

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016018.D
 Acq On : 01 May 2020 17:47
 Operator : JC/SP
 Sample : L2469-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 02 07:01:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 28 17:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	279152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	455526	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	445823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	231964	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	178031	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
35) Dibromofluoromethane	5.47	113	136711	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	8.70	98	562170	52.91	ug/l	0.00
Spiked Amount			Recovery	=	105.82%	
62) 4-Bromofluorobenzene	11.12	95	224776	53.94	ug/l	0.00
Spiked Amount			Recovery	=	107.88%	

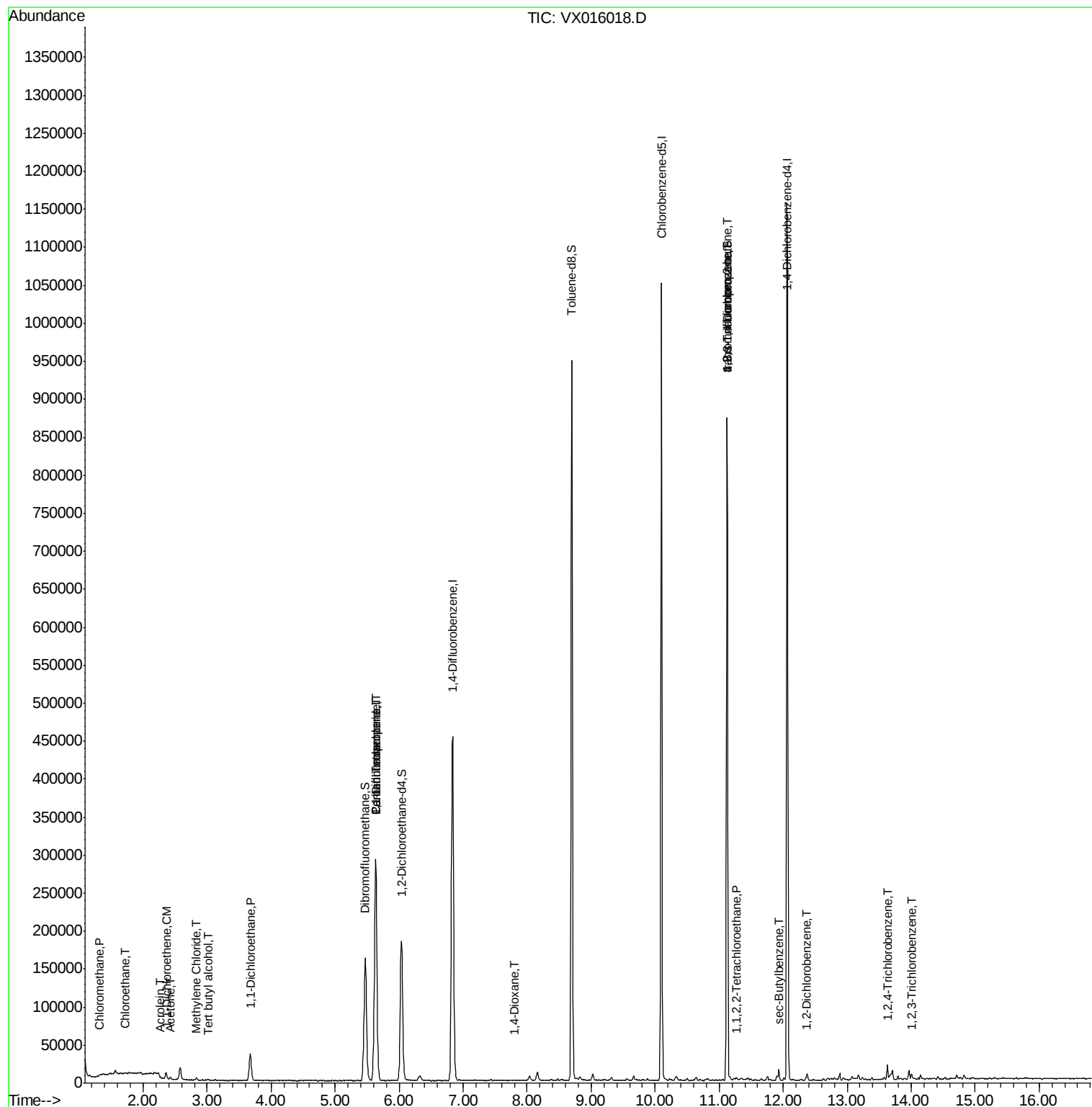
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1208	0.399	ug/l	98
6) Chloroethane	1.72	64	521	0.228	ug/l #	30
11) Tert butyl alcohol	3.02	59	1332	1.503	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	2706	1.013	ug/l	97
13) Acrolein	2.28	56	307	1.379	ug/l	97
16) Acetone	2.42	43	2819	1.806	ug/l	98
20) Methylene Chloride	2.84	84	763	0.247	ug/l #	69
24) 1,1-Dichloroethane	3.67	63	40227	7.627	ug/l	99
36) 1,1-Dichloropropene	5.63	75	21663	4.993	ug/l #	49
38) Carbon Tetrachloride	5.64	117	26977	5.887	ug/l #	16
49) 1,4-Dioxane	7.81	88	25	0.279	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.26	83	102	3.727	ug/l #	24
76) 1,2,3-Trichloropropane	11.12	75	116883	24.013	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	116883	56.748	ug/l #	10
85) sec-Butylbenzene	11.93	105	7533	0.488	ug/l	82
91) 1,2-Dichlorobenzene	12.38	146	1894	0.267	ug/l	98
93) 1,2,4-Trichlorobenzene	13.63	180	4193	0.789	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.01	180	1258	0.246	ug/l #	59

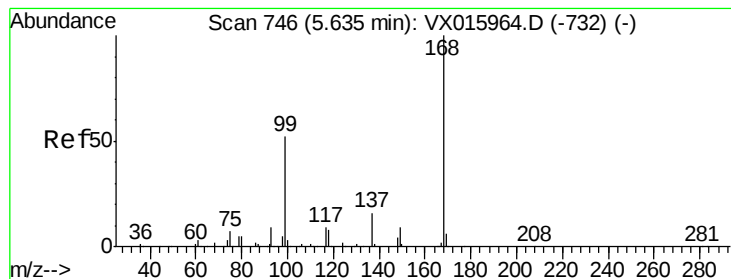
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

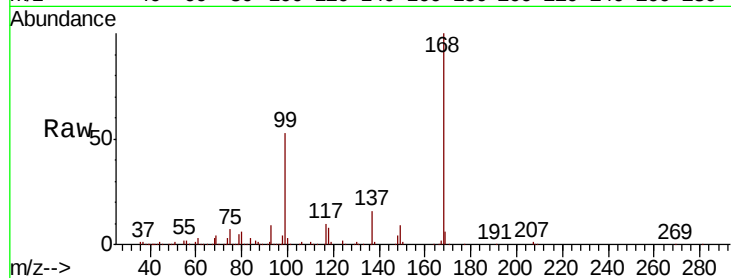
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 279152

Ion Ratio Lower Upper

168 100

99 53.0 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

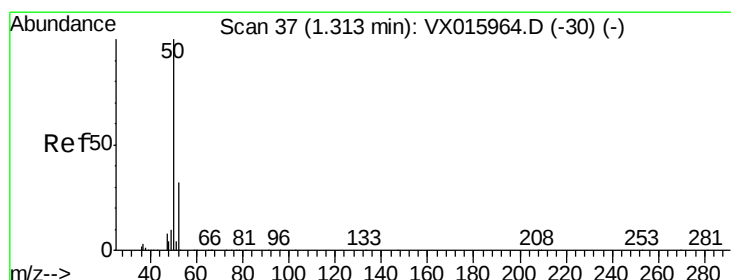
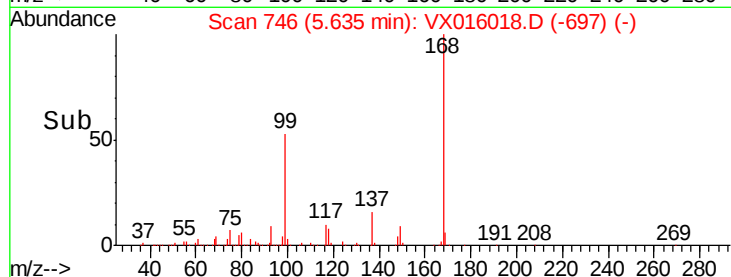
20000

0

5.64

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.399 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016018.D

