

Data File : VX016696.D
Acq On : 11 Jun 2020 12:10
Operator : JC/SP
Sample : L2963-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
Z1-DUP-0568-200609

Quant Time: Jun 12 06:54:22 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	201961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	315161	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	318616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	158340	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	122604	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
35) Dibromofluoromethane	5.47	113	99163	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	
50) Toluene-d8	8.70	98	385869	51.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.18%	
62) 4-Bromofluorobenzene	11.12	95	153459	52.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.16%	

Target Compounds

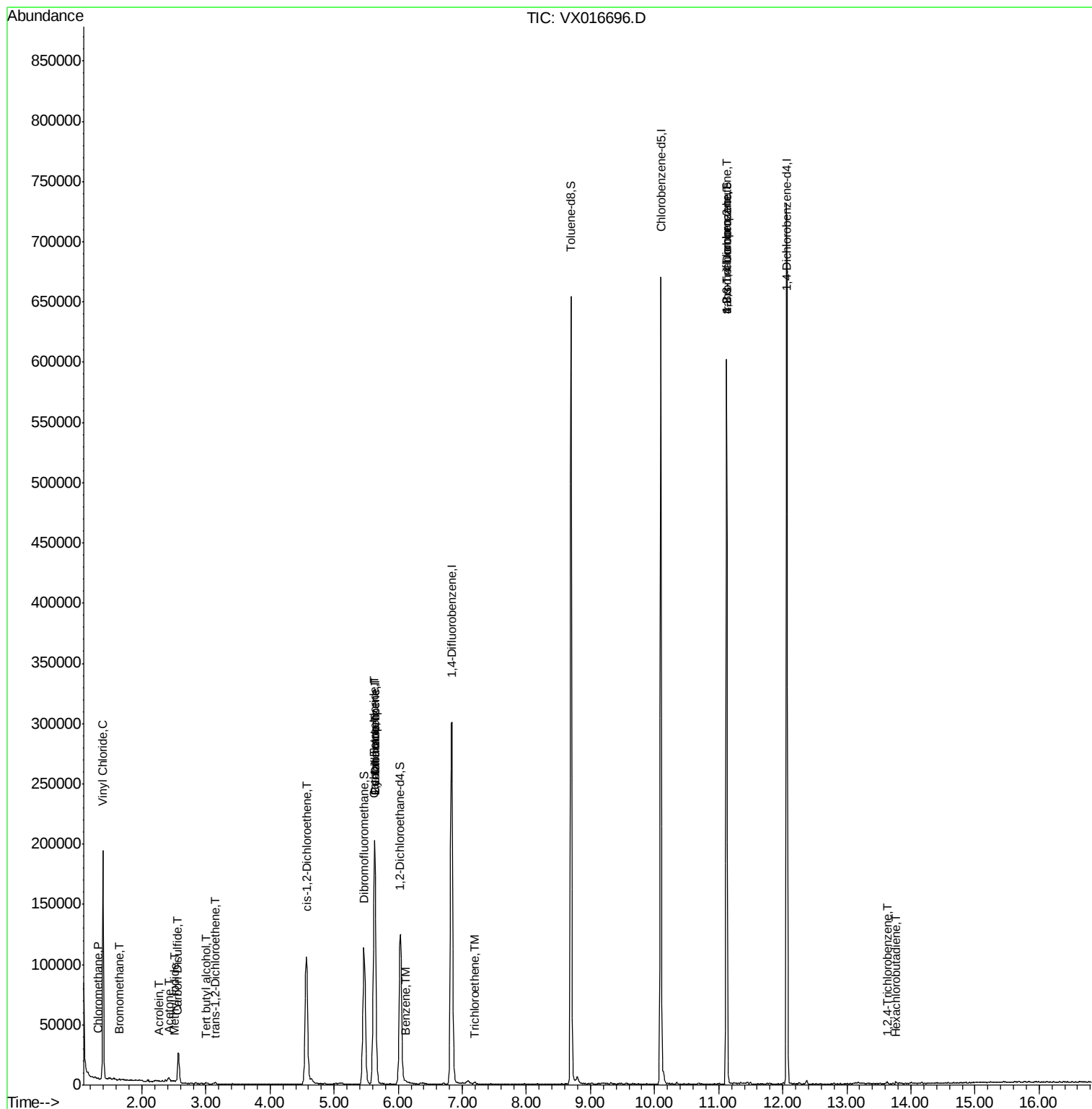
						Qvalue
3) Chloromethane	1.31	50	553	0.230	ug/l #	81
4) Vinyl Chloride	1.39	62	111858	44.038	ug/l	99
5) Bromomethane	1.64	94	304	0.246	ug/l #	76
10) Methyl Iodide	2.51	142	288	3.179	ug/l #	76
11) Tert butyl alcohol	3.00	59	825	1.283	ug/l #	72
13) Acrolein	2.26	56	230	0.841	ug/l	93
16) Acetone	2.42	43	2469	2.247	ug/l	99
17) Carbon Disulfide	2.56	76	1205	0.209	ug/l #	50
21) trans-1,2-Dichloroethene	3.15	96	684	0.318	ug/l #	34
27) cis-1,2-Dichloroethene	4.57	96	71590	28.789	ug/l	88
31) Cyclohexane	5.63	56	3766	1.080	ug/l #	28
36) 1,1-Dichloropropene	5.63	75	13625	4.566	ug/l #	50
38) Carbon Tetrachloride	5.62	117	18413	5.872	ug/l #	16
40) Benzene	6.12	78	2736	0.308	ug/l #	88
44) Trichloroethene	7.20	130	637	0.226	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	74354	21.364	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	74354	52.551	ug/l #	14
93) 1,2,4-Trichlorobenzene	13.63	180	693	0.216	ug/l	84
94) Hexachlorobutadiene	13.76	225	256	0.203	ug/l	73

(#) = 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# 746

Delta R.T. 0.01 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

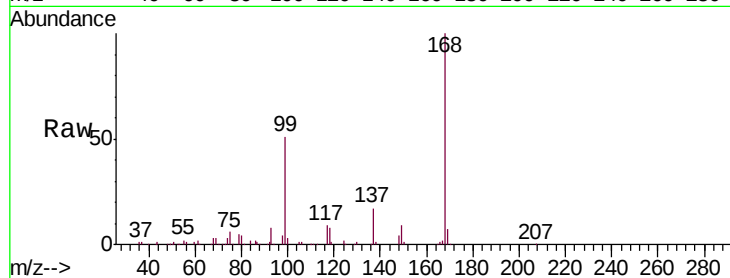
Z1-DUP-0568-200609

Tgt Ion:168 Resp: 201961

Ion Ratio Lower Upper

168 100

99 50.7 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

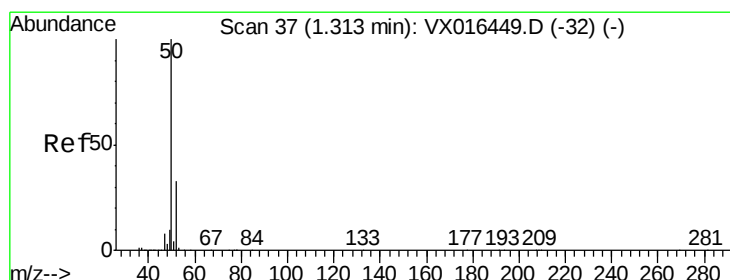
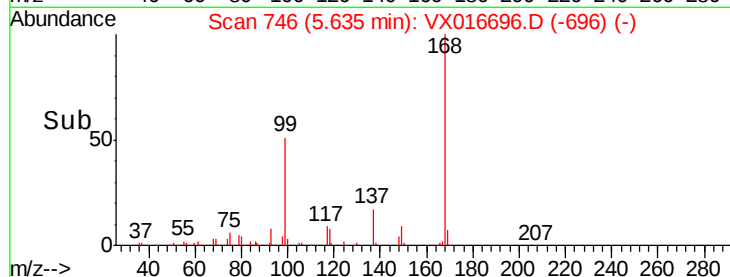
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.230 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016696.D

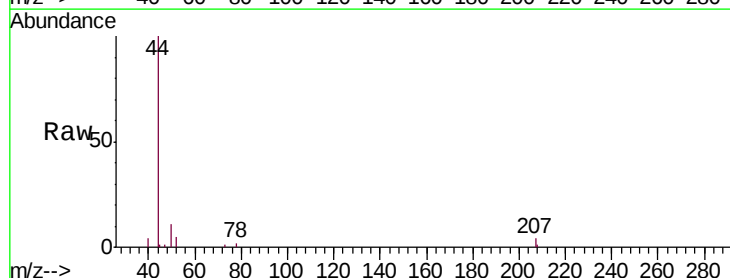
Acq: 11 Jun 2020 12:10

Tgt Ion: 50 Resp: 553

Ion Ratio Lower Upper

50 100

52 43.4 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

500

400

300

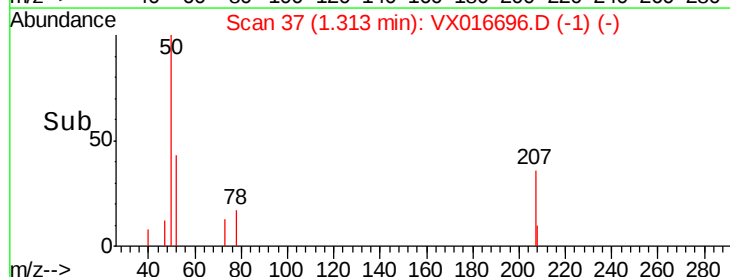
200

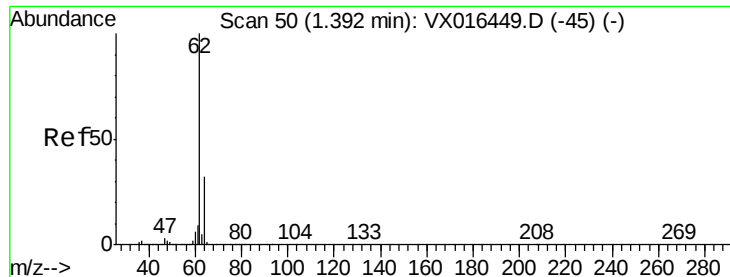
100

0

Time-->

1.28 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 44.038 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

