

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050720\
 Data File : VX016090.D
 Acq On : 07 May 2020 13:47
 Operator : JC/SP
 Sample : L2543-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS038RW082-200503

Quant Time: May 08 02:03:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	295806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	483538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	468752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	245493	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	182193	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
35) Dibromofluoromethane	5.46	113	142241	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	8.70	98	595098	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	11.12	95	237989	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	

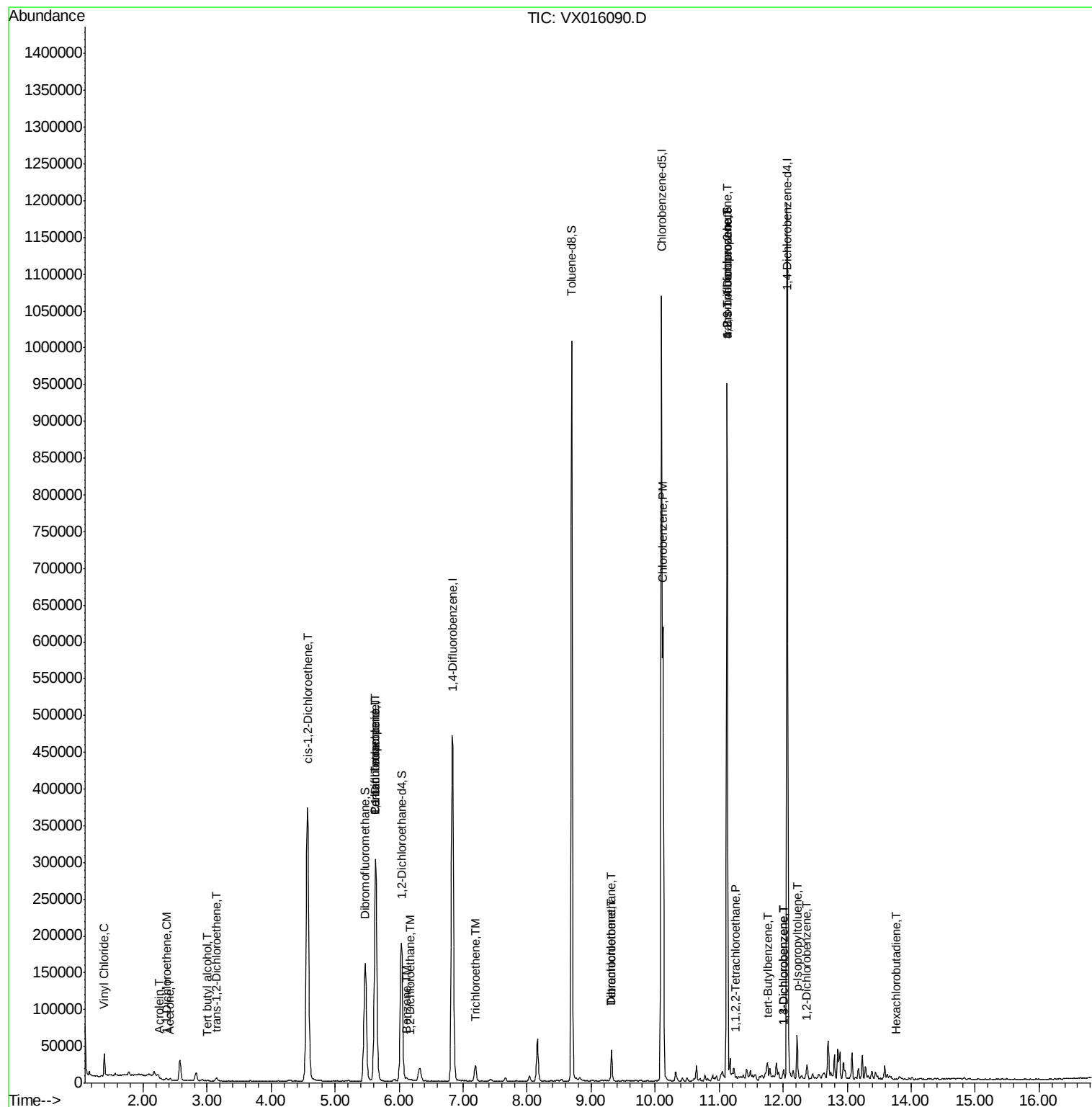
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	18167	4.683	ug/l	97
11) Tert butyl alcohol	3.00	59	733	0.745	ug/l #	90
12) 1,1-Dichloroethene	2.36	96	912	0.297	ug/l #	72
13) Acrolein	2.26	56	407	0.661	ug/l #	14
16) Acetone	2.42	43	2074	1.194	ug/l	94
21) trans-1,2-Dichloroethene	3.15	96	1466	0.428	ug/l #	77
27) cis-1,2-Dichloroethene	4.57	96	241763	64.537	ug/l	89
36) 1,1-Dichloropropene	5.64	75	21689	4.557	ug/l #	50
38) Carbon Tetrachloride	5.63	117	28190	5.827	ug/l #	14
40) Benzene	6.12	78	4037	0.290	ug/l	93
42) 1,2-Dichloroethane	6.17	62	2111	0.421	ug/l	99
44) Trichloroethene	7.20	130	7847	1.586	ug/l	99
60) Dibromochloromethane	9.32	129	7172	1.907	ug/l #	11
64) Tetrachloroethene	9.32	164	7964	1.384	ug/l	86
65) Chlorobenzene	10.12	112	252864	25.763	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.26	83	215	2.114	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	119845	21.513	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	119845	51.267	ug/l #	13
83) tert-Butylbenzene	11.76	119	6753	0.520	ug/l	94
86) p-Isopropyltoluene	12.22	119	25474	1.564	ug/l	96
87) 1,3-Dichlorobenzene	12.01	146	2575	0.311	ug/l	92
88) 1,4-Dichlorobenzene	12.01	146	2575	0.307	ug/l	91
91) 1,2-Dichlorobenzene	12.38	146	2902	0.364	ug/l	94
94) Hexachlorobutadiene	13.77	225	207	0.604	ug/l #	52

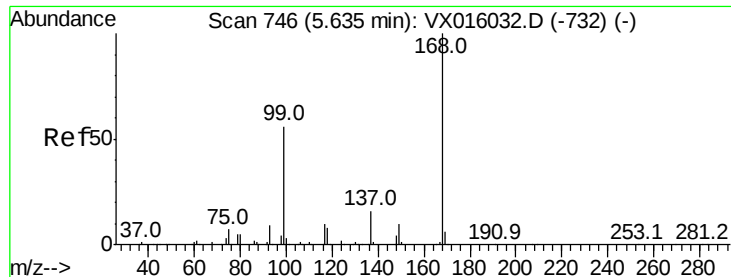
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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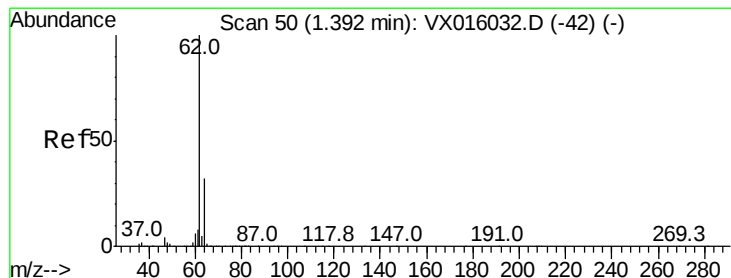
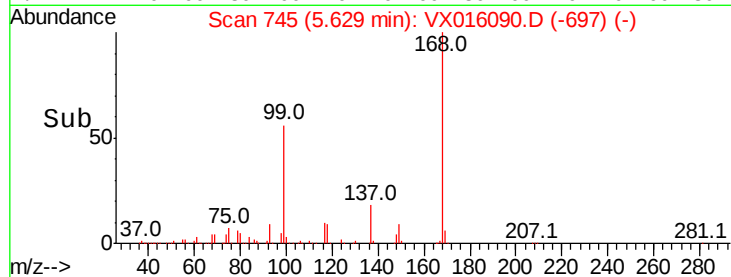
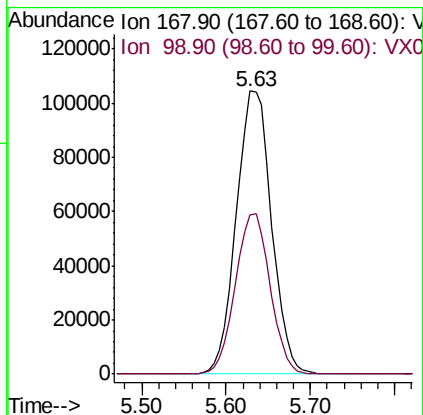
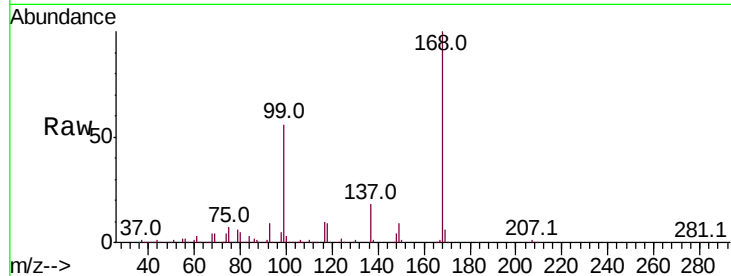


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VX016090.D
 Acq: 07 May 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS038RW082-200503

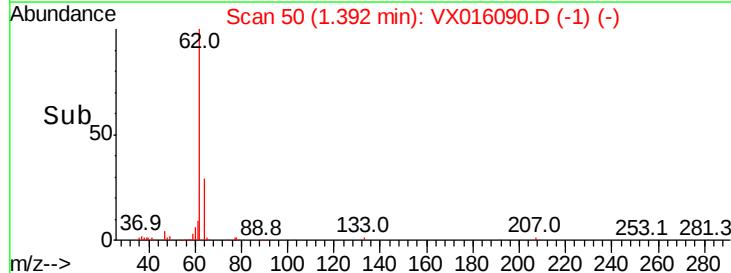
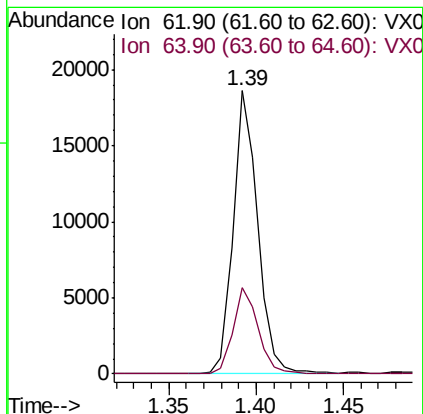
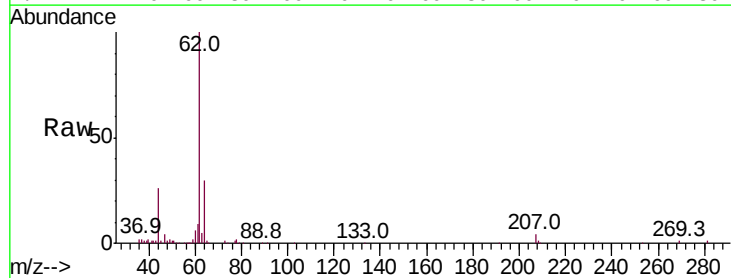
Tot Ion:168 Resp: 295806
 Ion Ratio Lower Upper
 168 100
 99 56.1 45.0 67.4