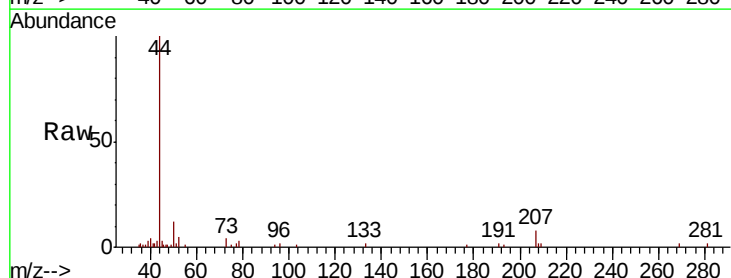
Acq: 01 May 2020 17:47

Tgt Ion: 50 Resp: 1208

Ion Ratio Lower Upper

50 100

52 33.3 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

400

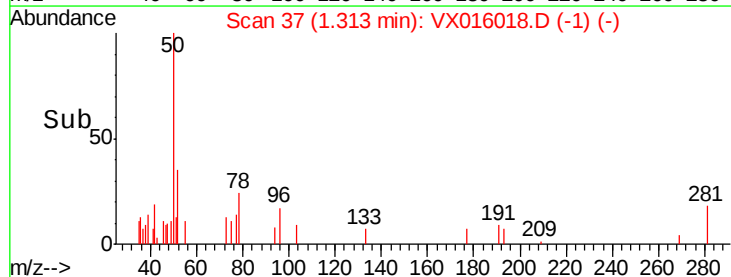
200

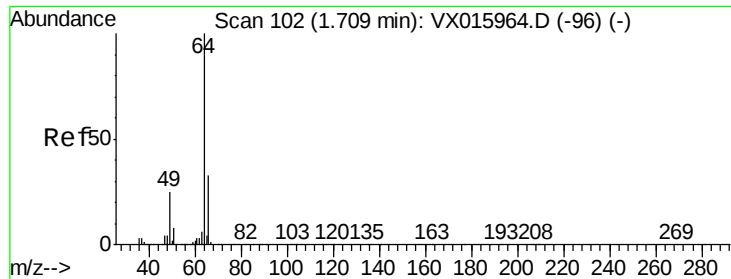
0

1.31

1.25 1.30 1.35 1.40

Time-->





#6

Chloroethane

Concen: 0.228 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

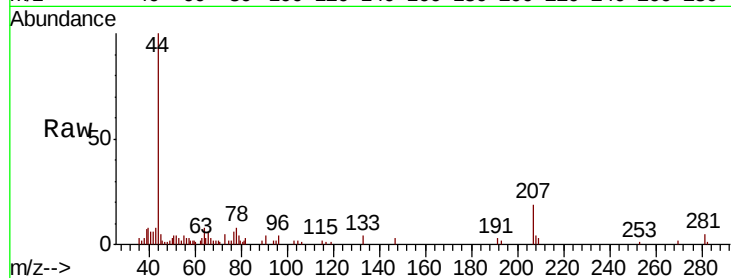
ClientSampleId :

Tot Ion: 64 Resp: 521

Ion Ratio Lower Upper

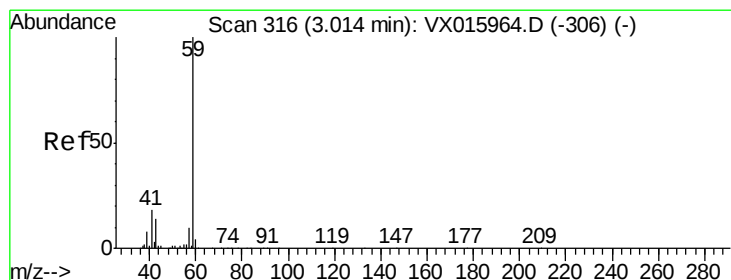
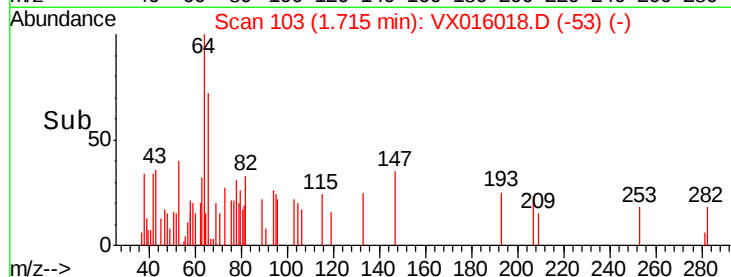
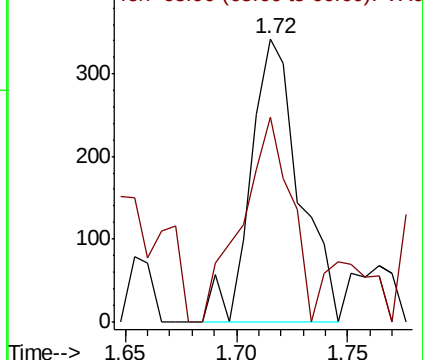
64 100

66 72.0 26.2 39.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 1.503 ug/l

RT: 3.02 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX016018.D

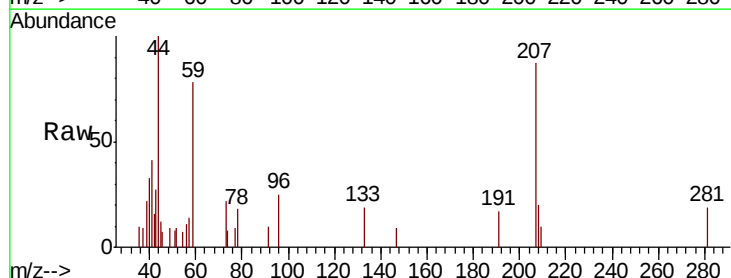
Acq: 01 May 2020 17:47

Tgt Ion: 59 Resp: 1332

Ion Ratio Lower Upper

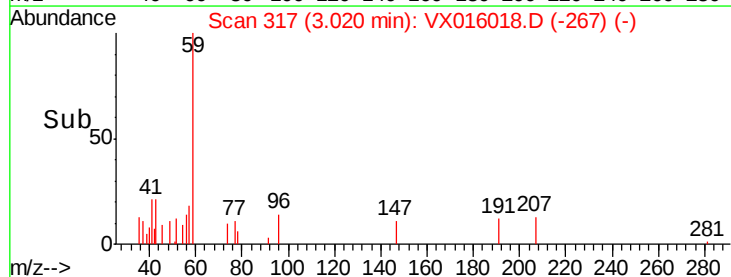
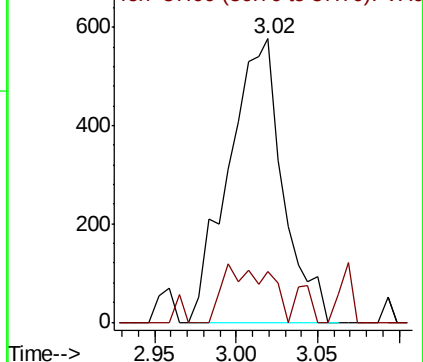
59 100

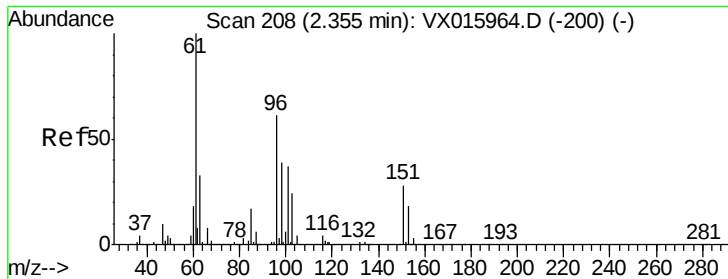
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.013 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

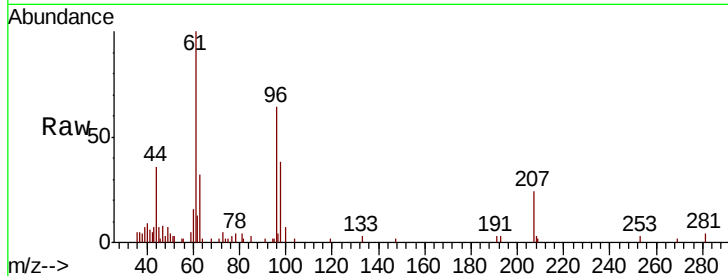
Tot Ion: 96 Resp: 2706

Ion Ratio Lower Upper

96 100

61 159.5 131.0 196.4

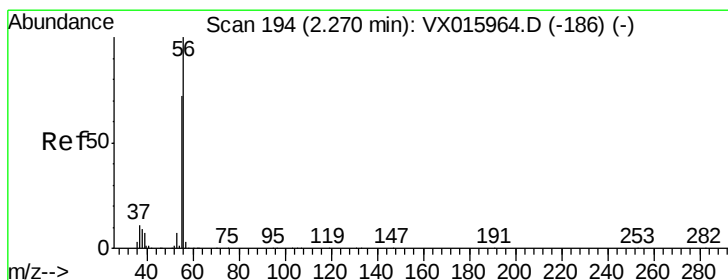
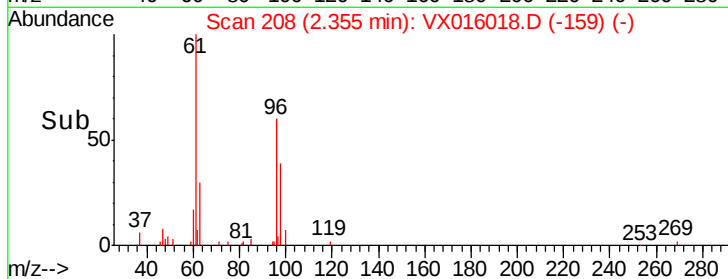
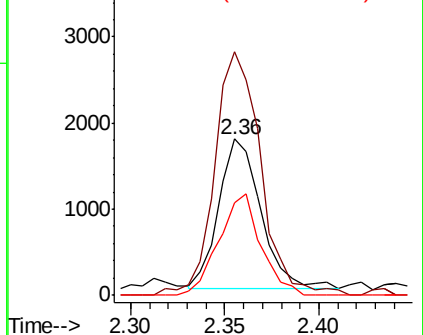
98 61.8 50.7 76.1



