

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019844.D
 Acq On : 10 Dec 2020 23:38
 Operator : JC/MD
 Sample : L4975-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 21222

Quant Time: Dec 11 02:47:26 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	336089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	554426	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	510581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	218636	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	211554	47.89	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.78%		
35) Dibromofluoromethane	5.46	113	169610	47.34	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.68%		
50) Toluene-d8	8.70	98	678120	49.57	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.14%		
62) 4-Bromofluorobenzene	11.12	95	237618	45.64	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	91.28%		

Target Compounds

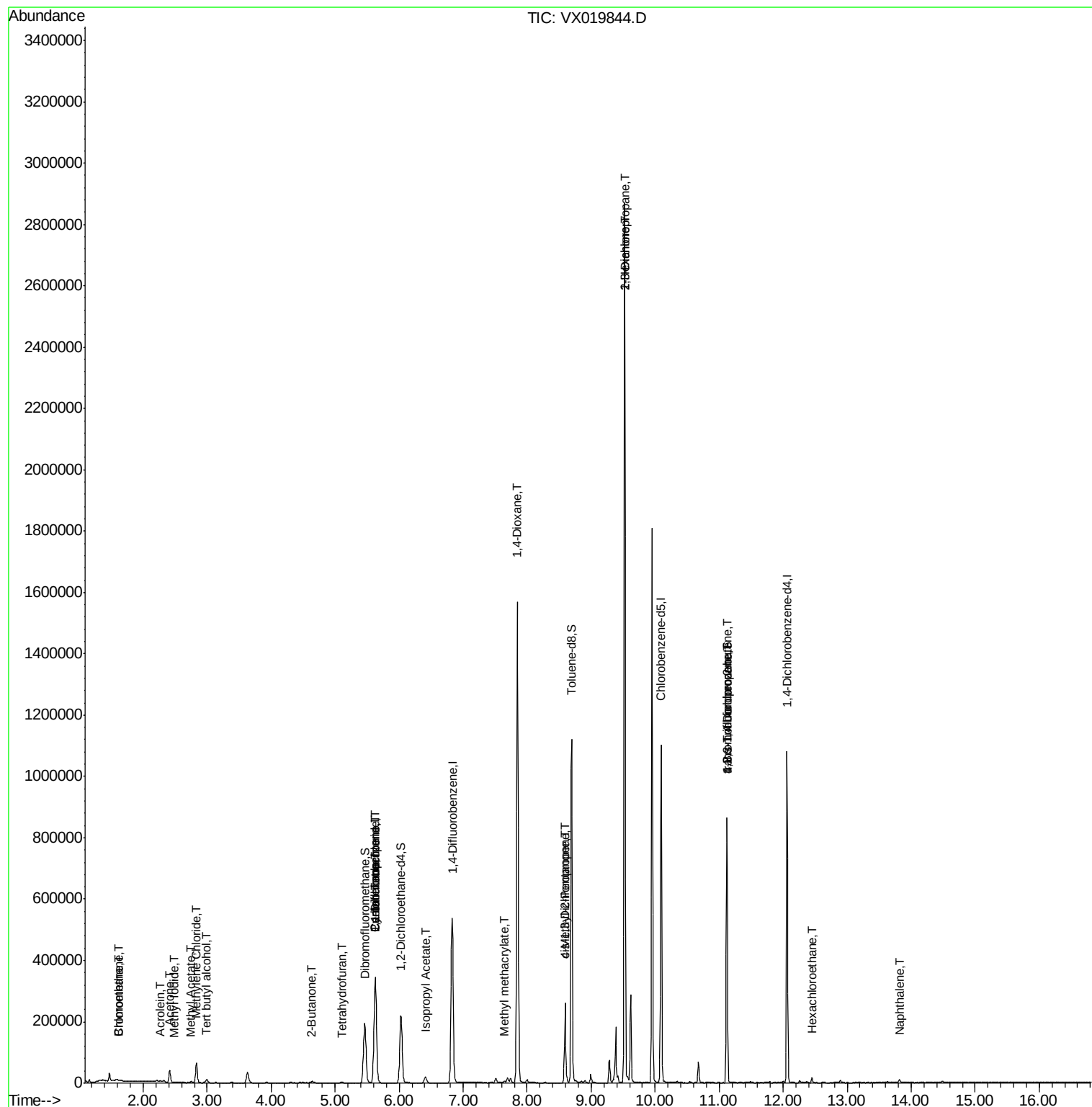
					Qvalue	
5) Bromomethane	1.63	94	825	0.651	ug/l	93
6) Chloroethane	1.62	64	1285	0.561	ug/l #	55
10) Methyl Iodide	2.49	142	1671	0.372	ug/l #	97
11) Tert butyl alcohol	2.99	59	6220	4.281	ug/l #	78
13) Acrolein	2.26	56	992	2.035	ug/l	87
16) Acetone	2.42	43	39641	23.876	ug/l	97
18) Methyl Acetate	2.75	43	5152	1.268	ug/l	94
20) Methylene Chloride	2.83	84	31494	7.088	ug/l	99
25) 2-Butanone	4.64	43	4924	1.930	ug/l	97
29) Tetrahydrofuran	5.11	42	1226	0.746	ug/l #	85
31) Cyclohexane	5.63	56	6447	1.173	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25515	5.093	ug/l #	49
38) Carbon Tetrachloride	5.62	117	32713	6.668	ug/l #	17
43) Isopropyl Acetate	6.41	43	24444	2.972	ug/l	98
48) Methyl methacrylate	7.65	41	6746	1.668	ug/l #	10
49) 1,4-Dioxane	7.85	88	259	2.643	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	82965	16.524	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	44371	7.181	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	26007	3.949	ug/l #	43
59) 2-Hexanone	9.52	43	317992	81.705	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	113802	23.208	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	113802	67.089	ug/l #	12
90) Hexachloroethane	12.45	117	711	0.318	ug/l #	9
95) Naphthalene	13.82	128	6021	0.417	ug/l	97

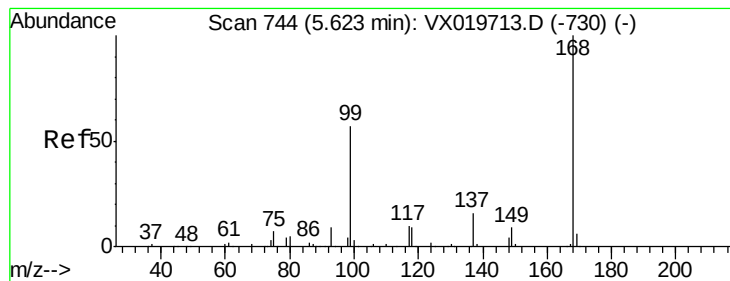
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
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Sample : L4975-01
Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
MSVOA_X
ClientSampleId :
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Quant Time: Dec 11 02:47:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampleId :

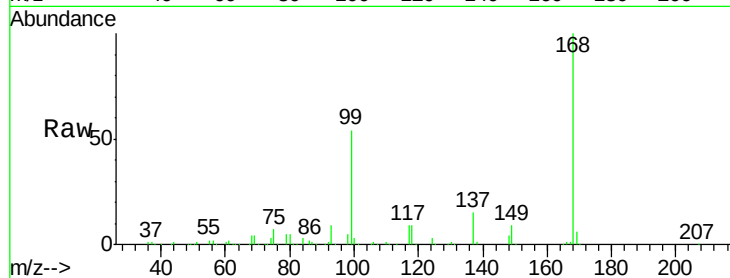
21222

Tgt Ion:168 Resp: 336089

Ion Ratio Lower Upper

168 100

99 54.1 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

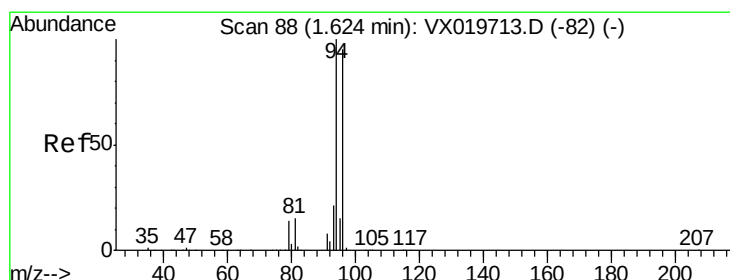
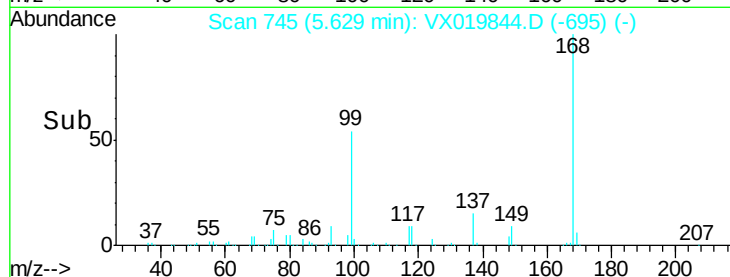
100000

50000

0

Time-->

5.50 5.60 5.70



#5

Bromomethane

Concen: 0.651 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019844.D

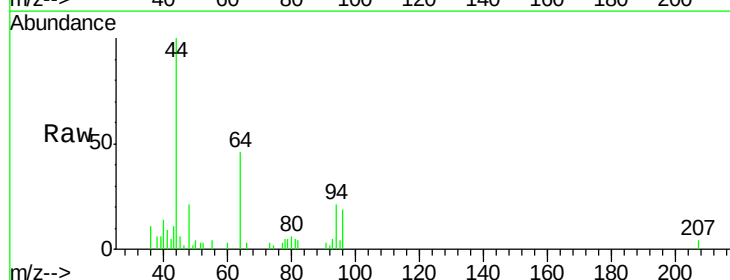
Acq: 10 Dec 2020 23:38

Tgt Ion: 94 Resp: 825

Ion Ratio Lower Upper

94 100

96 102.0 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

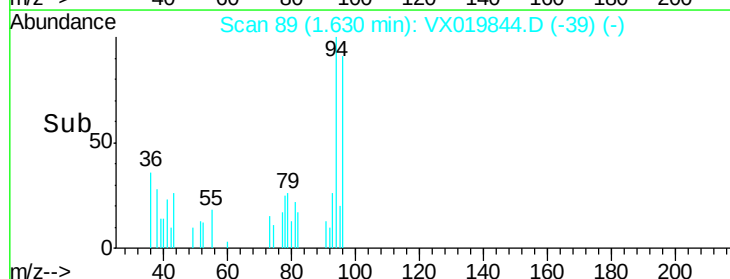
200

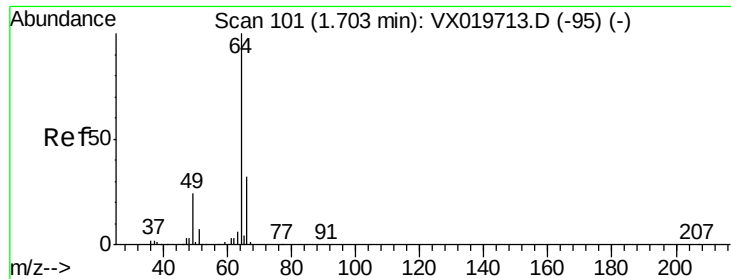
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.561 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.08 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampled :

