

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016176.D
 Acq On : 13 May 2020 13:58
 Operator : JC/SP
 Sample : L2597-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW710-200511

Quant Time: May 14 04:27:13 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	5.64	168	277881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	465437	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	461349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	231970	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	171577	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
35) Dibromofluoromethane	5.47	113	135599	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
50) Toluene-d8	8.70	98	573463	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.12	95	230016	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	

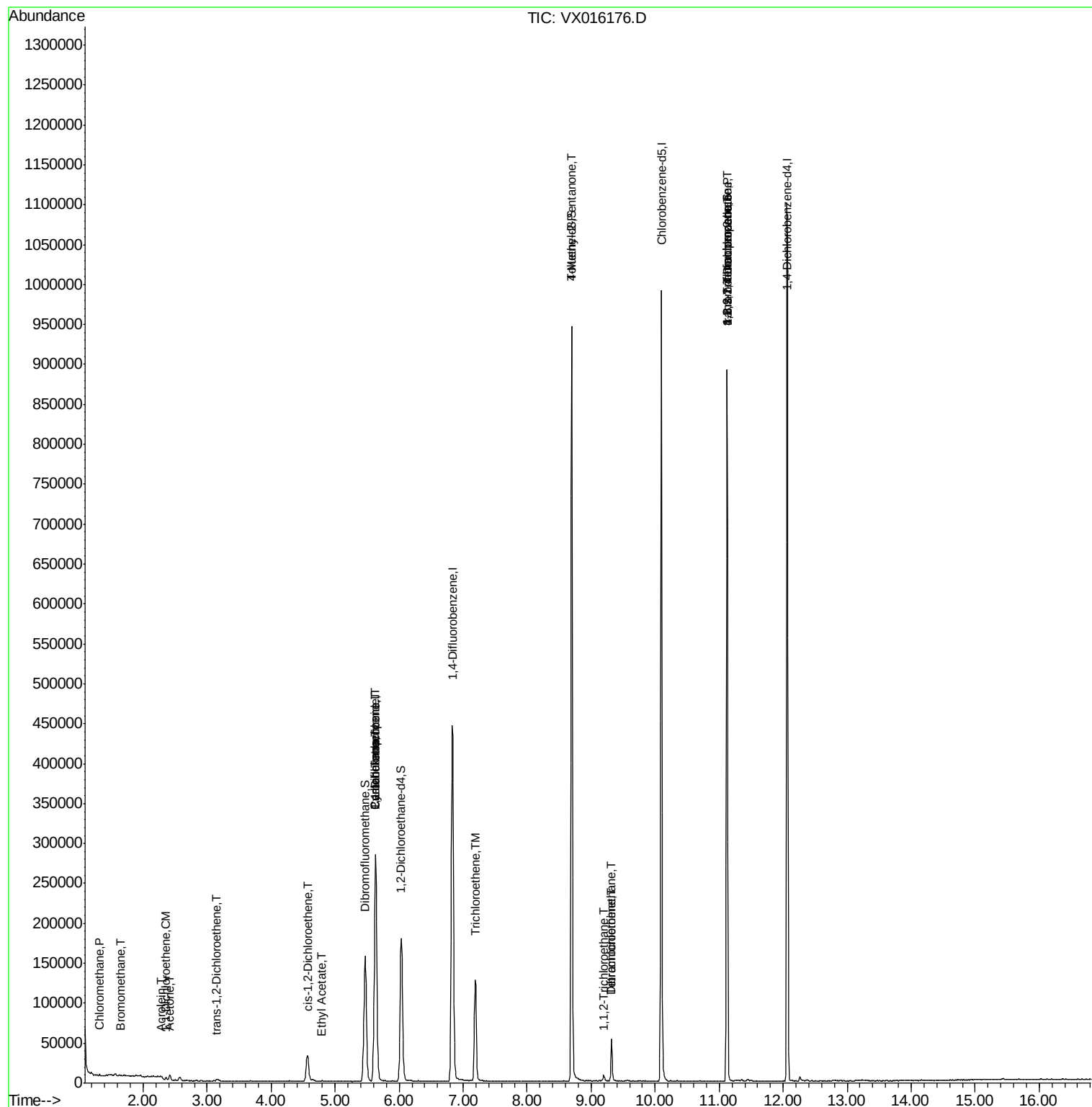
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1086	0.318	ug/l	94
5) Bromomethane	1.64	94	435	0.237	ug/l #	54
12) 1,1-Dichloroethene	2.36	96	1344	0.465	ug/l	93
13) Acrolein	2.28	56	347	0.600	ug/l #	55
16) Acetone	2.42	43	6400	3.923	ug/l	90
17) Carbon Disulfide	2.56	76	1243	Below Cal		97
21) trans-1,2-Dichloroethene	3.15	96	955	0.297	ug/l #	77
27) cis-1,2-Dichloroethene	4.57	96	21810	6.198	ug/l	87
31) Cyclohexane	5.63	56	5332	1.050	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20698	4.518	ug/l #	49
37) Ethyl Acetate	4.80	43	1446	0.272	ug/l #	74
38) Carbon Tetrachloride	5.63	117	26769	5.748	ug/l #	14
44) Trichloroethene	7.20	130	50298	10.561	ug/l	90
51) 4-Methyl-2-Pentanone	8.70	43	2318	0.447	ug/l #	1
55) 1,1,2-Trichloroethane	9.20	97	2193	0.667	ug/l	91
60) Dibromochloromethane	9.32	129	9524	2.630	ug/l #	11
64) Tetrachloroethene	9.32	164	10275	1.814	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.12	83	181	2.106	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	114293	21.712	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	114293	51.742	ug/l #	13

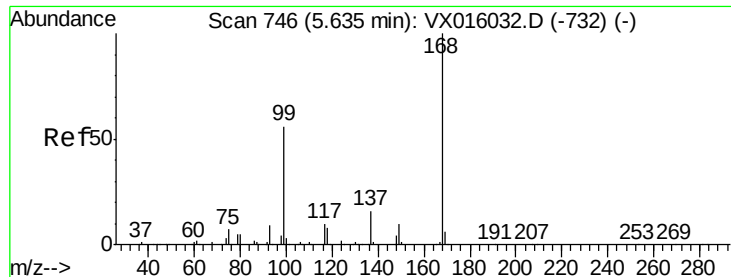
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

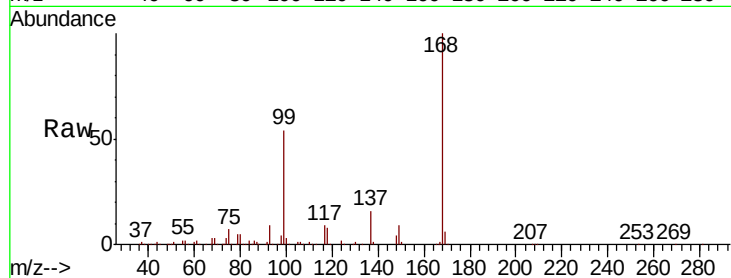
SS052MW710-200511

Tot Ion:168 Resp: 277881

Ion Ratio Lower Upper

168 100

99 54.0 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

100000

80000

60000

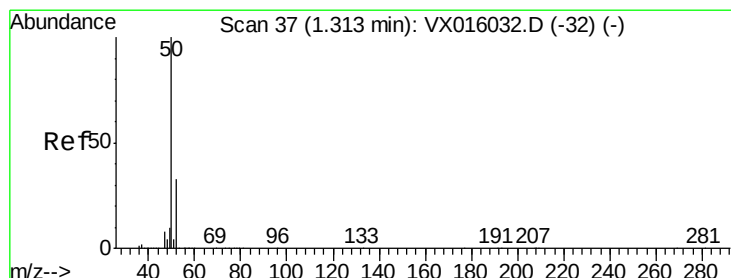
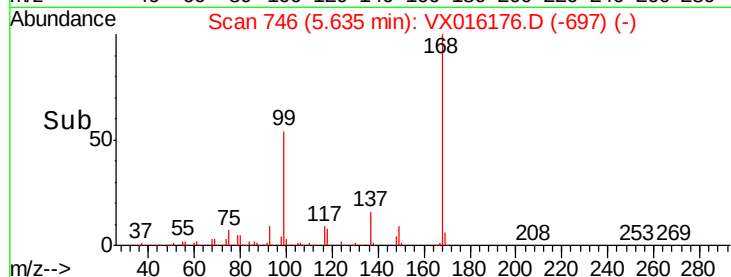
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.318 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016176.D

