

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040619\
 Data File : VX008711.D
 Acq On : 06 Apr 2019 11:35
 Operator : JC/SP
 Sample : K2311-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 0167-FIELD-BLANK

Quant Time: Apr 08 01:51:52 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	200034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	332185	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	281264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	115242	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	135387	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
35) Dibromofluoromethane	5.49	113	99806	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	8.71	98	414008	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	11.13	95	134590	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	

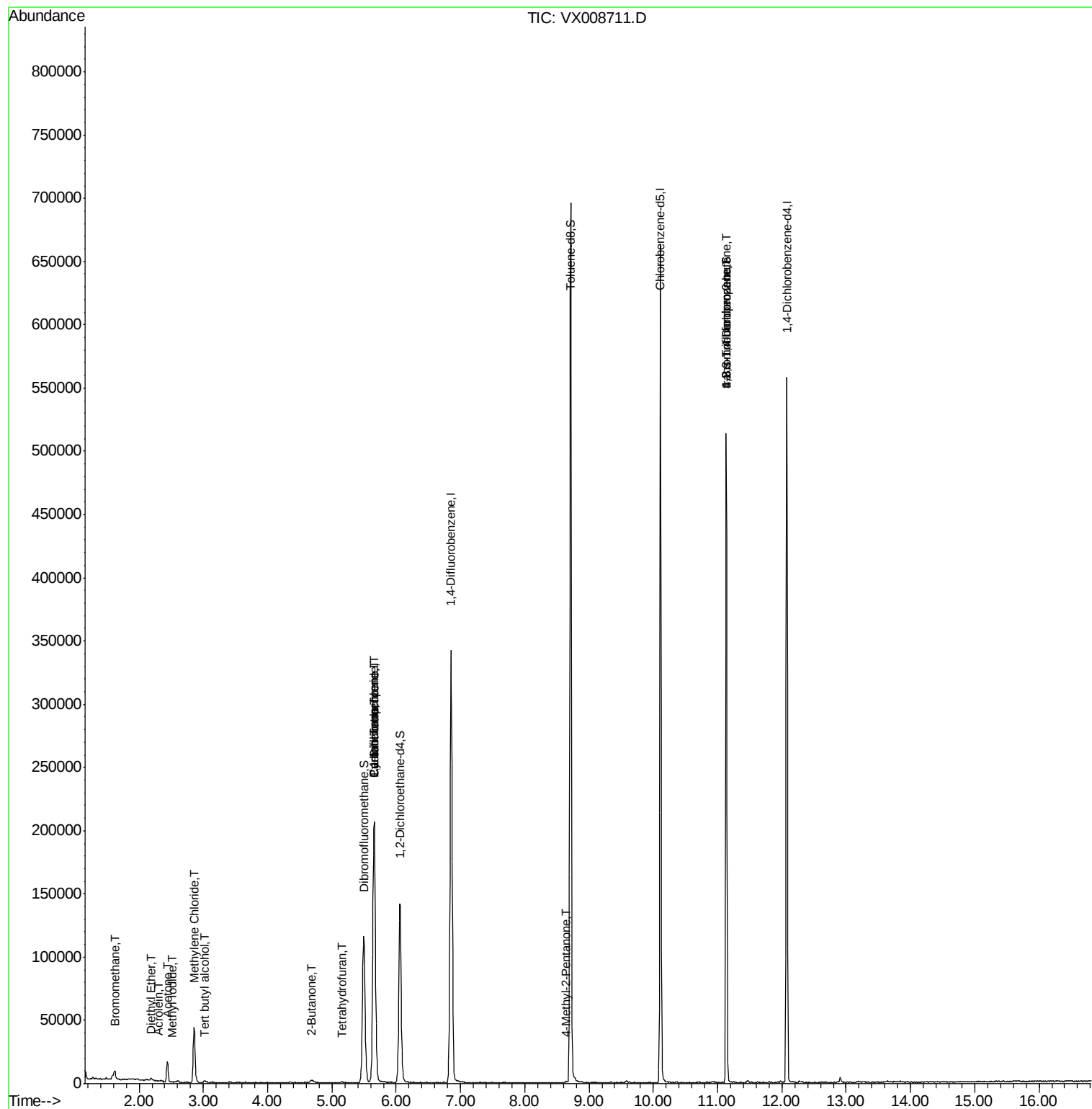
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	459	Below Cal	#	83
5) Bromomethane	1.64	94	380	2.124	ug/l	96
6) Chloroethane	1.73	64	90	Below Cal	#	43
8) Diethyl Ether	2.18	74	563	0.345	ug/l	78
10) Methyl Iodide	2.51	142	134	4.064	ug/l #	42
11) Tert butyl alcohol	3.03	59	1210	1.771	ug/l #	72
13) Acrolein	2.29	56	93	0.275	ug/l	92
16) Acetone	2.44	43	18503	11.011	ug/l	100
17) Carbon Disulfide	2.57	76	902	Below Cal	#	58
20) Methylene Chloride	2.85	84	20303	7.218	ug/l	98
25) 2-Butanone	4.68	43	1567	0.590	ug/l	99
28) Bromochloromethane	4.95	49	20	Below Cal	#	22
29) Tetrahydrofuran	5.15	42	725	0.411	ug/l #	86
31) Cyclohexane	5.66	56	4480	0.889	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	16187	4.458	ug/l #	51
38) Carbon Tetrachloride	5.66	117	19244	6.403	ug/l #	16
51) 4-Methyl-2-Pentanone	8.64	43	1055	0.216	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	68552	21.654	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	68552	59.690	ug/l #	9

