

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019888.D
 Acq On : 11 Dec 2020 20:29
 Operator : JC/MD
 Sample : L4996-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D2-20201207

Quant Time: Dec 12 00:06:27 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	326202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	539793	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	486213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211596	50.00	ug/l	0.00

System Monitoring Compounds

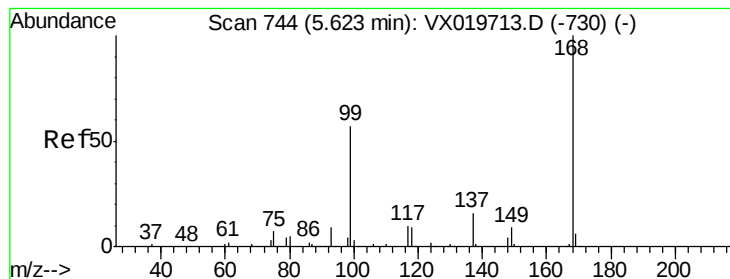
33) 1,2-Dichloroethane-d4	6.03	65	206164	48.09	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.18%		
35) Dibromofluoromethane	5.46	113	165622	47.48	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.96%		
50) Toluene-d8	8.70	98	654006	49.10	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	98.20%		
62) 4-Bromofluorobenzene	11.12	95	225673	44.52	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	89.04%		

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.18	85	4692	1.571	ug/l	94
5) Bromomethane	1.64	94	272	0.221	ug/l #	67
9) 1,1,2-Trichlorotrifluoroet	2.36	101	10913	3.692	ug/l	99
11) Tert butyl alcohol	3.00	59	548	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	1201	0.402	ug/l	92
16) Acetone	2.42	43	1223	0.759	ug/l #	82
20) Methylene Chloride	2.84	84	343	Below Cal	#	83
24) 1,1-Dichloroethane	3.67	63	1445	0.235	ug/l #	83
27) cis-1,2-Dichloroethene	4.56	96	2259	0.554	ug/l	97
29) Tetrahydrofuran	5.09	42	518	0.325	ug/l #	67
31) Cyclohexane	5.62	56	6475	1.214	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24760	5.076	ug/l #	49
38) Carbon Tetrachloride	5.62	117	31769	6.651	ug/l #	16
44) Trichloroethene	7.19	130	11946	3.056	ug/l	94
49) 1,4-Dioxane	7.71	88	1639	17.181	ug/l	92
76) 1,2,3-Trichloropropane	11.12	75	107861	22.728	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107861	65.703	ug/l #	12

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121120\  
Data File : VX019888.D  
Acq On    : 11 Dec 2020   20:29  
Operator  : JC/MD  
Sample    : L4996-11  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 25      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

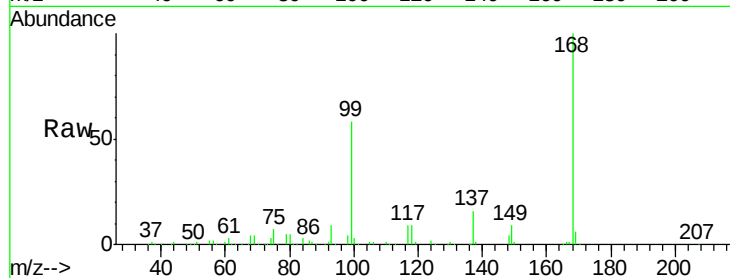
RE132D2-20201207

Tgt Ion:168 Resp: 326202

Ion Ratio Lower Upper

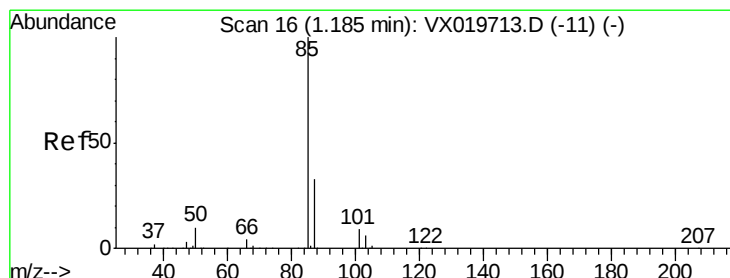
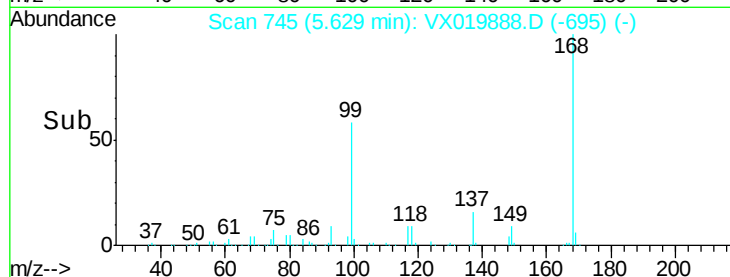
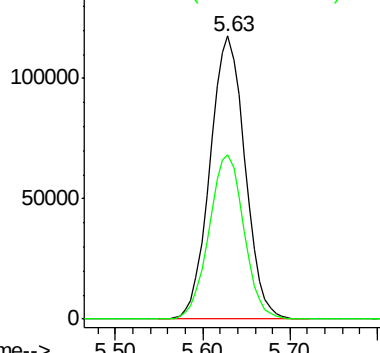
168 100

99 57.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 1.571 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019888.D

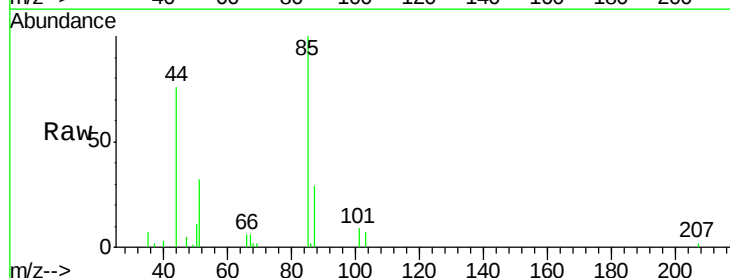
Acq: 11 Dec 2020 20:29

Tgt Ion: 85 Resp: 4692

Ion Ratio Lower Upper

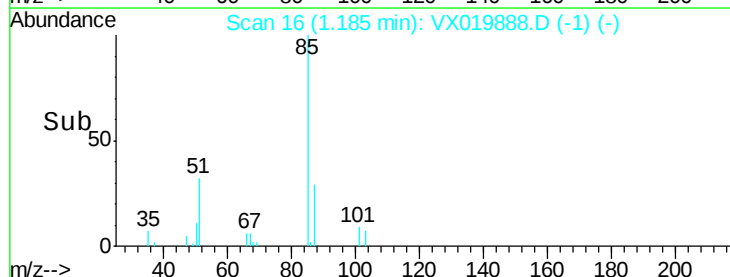
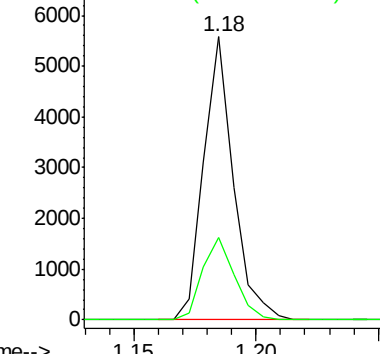
85 100

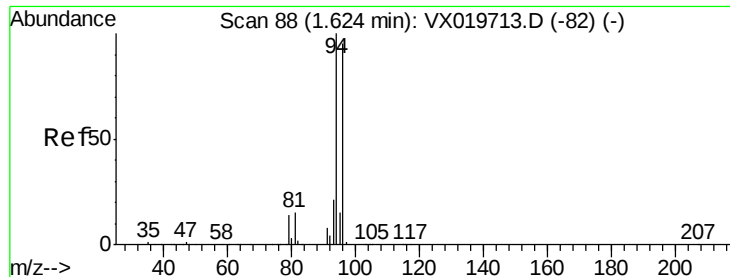
87 29.3 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 0.221 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

