

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050420\
 Data File : VX016046.D
 Acq On : 04 May 2020 19:24
 Operator : JC/SP
 Sample : L2469-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-SW204-20200428

Quant Time: May 05 07:32:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:11:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	297078	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	485724	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	475826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	248865	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	185829	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
35) Dibromofluoromethane	5.47	113	142974	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	
50) Toluene-d8	8.70	98	584721	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.12	95	242265	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	

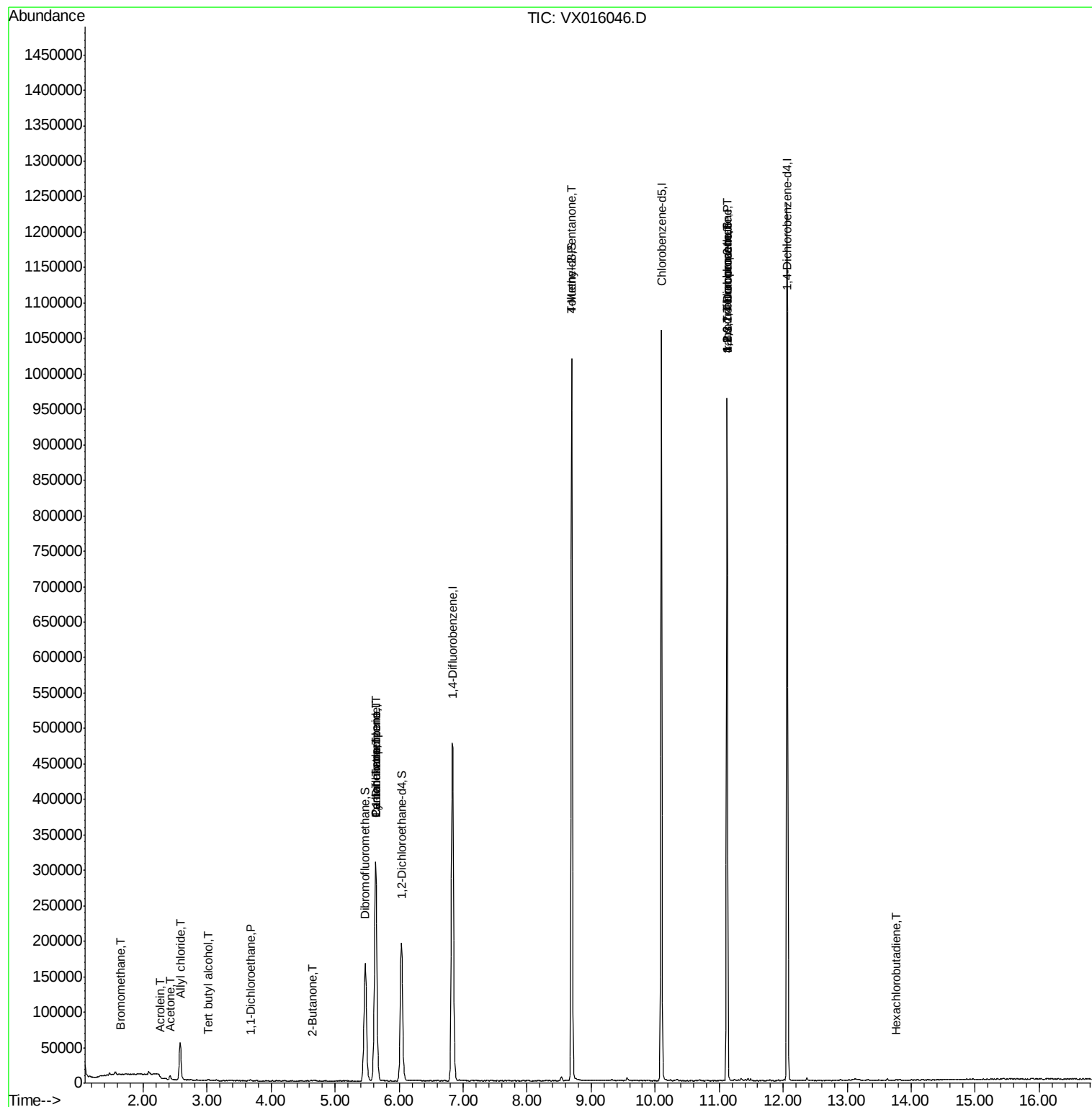
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	408	0.208	ug/l #	38
11) Tert butyl alcohol	3.01	59	2256	2.282	ug/l #	78
13) Acrolein	2.28	56	596	0.963	ug/l #	64
14) Allyl chloride	2.57	41	5302	0.936	ug/l #	56
16) Acetone	2.42	43	5507	3.157	ug/l	94
24) 1,1-Dichloroethane	3.68	63	1514	0.253	ug/l #	82
25) 2-Butanone	4.65	43	932	0.332	ug/l #	48
31) Cyclohexane	5.64	56	6170	1.136	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	22724	4.753	ug/l #	50
38) Carbon Tetrachloride	5.63	117	28985	5.964	ug/l #	14
51) 4-Methyl-2-Pentanone	8.70	43	2795	0.517	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.12	83	189	4.855	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	125467	22.217	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	125467	52.945	ug/l #	13
94) Hexachlorobutadiene	13.77	225	202	0.601	ug/l	69

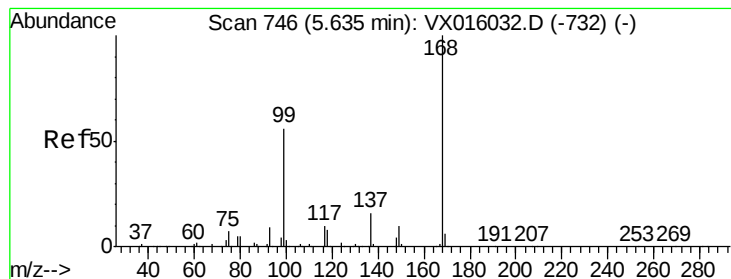
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

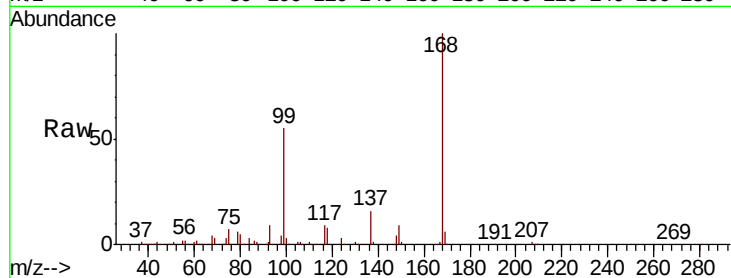
SA-SW204-20200428

Tot Ion:168 Resp: 297078

Ion Ratio Lower Upper

168 100

99 55.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

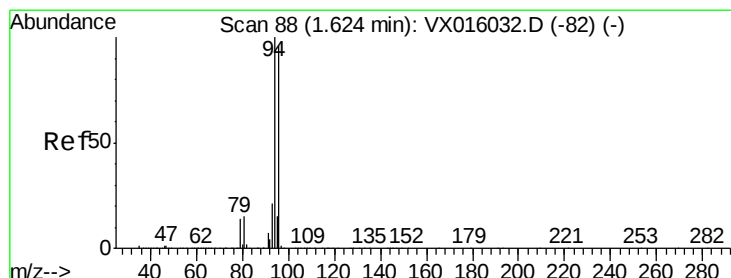
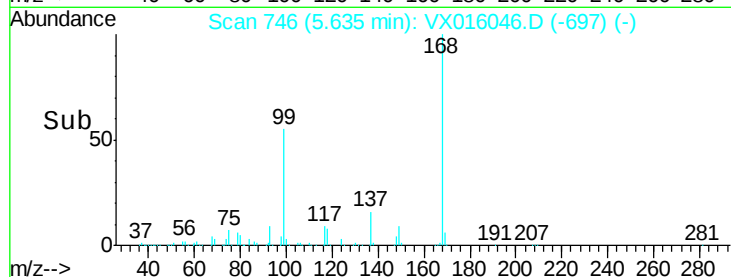
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.65 min Scan# 93

