

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016022.D
 Acq On : 01 May 2020 19:18
 Operator : JC/SP
 Sample : L2469-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ192I-20200430

Quant Time: May 02 07:02:42 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	272869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	445913	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	436224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	226877	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	176941	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	5.47	113	134119	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	8.70	98	546342	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
62) 4-Bromofluorobenzene	11.12	95	221066	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	

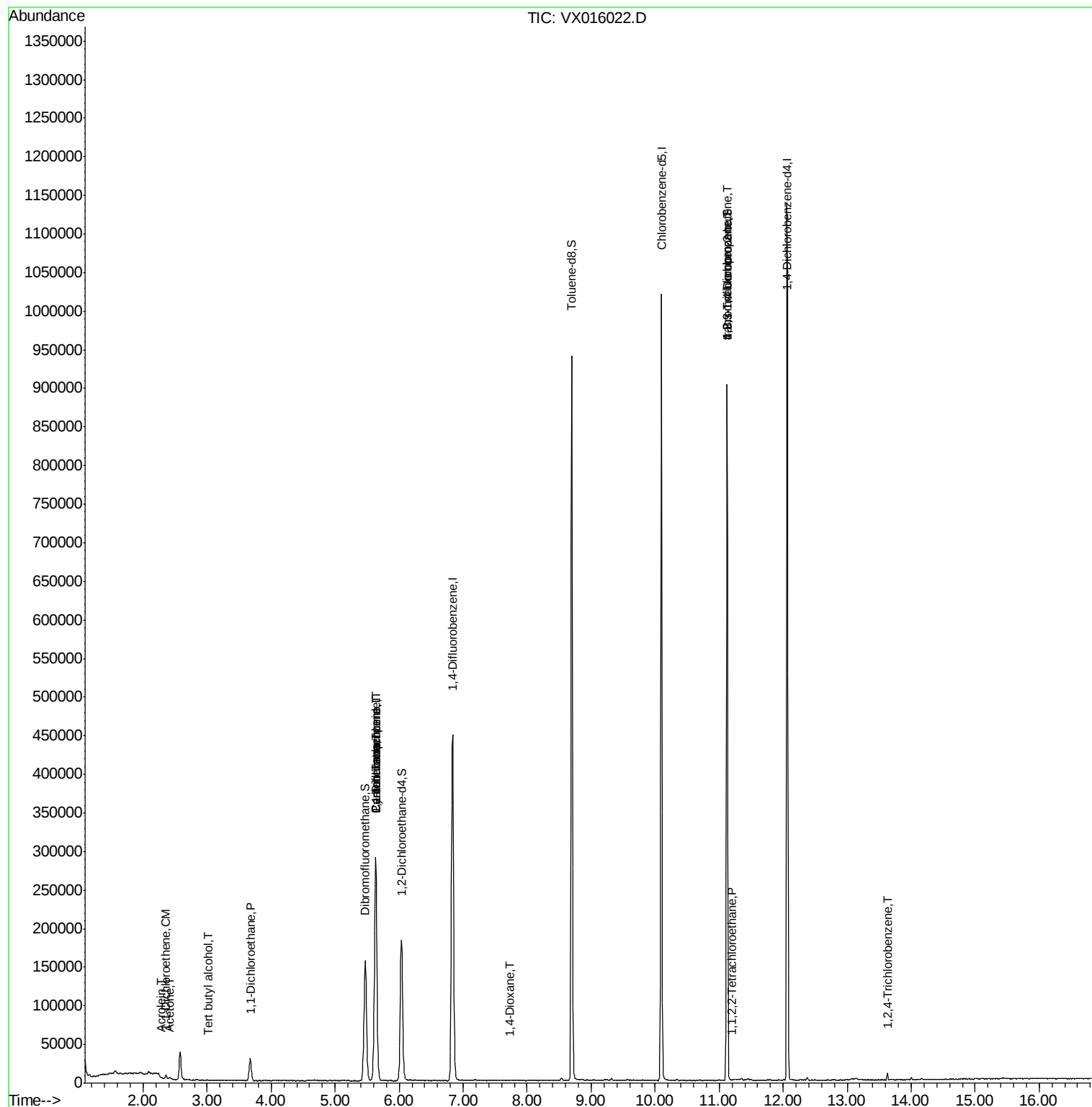
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	526	0.607	ug/l #	83
12) 1,1-Dichloroethene	2.36	96	1454	0.557	ug/l	95
13) Acrolein	2.28	56	262	1.204	ug/l #	63
16) Acetone	2.42	43	2196	1.439	ug/l #	86
24) 1,1-Dichloroethane	3.67	63	31339	6.078	ug/l	100
31) Cyclohexane	5.64	56	5991	1.305	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	21496	5.061	ug/l #	49
38) Carbon Tetrachloride	5.63	117	27162	6.055	ug/l #	16
49) 1,4-Dioxane	7.73	88	20	0.228	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.20	83	23	3.707	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	114881	24.131	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	114881	57.026	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	1819	0.350	ug/l #	88

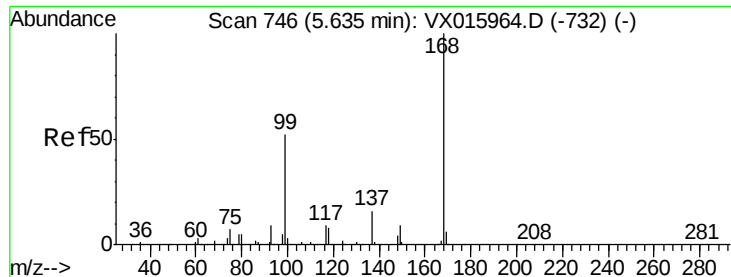
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

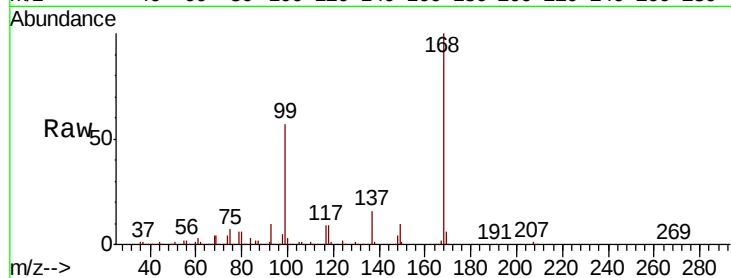
SA-PZ192I-20200430

Tot Ion:168 Resp: 272869

Ion Ratio Lower Upper

168 100

99 57.3 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

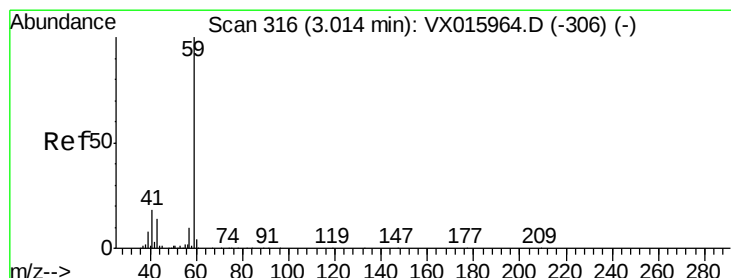
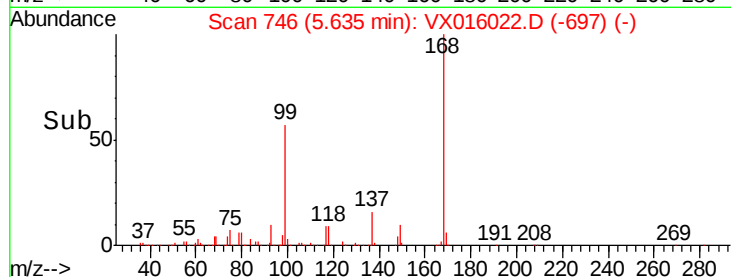
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.607 ug/l