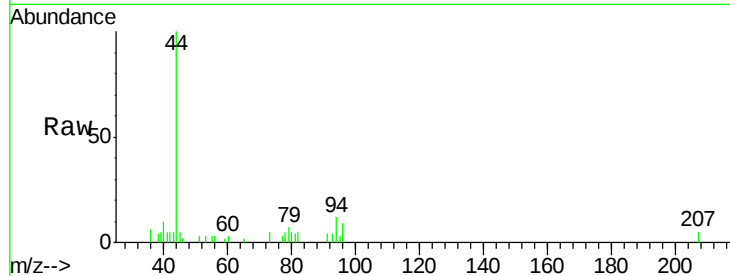
RE132D2-20201207

Tgt Ion: 94 Resp: 272

Ion Ratio Lower Upper

94 100

96 63.1 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

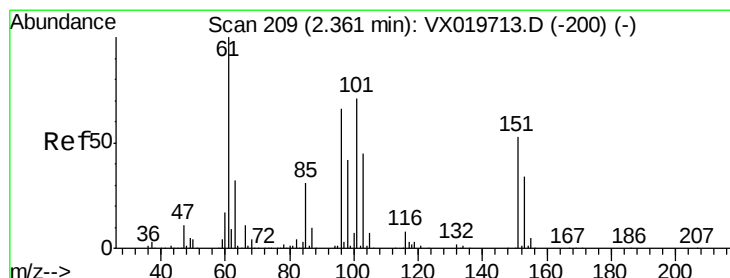
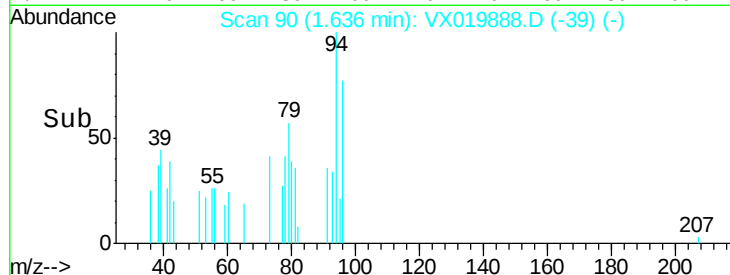
200

100

0

1.60 1.62 1.64 1.66

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.692 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

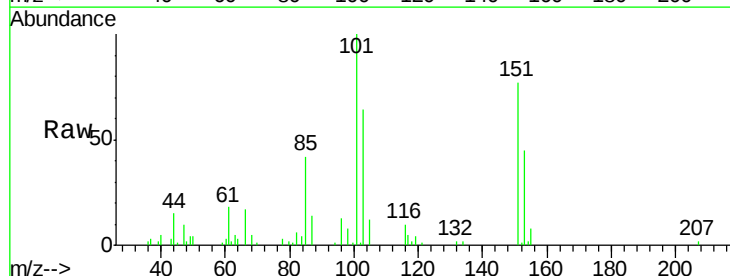
Tgt Ion: 101 Resp: 10913

Ion Ratio Lower Upper

101 100

85 41.8 34.9 52.3

151 76.4 61.4 92.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

6000

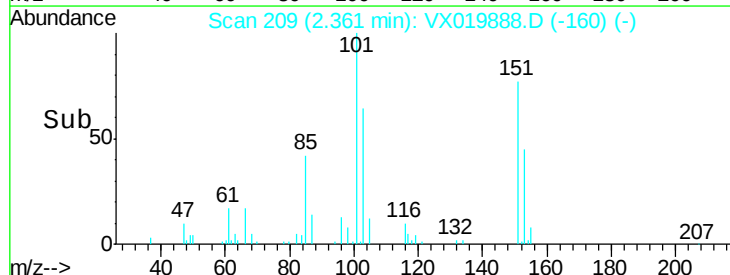
4000

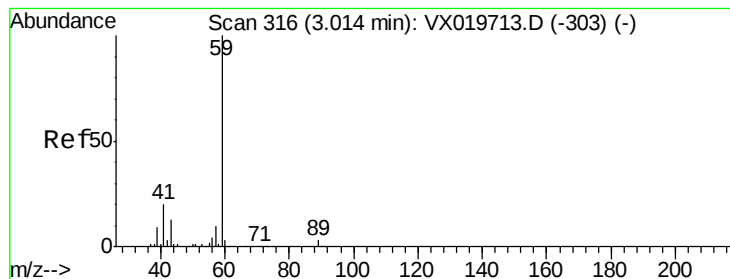
2000

0

2.30 2.35 2.40 2.45

Time-->



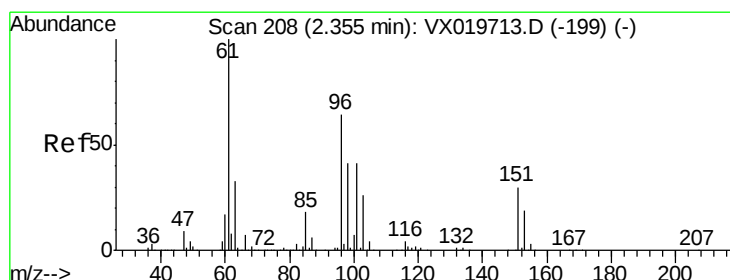
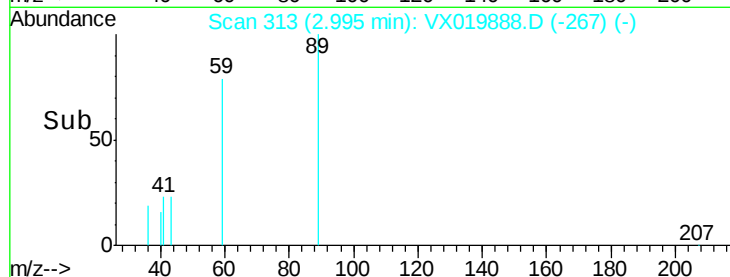
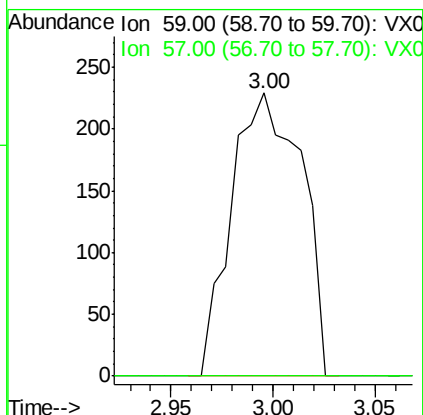
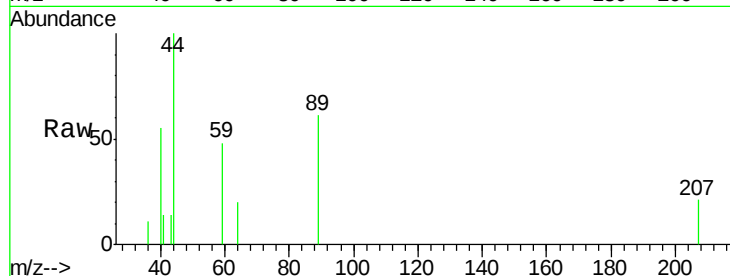


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019888.D
Acq: 11 Dec 2020 20:29

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20201207

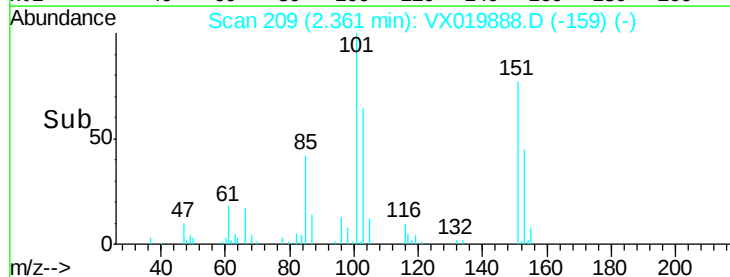
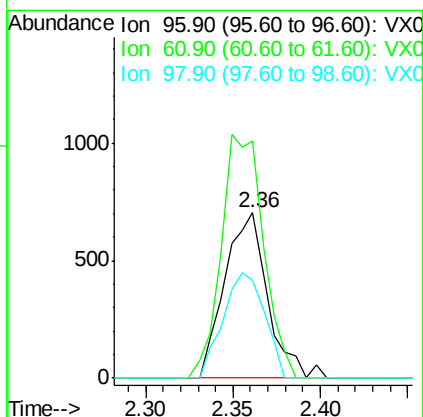
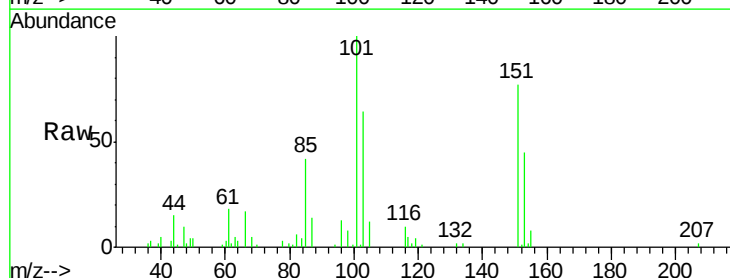
Tgt Ion: 59 Resp: 548
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