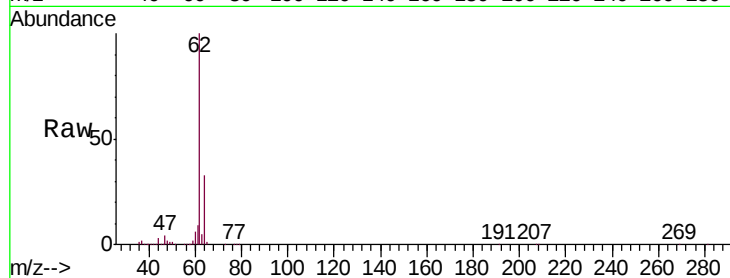
Z1-DUP-0568-200609

Tgt Ion: 62 Resp: 111858

Ion Ratio Lower Upper

62 100

64 32.7 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

120000

100000

80000

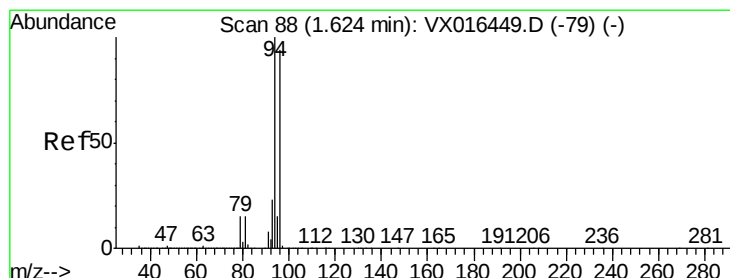
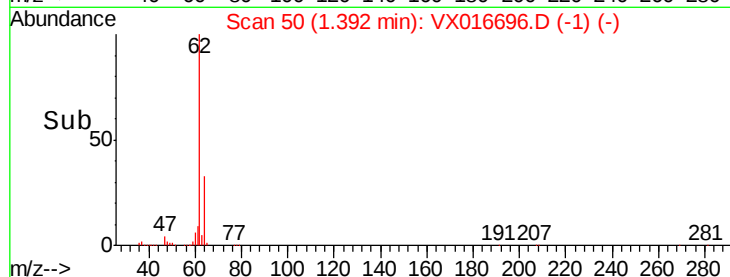
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.246 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016696.D

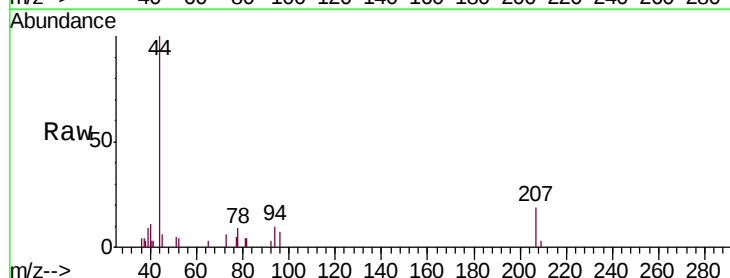
Acq: 11 Jun 2020 12:10

Tgt Ion: 94 Resp: 304

Ion Ratio Lower Upper

94 100

96 70.3 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

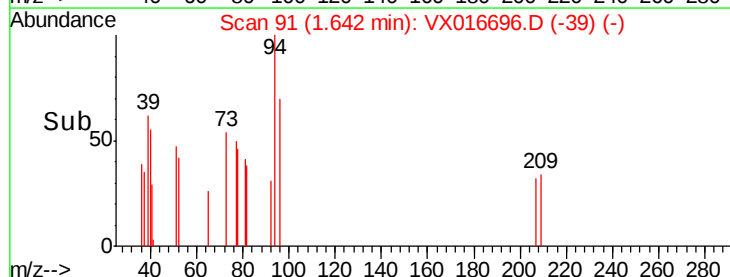
150

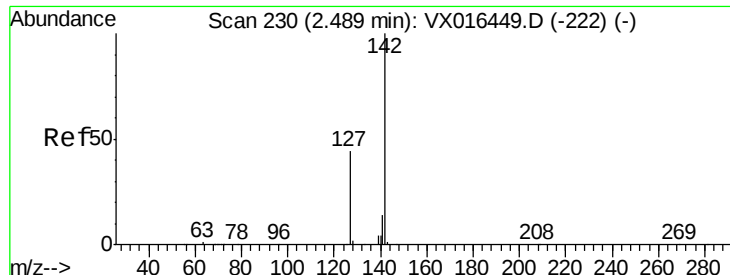
100

50

0

Time-->

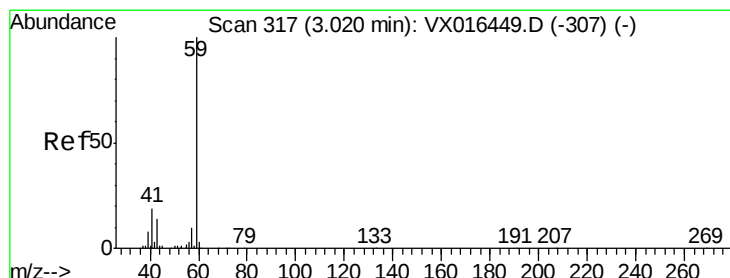
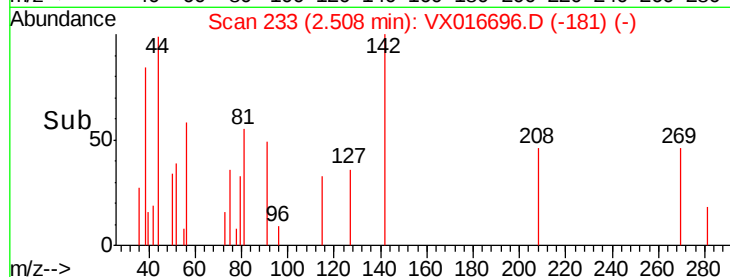
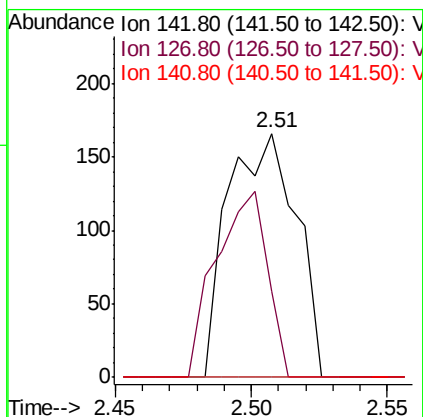
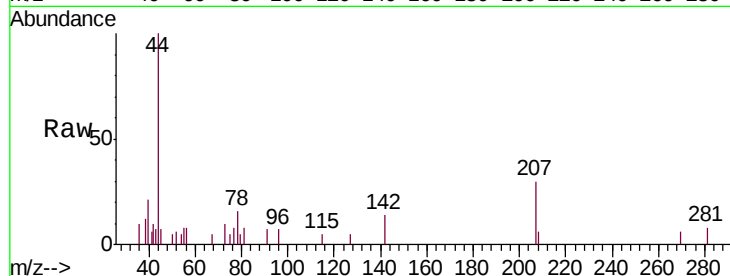




#10
Methyl Iodide
Concen: 3.179 ug/l
RT: 2.51 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

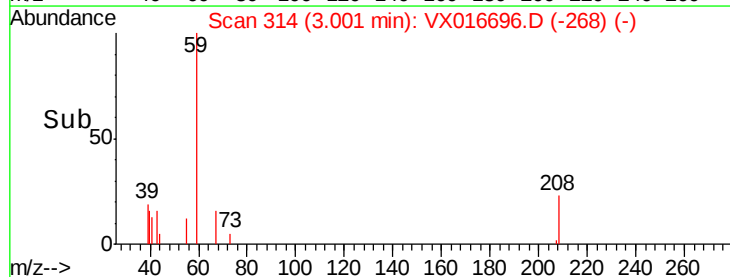
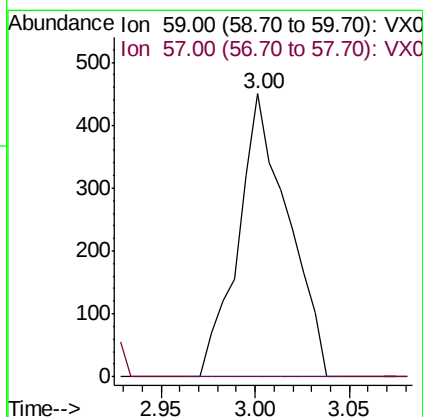
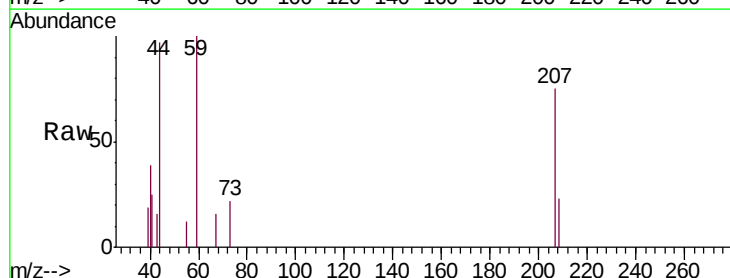
Instrument :
MSVOA_X
ClientSampleId :
Z1-DUP-0568-200609