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



#13

Acrolein

Concen: 1.379 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016018.D

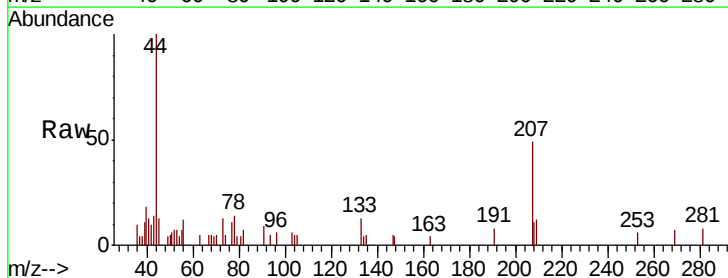
Acq: 01 May 2020 17:47

Tgt Ion: 56 Resp: 307

Ion Ratio Lower Upper

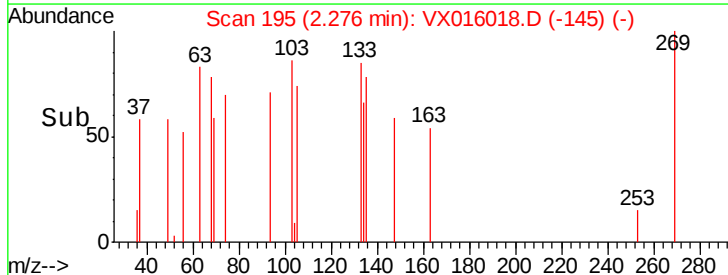
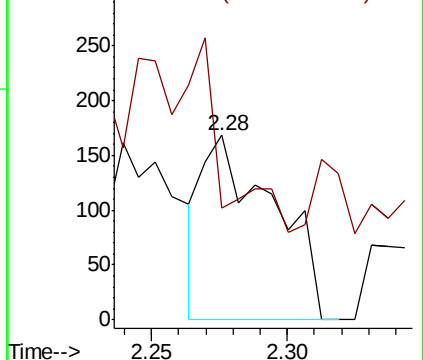
56 100

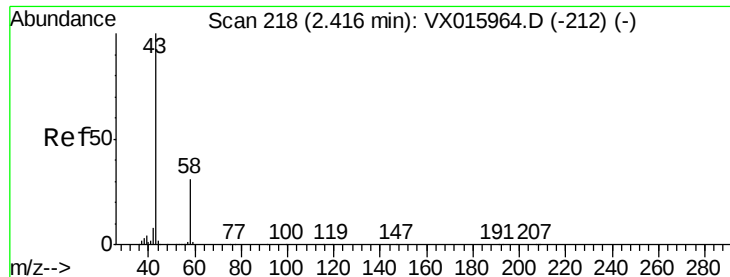
55 68.7 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.806 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

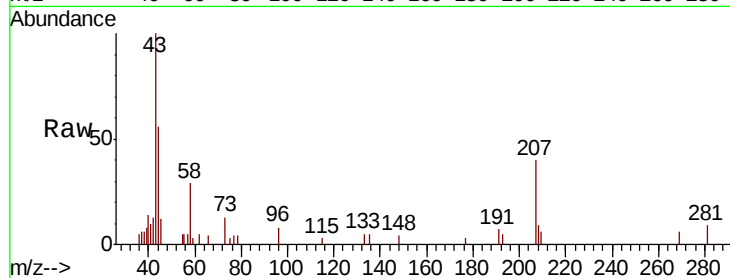
ClientSampleId :

Tot Ion: 43 Resp: 2819

Ion Ratio Lower Upper

43 100

58 30.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

2000

1500

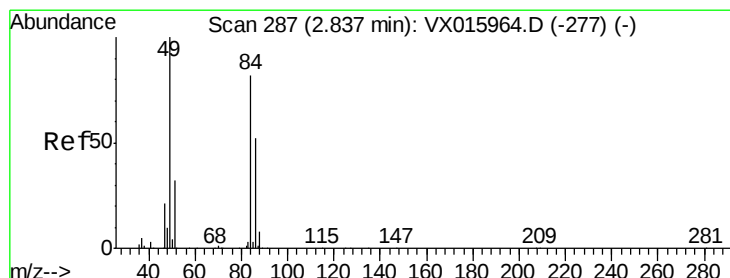
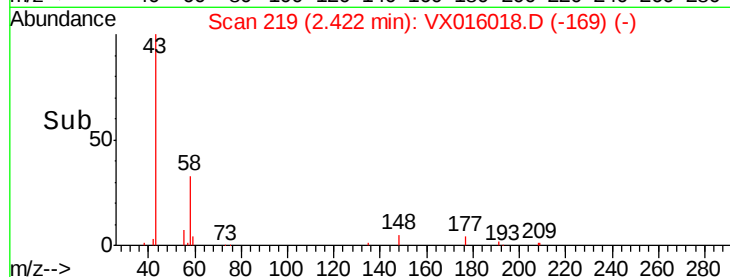
1000

500

0

2.35 2.40 2.45 2.50

Time-->



#20

Methylene Chloride

Concen: 0.247 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Tgt Ion: 84 Resp: 763