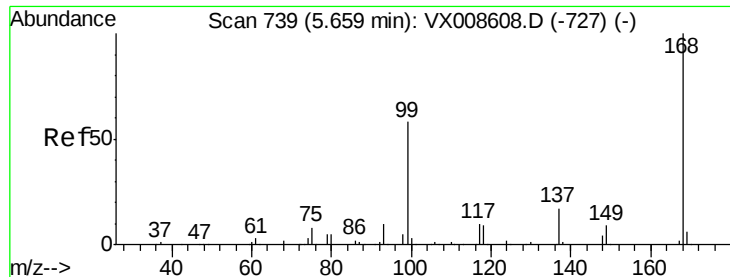
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

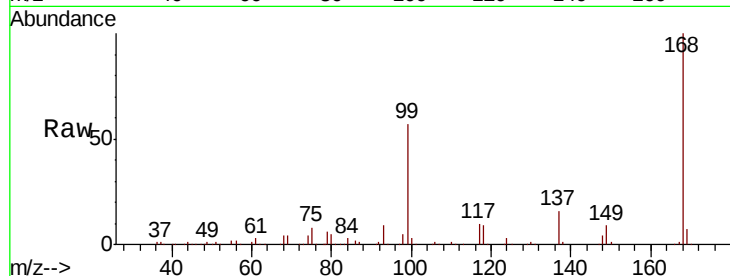
0167-FIELD-BLANK

Tot Ion:168 Resp: 200034

Ion Ratio Lower Upper

168 100

99 57.2 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

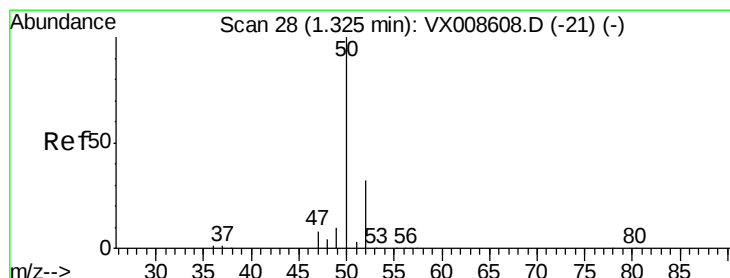
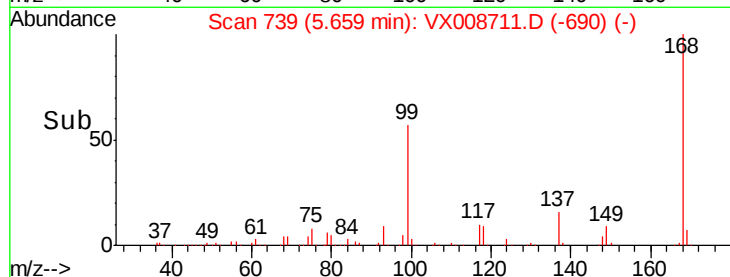
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008711.D

