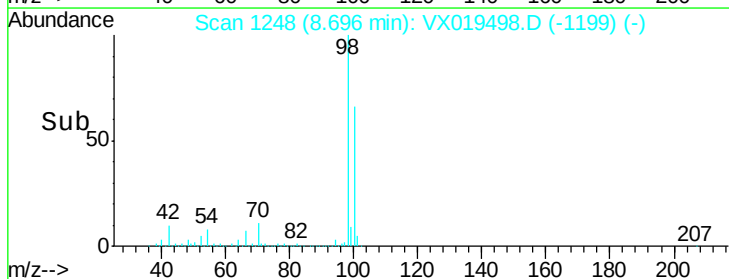
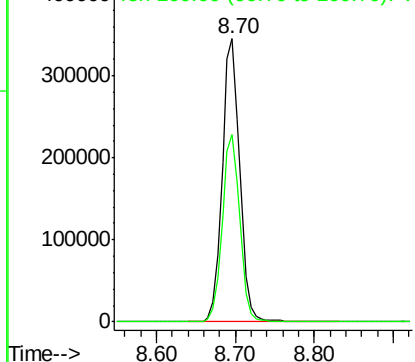


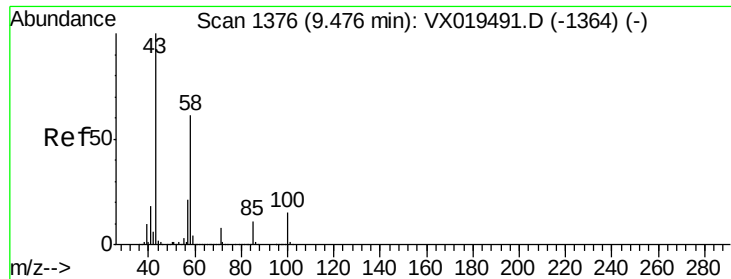
#50
Toluene-d8
Concen: 48.770 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

Tgt Ion: 98 Resp: 529397
Ion Ratio Lower Upper
98 100
100 66.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

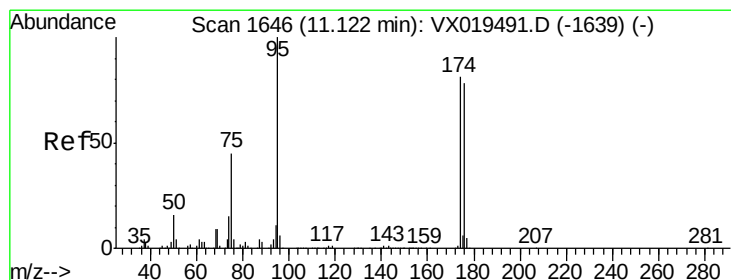
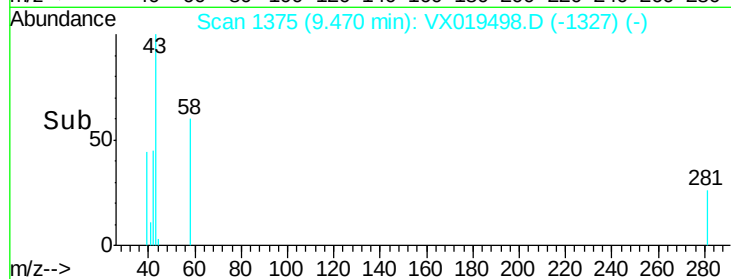
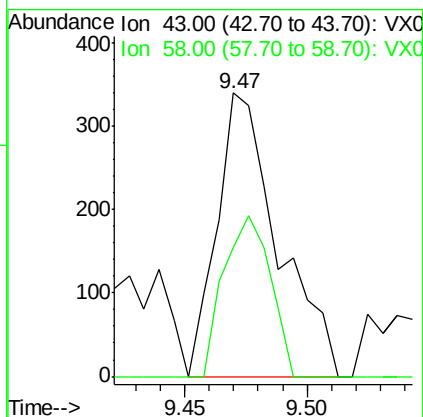
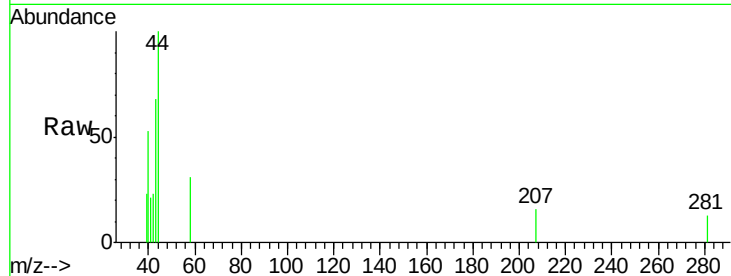