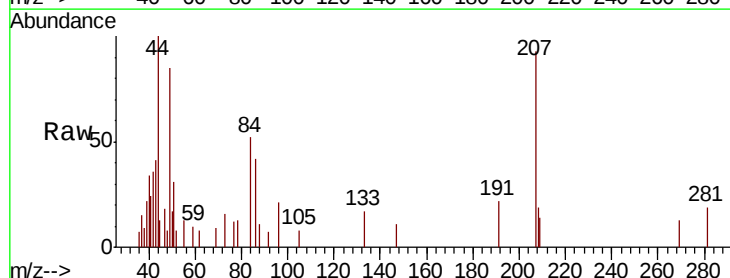
Ion Ratio Lower Upper

84 100

49 162.0 97.9 146.9#

51 58.8 31.2 46.8#

86 79.8 50.7 76.1#



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

800

600

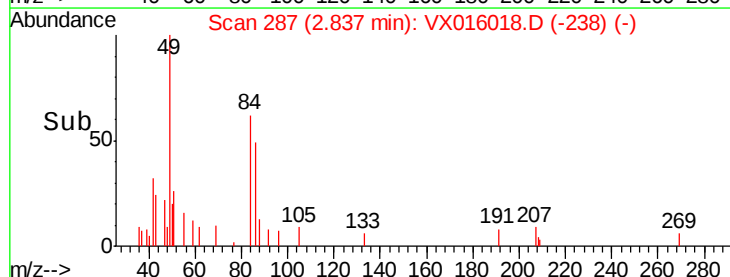
400

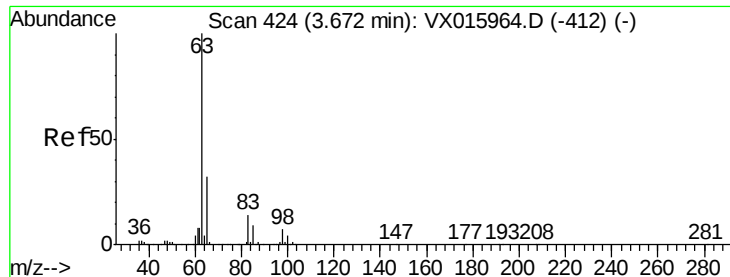
200

0

2.80 2.85 2.90

Time-->





#24

1,1-Dichloroethane

Concen: 7.627 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

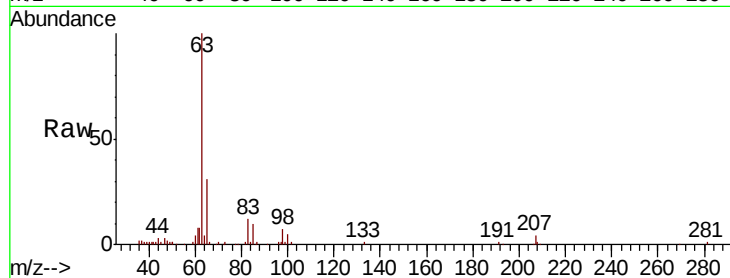
Tot Ion: 63 Resp: 40227

Ion Ratio Lower Upper

63 100

98 7.1 3.6 10.8

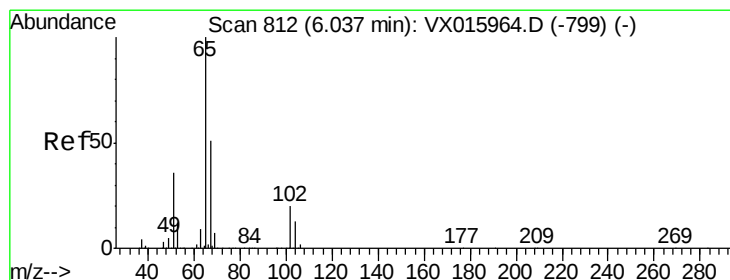
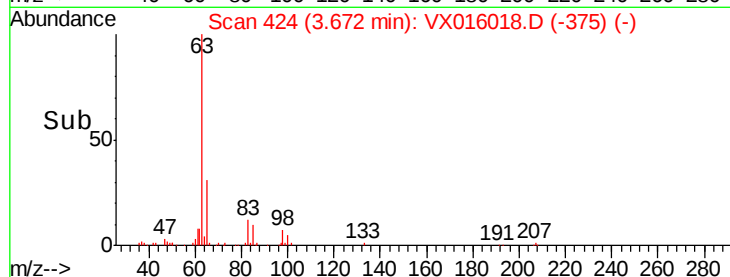
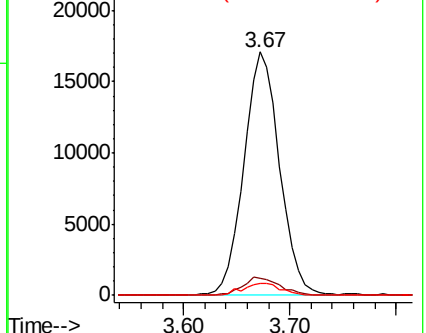
100 5.1 2.2 6.6



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



#33

1,2-Dichloroethane-d4

Concen: 48.778 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX016018.D

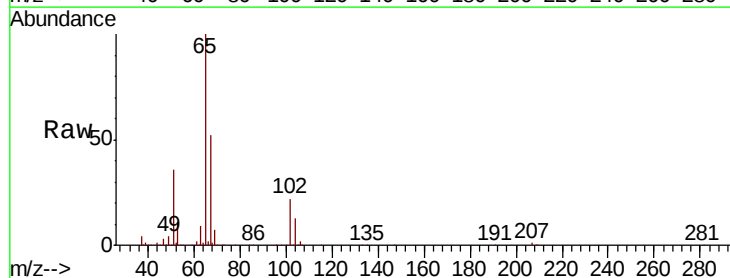
Acq: 01 May 2020 17:47

Tgt Ion: 65 Resp: 178031

Ion Ratio Lower Upper

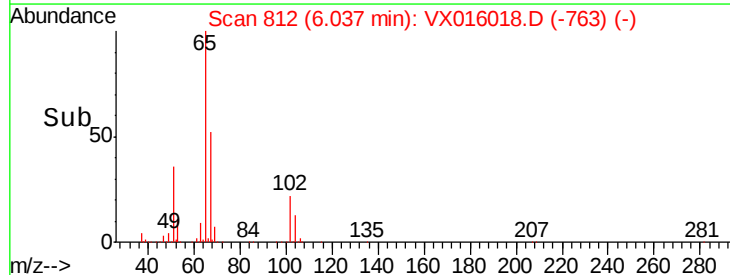
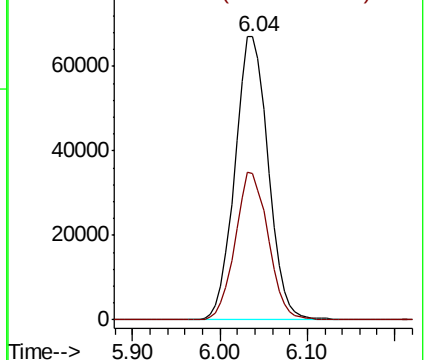
65 100

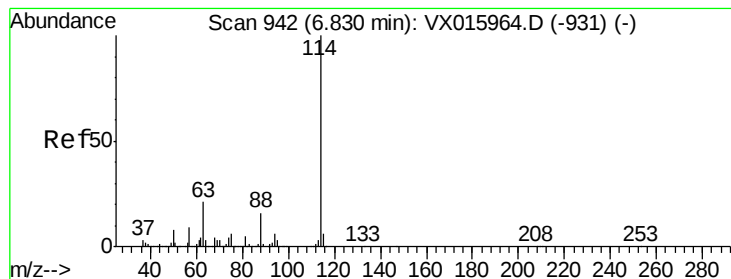
67 51.8 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampled :

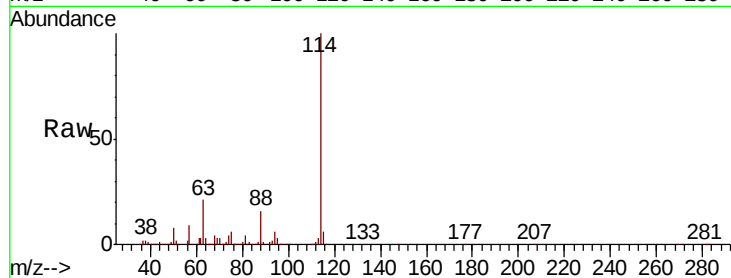
Tot Ion:114 Resp: 45526

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.2

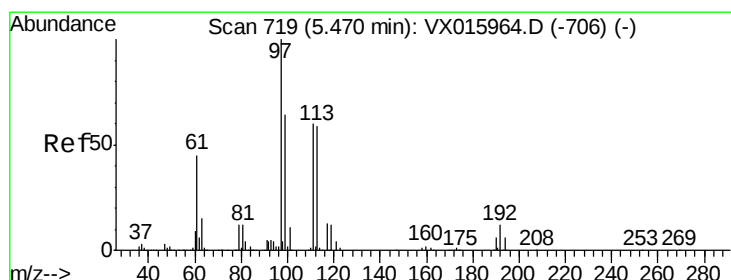
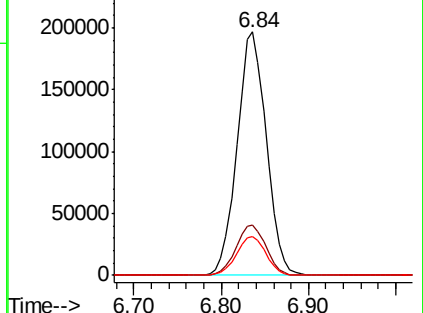
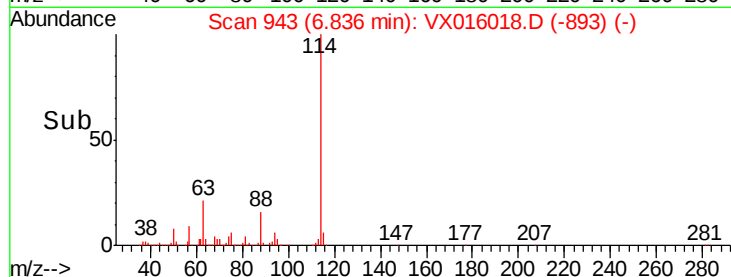
88 15.7 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.111 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

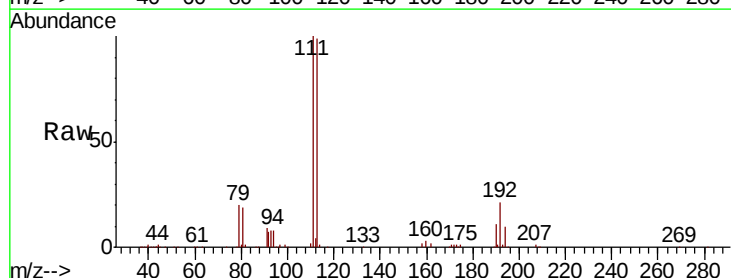
Tgt Ion:113 Resp: 136711

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

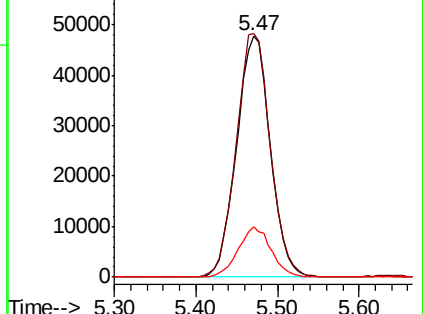
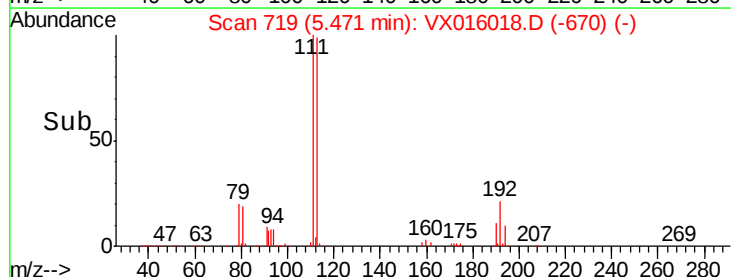
192 20.4 16.8 25.2

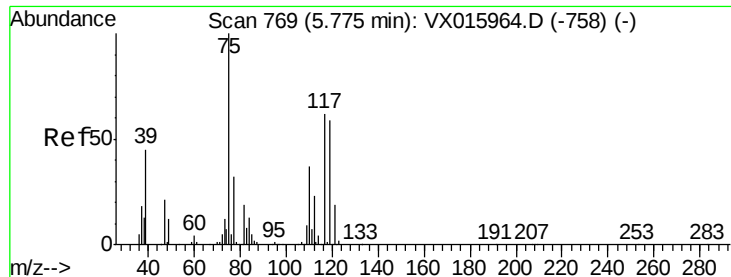


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.993 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.15 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