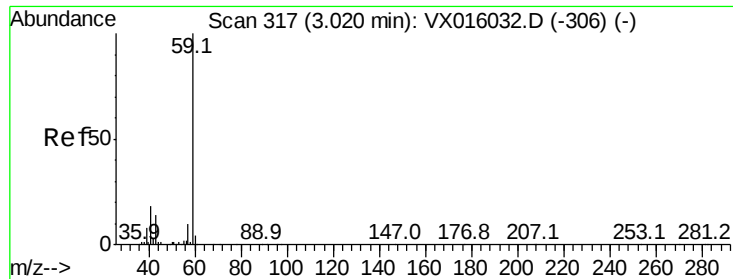


#4

Vinyl Chloride
 Concen: 4.683 ug/l
 RT: 1.39 min Scan# 50
 Delta R.T. -0.00 min
 Lab File: VX016090.D
 Acq: 07 May 2020 13:47

Tgt Ion: 62 Resp: 18167
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.7 38.5



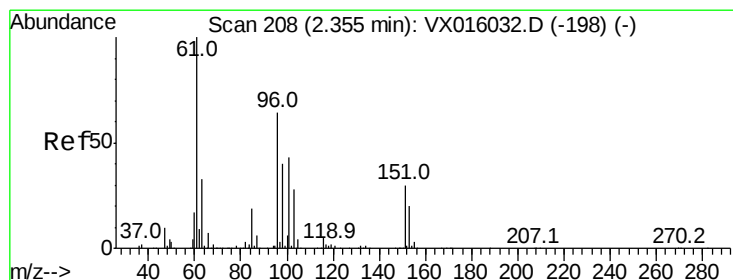
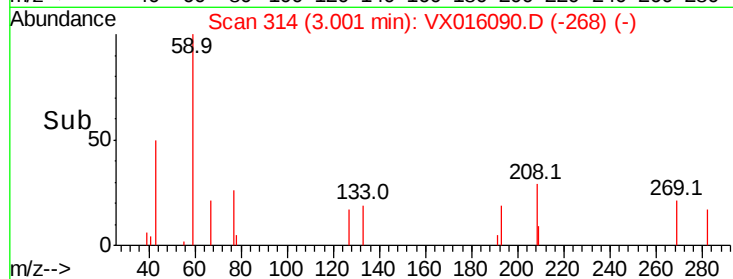
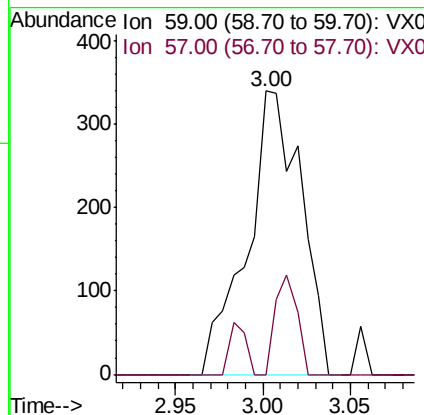
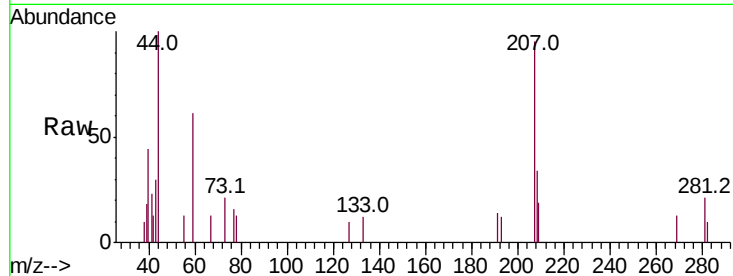


#11

Tert butyl alcohol
Concen: 0.745 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016090.D
Acq: 07 May 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
SS038RW082-200503

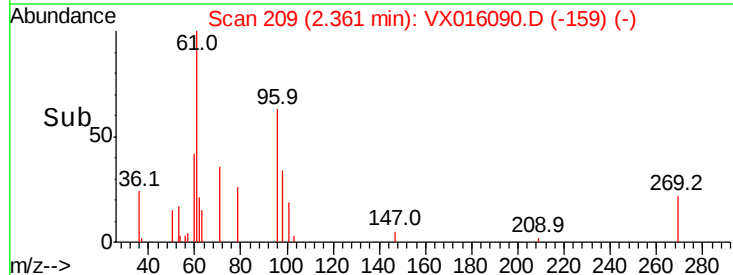
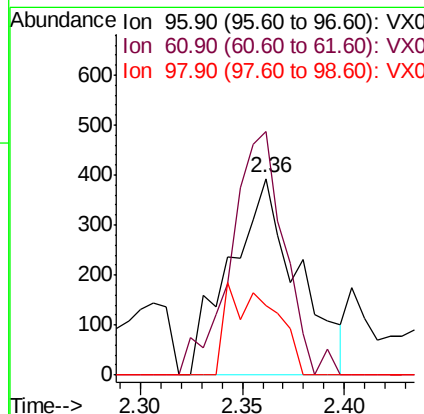
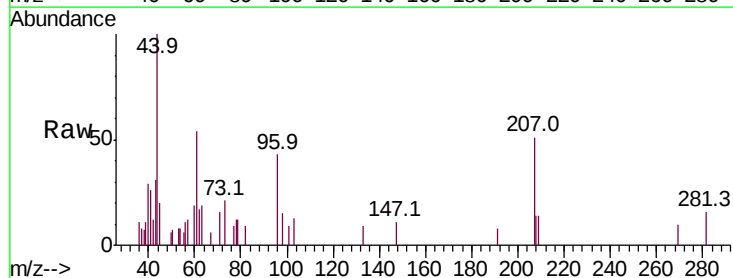
Tot Ion: 59 Resp: 733
Ion Ratio Lower Upper
59 100
57 14.2 8.2 12.4#

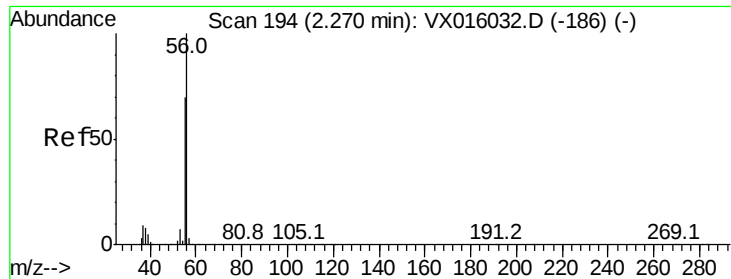


#12

1,1-Dichloroethene
Concen: 0.297 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX016090.D
Acq: 07 May 2020 13:47

Tgt Ion: 96 Resp: 912
Ion Ratio Lower Upper
96 100
61 123.9 124.8 187.2#
98 35.1 49.7 74.5#





#13

Acrolein

Concen: 0.661 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

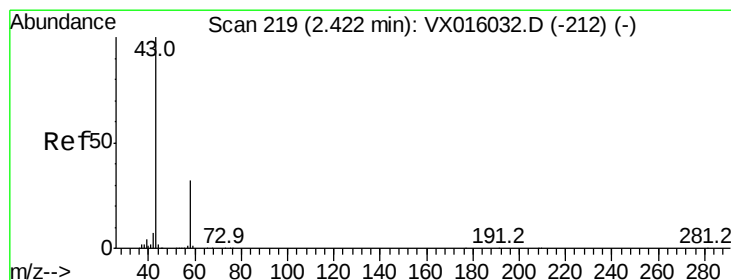
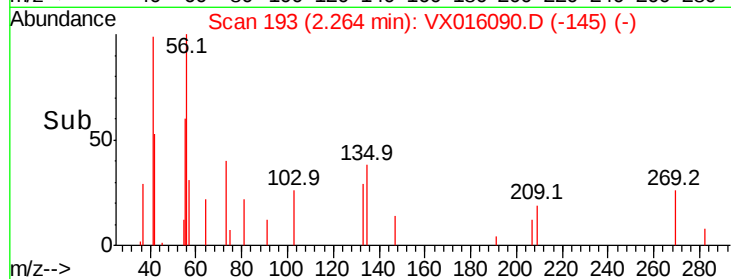
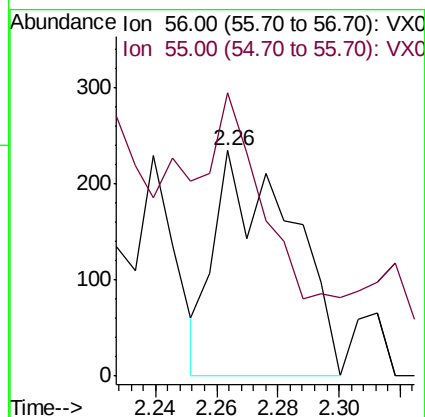
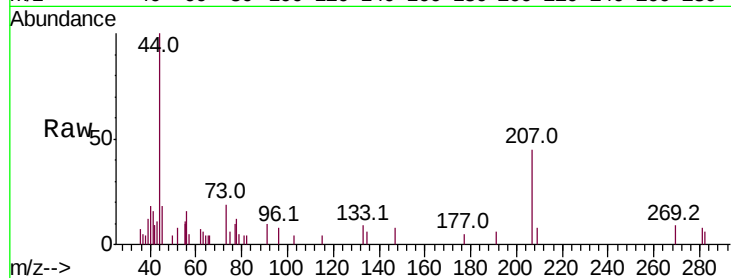
SS038RW082-200503

Tot Ion: 56 Resp: 407

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



#16

Acetone

Concen: 1.194 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016090.D

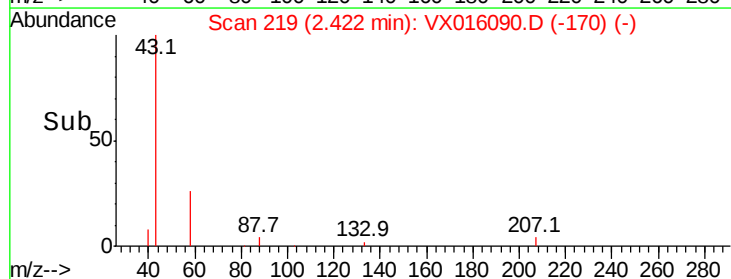
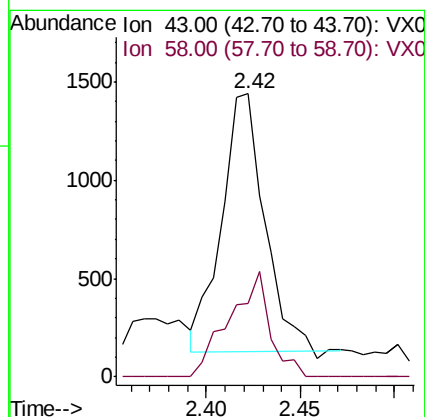
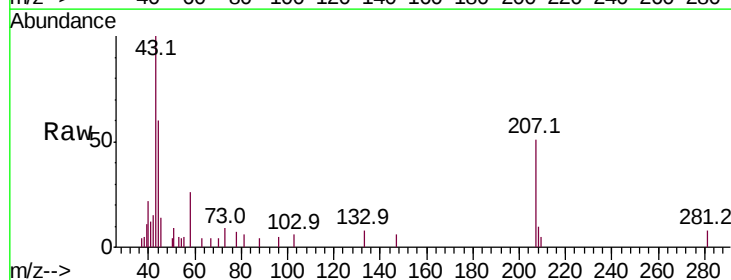
Acq: 07 May 2020 13:47