#59
2-Hexanone
Concen: 0.204 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. -0.01 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

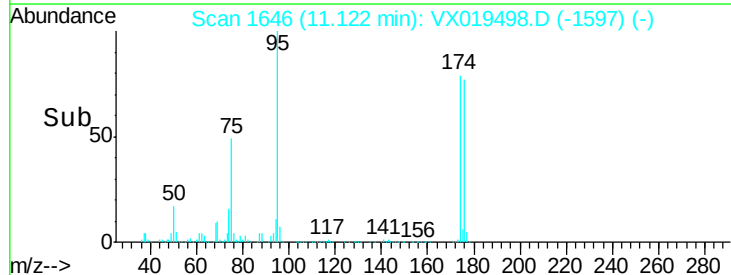
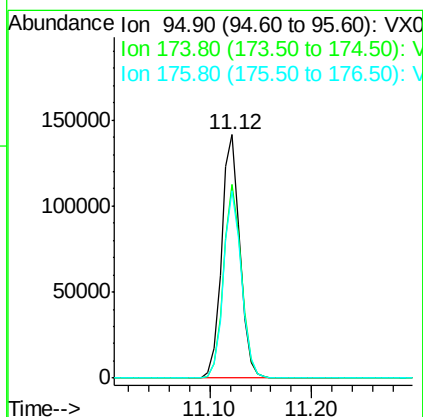
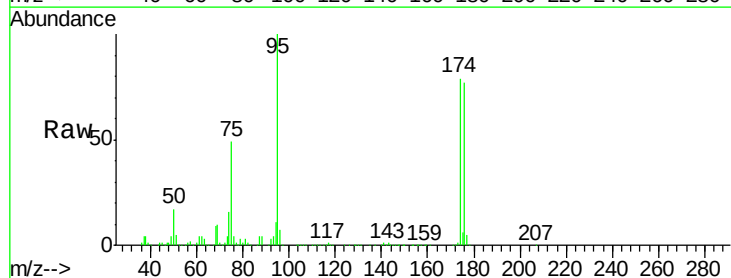
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SOIL-REF-6

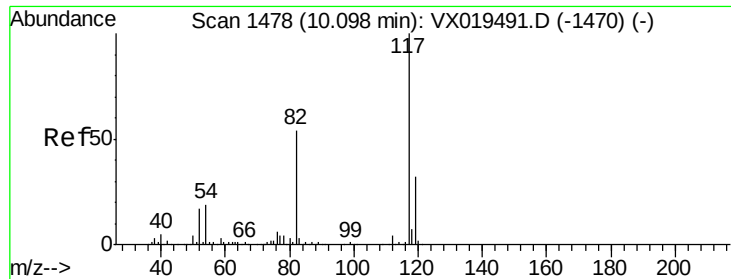
Tot Ion: 43 Resp: 593
Ion Ratio Lower Upper
43 100
58 43.2 30.6 91.6



#62
4-Bromofluorobenzene
Concen: 45.217 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

Tgt Ion: 95 Resp: 176594
Ion Ratio Lower Upper
95 100
174 78.1 0.0 156.2
176 75.8 0.0 151.4