Delta R.T. 0.03 min

Lab File: VX016046.D

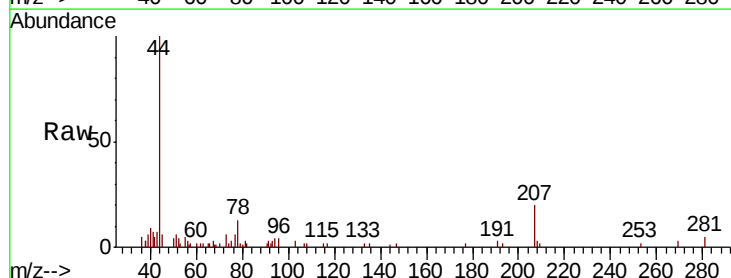
Acq: 04 May 2020 19:24

Tgt Ion: 94 Resp: 408

Ion Ratio Lower Upper

94 100

96 35.6 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

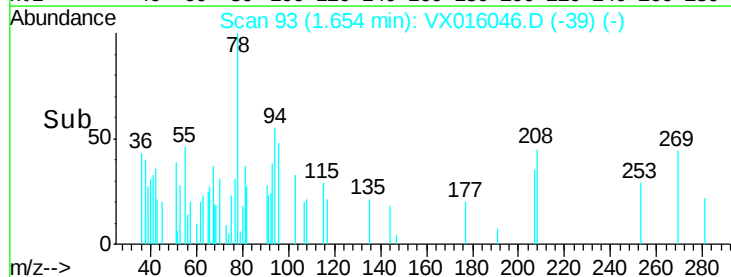
150

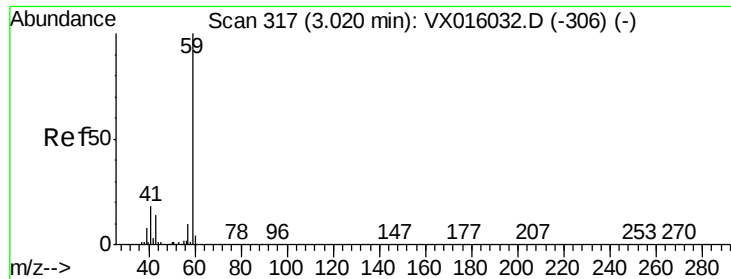
100

50

0

Time-->

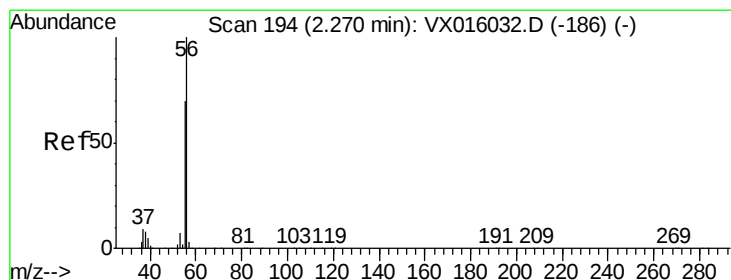
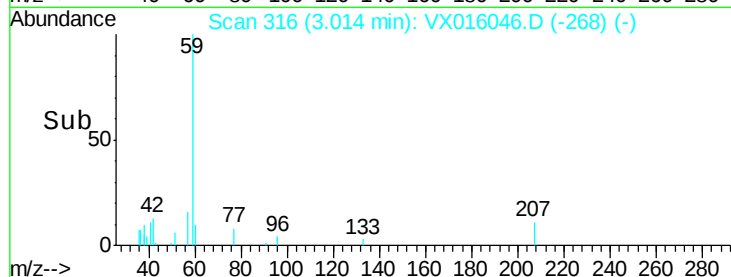
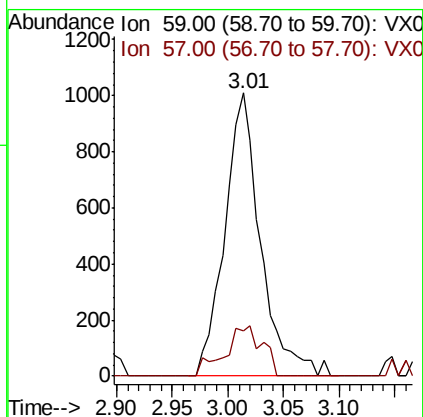
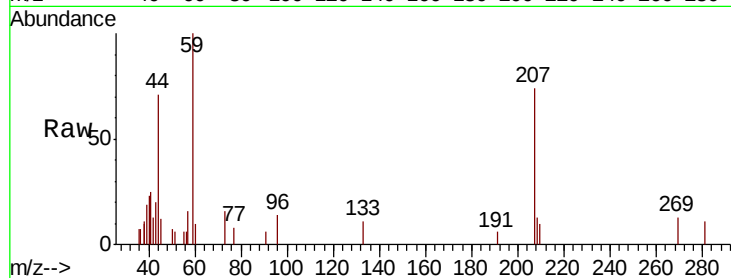




#11
Tert butyl alcohol
Concen: 2.282 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016046.D
Acq: 04 May 2020 19:24

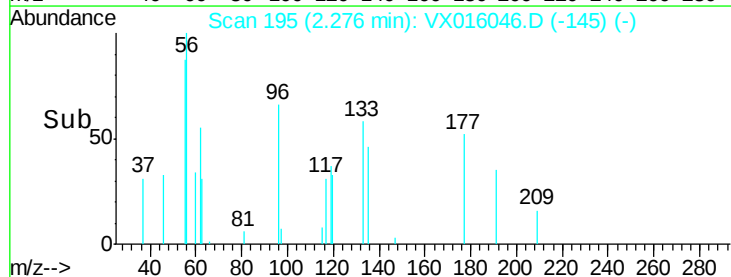
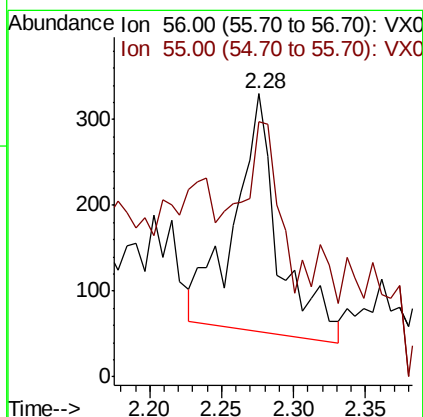
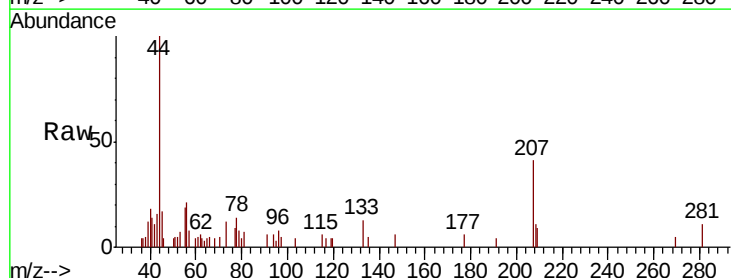
Instrument :
MSVOA_X
ClientSampleId :
SA-SW204-20200428

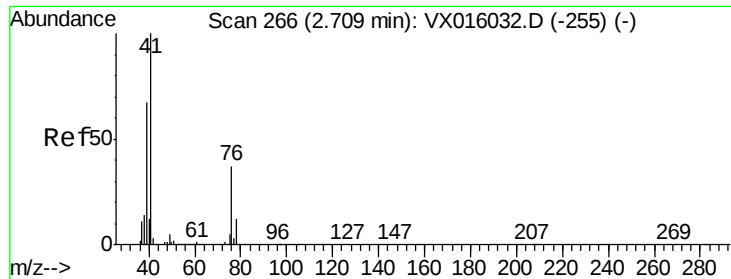
Tot Ion: 59 Resp: 2256
Ion Ratio Lower Upper
59 100
57 18.7 8.2 12.4#



#13
Acrolein
Concen: 0.963 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016046.D
Acq: 04 May 2020 19:24