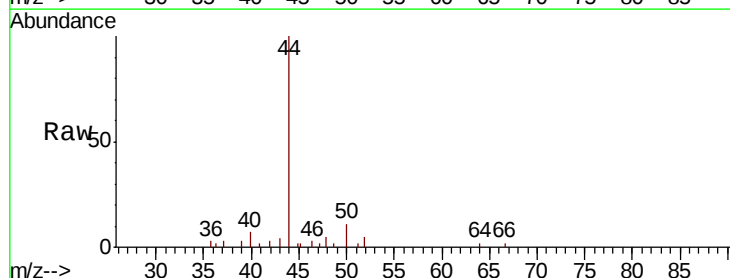
Acq: 06 Apr 2019 11:35

Tgt Ion: 50 Resp: 459

Ion Ratio Lower Upper

50 100

52 42.1 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

300

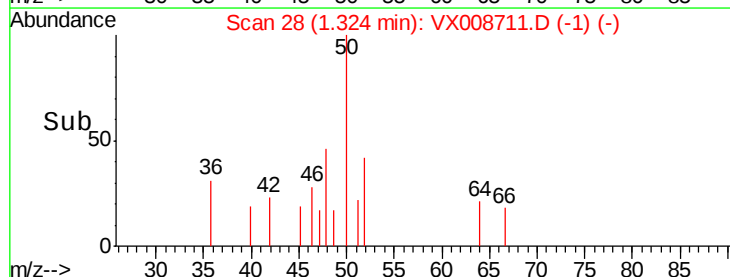
200

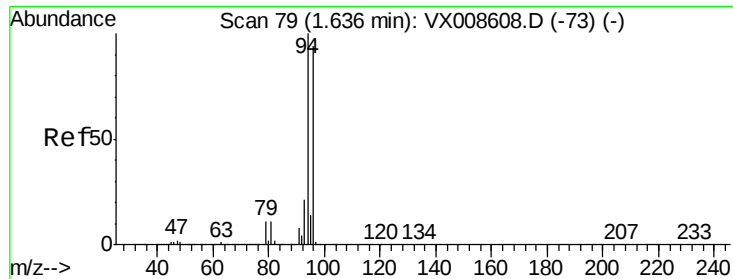
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 2.124 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

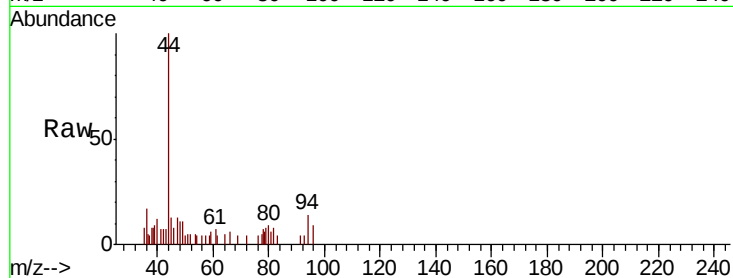
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Tot Ion: 94 Resp: 380