RT: 3.01 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX016022.D

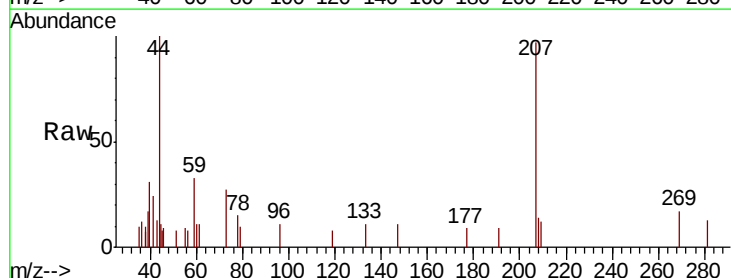
Acq: 01 May 2020 19:18

Tgt Ion: 59 Resp: 526

Ion Ratio Lower Upper

59 100

57 4.2 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

250

200

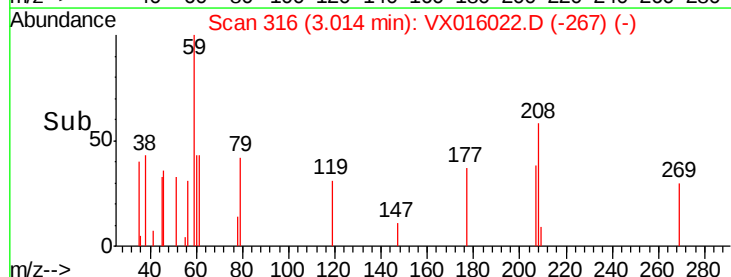
150

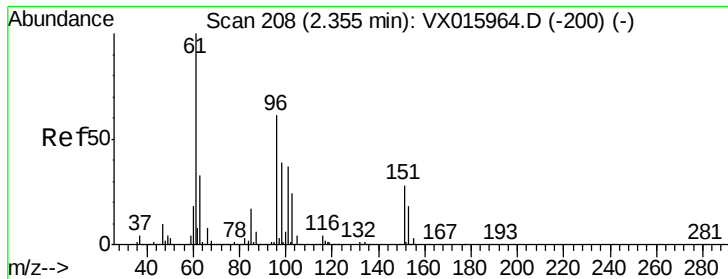
100

50

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.557 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ192I-20200430

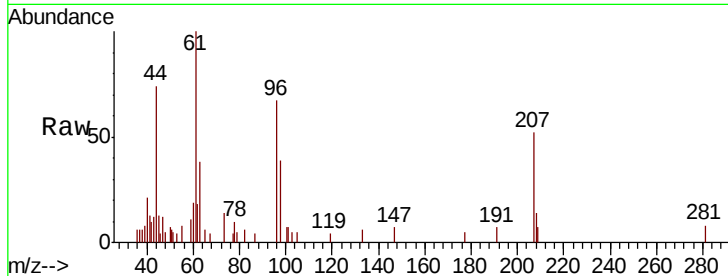
Tot Ion: 96 Resp: 1454

Ion Ratio Lower Upper

96 100

61 154.6 131.0 196.4

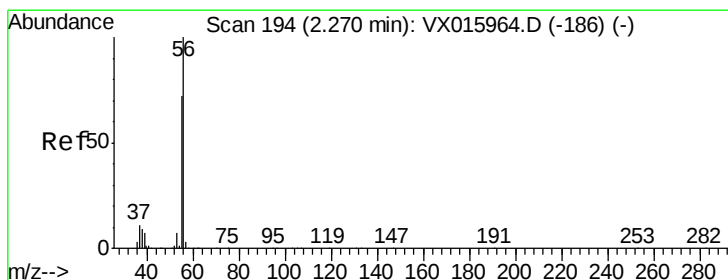
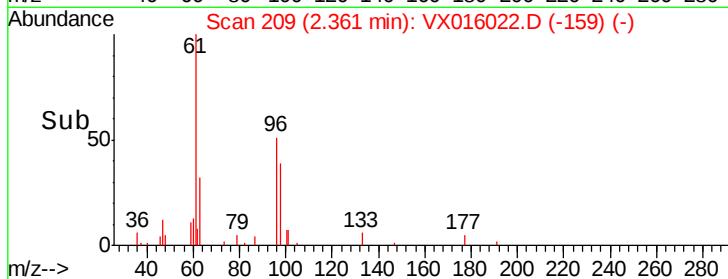
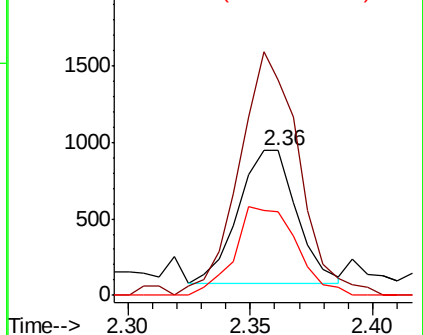
98 62.6 50.7 76.1



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: 1.204 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016022.D

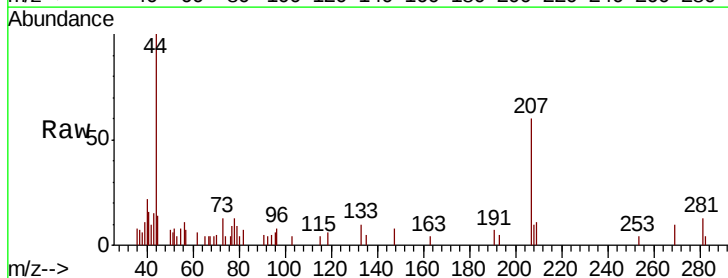
Acq: 01 May 2020 19:18

Tgt Ion: 56 Resp: 262

Ion Ratio Lower Upper

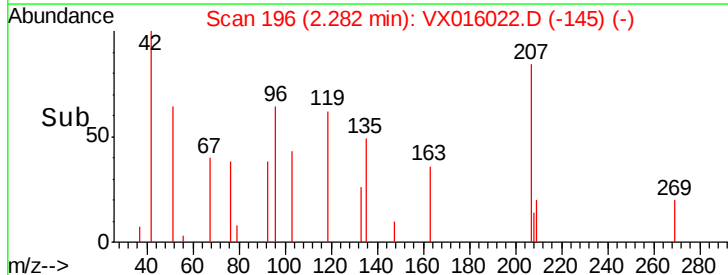
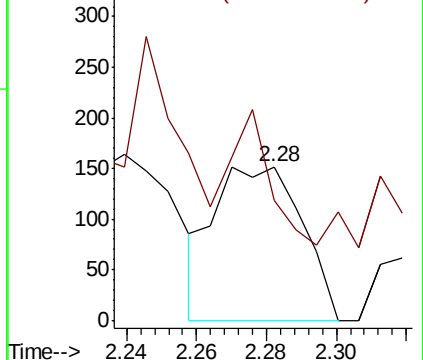
56 100