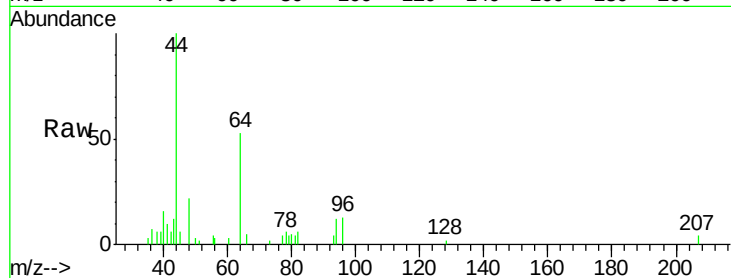
21222

Tgt Ion: 64 Resp: 1285

Ion Ratio Lower Upper

64 100

66 6.7 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.62

1.65

1.68

1.71

1.74

1.77

1.80

1.83

1.86

1.89

1.92

1.95

1.98

2.01

2.04

2.07

2.10

2.13

2.16

2.19

2.22

2.25

2.28

2.31

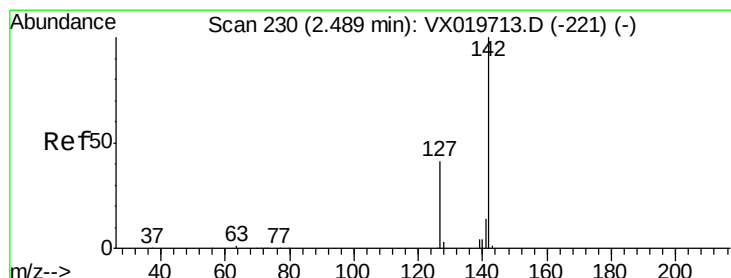
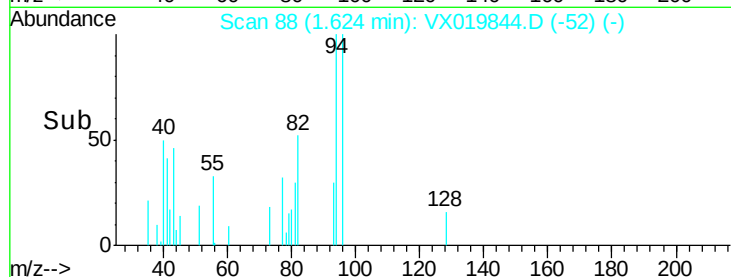
2.34

2.37

2.40

2.43

2.46



#10

Methyl Iodide

Concen: 0.372 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

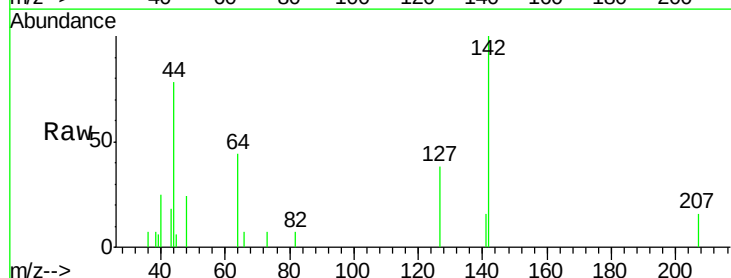
Tgt Ion: 142 Resp: 1671

Ion Ratio Lower Upper

142 100

127 42.3 33.3 49.9

141 11.2 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

2.49

2.52

2.55

2.58

2.61

2.64

2.67

2.70

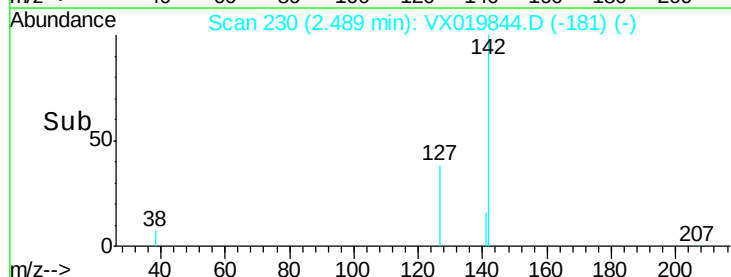
2.73

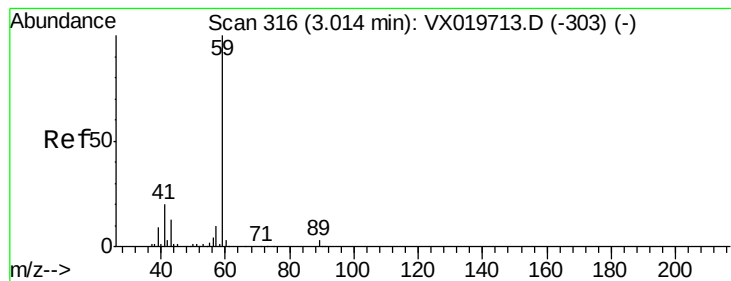
2.76

2.79

2.82

2.85





#11

Tert butyl alcohol

Concen: 4.281 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampled :

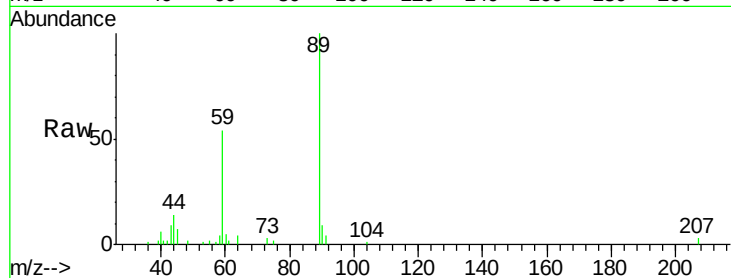
21222

Tgt Ion: 59 Resp: 6220

Ion Ratio Lower Upper

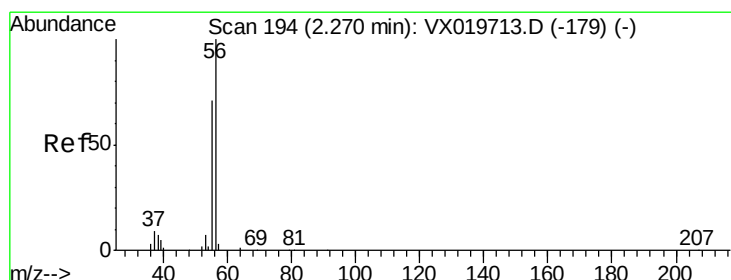
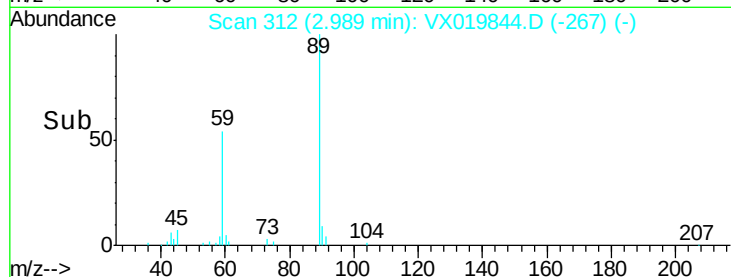
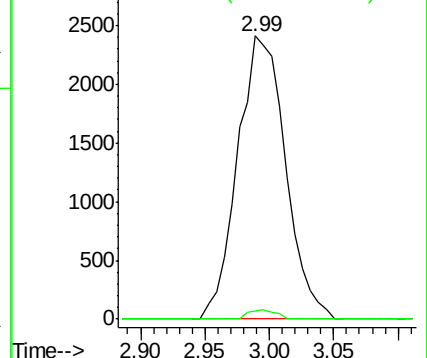
59 100

57 1.9 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 2.035 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019844.D

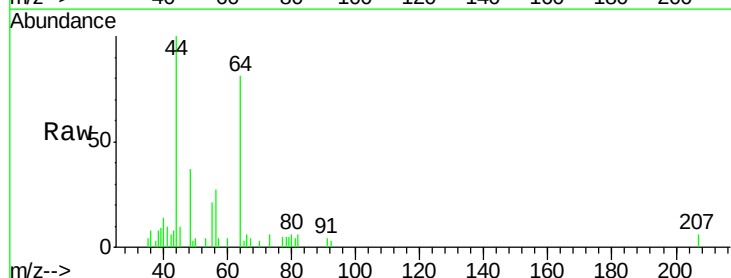
Acq: 10 Dec 2020 23:38

Tgt Ion: 56 Resp: 992

Ion Ratio Lower Upper

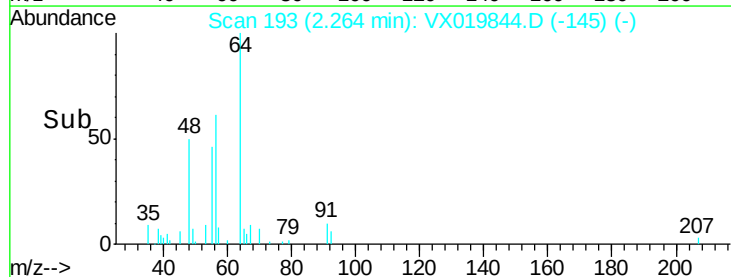
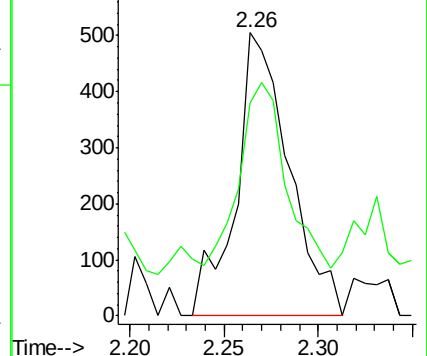
56 100

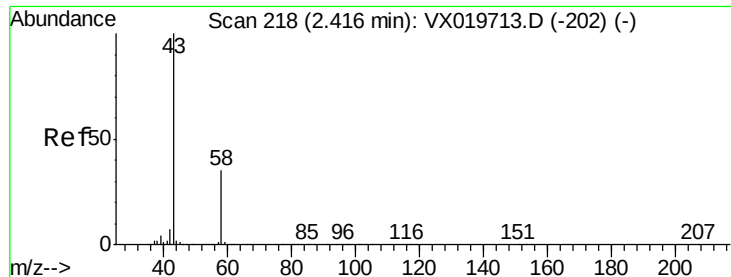
55 81.3 56.4 84.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 23.876 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampled :

