

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040519\
 Data File : VX008704.D
 Acq On : 05 Apr 2019 23:59
 Operator : JC/SP
 Sample : K2296-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0698

Quant Time: Apr 06 01:30:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	205195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	345364	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	300745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	129692	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	142448	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
35) Dibromofluoromethane	5.50	113	104366	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
50) Toluene-d8	8.71	98	434595	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.13	95	149476	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	

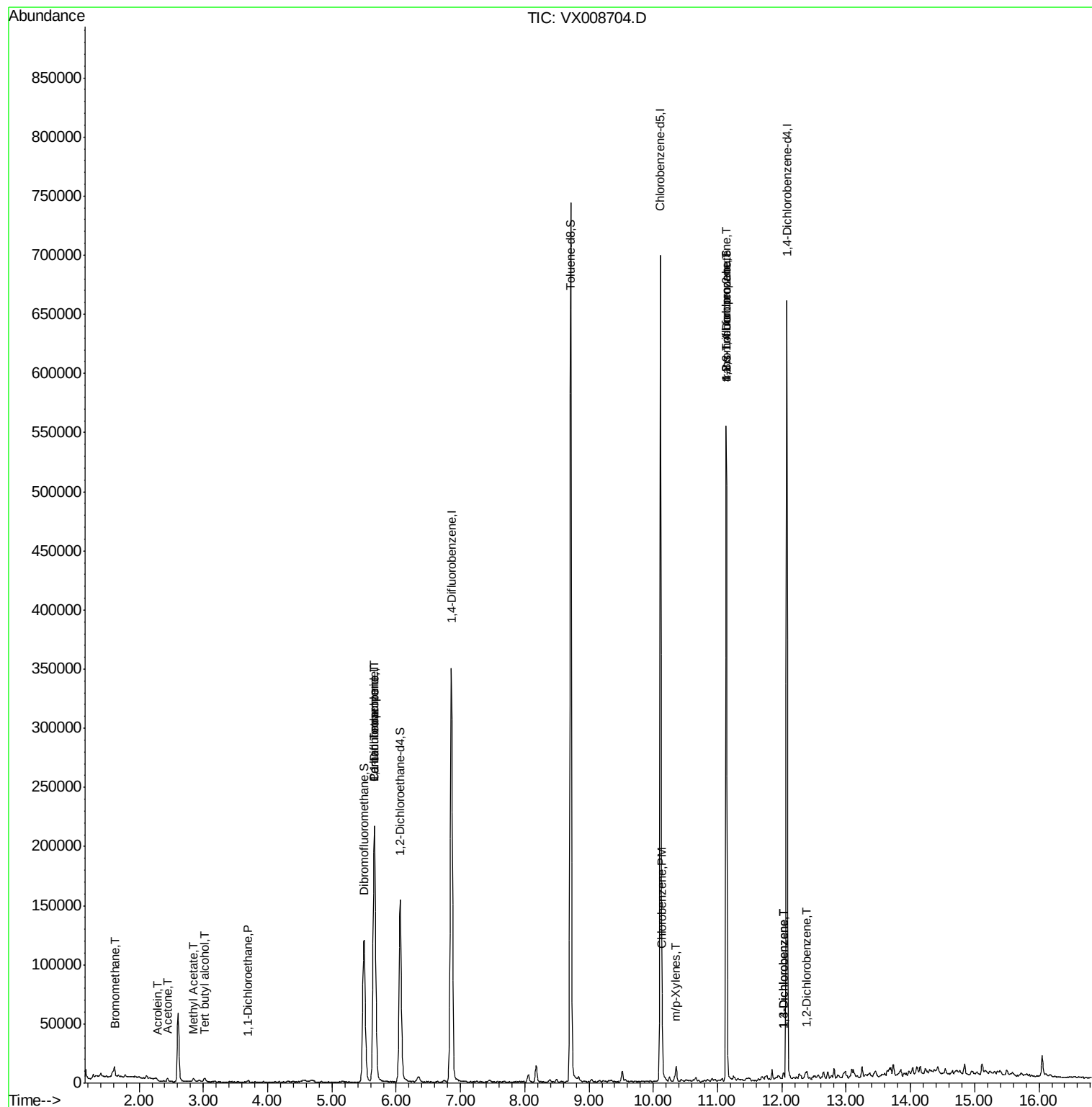
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	422	Below Cal		92
5) Bromomethane	1.64	94	412	2.137 ug/l		87
6) Chloroethane	1.71	64	189	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	2175	3.104 ug/l	#	75
13) Acrolein	2.29	56	114	0.328 ug/l	#	13
16) Acetone	2.44	43	3034	1.760 ug/l		100
17) Carbon Disulfide	2.57	76	518	Below Cal	#	68
18) Methyl Acetate	2.84	43	2052	0.491 ug/l	#	56
24) 1,1-Dichloroethane	3.69	63	1209	0.233 ug/l	#	85
28) Bromochloromethane	5.08	49	44	Below Cal	#	22
36) 1,1-Dichloropropene	5.66	75	16513	4.374 ug/l	#	51
38) Carbon Tetrachloride	5.66	117	20106	6.435 ug/l	#	18
65) Chlorobenzene	10.14	112	15771	2.366 ug/l		99
68) m/p-Xylenes	10.36	106	2343	0.524 ug/l		98
76) 1,2,3-Trichloropropane	11.13	75	75367	21.154 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.13	75	75367	58.312 ug/l	#	9
87) 1,3-Dichlorobenzene	12.02	146	1026	0.222 ug/l		90
88) 1,4-Dichlorobenzene	12.02	146	1026	0.219 ug/l		90
91) 1,2-Dichlorobenzene	12.39	146	1408	0.307 ug/l		88

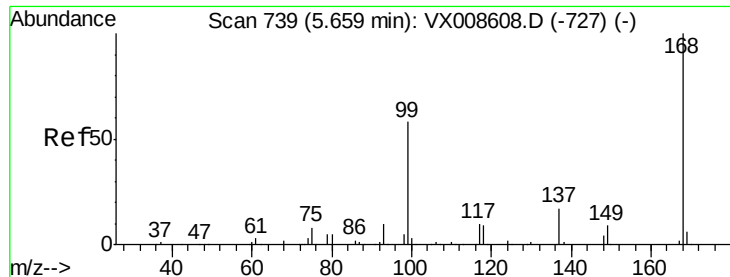
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

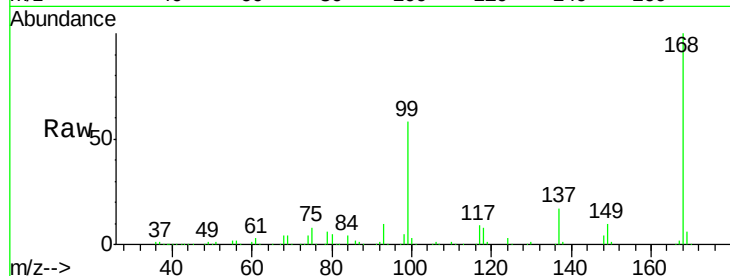
S8-0698

Tot Ion:168 Resp: 205195

Ion Ratio Lower Upper

168 100

99 57.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

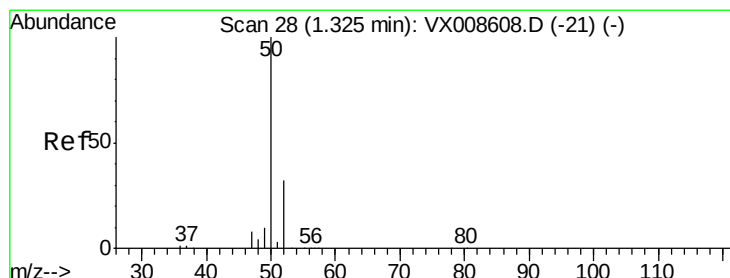
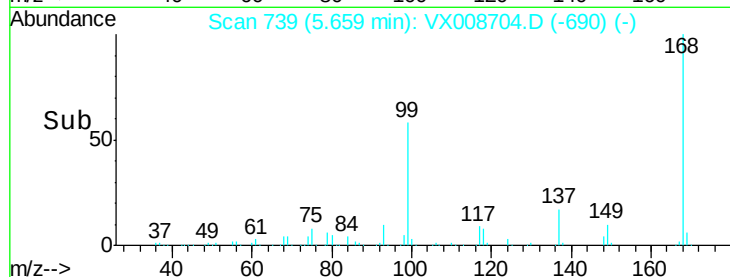
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008704.D