Tgt Ion: 56 Resp: 596
Ion Ratio Lower Upper
56 100
55 41.3 56.5 84.7#

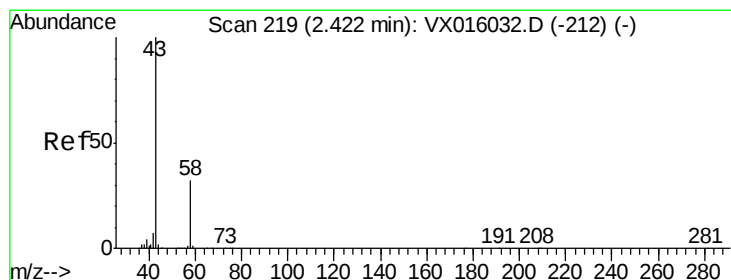
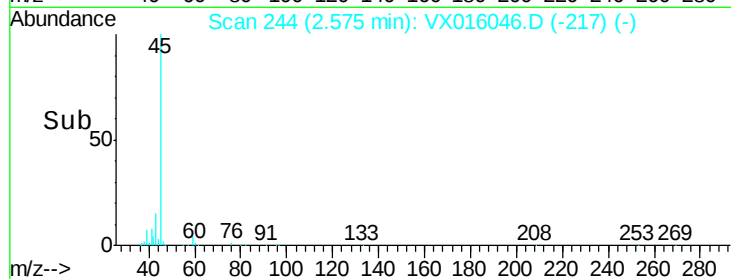
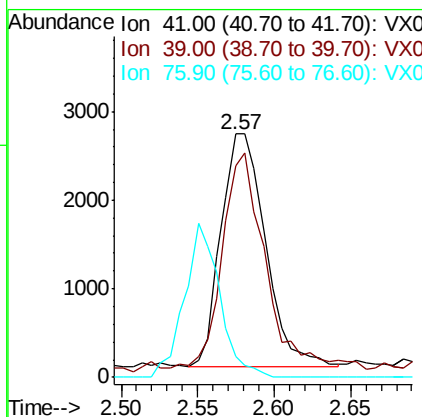
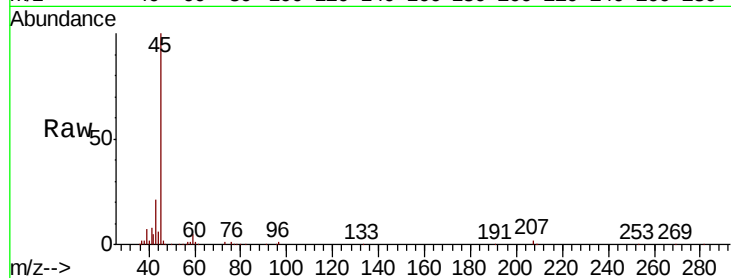




#14
Allvl chloride
Concen: 0.936 ug/l
RT: 2.57 min Scan# 244
Delta R.T. -0.13 min
Lab File: VX016046.D
Acq: 04 May 2020 19:24

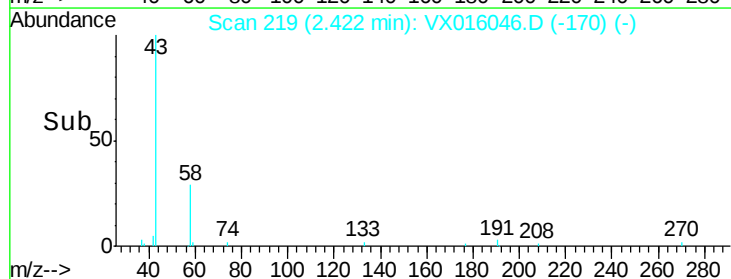
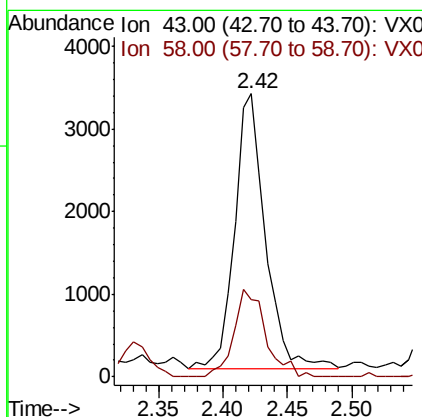
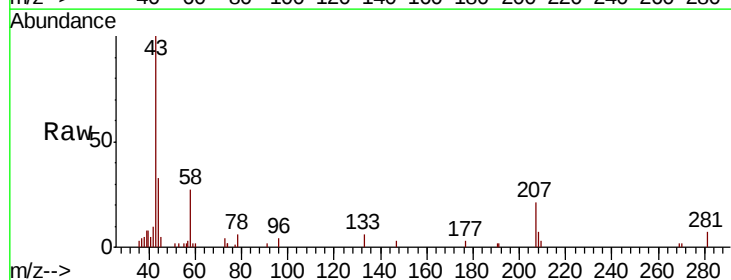
Instrument :
MSVOA_X
ClientSampleId :
SA-SW204-20200428

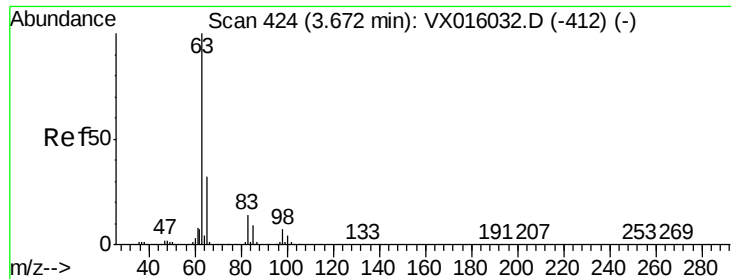
Tot Ion: 41 Resp: 5302
Ion Ratio Lower Upper
41 100
39 91.3 50.5 75.7#
76 0.0 26.6 40.0#



#16
Acetone
Concen: 3.157 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX016046.D
Acq: 04 May 2020 19:24

Tgt Ion: 43 Resp: 5507
Ion Ratio Lower Upper
43 100
58 28.2 25.4 38.0





#24

1,1-Dichloroethane

Concen: 0.253 ug/l

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

SA-SW204-20200428

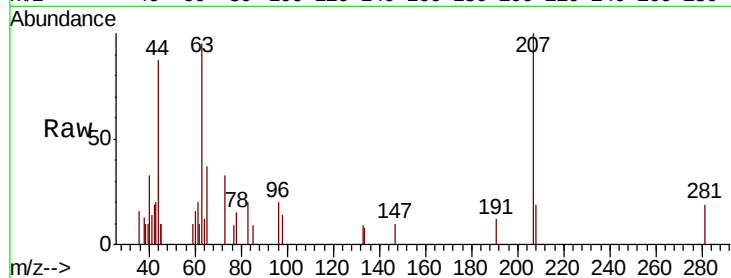
Tot Ion: 63 Resp: 1514

Ion Ratio Lower Upper

63 100

98 14.5 3.5 10.5#

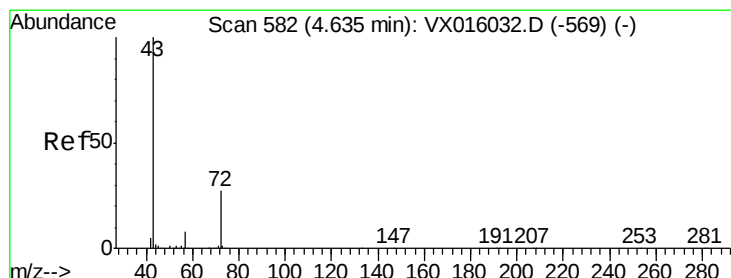
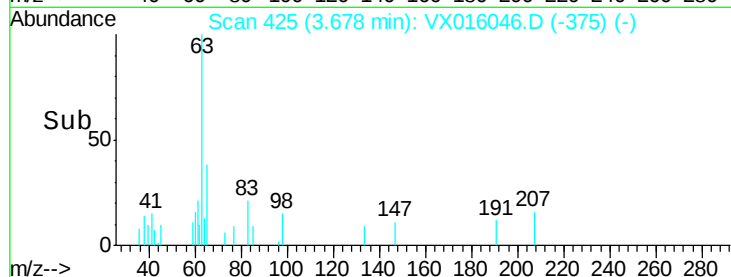
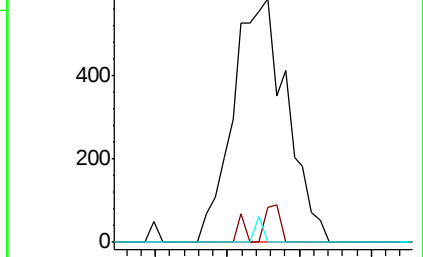
100 0.0 2.1 6.5#