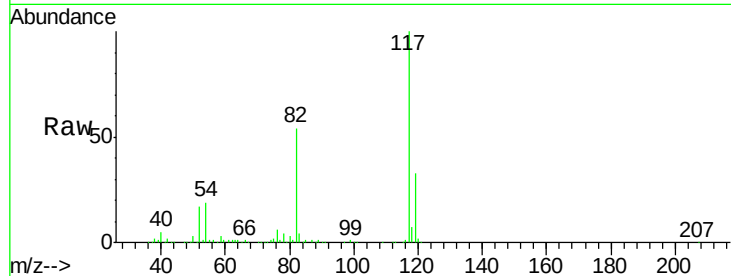




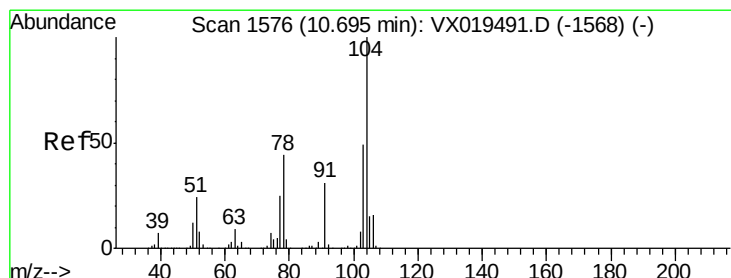
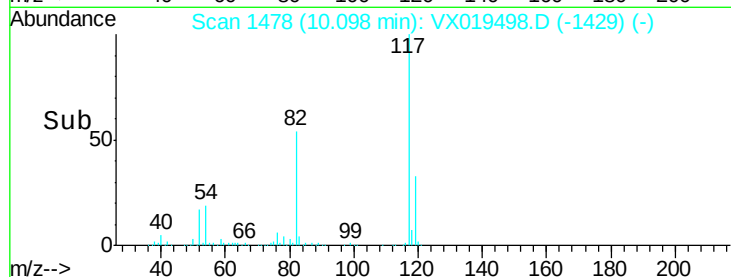
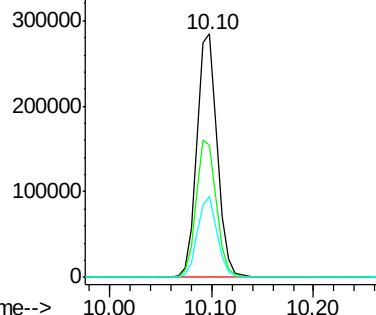
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

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

Tot Ion:117 Resp: 390822
Ion Ratio Lower Upper
117 100
82 54.5 43.0 64.4
119 33.1 25.6 38.4

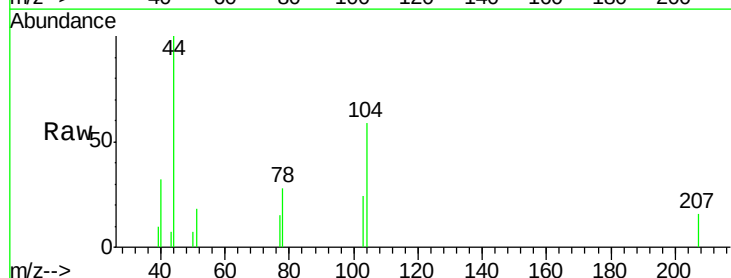


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

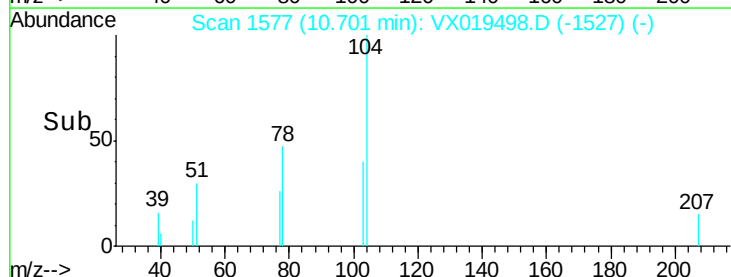
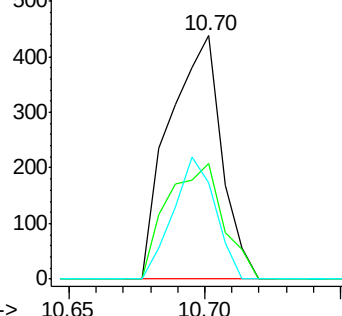