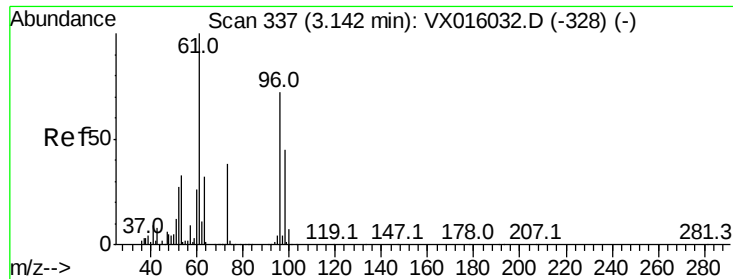
Tgt Ion: 43 Resp: 2074

Ion Ratio Lower Upper

43 100

58 28.6 25.4 38.0





#21

trans-1,2-Dichloroethene

Concen: 0.428 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

SS038RW082-200503

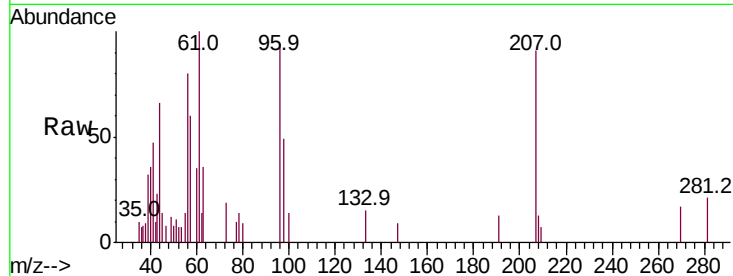
Tot Ion: 96 Resp: 1466

Ion Ratio Lower Upper

96 100

61 106.5 111.2 166.8#

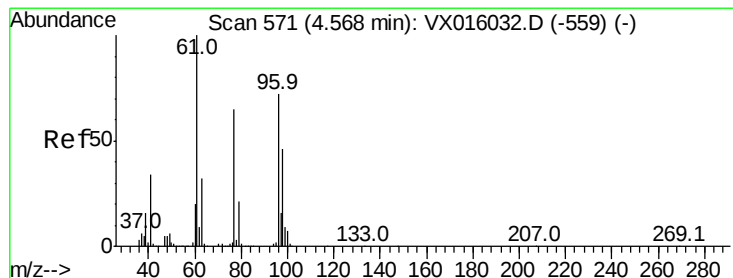
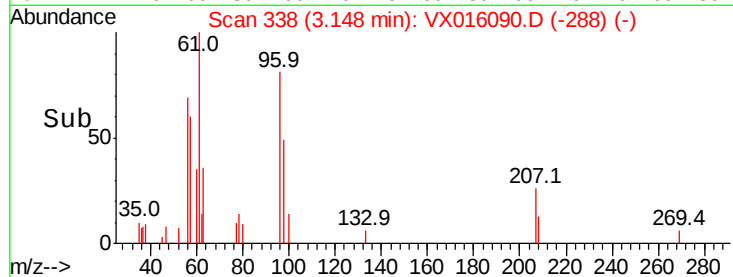
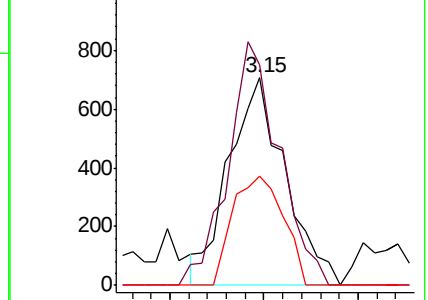
98 52.5 50.2 75.4



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



#27

cis-1,2-Dichloroethene

Concen: 64.537 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

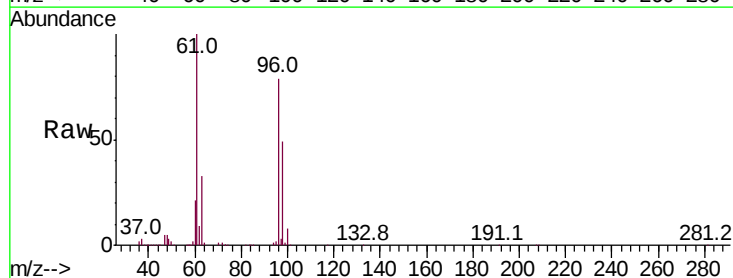
Tgt Ion: 96 Resp: 241763

Ion Ratio Lower Upper

96 100

61 128.0 0.0 296.2

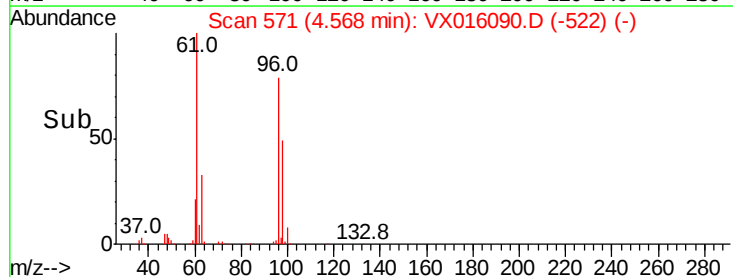
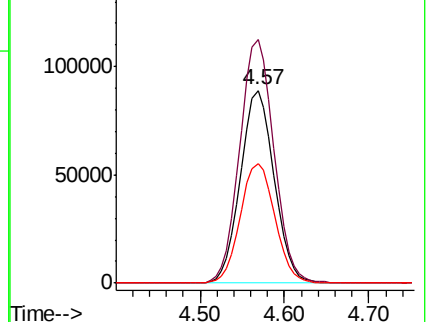
98 63.7 0.0 129.4

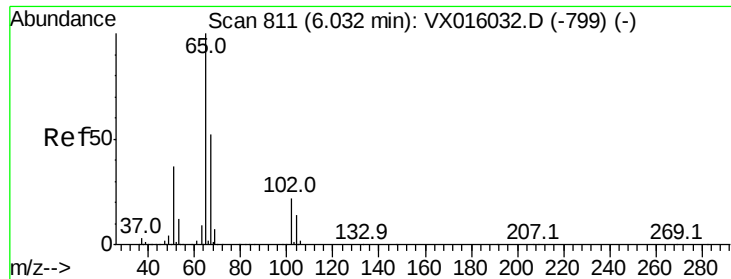


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.806 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

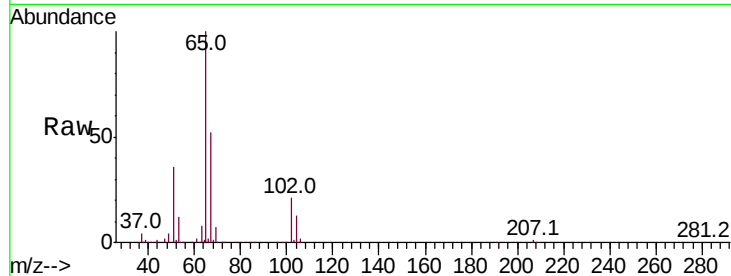
SS038RW082-200503

Tot Ion: 65 Resp: 182193

Ion Ratio Lower Upper

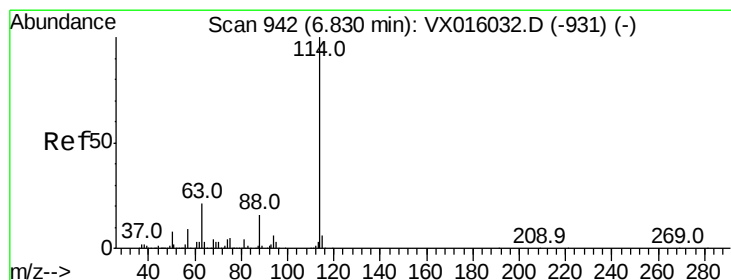
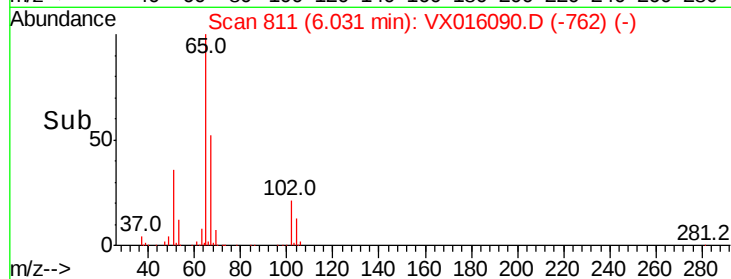
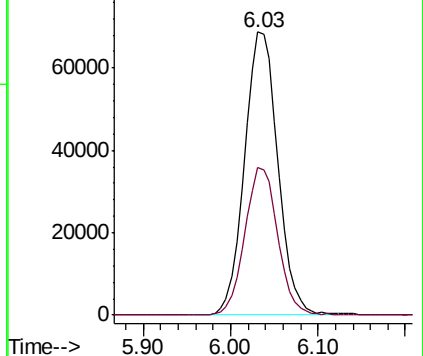
65 100

67 51.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

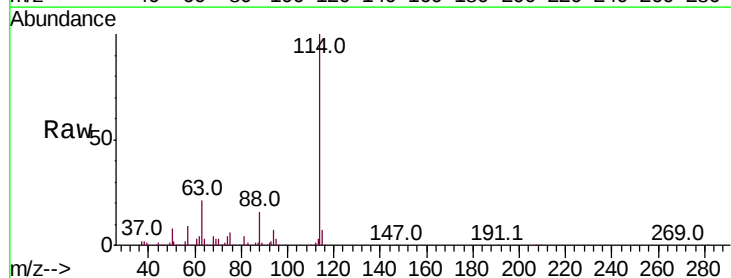
Tgt Ion: 114 Resp: 483538

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.8

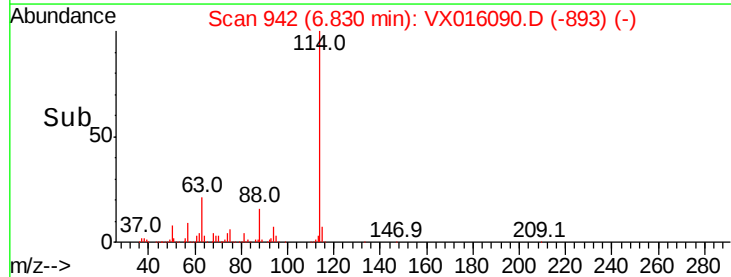
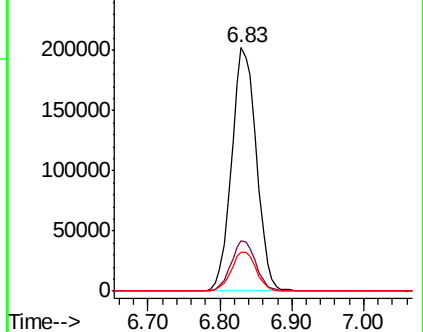
88 16.0 0.0 31.4