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



#25

2-Butanone

Concen: 0.332 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016046.D

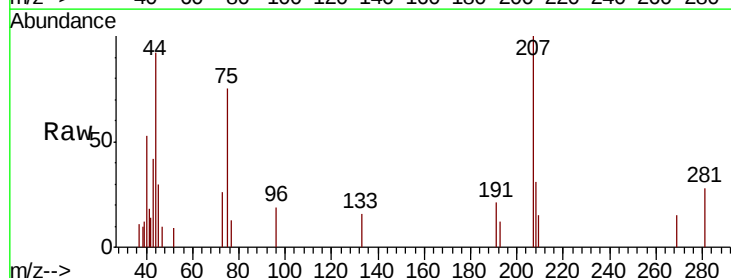
Acq: 04 May 2020 19:24

Tgt Ion: 43 Resp: 932

Ion Ratio Lower Upper

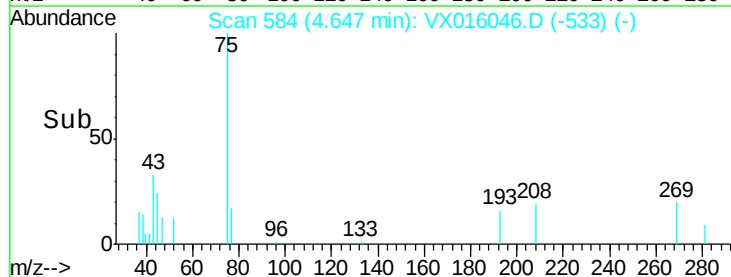
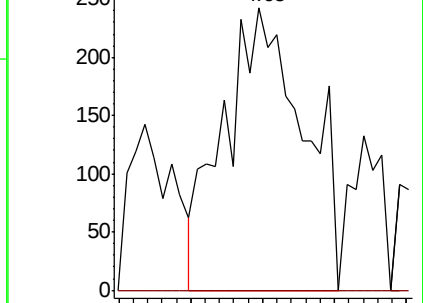
43 100

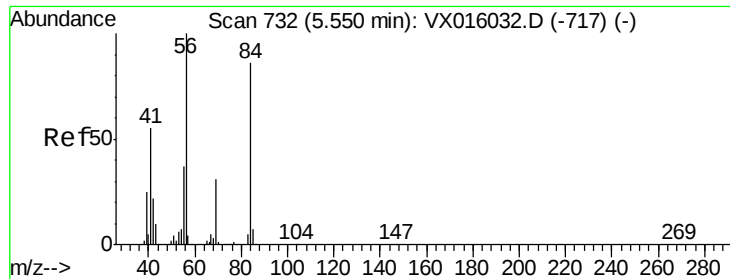
72 0.0 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

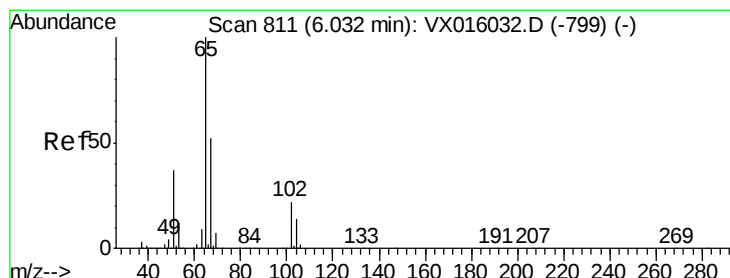
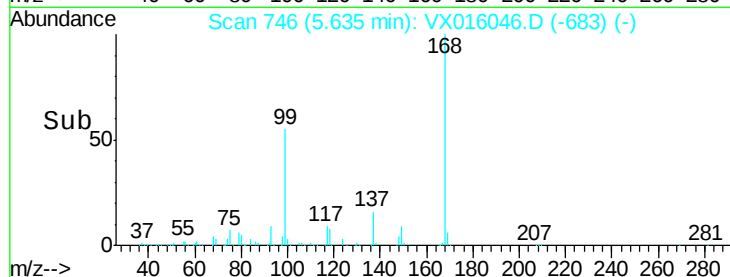
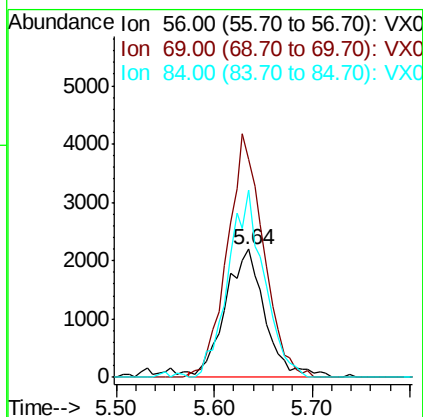
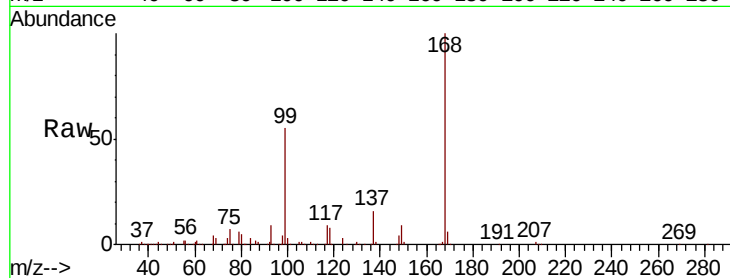




#31
Cyclohexane
Concen: 1.136 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016046.D
Acq: 04 May 2020 19:24

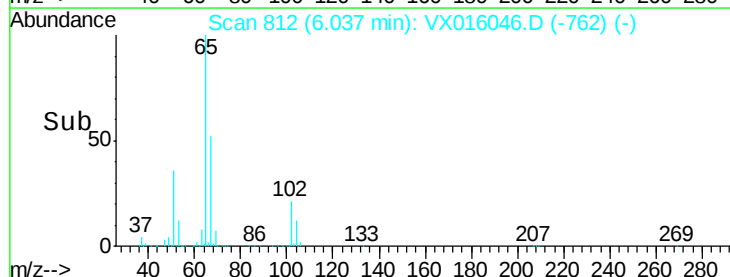
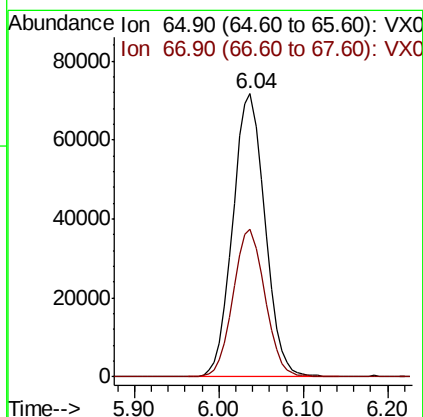
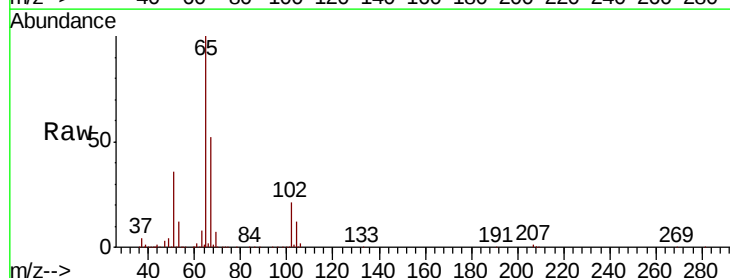
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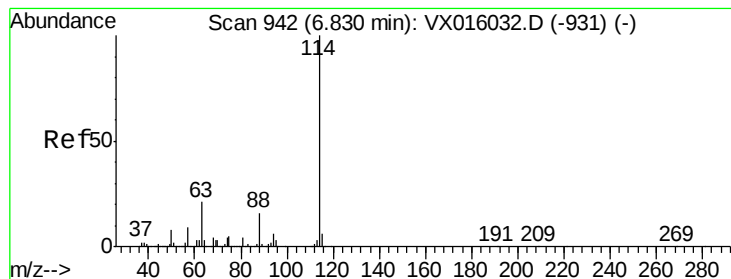
Tot Ion: 56 Resp: 6170
Ion Ratio Lower Upper
56 100
69 170.4 25.0 37.6#
84 146.8 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 47.536 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016046.D
Acq: 04 May 2020 19:24