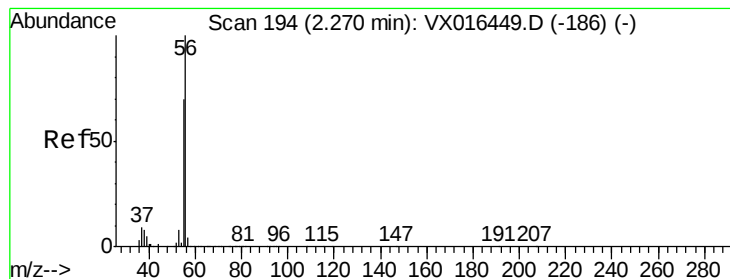
Tgt Ion: 142 Resp: 288
Ion Ratio Lower Upper
142 100
127 57.6 35.3 52.9#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.283 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

Tgt Ion: 59 Resp: 825
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.841 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

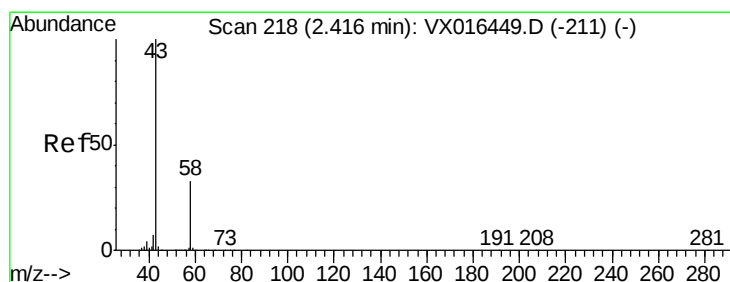
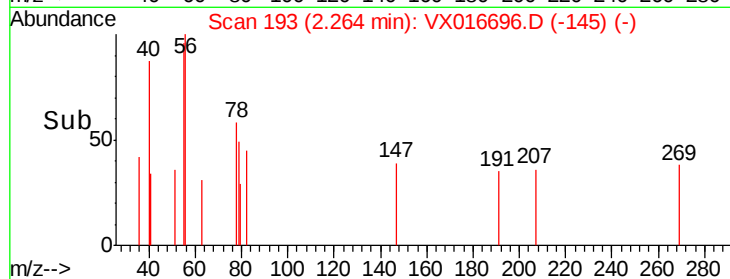
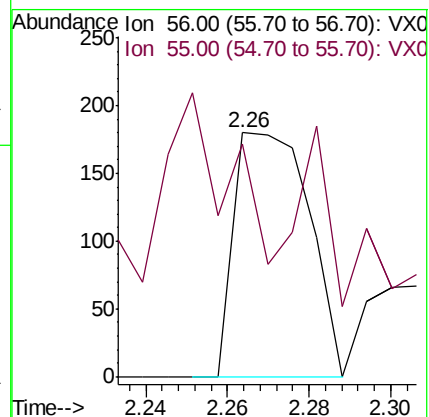
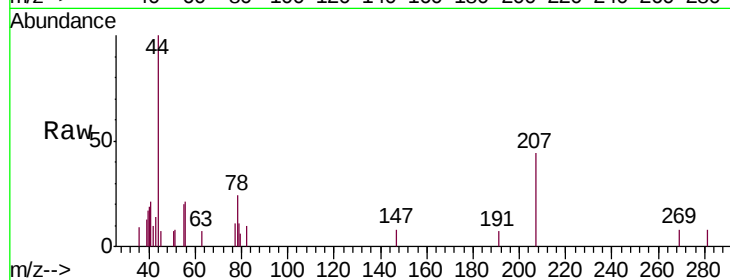
Z1-DUP-0568-200609

Tgt Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 78.7 58.3 87.5



#16

Acetone

Concen: 2.247 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016696.D

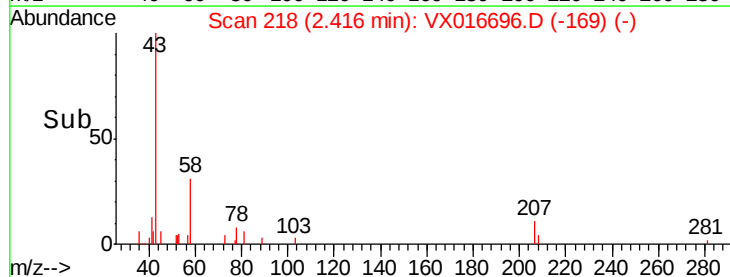
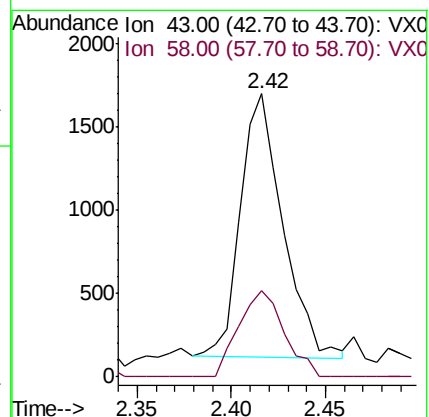
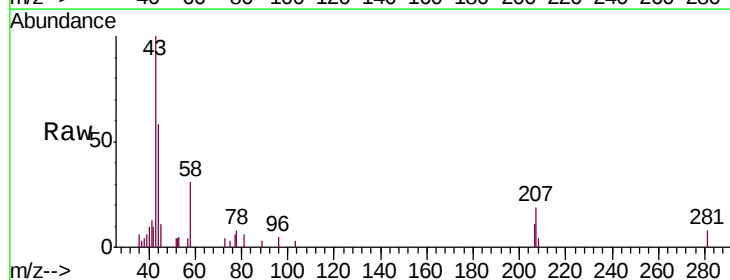
Acq: 11 Jun 2020 12:10

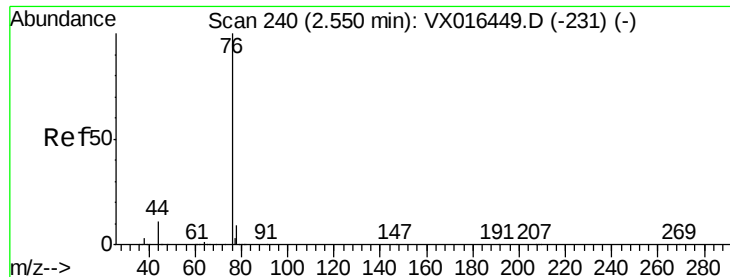
Tgt Ion: 43 Resp: 2469

Ion Ratio Lower Upper

43 100

58 33.2 26.1 39.1

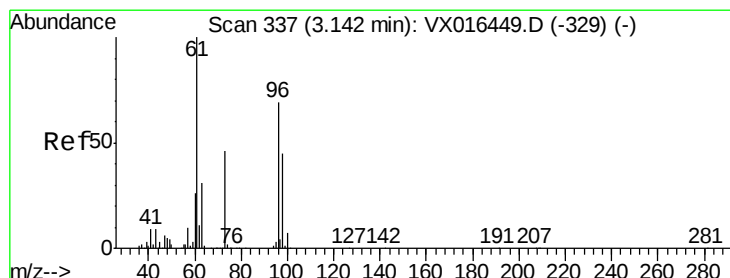
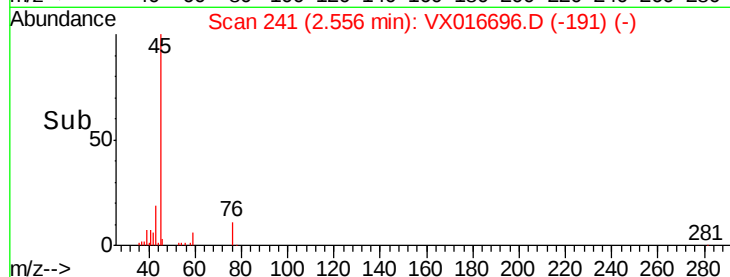
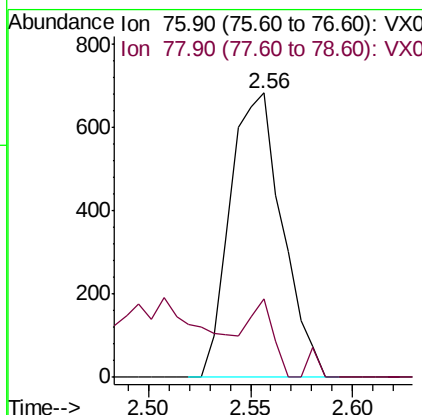
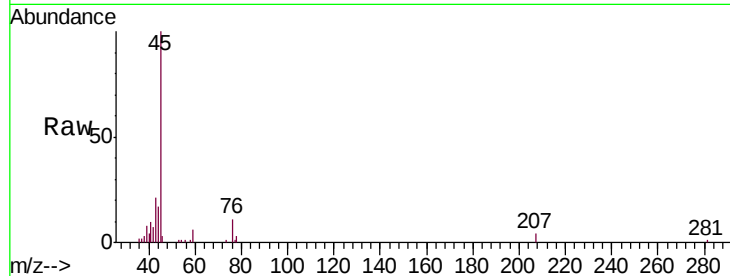




#17
Carbon Disulfide
Concen: 0.209 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