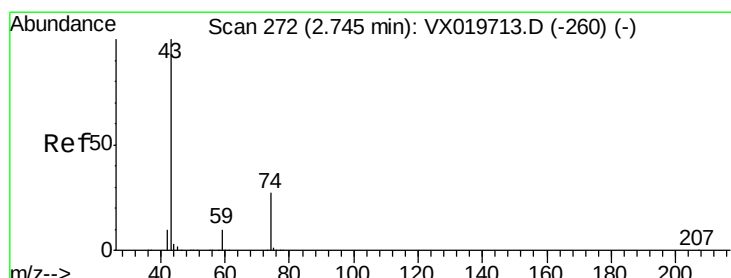
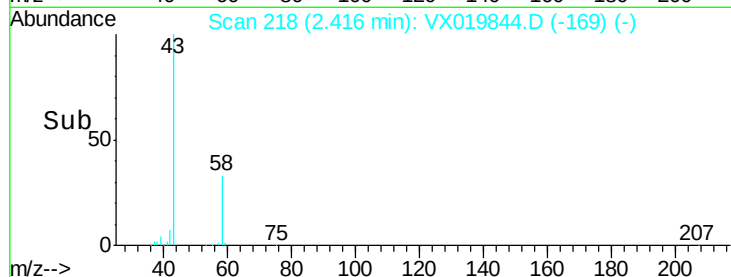
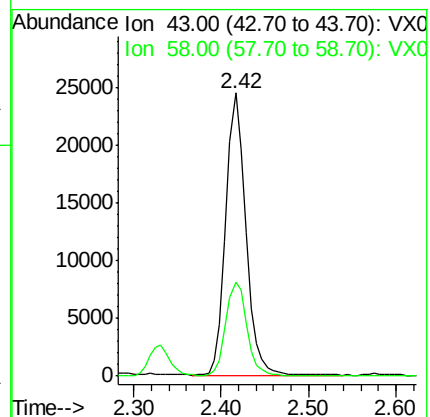
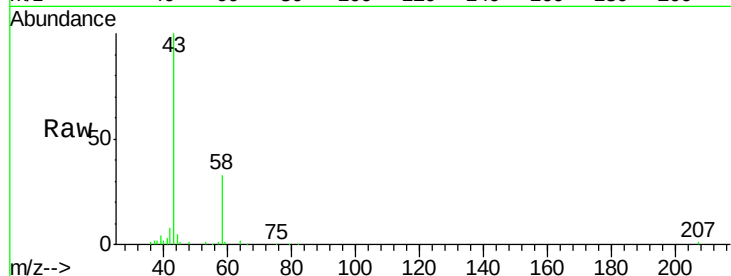
21222

Tgt Ion: 43 Resp: 39641

Ion Ratio Lower Upper

43 100

58 33.0 27.8 41.8



#18

Methyl Acetate

Concen: 1.268 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019844.D

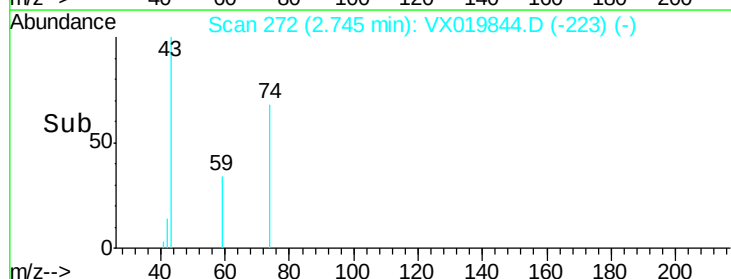
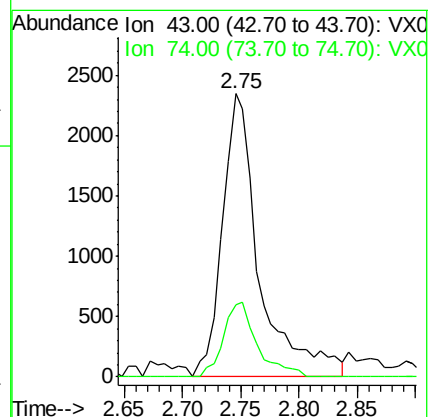
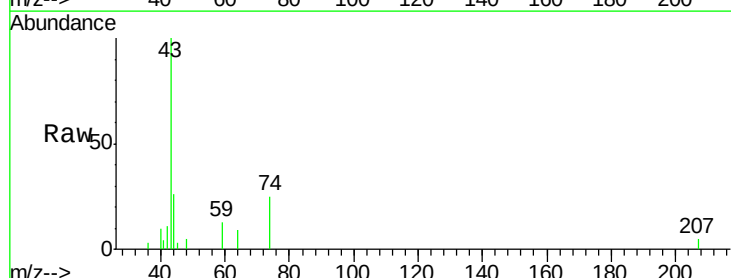
Acq: 10 Dec 2020 23:38

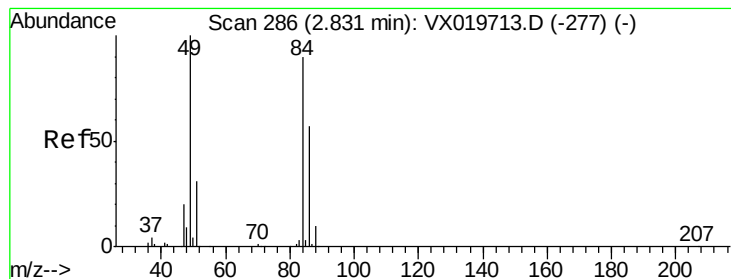
Tgt Ion: 43 Resp: 5152

Ion Ratio Lower Upper

43 100

74 24.2 21.9 32.9





#20

Methylene Chloride

Concen: 7.088 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampled :

21222

Tgt Ion: 84 Resp: 31494

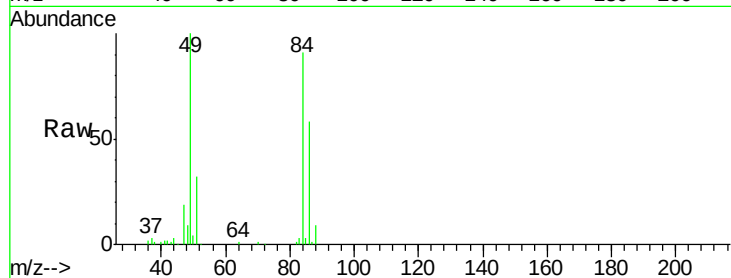
Ion Ratio Lower Upper

84 100

49 110.2 88.6 132.8

51 34.8 27.0 40.6

86 64.0 50.3 75.5

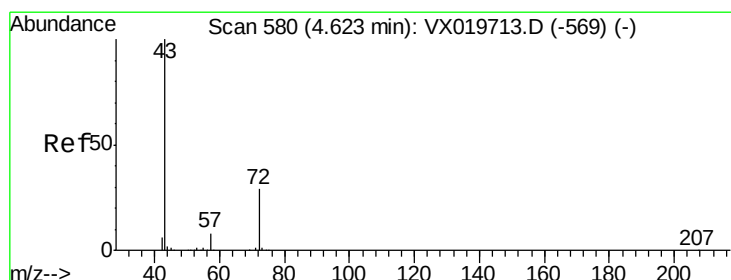
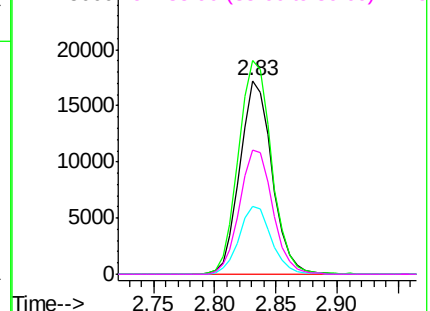
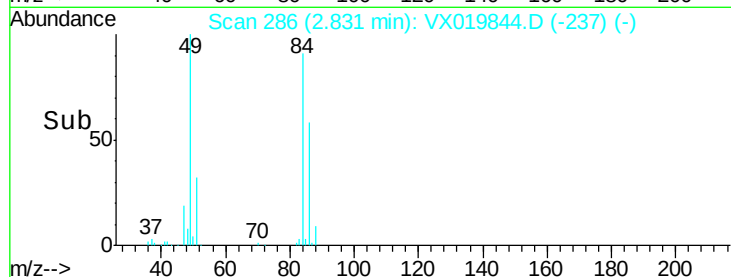


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 1.930 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019844.D

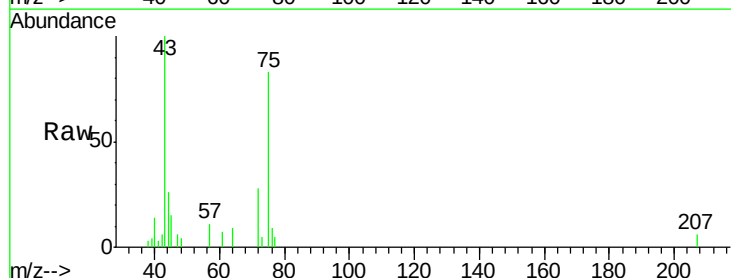
Acq: 10 Dec 2020 23:38

Tgt Ion: 43 Resp: 4924

Ion Ratio Lower Upper

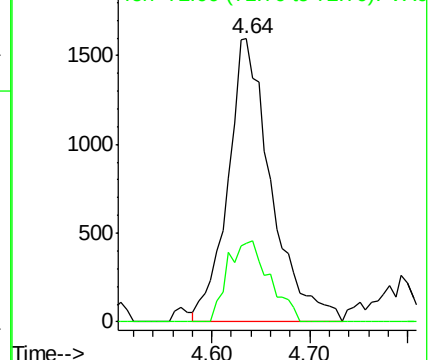
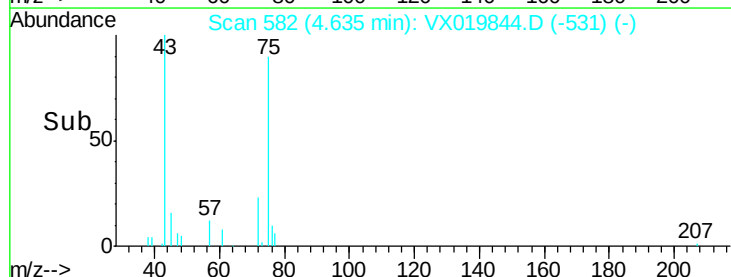
43 100

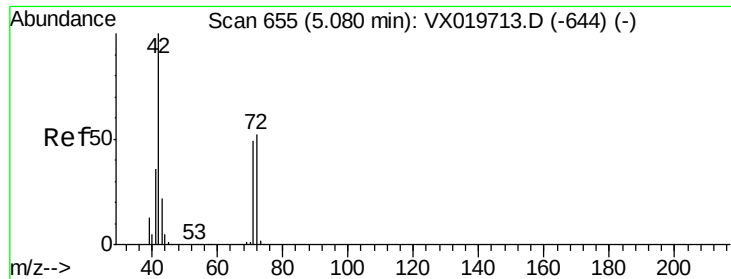
72 27.9 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

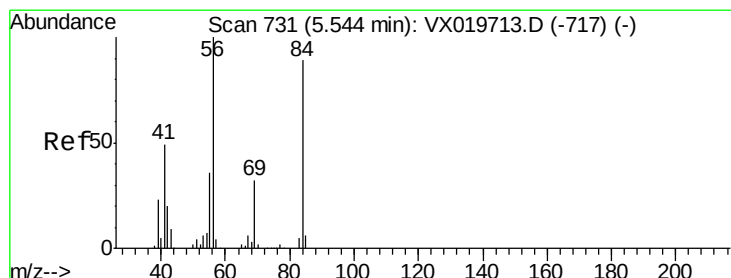
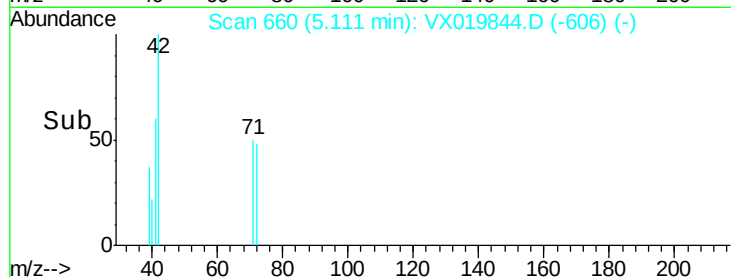
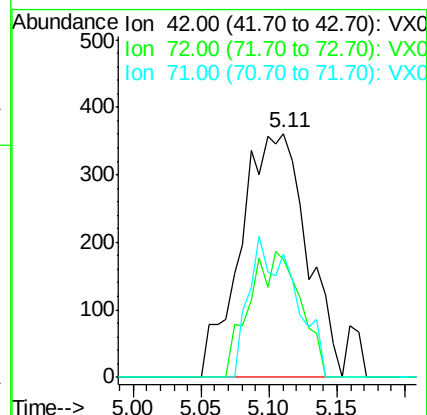
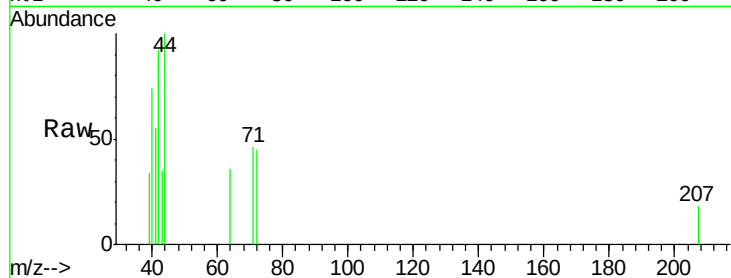