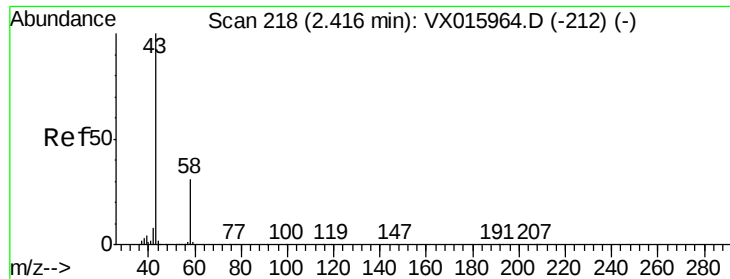
55 40.1 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.439 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

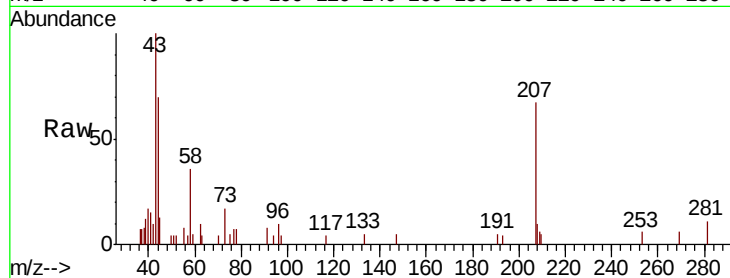
SA-PZ192I-20200430

Tot Ion: 43 Resp: 2196

Ion Ratio Lower Upper

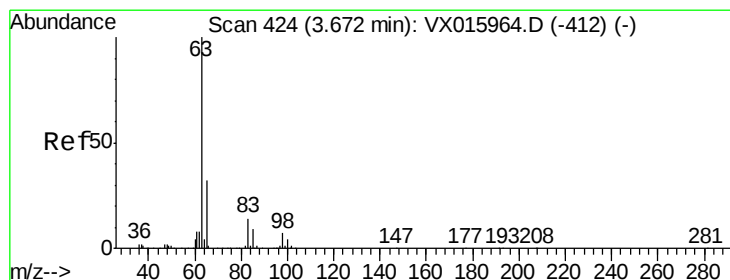
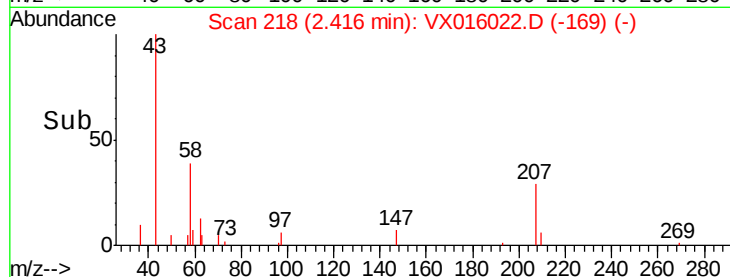
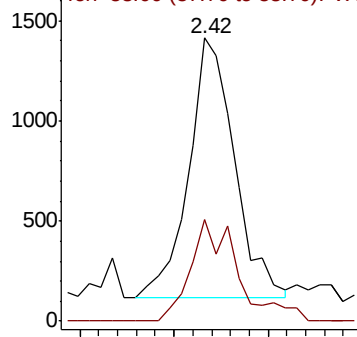
43 100

58 39.1 25.1 37.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#24

1,1-Dichloroethane

Concen: 6.078 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

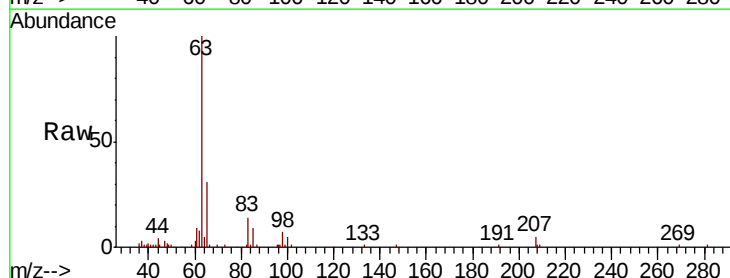
Tgt Ion: 63 Resp: 31339

Ion Ratio Lower Upper

63 100

98 7.1 3.6 10.8

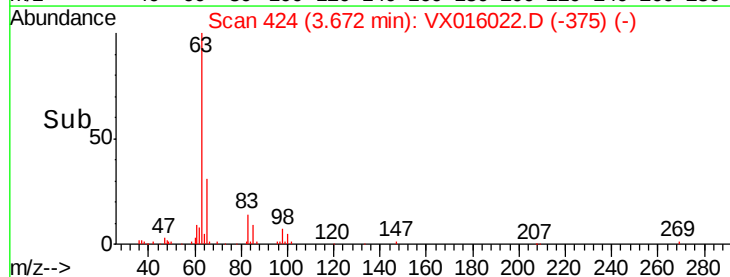
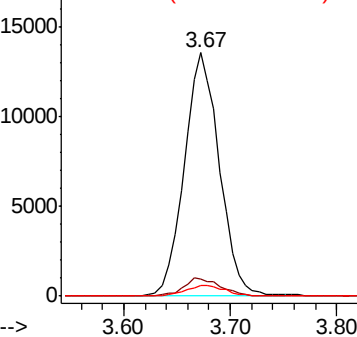
100 4.6 2.2 6.6

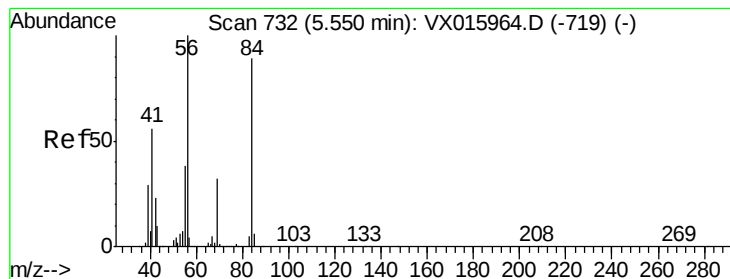


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#31

Cyclohexane

Concen: 1.305 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ192I-20200430

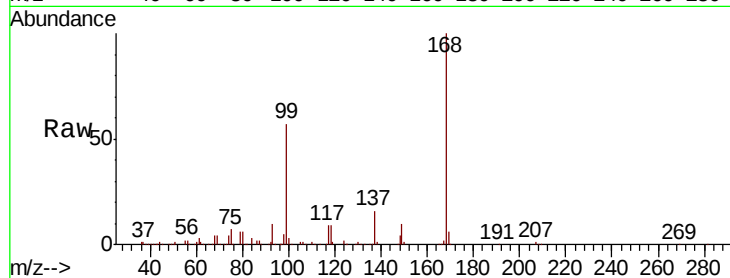
Tot Ion: 56 Resp: 5991

Ion Ratio Lower Upper

56 100

69 184.7 25.4 38.2#

84 142.9 71.0 106.6#

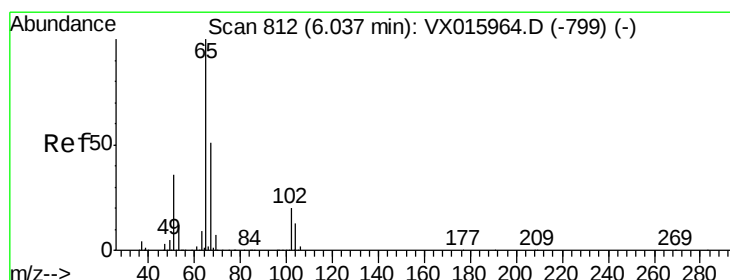
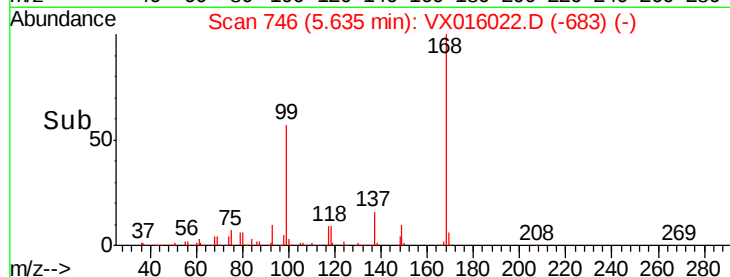
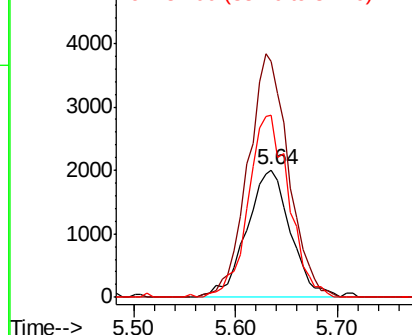