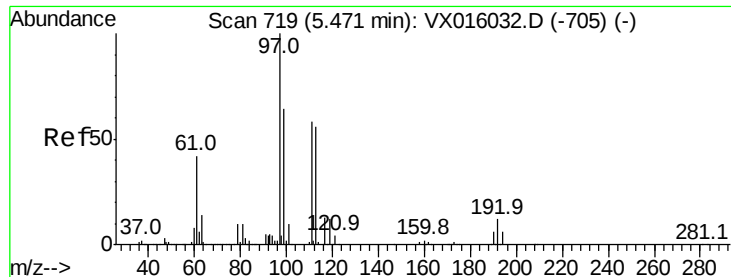


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

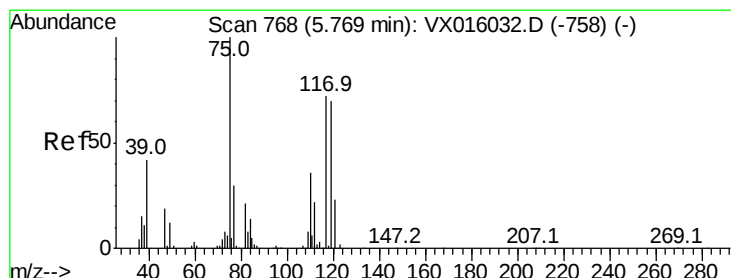
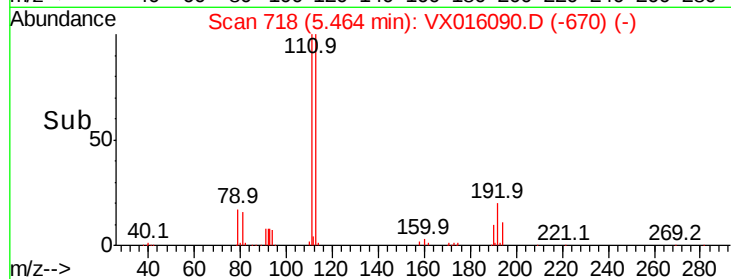
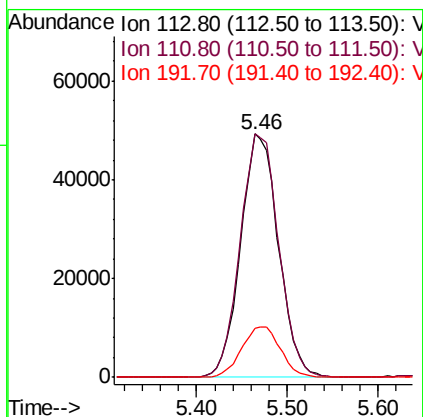
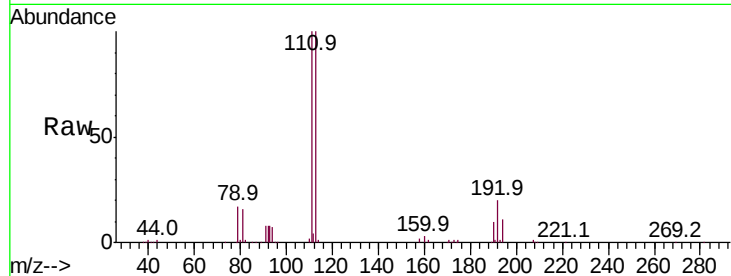




#35
 Dibromofluoromethane
 Concen: 46.432 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX016090.D
 Acq: 07 May 2020 13:47

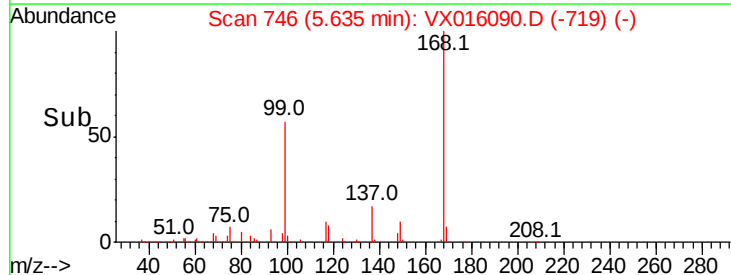
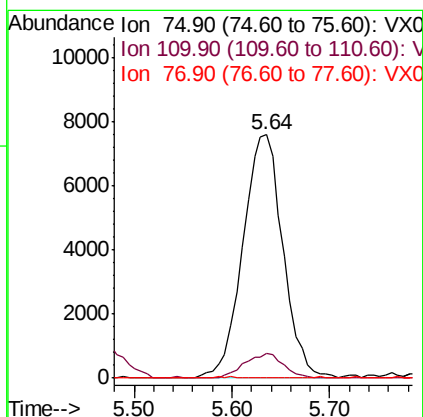
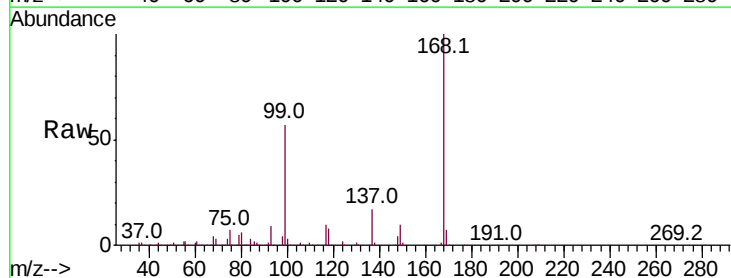
Instrument :
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 SS038RW082-200503

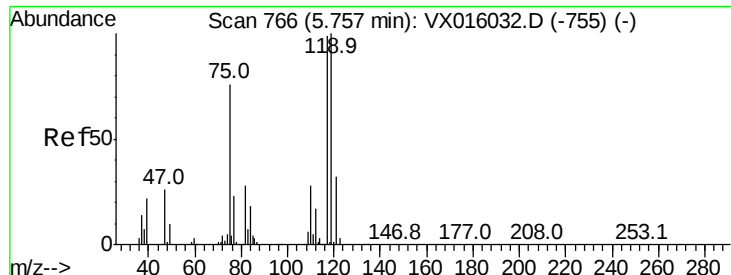
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.6	122.4
192	21.3	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.557 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016090.D
 Acq: 07 May 2020 13:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.1	54.1#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.827 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

SS038RW082-200503

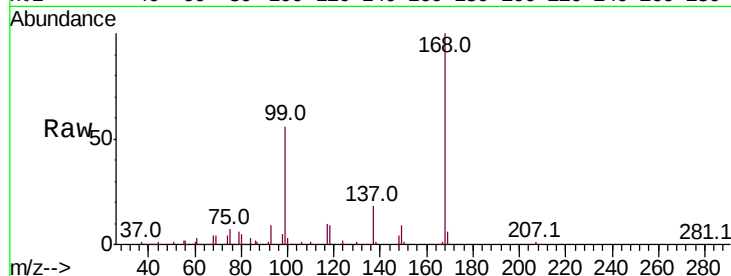
Tot Ion:117 Resp: 28190

Ion Ratio Lower Upper

117 100

119 4.5 80.3 120.5#

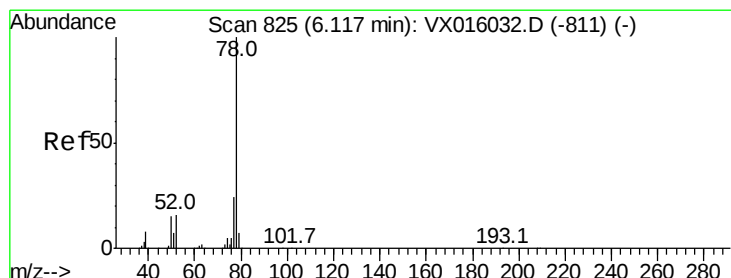
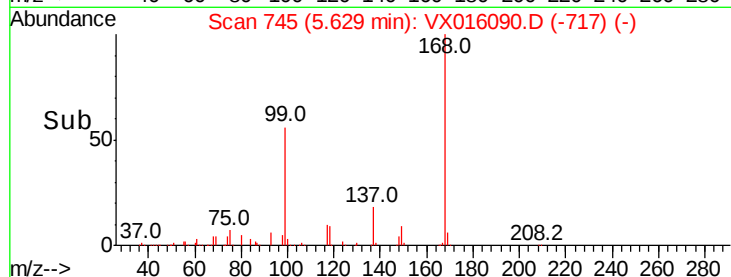
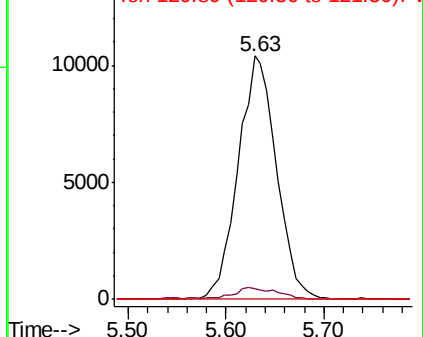
121 0.0 25.7 38.5#



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



#40

Benzene

Concen: 0.290 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX016090.D

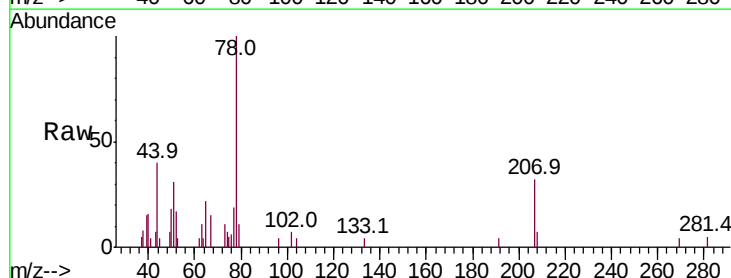
Acq: 07 May 2020 13:47

Tgt Ion: 78 Resp: 4037

Ion Ratio Lower Upper

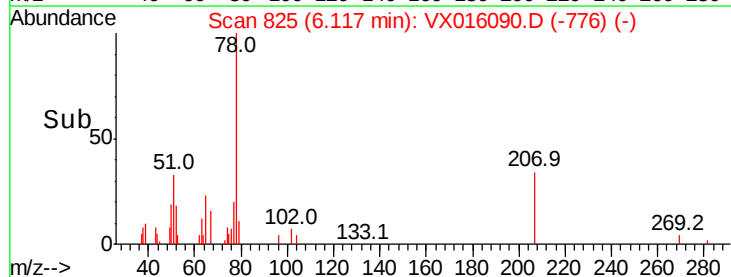
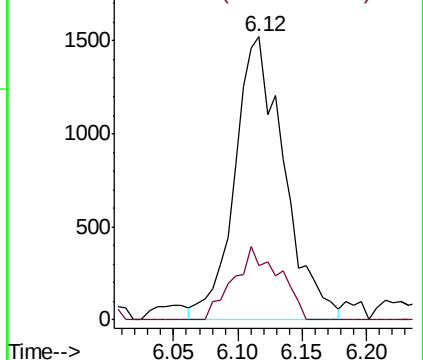
78 100

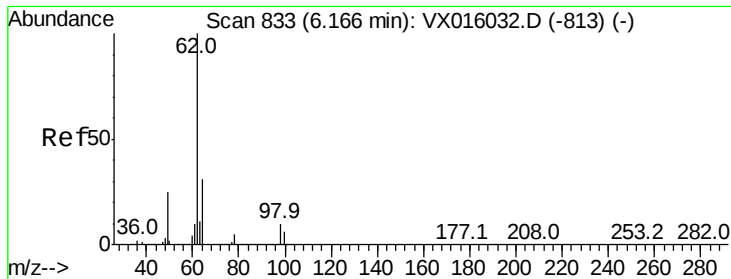
77 20.1 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.421 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