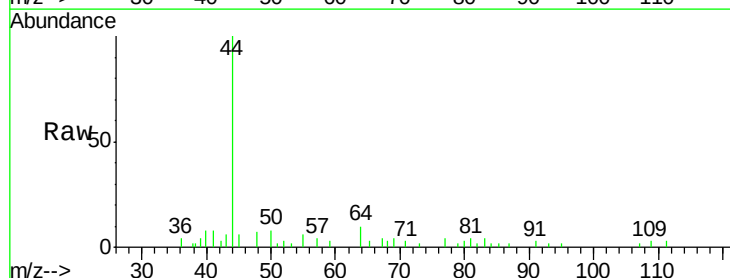
Acq: 05 Apr 2019 23:59

Tgt Ion: 50 Resp: 422

Ion Ratio Lower Upper

50 100

52 36.6 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

200

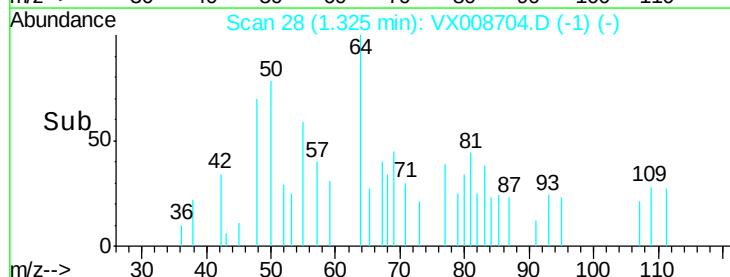
150

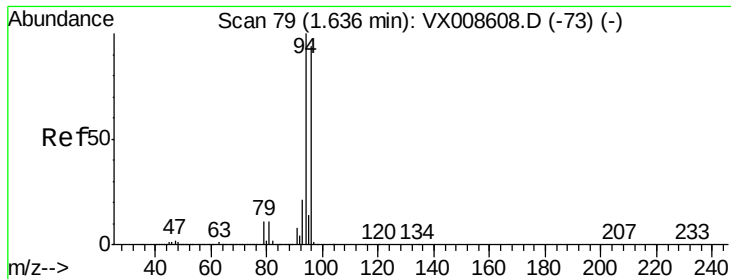
100

50

0

Time-->





#5

Bromomethane

Concen: 2.137 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampled :

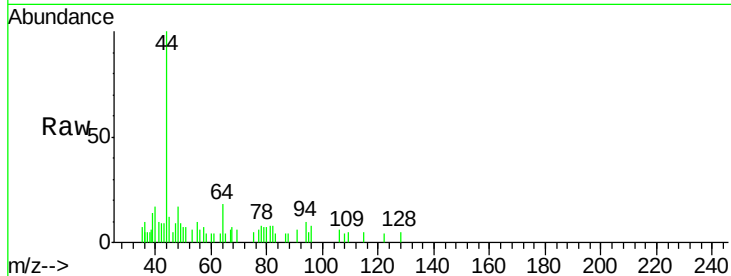
S8-0698

Tot Ion: 94 Resp: 412

Ion Ratio Lower Upper

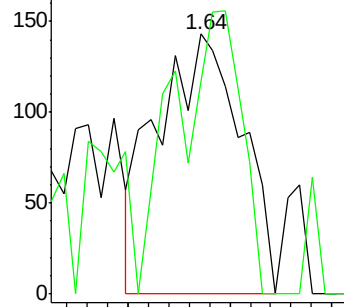
94 100

96 81.8 75.2 112.8

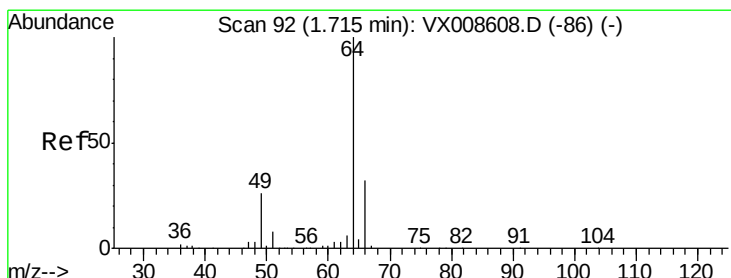
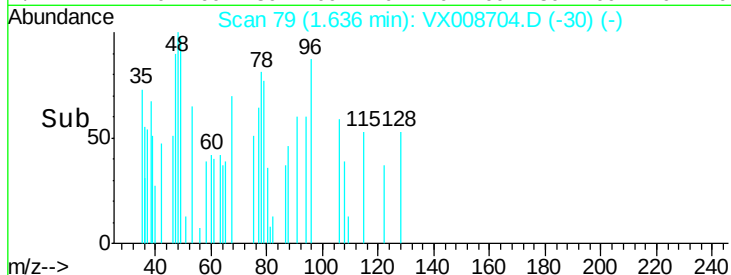


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008704.D

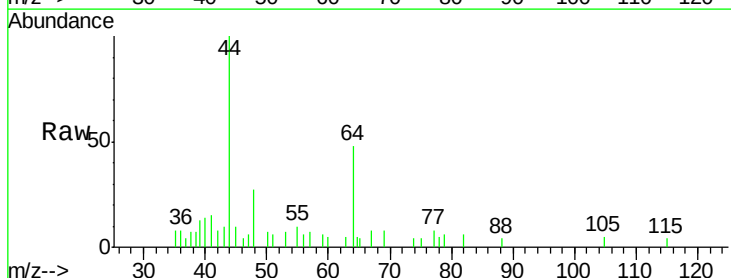
Acq: 05 Apr 2019 23:59

Tgt Ion: 64 Resp: 189

Ion Ratio Lower Upper

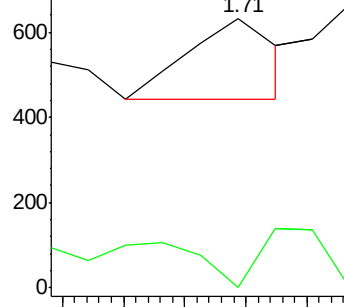
64 100

66 0.0 25.4 38.0#

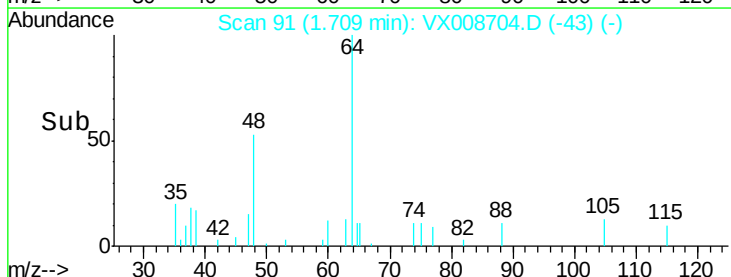


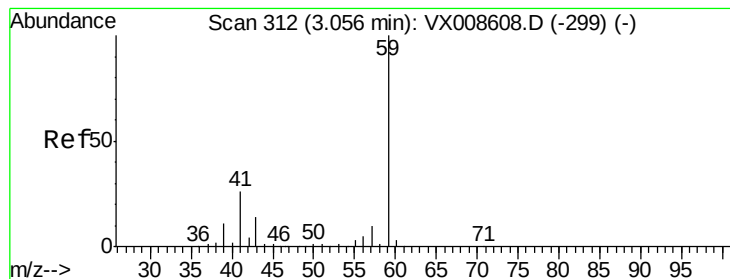
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#11

Tert butyl alcohol

Concen: 3.104 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampled :

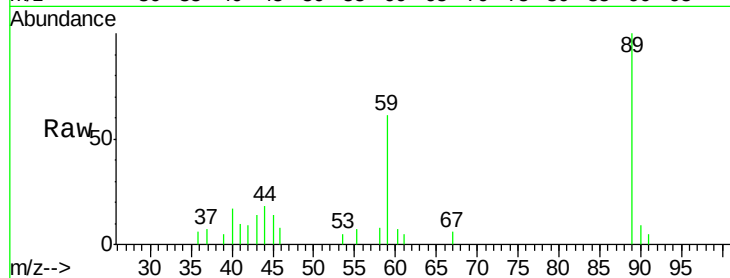
S8-0698

Tot Ion: 59 Resp: 2175

Ion Ratio Lower Upper

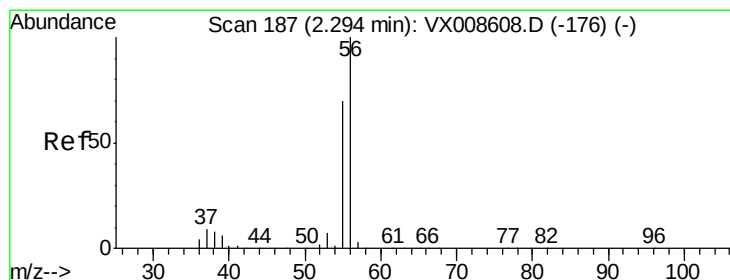
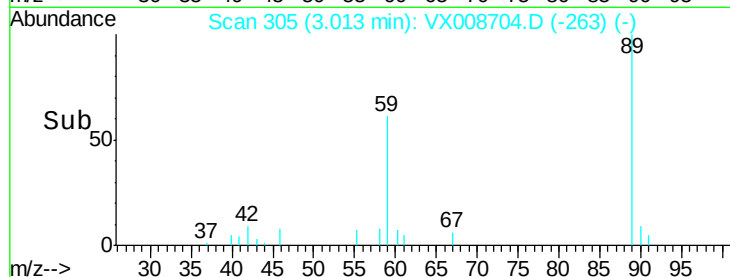
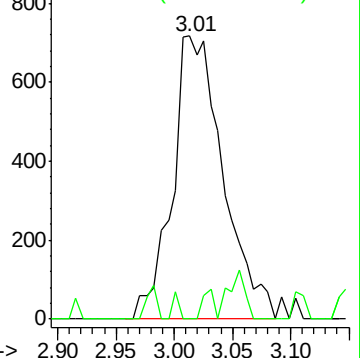
59 100

57 1.1 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.328 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008704.D