Abundance

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: 49.596 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX016022.D

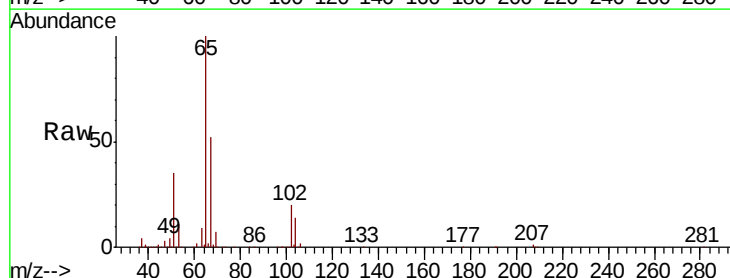
Acq: 01 May 2020 19:18

Tgt Ion: 65 Resp: 176941

Ion Ratio Lower Upper

65 100

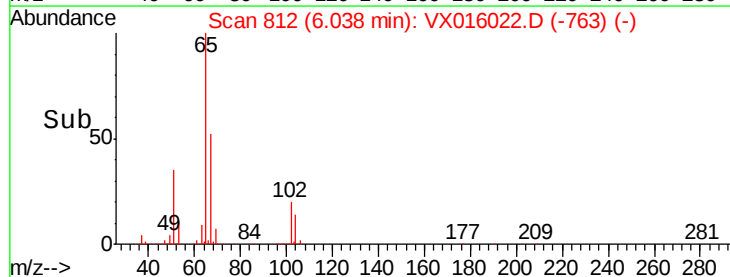
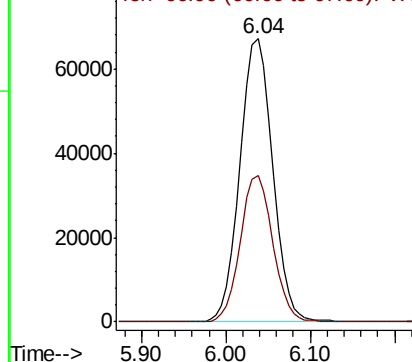
67 51.3 0.0 102.4

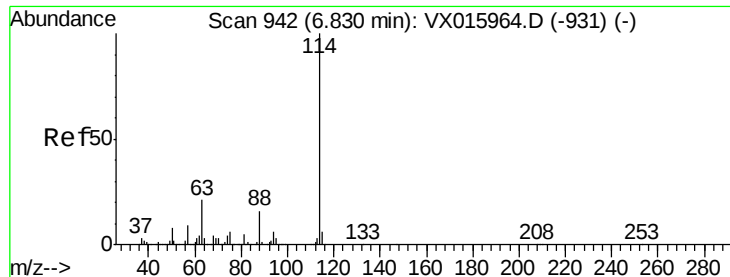


Abundance

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: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ192I-20200430

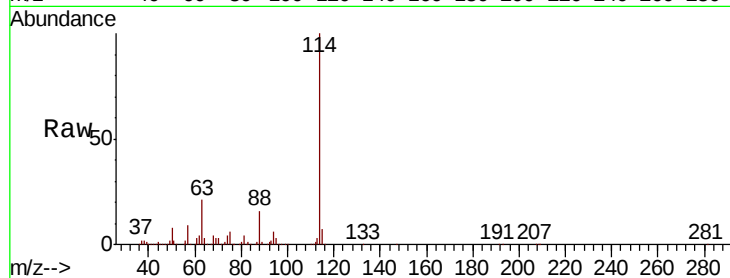
Tot Ion:114 Resp: 445913

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.2

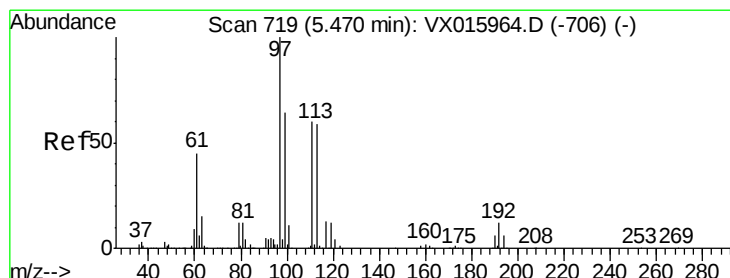
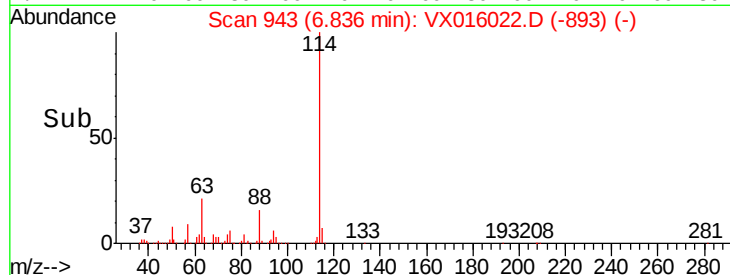
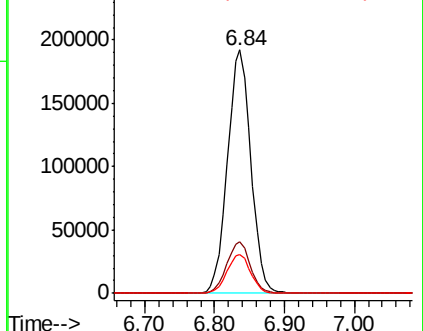
88 16.1 0.0 31.8



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: 48.216 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

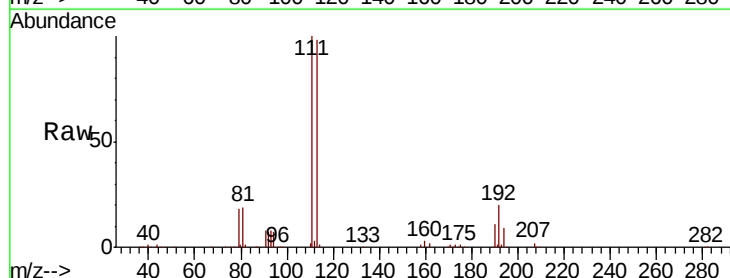
Tgt Ion:113 Resp: 134119

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

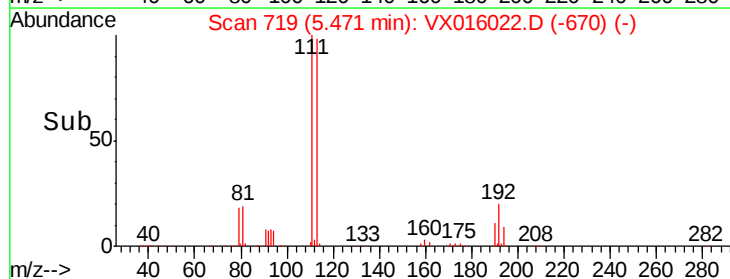
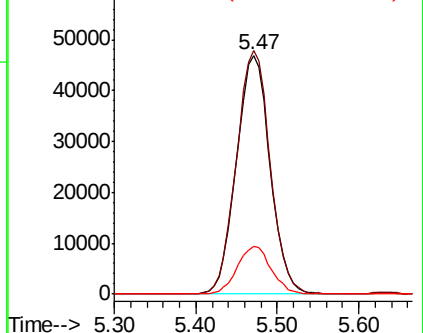
192 20.2 16.8 25.2

