

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040119\
 Data File : VX008567.D
 Acq On : 01 Apr 2019 14:37
 Operator : JC/SP
 Sample : K2189-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 01:11:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	233921	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	390114	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	336960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141619	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	162635	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	5.50	113	119201	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	
50) Toluene-d8	8.71	98	490230	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
62) 4-Bromofluorobenzene	11.13	95	166158	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	

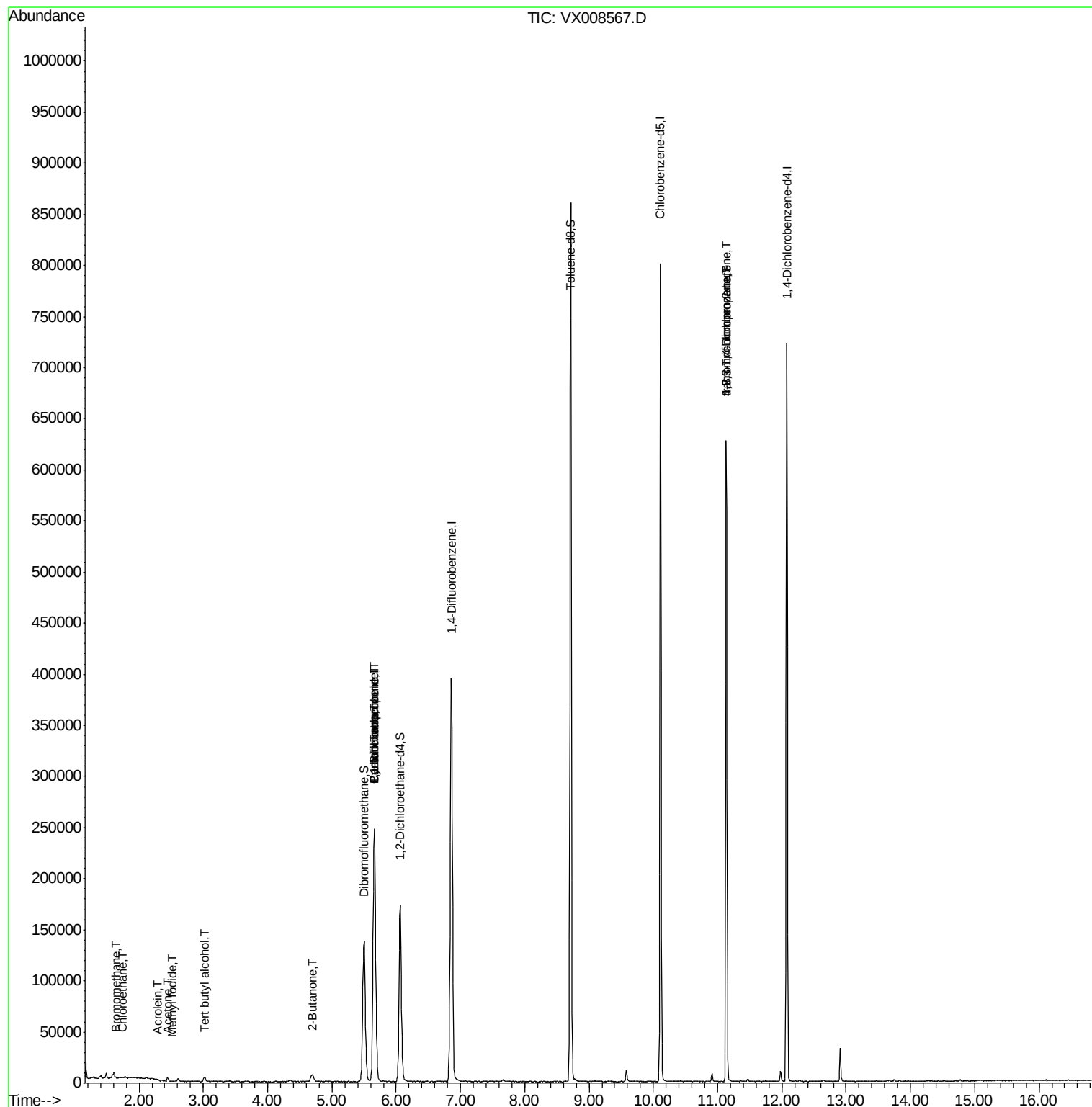
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	615	Below Cal		97
5) Bromomethane	1.64	94	364	1.981	ug/l	84
6) Chloroethane	1.74	64	1223	0.536	ug/l #	71
10) Methyl Iodide	2.51	142	101	4.165	ug/l #	42
11) Tert butyl alcohol	3.03	59	3097	3.942	ug/l #	78
13) Acrolein	2.29	56	252	0.442	ug/l #	33
16) Acetone	2.44	43	3492	1.884	ug/l	93
17) Carbon Disulfide	2.57	76	713	Below Cal	#	90
20) Methylene Chloride	2.85	84	275	Below Cal		95
21) trans-1,2-Dichloroethene	2.98	96	18	Below Cal	#	1
25) 2-Butanone	4.69	43	1151	0.387	ug/l	91
31) Cyclohexane	5.66	56	5805	1.021	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20157	4.846	ug/l #	50
38) Carbon Tetrachloride	5.66	117	22742	6.552	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	85348	20.272	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	85348	64.927	ug/l #	9

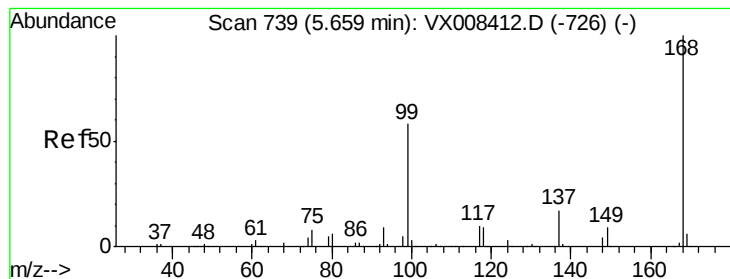
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 26 07:57:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

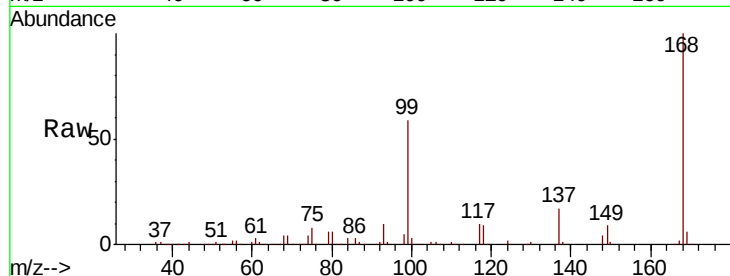
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 233921

Ion Ratio Lower Upper

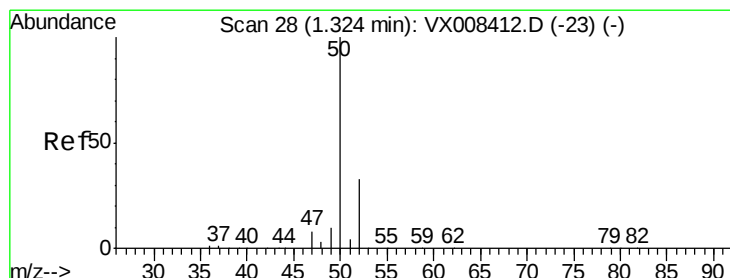
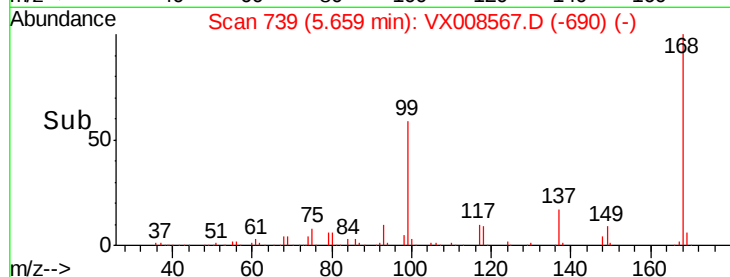
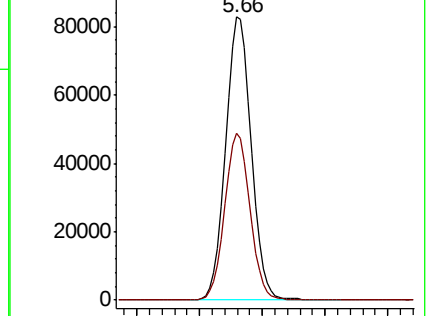
168 100