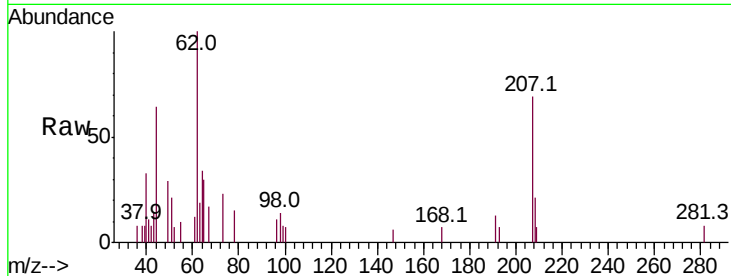
SS038RW082-200503

Tot Ion: 62 Resp: 2111

Ion Ratio Lower Upper

62 100

98 10.0 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.17

800

600

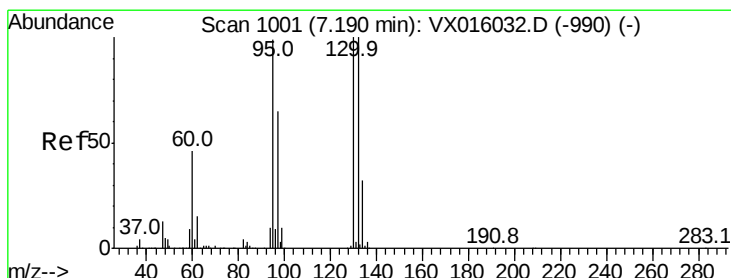
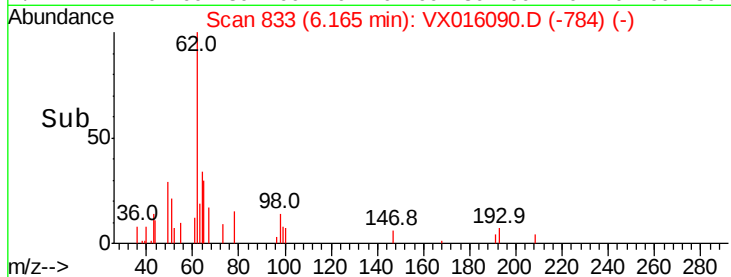
400

200

0

6.05 6.10 6.15 6.20 6.25

Time-->



#44

Trichloroethene

Concen: 1.586 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016090.D

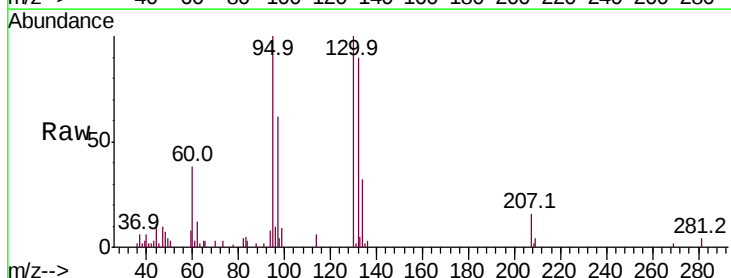
Acq: 07 May 2020 13:47

Tgt Ion:130 Resp: 7847

Ion Ratio Lower Upper

130 100

95 99.8 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

4000

3000

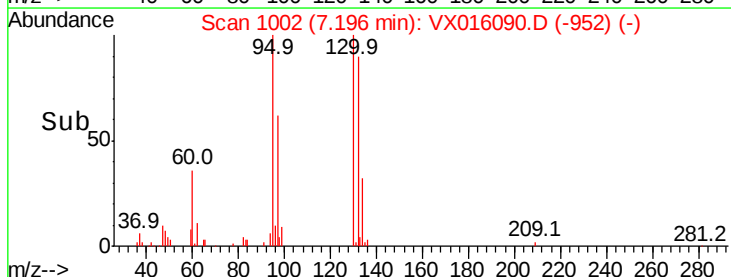
2000

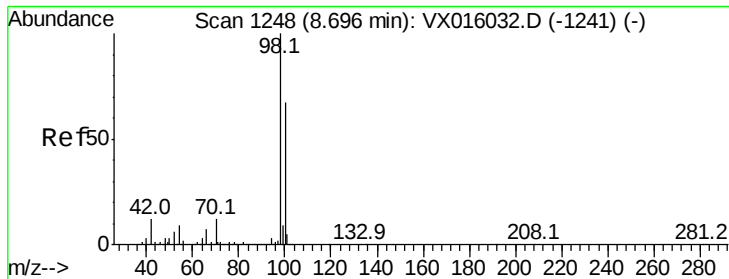
1000

0

7.10 7.15 7.20 7.25 7.30

Time-->

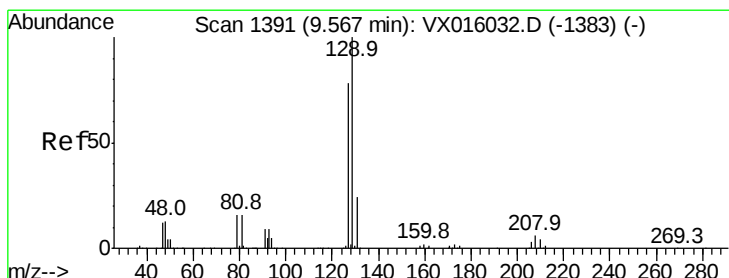
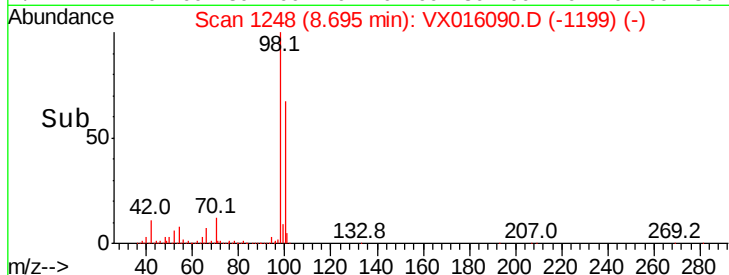
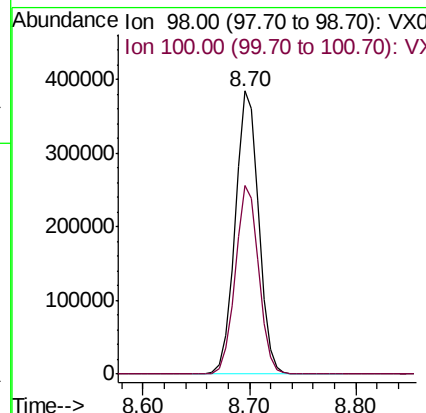
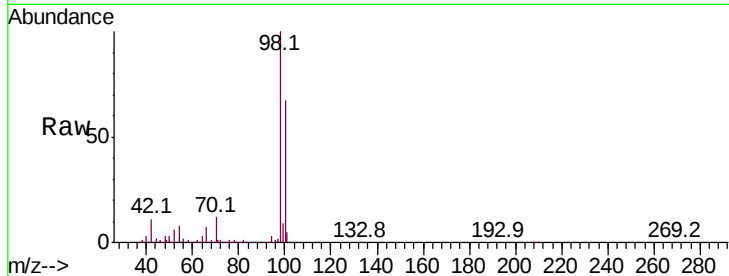




#50
Toluene-d8
Concen: 50.417 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016090.D
Acq: 07 May 2020 13:47

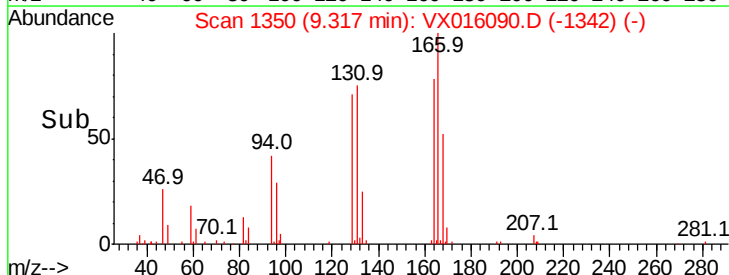
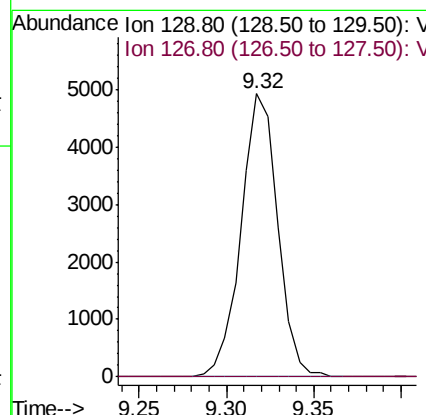
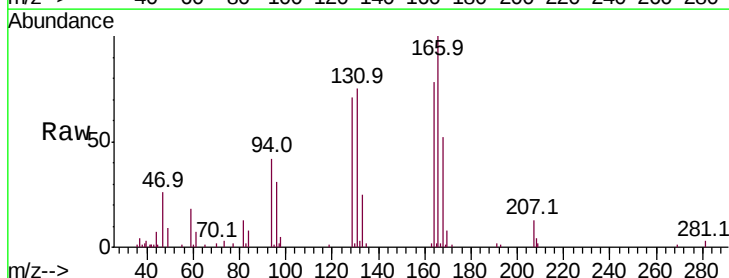
Instrument :
MSVOA_X
ClientSampleId :
SS038RW082-200503

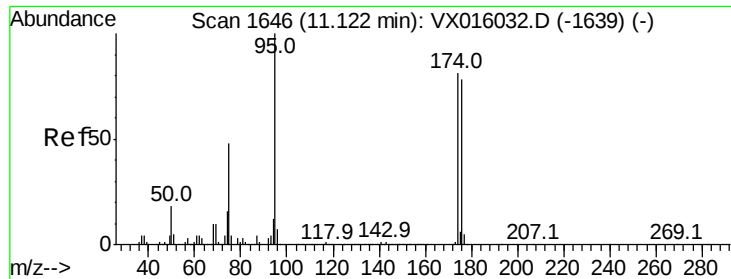
Tot Ion: 98 Resp: 595098
Ion Ratio Lower Upper
98 100
100 66.4 53.7 80.5



#60
Dibromochloromethane
Concen: 1.907 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.25 min
Lab File: VX016090.D
Acq: 07 May 2020 13:47

Tgt Ion:129 Resp: 7172
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

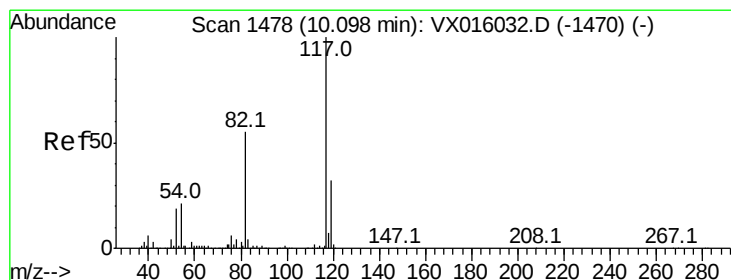
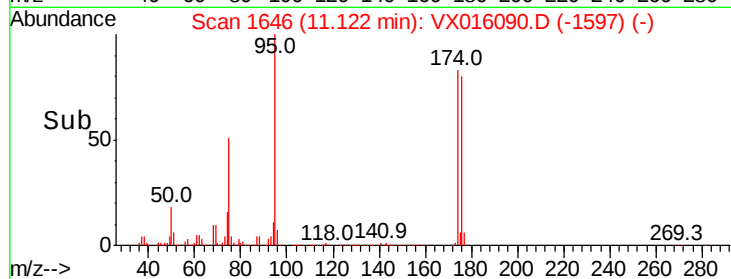
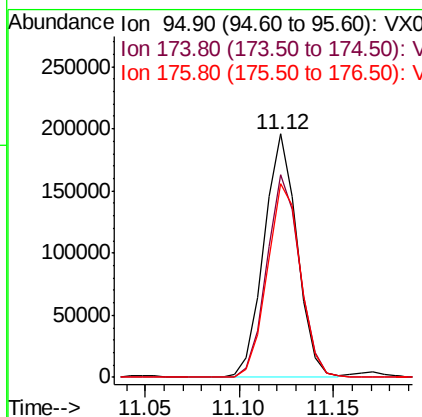
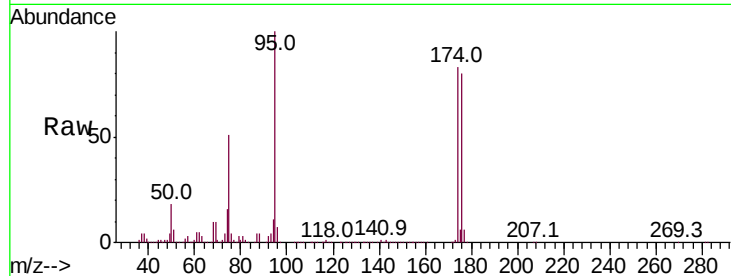