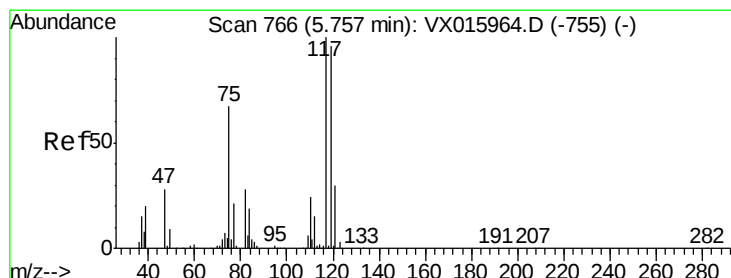
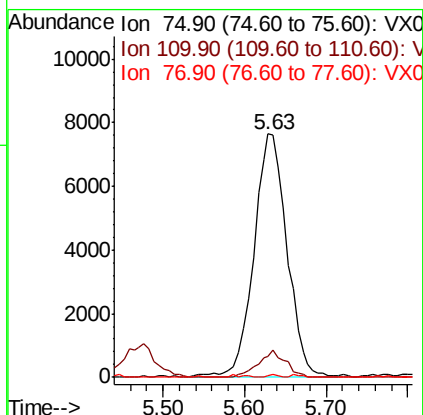
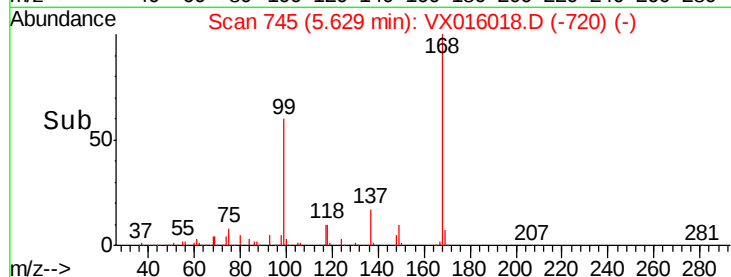
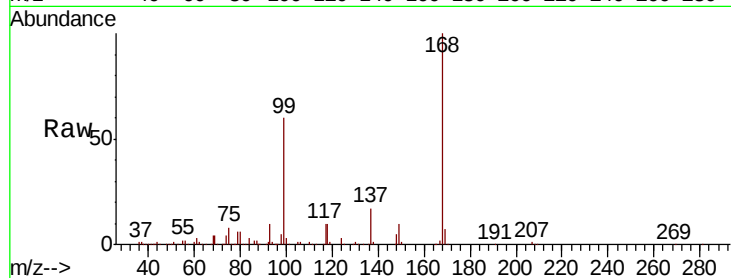
Tot Ion: 75 Resp: 21663

Ion Ratio Lower Upper

75 100

110 8.9 17.9 53.7#

77 0.4 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.887 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

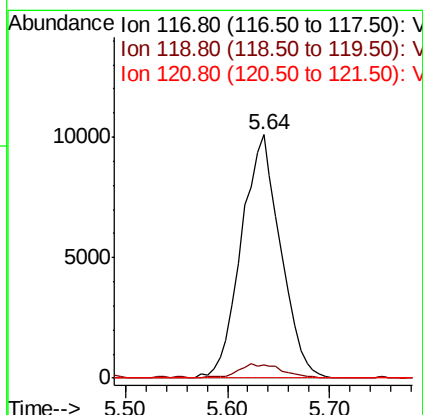
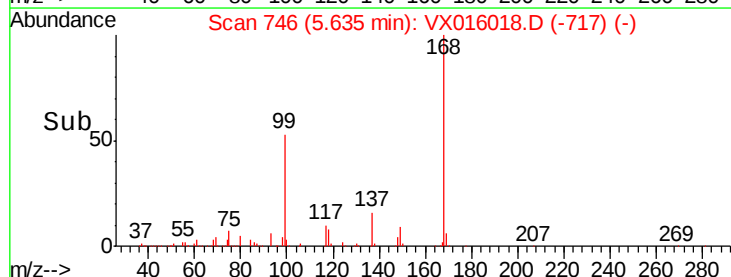
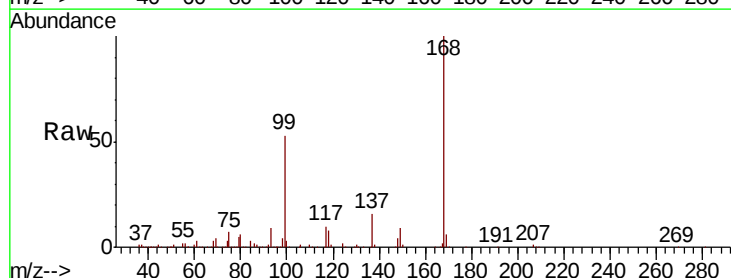
Tgt Ion: 117 Resp: 26977

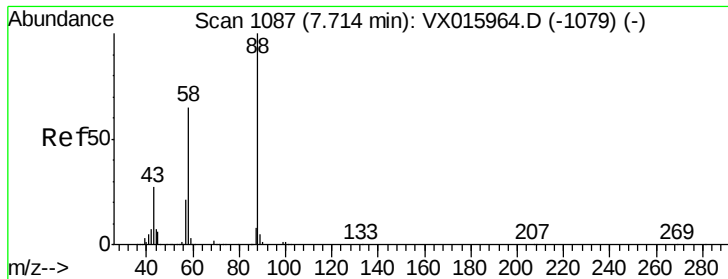
Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.4#

121 0.0 24.2 36.4#

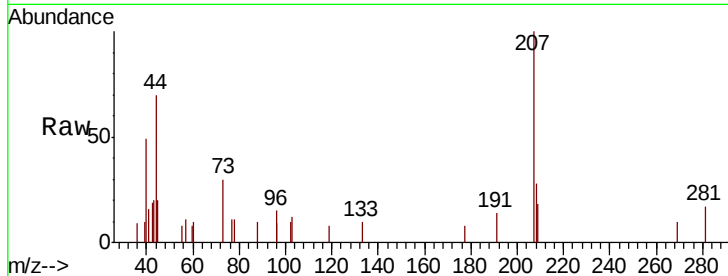




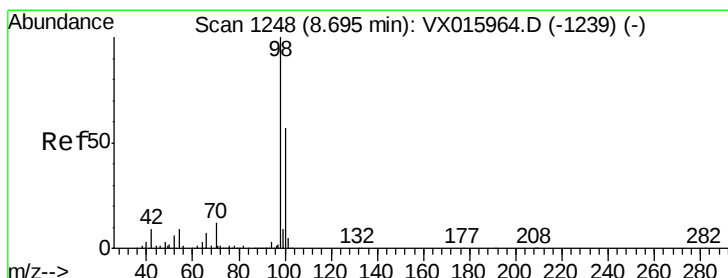
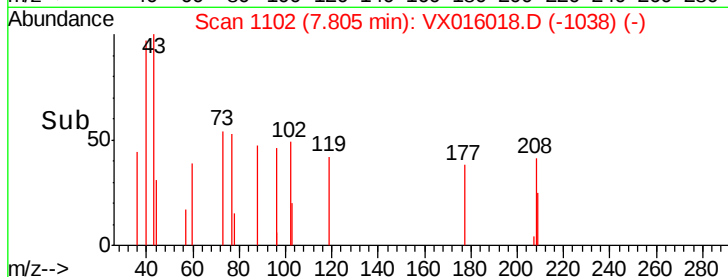
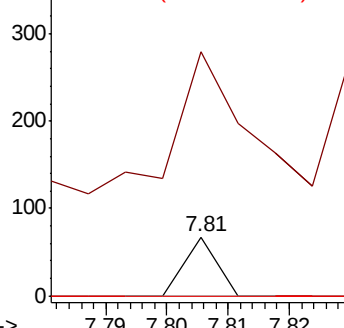
#49
1,4-Dioxane
Concen: 0.279 ug/l
RT: 7.81 min Scan# 1102
Delta R.T. 0.09 min
Lab File: VX016018.D
Acq: 01 May 2020 17:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 500.0 26.6 39.8#
58 0.0 54.8 82.2#