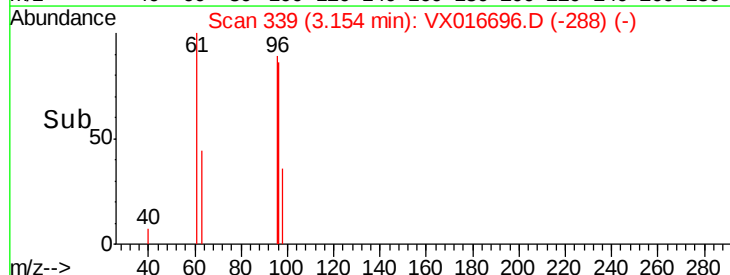
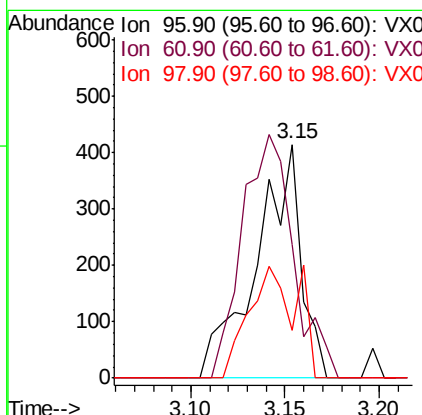
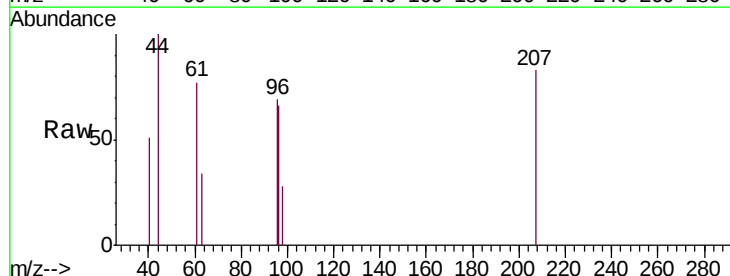
Instrument :
MSVOA_X
ClientSampleId :
Z1-DUP-0568-200609

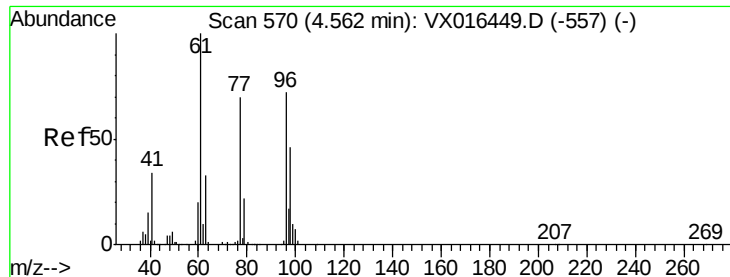
Tgt Ion: 76 Resp: 1205
Ion Ratio Lower Upper
76 100
78 27.3 7.4 11.0#



#21
trans-1,2-Dichloroethene
Concen: 0.318 ug/l
RT: 3.15 min Scan# 339
Delta R.T. 0.01 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

Tgt Ion: 96 Resp: 684
Ion Ratio Lower Upper
96 100
61 57.1 115.3 172.9#
98 20.5 51.9 77.9#



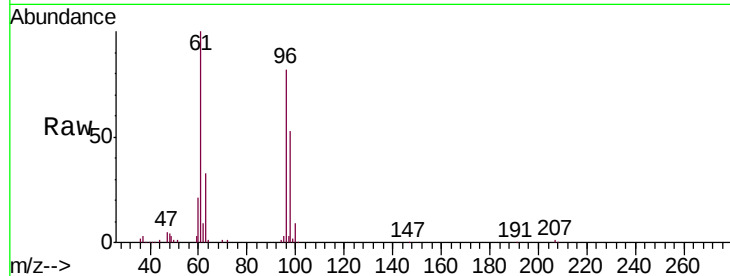


#27

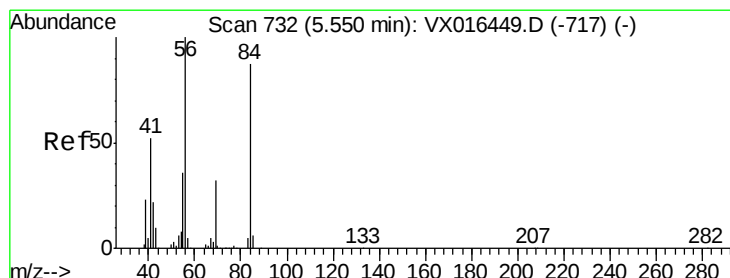
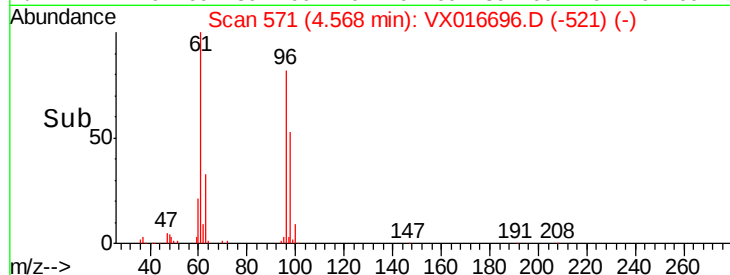
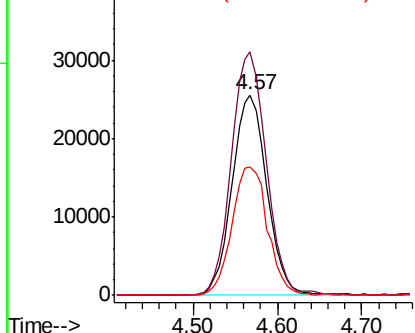
cis-1,2-Dichloroethene
Concen: 28.789 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

Instrument :
MSVOA_X
ClientSampleId :
Z1-DUP-0568-200609

Tgt Ion: 96 Resp: 71590
Ion Ratio Lower Upper
96 100
61 122.2 0.0 284.6
98 65.2 0.0 127.2



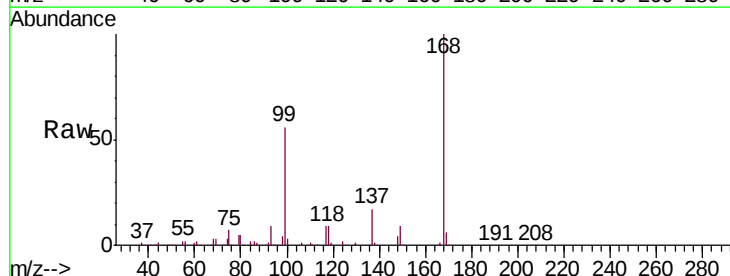
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



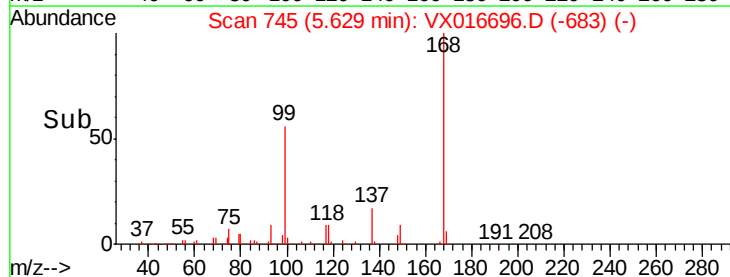
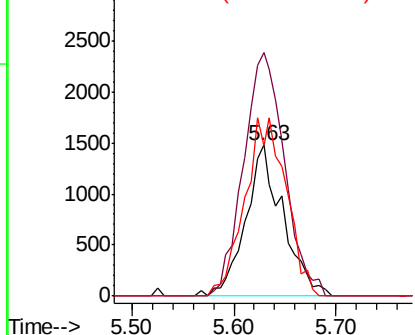
#31

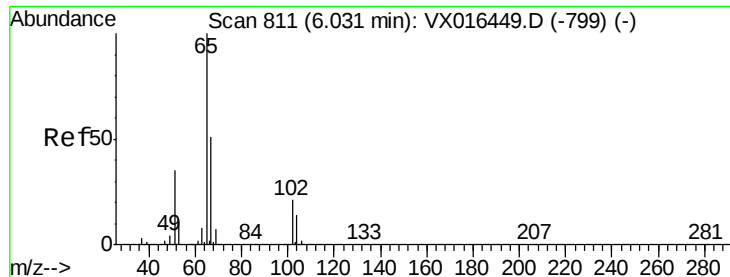
Cyclohexane
Concen: 1.080 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

Tgt Ion: 56 Resp: 3766
Ion Ratio Lower Upper
56 100
69 161.4 25.7 38.5#
84 99.7 70.0 105.0



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: 48.883 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