99 58.8 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008567.D

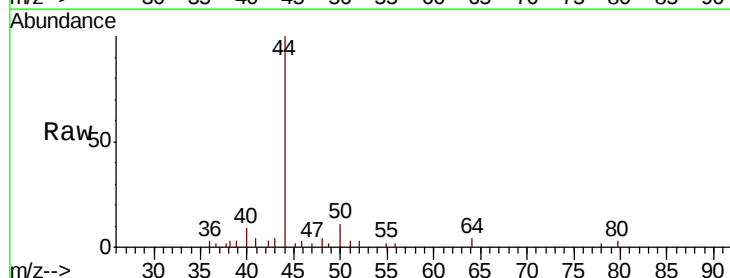
Acq: 01 Apr 2019 14:37

Tgt Ion: 50 Resp: 615

Ion Ratio Lower Upper

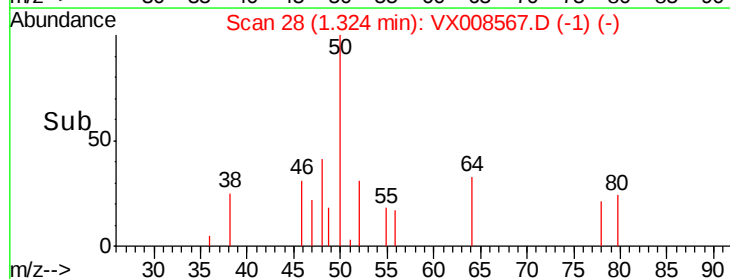
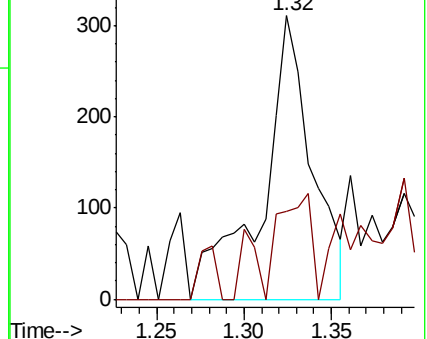
50 100

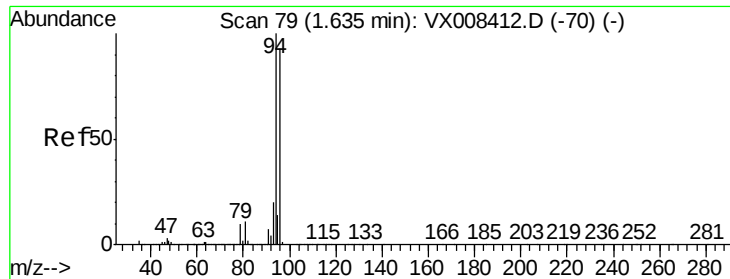
52 31.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 1.981 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Instrument :

MSVOA_X

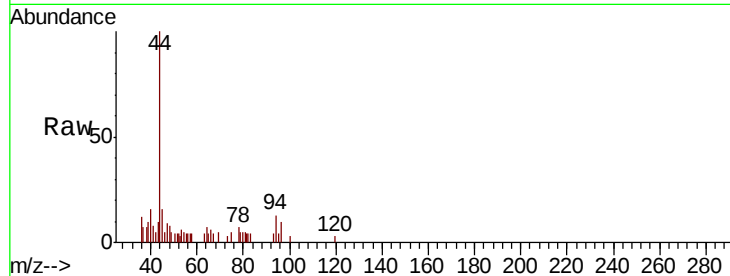
ClientSampled :

Tot Ion: 94 Resp: 364

Ion Ratio Lower Upper

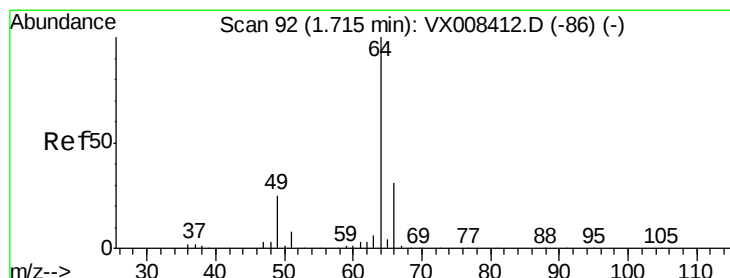
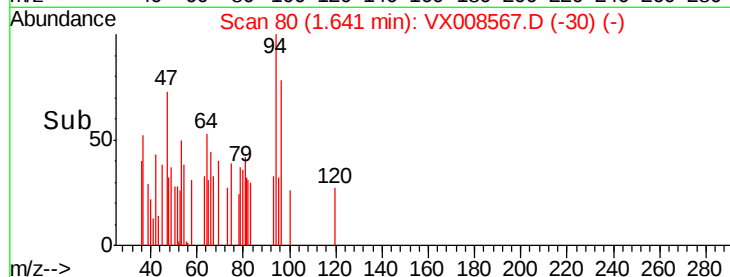
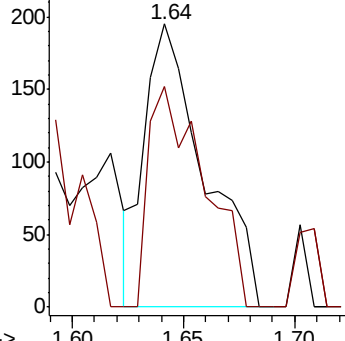
94 100

96 77.9 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.536 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX008567.D

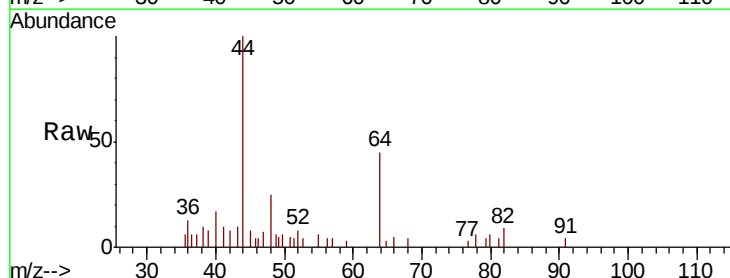
Acq: 01 Apr 2019 14:37

Tgt Ion: 64 Resp: 1223

Ion Ratio Lower Upper

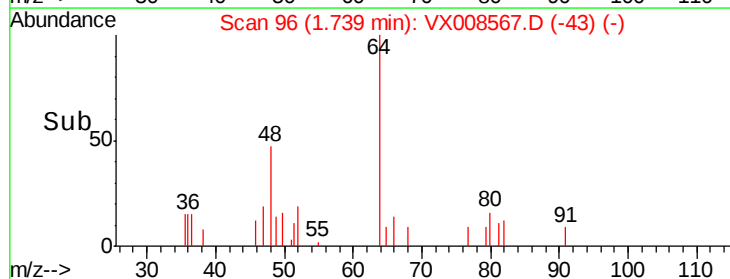
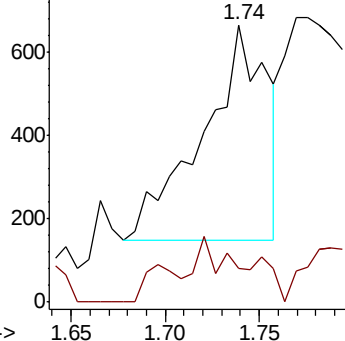
64 100

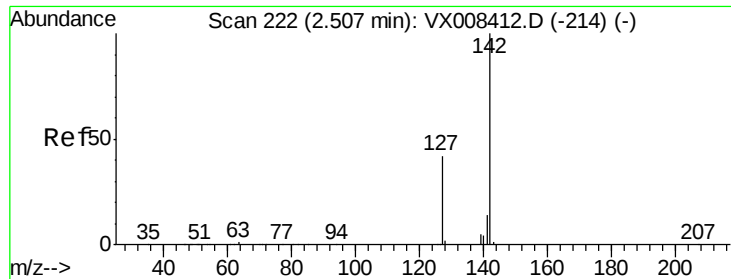
66 15.5 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