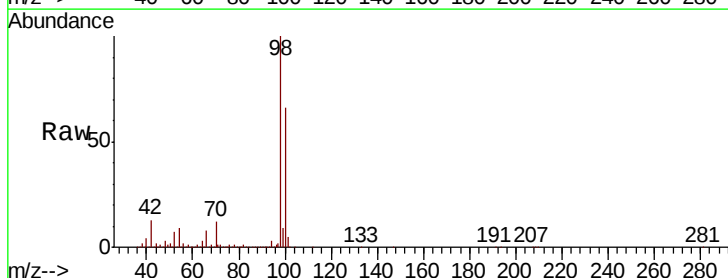


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

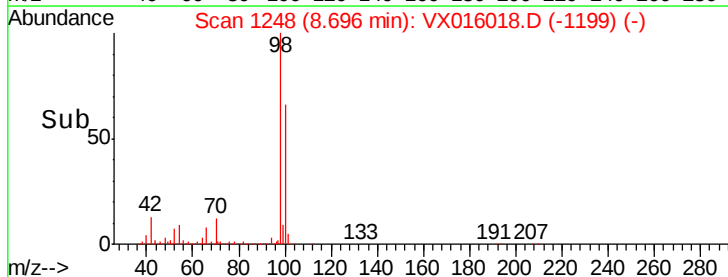
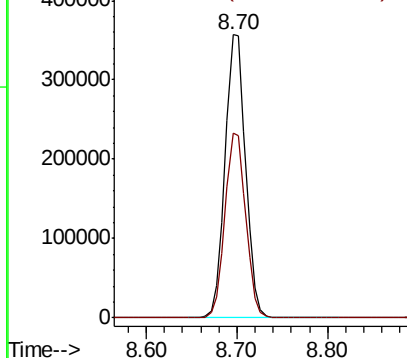


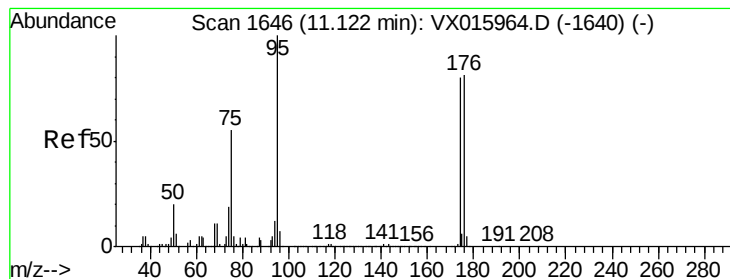
#50
Toluene-d8
Concen: 52.913 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016018.D
Acq: 01 May 2020 17:47

Tgt Ion: 98 Resp: 562170
Ion Ratio Lower Upper
98 100
100 66.0 53.1 79.7



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





#62

4-Bromofluorobenzene

Concen: 53.941 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

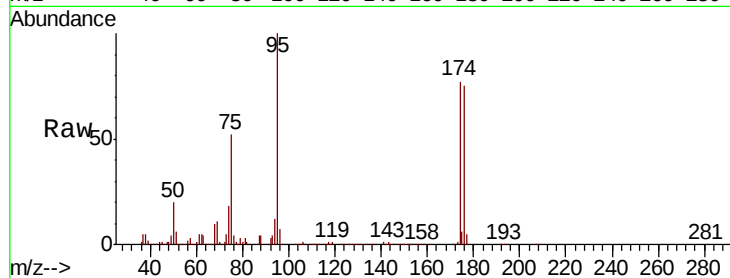
Tot Ion: 95 Resp: 224776

Ion Ratio Lower Upper

95 100

174 78.3 0.0 165.0

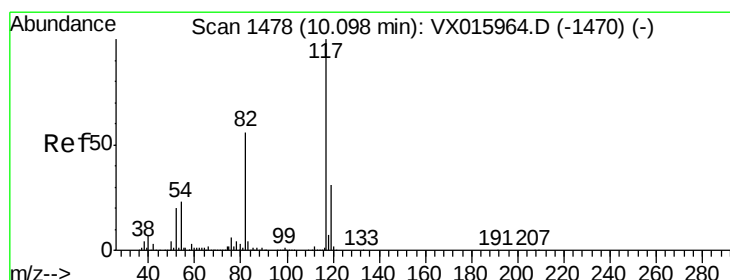
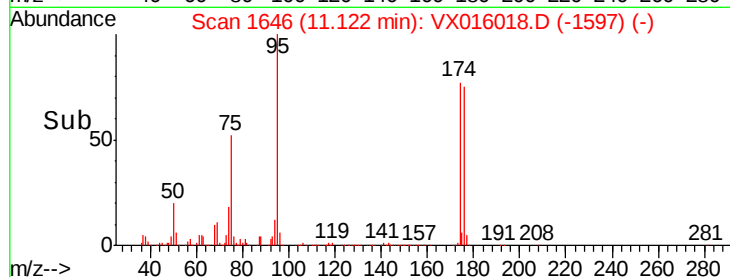
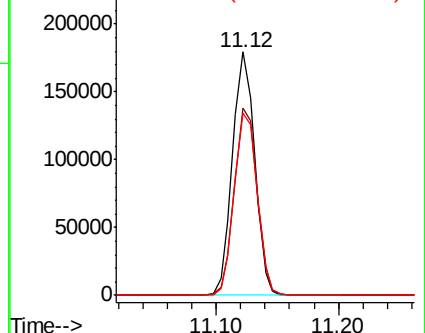
176 77.5 0.0 163.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

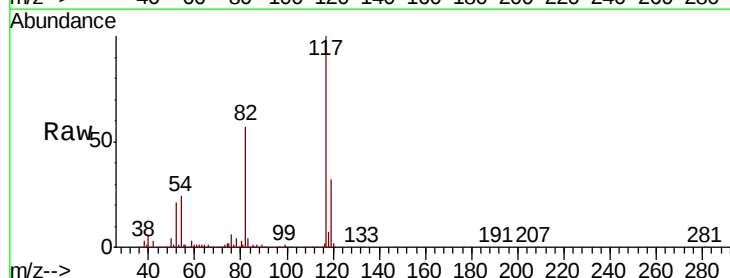
Tgt Ion: 117 Resp: 445823

Ion Ratio Lower Upper

117 100

82 56.9 44.5 66.7

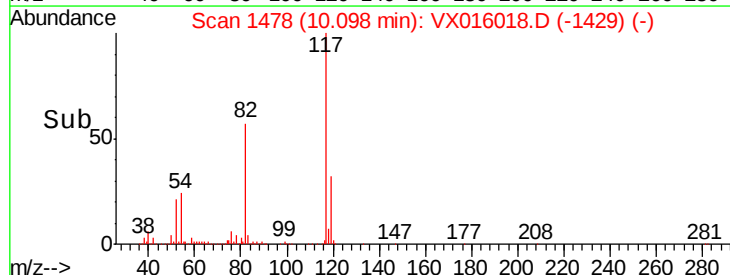
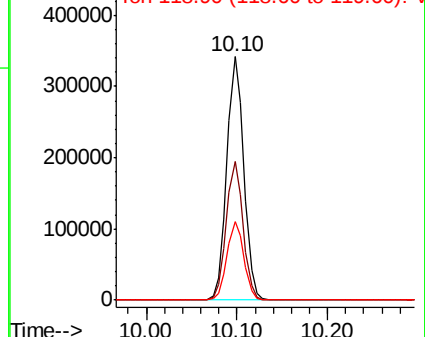
119 32.4 25.0 37.6

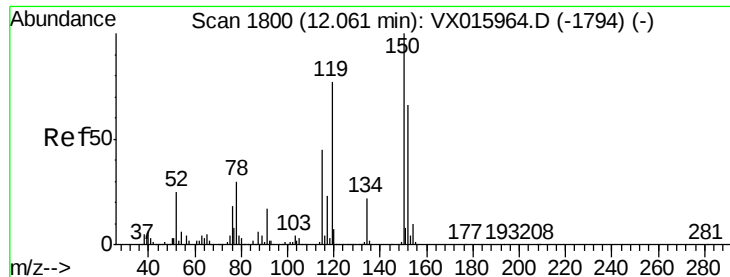


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

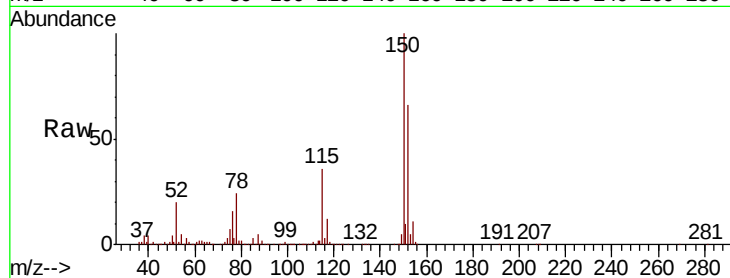
Tot Ion:152 Resp: 231964

Ion Ratio Lower Upper

152 100

115 58.6 40.9 122.7

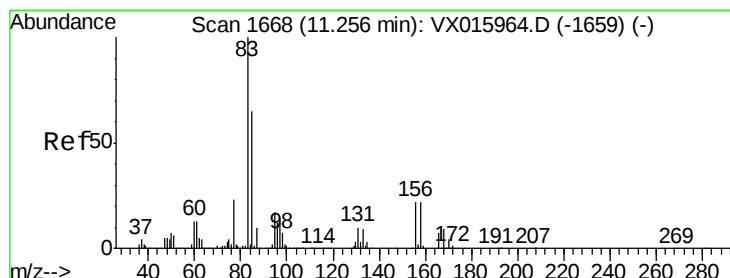
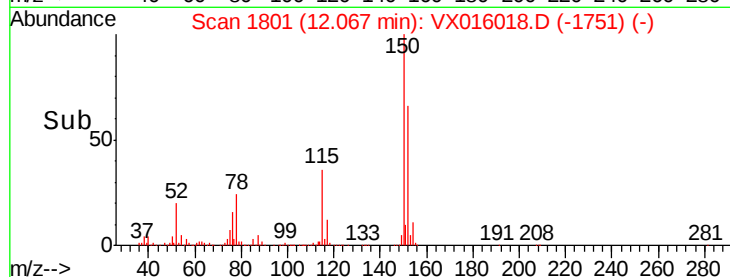
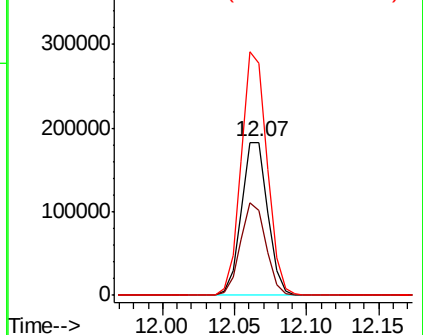
150 156.8 0.0 342.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: 3.727 ug/l