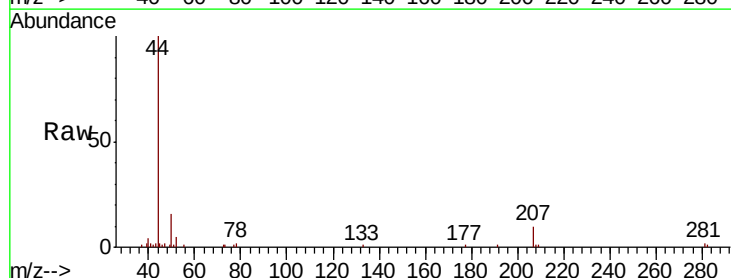
Acq: 13 May 2020 13:58

Tgt Ion: 50 Resp: 1086

Ion Ratio Lower Upper

50 100

52 29.4 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

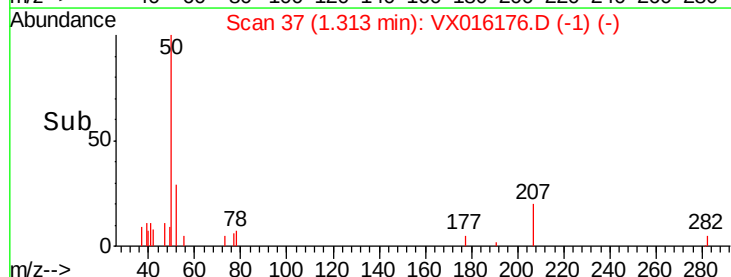
400

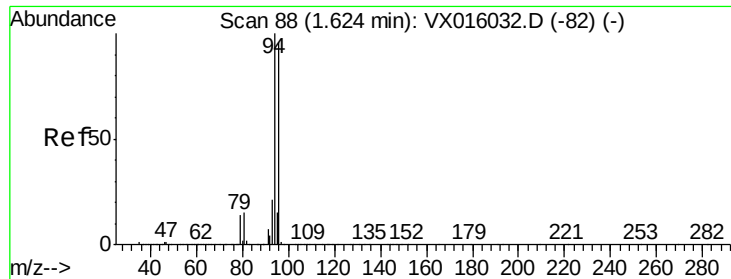
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.237 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

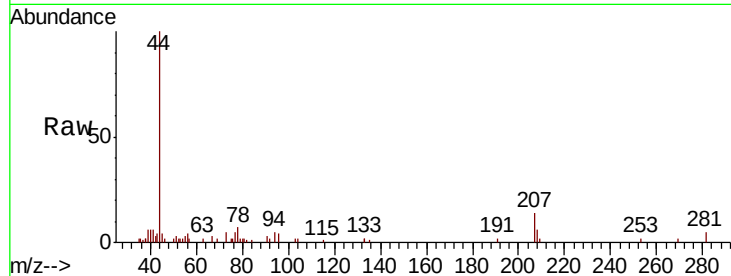
SS052MW710-200511

Tot Ion: 94 Resp: 435

Ion Ratio Lower Upper

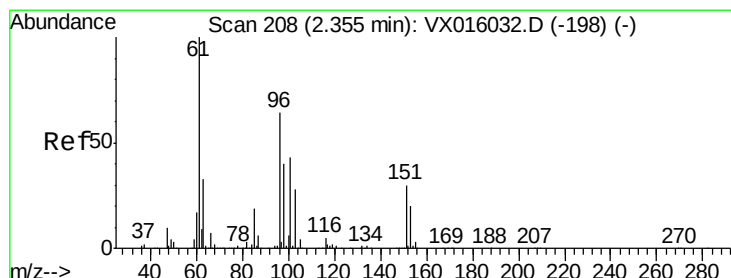
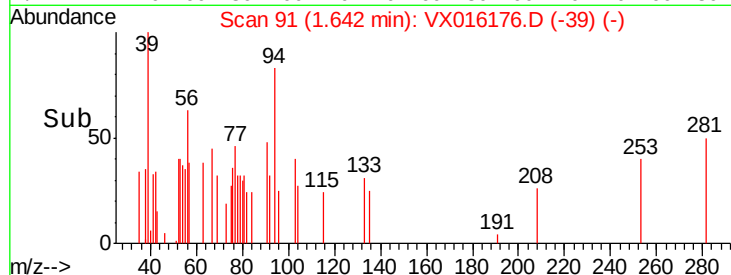
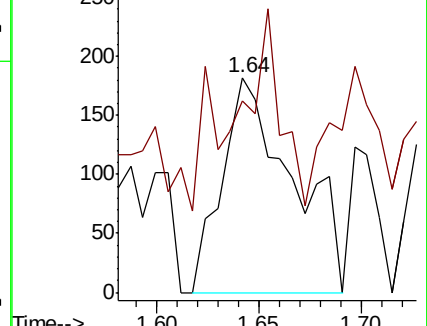
94 100

96 51.1 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#12

1,1-Dichloroethene

Concen: 0.465 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

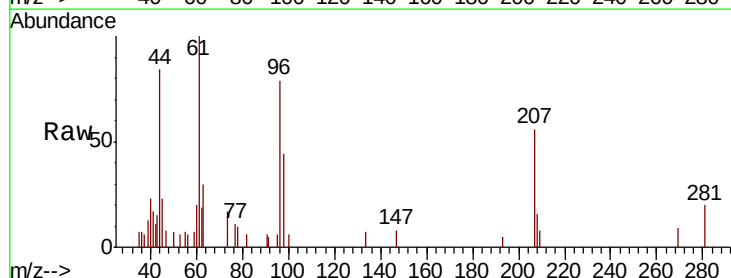
Tgt Ion: 96 Resp: 1344

Ion Ratio Lower Upper

96 100

61 143.6 124.8 187.2

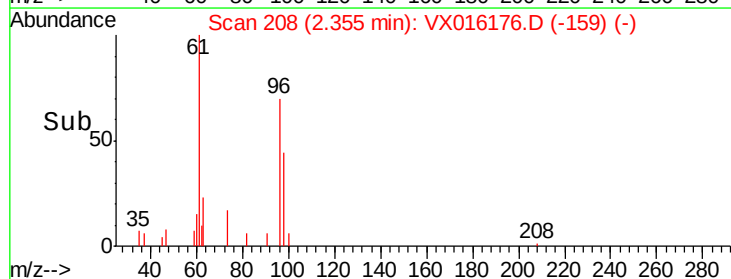
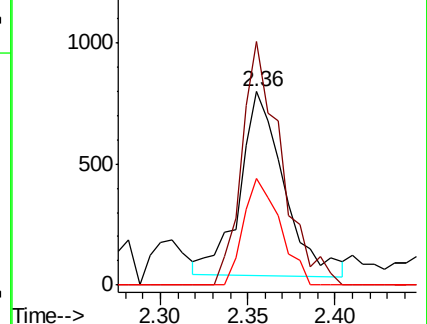
98 63.1 49.7 74.5

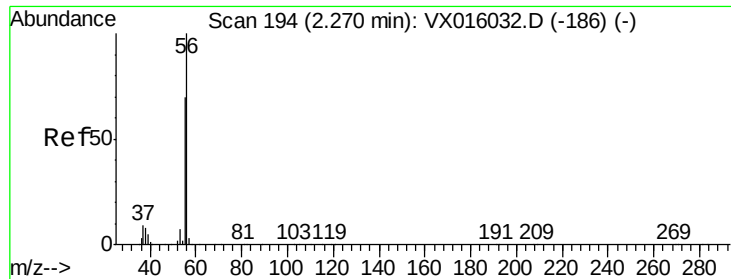


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.600 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

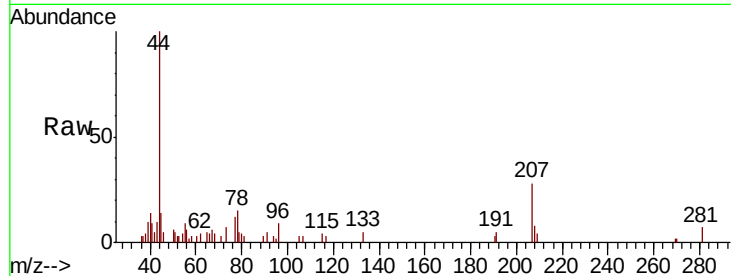
SS052MW710-200511

Tot Ion: 56 Resp: 347

Ion Ratio Lower Upper

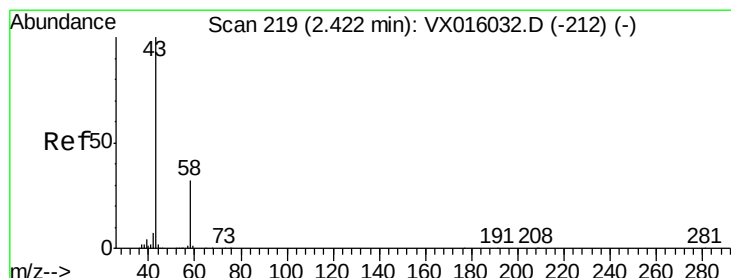
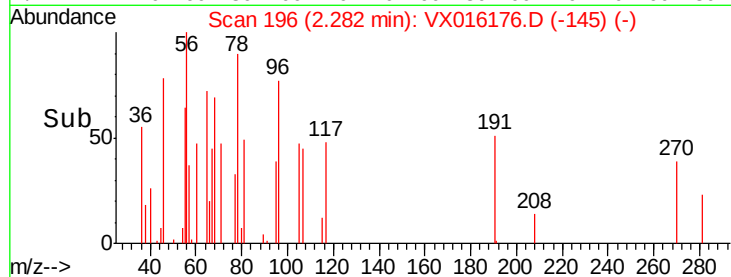
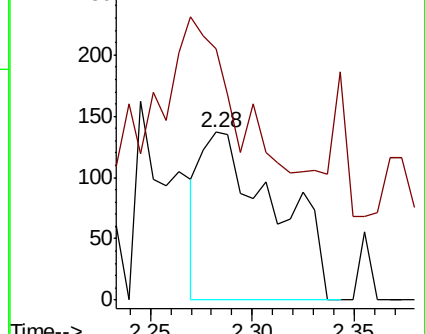
56 100

55 108.1 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.923 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016176.D