Ion Ratio Lower Upper

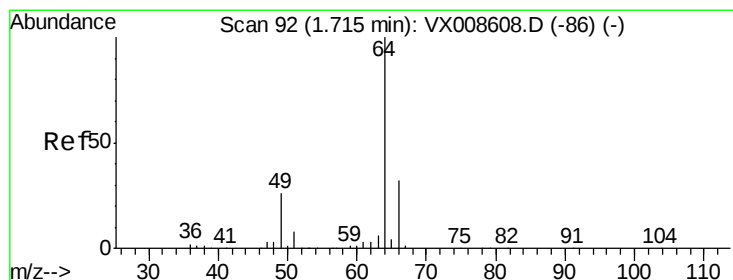
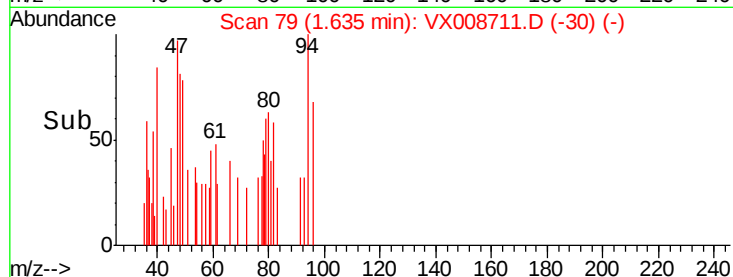
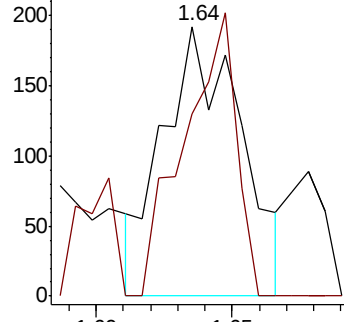
94 100

96 97.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008711.D

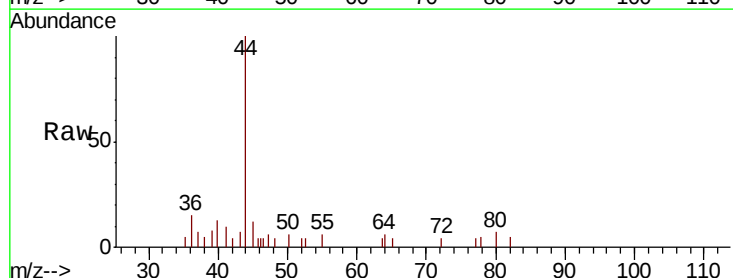
Acq: 06 Apr 2019 11:35

Tgt Ion: 64 Resp: 90

Ion Ratio Lower Upper

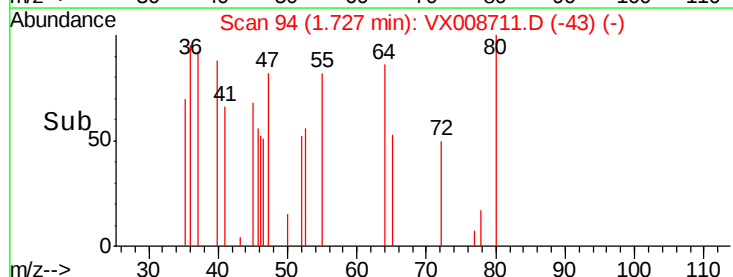
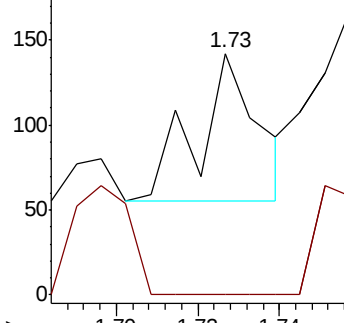
64 100

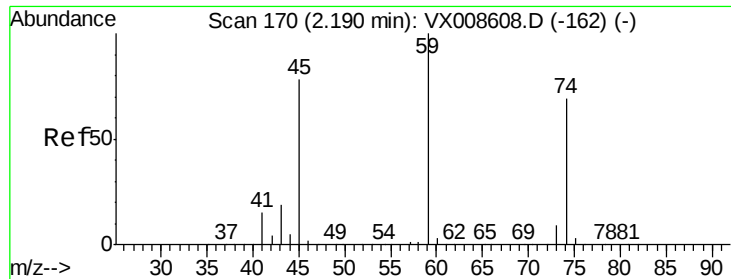
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.345 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