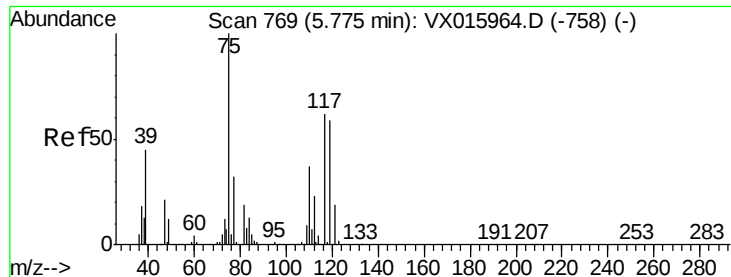


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.061 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.15 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

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ClientSampleId :

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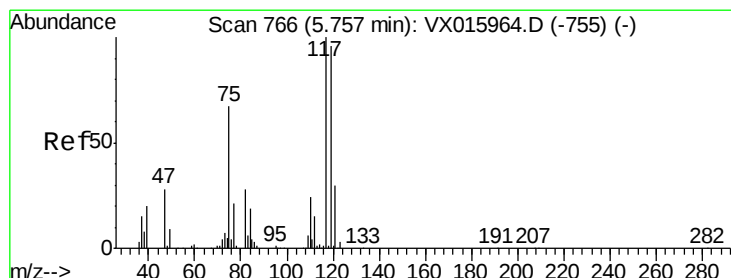
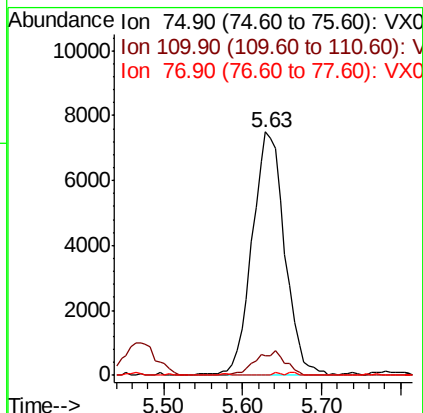
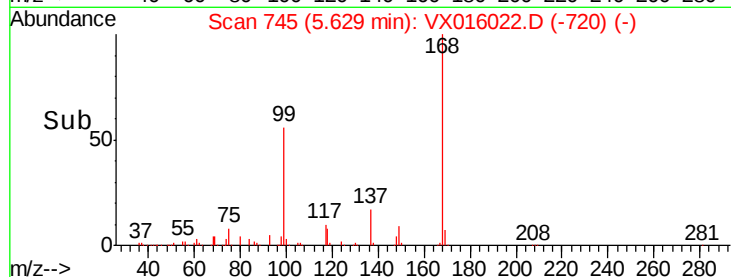
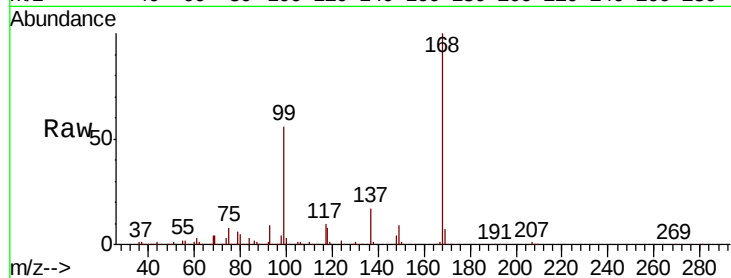
Tot Ion: 75 Resp: 21496

Ion Ratio Lower Upper

75 100

110 9.2 17.9 53.7#

77 0.2 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 6.055 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

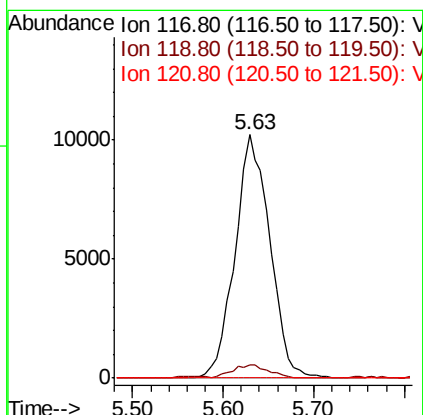
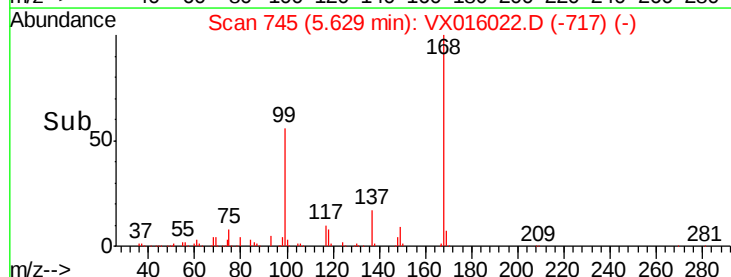
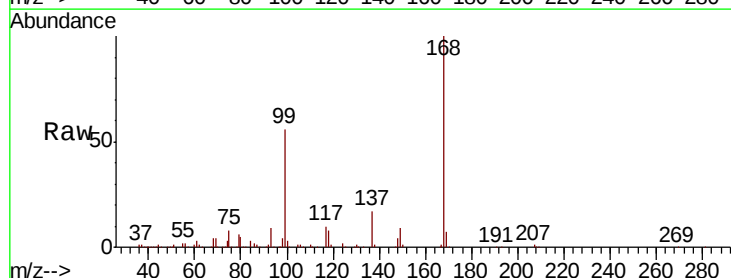
Tgt Ion: 117 Resp: 27162

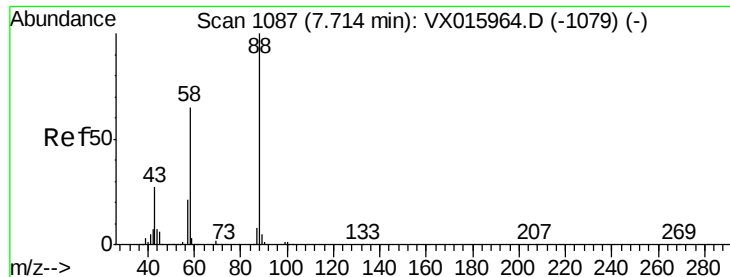
Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.4#

121 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 0.228 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

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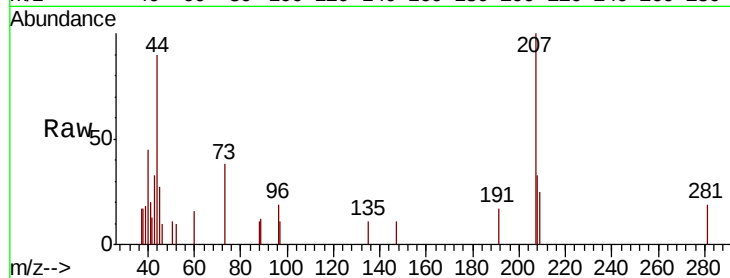
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 435.0 26.6 39.8#