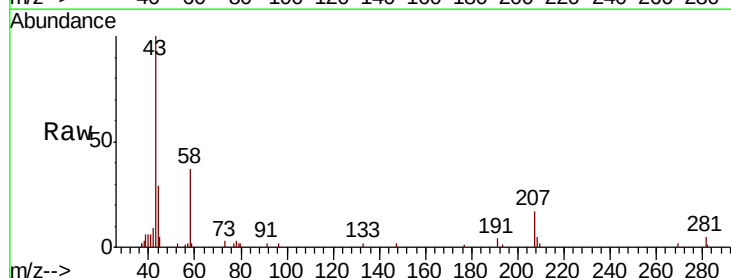
Acq: 13 May 2020 13:58

Tgt Ion: 43 Resp: 6400

Ion Ratio Lower Upper

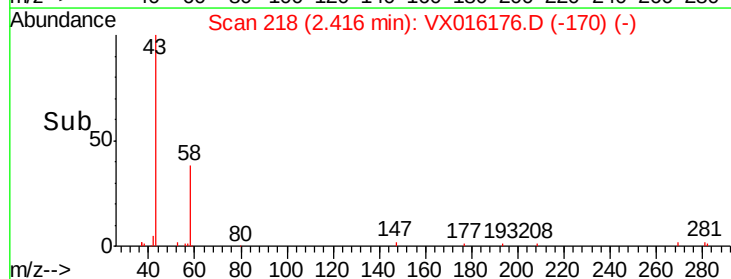
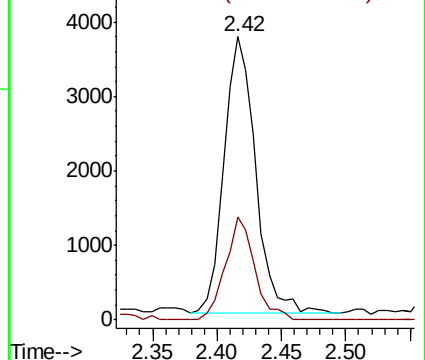
43 100

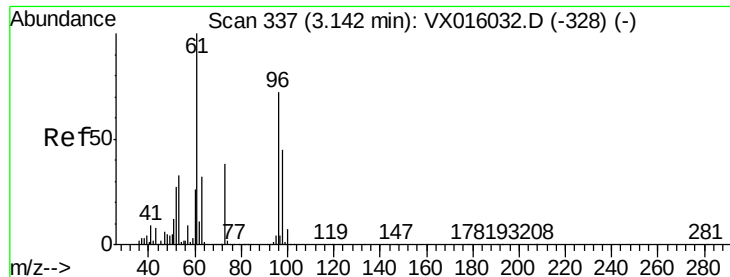
58 37.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.297 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW710-200511

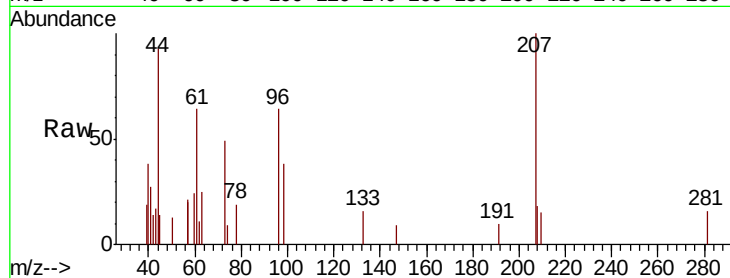
Tot Ion: 96 Resp: 955

Ion Ratio Lower Upper

96 100

61 101.0 111.2 166.8#

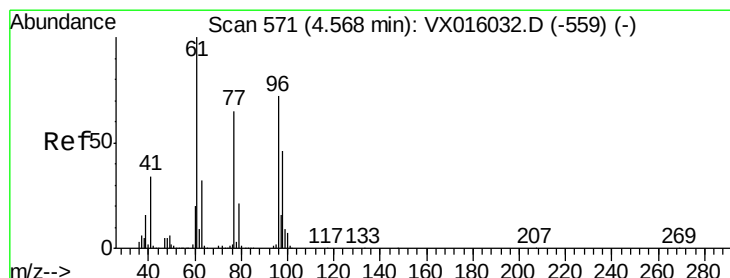
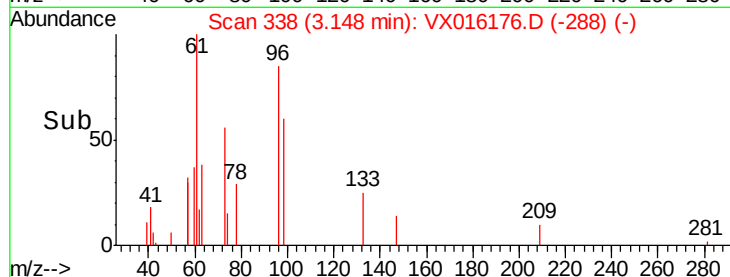
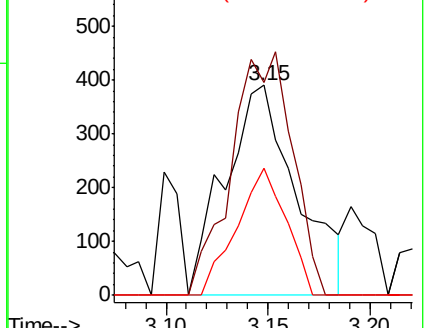
98 60.4 50.2 75.4



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: 6.198 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

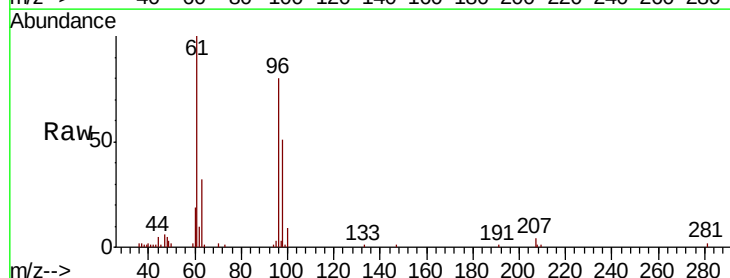
Tgt Ion: 96 Resp: 21810

Ion Ratio Lower Upper

96 100

61 125.4 0.0 296.2

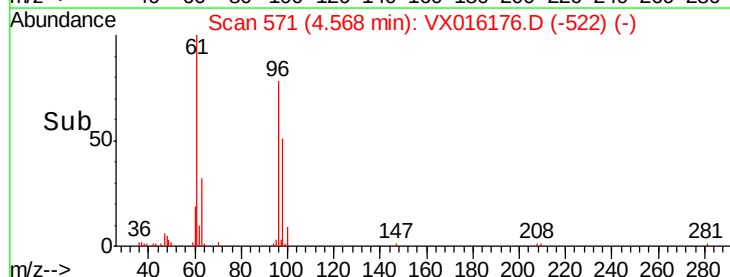
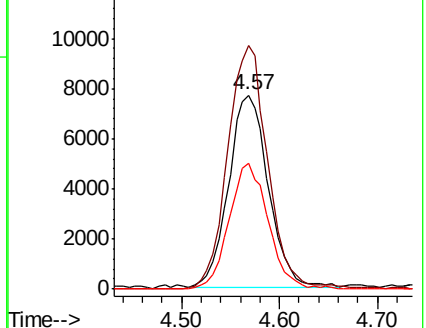
98 63.7 0.0 129.4

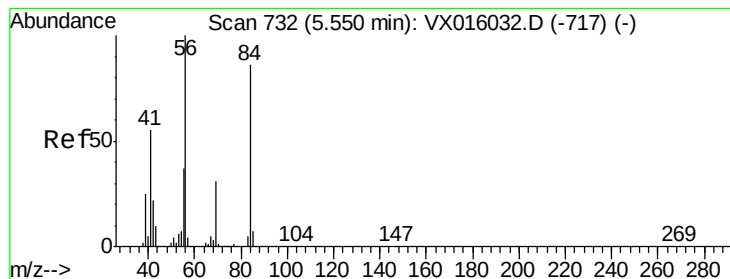


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.050 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

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ClientSampleId :

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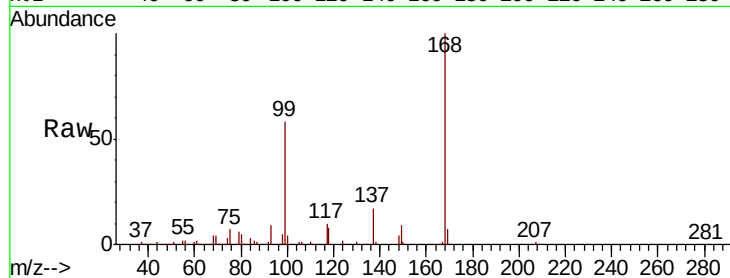
Tot Ion: 56 Resp: 5332