#29
Tetrahydrofuran
Concen: 0.746 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.03 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

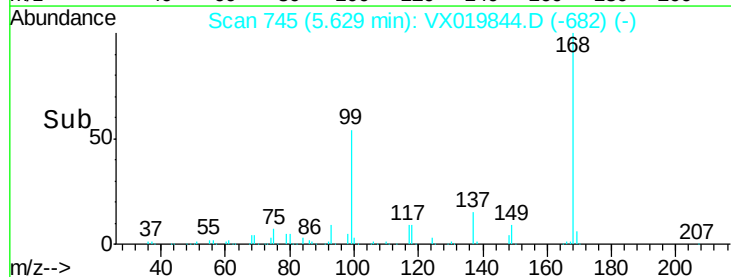
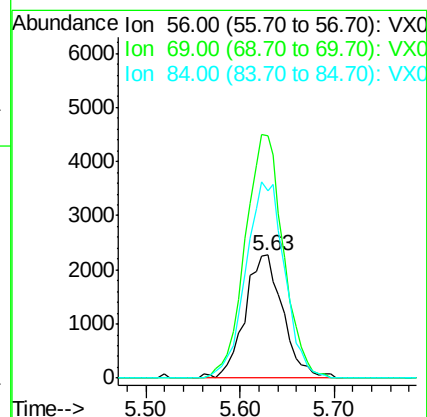
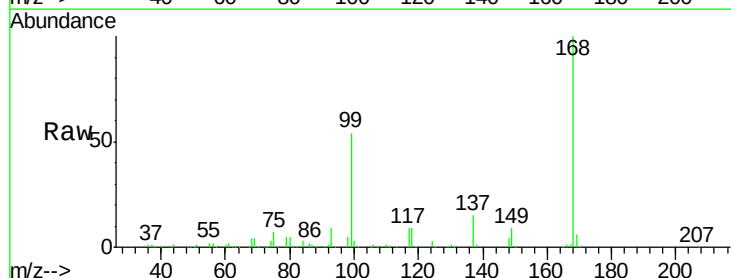
Instrument :
MSVOA_X
ClientSampleId :
21222

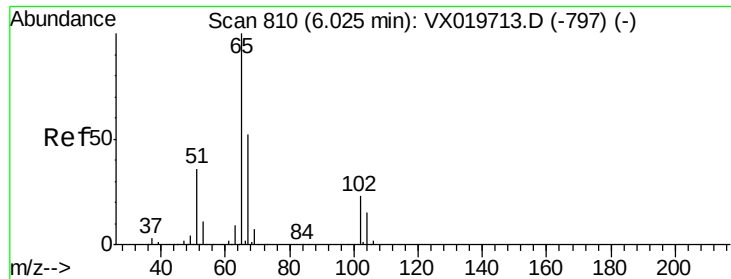
Tgt Ion: 42 Resp: 1226
Ion Ratio Lower Upper
42 100
72 40.0 41.7 62.5#
71 39.5 38.4 57.6



#31
Cyclohexane
Concen: 1.173 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

Tgt Ion: 56 Resp: 6447
Ion Ratio Lower Upper
56 100
69 197.6 25.3 37.9#
84 152.3 71.4 107.0#

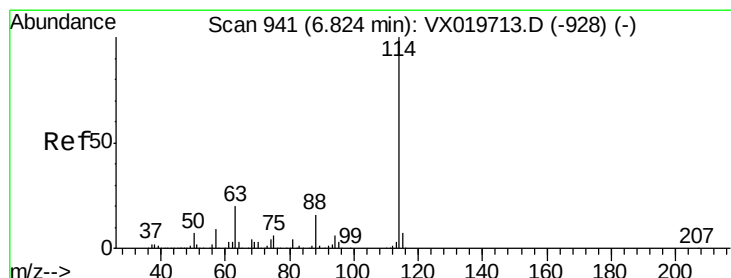
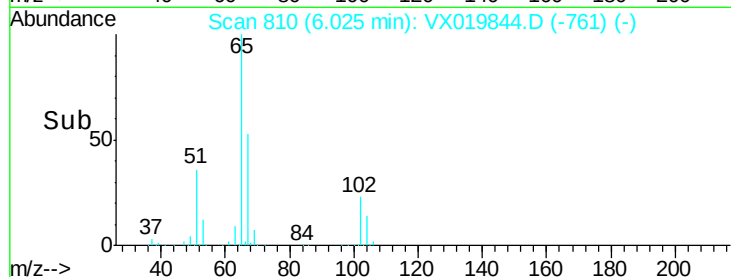
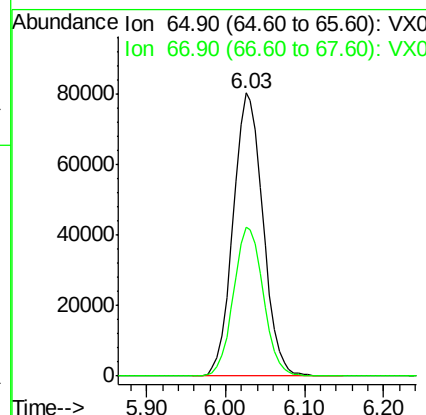
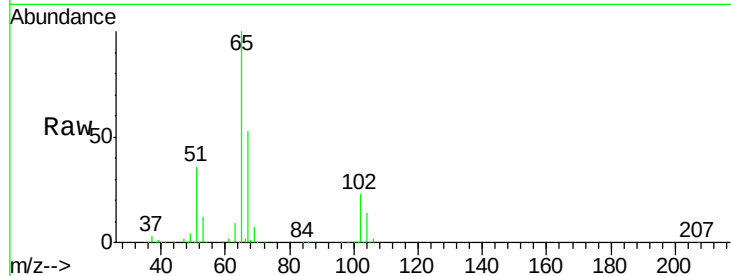




#33
 1,2-Dichloroethane-d4
 Concen: 47.893 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019844.D
 Acq: 10 Dec 2020 23:38

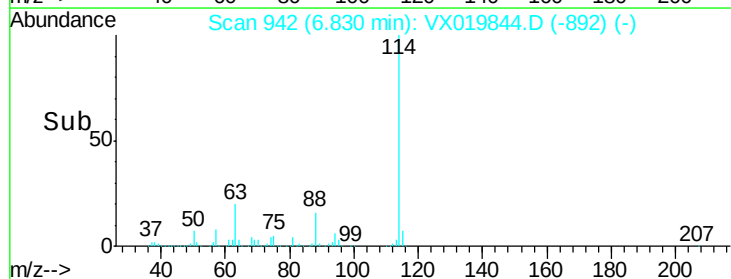
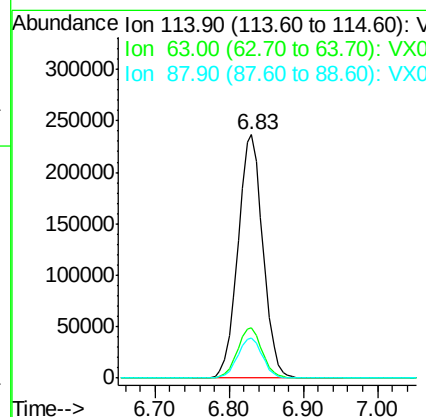
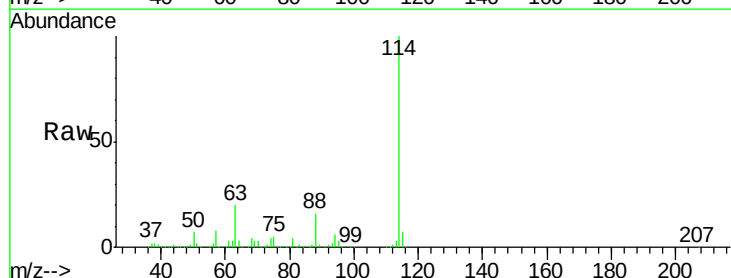
Instrument :
 MSVOA_X
 ClientSampleId :
 21222

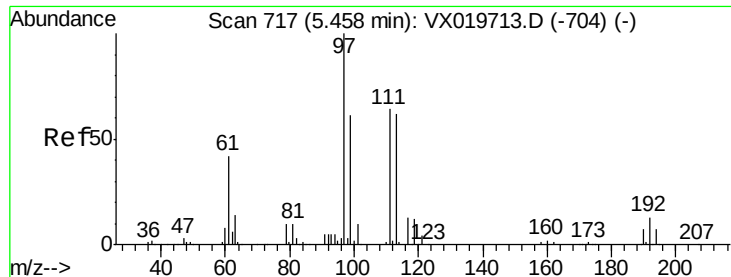
Tgt Ion: 65 Resp: 211554
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019844.D
 Acq: 10 Dec 2020 23:38

Tgt Ion: 114 Resp: 554426
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.335 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampleId :

21222

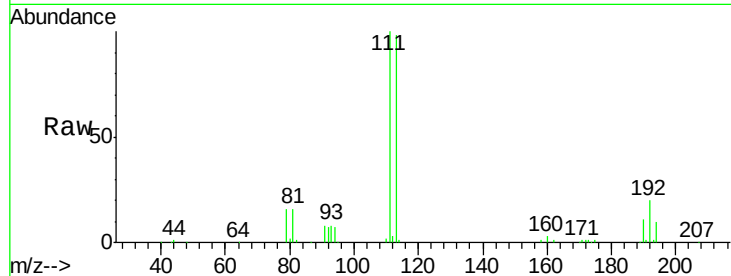
Tgt Ion:113 Resp: 169610

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

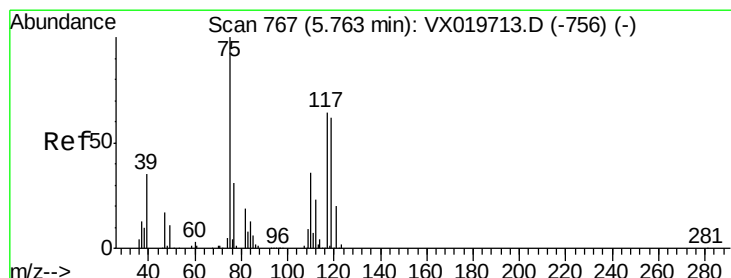
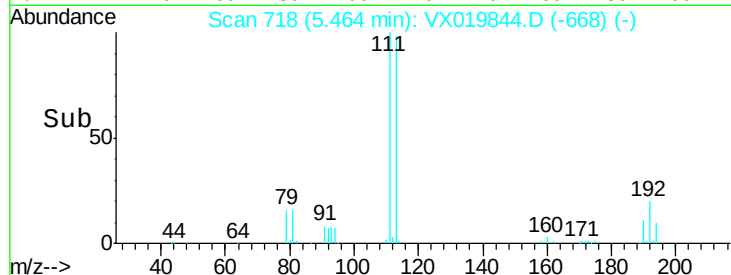
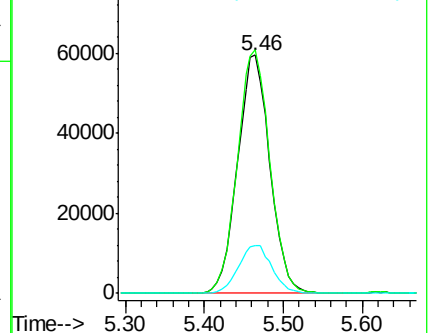
192 20.7 16.7 25.1