RT: 11.26 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

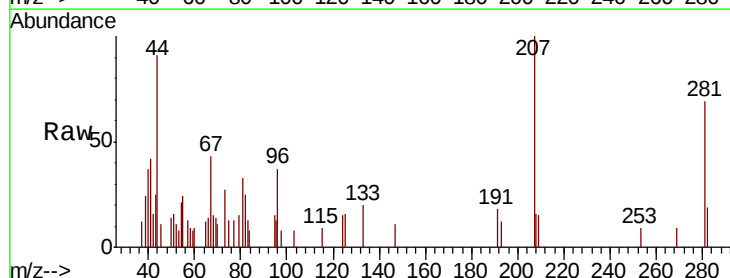
Tgt Ion: 83 Resp: 102

Ion Ratio Lower Upper

83 100

131 23.5 5.1 15.4#

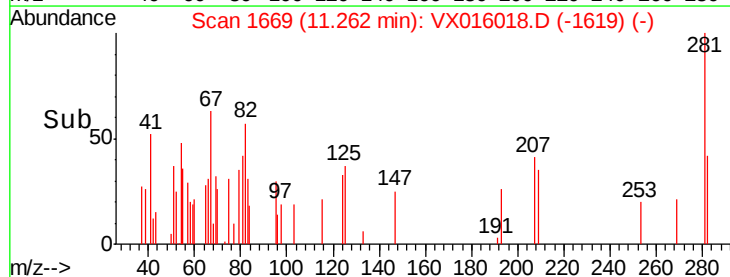
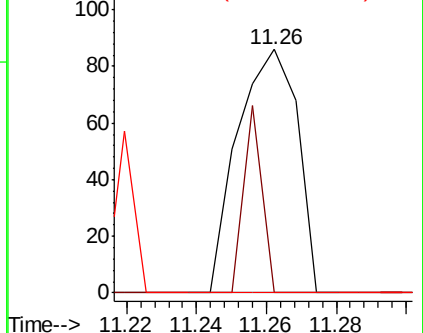
85 0.0 32.2 96.6#

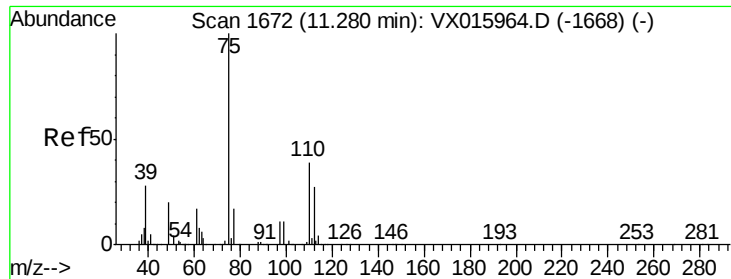


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 24.013 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

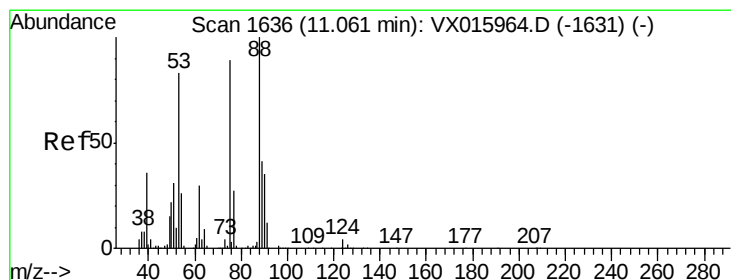
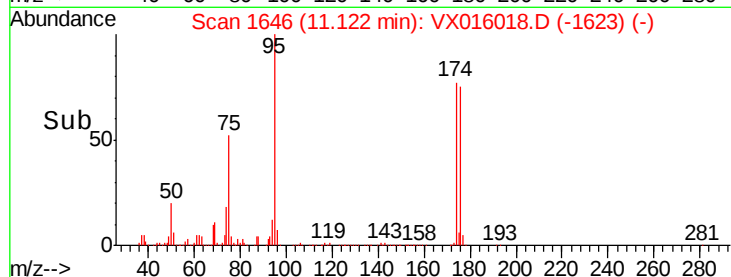
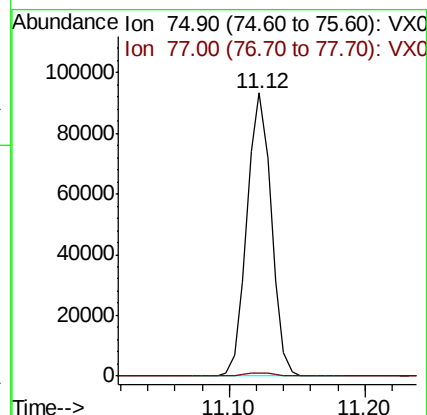
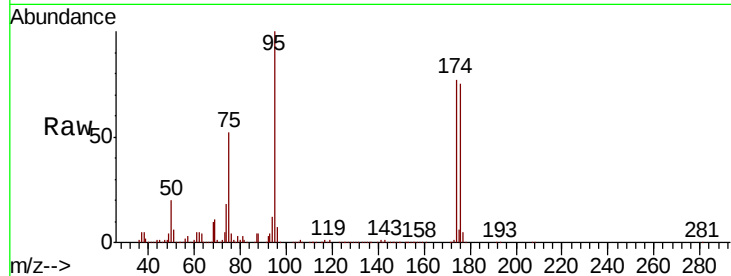
ClientSampleId :

Tot Ion: 75 Resp: 116883

Ion Ratio Lower Upper

75 100

77 1.4 21.6 65.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.748 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

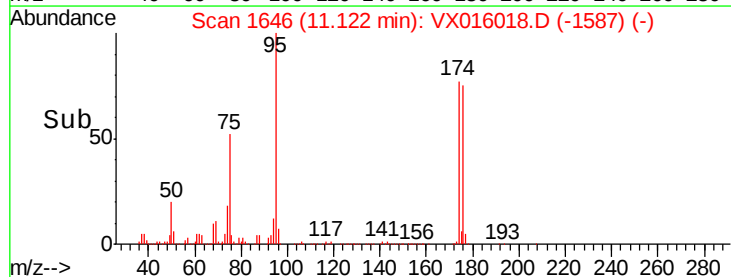
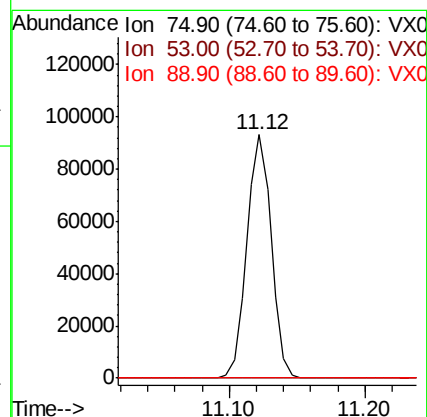
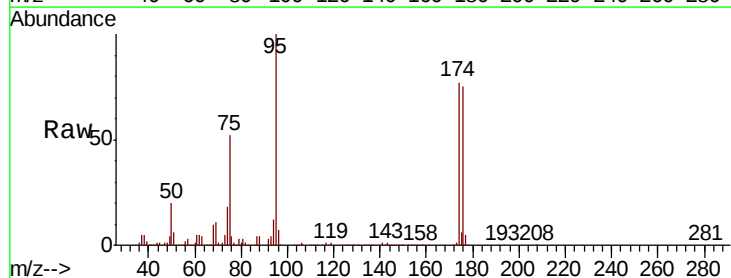
Tgt Ion: 75 Resp: 116883