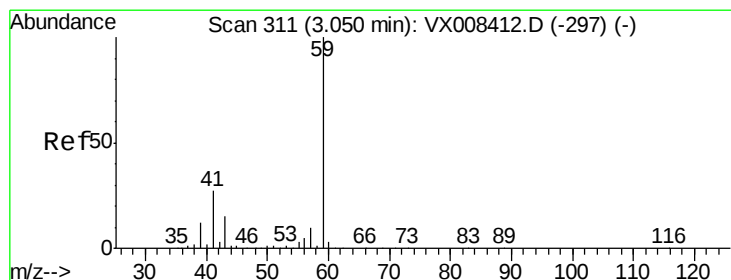
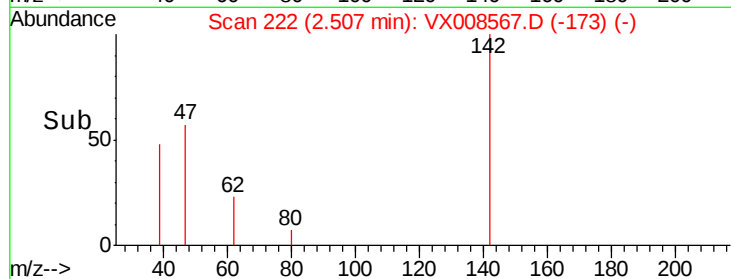
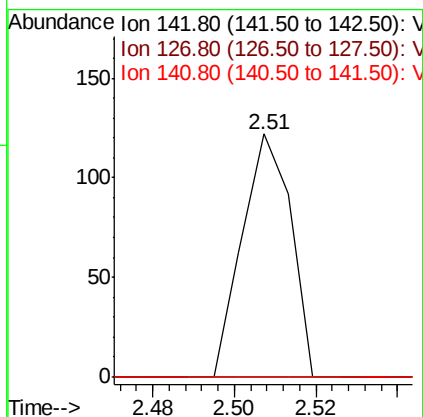
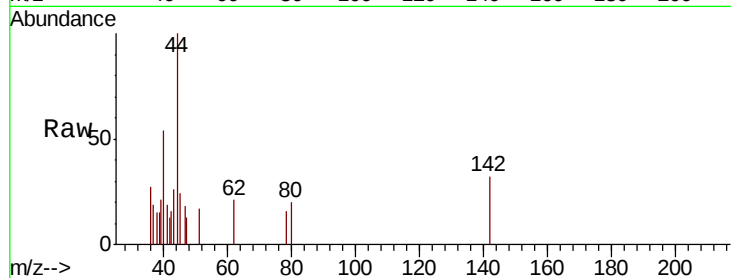




#10
Methvl Iodide
Concen: 4.165 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

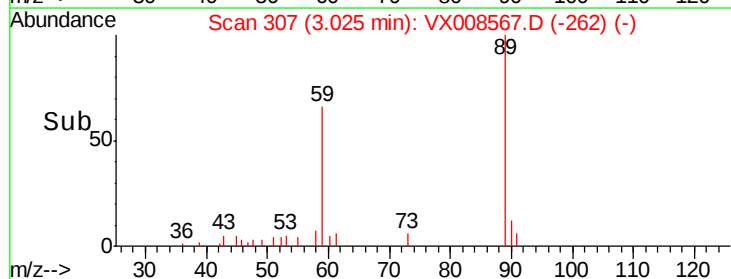
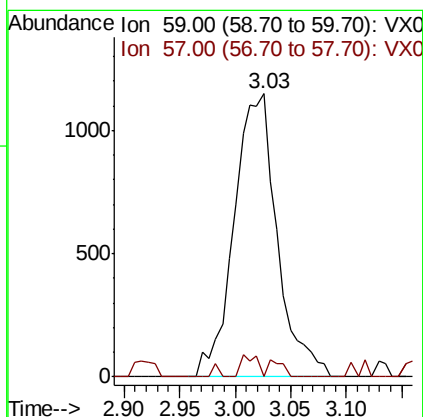
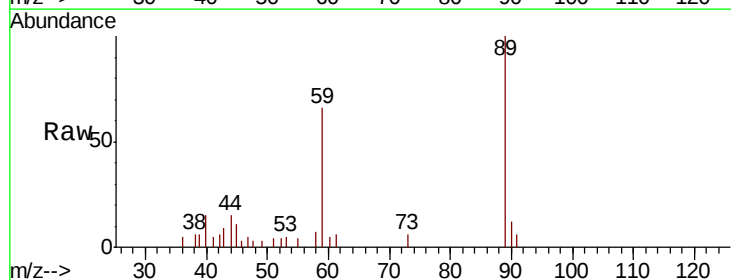
Instrument :
MSVOA_X
ClientSampleId :

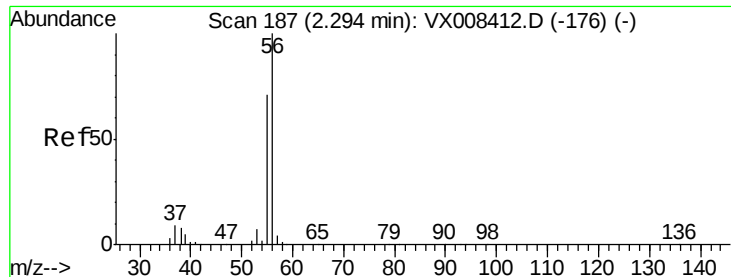
Tot Ion:142 Resp: 101
Ion Ratio Lower Upper
142 100
127 0.0 33.6 50.4#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 3.942 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

Tgt Ion: 59 Resp: 3097
Ion Ratio Lower Upper
59 100
57 2.1 8.2 12.4#





#13

Acrolein

Concen: 0.442 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Instrument :

MSVOA_X

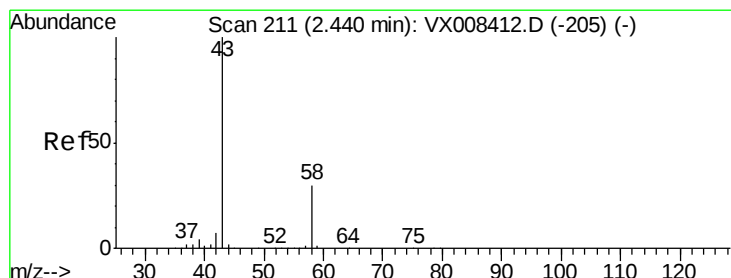
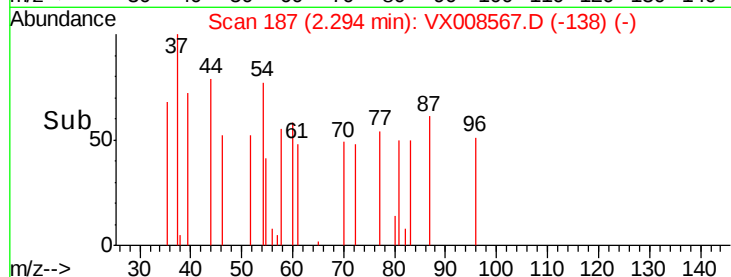
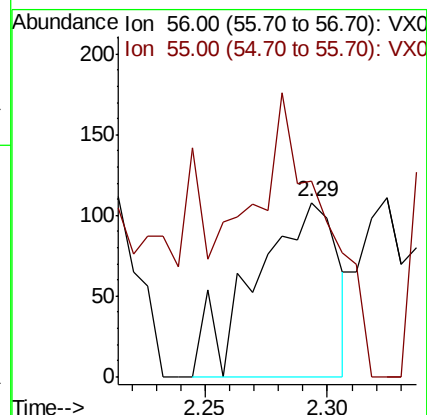
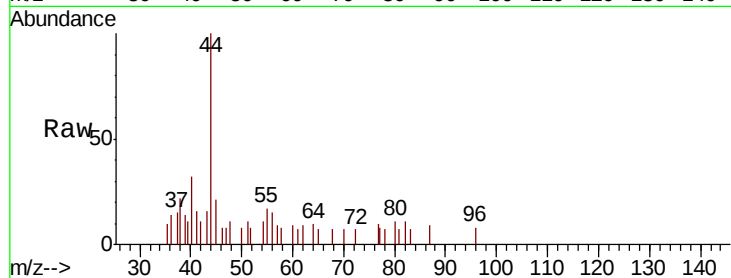
ClientSampled :