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: 5.093 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

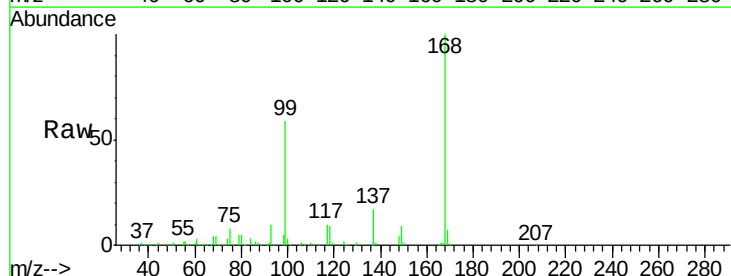
Tgt Ion: 75 Resp: 25515

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

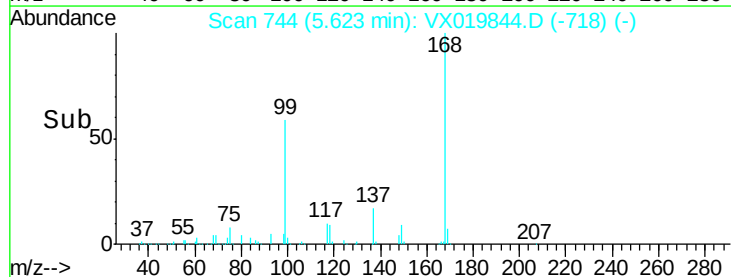
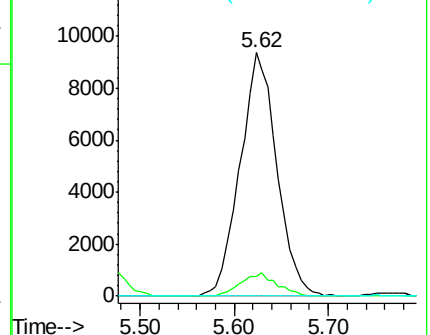
77 0.0 25.3 37.9#

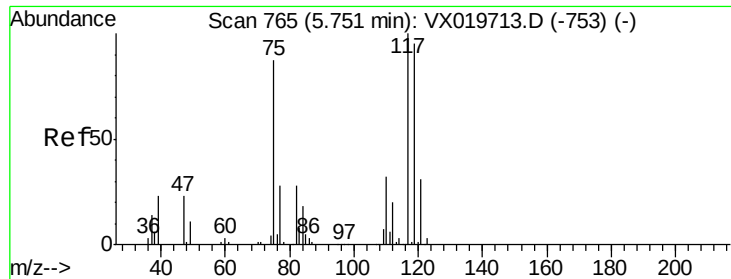


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.668 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampleId :

21222

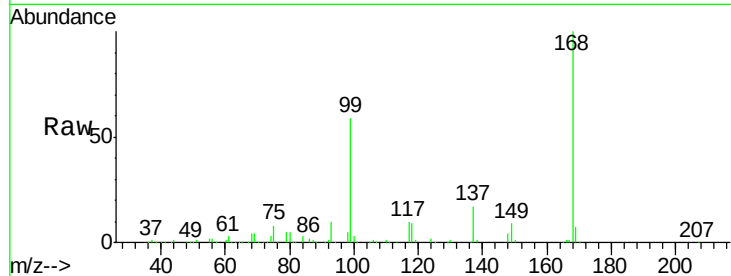
Tgt Ion:117 Resp: 32713

Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

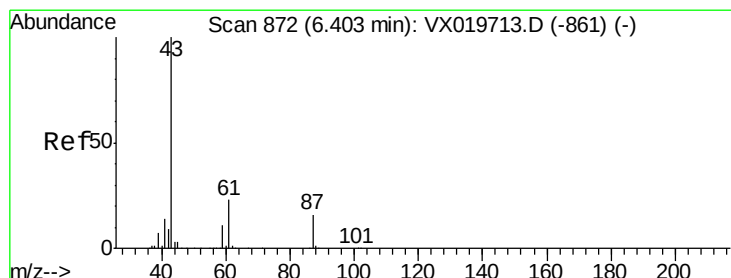
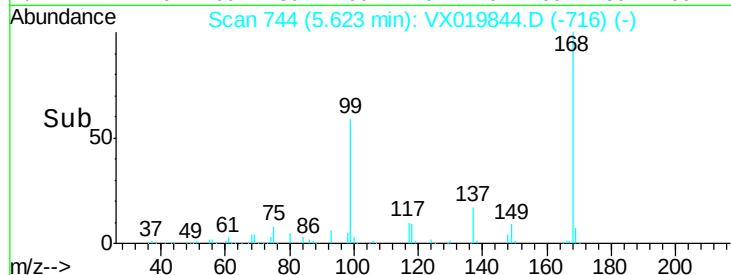
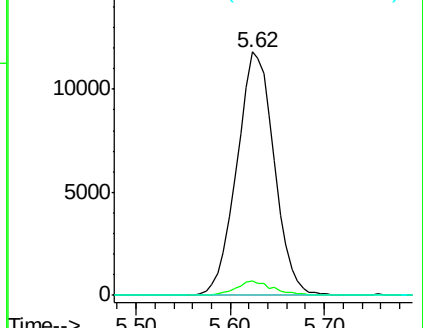
121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 2.972 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

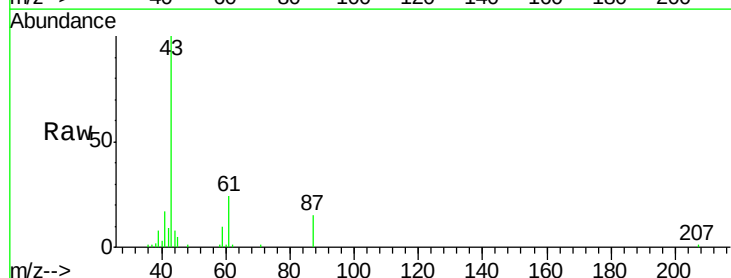
Tgt Ion: 43 Resp: 24444

Ion Ratio Lower Upper

43 100

61 22.2 18.2 27.4

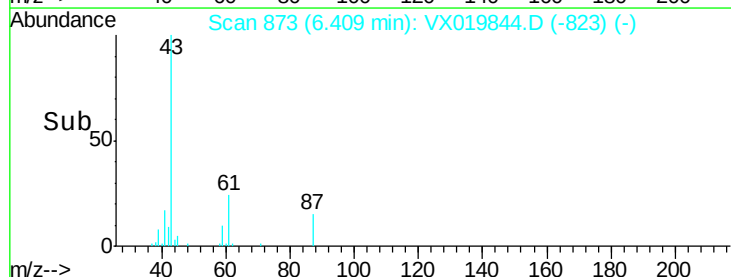
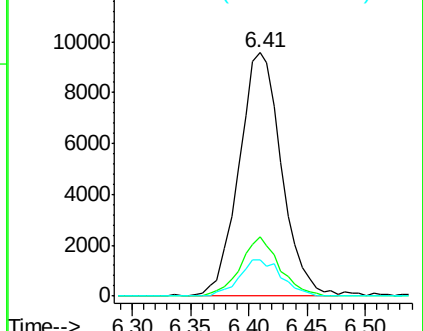
87 14.8 12.5 18.7

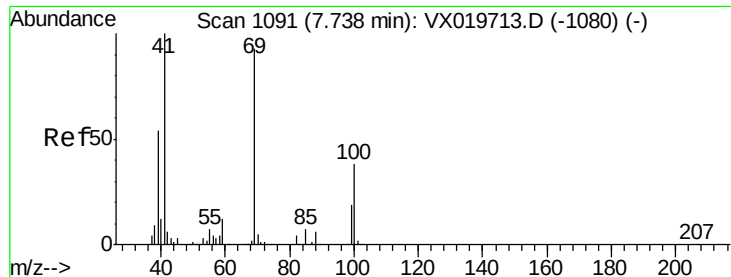


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

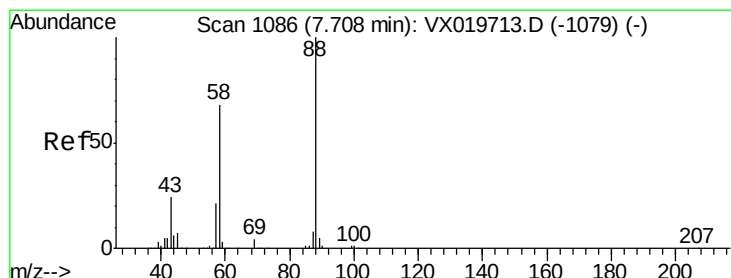
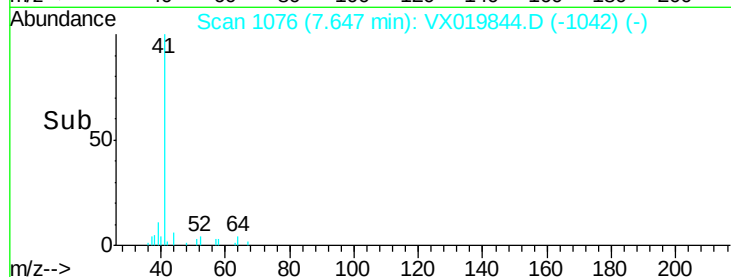
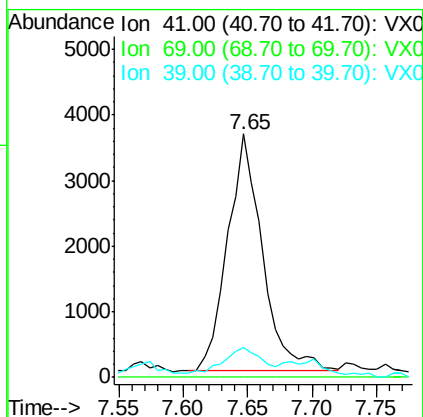
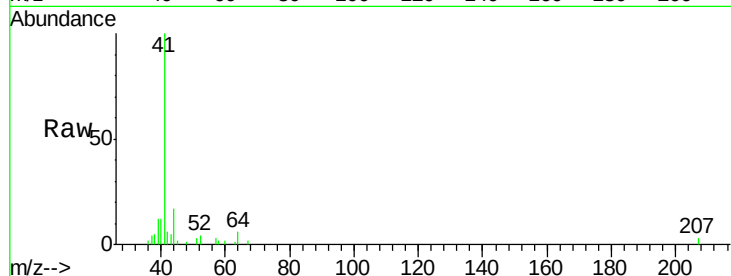