Tgt Ion: 65 Resp: 185829
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

SA-SW204-20200428

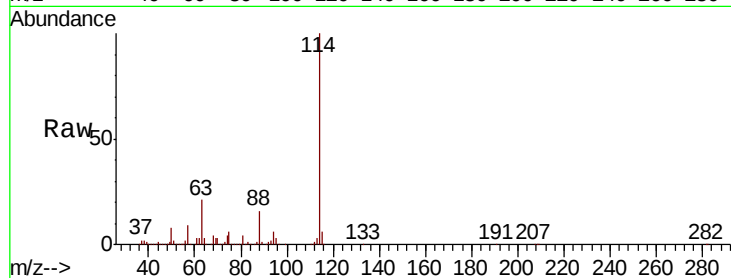
Tot Ion:114 Resp: 485724

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

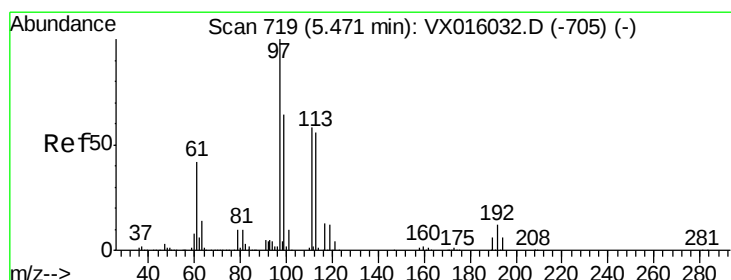
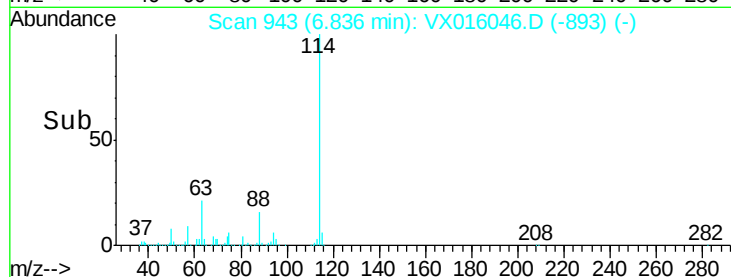
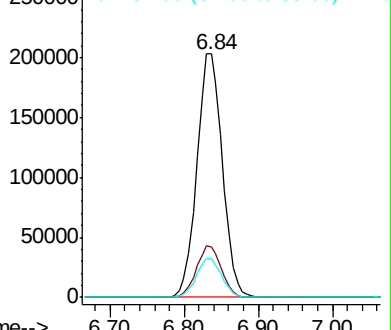
88 16.0 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.461 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

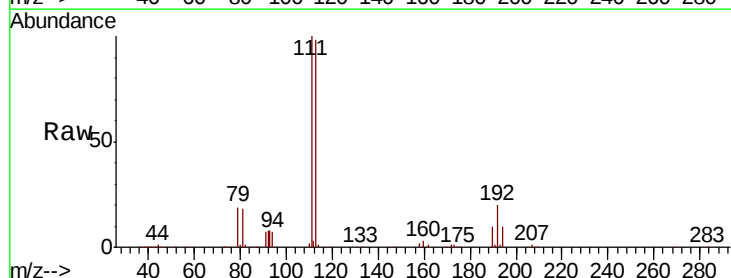
Tgt Ion:113 Resp: 142974

Ion Ratio Lower Upper

113 100

111 103.2 81.6 122.4

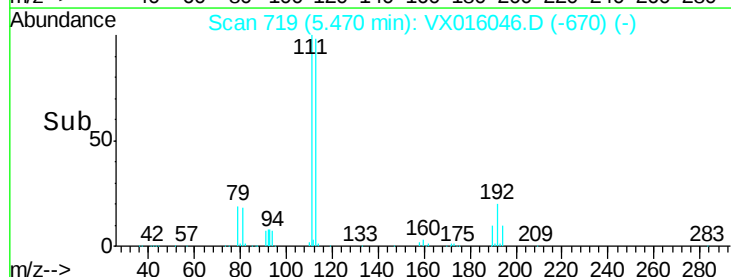
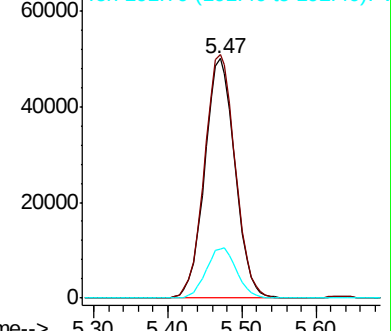
192 21.0 17.0 25.4

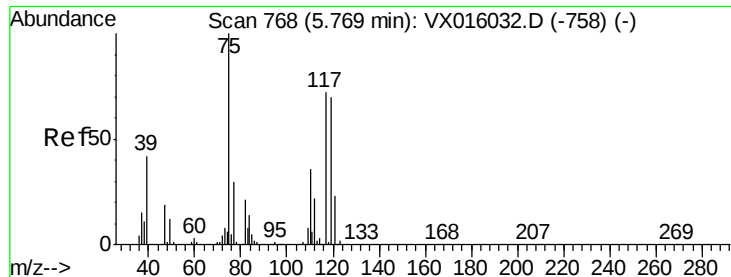


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.753 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

SA-SW204-20200428

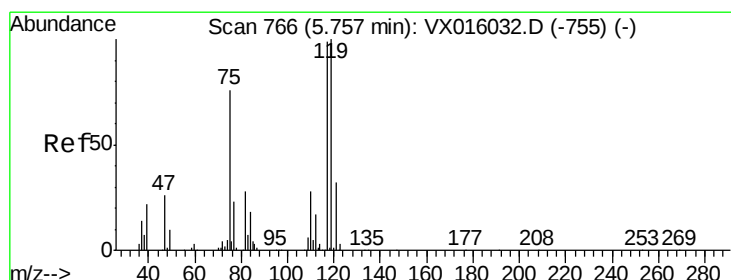
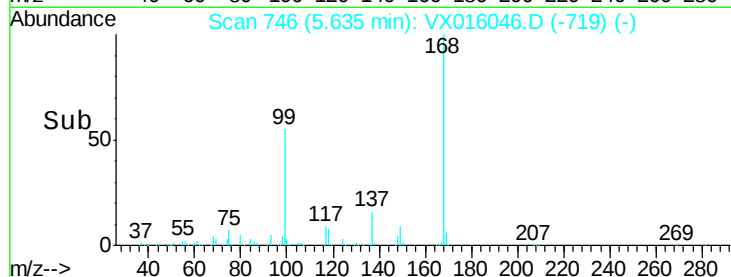
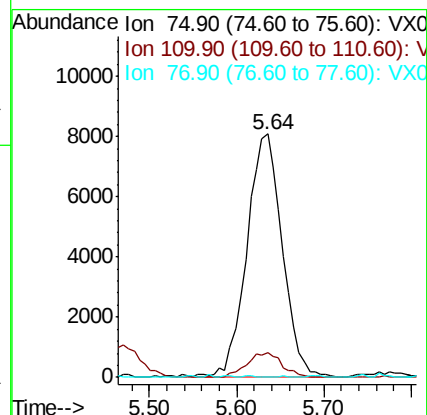
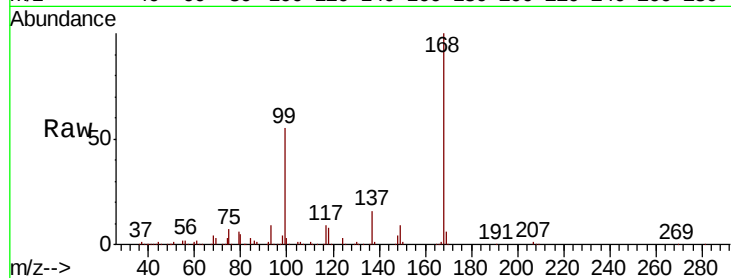
Tot Ion: 75 Resp: 22724

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.1#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.964 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