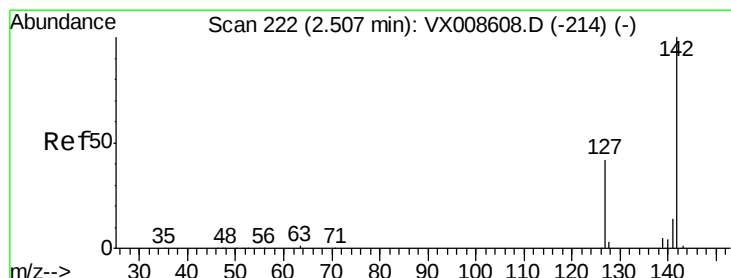
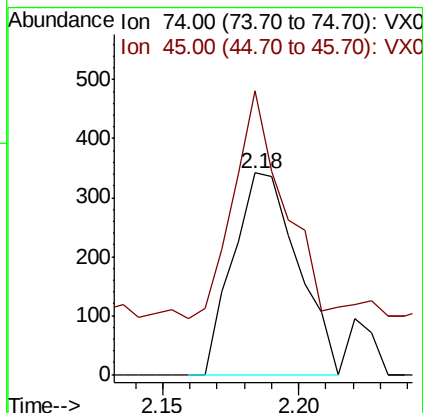
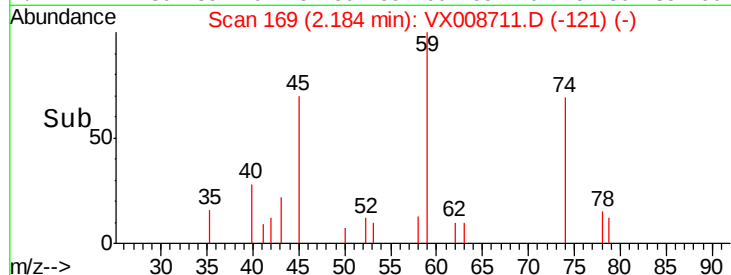
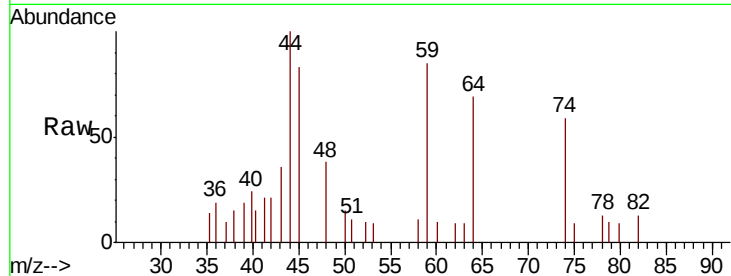
0167-FIELD-BLANK