#48
Methyl methacrylate
Concen: 1.668 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

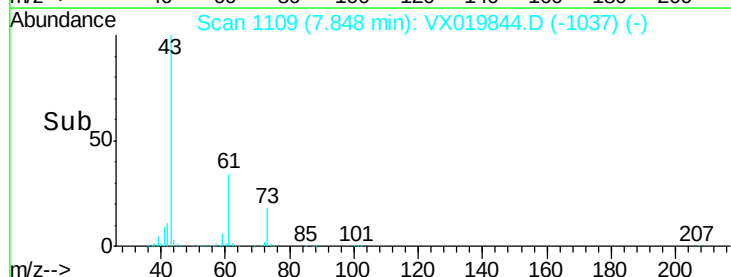
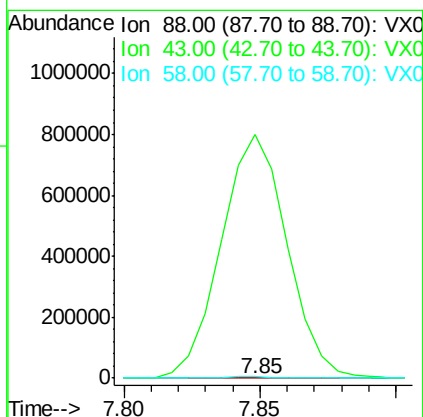
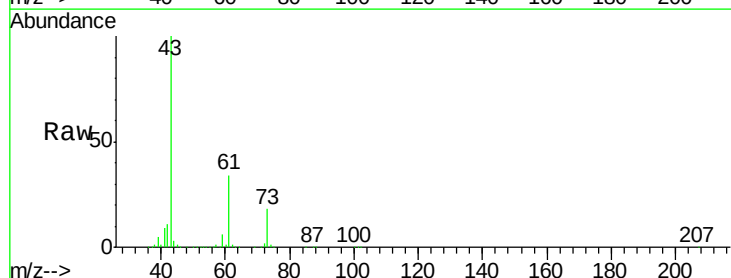
Instrument :
MSVOA_X
ClientSampleId :
21222

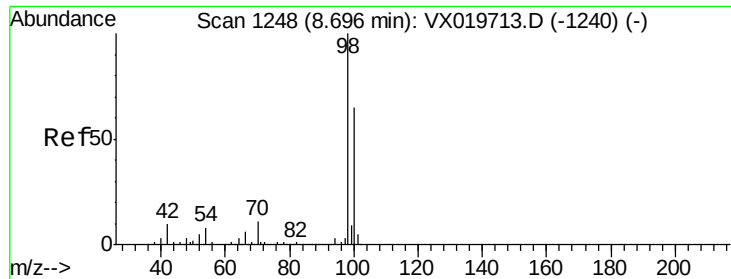
Tgt Ion: 41 Resp: 6746
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.643 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.14 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

Tgt Ion: 88 Resp: 259
Ion Ratio Lower Upper
88 100
43 520995.8 23.2 34.8#
58 2722.0 55.0 82.4#

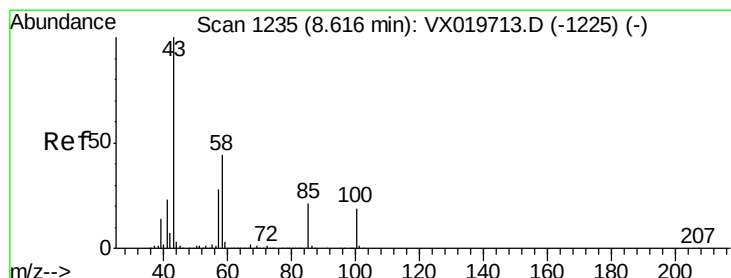
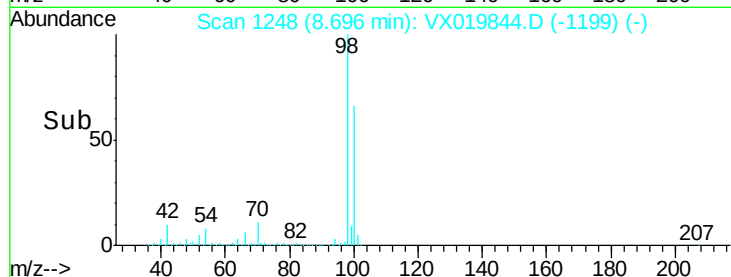
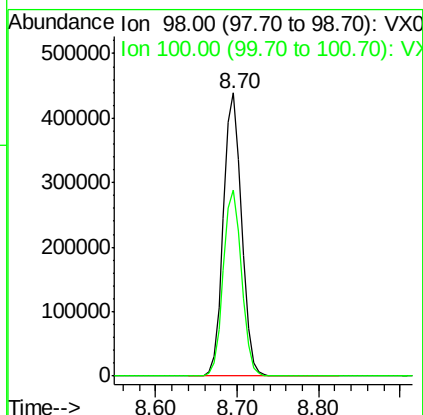
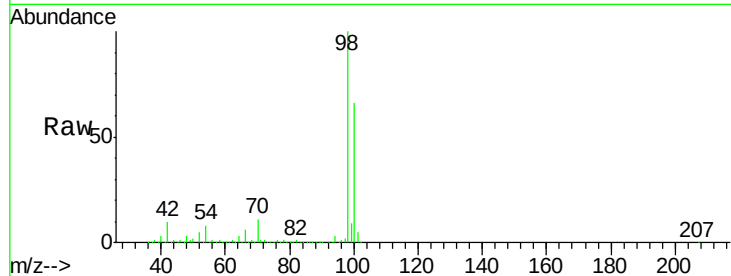




#50
Toluene-d8
Concen: 49.572 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

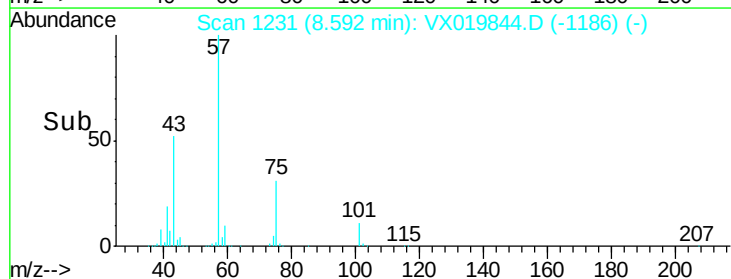
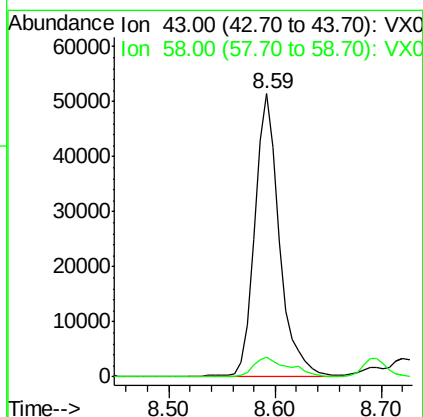
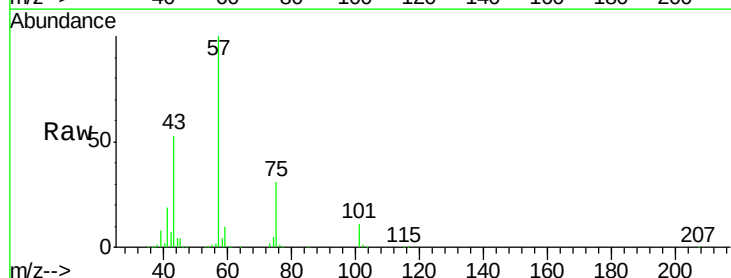
Instrument :
MSVOA_X
ClientSampleId :
21222

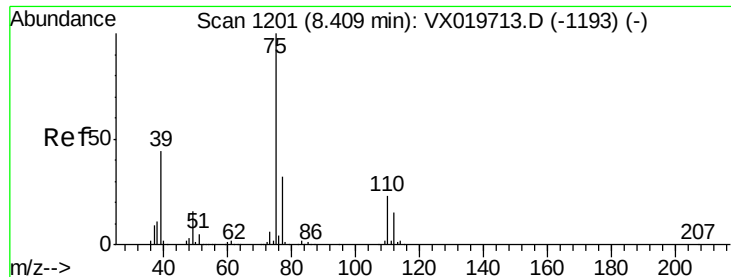
Tgt Ion: 98 Resp: 678120
Ion Ratio Lower Upper
98 100
100 66.3 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 16.524 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

Tgt Ion: 43 Resp: 82965
Ion Ratio Lower Upper
43 100
58 10.0 35.4 53.0#

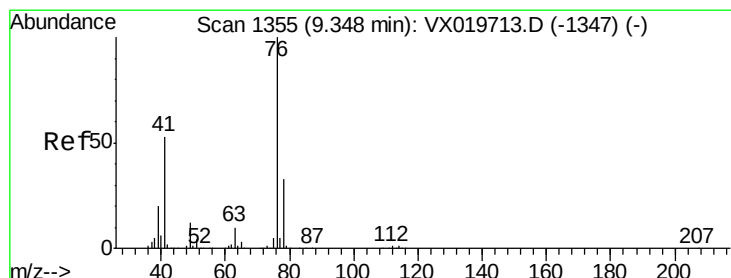
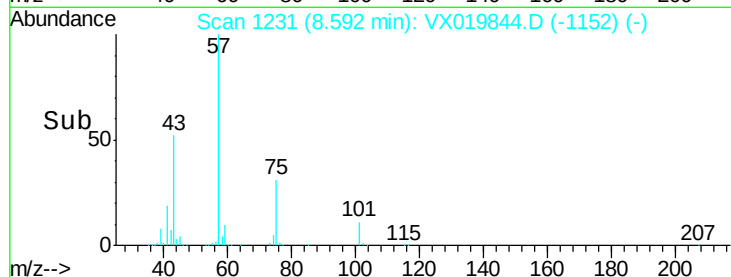
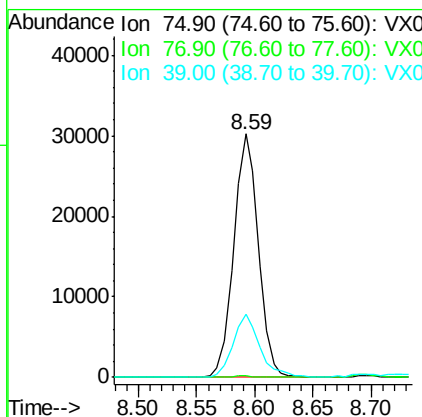
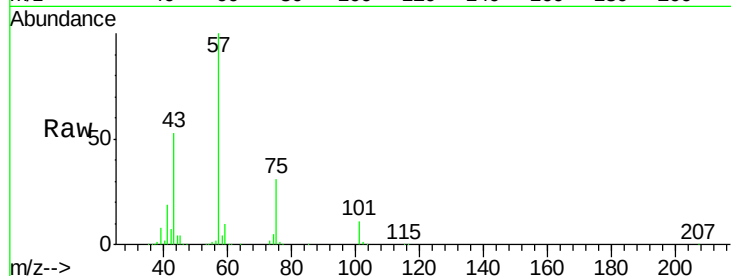




#54
 cis-1,3-Dichloropropene
 Concen: 7.181 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019844.D
 Acq: 10 Dec 2020 23:38