Tot Ion: 56 Resp: 252

Ion Ratio Lower Upper

56 100

55 126.2 56.5 84.7#



#16

Acetone

Concen: 1.884 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008567.D

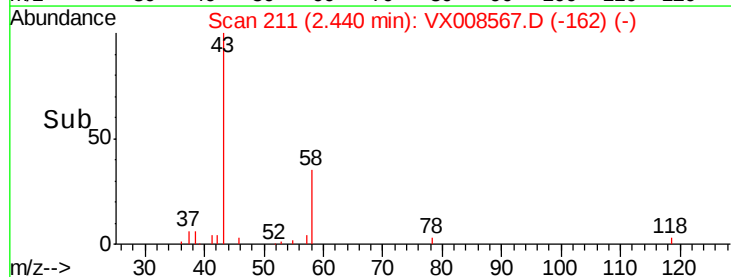
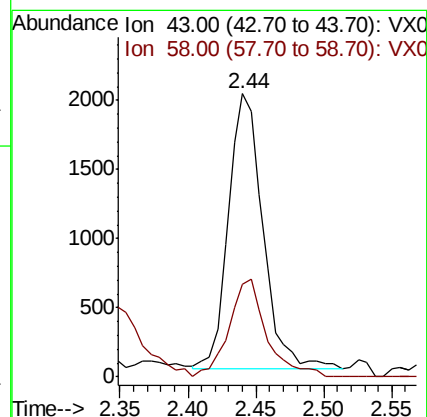
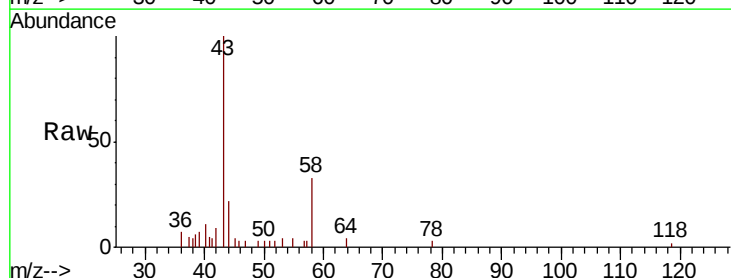
Acq: 01 Apr 2019 14:37

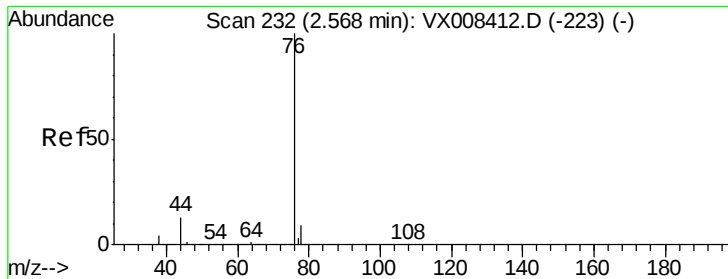
Tgt Ion: 43 Resp: 3492

Ion Ratio Lower Upper

43 100

58 33.8 24.2 36.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Instrument :

MSVOA_X

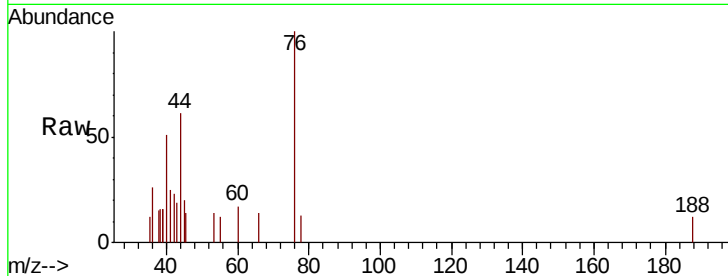
ClientSampleId :

Tot Ion: 76 Resp: 713

Ion Ratio Lower Upper

76 100

78 12.8 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

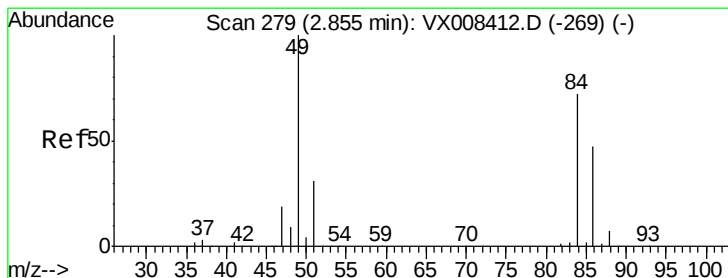
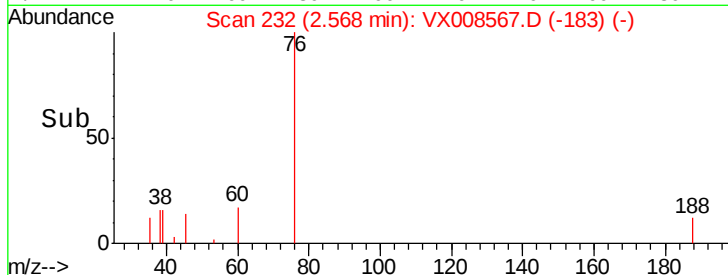
300

200

100

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Tgt Ion: 84 Resp: 275

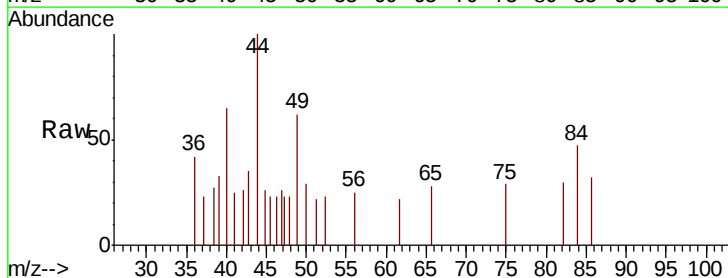
Ion Ratio Lower Upper

84 100

49 132.5 110.6 165.8

51 46.7 33.9 50.9

86 69.2 52.2 78.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

250

200

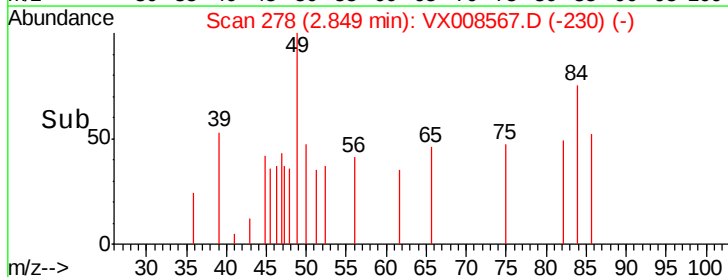
150

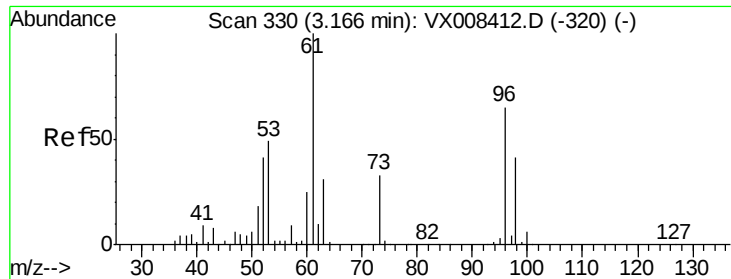
100

50

0

Time--> 2.80 2.85 2.90





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 2.98 min Scan# 300

Delta R.T. -0.18 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

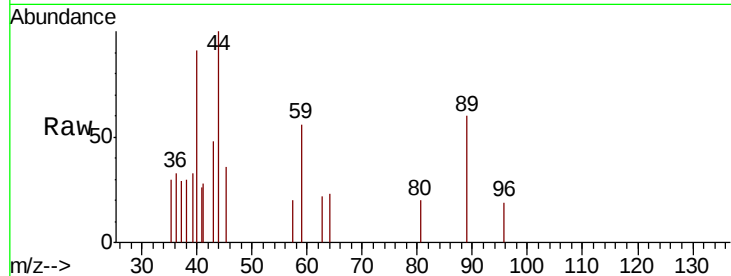
Tot Ion: 96 Resp: 18

Ion Ratio Lower Upper

96 100

61 0.0 122.6 184.0#

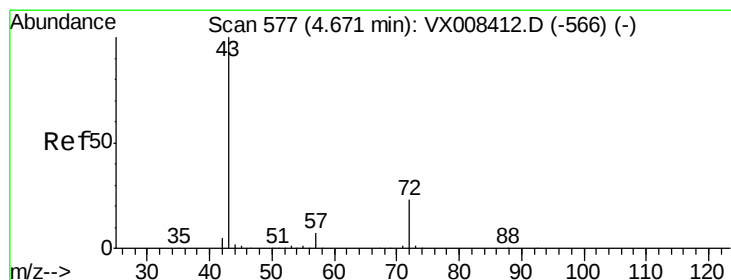
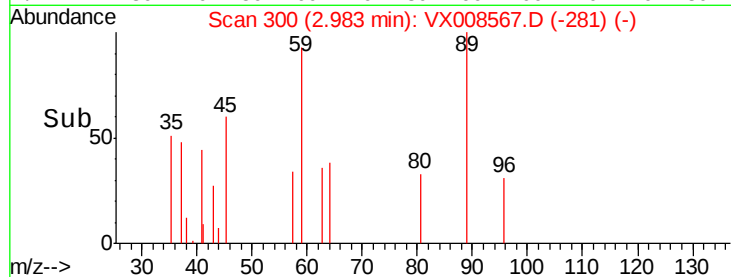
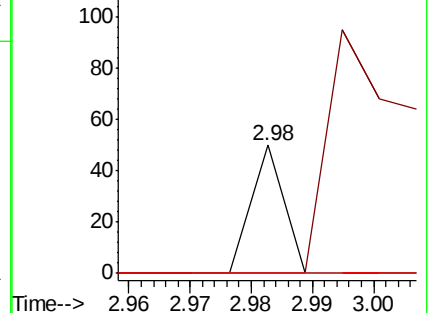
98 0.0 50.9 76.3#