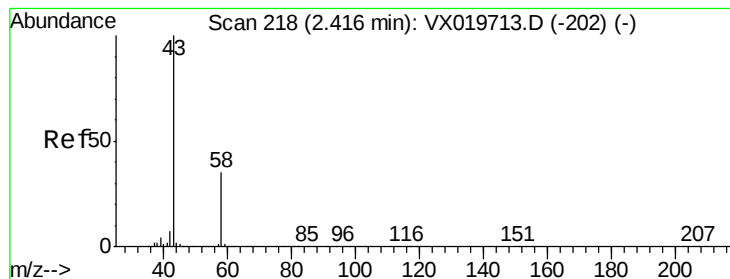


#12

1,1-Dichloroethene
Concen: 0.402 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX019888.D
Acq: 11 Dec 2020 20:29

Tgt Ion: 96 Resp: 1201
Ion Ratio Lower Upper
96 100
61 143.6 124.6 187.0
98 59.4 50.6 76.0





#16

Acetone

Concen: 0.759 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

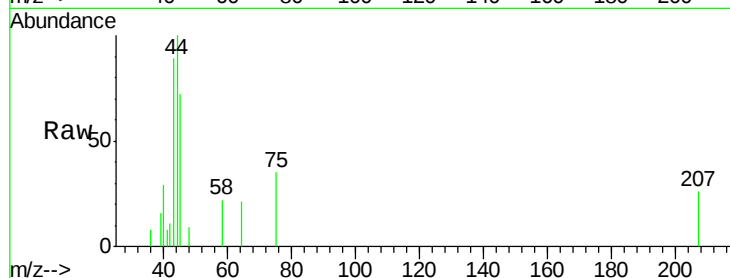
RE132D2-20201207

Tgt Ion: 43 Resp: 1223

Ion Ratio Lower Upper

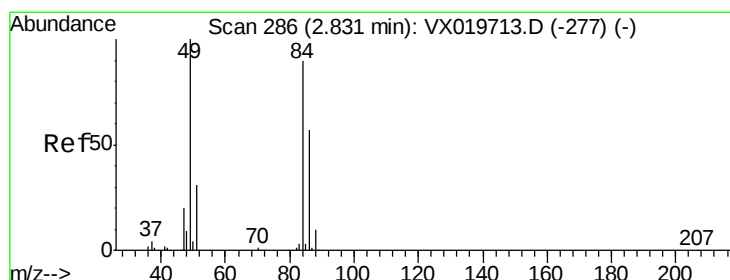
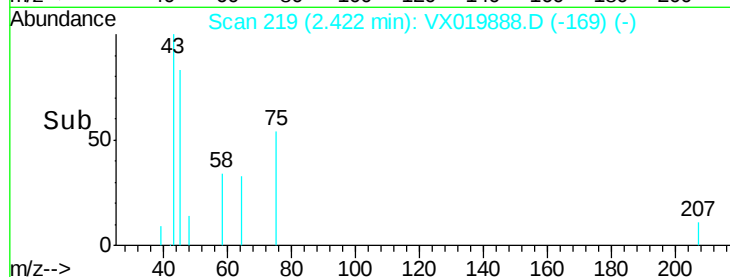
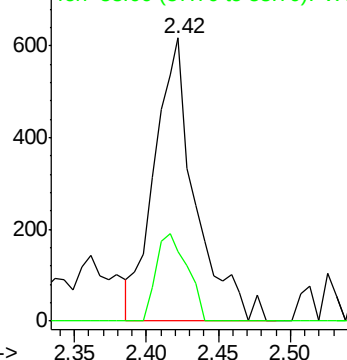
43 100

58 24.6 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Tgt Ion: 84 Resp: 343

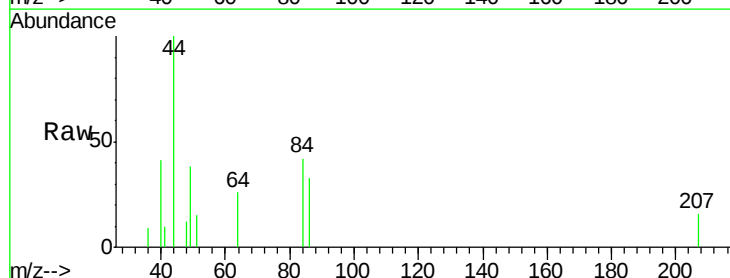
Ion Ratio Lower Upper

84 100

49 90.6 88.6 132.8

51 36.1 27.0 40.6

86 79.8 50.3 75.5#

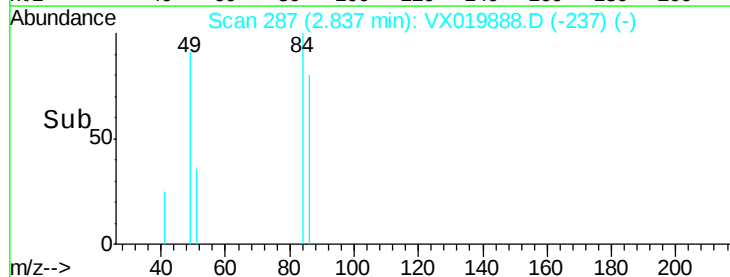
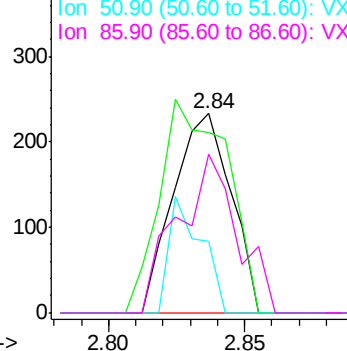


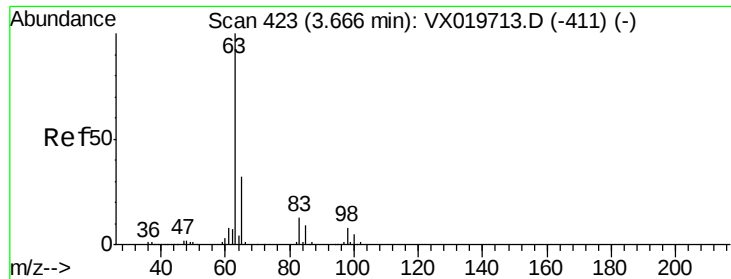
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#24

1,1-Dichloroethane

Concen: 0.235 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20201207

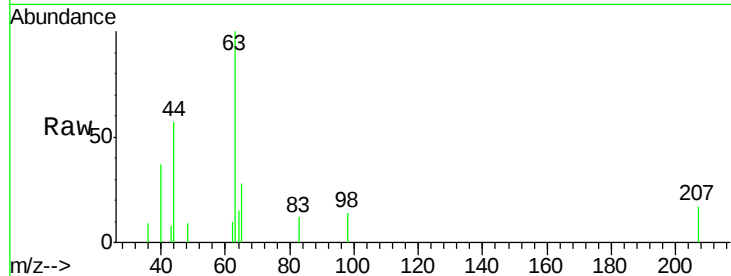
Tgt Ion: 63 Resp: 1445

Ion Ratio Lower Upper

63 100

98 13.8 3.8 11.2#

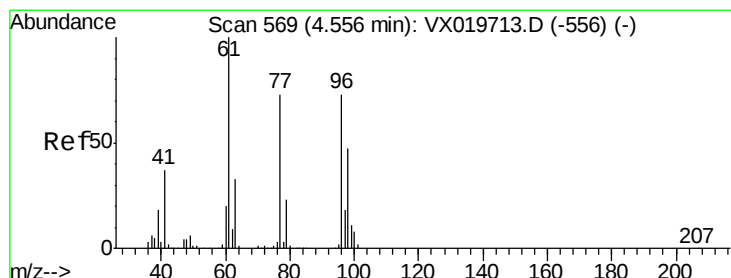
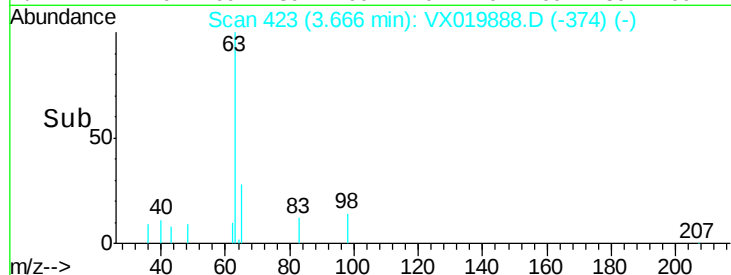
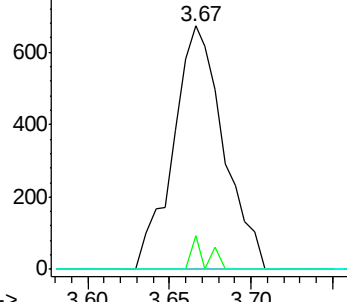
100 0.0 2.5 7.5#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.554 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.00 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