#62
4-Bromofluorobenzene
Concen: 53.010 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016090.D
Acq: 07 May 2020 13:47

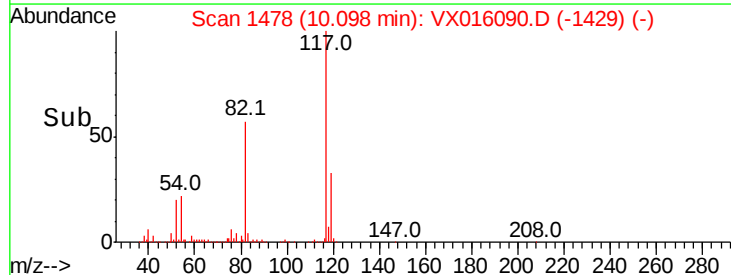
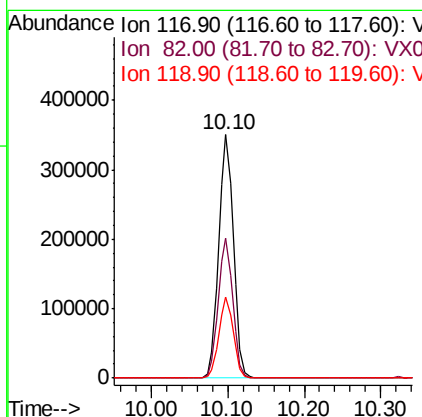
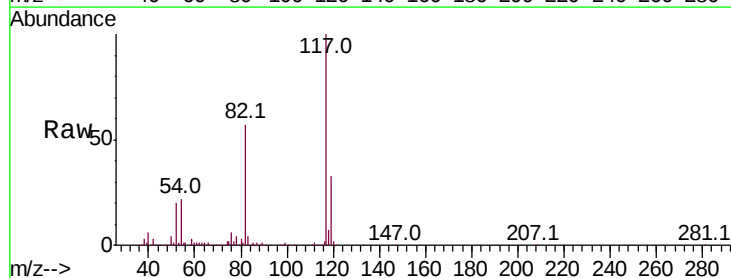
Instrument :
MSVOA_X
ClientSampleId :
SS038RW082-200503

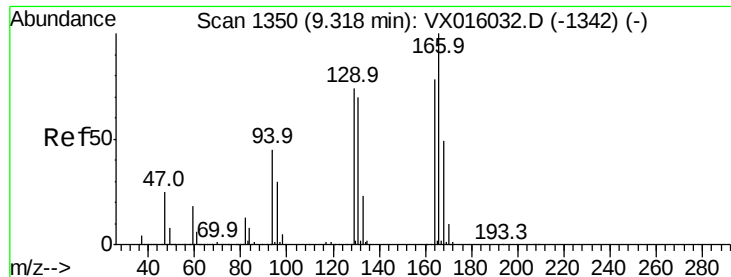
Tot Ion: 95 Resp: 237989
Ion Ratio Lower Upper
95 100
174 83.2 0.0 159.4
176 80.5 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016090.D
Acq: 07 May 2020 13:47

Tgt Ion: 117 Resp: 468752
Ion Ratio Lower Upper
117 100
82 57.3 44.4 66.6
119 33.0 25.5 38.3





#64

Tetrachloroethene

Concen: 1.384 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

SS038RW082-200503

Tot Ion:164 Resp: 7964

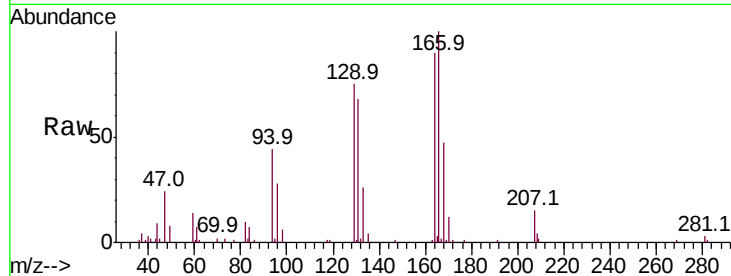
Ion Ratio Lower Upper

164 100

166 111.1 102.9 154.3

129 82.9 76.1 114.1

131 75.6 71.9 107.9

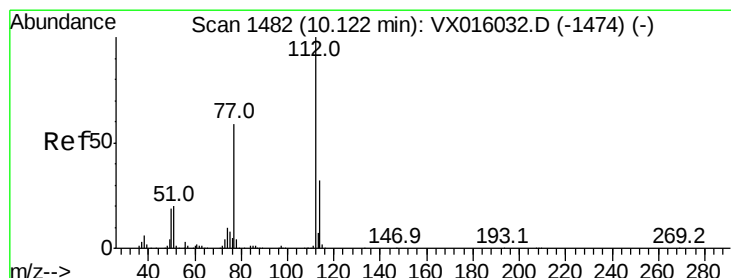
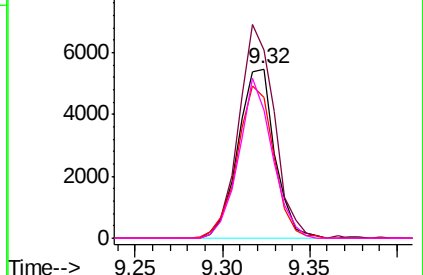
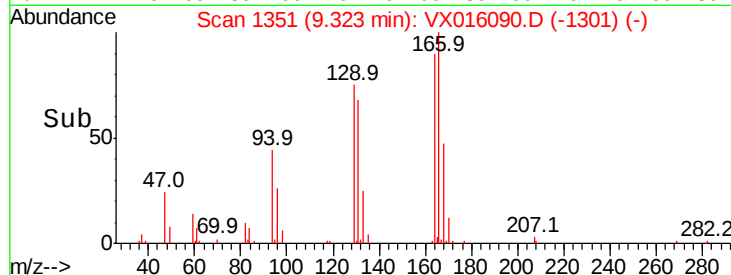


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 25.763 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX016090.D

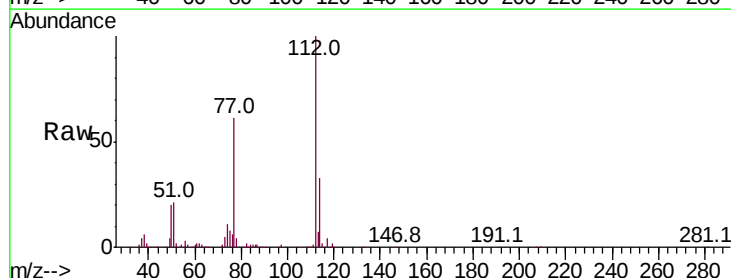
Acq: 07 May 2020 13:47

Tgt Ion:112 Resp: 252864

Ion Ratio Lower Upper

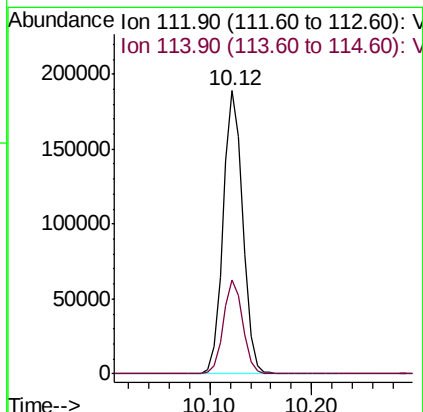
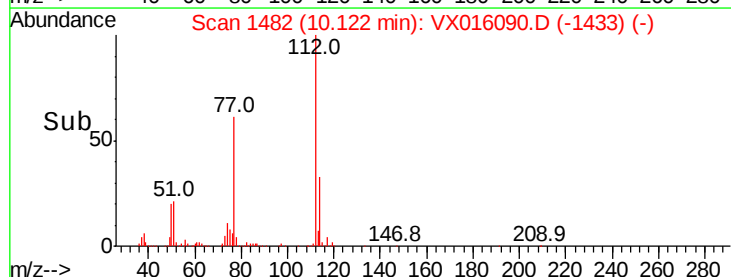
112 100

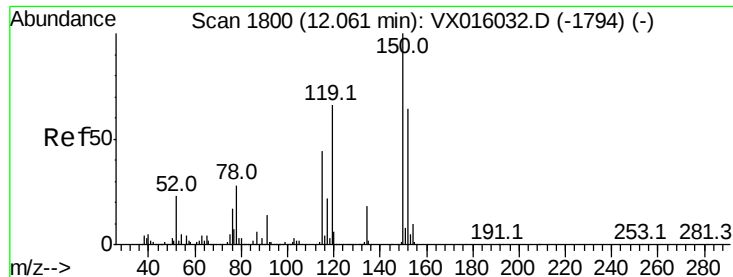
114 33.3 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

SS038RW082-200503

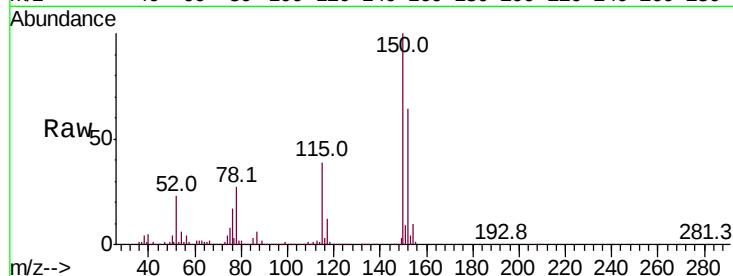
Tot Ion:152 Resp: 245493

Ion Ratio Lower Upper

152 100

115 59.9 41.3 124.1

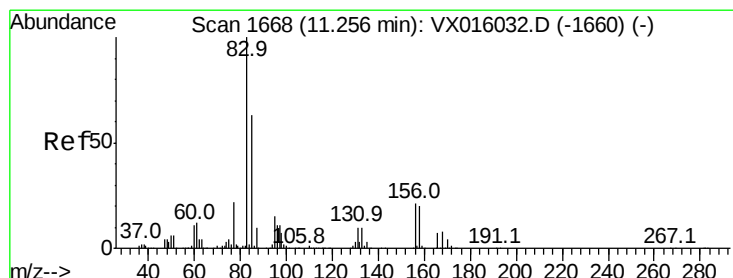
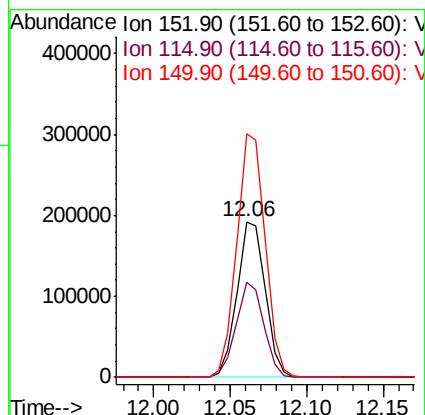
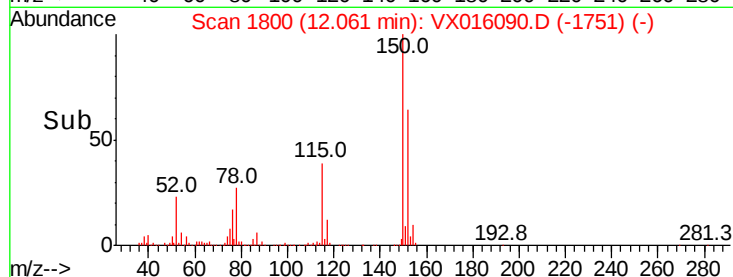
150 158.0 0.0 352.2