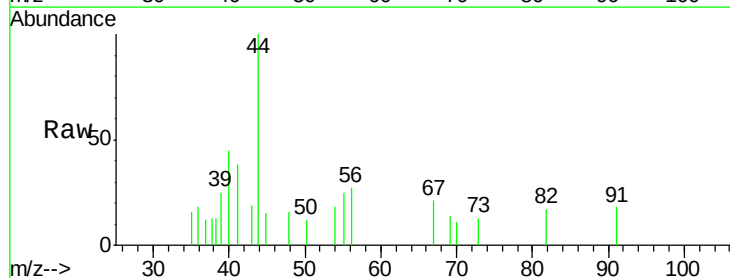
Acq: 05 Apr 2019 23:59

Tgt Ion: 56 Resp: 114

Ion Ratio Lower Upper

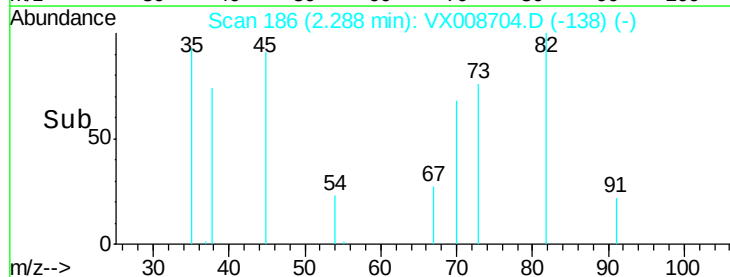
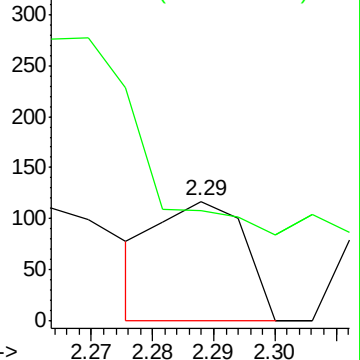
56 100

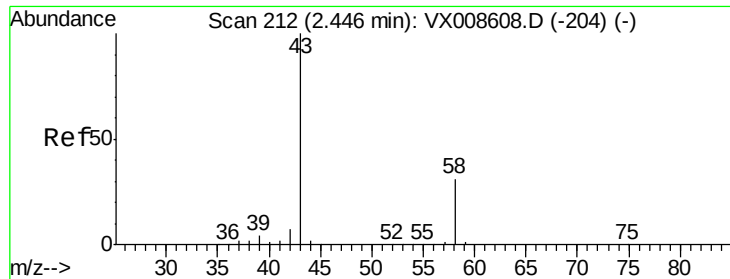
55 0.0 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.760 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

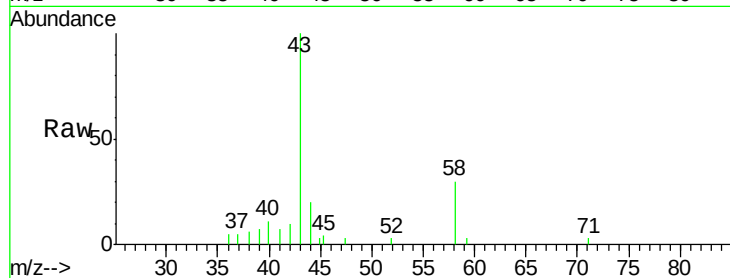
S8-0698

Tot Ion: 43 Resp: 3034

Ion Ratio Lower Upper

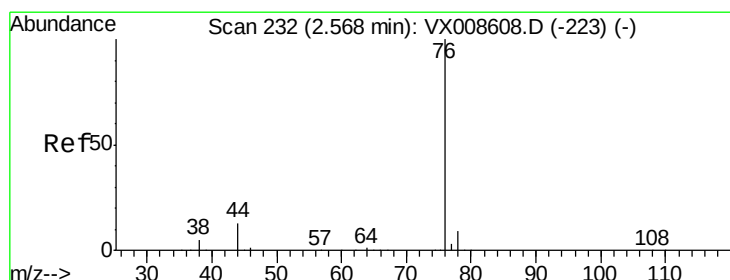
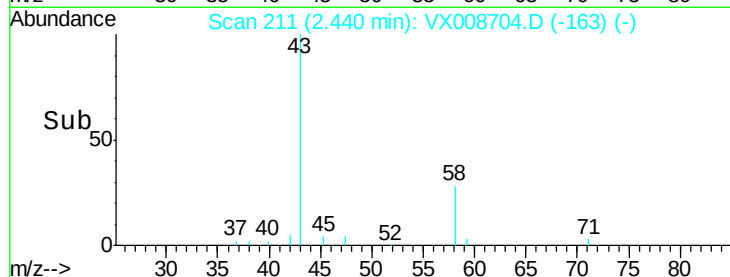
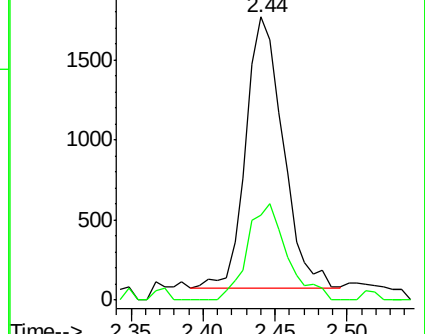
43 100

58 31.2 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008704.D

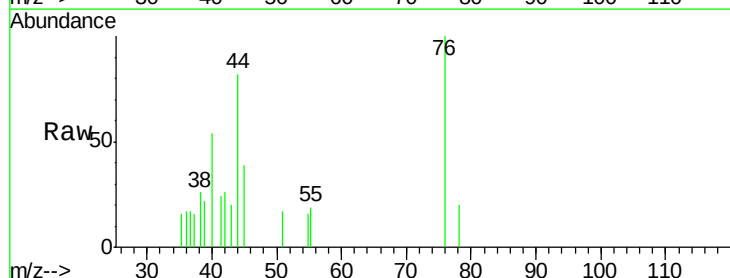
Acq: 05 Apr 2019 23:59

Tgt Ion: 76 Resp: 518

Ion Ratio Lower Upper

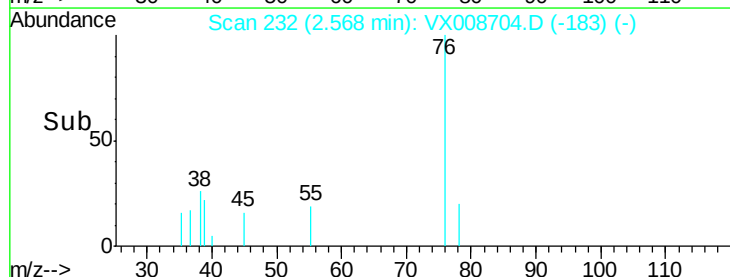
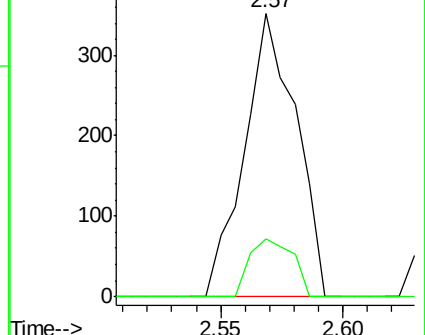
76 100

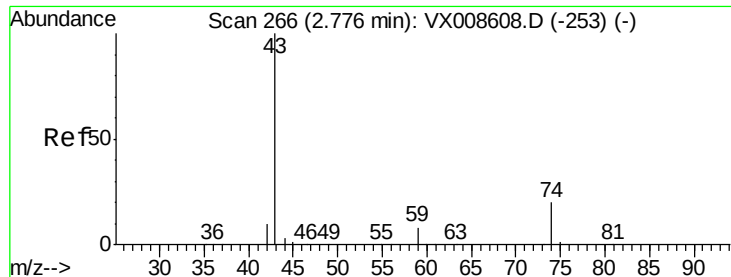
78 20.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

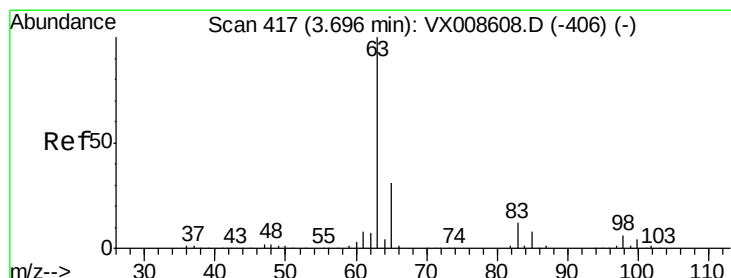
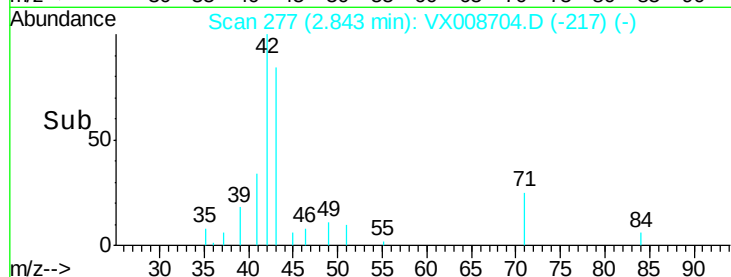
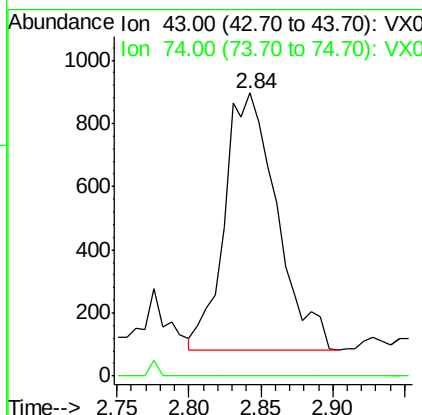
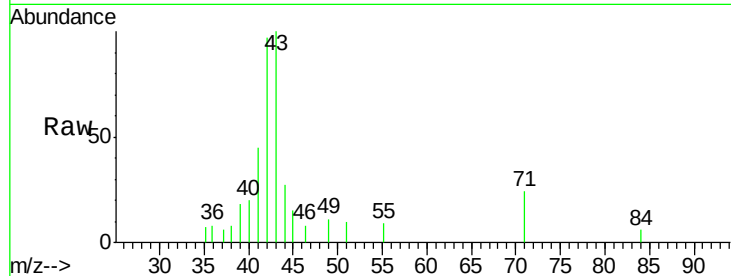