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



#25

2-Butanone

Concen: 0.387 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX008567.D

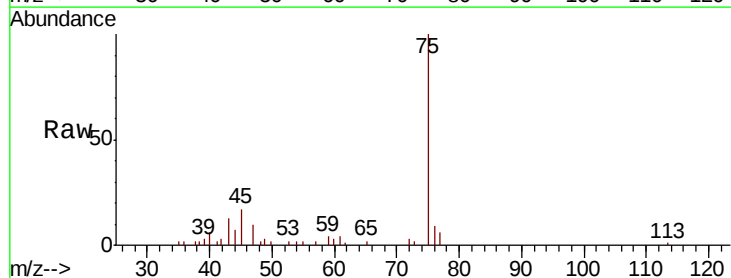
Acq: 01 Apr 2019 14:37

Tgt Ion: 43 Resp: 1151

Ion Ratio Lower Upper

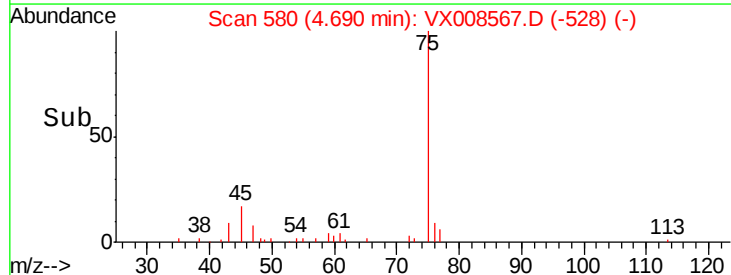
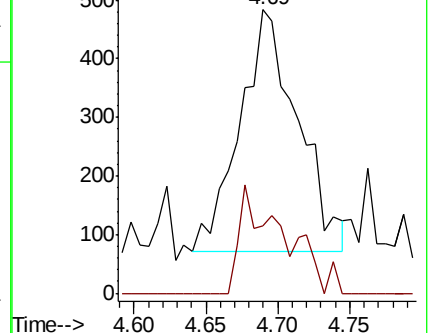
43 100

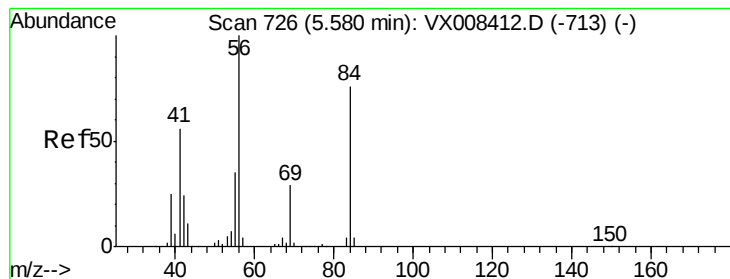
72 27.7 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.021 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Instrument :

MSVOA_X

ClientSampled :

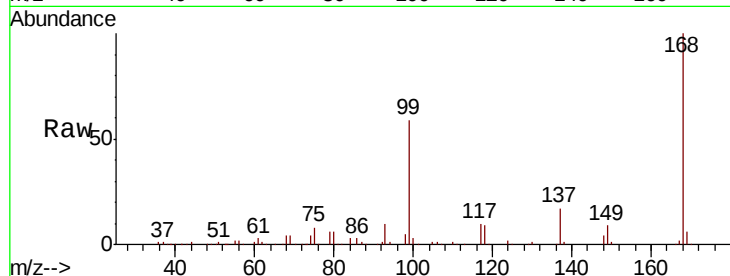
Tot Ion: 56 Resp: 5805

Ion Ratio Lower Upper

56 100

69 173.4 23.2 34.8#

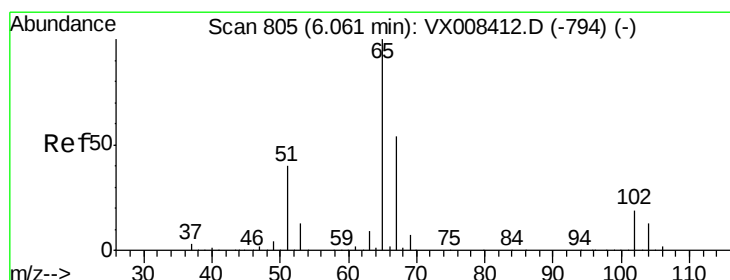
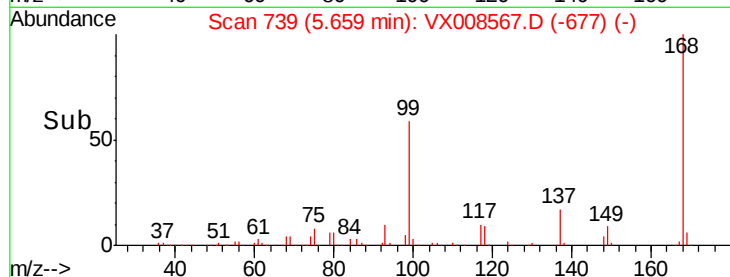
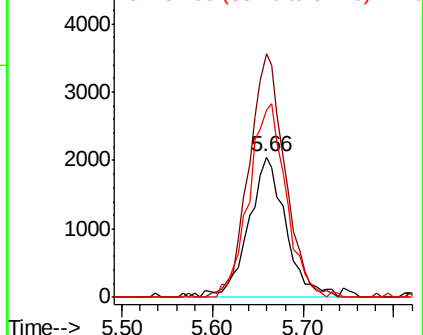
84 133.7 60.7 91.1#



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: 45.860 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008567.D

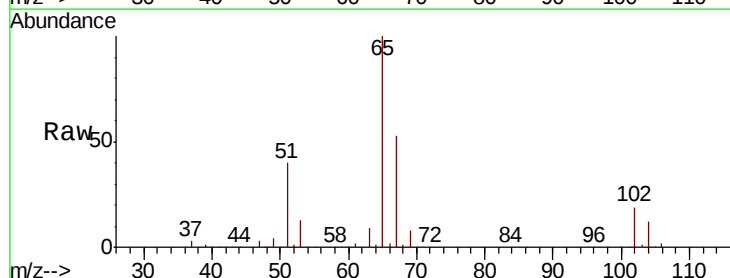
Acq: 01 Apr 2019 14:37

Tgt Ion: 65 Resp: 162635

Ion Ratio Lower Upper

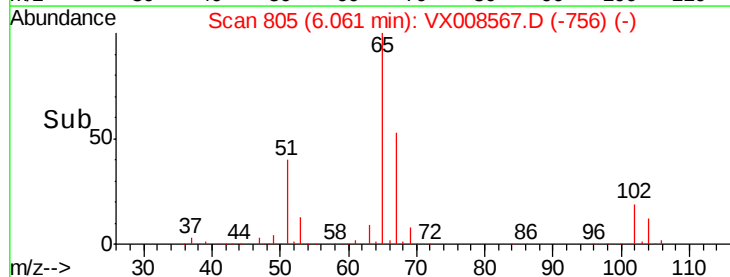
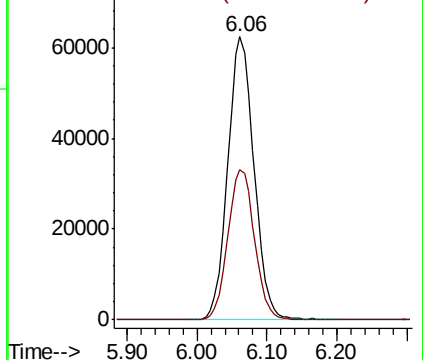
65 100