Ion Ratio Lower Upper

56 100

69 192.6 25.0 37.6#

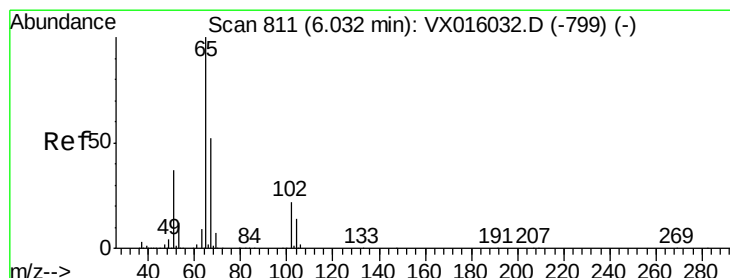
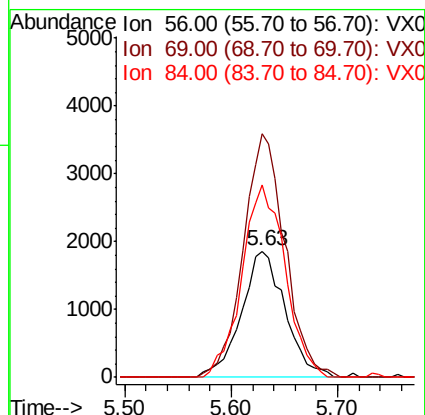
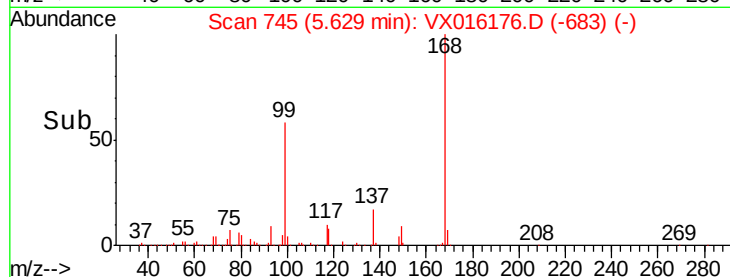
84 152.0 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.922 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016176.D

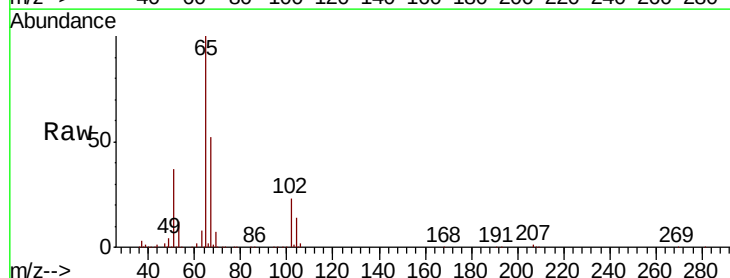
Acq: 13 May 2020 13:58

Tgt Ion: 65 Resp: 171577

Ion Ratio Lower Upper

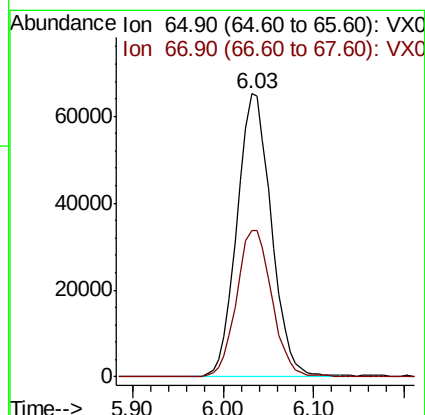
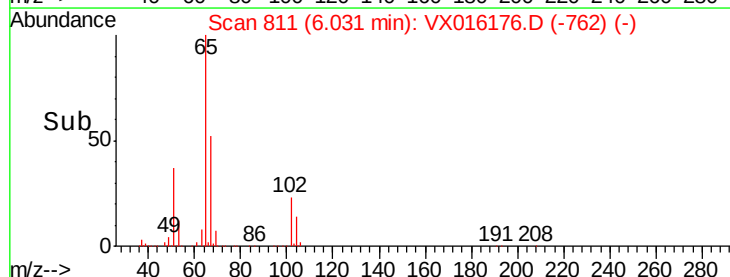
65 100

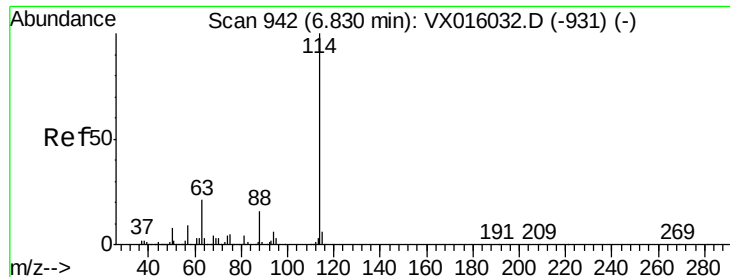
67 53.2 0.0 104.8



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: VX016176.D

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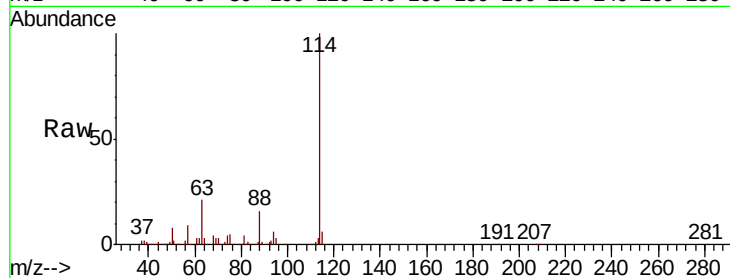
Tot Ion:114 Resp: 465437

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.8

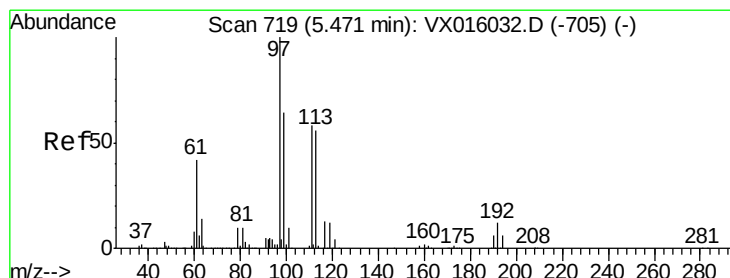
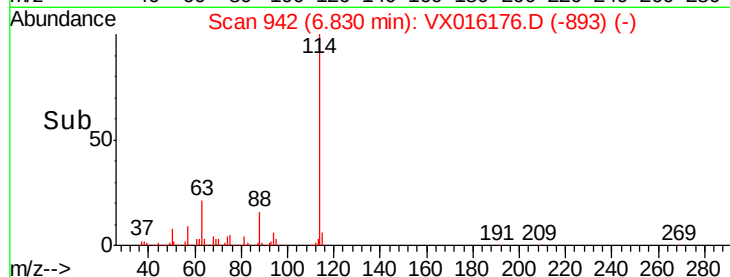
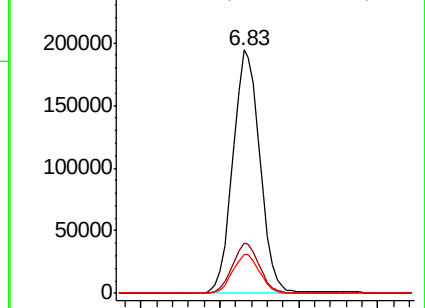
88 15.9 0.0 31.4



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: 45.985 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

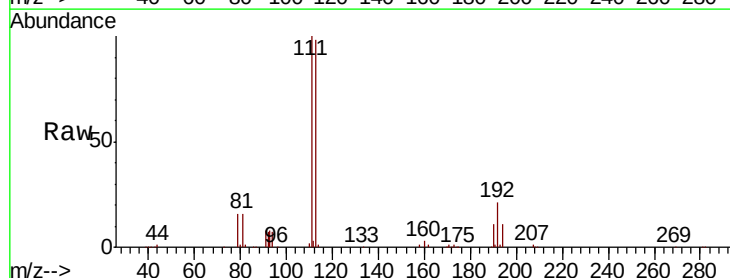
Tgt Ion:113 Resp: 135599

Ion Ratio Lower Upper

113 100

111 102.8 81.6 122.4

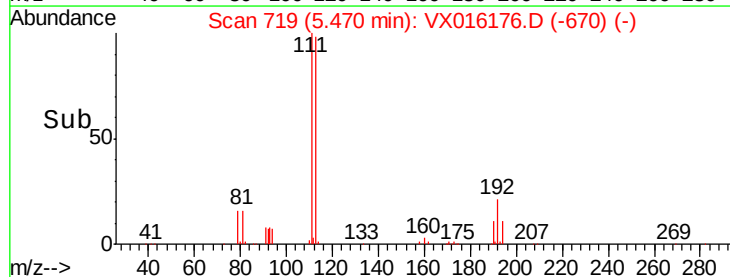
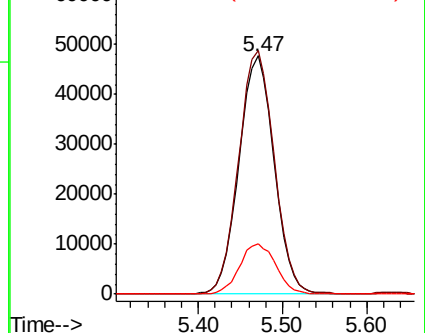
192 21.7 17.0 25.4

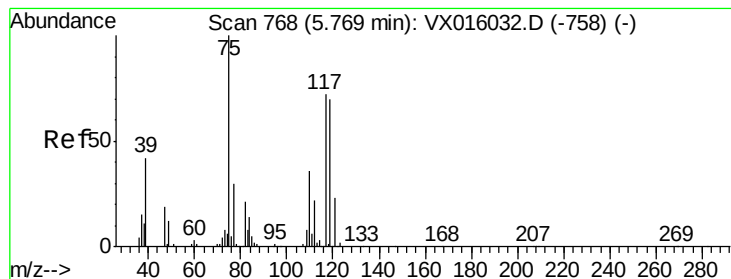


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.518 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