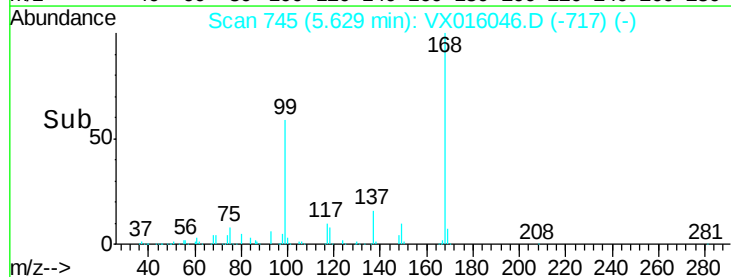
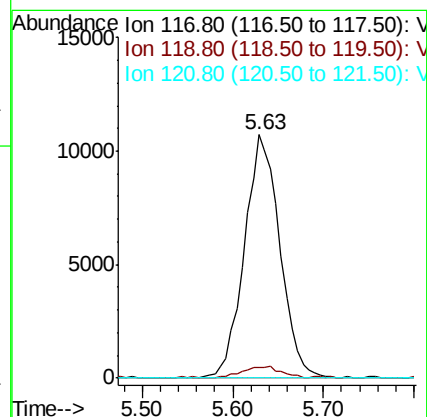
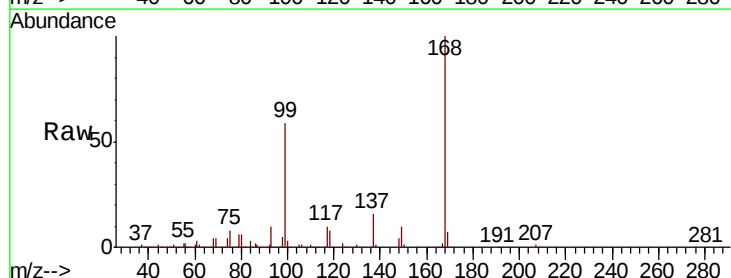
Tgt Ion: 117 Resp: 28985

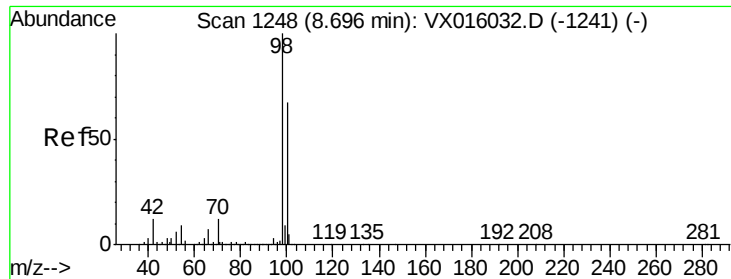
Ion Ratio Lower Upper

117 100

119 4.5 80.3 120.5#

121 0.0 25.7 38.5#





#50

Toluene-d8

Concen: 49.315 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

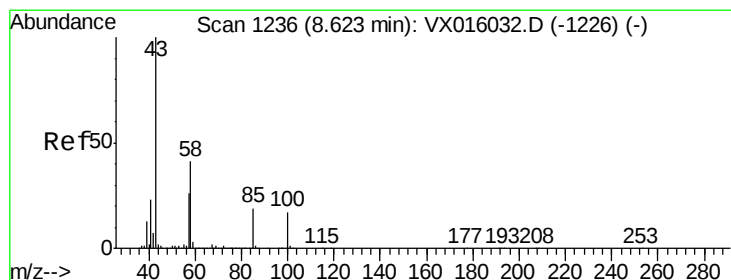
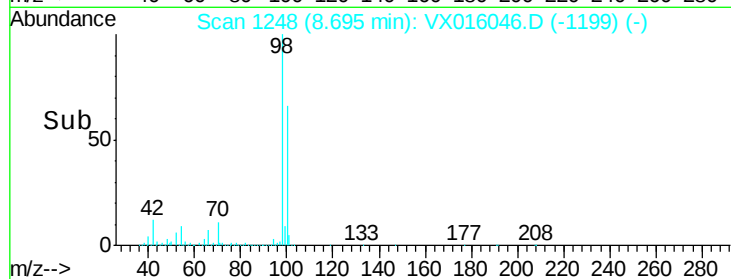
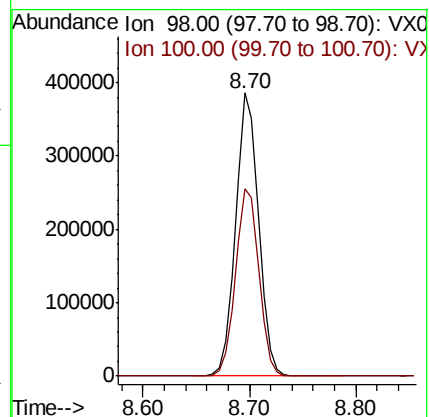
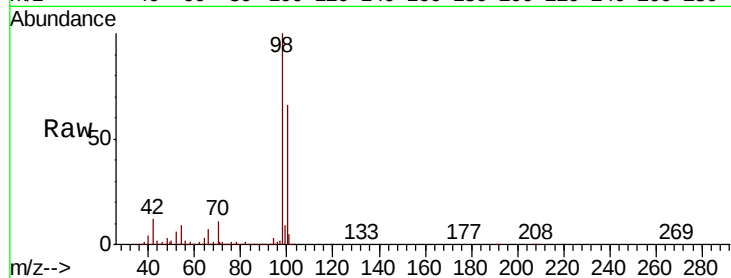
SA-SW204-20200428

Tot Ion: 98 Resp: 584721

Ion Ratio Lower Upper

98 100

100 67.9 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 0.517 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX016046.D

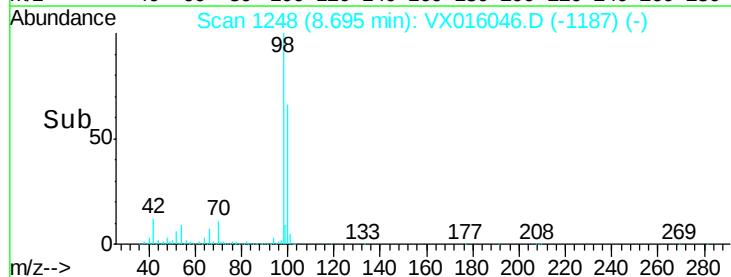
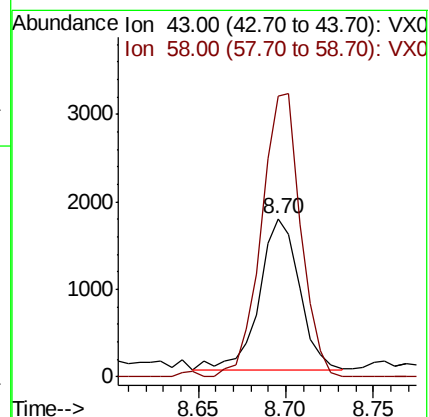
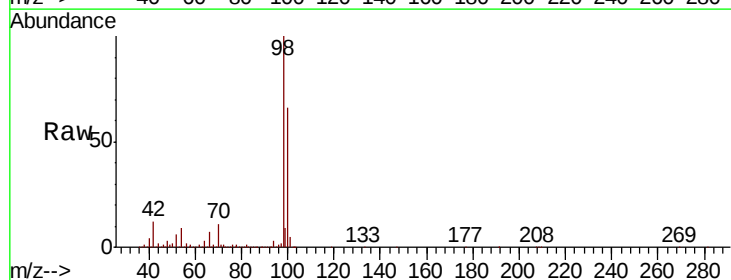
Acq: 04 May 2020 19:24