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: 2.114 ug/l

RT: 11.26 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

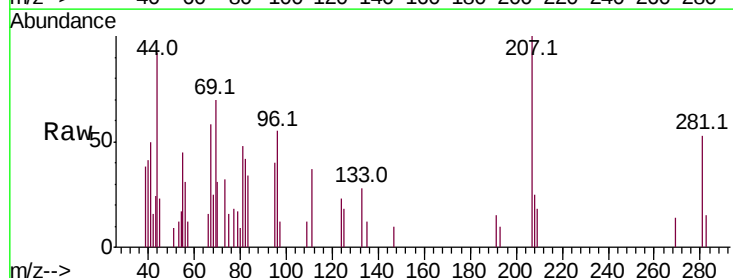
Tgt Ion: 83 Resp: 215

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

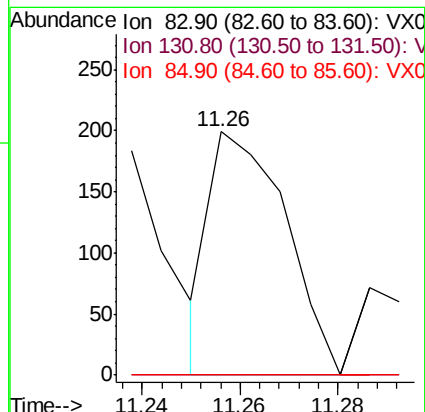
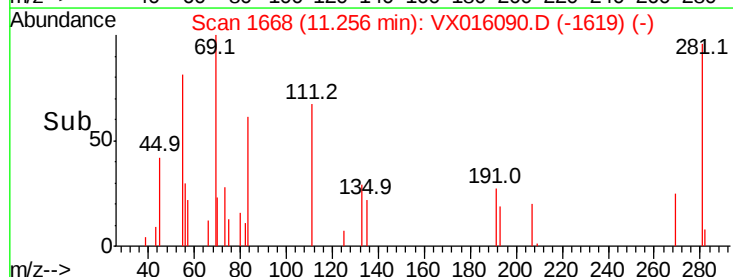
85 0.0 32.0 96.0#

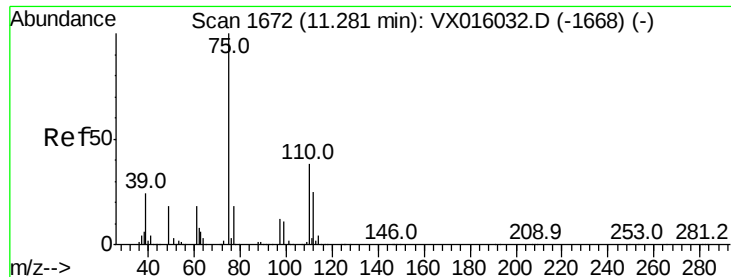


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.513 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

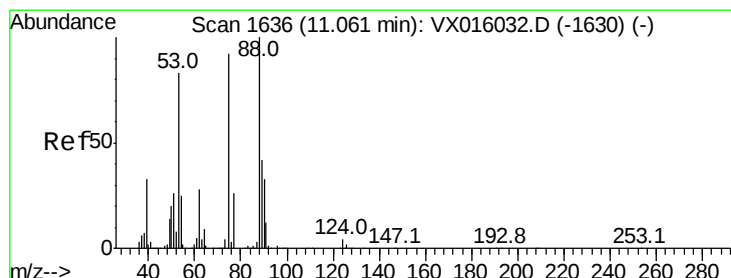
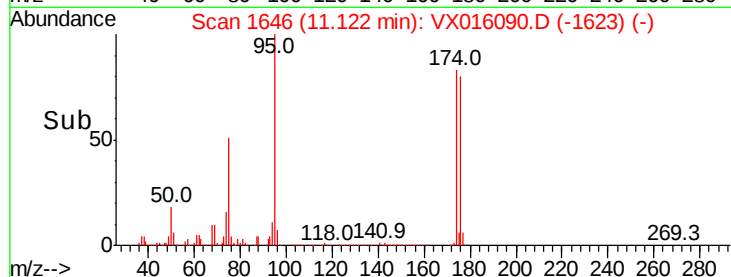
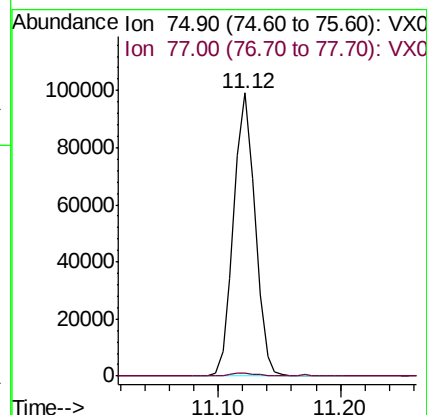
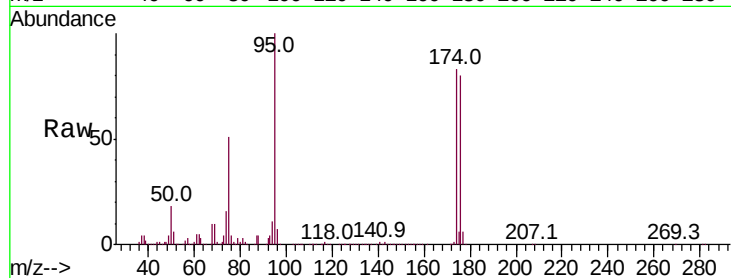
SS038RW082-200503

Tot Ion: 75 Resp: 119845

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.267 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

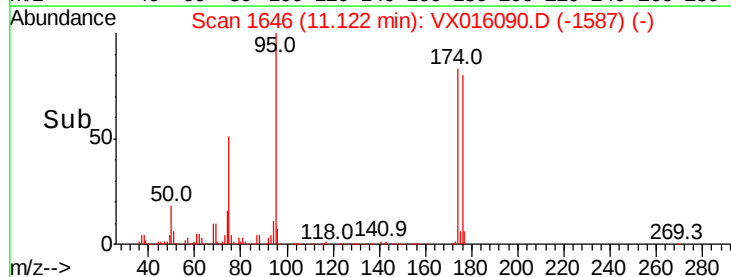
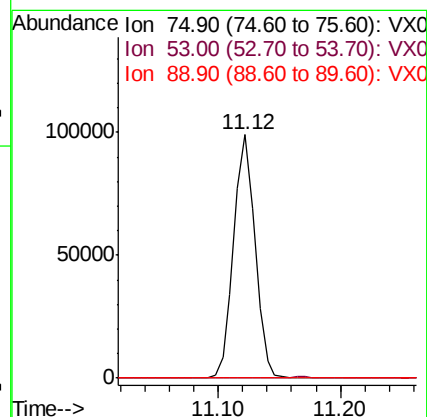
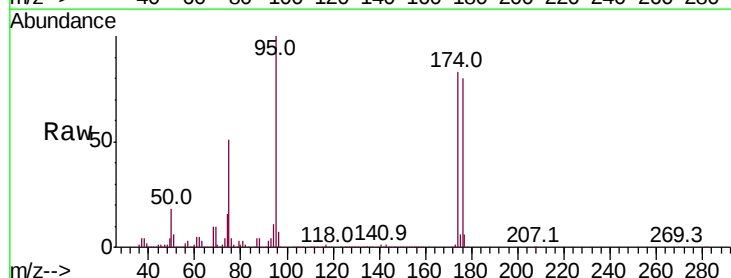
Tgt Ion: 75 Resp: 119845

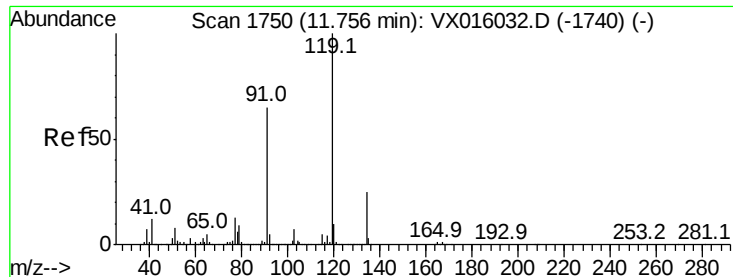
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#83

tert-Butylbenzene

Concen: 0.520 ug/l

RT: 11.76 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

SS038RW082-200503

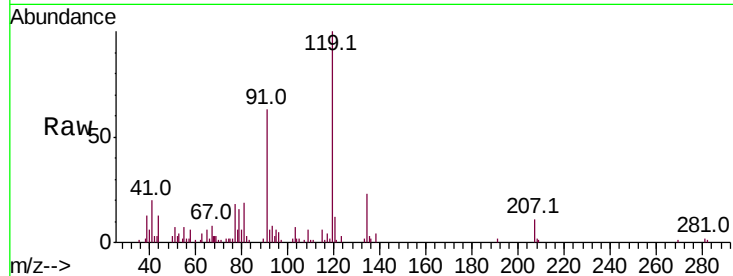
Tot Ion:119 Resp: 6753

Ion Ratio Lower Upper

119 100

91 71.3 32.8 98.4

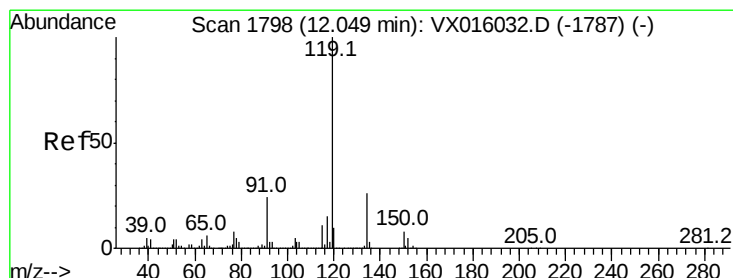
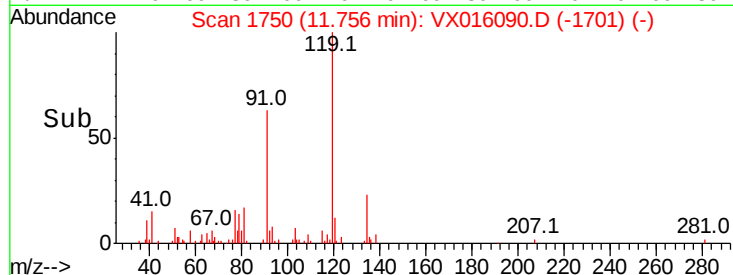
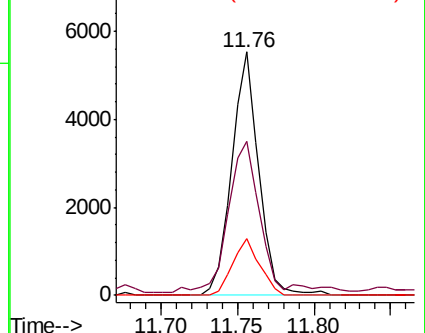
134 23.2 12.4 37.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.564 ug/l