#18
Methvl Acetate
Concen: 0.491 ug/l
RT: 2.84 min Scan# 277
Delta R.T. 0.07 min
Lab File: VX008704.D
Acq: 05 Apr 2019 23:59

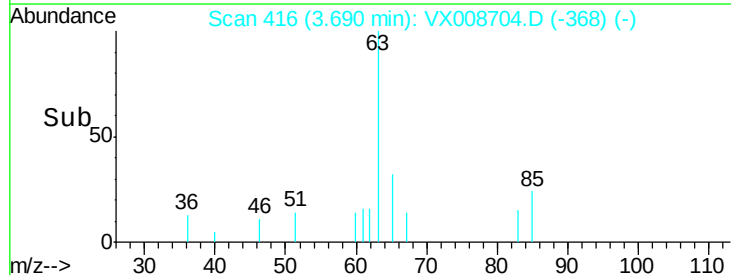
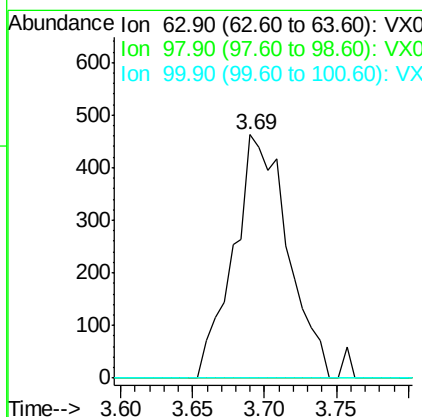
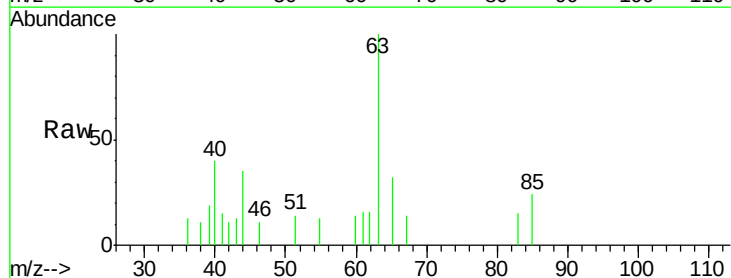
Instrument :
MSVOA_X
ClientSampled :
S8-0698

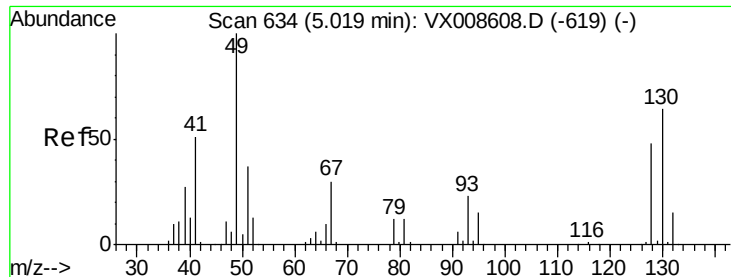
Tot Ion: 43 Resp: 2052
Ion Ratio Lower Upper
43 100
74 0.0 16.5 24.7#



#24
1,1-Dichloroethane
Concen: 0.233 ug/l
RT: 3.69 min Scan# 416
Delta R.T. -0.01 min
Lab File: VX008704.D
Acq: 05 Apr 2019 23:59

Tgt Ion: 63 Resp: 1209
Ion Ratio Lower Upper
63 100
98 0.0 2.8 8.4#
100 0.0 1.8 5.5#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.08 min Scan# 644

Delta R.T. 0.06 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

S8-0698

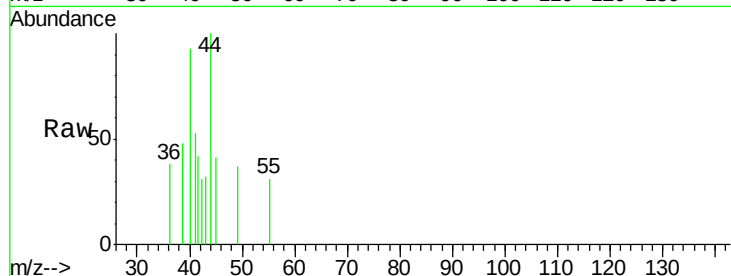
Tot Ion: 49 Resp: 44

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

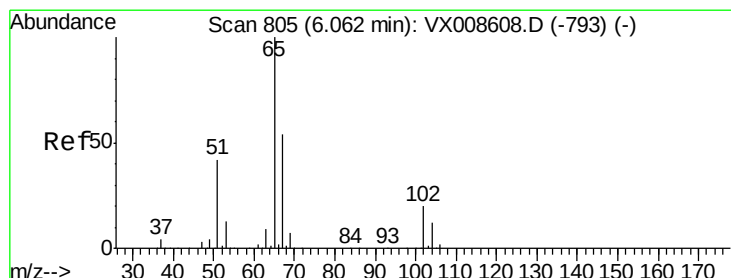
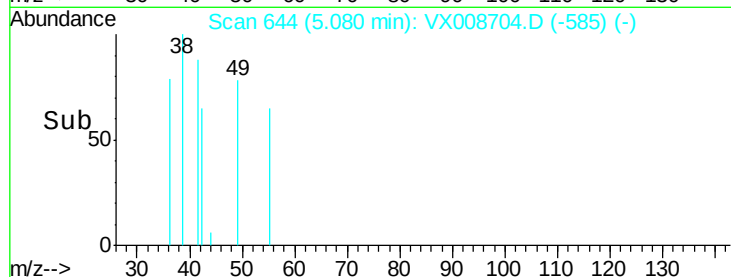
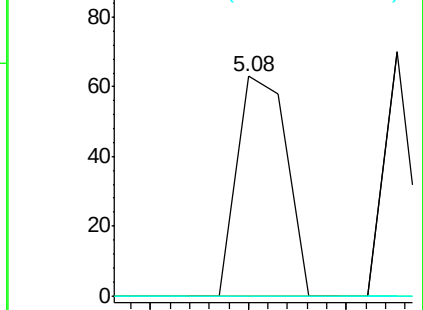
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 47.595 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008704.D

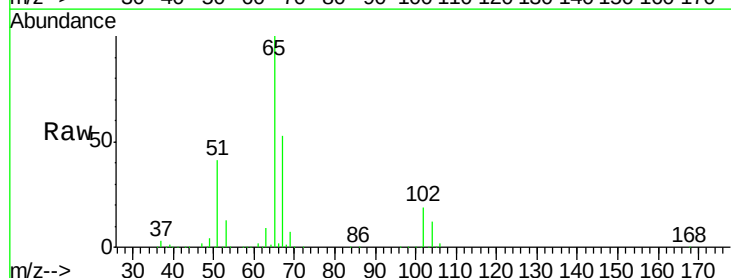
Acq: 05 Apr 2019 23:59

Tgt Ion: 65 Resp: 142448

Ion Ratio Lower Upper

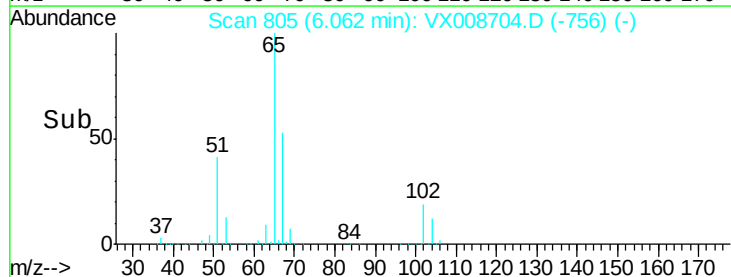
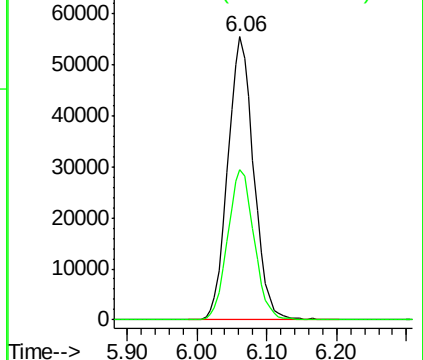
65 100

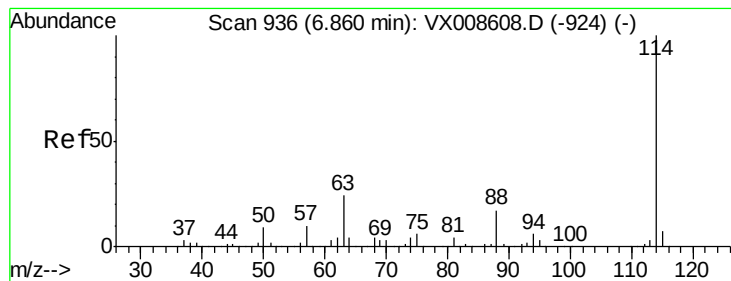
67 54.0 0.0 107.2



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: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