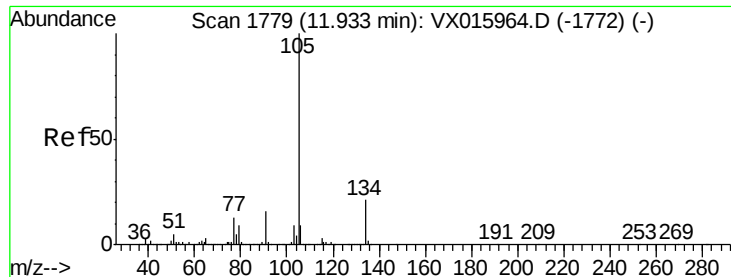
Ion Ratio Lower Upper

75 100

53 0.1 78.3 117.5#

89 0.0 37.2 55.8#





#85

sec-Butylbenzene

Concen: 0.488 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

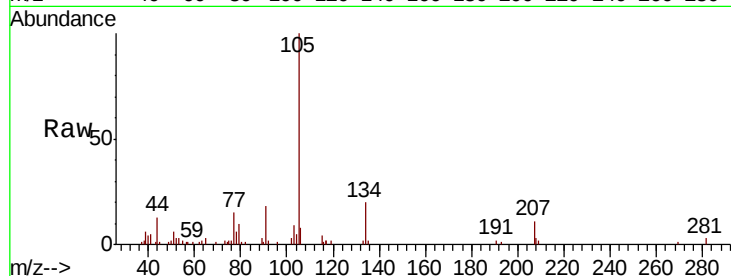
ClientSampleId :

Tot Ion:105 Resp: 7533

Ion Ratio Lower Upper

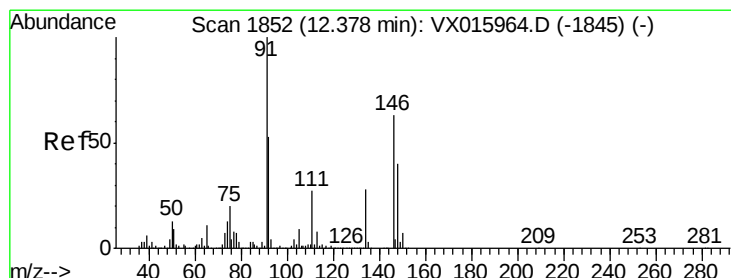
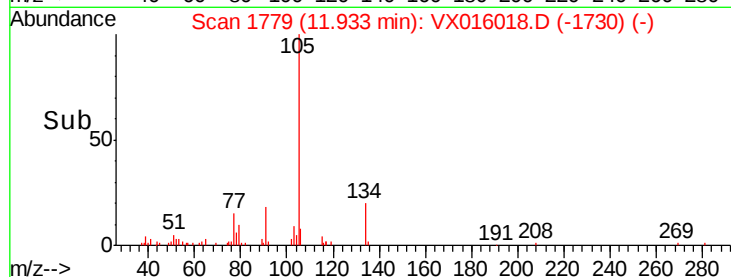
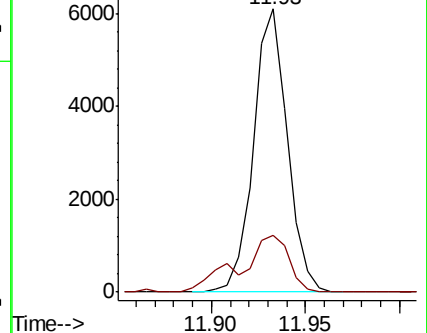
105 100

134 29.2 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#91

1,2-Dichlorobenzene

Concen: 0.267 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

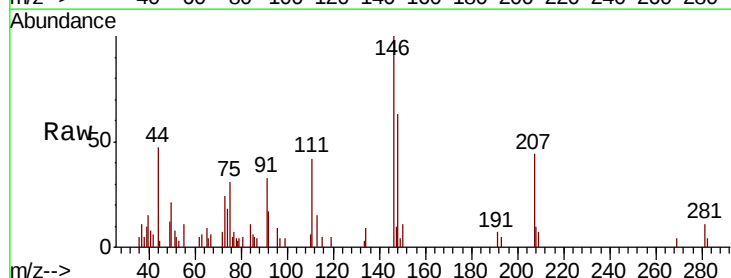
Tgt Ion:146 Resp: 1894

Ion Ratio Lower Upper

146 100

111 43.6 21.1 63.3

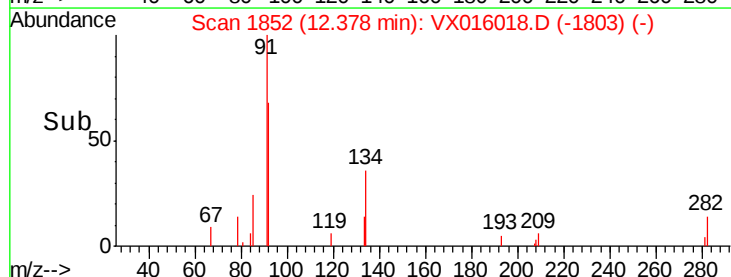
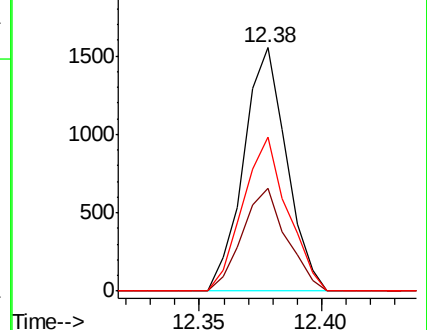
148 65.5 32.3 96.9

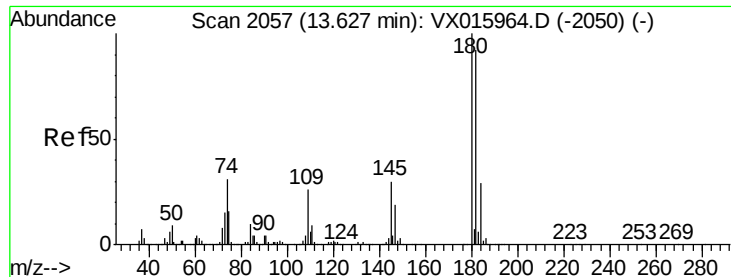


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 0.789 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

Instrument :

MSVOA_X

ClientSampleId :

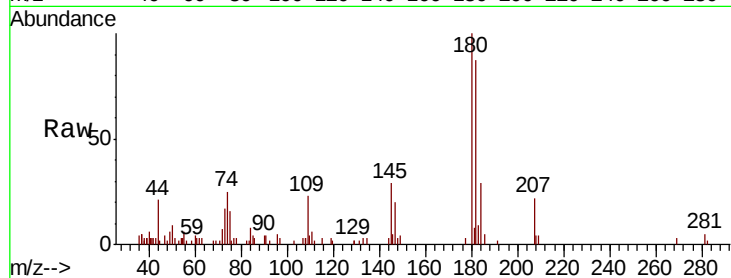
Tot Ion:180 Resp: 4193

Ion Ratio Lower Upper

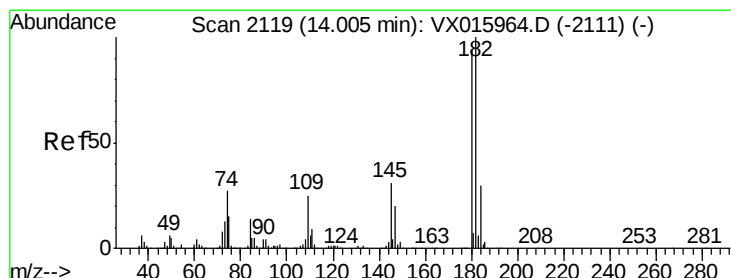
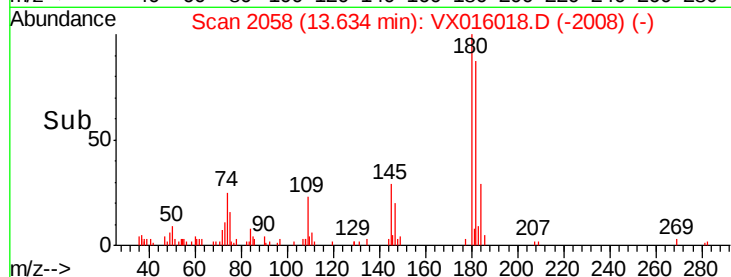
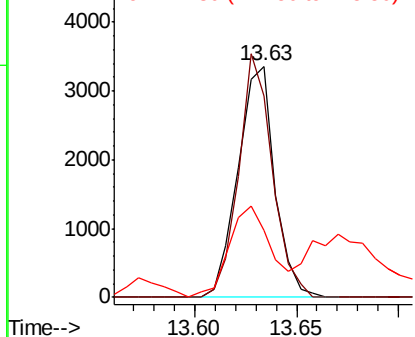
180 100

182 96.3 46.9 140.6

145 45.4 14.7 44.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.246 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VX016018.D

Acq: 01 May 2020 17:47

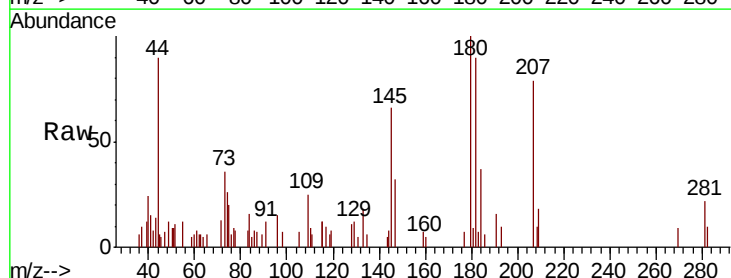
Tgt Ion:180 Resp: 1258

Ion Ratio Lower Upper

180 100

182 97.1 48.7 146.1

145 123.6 16.1 48.3#



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