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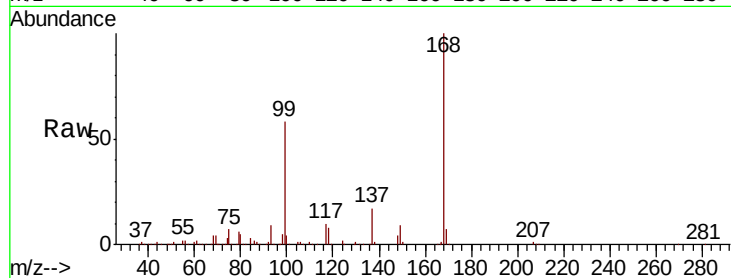
Tot Ion: 75 Resp: 20698

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.1#

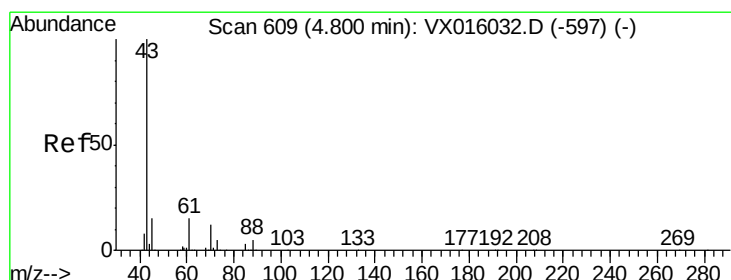
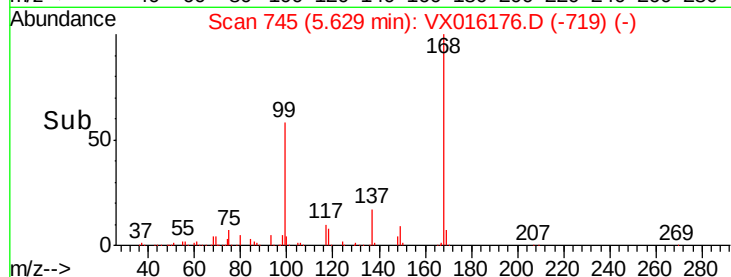
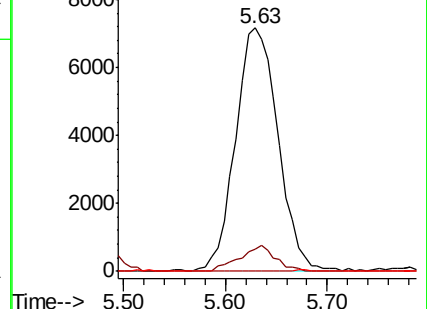
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.272 ug/l

RT: 4.80 min Scan# 609

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

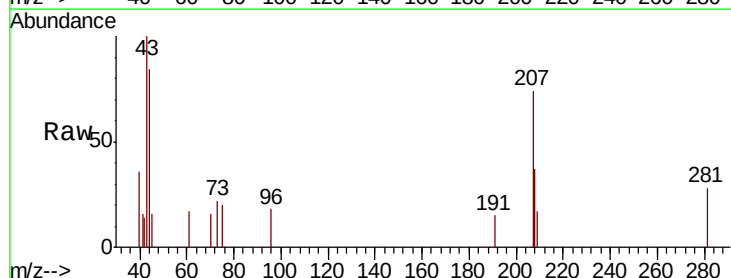
Tgt Ion: 43 Resp: 1446

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

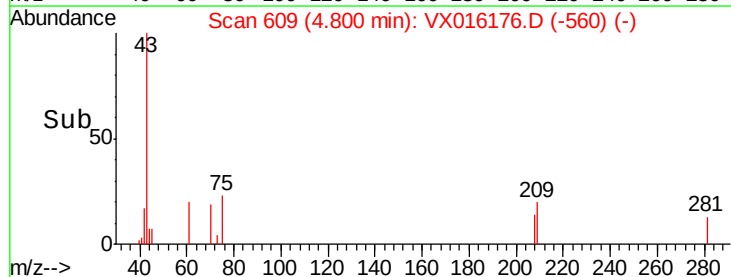
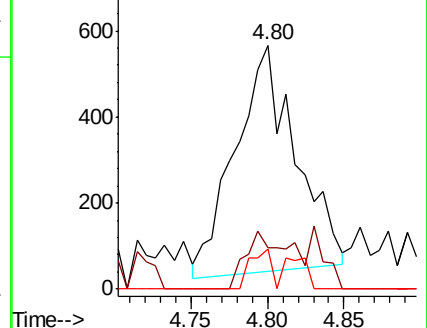
70 6.0 9.3 13.9#

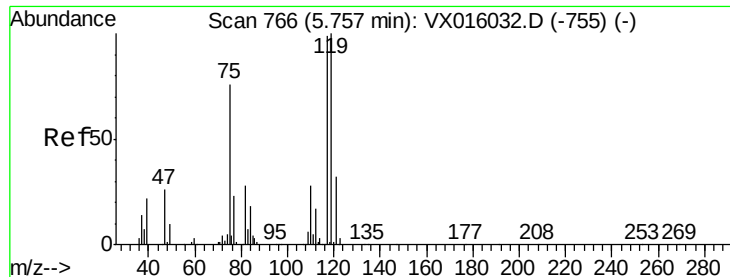


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.748 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW710-200511

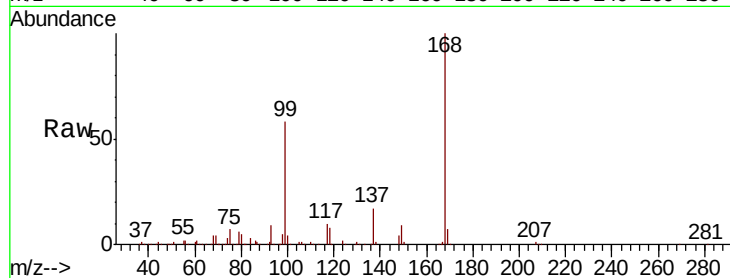
Tot Ion:117 Resp: 26769

Ion Ratio Lower Upper

117 100

119 4.5 80.3 120.5#

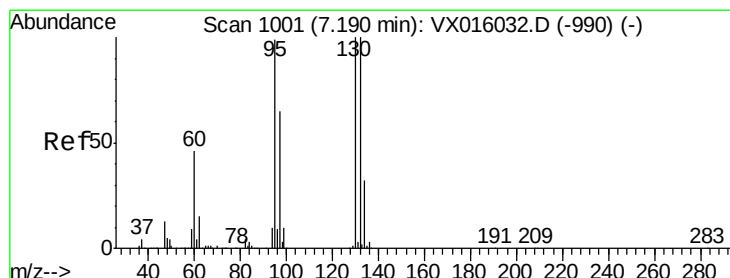
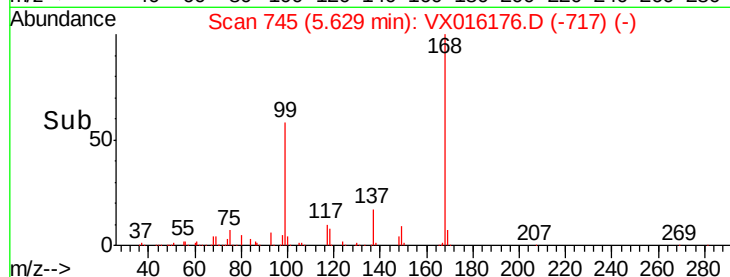
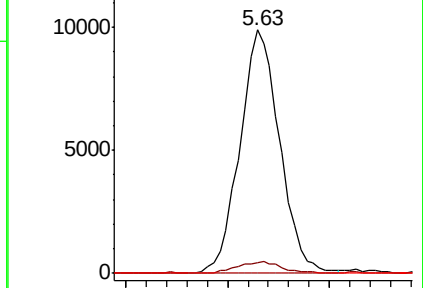
121 0.0 25.7 38.5#



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



#44

Trichloroethene

Concen: 10.561 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016176.D

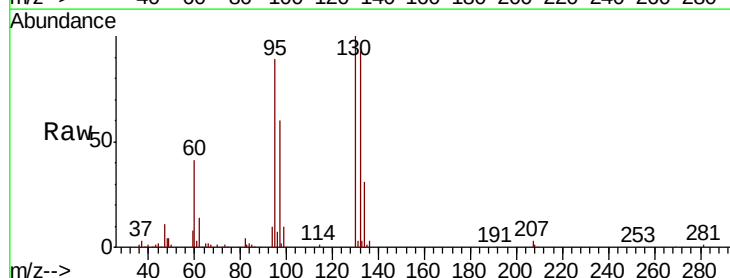
Acq: 13 May 2020 13:58

Tgt Ion:130 Resp: 50298

Ion Ratio Lower Upper

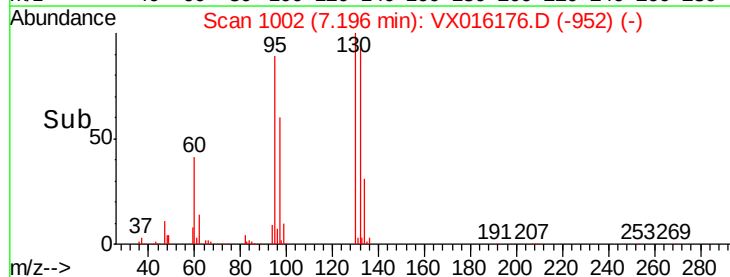
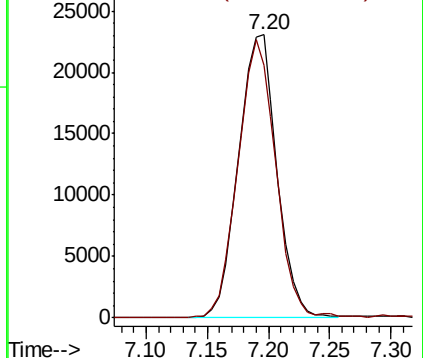
130 100