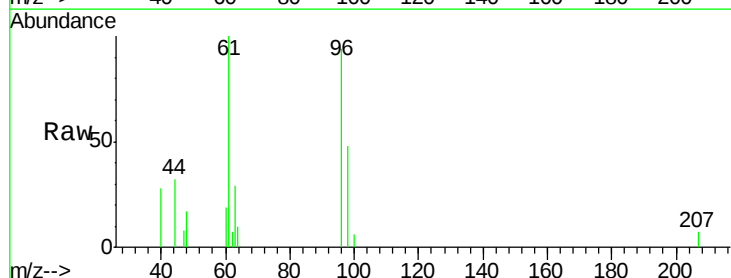
Tgt Ion: 96 Resp: 2259

Ion Ratio Lower Upper

96 100

61 141.4 0.0 285.6

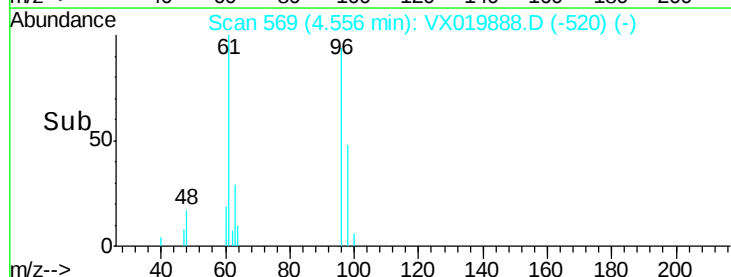
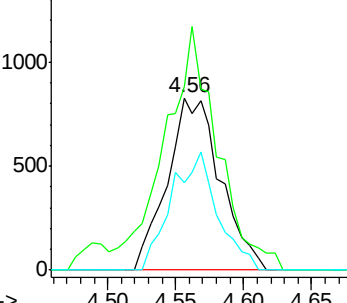
98 59.7 0.0 129.6

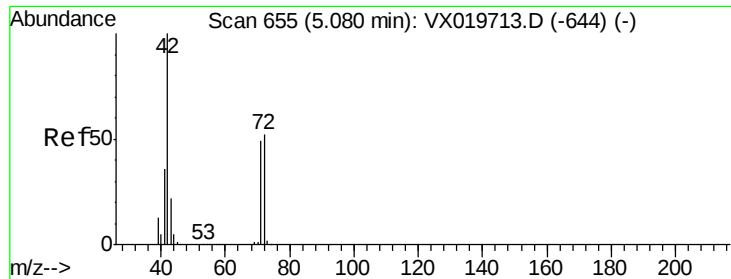


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

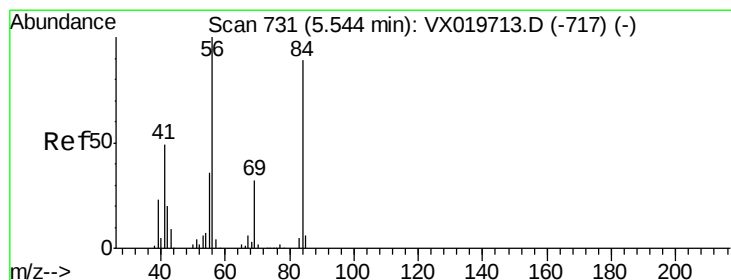
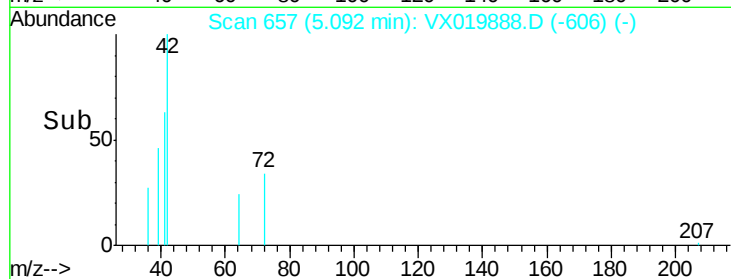
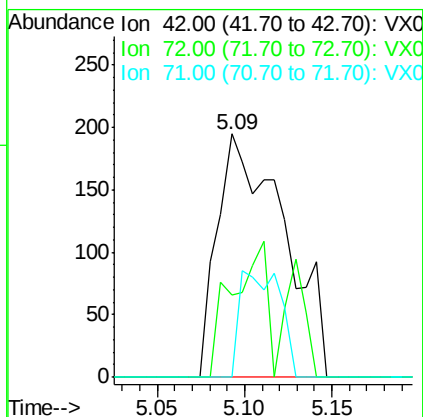
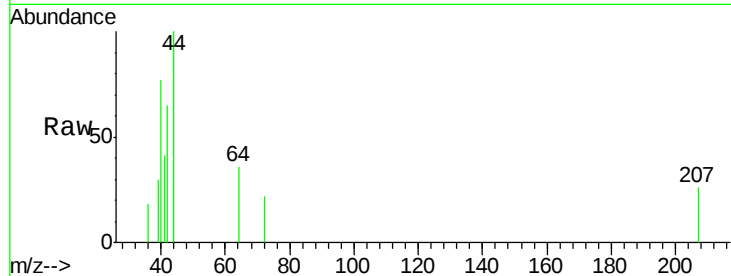




#29
Tetrahydrofuran
Concen: 0.325 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX019888.D
Acq: 11 Dec 2020 20:29

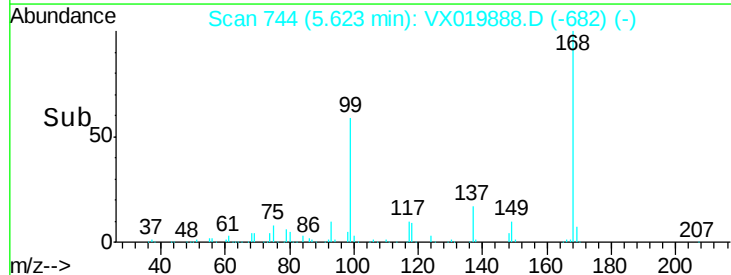
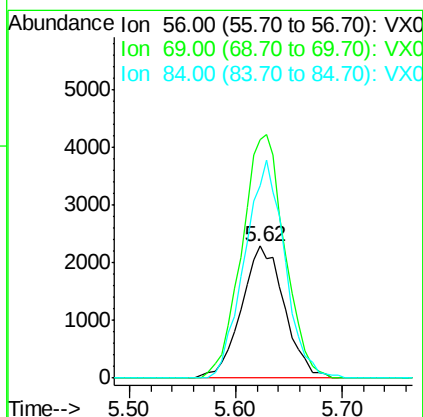
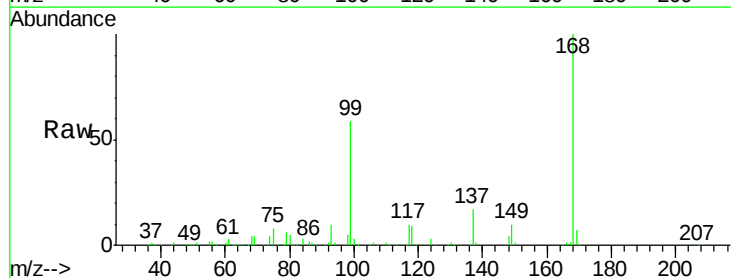
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20201207

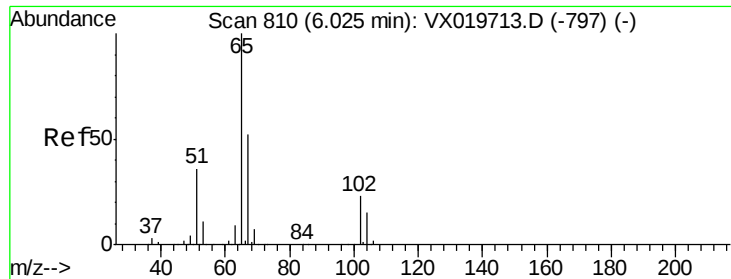
Tgt Ion: 42 Resp: 518
Ion Ratio Lower Upper
42 100
72 28.8 41.7 62.5#
71 26.4 38.4 57.6#