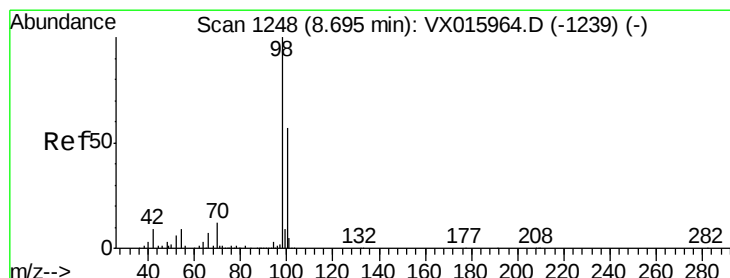
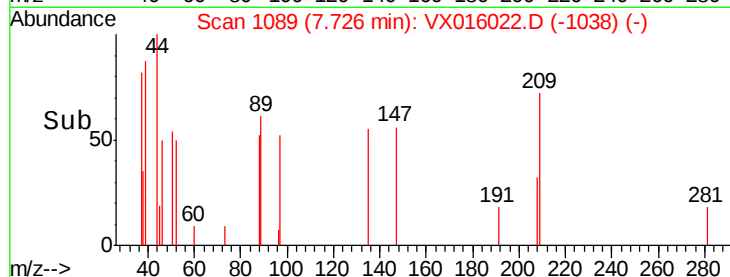
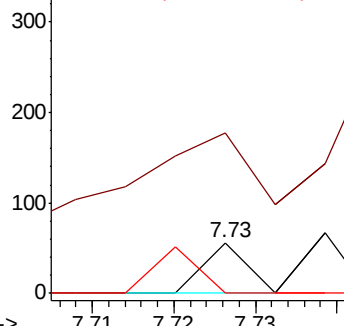
58 95.0 54.8 82.2#



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: 52.532 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016022.D

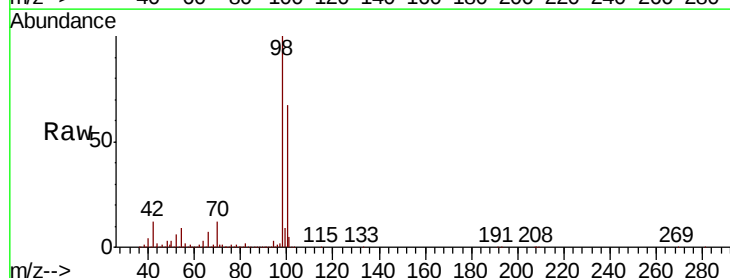
Acq: 01 May 2020 19:18

Tgt Ion: 98 Resp: 546342

Ion Ratio Lower Upper

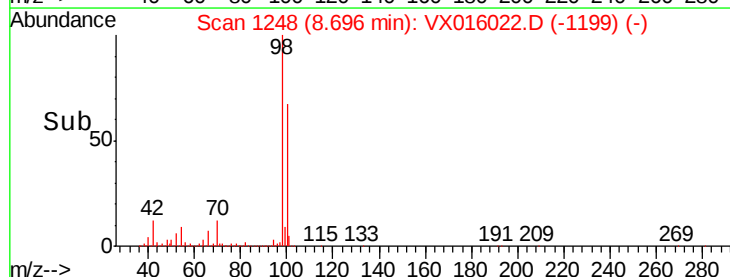
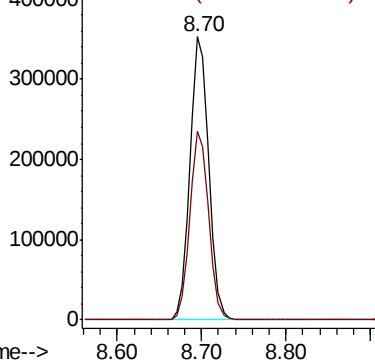
98 100

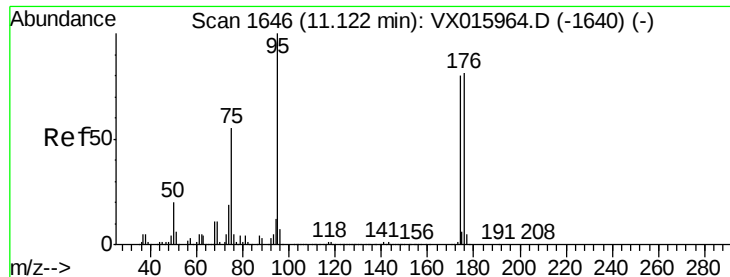
100 66.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 54.194 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ192I-20200430

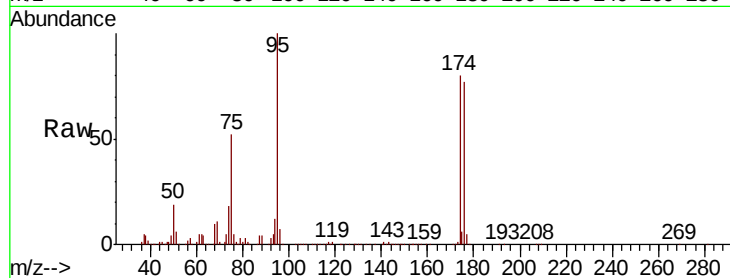
Tot Ion: 95 Resp: 221066

Ion Ratio Lower Upper

95 100

174 80.3 0.0 165.0

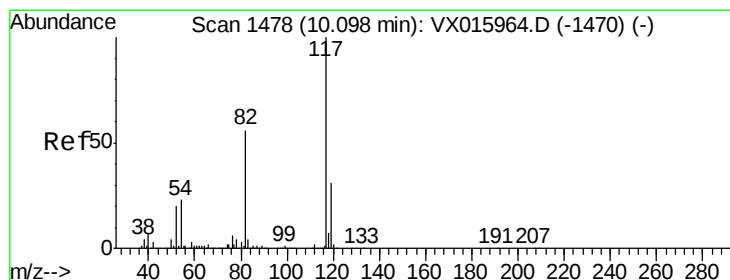
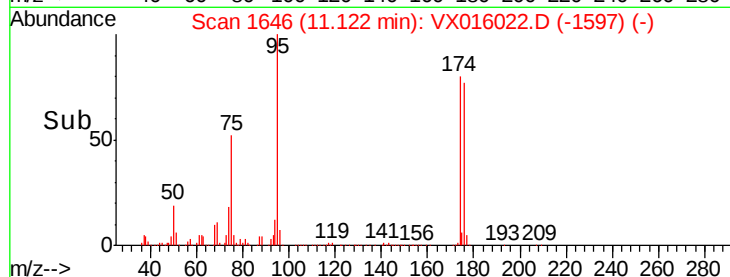
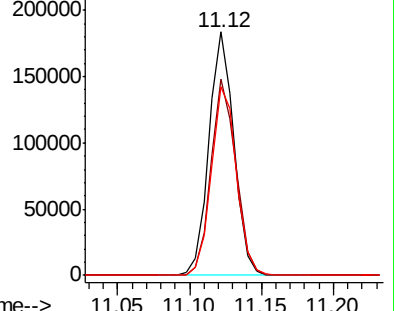
176 78.1 0.0 163.2