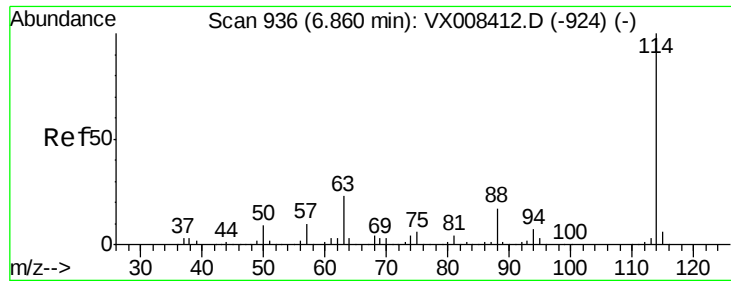
67 54.2 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

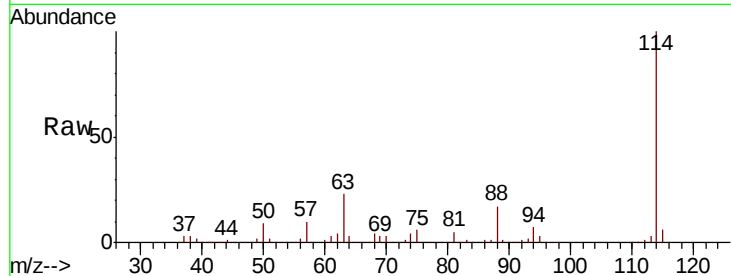




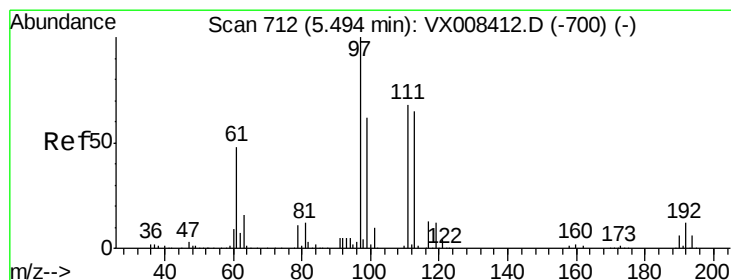
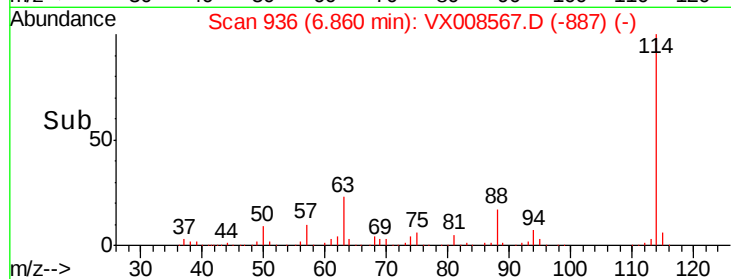
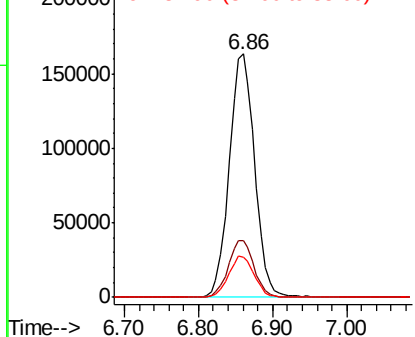
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 390114
Ion Ratio Lower Upper
114 100
63 23.5 0.0 46.4
88 16.6 0.0 33.2

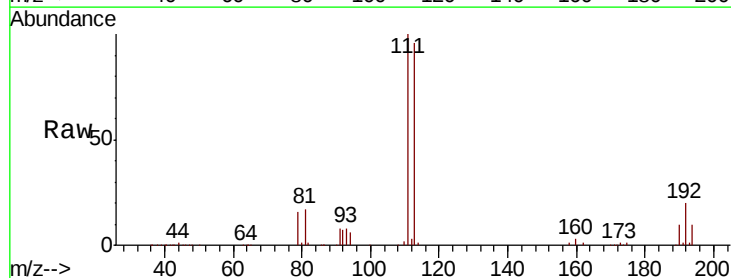


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

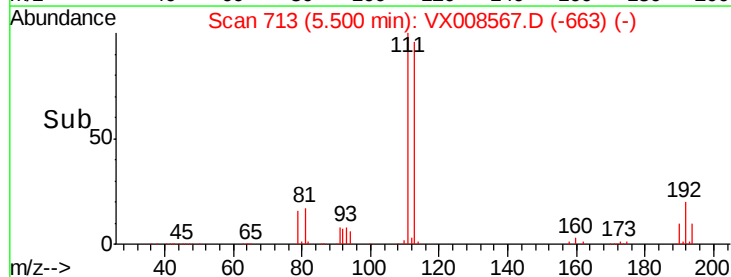
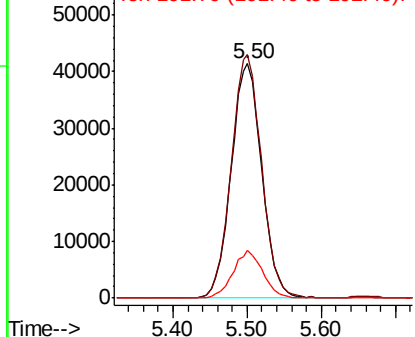


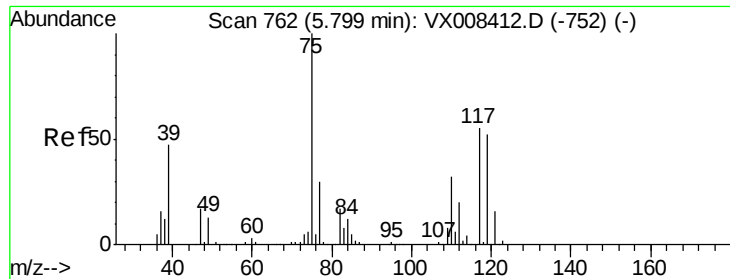
#35
Dibromofluoromethane
Concen: 46.861 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

Tgt Ion:113 Resp: 119201
Ion Ratio Lower Upper
113 100
111 102.9 83.0 124.4
192 19.7 15.6 23.4



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: 4.846 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

Instrument :

MSVOA_X

ClientSampleId :

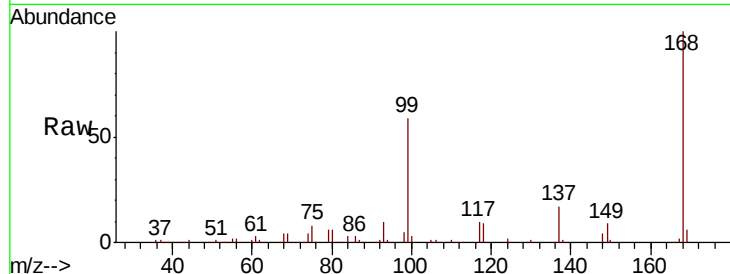
Tot Ion: 75 Resp: 20157

Ion Ratio Lower Upper

75 100

110 8.0 16.6 49.7#

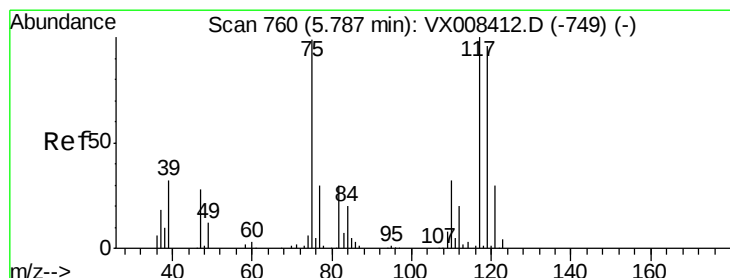
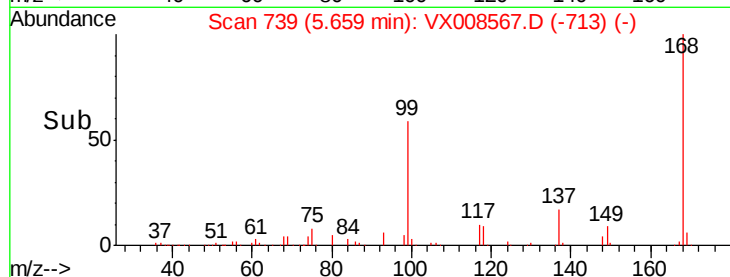
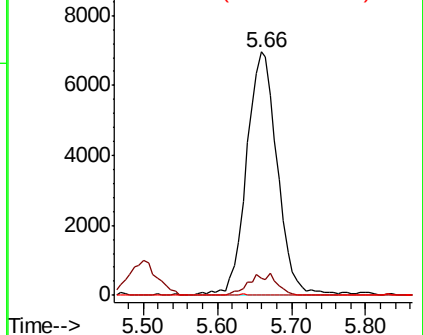
77 0.0 24.2 36.2#