S8-0698

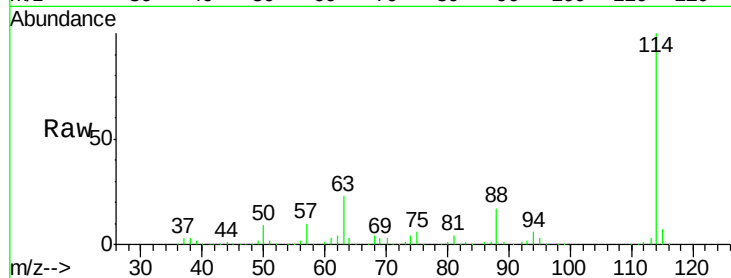
Tot Ion:114 Resp: 345364

Ion Ratio Lower Upper

114 100

63 23.1 0.0 47.2

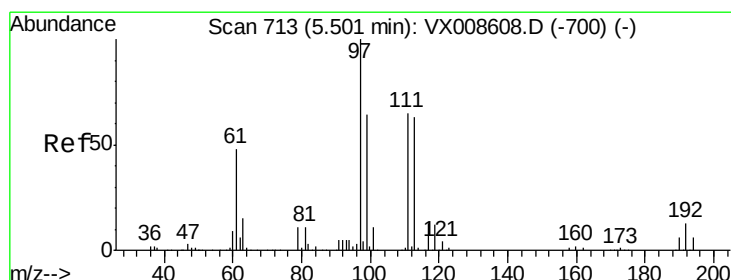
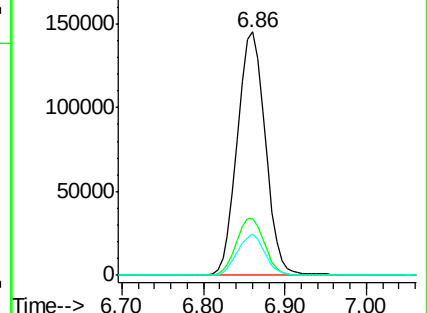
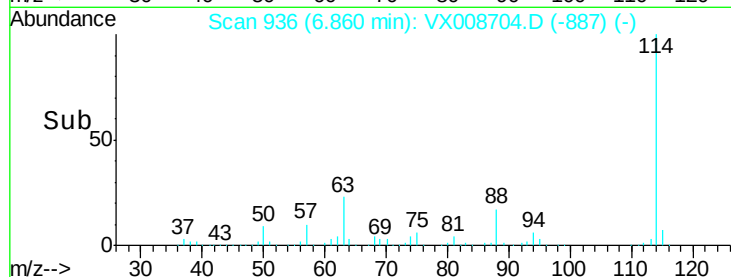
88 16.9 0.0 34.0



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: 47.264 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

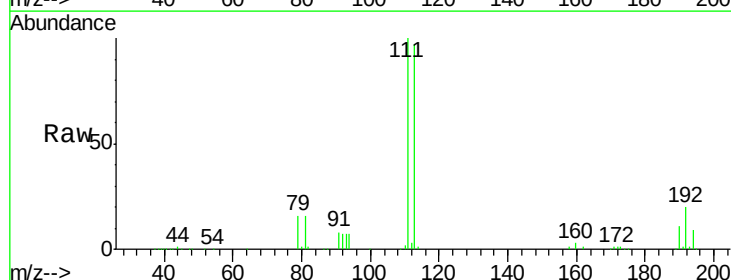
Tgt Ion:113 Resp: 104366

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

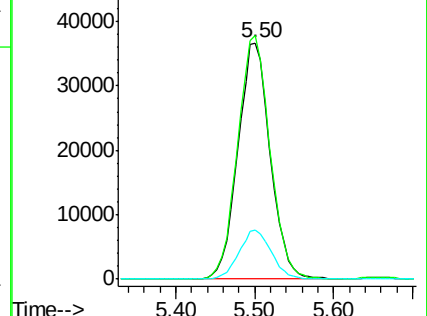
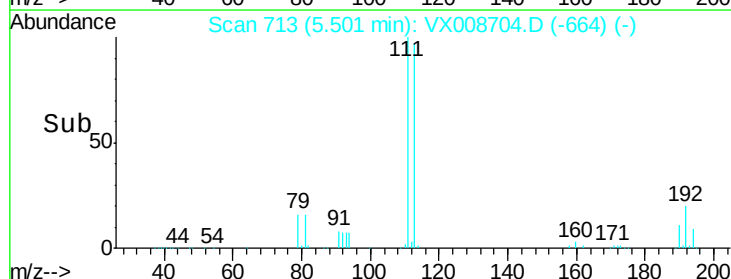
192 20.9 16.1 24.1

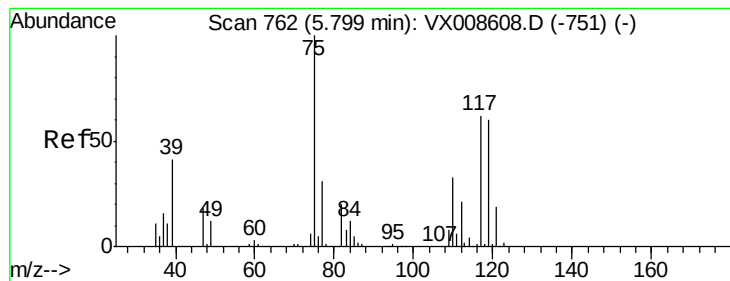


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.374 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

S8-0698

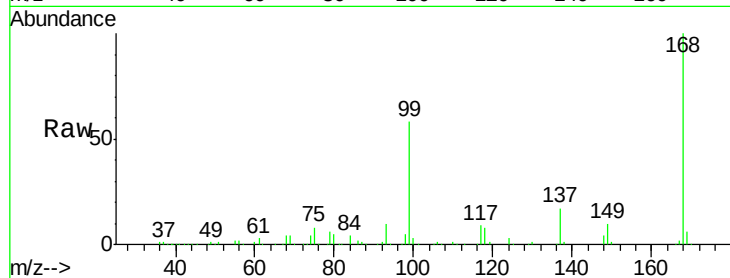
Tot Ion: 75 Resp: 16513

Ion Ratio Lower Upper

75 100

110 9.0 16.4 49.2#

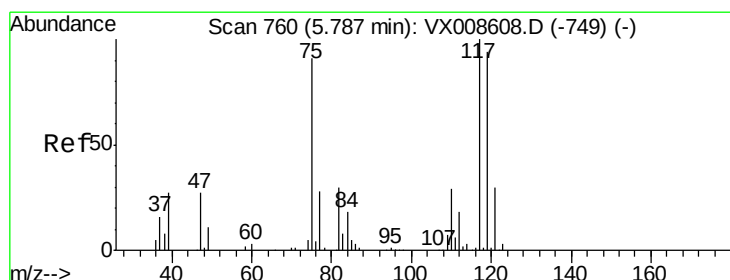
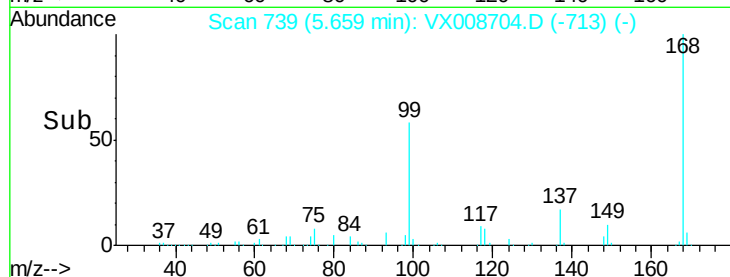
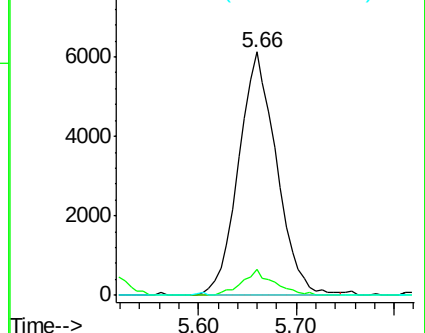
77 0.0 24.7 37.1#



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: 6.435 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

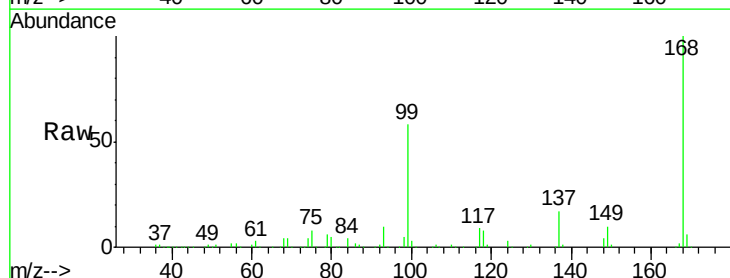
Tgt Ion: 117 Resp: 20106

Ion Ratio Lower Upper

117 100

119 6.1 75.0 112.6#

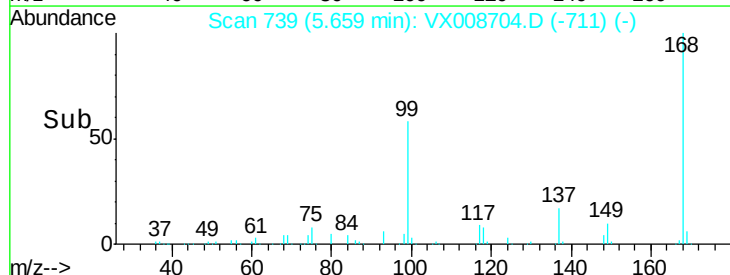
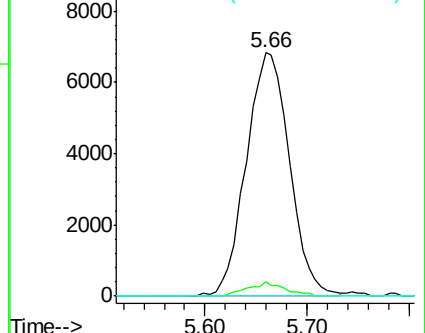
121 0.0 24.3 36.5#