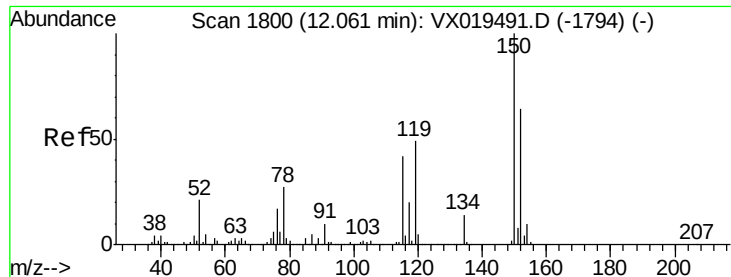
#70
Styrene
Concen: 1.707 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019498.D
Acq: 20 Nov 2020 16:15

Tgt Ion:104 Resp: 583
Ion Ratio Lower Upper
104 100
78 50.8 39.5 59.3
103 40.5 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

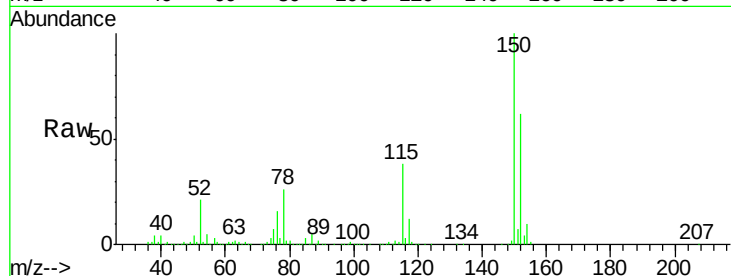
Tot Ion:152 Resp: 166605

Ion Ratio Lower Upper

152 100

115 60.2 41.8 125.4

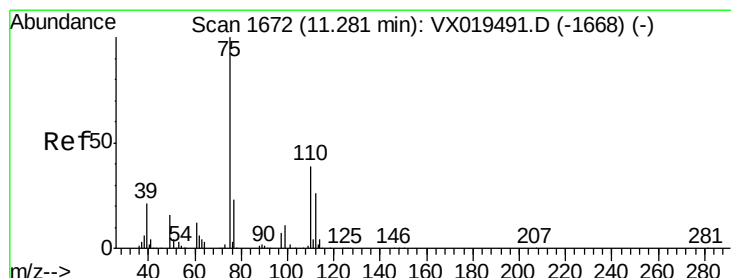
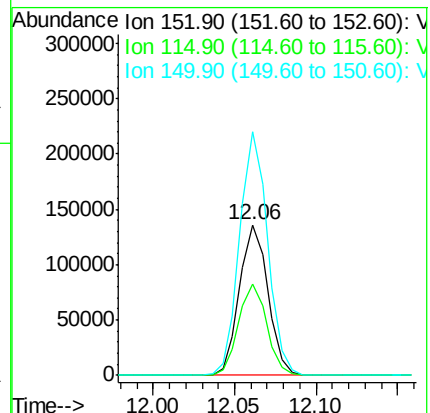
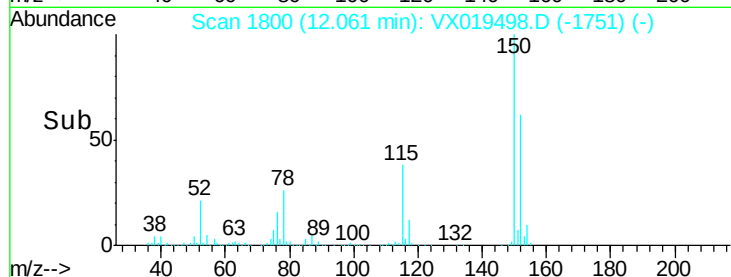
150 158.8 0.0 348.2