#31
Cyclohexane
Concen: 1.214 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019888.D
Acq: 11 Dec 2020 20:29

Tgt Ion: 56 Resp: 6475
Ion Ratio Lower Upper
56 100
69 180.6 25.3 37.9#
84 146.0 71.4 107.0#

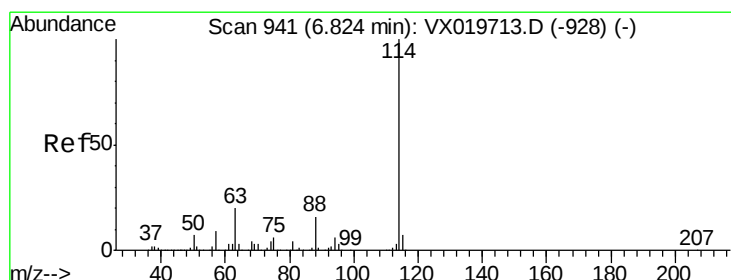
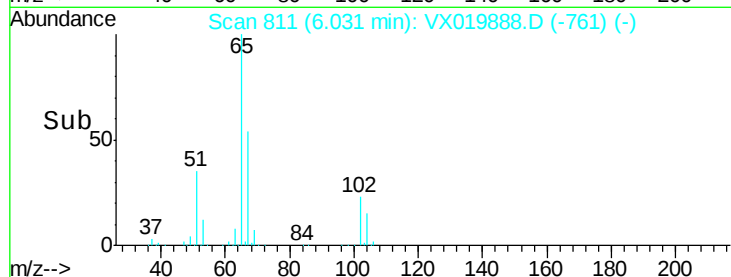
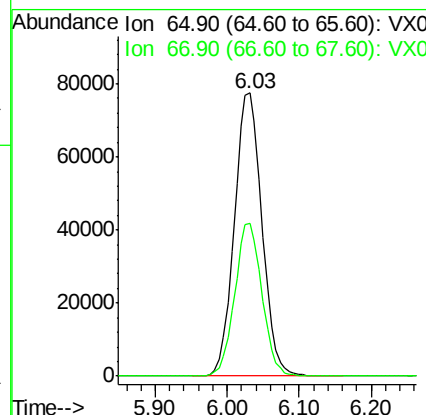
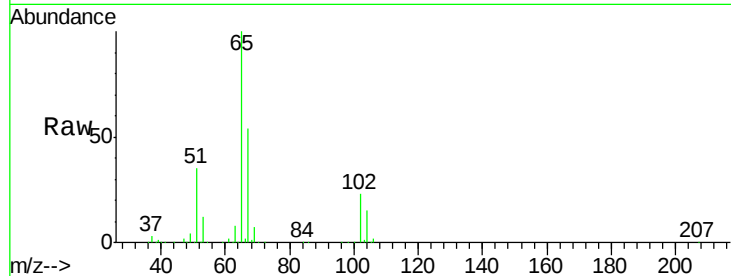




#33
 1,2-Dichloroethane-d4
 Concen: 48.088 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019888.D
 Acq: 11 Dec 2020 20:29

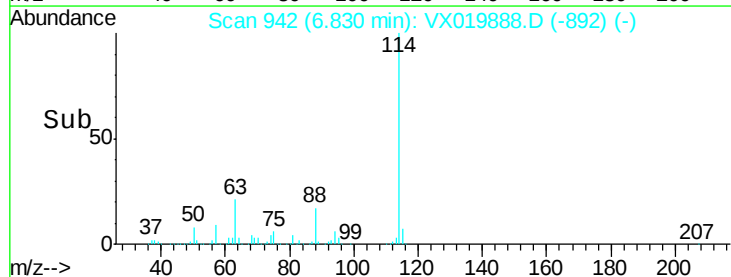
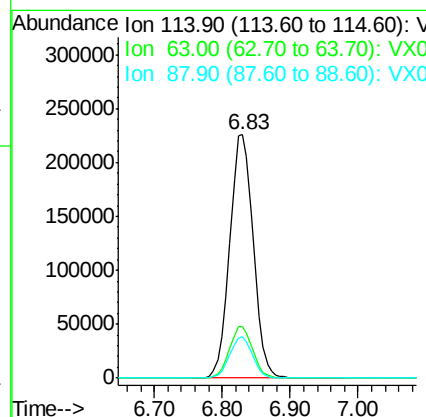
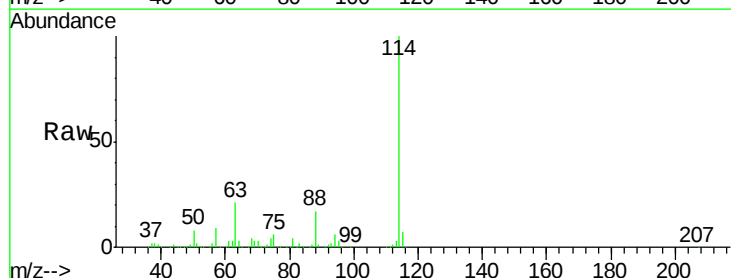
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D2-20201207

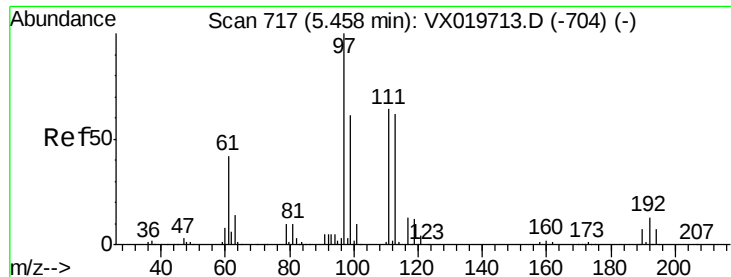
Tgt Ion: 65 Resp: 206164
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019888.D
 Acq: 11 Dec 2020 20:29

Tgt Ion: 114 Resp: 539793
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 16.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.475 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20201207

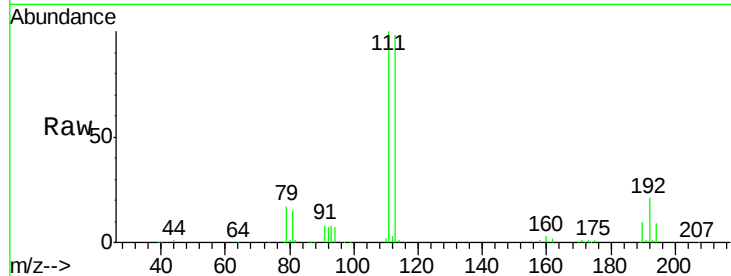
Tgt Ion:113 Resp: 165622

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

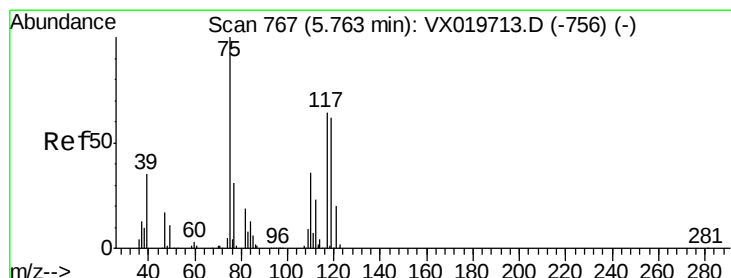
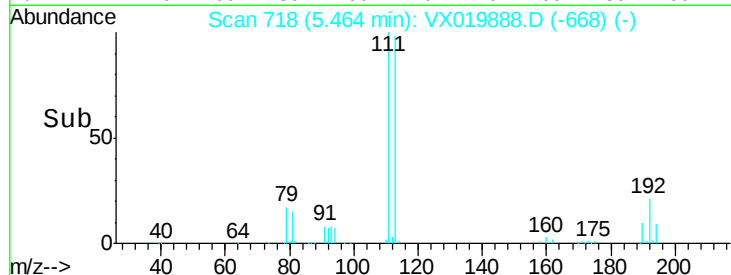
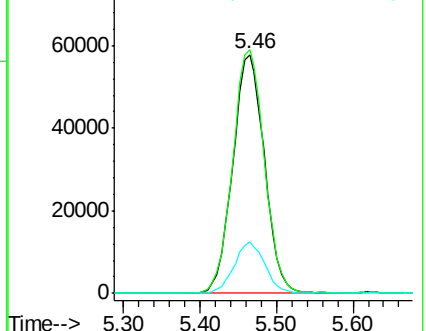
192 20.9 16.7 25.1