RT: 12.22 min Scan# 1826

Delta R.T. 0.17 min

Lab File: VX016090.D

Acq: 07 May 2020 13:47

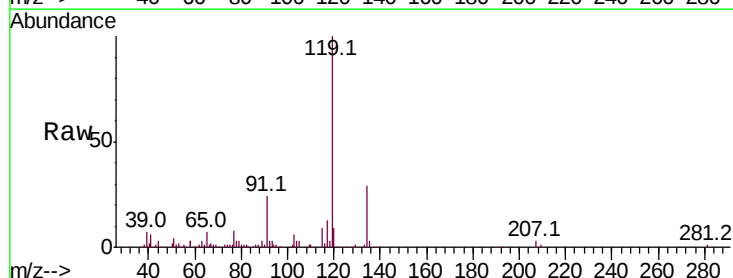
Tgt Ion:119 Resp: 25474

Ion Ratio Lower Upper

119 100

134 28.3 13.1 39.3

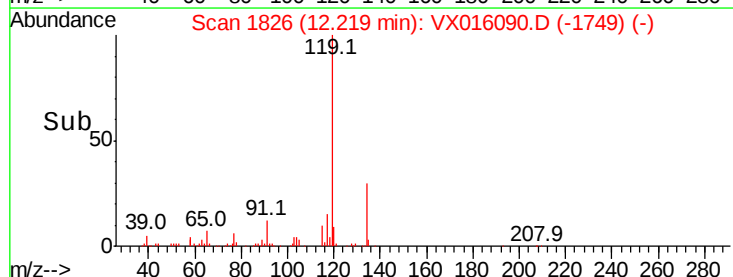
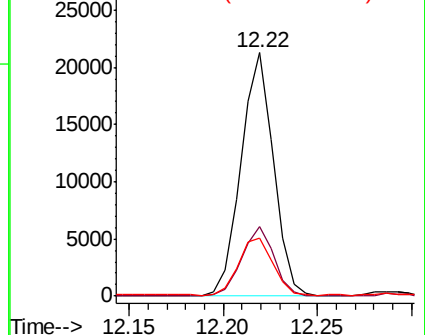
91 25.2 11.8 35.4

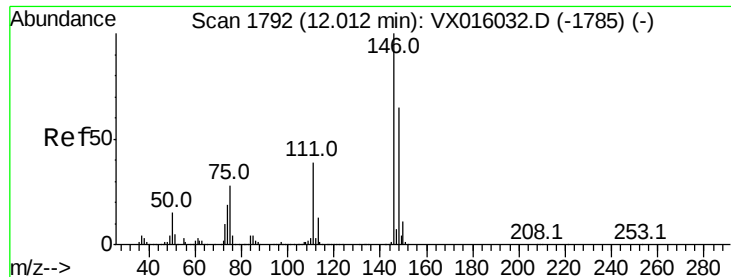


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#87

1,3-Dichlorobenzene

Concen: 0.311 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

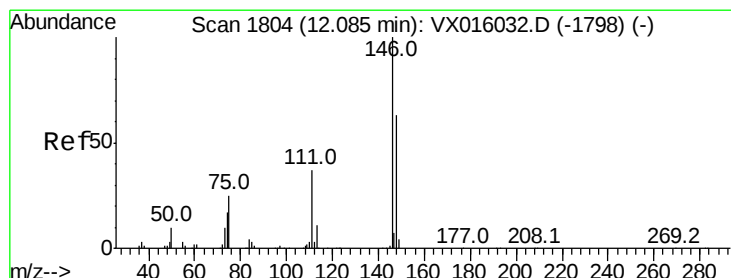
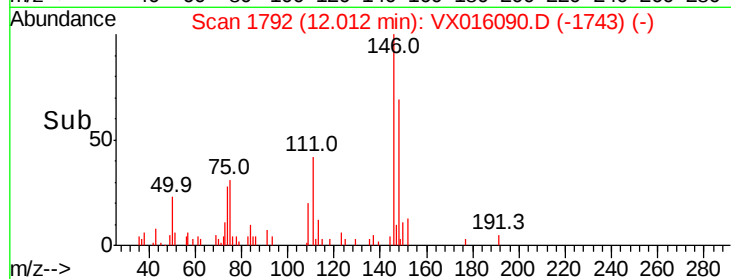
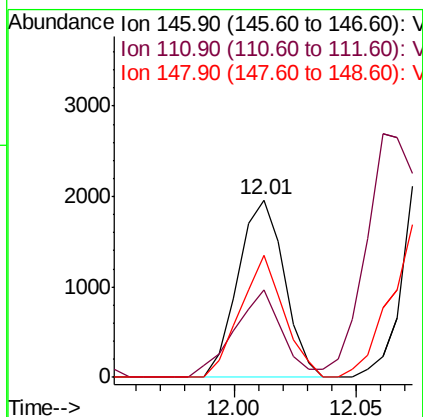
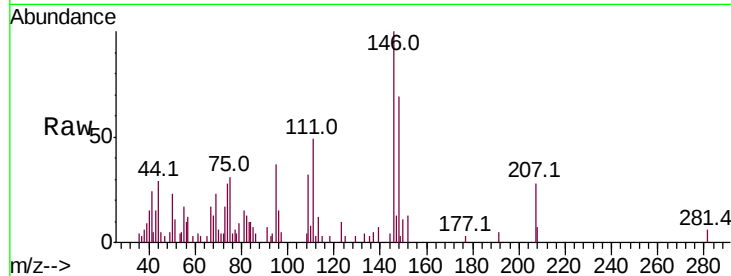
Lab File: VX016090.D

Acq: 07 May 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
SS038RW082-200503

Tot Ion:146 Resp: 2575

Ion	Ratio	Lower	Upper
146	100		
111	52.1	20.2	60.6
148	65.2	32.1	96.3



#88

1,4-Dichlorobenzene

Concen: 0.307 ug/l

RT: 12.01 min Scan# 1792

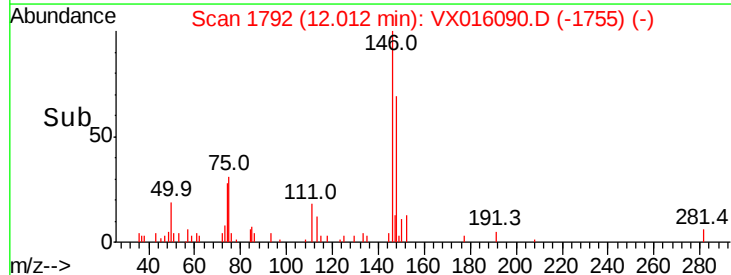
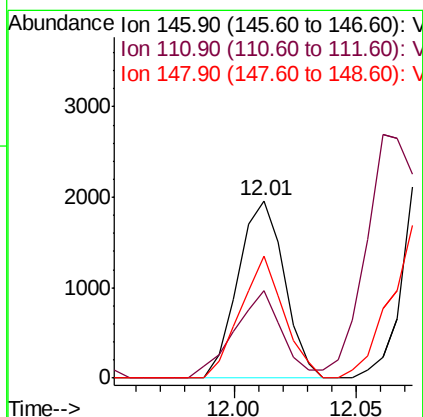
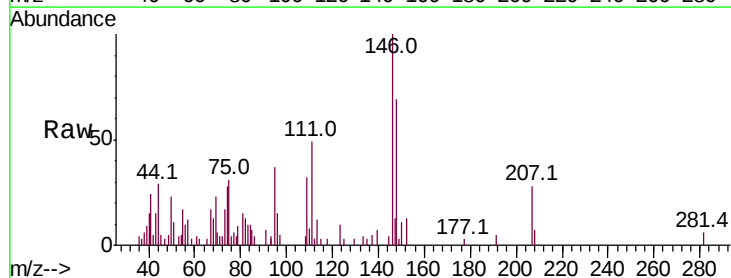
Delta R.T. -0.07 min

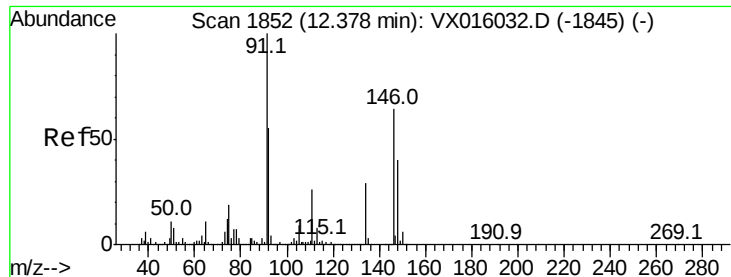
Lab File: VX016090.D

Acq: 07 May 2020 13:47

Tgt Ion:146 Resp: 2575

Ion	Ratio	Lower	Upper
146	100		
111	52.1	19.6	58.7
148	65.2	31.8	95.3

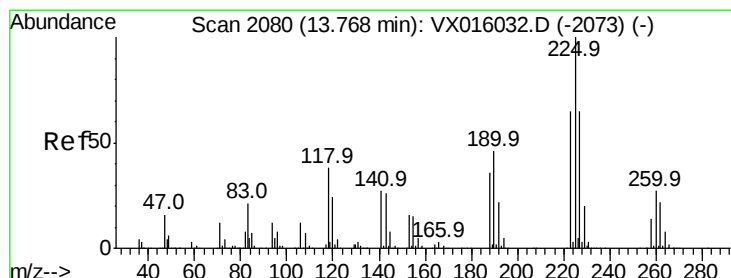
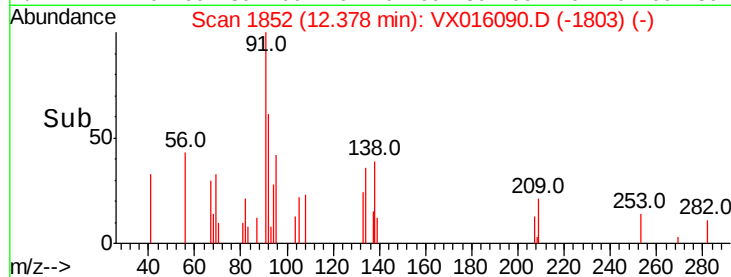
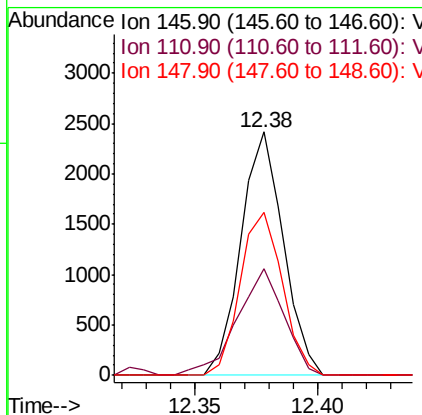
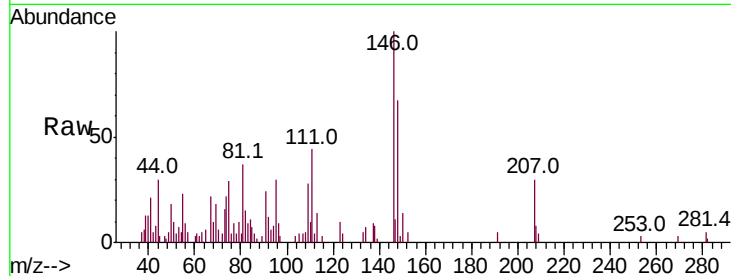




#91
 1,2-Dichlorobenzene
 Concen: 0.364 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX016090.D
 Acq: 07 May 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS038RW082-200503

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.5	21.1	63.1
148	66.7	32.4	97.0



#94
 Hexachlorobutadiene
 Concen: 0.604 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016090.D
 Acq: 07 May 2020 13:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	10.1	32.3	96.9#
227	43.0	31.8	95.4