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: 6.552 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008567.D

Acq: 01 Apr 2019 14:37

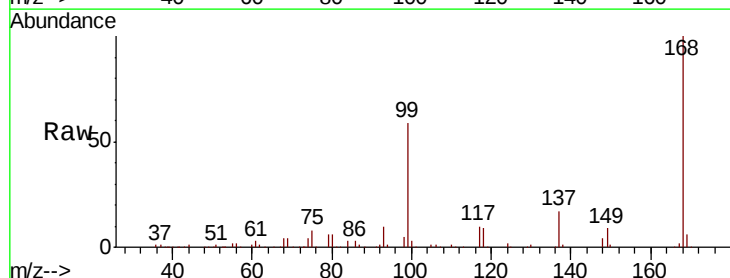
Tgt Ion: 117 Resp: 22742

Ion Ratio Lower Upper

117 100

119 3.8 76.7 115.1#

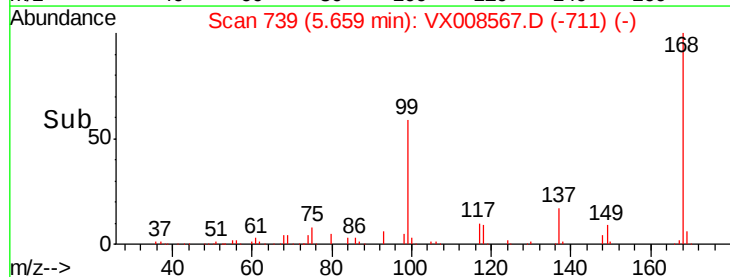
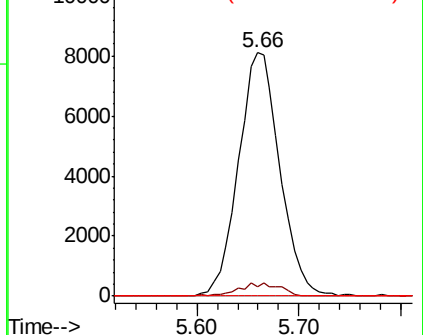
121 0.0 24.3 36.5#

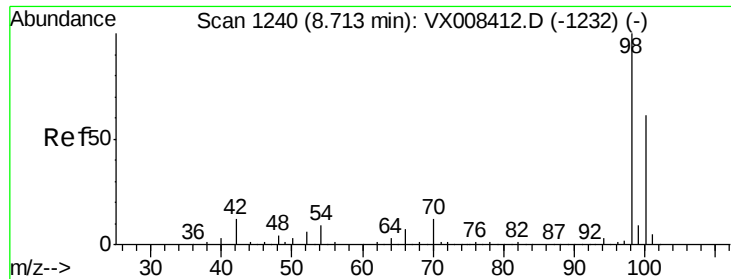


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

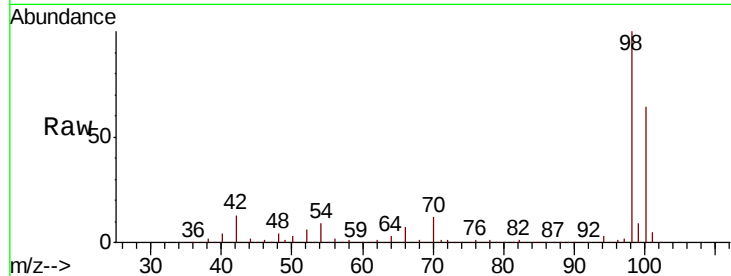




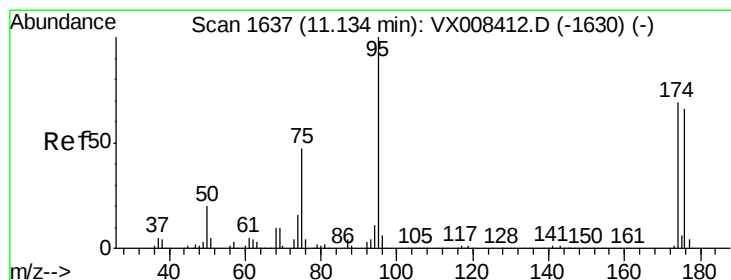
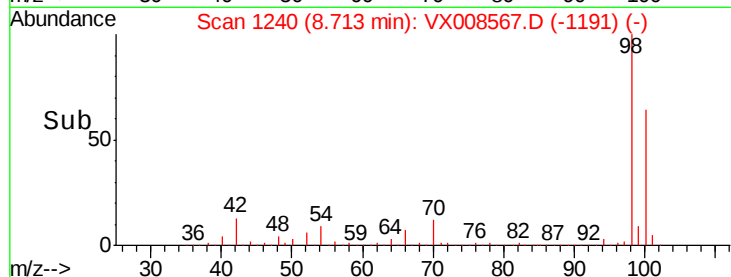
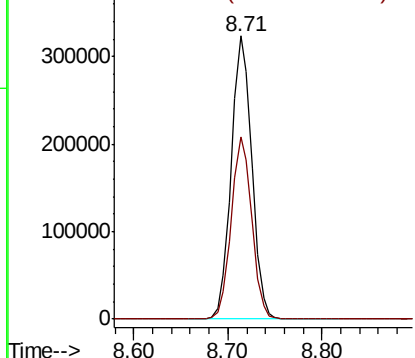
#50
Toluene-d8
Concen: 48.197 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 490230
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7

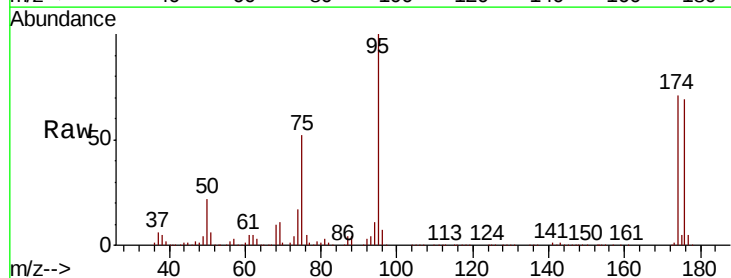


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

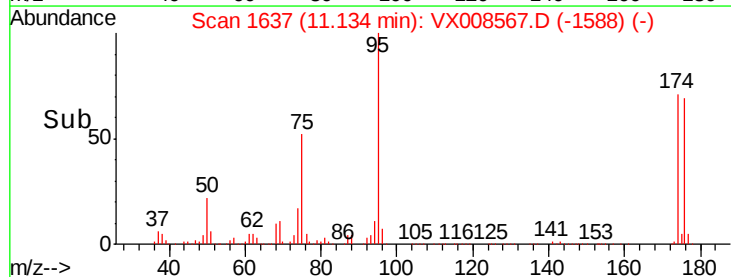
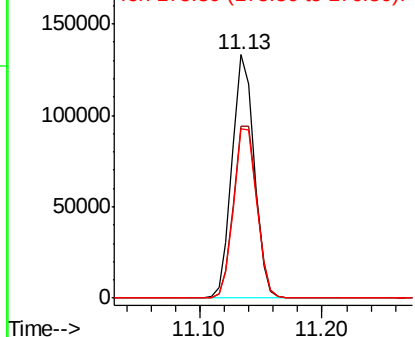


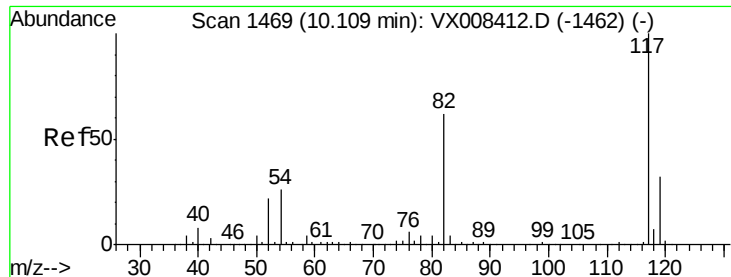
#62
4-Bromofluorobenzene
Concen: 44.084 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

Tgt Ion: 95 Resp: 166158
Ion Ratio Lower Upper
95 100
174 74.6 0.0 147.2
176 72.7 0.0 142.4