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: 5.076 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

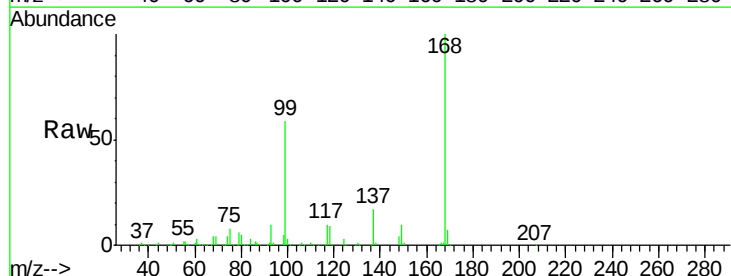
Tgt Ion: 75 Resp: 24760

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.4#

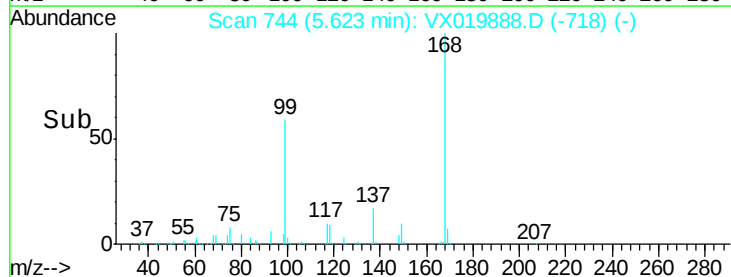
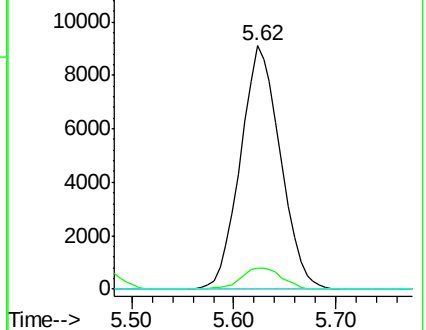
77 0.0 25.3 37.9#

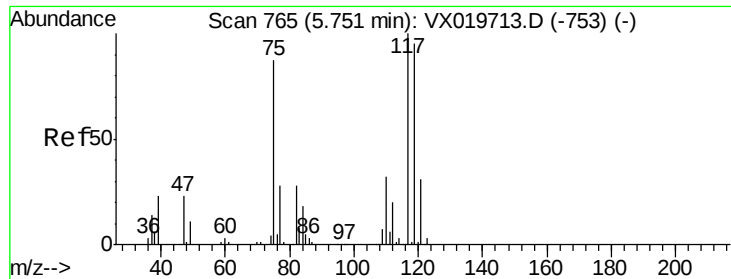


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.651 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20201207

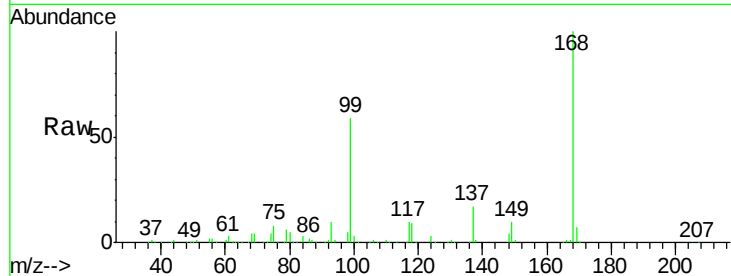
Tgt Ion:117 Resp: 31769

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

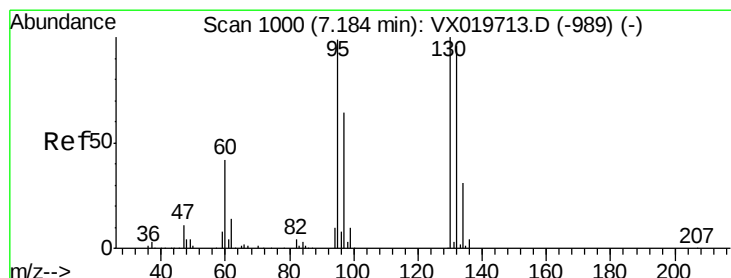
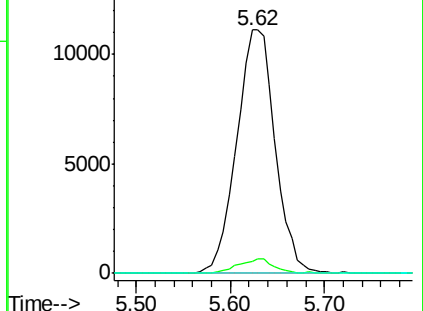
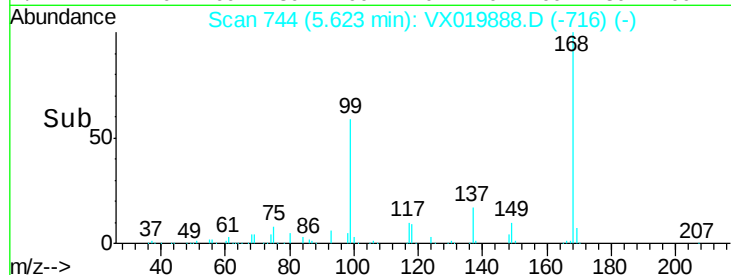
121 0.0 24.8 37.2#



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



#44

Trichloroethene

Concen: 3.056 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019888.D

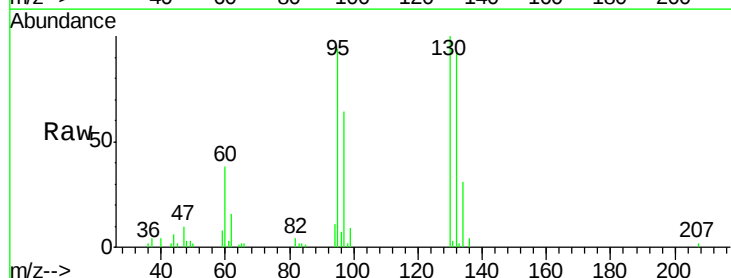
Acq: 11 Dec 2020 20:29

Tgt Ion:130 Resp: 11946

Ion Ratio Lower Upper

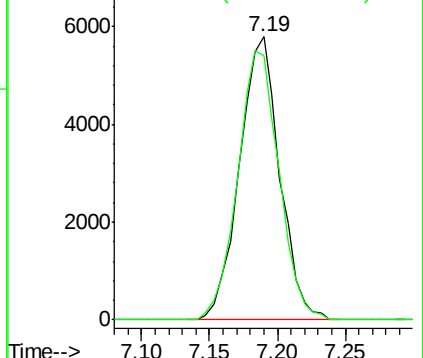
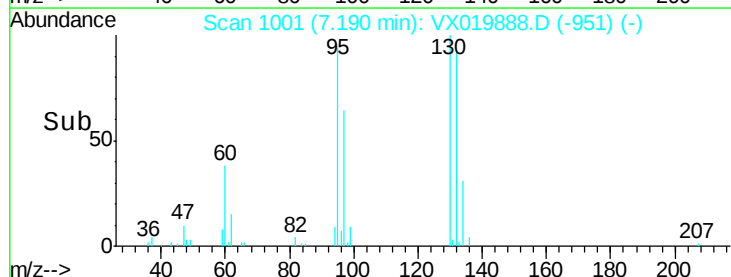
130 100

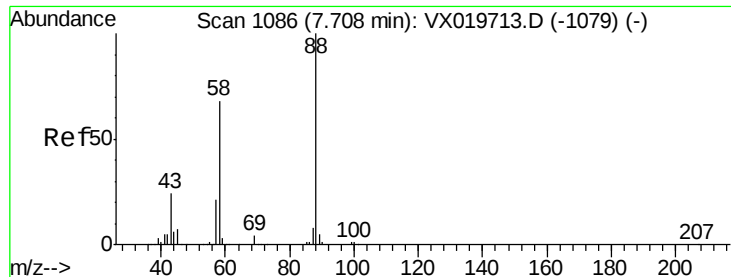
95 93.5 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