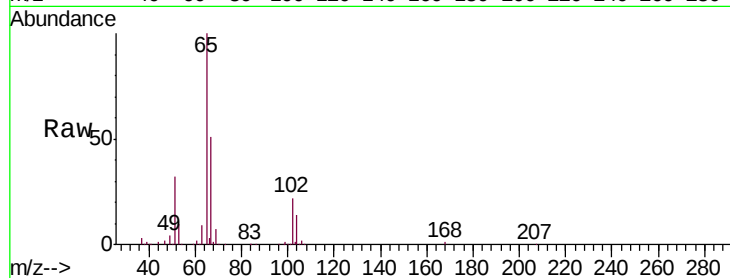
Z1-DUP-0568-200609

Tgt Ion: 65 Resp: 122604

Ion Ratio Lower Upper

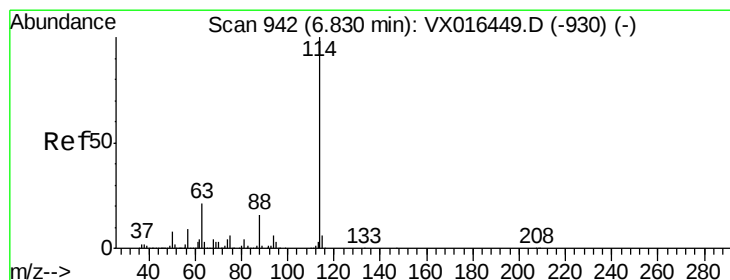
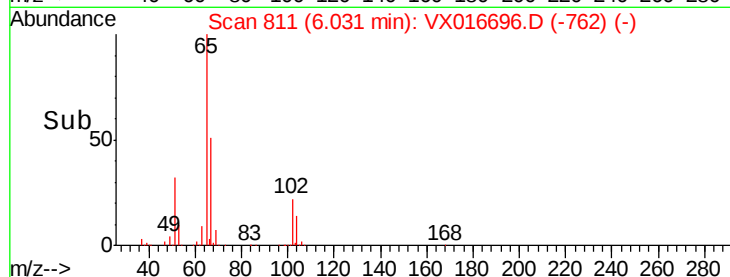
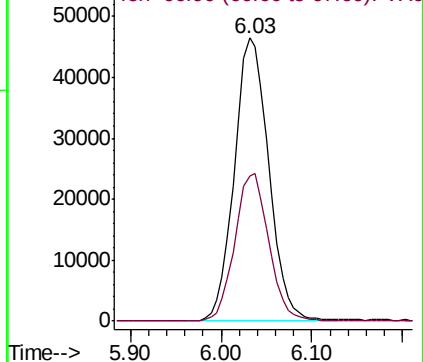
65 100

67 51.5 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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

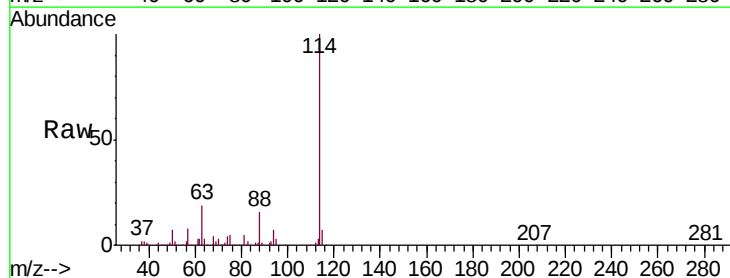
Tgt Ion: 114 Resp: 315161

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

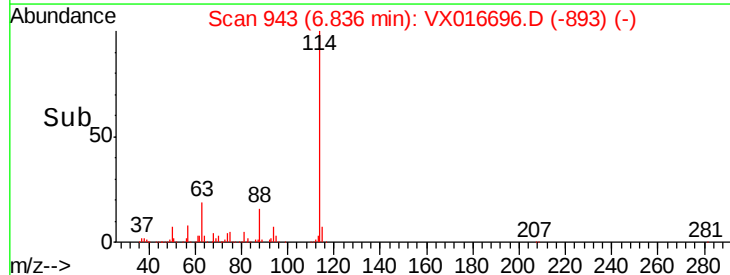
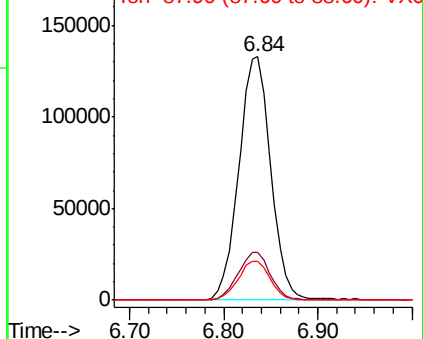
88 15.7 0.0 32.8

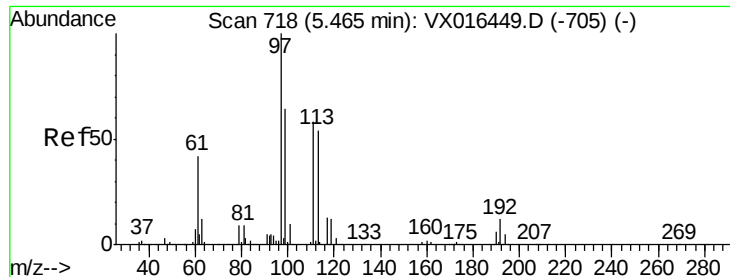


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.099 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

Z1-DUP-0568-200609

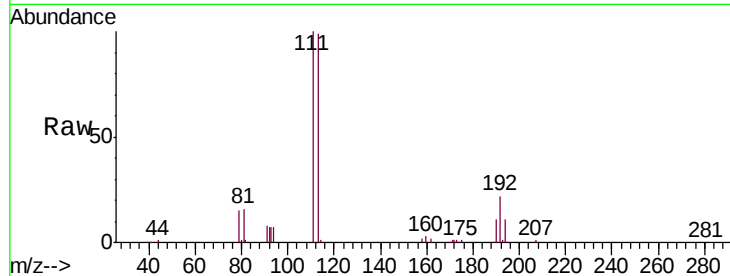
Tgt Ion:113 Resp: 99163

Ion Ratio Lower Upper

113 100

111 102.2 83.0 124.6

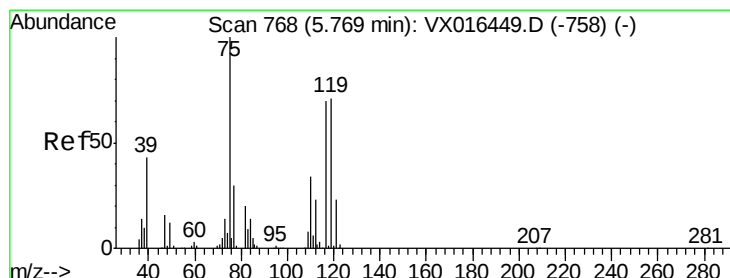
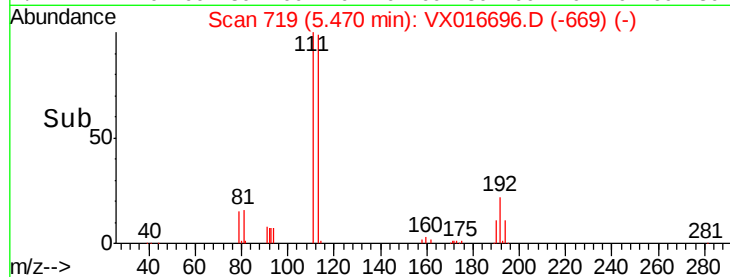
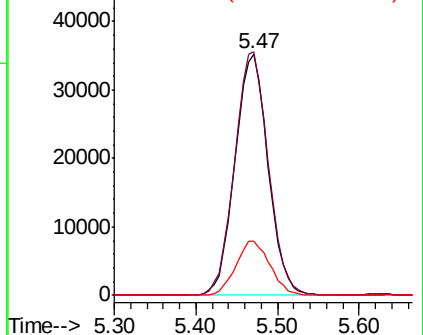
192 23.3 17.7 26.5



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: 4.566 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

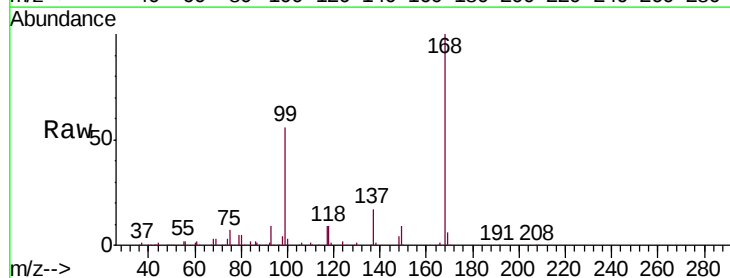
Tgt Ion: 75 Resp: 13625

Ion Ratio Lower Upper

75 100

110 9.2 17.4 52.3#

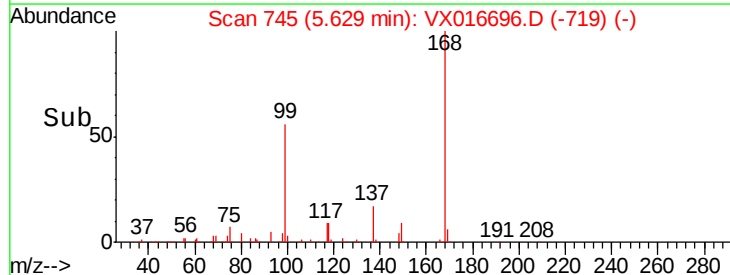
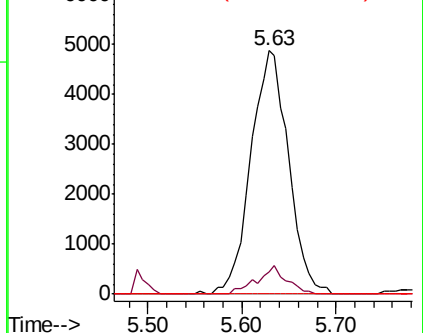
77 0.0 24.2 36.4#

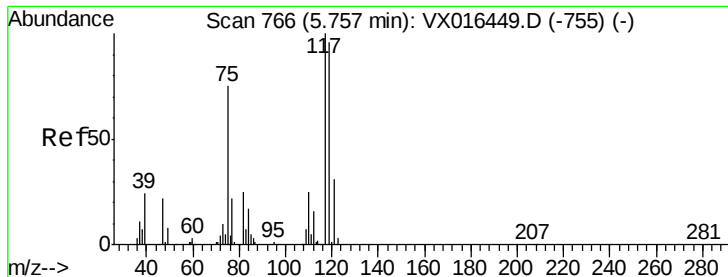


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.872 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