Tot Ion: 74 Resp: 563

Ion Ratio Lower Upper

74 100

45 89.0 56.5 169.5



#10

Methyl Iodide

Concen: 4.064 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

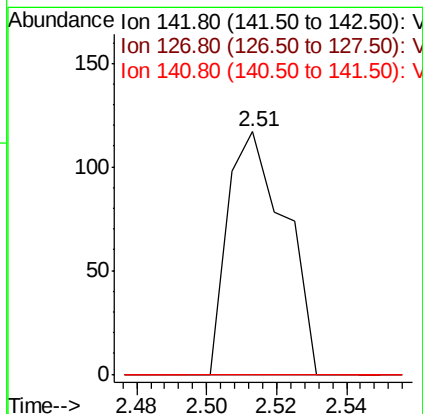
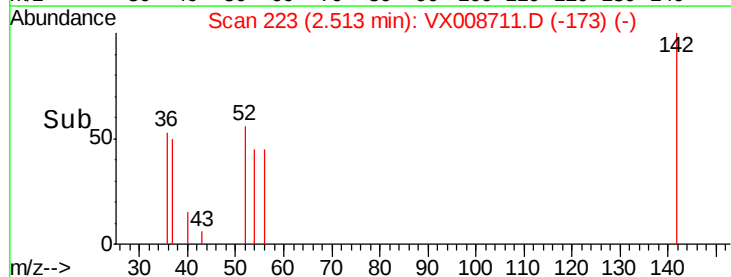
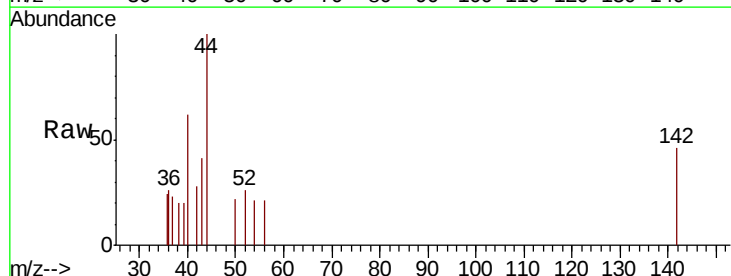
Tgt Ion: 142 Resp: 134

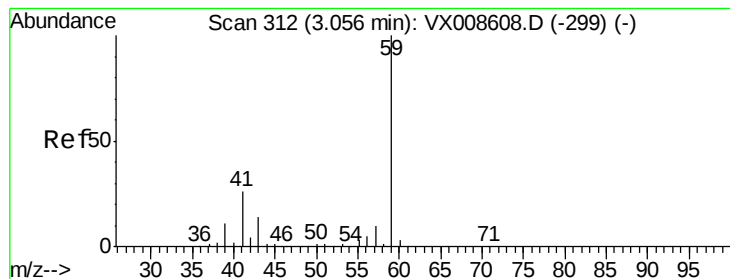
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



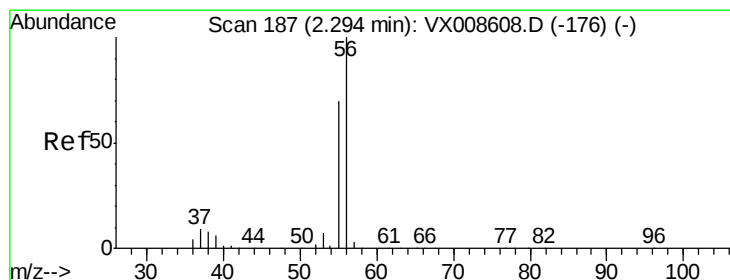
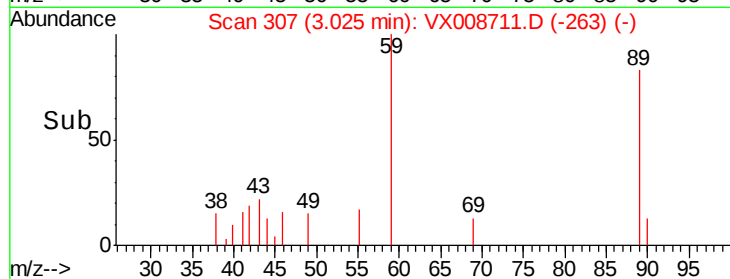
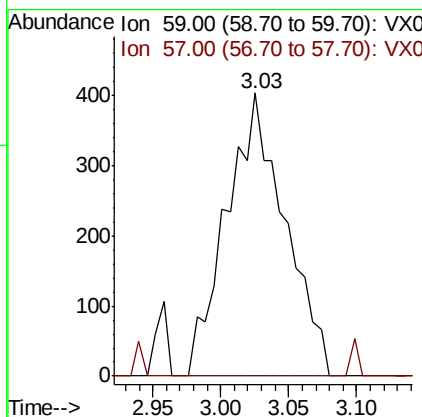
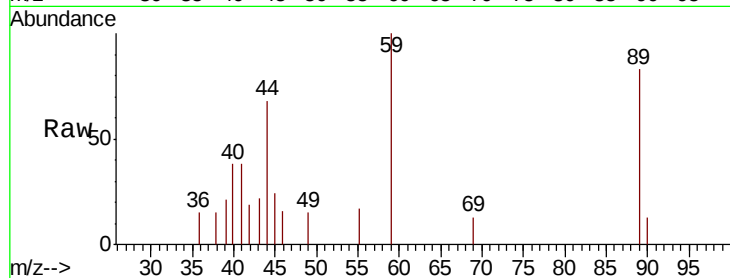