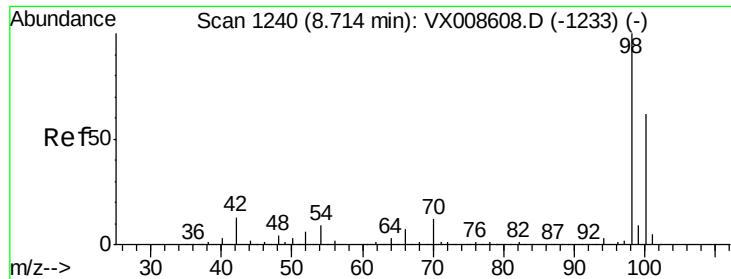


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.430 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

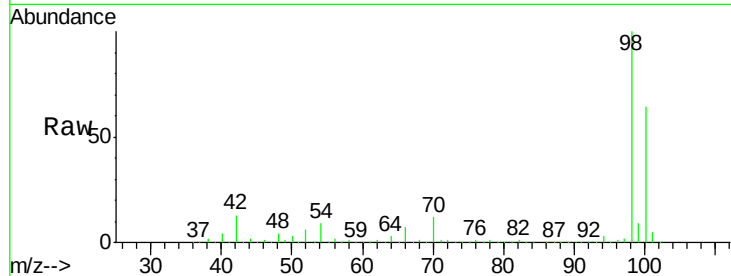
S8-0698

Tot Ion: 98 Resp: 434595

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

300000

250000

200000

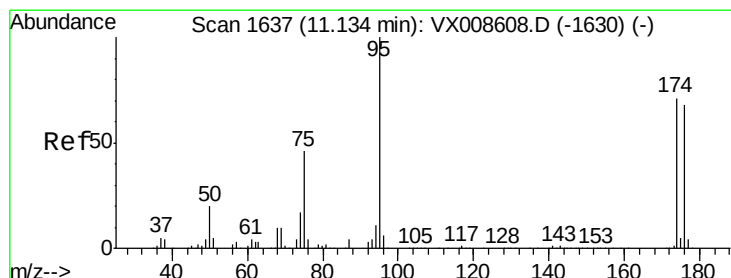
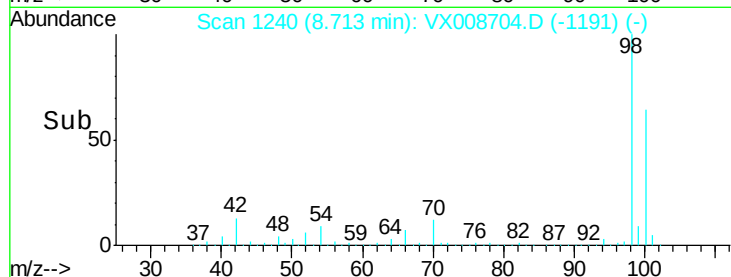
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 47.942 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

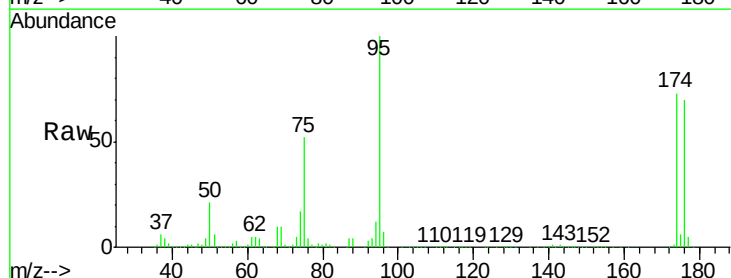
Tgt Ion: 95 Resp: 149476

Ion Ratio Lower Upper

95 100

174 76.4 0.0 151.8

176 74.5 0.0 145.8



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

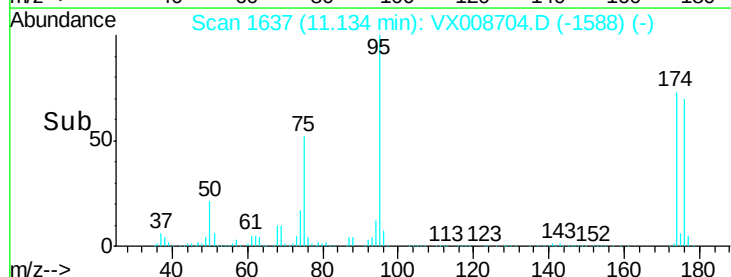
150000

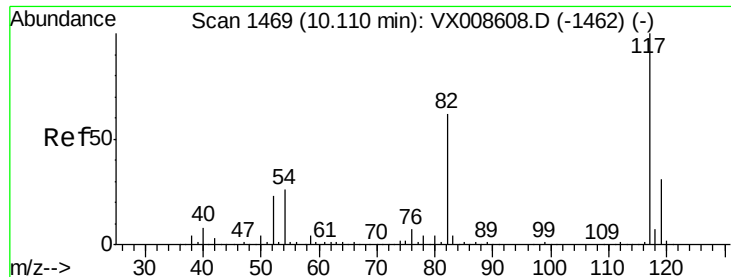
100000

50000

0

Time--> 11.00 11.10 11.20

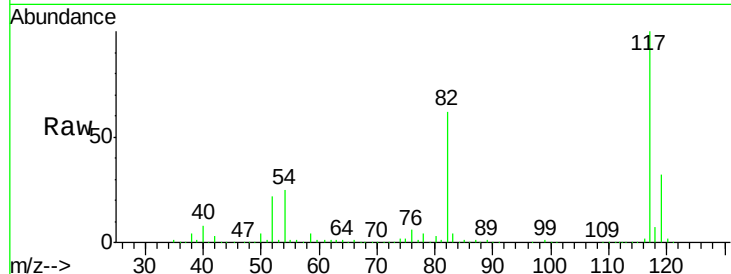




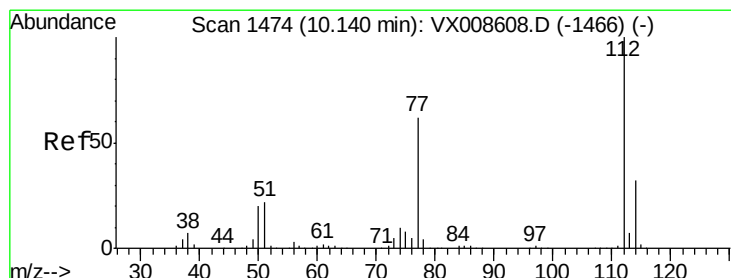
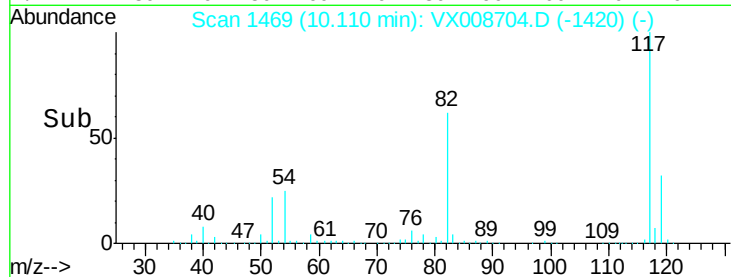
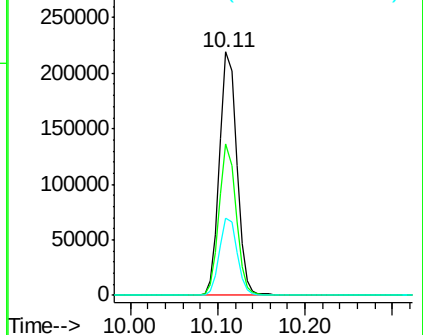
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008704.D
Acq: 05 Apr 2019 23:59

Instrument :
MSVOA_X
ClientSampleId :
S8-0698

Tot Ion:117 Resp: 300745
Ion Ratio Lower Upper
117 100
82 62.0 49.6 74.4
119 31.9 25.0 37.4

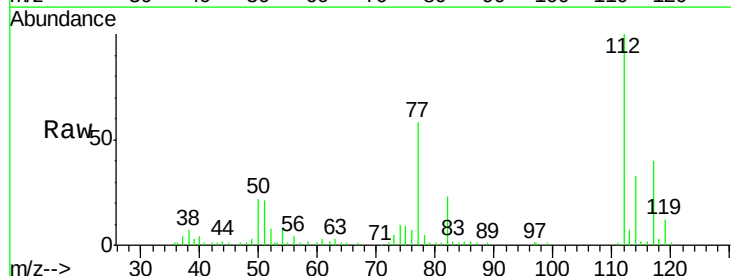


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

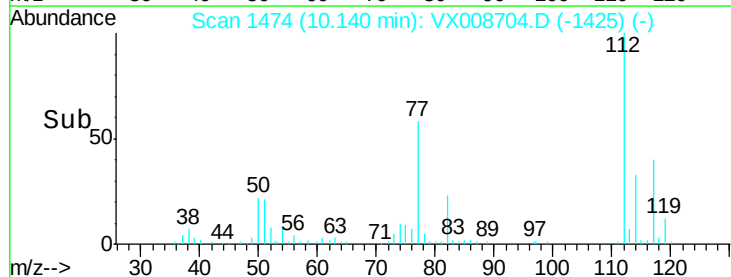
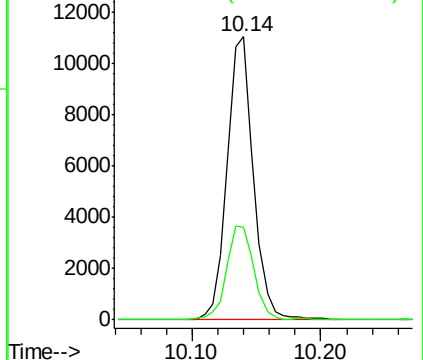