Z1-DUP-0568-200609

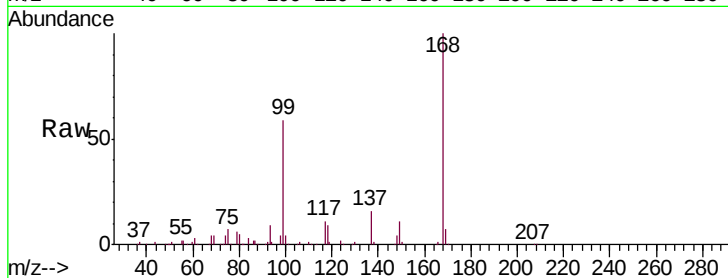
Tgt Ion:117 Resp: 18413

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

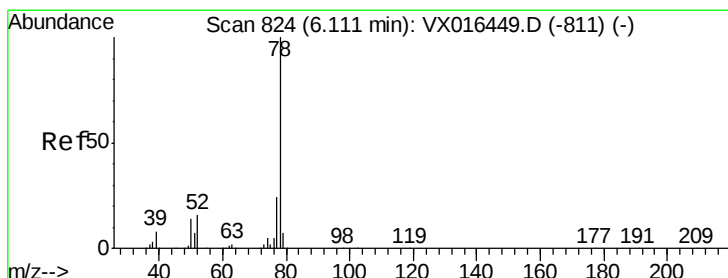
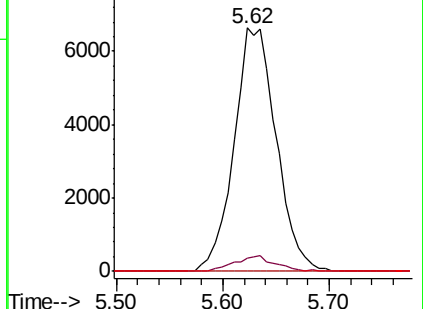
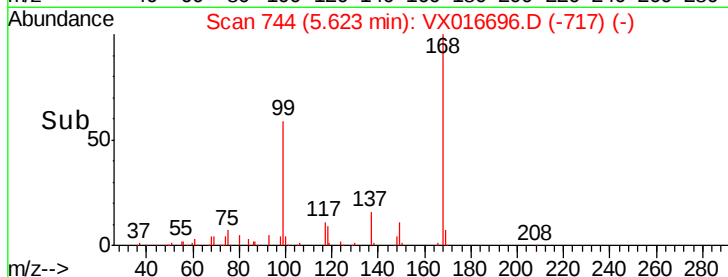
121 0.0 24.6 37.0#



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: 0.308 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX016696.D

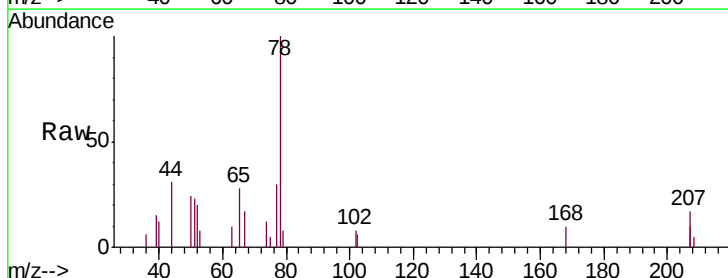
Acq: 11 Jun 2020 12:10

Tgt Ion: 78 Resp: 2736

Ion Ratio Lower Upper

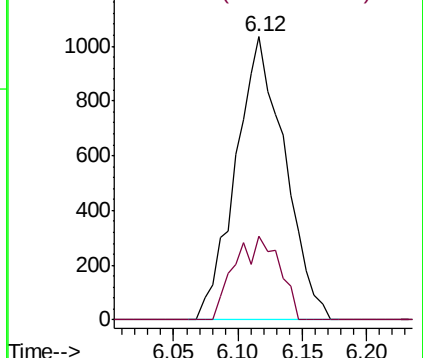
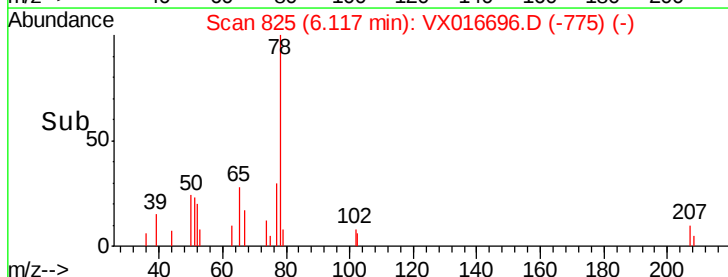
78 100

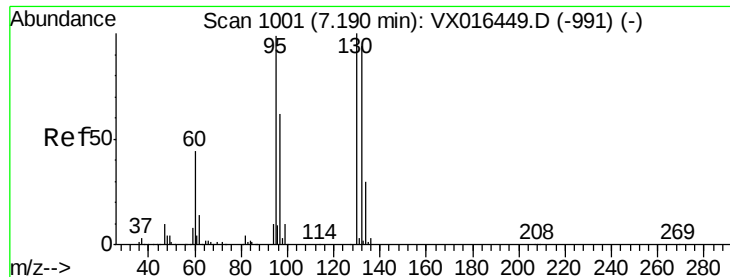
77 29.6 18.9 28.3#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.226 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

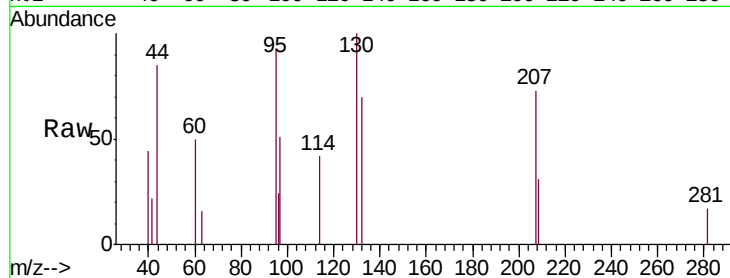
Z1-DUP-0568-200609

Tgt Ion:130 Resp: 637

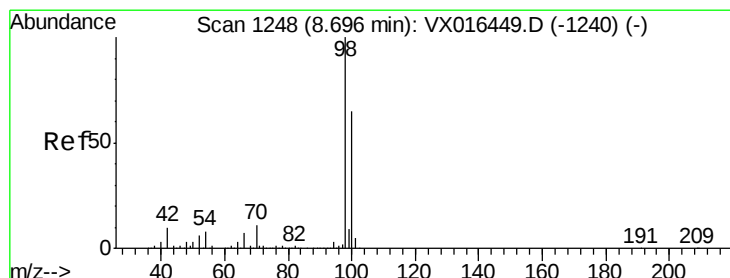
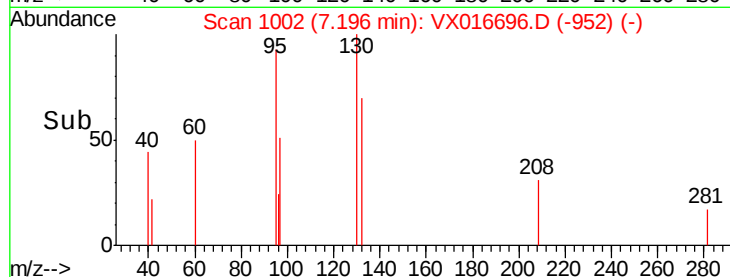
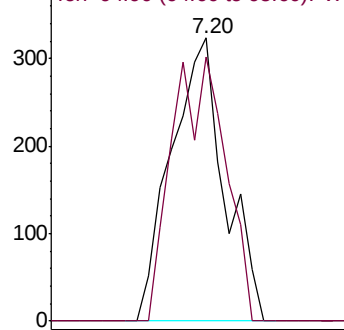
Ion Ratio Lower Upper

130 100

95 93.5 0.0 198.2



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 51.087 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016696.D

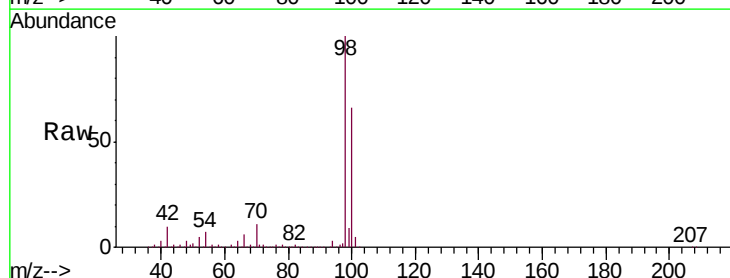
Acq: 11 Jun 2020 12:10

Tgt Ion: 98 Resp: 385869

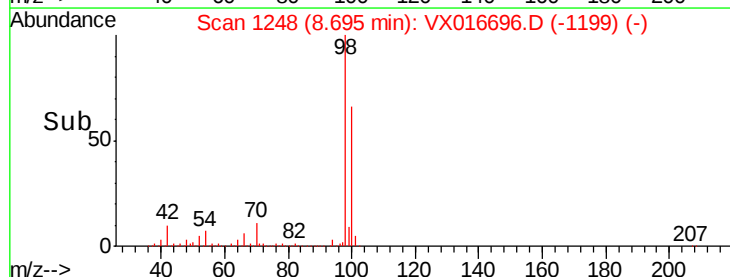
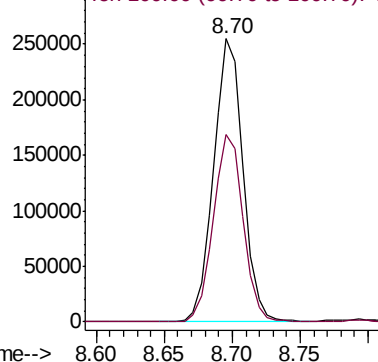
Ion Ratio Lower Upper