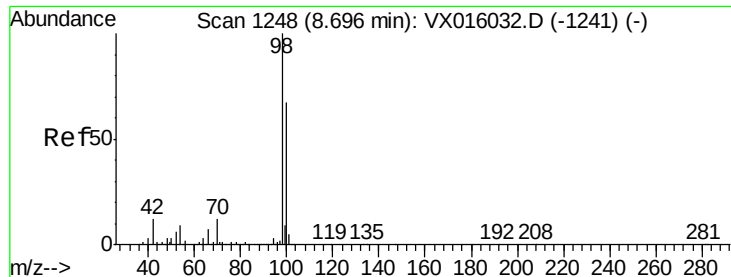
95 89.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.473 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

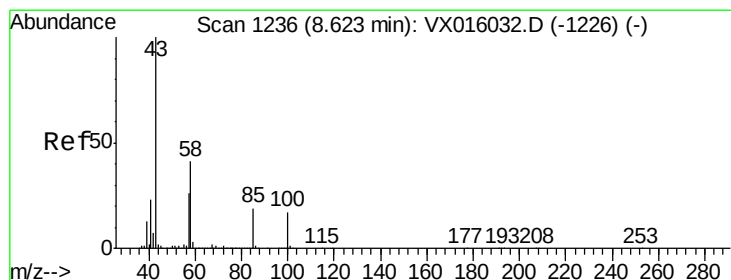
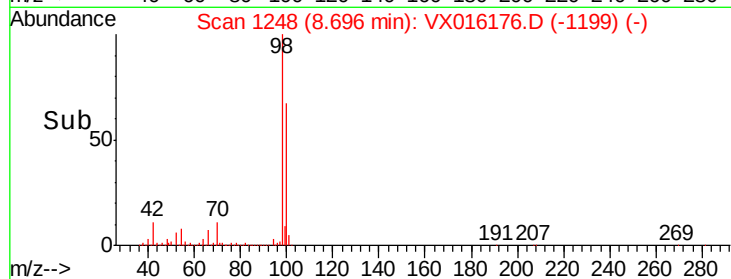
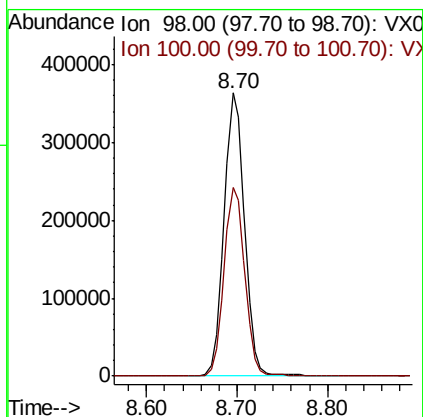
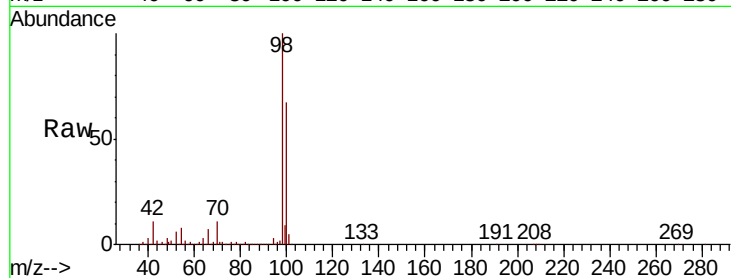
SS052MW710-200511

Tot Ion: 98 Resp: 573463

Ion Ratio Lower Upper

98 100

100 67.7 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 0.447 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX016176.D

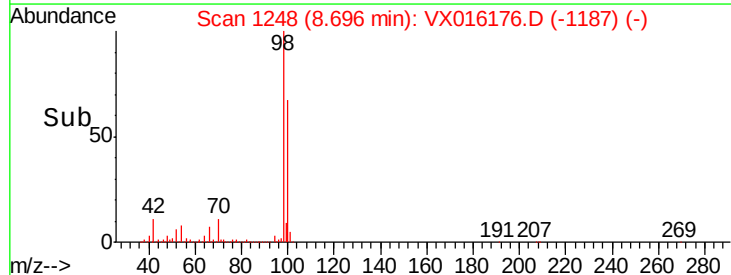
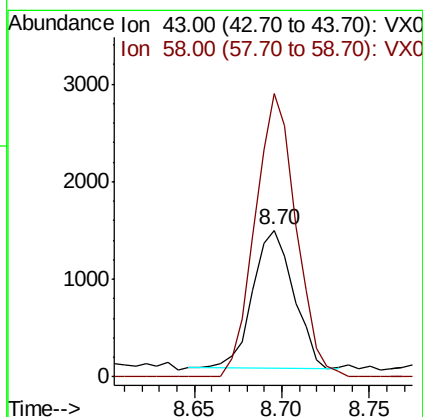
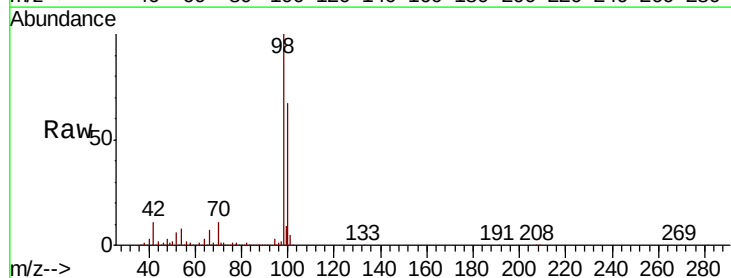
Acq: 13 May 2020 13:58

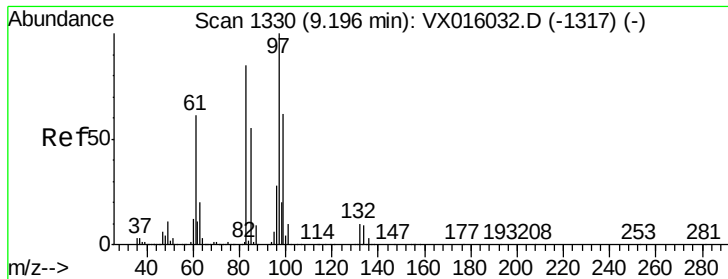
Tgt Ion: 43 Resp: 2318

Ion Ratio Lower Upper

43 100

58 203.5 33.0 49.4#

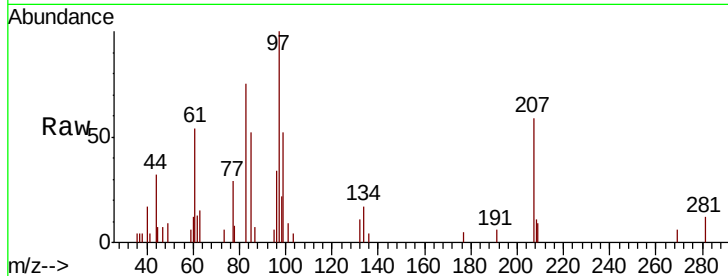




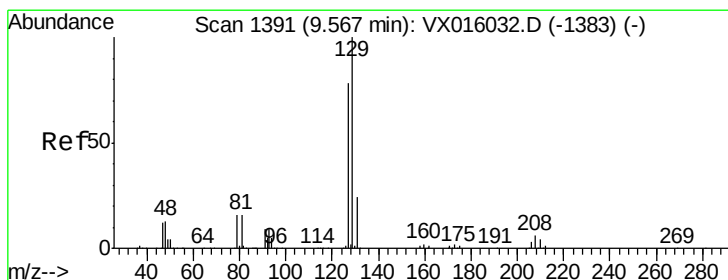
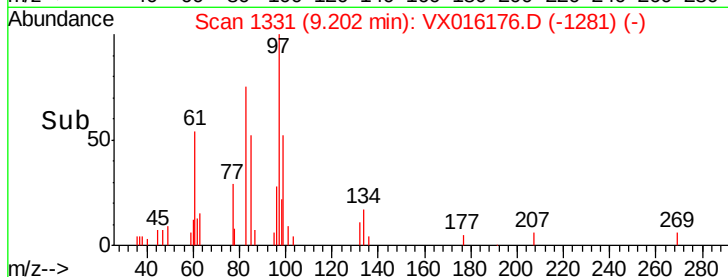
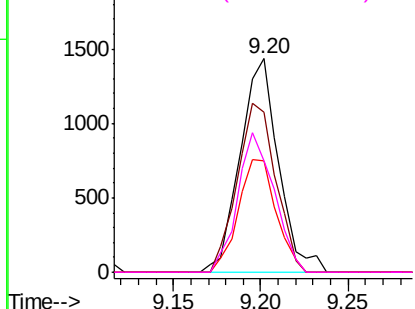
#55
 1,1,2-Trichloroethane
 Concen: 0.667 ug/l
 RT: 9.20 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VX016176.D
 Acq: 13 May 2020 13:58

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW710-200511

Tot Ion:	97	Resp:	2193
Ion	Ratio	Lower	Upper
97	100		
83	75.1	67.8	101.8
85	52.4	43.8	65.8
99	52.4	49.4	74.0