Abundance Ion 94.90 (94.60 to 95.60): VX015964.D (-1640) (-)

Ion 173.80 (173.50 to 174.50): VX015964.D (-1640) (-)

Ion 175.80 (175.50 to 176.50): VX015964.D (-1640) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

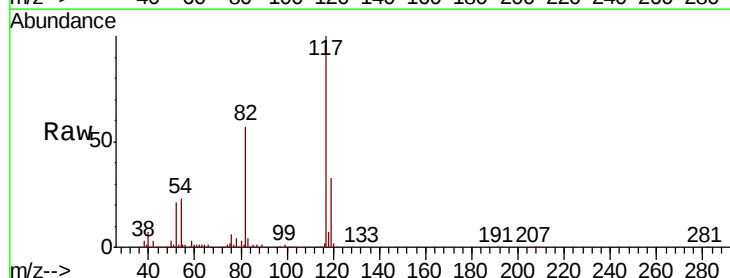
Tgt Ion: 117 Resp: 436224

Ion Ratio Lower Upper

117 100

82 57.3 44.5 66.7

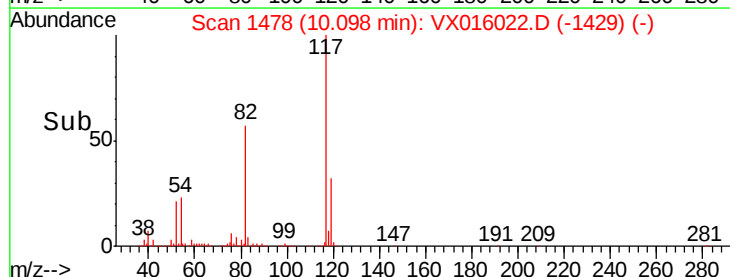
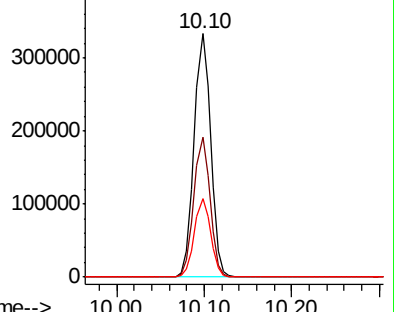
119 32.5 25.0 37.6

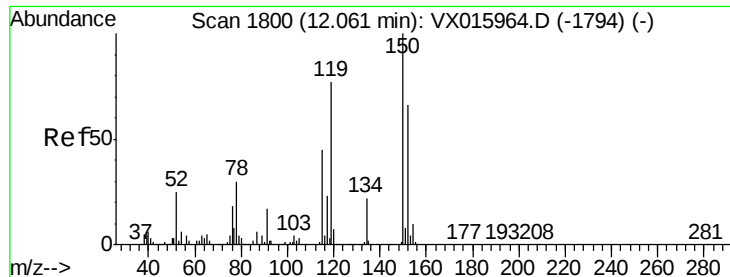


Abundance Ion 116.90 (116.60 to 117.60): VX015964.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX015964.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX015964.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ192I-20200430

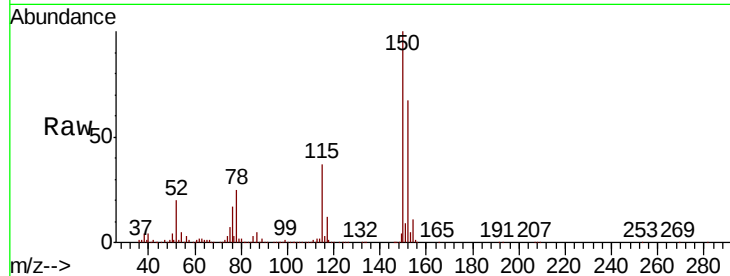
Tot Ion:152 Resp: 226877

Ion Ratio Lower Upper

152 100

115 59.2 40.9 122.7

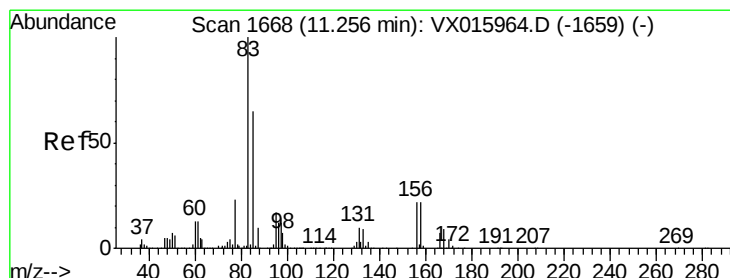
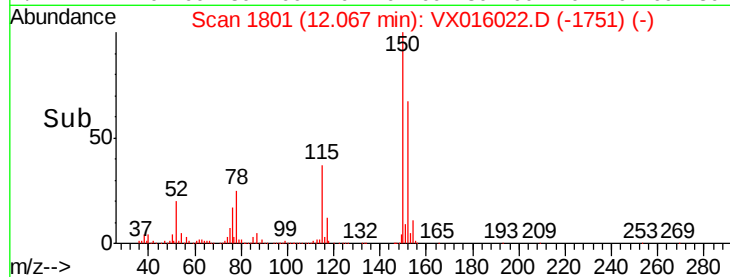
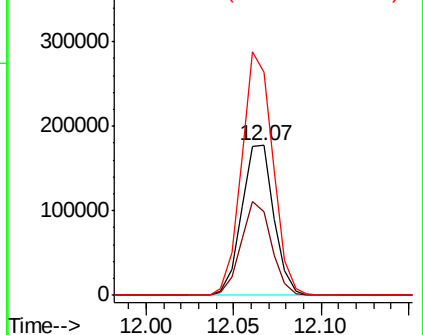
150 157.7 0.0 342.4



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: 3.707 ug/l

RT: 11.20 min Scan# 1659

Delta R.T. -0.05 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

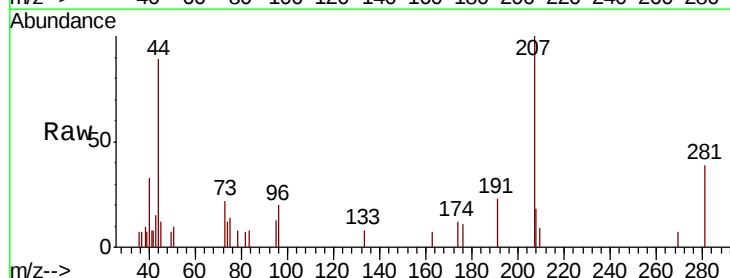
Tgt Ion: 83 Resp: 23

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

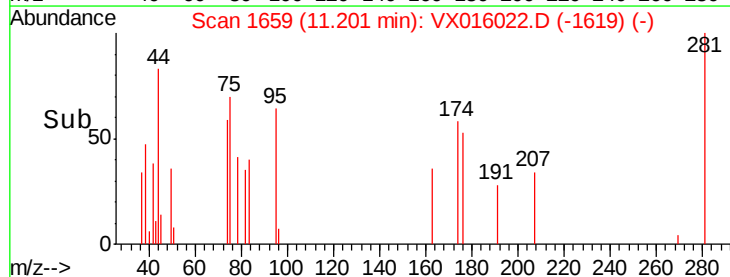
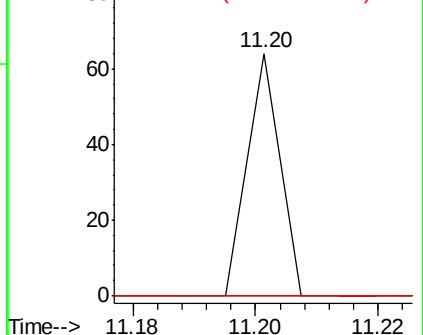
85 0.0 32.2 96.6#