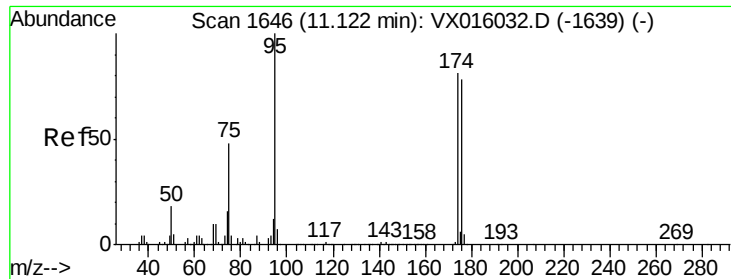
Tgt Ion: 43 Resp: 2795

Ion Ratio Lower Upper

43 100

58 181.1 33.0 49.4#





#62

4-Bromofluorobenzene

Concen: 53.720 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

SA-SW204-20200428

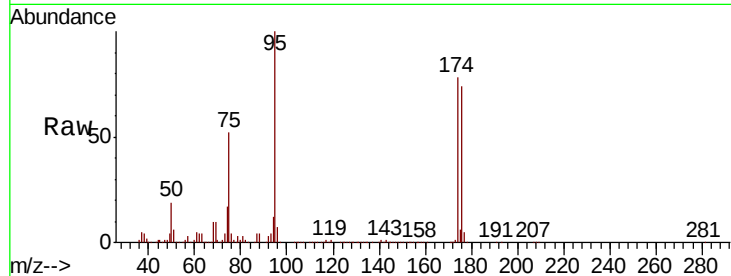
Tot Ion: 95 Resp: 242265

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.4

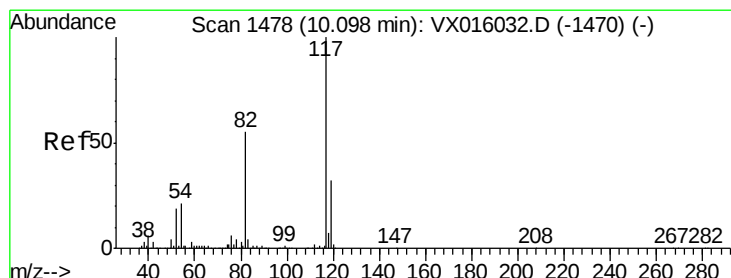
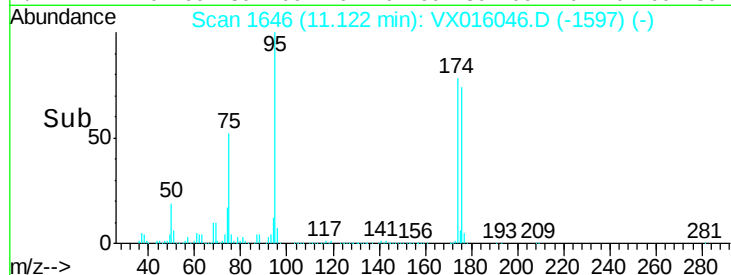
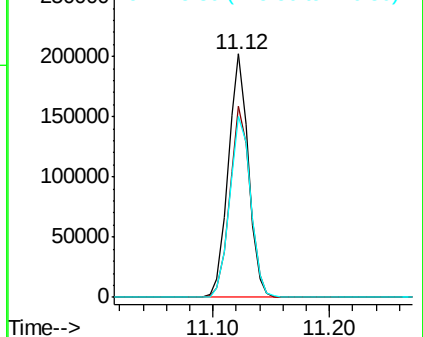
176 77.8 0.0 157.6



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: VX016046.D

Acq: 04 May 2020 19:24

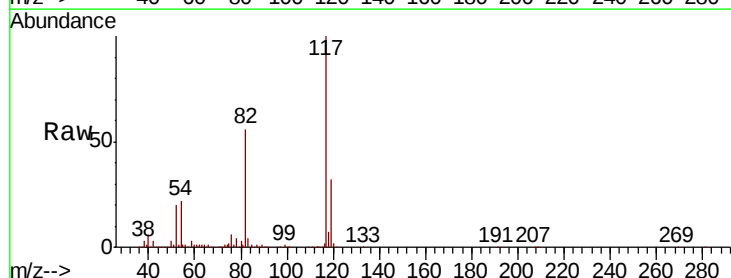
Tgt Ion: 117 Resp: 475826

Ion Ratio Lower Upper

117 100

82 56.2 44.4 66.6

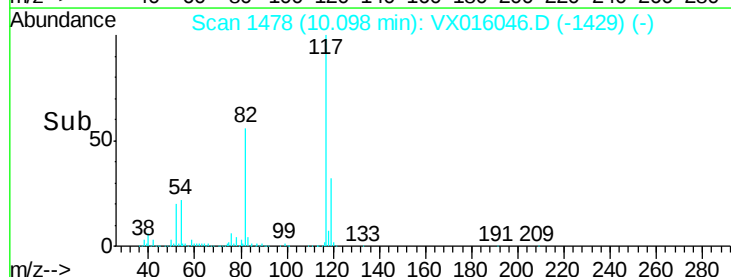
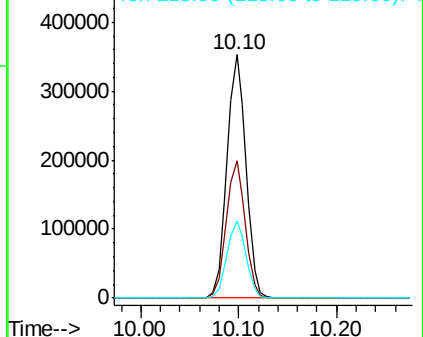
119 31.7 25.5 38.3

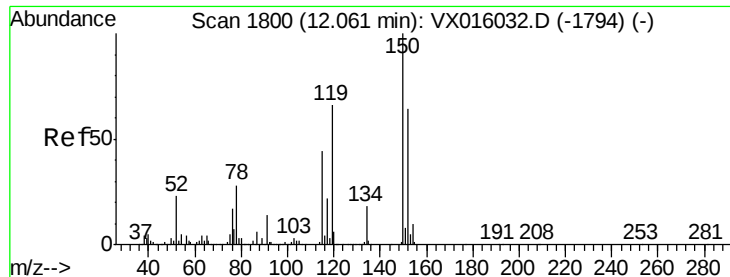


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

SA-SW204-20200428

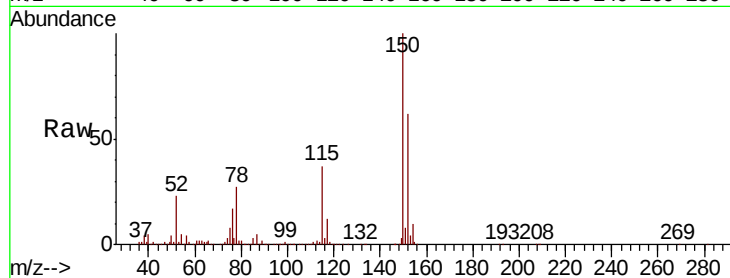
Tot Ion:152 Resp: 248865

Ion Ratio Lower Upper

152 100

115 58.4 41.3 124.1

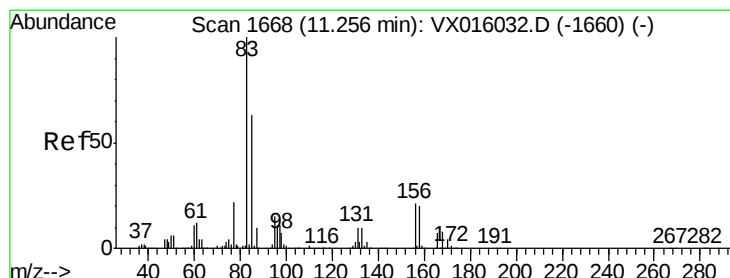
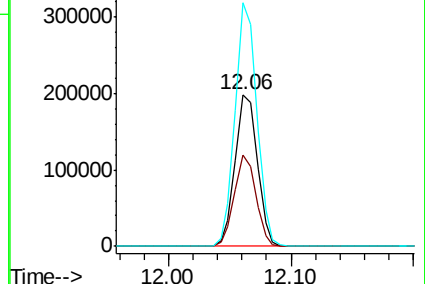
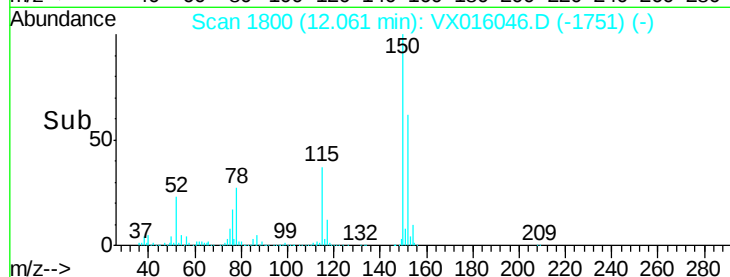
150 156.6 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 4.855 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