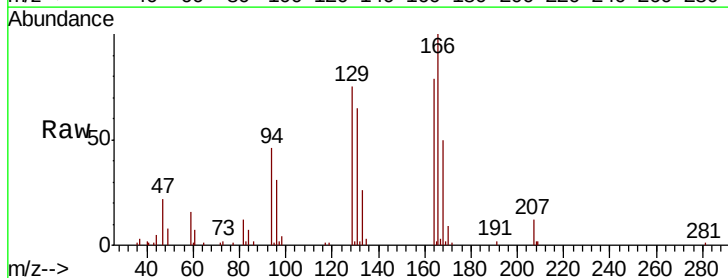


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

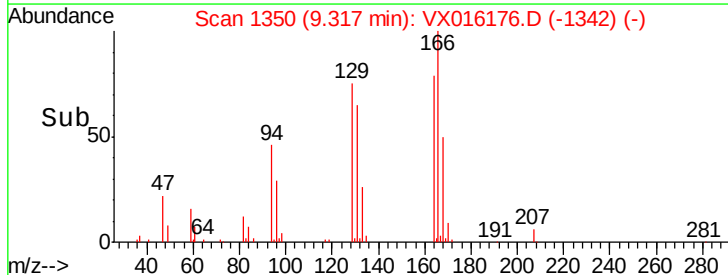
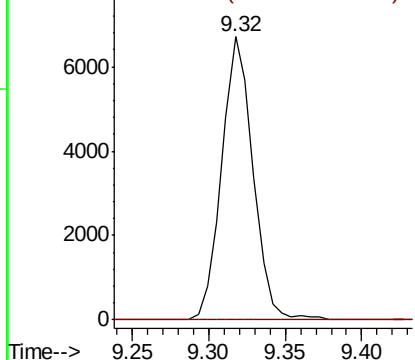


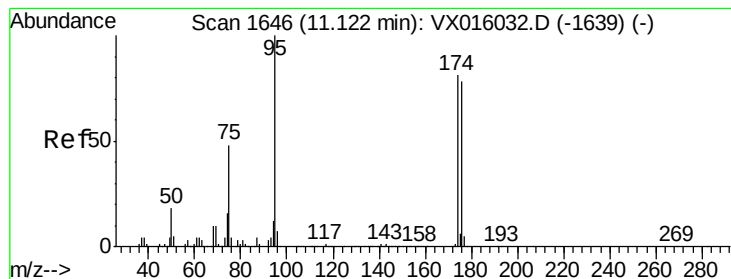
#60
 Dibromochloromethane
 Concen: 2.630 ug/l
 RT: 9.32 min Scan# 1350
 Delta R.T. -0.25 min
 Lab File: VX016176.D
 Acq: 13 May 2020 13:58

Tgt Ion:	129	Resp:	9524
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.4	115.2#



Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 53.227 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW710-200511

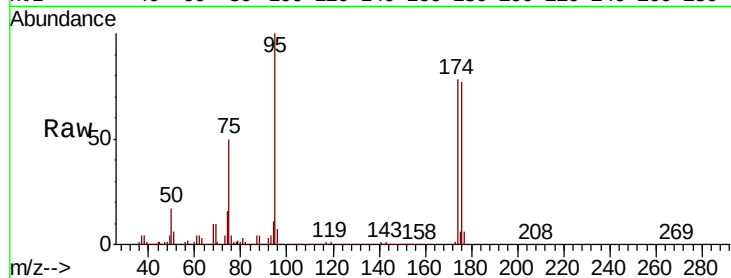
Tot Ion: 95 Resp: 230016

Ion Ratio Lower Upper

95 100

174 82.0 0.0 159.4

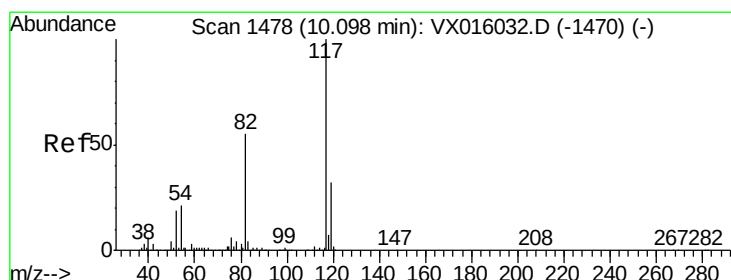
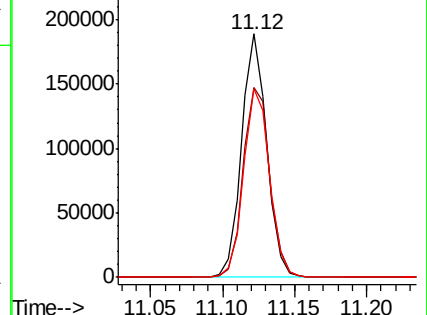
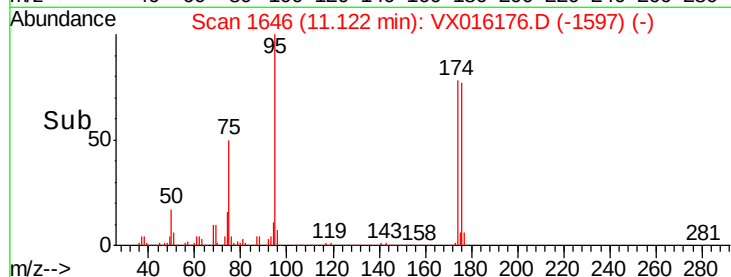
176 79.8 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016176.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016176.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016176.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

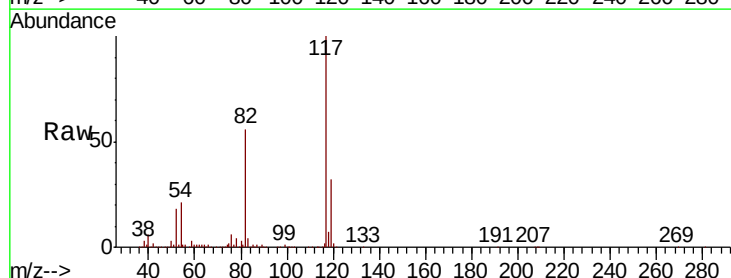
Tgt Ion: 117 Resp: 461349

Ion Ratio Lower Upper

117 100

82 55.9 44.4 66.6

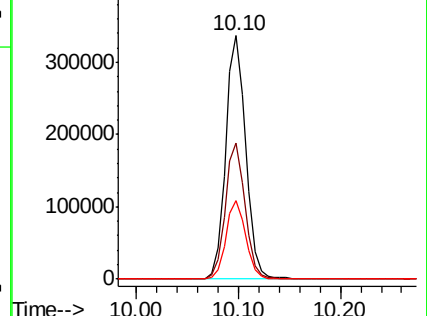
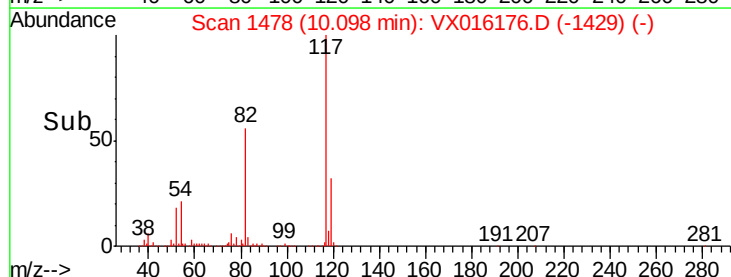
119 32.3 25.5 38.3

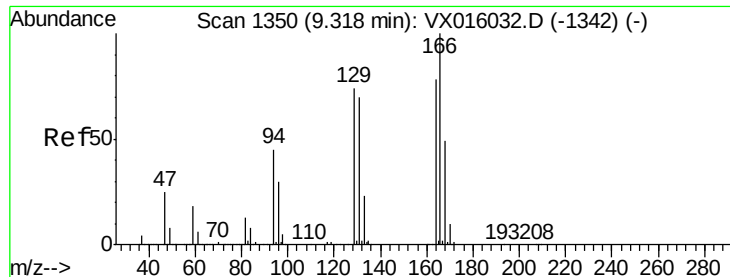


Abundance Ion 116.90 (116.60 to 117.60): VX016176.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016176.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016176.D (-1429) (-)





#64

Tetrachloroethene

Concen: 1.814 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW710-200511

Tot Ion:164 Resp: 10275

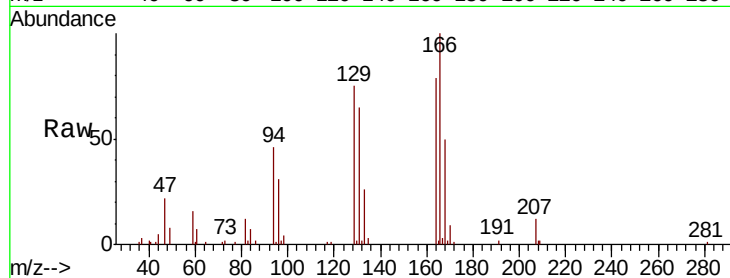
Ion Ratio Lower Upper

164 100

166 125.9 102.9 154.3

129 94.3 76.1 114.1

131 81.8 71.9 107.9



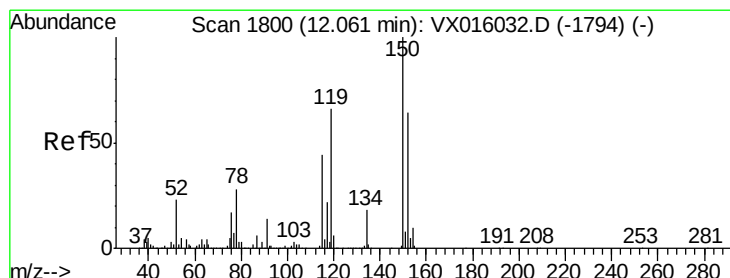
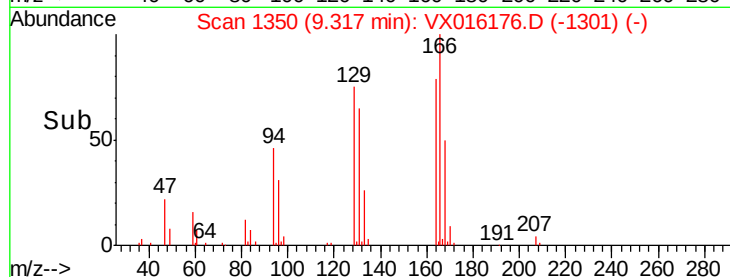
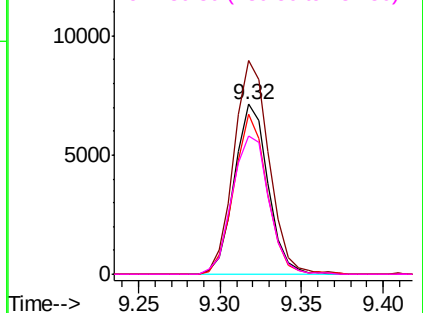
Abundance