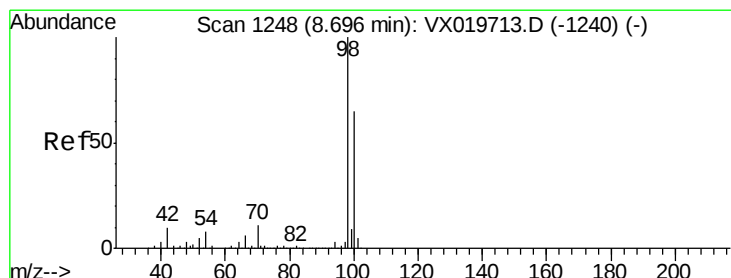
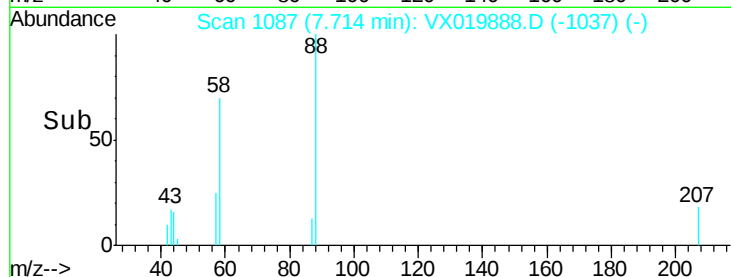
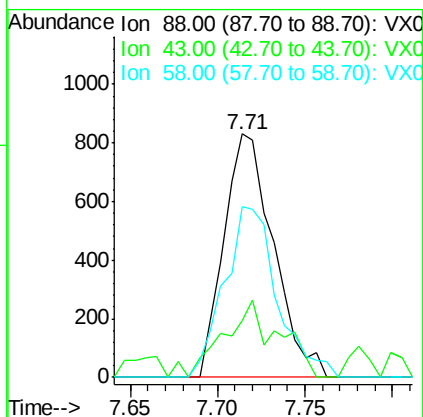
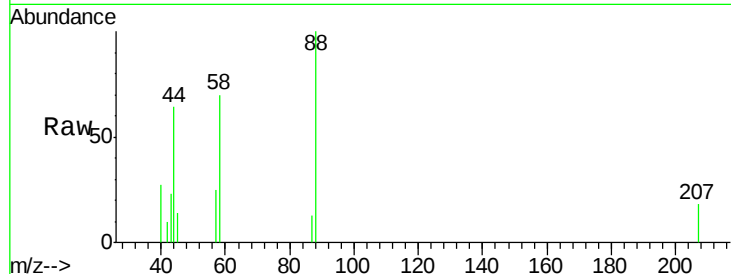




#49
1,4-Dioxane
Concen: 17.181 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.01 min
Lab File: VX019888.D
Acq: 11 Dec 2020 20:29

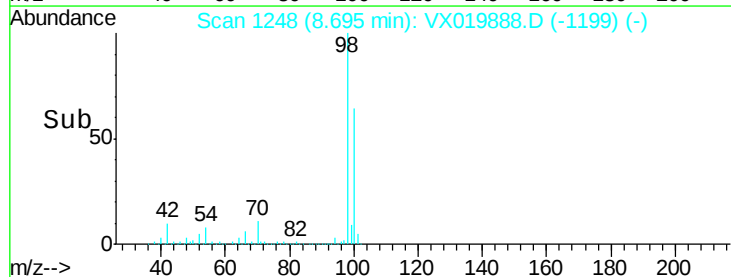
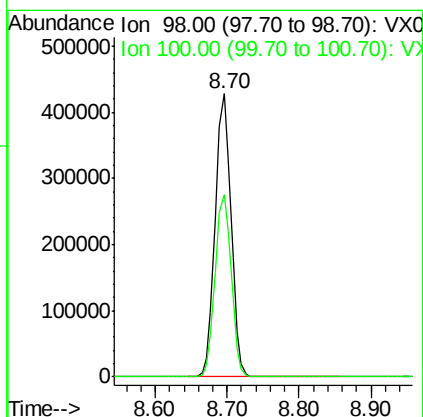
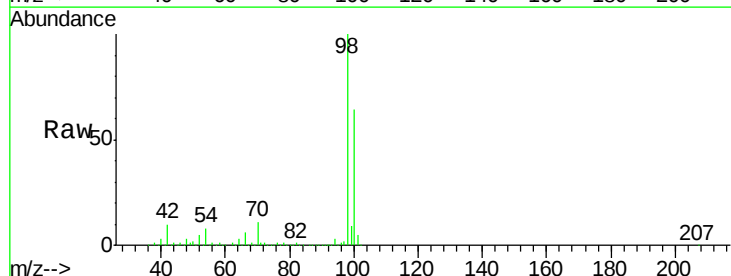
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20201207

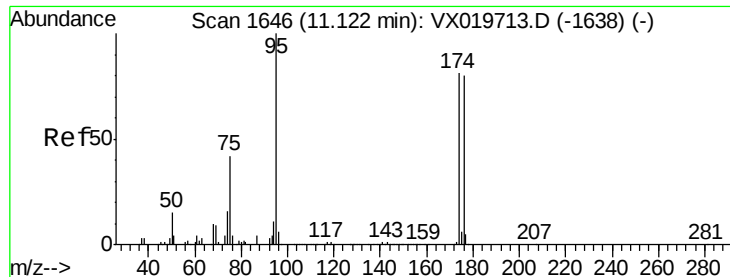
Tgt Ion: 88 Resp: 1639
Ion Ratio Lower Upper
88 100
43 34.5 23.2 34.8
58 74.7 55.0 82.4



#50
Toluene-d8
Concen: 49.105 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019888.D
Acq: 11 Dec 2020 20:29

Tgt Ion: 98 Resp: 654006
Ion Ratio Lower Upper
98 100
100 65.5 51.9 77.9





#62

4-Bromofluorobenzene

Concen: 44.518 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20201207

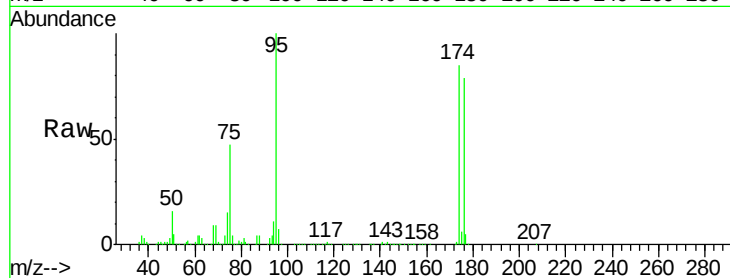
Tgt Ion: 95 Resp: 225673

Ion Ratio Lower Upper

95 100

174 78.5 0.0 154.6

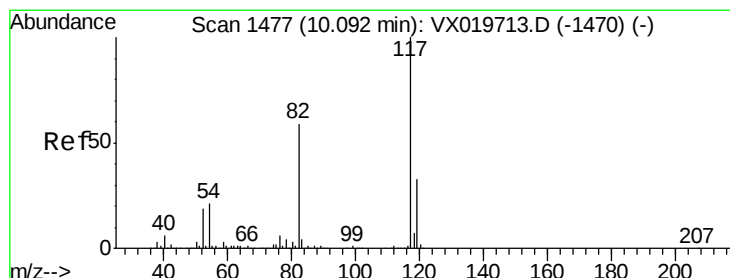
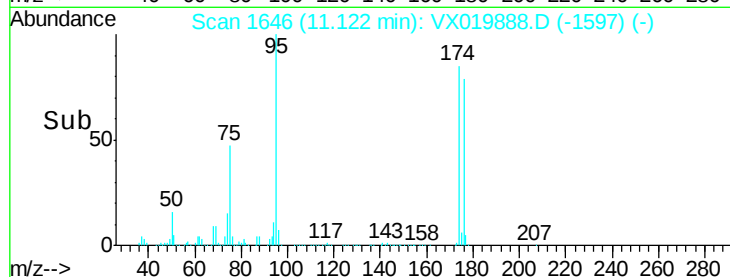
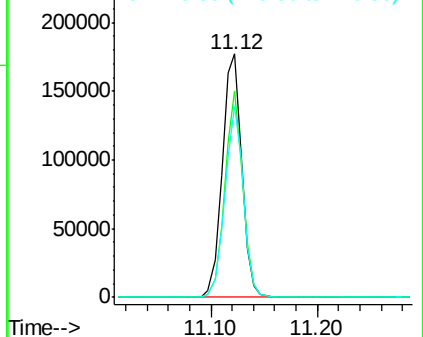
176 74.9 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