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

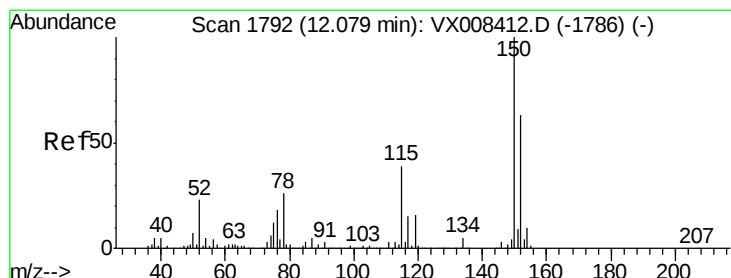
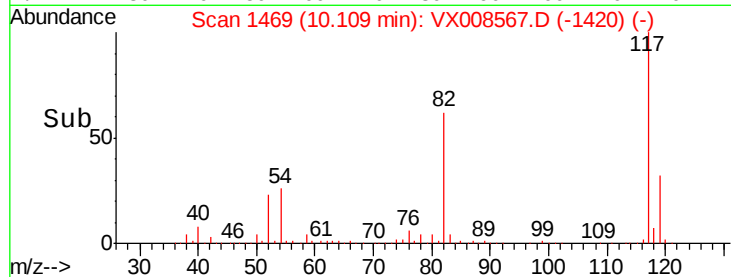
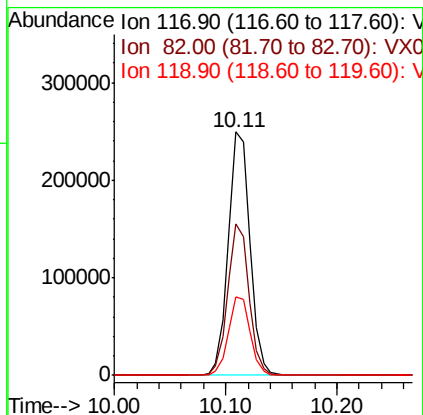
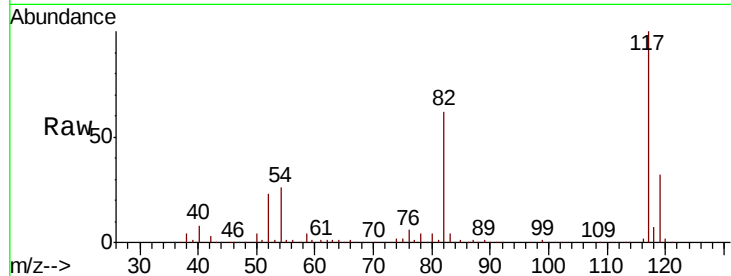




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

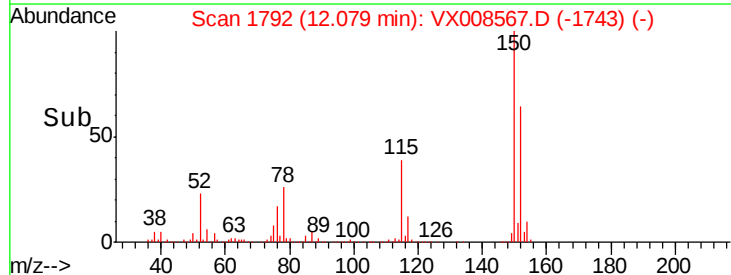
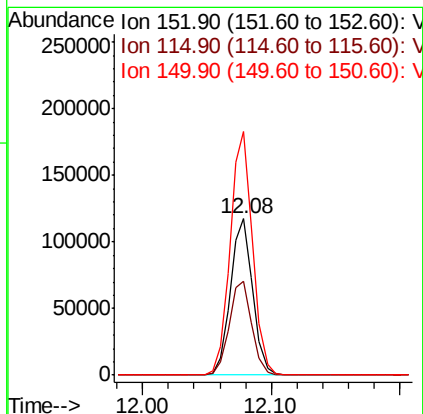
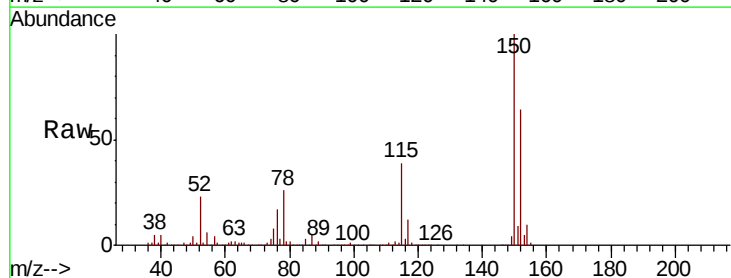
Instrument :
MSVOA_X
ClientSampleId :

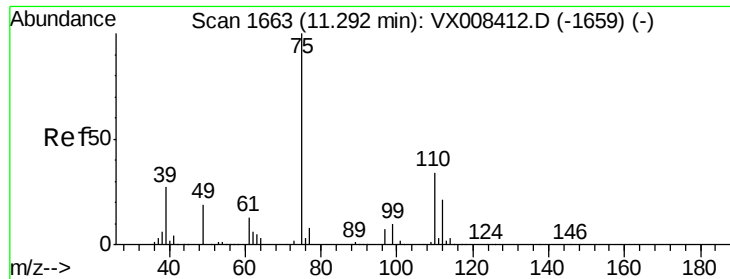
Tot Ion:117 Resp: 336960
Ion Ratio Lower Upper
117 100
82 62.4 49.4 74.2
119 32.1 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008567.D
Acq: 01 Apr 2019 14:37

Tgt Ion:152 Resp: 141619
Ion Ratio Lower Upper
152 100
115 61.3 43.5 130.5
150 156.8 0.0 348.8

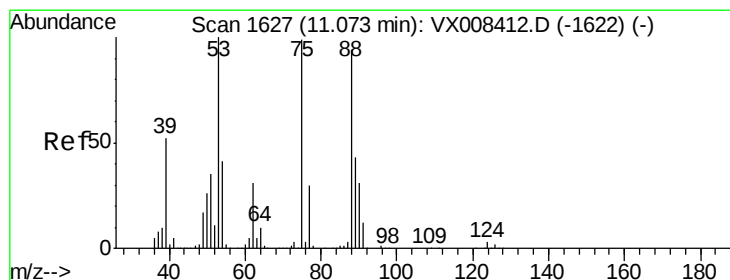
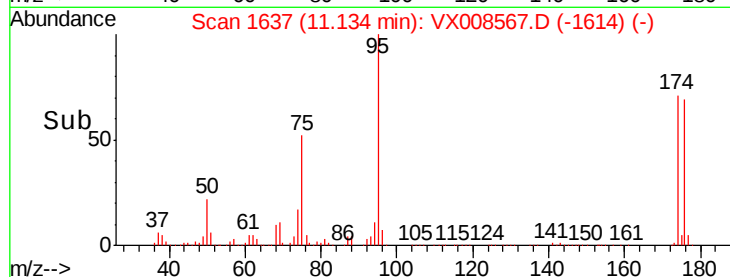
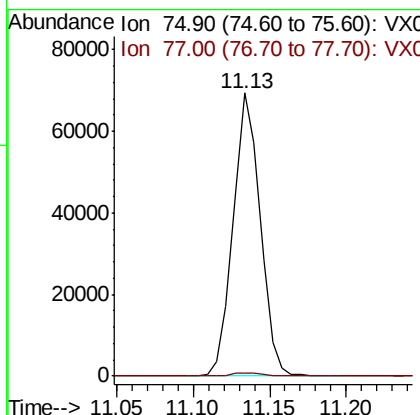
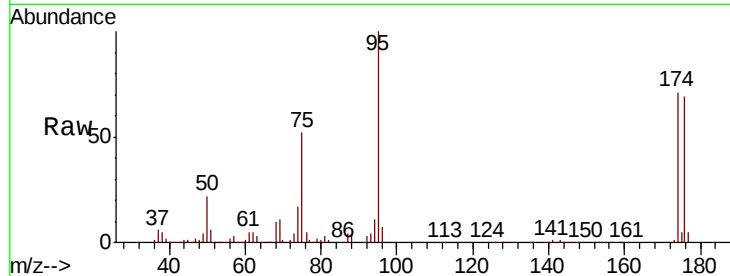




#76
 1,2,3-Trichloropropane
 Concen: 20.272 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008567.D
 Acq: 01 Apr 2019 14:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 85348
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.9 65.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.927 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008567.D
 Acq: 01 Apr 2019 14:37

Tgt Ion: 75 Resp: 85348
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.1 123.1#
 89 0.0 34.6 52.0#