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

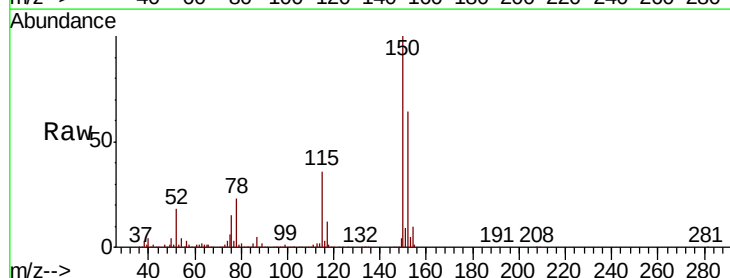
Tgt Ion:152 Resp: 231970

Ion Ratio Lower Upper

152 100

115 59.7 41.3 124.1

150 160.7 0.0 352.2

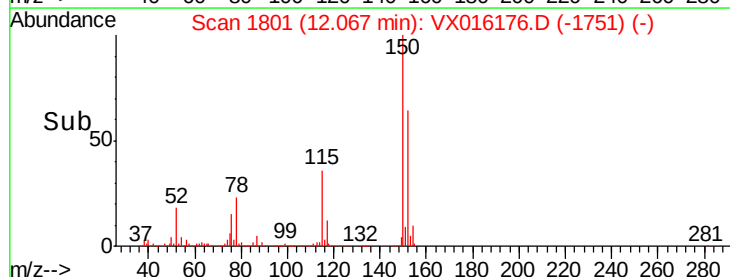
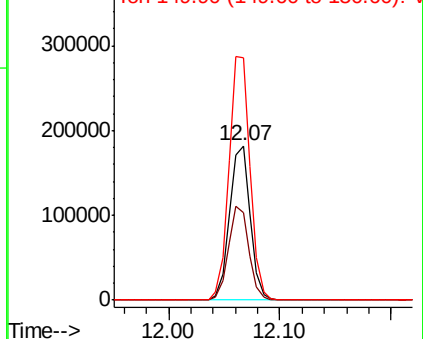


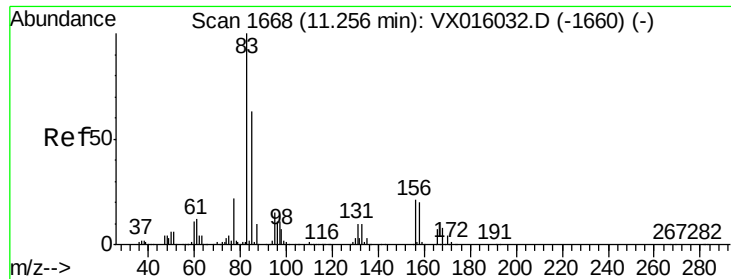
Abundance

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: 2.106 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016176.D

Acq: 13 May 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

SS052MW710-200511

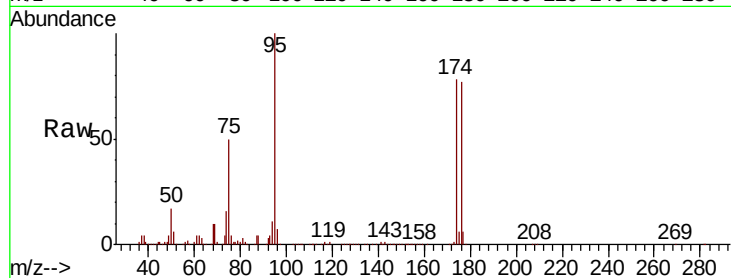
Tot Ion: 83 Resp: 181

Ion Ratio Lower Upper

83 100

131 208.8 5.1 15.4#

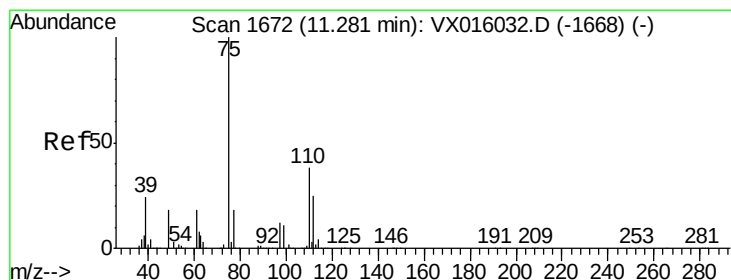
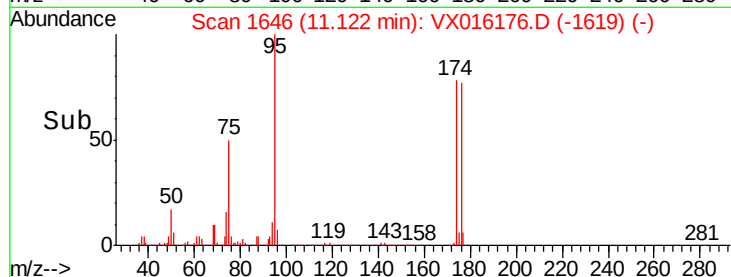
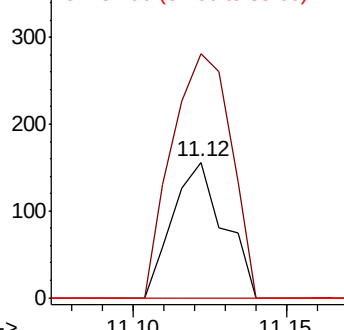
85 0.0 32.0 96.0#



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: 21.712 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016176.D

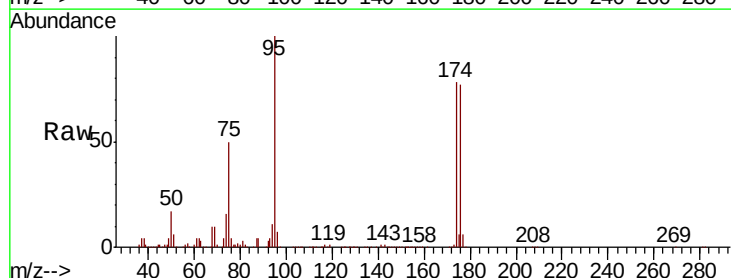
Acq: 13 May 2020 13:58

Tgt Ion: 75 Resp: 114293

Ion Ratio Lower Upper

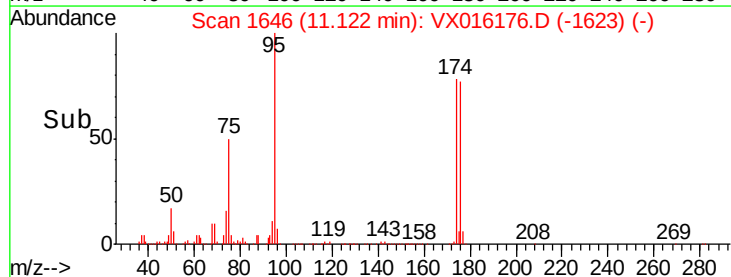
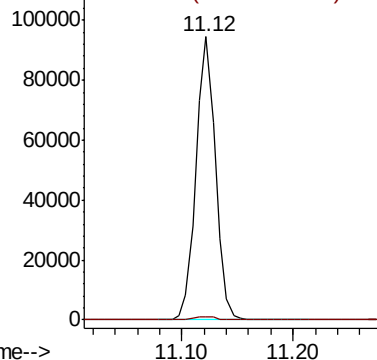
75 100

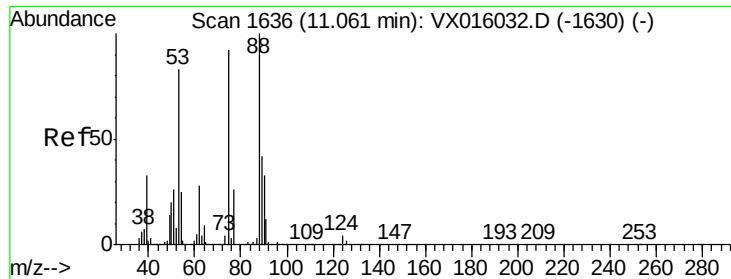
77 1.3 21.2 63.6#



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: 51.742 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016176.D
 Acq: 13 May 2020 13:58

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW710-200511

Tot Ion: 75 Resp: 114293
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#