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: 23.930 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019498.D

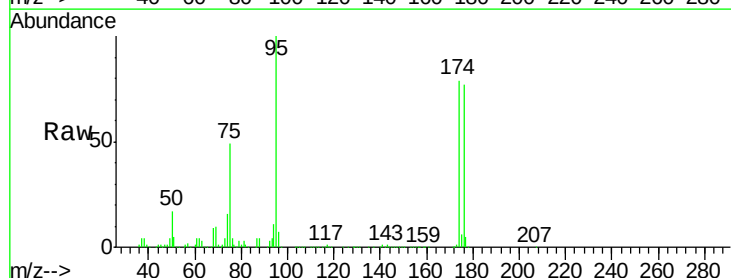
Acq: 20 Nov 2020 16:15

Tgt Ion: 75 Resp: 87007

Ion Ratio Lower Upper

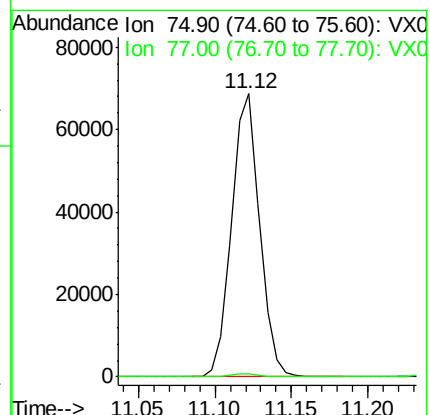
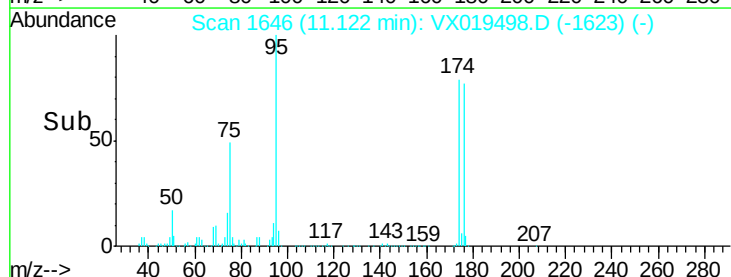
75 100

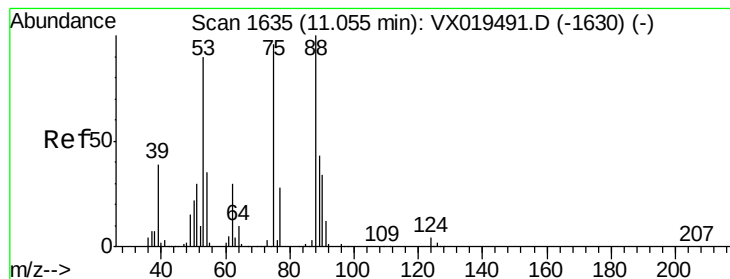
77 1.2 20.0 60.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.394 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