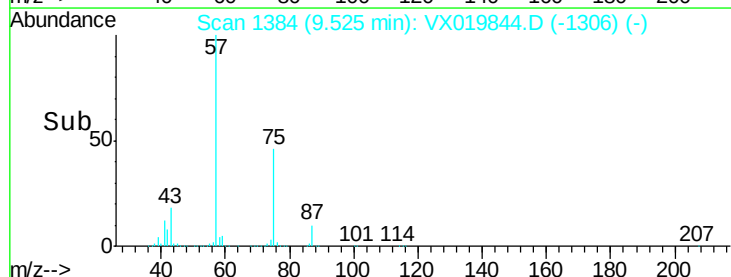
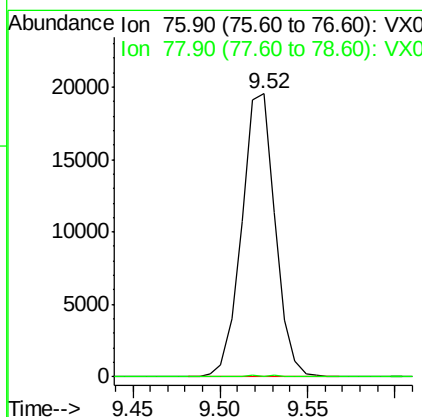
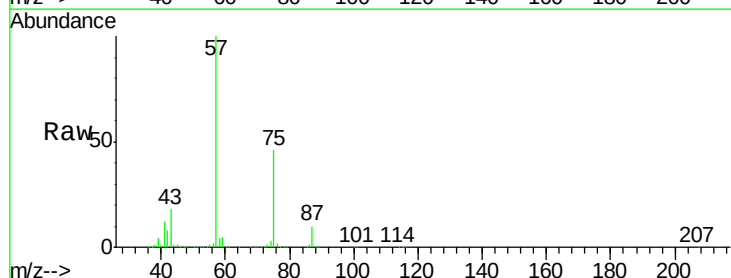
Instrument :
 MSVOA_X
 ClientSampleId :
 21222

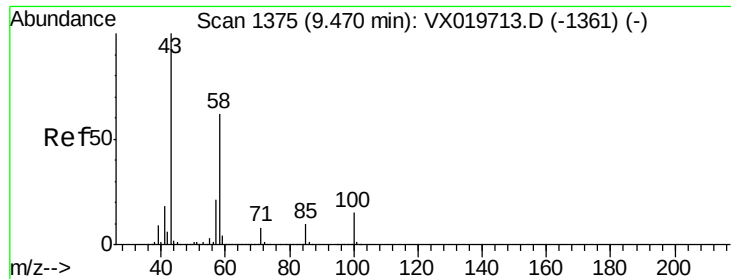
Tgt Ion: 75 Resp: 44371
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.7 38.5#
 39 25.5 35.1 52.7#



#57
 1,3-Dichloropropane
 Concen: 3.949 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019844.D
 Acq: 10 Dec 2020 23:38

Tgt Ion: 76 Resp: 26007
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#

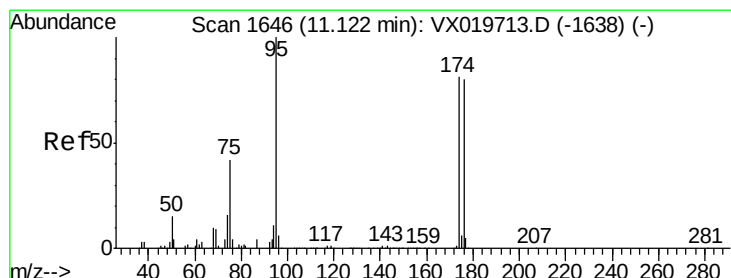
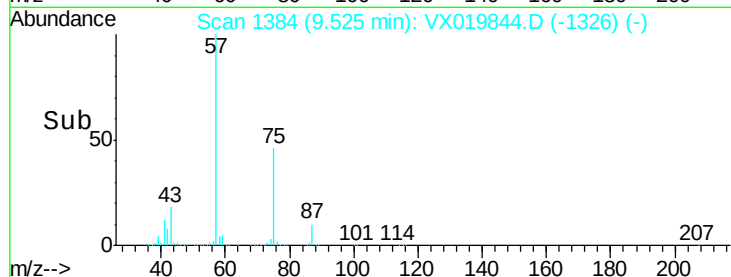
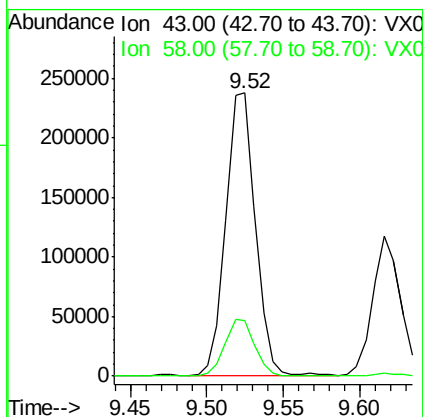
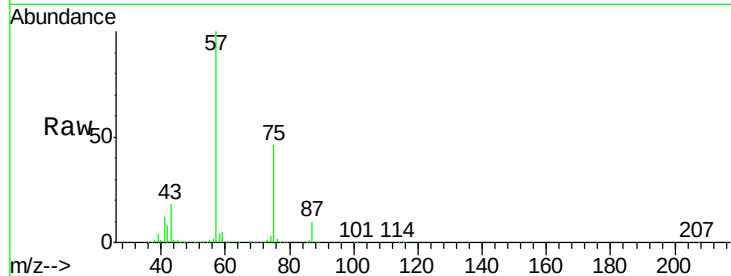




#59
2-Hexanone
Concen: 81.705 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

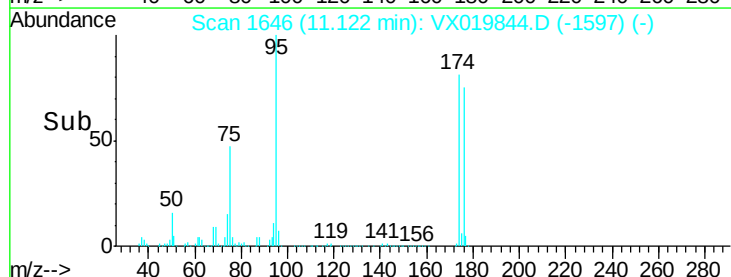
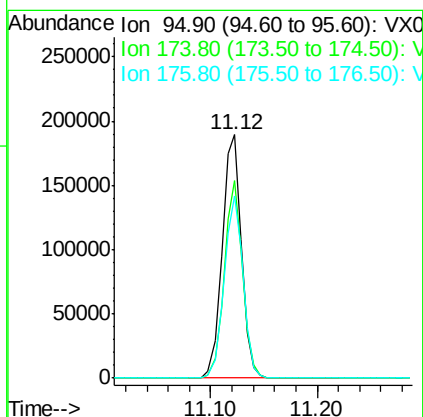
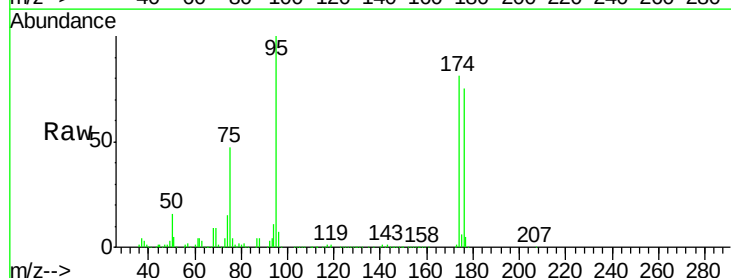
Instrument :
MSVOA_X
ClientSampleId :
21222

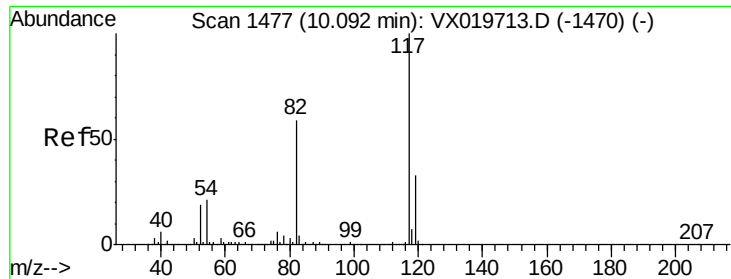
Tgt Ion: 43 Resp: 317992
Ion Ratio Lower Upper
43 100
58 20.4 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 45.637 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

Tgt Ion: 95 Resp: 237618
Ion Ratio Lower Upper
95 100
174 77.1 0.0 154.6
176 74.0 0.0 155.8

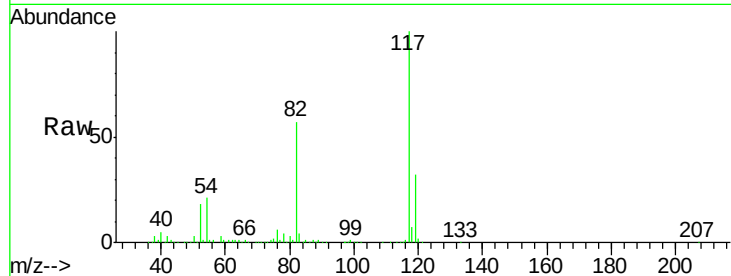




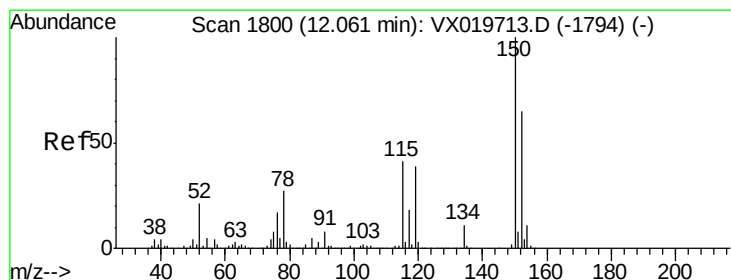
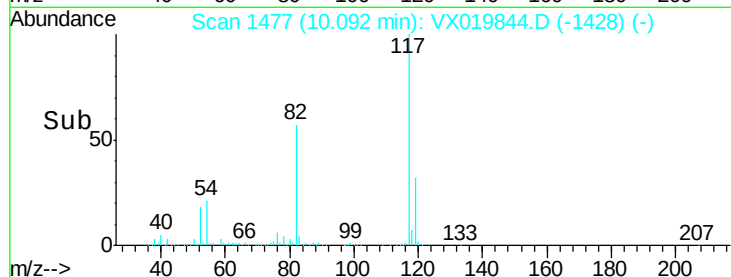
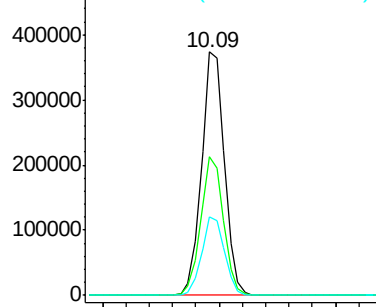
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

Instrument :
MSVOA_X
ClientSampled :
21222

Tgt Ion:117 Resp: 510581
Ion Ratio Lower Upper
117 100
82 57.0 47.4 71.2
119 32.1 26.6 39.8