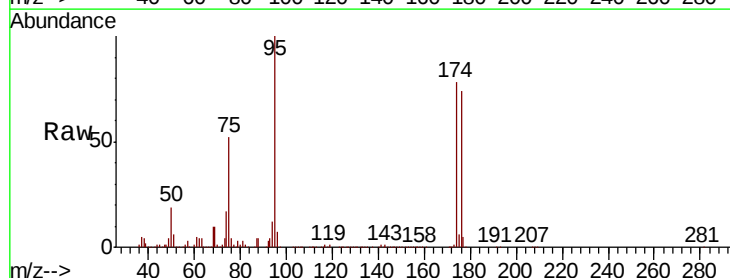
Tgt Ion: 83 Resp: 189

Ion Ratio Lower Upper

83 100

131 200.0 5.1 15.4#

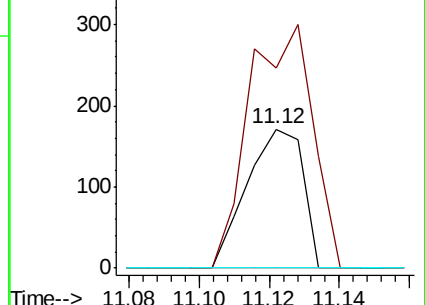
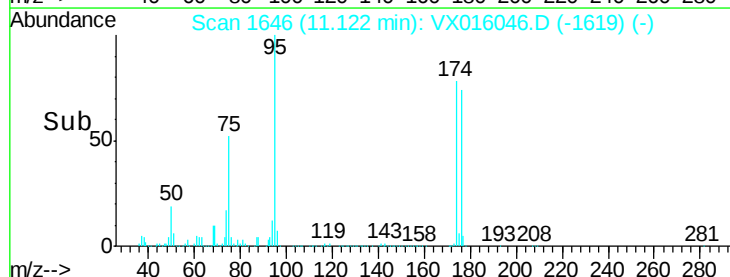
85 0.0 32.0 96.0#

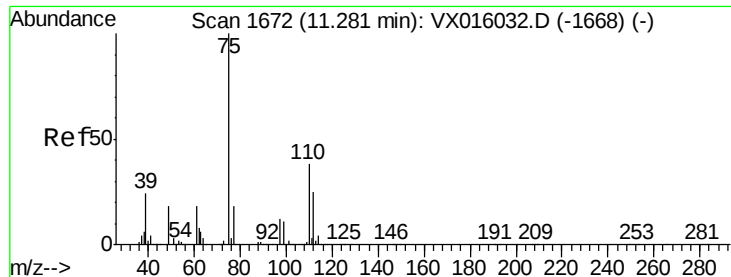


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 22.217 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

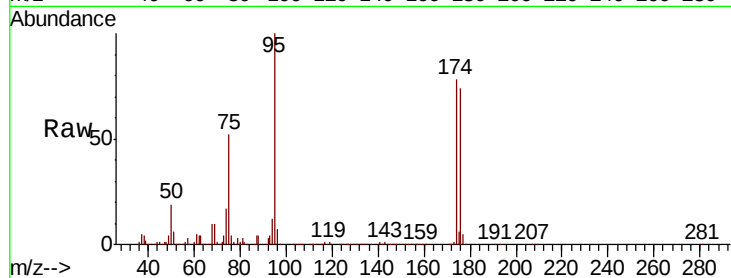
SA-SW204-20200428

Tot Ion: 75 Resp: 125467

Ion Ratio Lower Upper

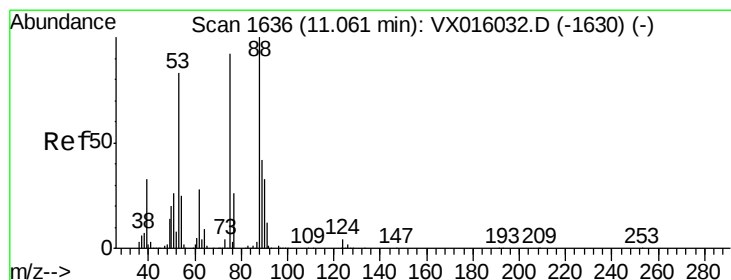
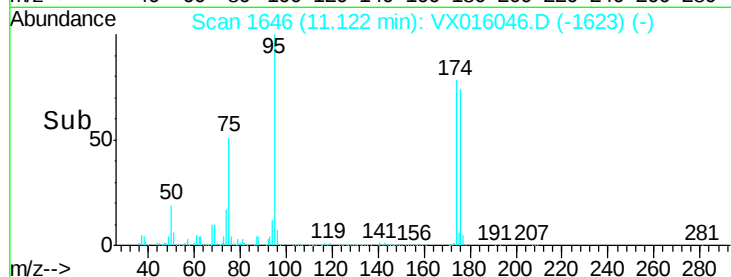
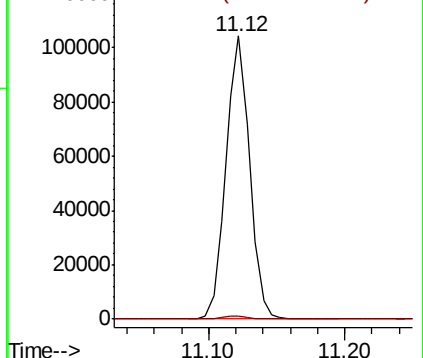
75 100

77 1.4 21.2 63.6#



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: 52.945 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

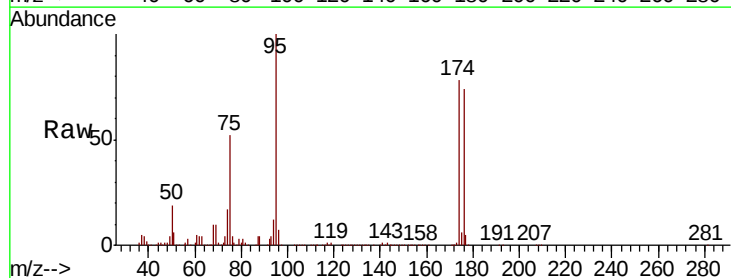
Tgt Ion: 75 Resp: 125467

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

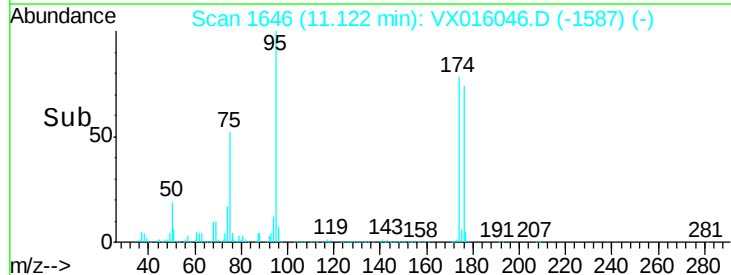
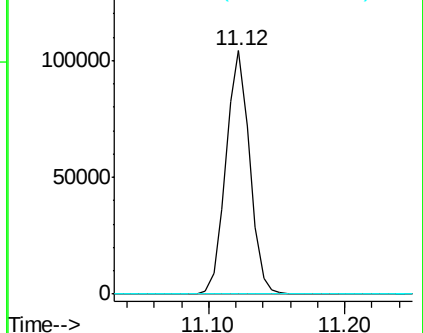
89 0.0 36.7 55.1#

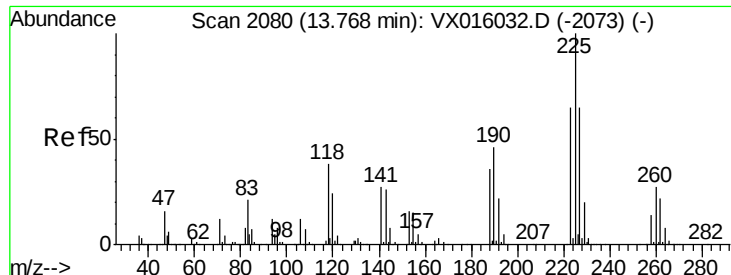


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.601 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016046.D

Acq: 04 May 2020 19:24

Instrument :

MSVOA_X

ClientSampleId :

SA-SW204-20200428

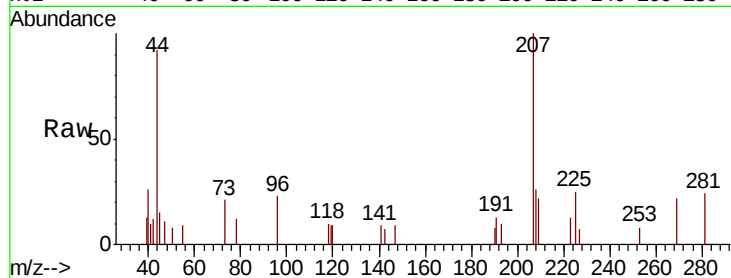
Tot Ion: 225 Resp: 202

Ion Ratio Lower Upper

225 100

223 41.6 32.3 96.9

227 38.1 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