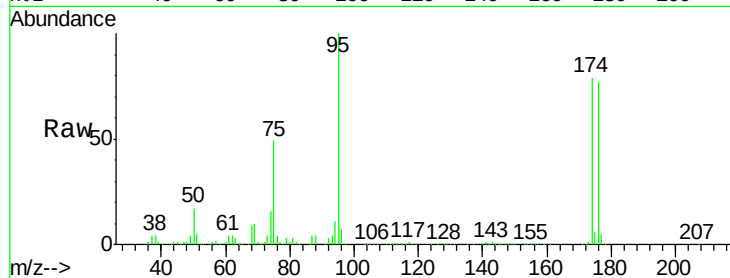
Tot Ion: 75 Resp: 87007

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

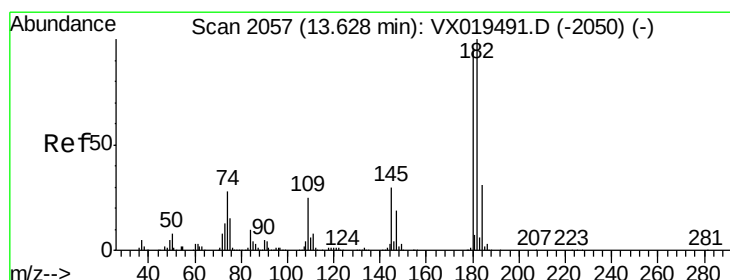
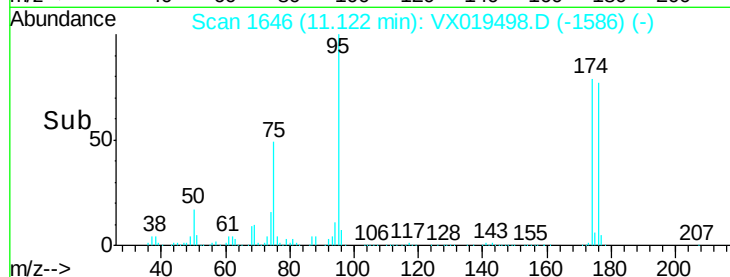
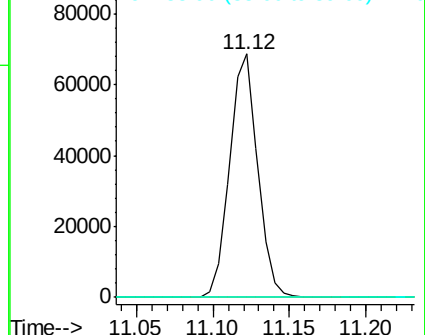
89 0.0 37.3 55.9#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.236 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

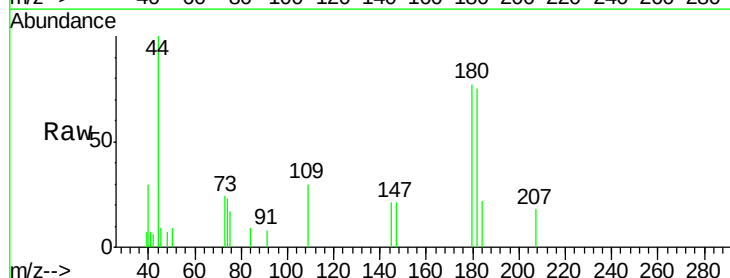
Tgt Ion:180 Resp: 823

Ion Ratio Lower Upper

180 100

182 93.9 48.6 145.9

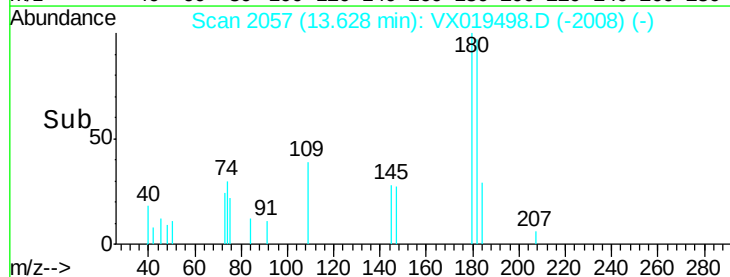
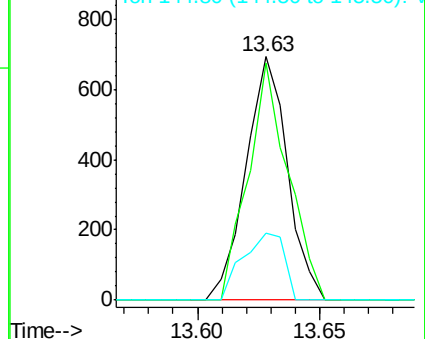
145 27.3 15.9 47.7