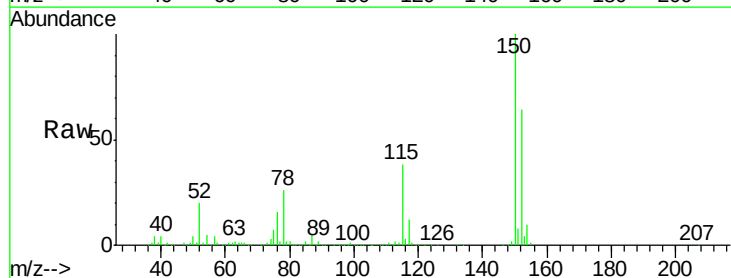


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

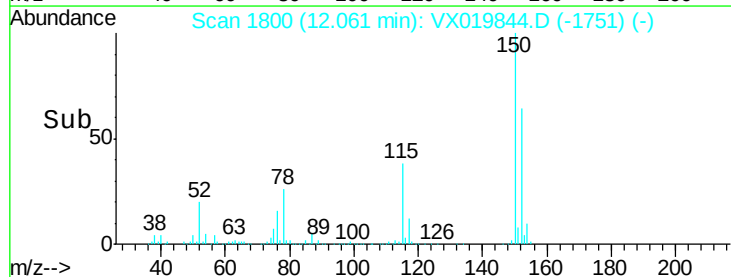
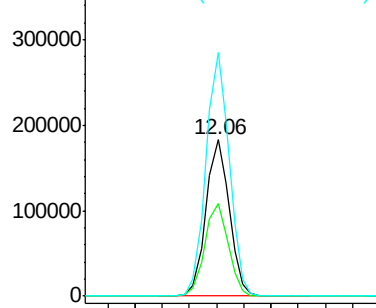


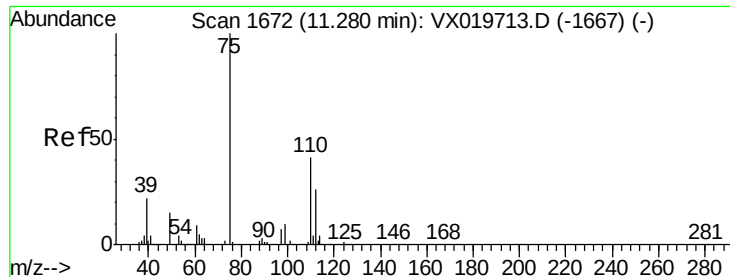
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019844.D
Acq: 10 Dec 2020 23:38

Tgt Ion:152 Resp: 218636
Ion Ratio Lower Upper
152 100
115 60.0 41.1 123.3
150 155.7 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: 23.208 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampleId :

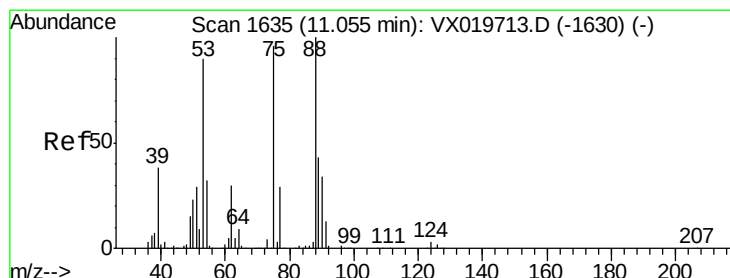
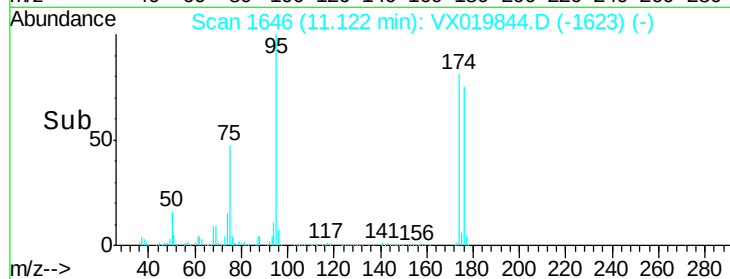
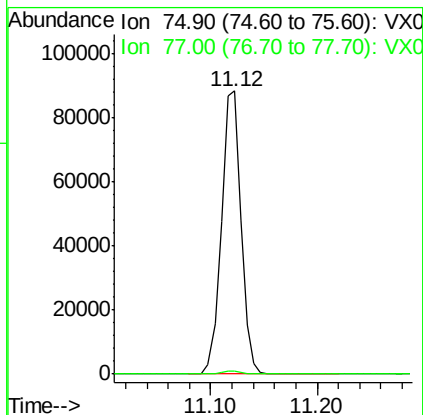
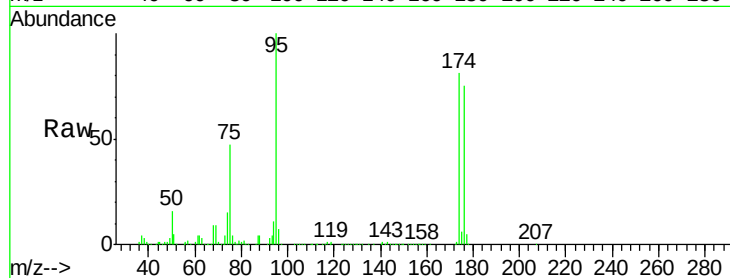
21222

Tgt Ion: 75 Resp: 113802

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.089 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

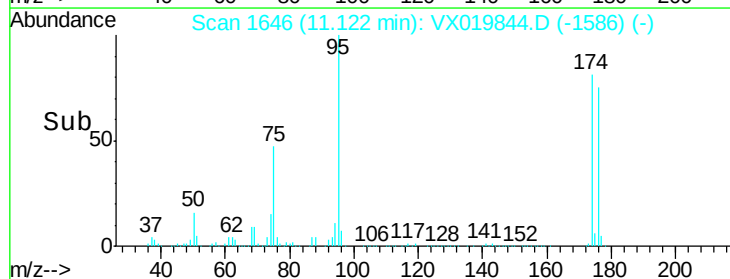
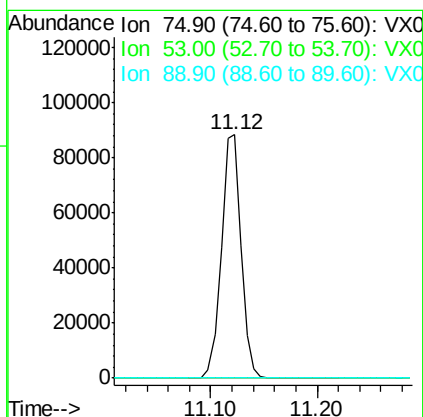
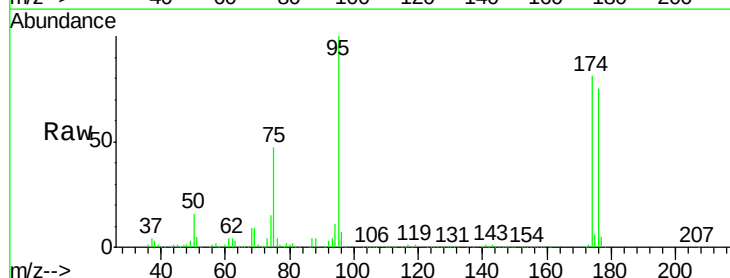
Tgt Ion: 75 Resp: 113802

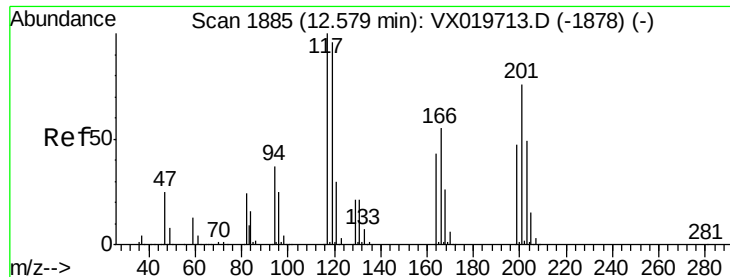
Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#





#90

Hexachloroethane

Concen: 0.318 ug/l

RT: 12.45 min Scan# 1864

Delta R.T. -0.13 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

Instrument :

MSVOA_X

ClientSampleId :

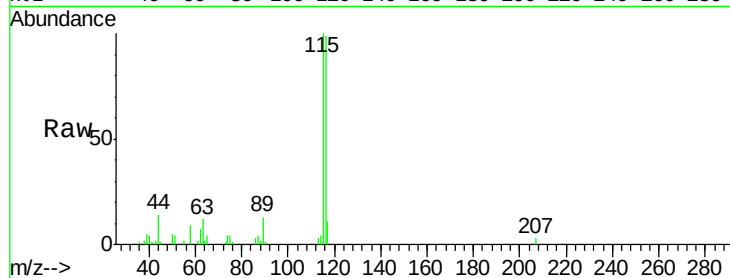
21222

Tgt Ion:117 Resp: 711

Ion Ratio Lower Upper

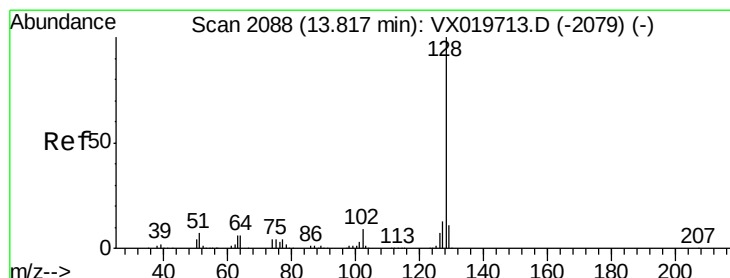
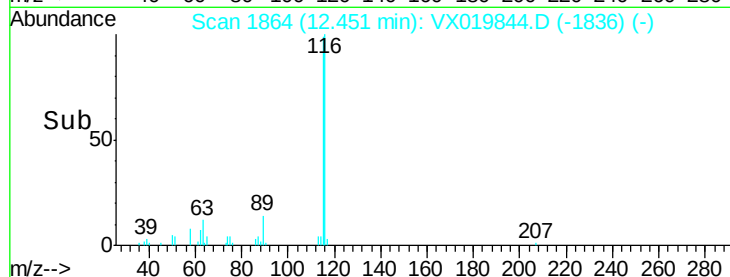
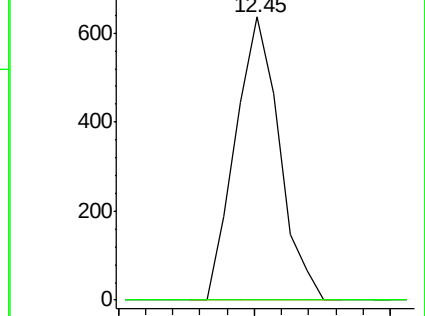
117 100

201 0.0 40.4 121.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.417 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019844.D

Acq: 10 Dec 2020 23:38

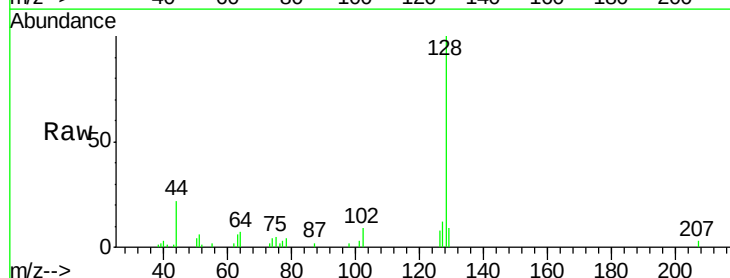
Tgt Ion:128 Resp: 6021

Ion Ratio Lower Upper

128 100

127 10.9 10.3 15.5

129 11.3 8.8 13.2



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