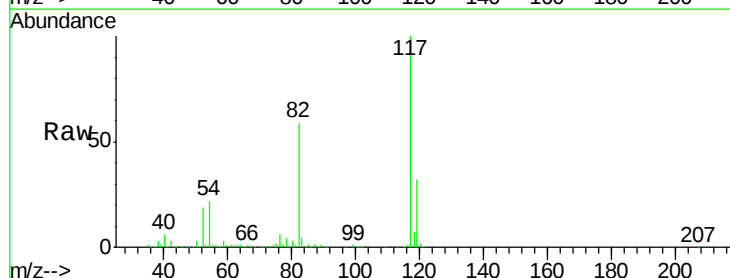
Tgt Ion: 117 Resp: 486213

Ion Ratio Lower Upper

117 100

82 58.6 47.4 71.2

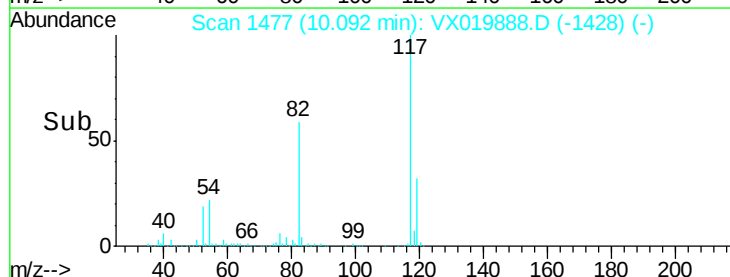
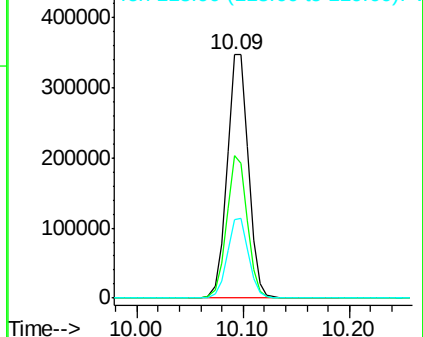
119 32.0 26.6 39.8

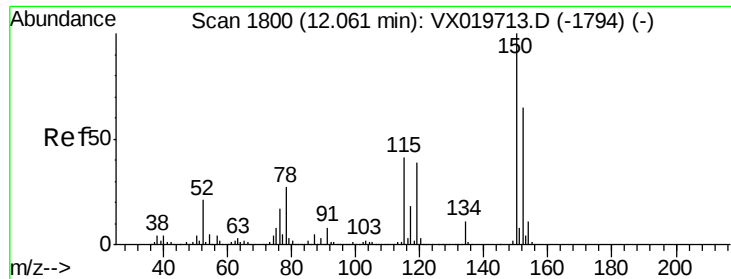


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20201207

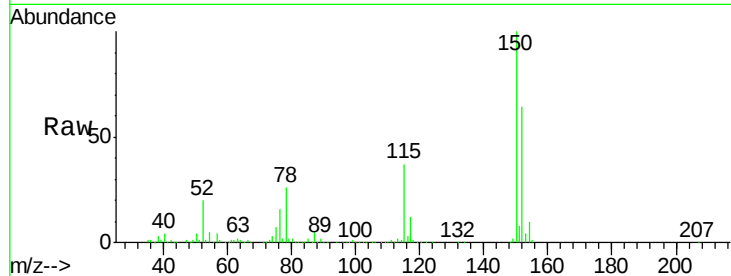
Tgt Ion: 152 Resp: 211596

Ion Ratio Lower Upper

152 100

115 59.0 41.1 123.3

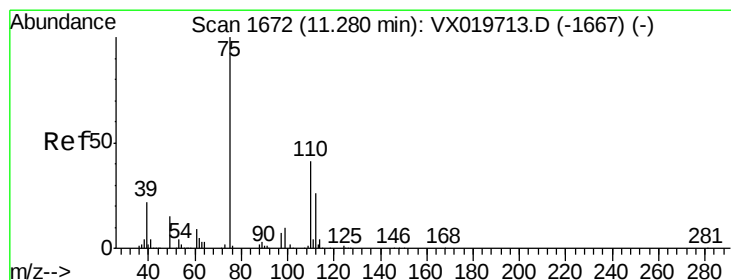
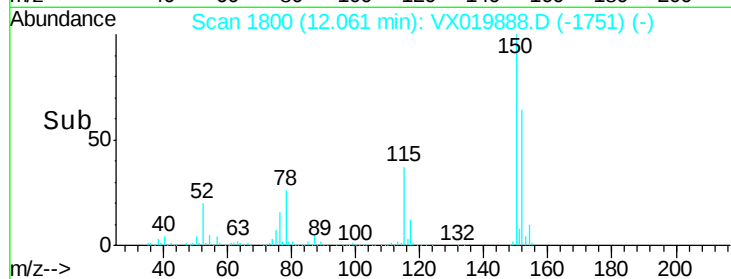
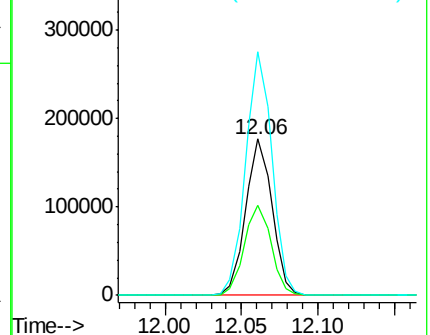
150 155.4 0.0 349.0



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: 22.728 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019888.D

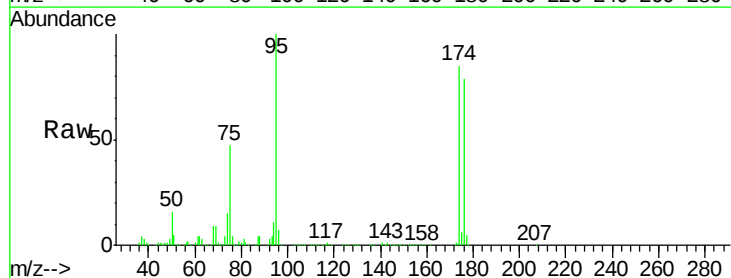
Acq: 11 Dec 2020 20:29

Tgt Ion: 75 Resp: 107861

Ion Ratio Lower Upper

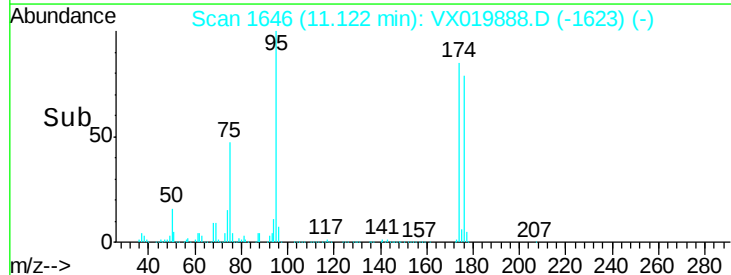
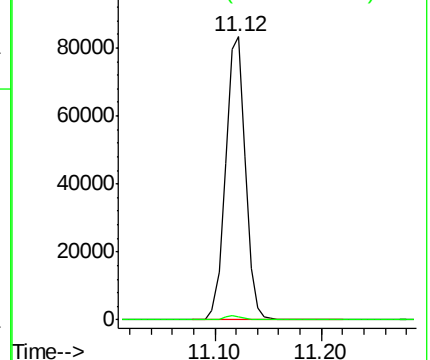
75 100

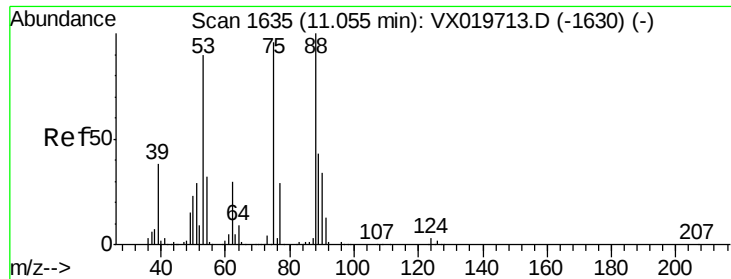
77 1.4 19.1 57.5#



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: 65.703 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019888.D

Acq: 11 Dec 2020 20:29

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20201207

Tgt Ion: 75 Resp: 107861

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