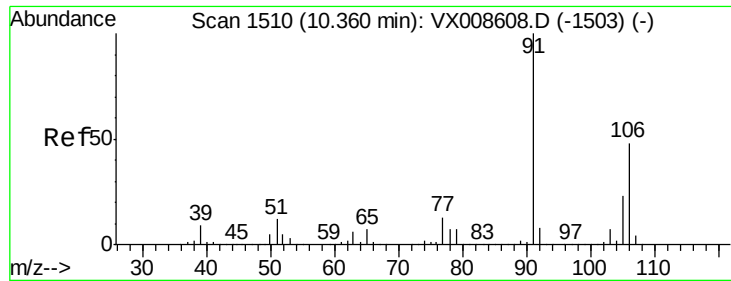
#65
Chlorobenzene
Concen: 2.366 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX008704.D
Acq: 05 Apr 2019 23:59

Tgt Ion:112 Resp: 15771
Ion Ratio Lower Upper
112 100
114 32.8 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#68

m/p-Xvlenes

Concen: 0.524 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

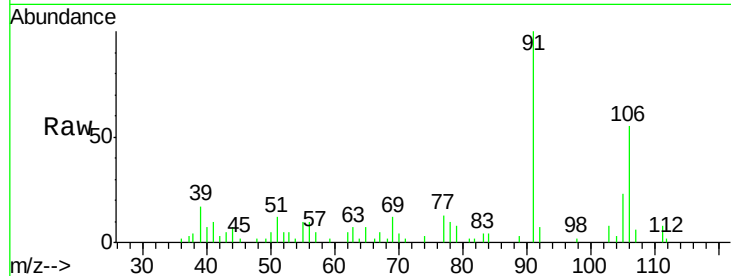
S8-0698

Tot Ion:106 Resp: 2343

Ion Ratio Lower Upper

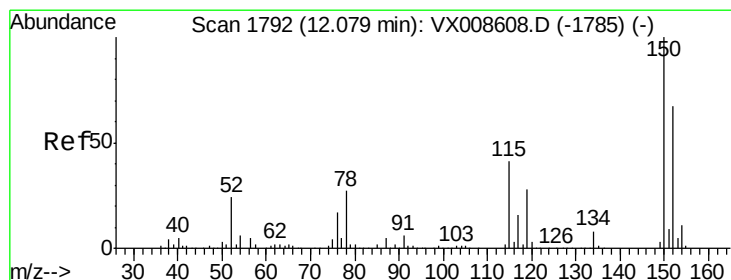
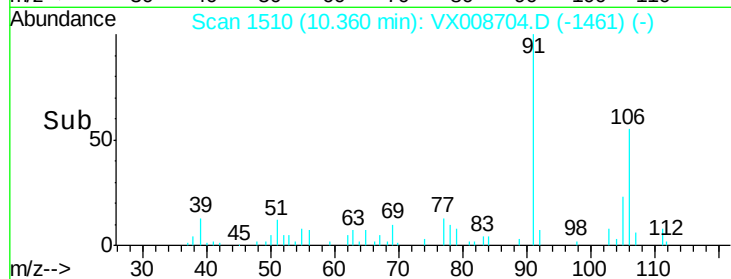
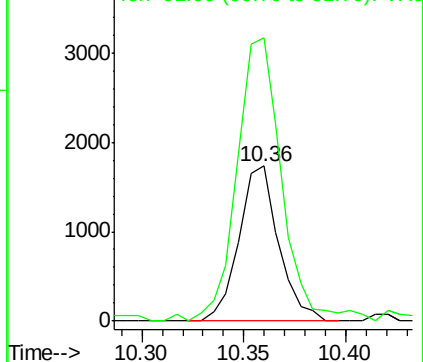
106 100

91 207.0 168.5 252.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

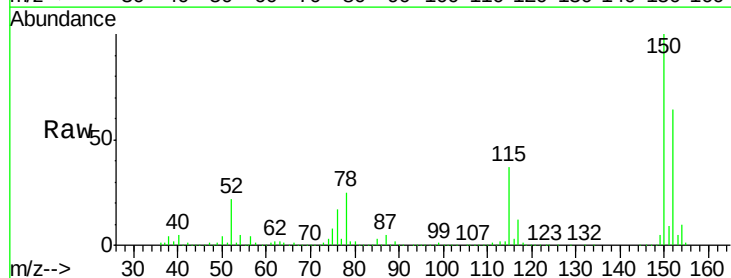
Tgt Ion:152 Resp: 129692

Ion Ratio Lower Upper

152 100

115 60.5 43.5 130.5

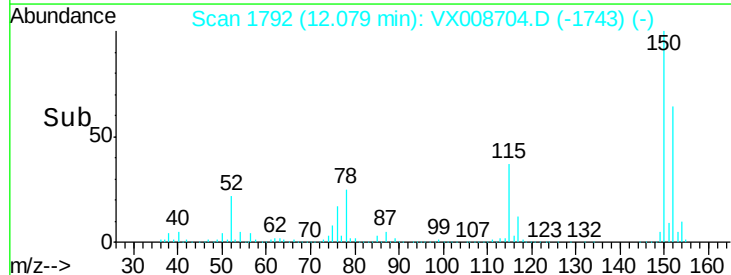
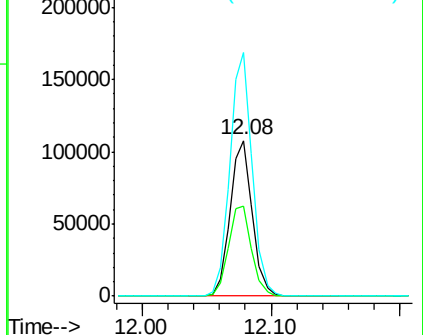
150 157.2 0.0 348.8

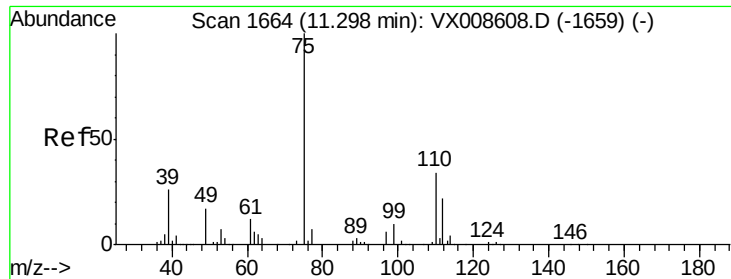


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

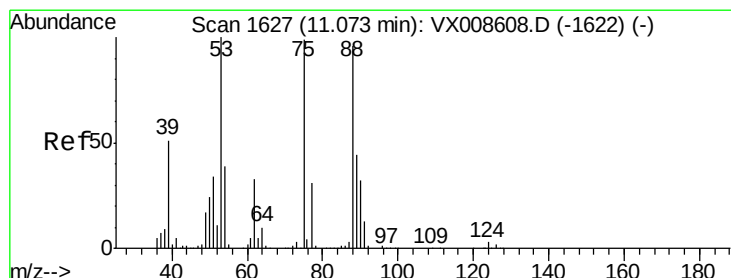
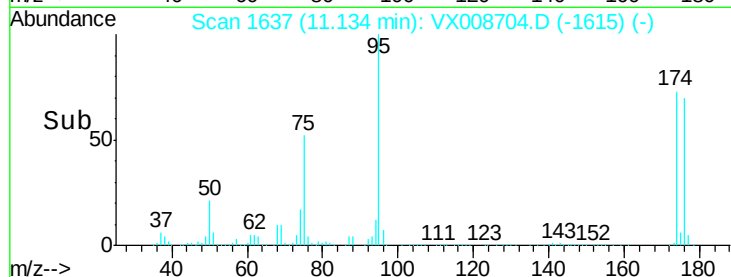
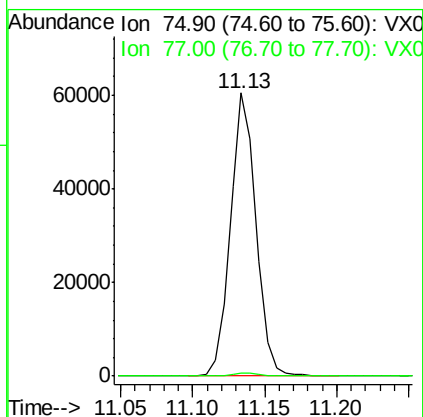
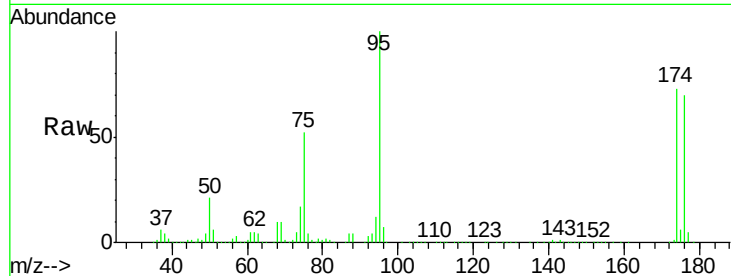
S8-0698

Tot Ion: 75 Resp: 75367

Ion Ratio Lower Upper

75 100

77 1.4 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.312 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