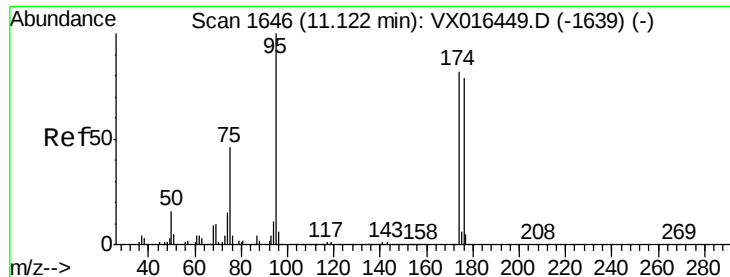
98 100

100 67.2 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.581 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

Z1-DUP-0568-200609

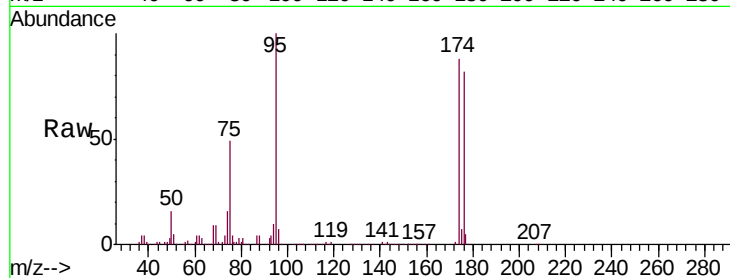
Tgt Ion: 95 Resp: 153459

Ion Ratio Lower Upper

95 100

174 87.6 0.0 163.0

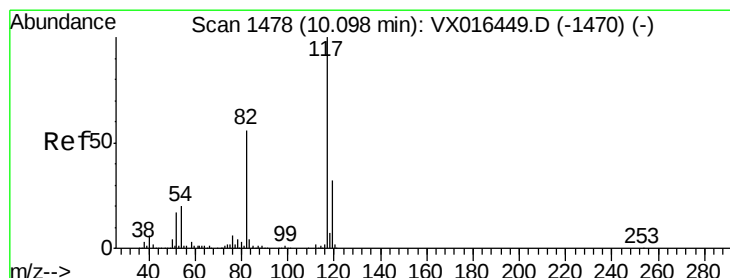
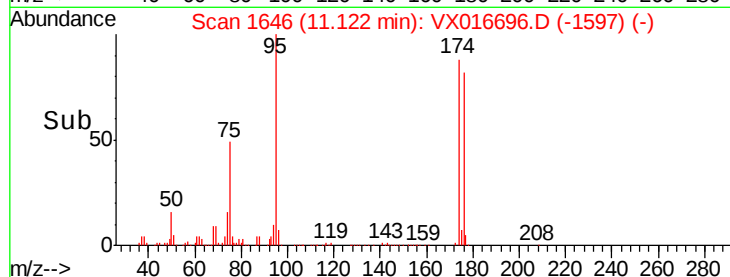
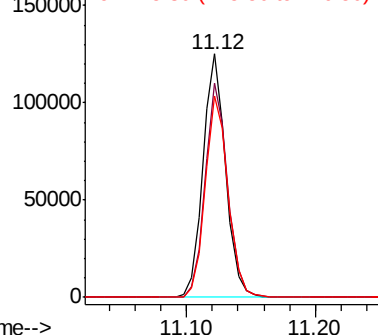
176 83.5 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

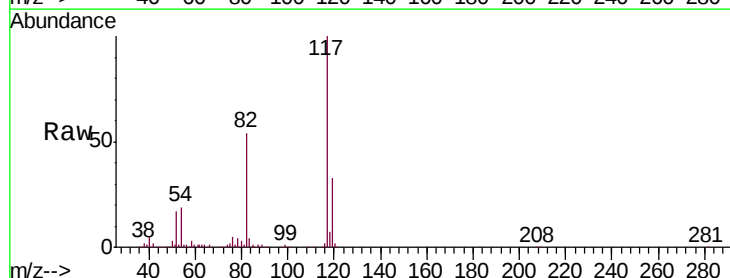
Tgt Ion: 117 Resp: 318616

Ion Ratio Lower Upper

117 100

82 53.6 45.0 67.6

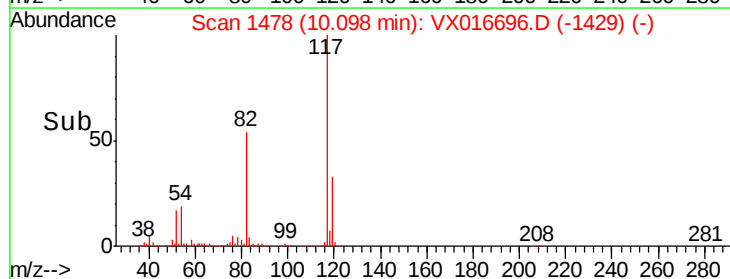
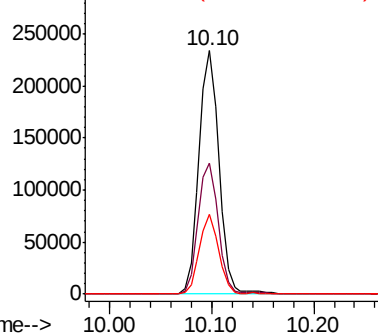
119 32.8 25.8 38.8

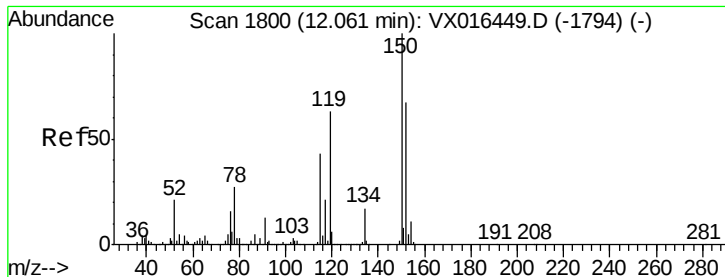


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016696.D

Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

Z1-DUP-0568-200609

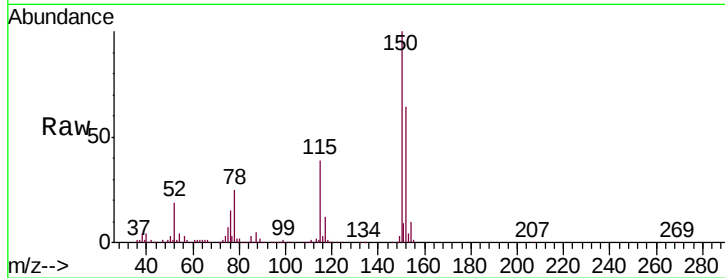
Tgt Ion:152 Resp: 158340

Ion Ratio Lower Upper

152 100

115 58.5 39.9 119.6

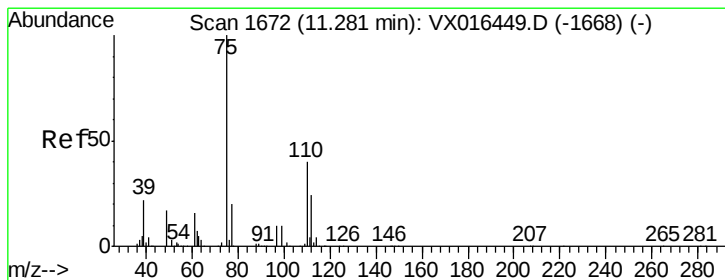
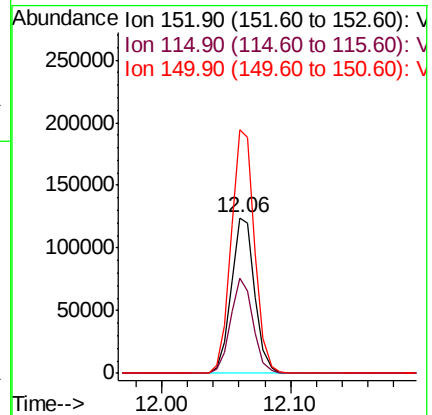
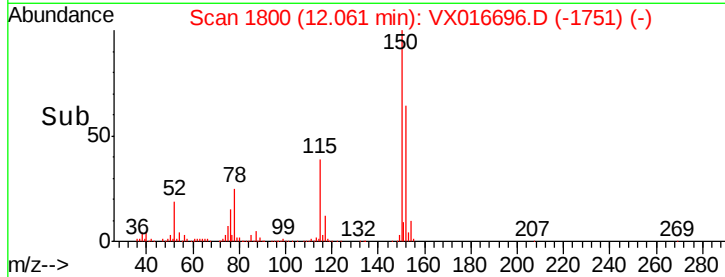
150 156.9 0.0 341.0