#11

Tert butyl alcohol
 Concen: 1.771 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.03 min
 Lab File: VX008711.D
 Acq: 06 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 0167-FIELD-BLANK

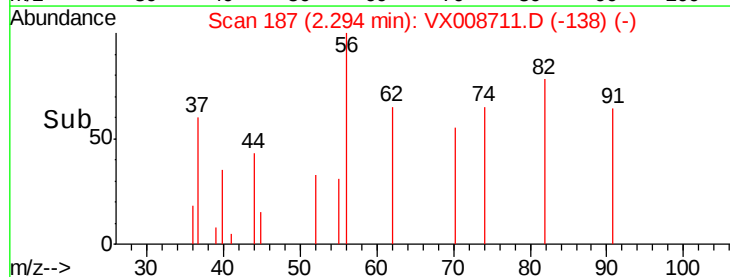
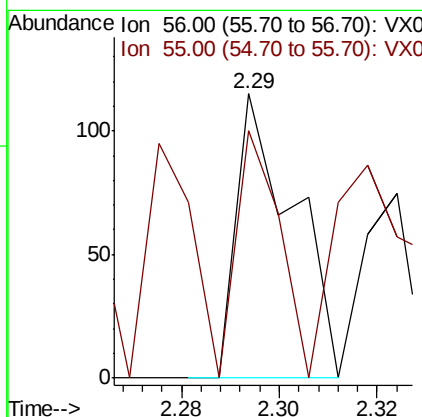
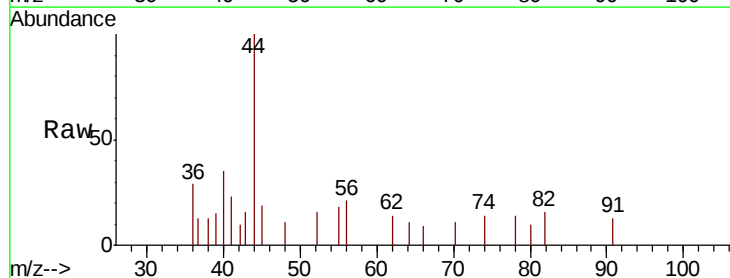
Tot Ion: 59 Resp: 1210
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

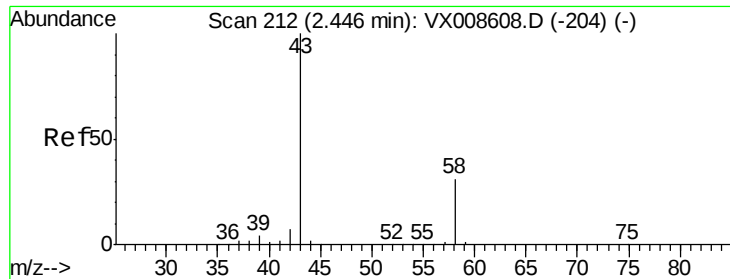


#13

Acrolein
 Concen: 0.275 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX008711.D
 Acq: 06 Apr 2019 11:35