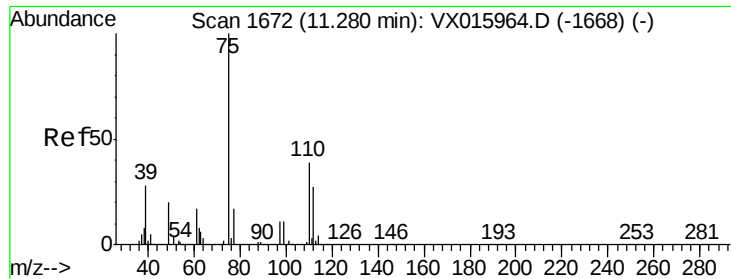


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 24.131 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

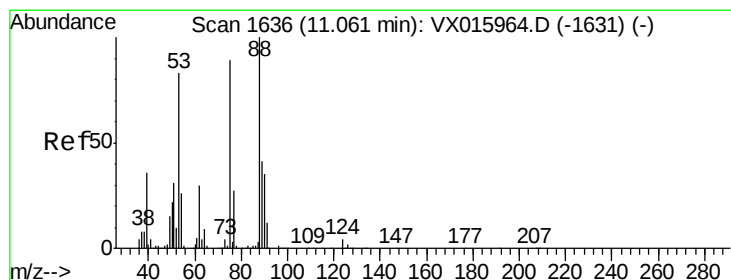
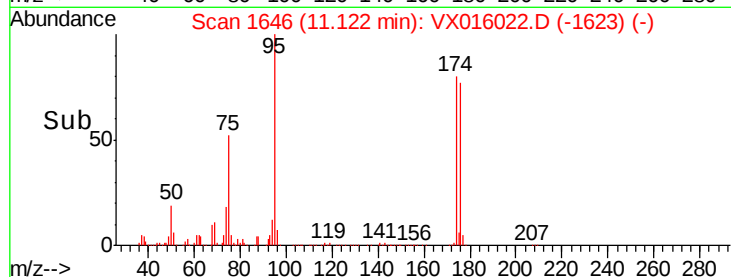
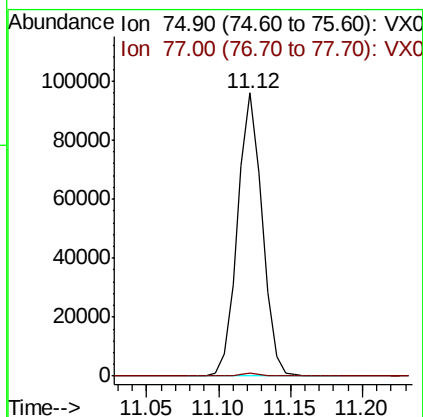
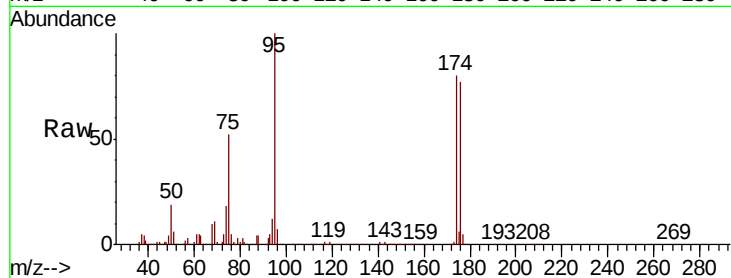
SA-PZ192I-20200430

Tot Ion: 75 Resp: 114881

Ion Ratio Lower Upper

75 100

77 1.3 21.6 65.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.026 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

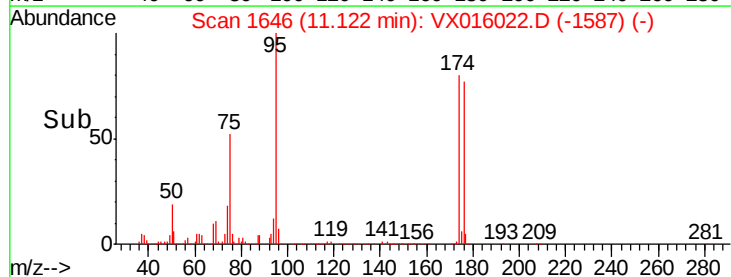
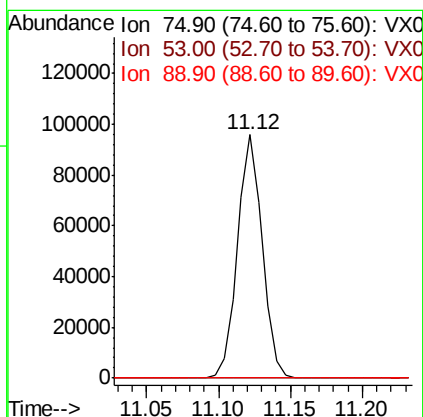
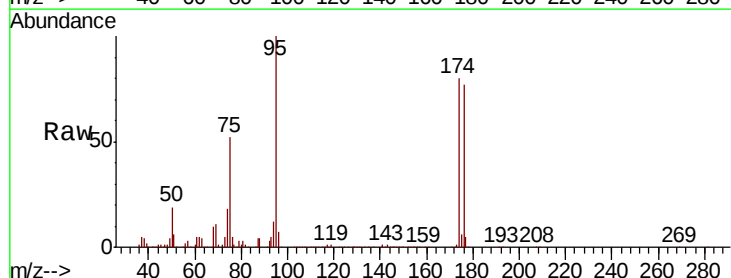
Tgt Ion: 75 Resp: 114881

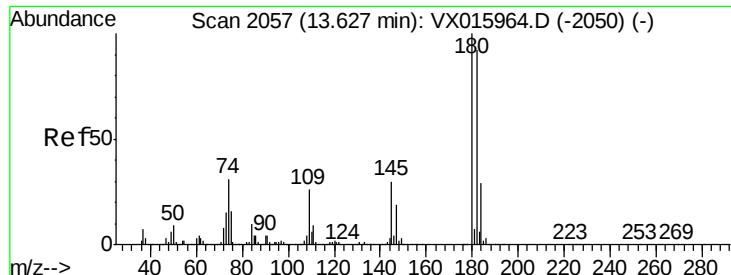
Ion Ratio Lower Upper

75 100

53 0.1 78.3 117.5#

89 0.0 37.2 55.8#





#93

1,2,4-Trichlorobenzene

Concen: 0.350 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016022.D

Acq: 01 May 2020 19:18

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ192I-20200430

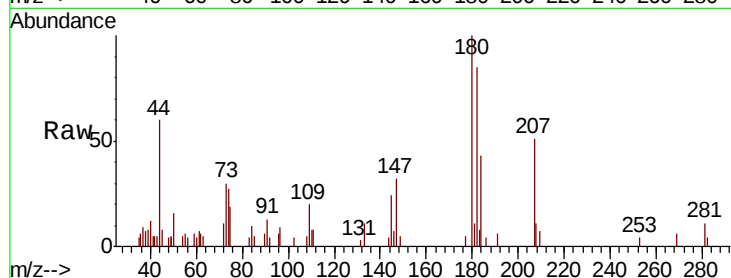
Tot Ion:180 Resp: 1819

Ion Ratio Lower Upper

180 100

182 100.5 46.9 140.6

145 45.1 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