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



#76

1,2,3-Trichloropropane

Concen: 21.364 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016696.D

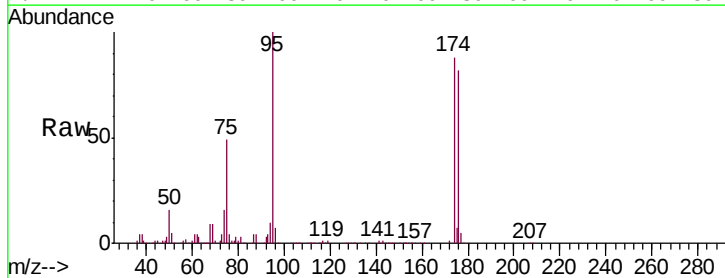
Acq: 11 Jun 2020 12:10

Tgt Ion: 75 Resp: 74354

Ion Ratio Lower Upper

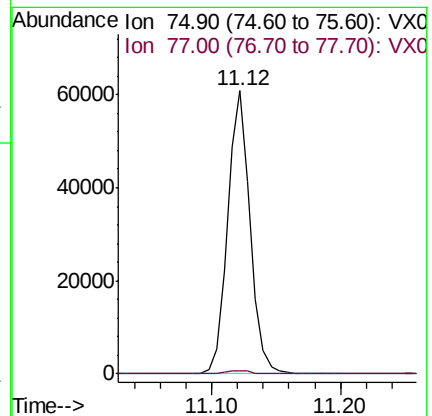
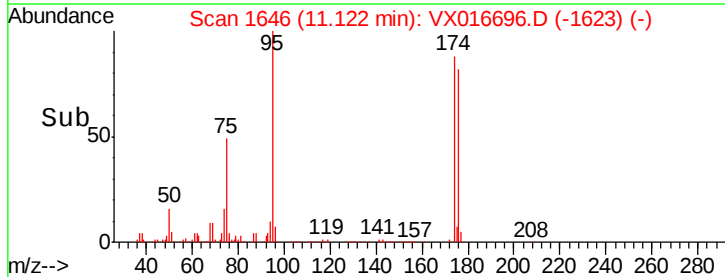
75 100

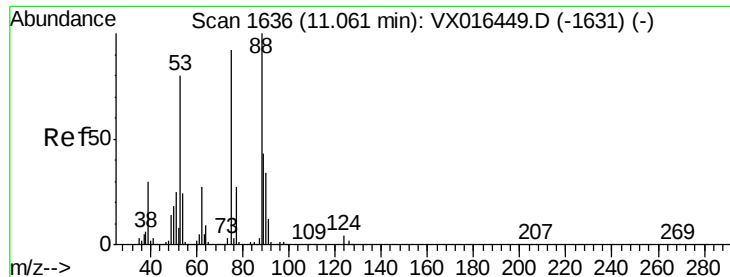
77 1.3 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

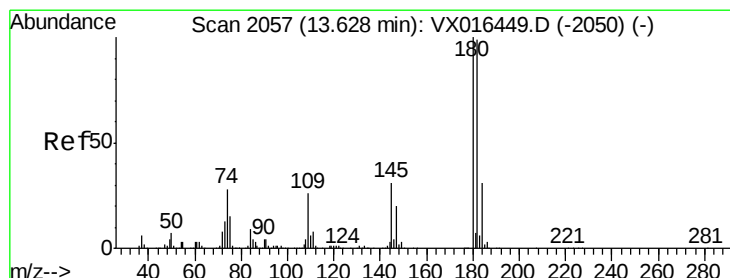
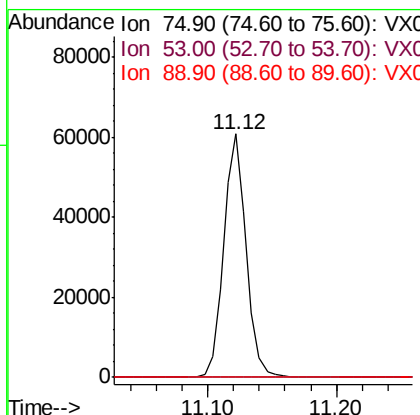
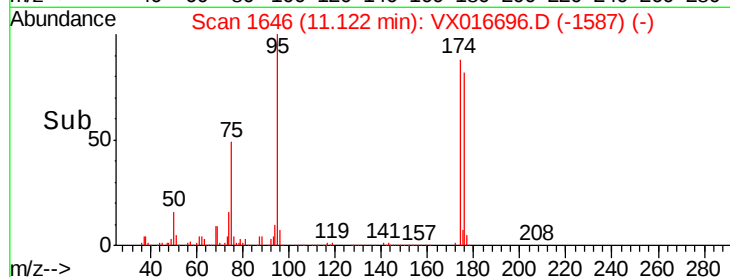
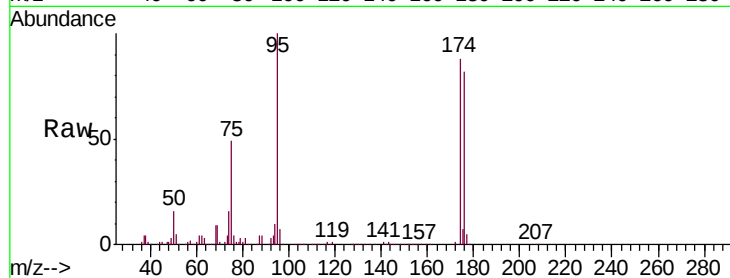




#81
trans-1,4-Dichloro-2-butene
Concen: 52.551 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

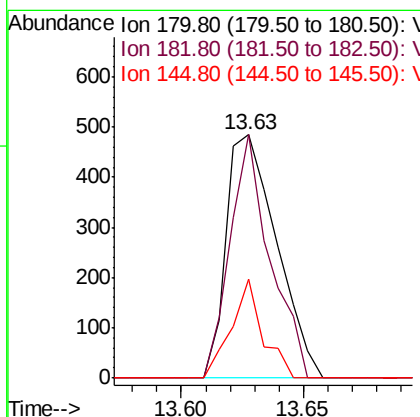
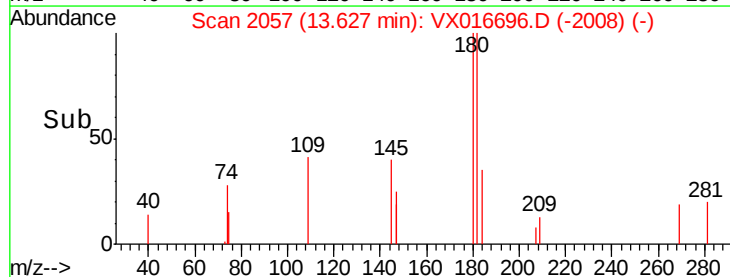
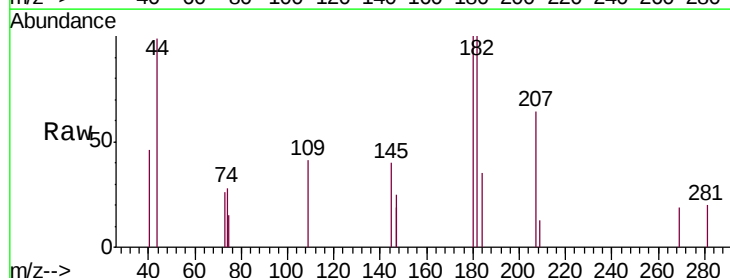
Instrument :
MSVOA_X
ClientSampleId :
Z1-DUP-0568-200609

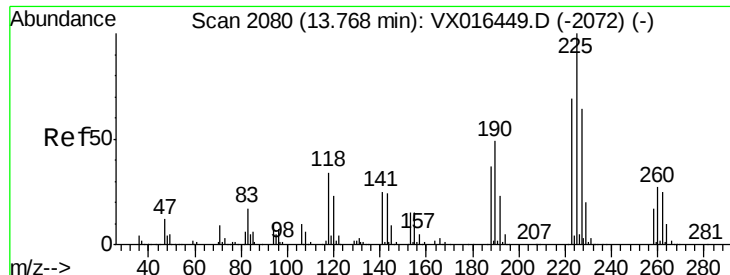
Tgt Ion: 75 Resp: 74354
Ion Ratio Lower Upper
75 100
53 0.1 71.3 106.9#
89 0.1 36.6 55.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.216 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. -0.00 min
Lab File: VX016696.D
Acq: 11 Jun 2020 12:10

Tgt Ion: 180 Resp: 693
Ion Ratio Lower Upper
180 100
182 79.1 48.3 144.8
145 25.1 15.4 46.2





#94

Hexachlorobutadiene

Concen: 0.203 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016696.D

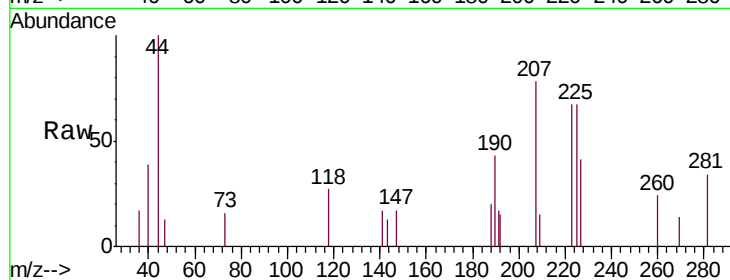
Acq: 11 Jun 2020 12:10

Instrument :

MSVOA_X

ClientSampleId :

Z1-DUP-0568-200609



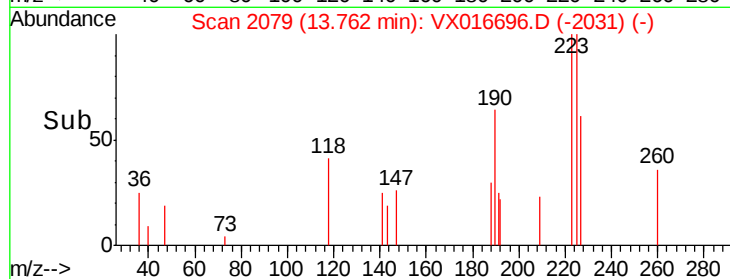
Tgt Ion: 225 Resp: 256

Ion Ratio Lower Upper

225 100

223 89.1 32.3 96.8

227 81.3 31.6 94.7



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