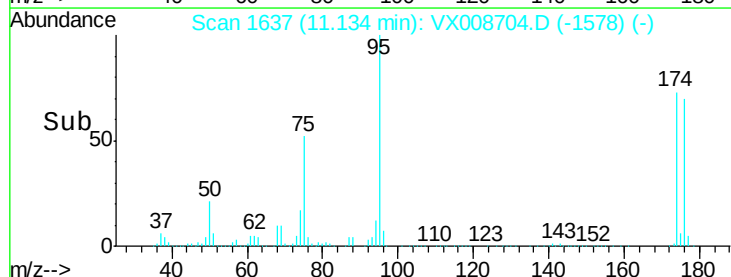
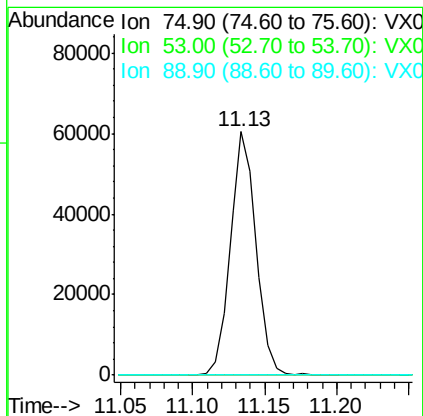
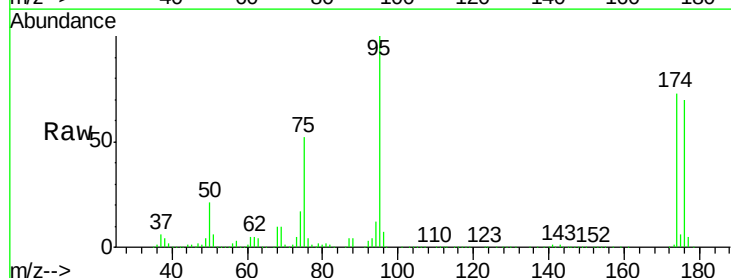
Tgt Ion: 75 Resp: 75367

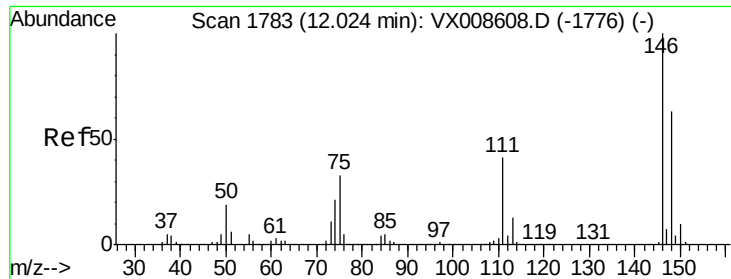
Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.1 35.6 53.4#

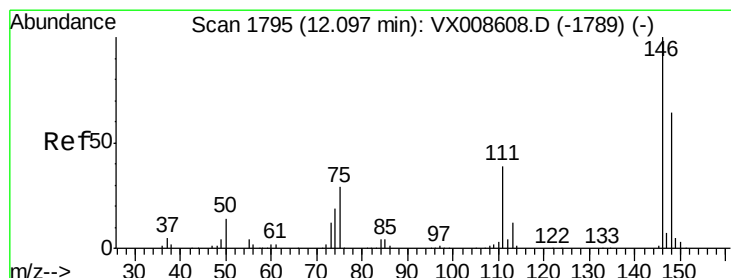
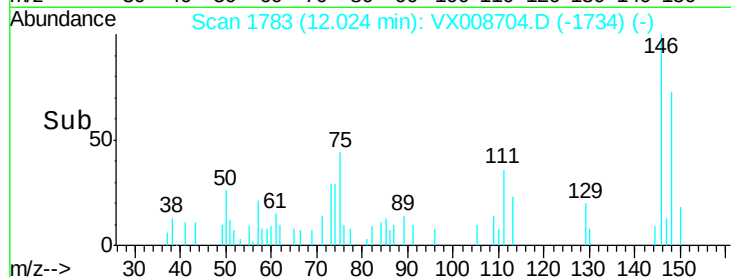
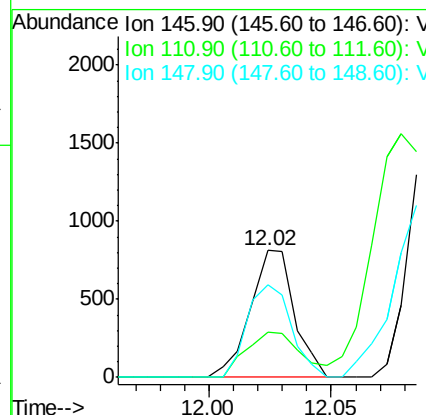
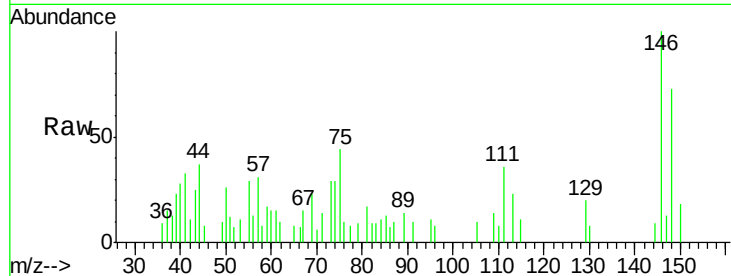




#87
 1,3-Dichlorobenzene
 Concen: 0.222 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX008704.D
 Acq: 05 Apr 2019 23:59

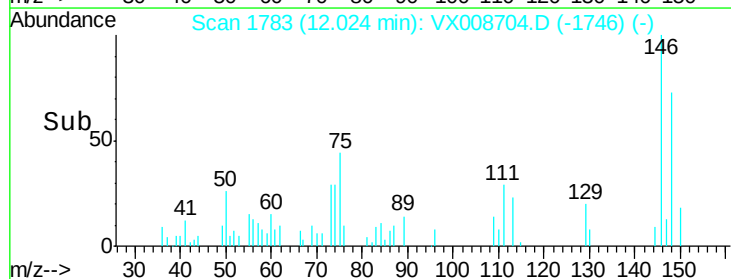
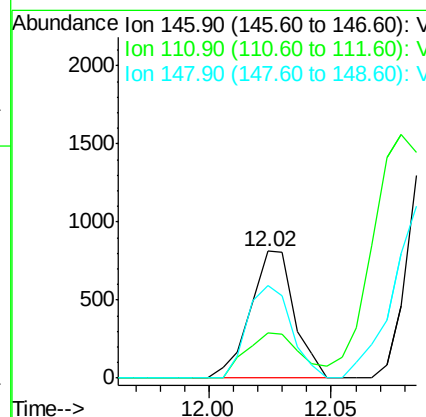
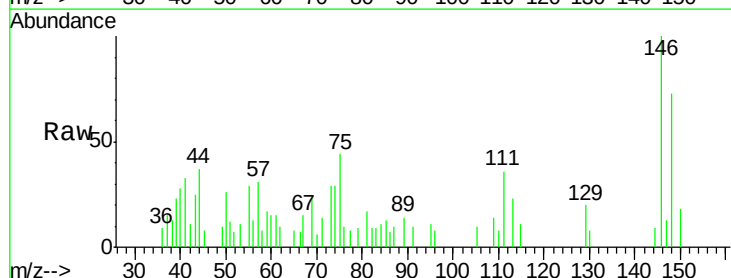
Instrument :
 MSVOA_X
 ClientSampled :
 S8-0698

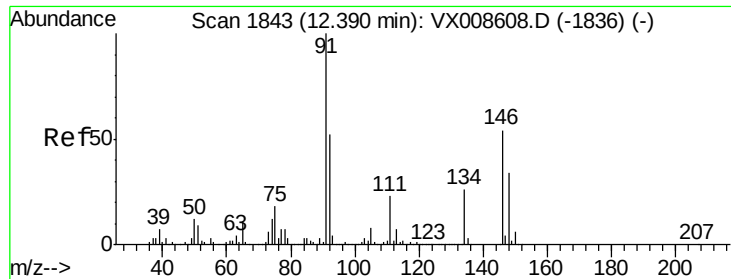
Tot Ion:146 Resp: 1026
 Ion Ratio Lower Upper
 146 100
 111 44.7 20.5 61.5
 148 72.9 31.6 94.7



#88
 1,4-Dichlorobenzene
 Concen: 0.219 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.07 min
 Lab File: VX008704.D
 Acq: 05 Apr 2019 23:59

Tgt Ion:146 Resp: 1026
 Ion Ratio Lower Upper
 146 100
 111 44.7 20.2 60.6
 148 72.9 32.0 96.0





#91

1,2-Dichlorobenzene

Concen: 0.307 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX008704.D

Acq: 05 Apr 2019 23:59

Instrument :

MSVOA_X

ClientSampleId :

S8-0698

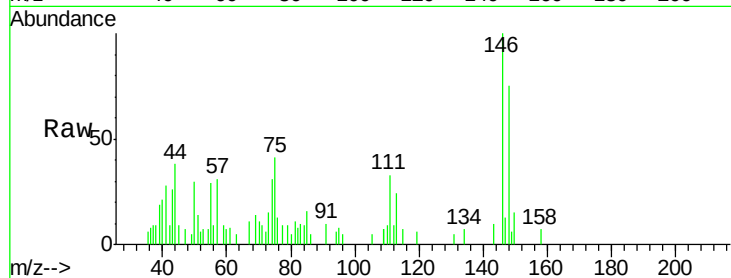
Tot Ion:146 Resp: 1408

Ion Ratio Lower Upper

146 100

111 50.0 21.3 63.9

148 73.3 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