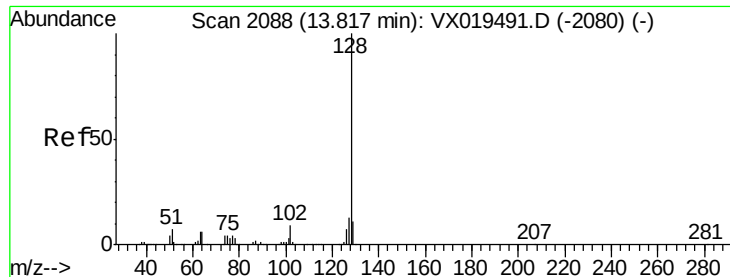


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.335 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

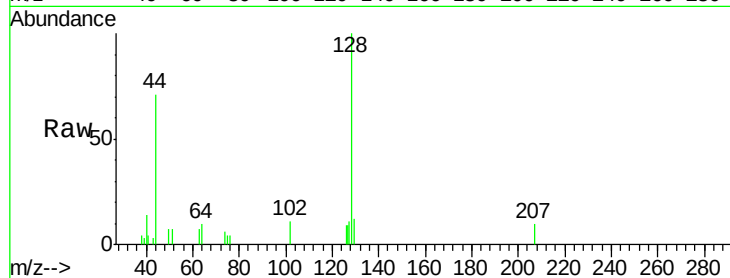
Tot Ion:128 Resp: 2015

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

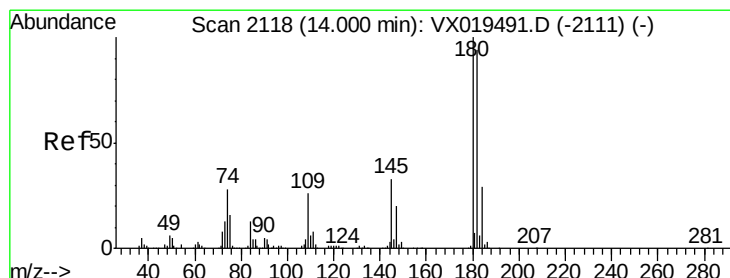
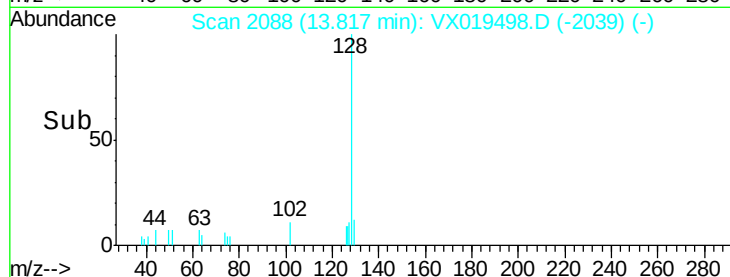
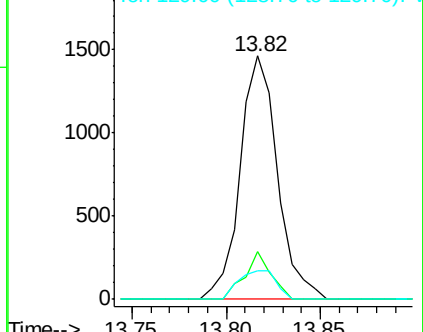
129 11.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.213 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX019498.D

Acq: 20 Nov 2020 16:15

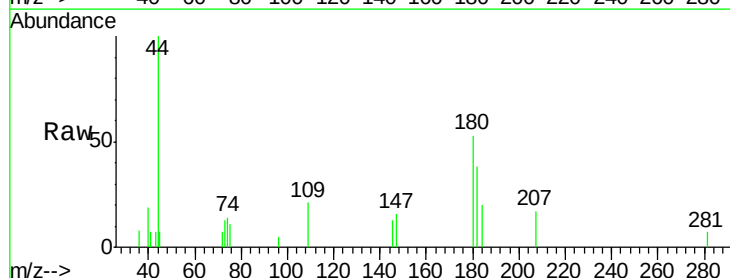
Tgt Ion:180 Resp: 741

Ion Ratio Lower Upper

180 100

182 90.4 48.1 144.3

145 29.0 16.6 49.8



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