Tgt Ion: 56 Resp: 93
 Ion Ratio Lower Upper
 56 100
 55 65.6 58.0 87.0





#16

Acetone

Concen: 11.011 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

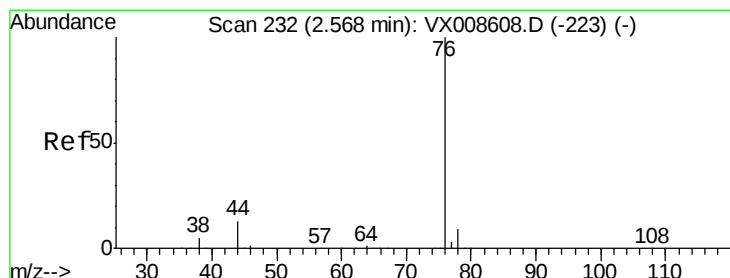
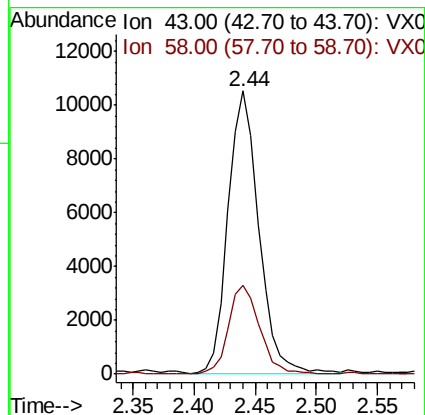
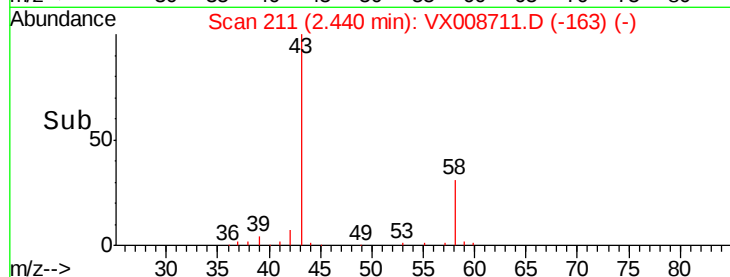
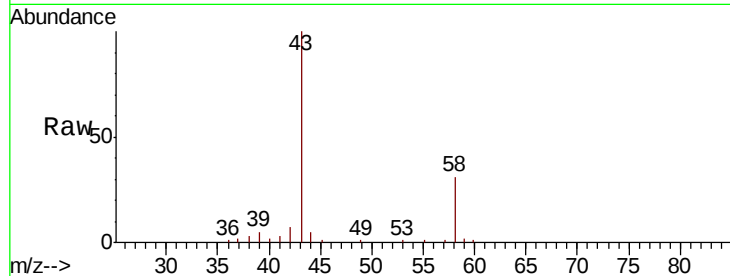
0167-FIELD-BLANK

Tot Ion: 43 Resp: 18503

Ion Ratio Lower Upper

43 100

58 31.2 24.8 37.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008711.D

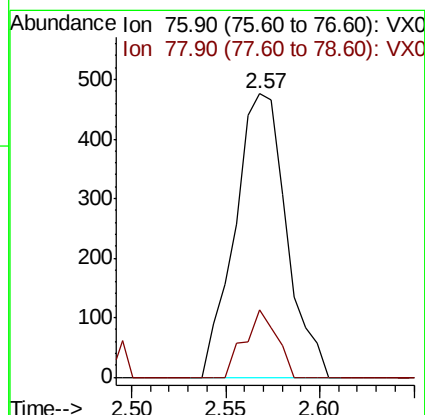
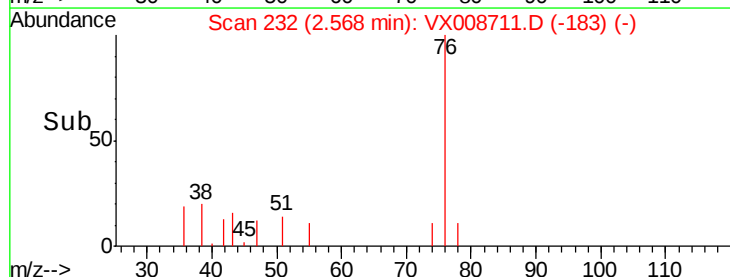
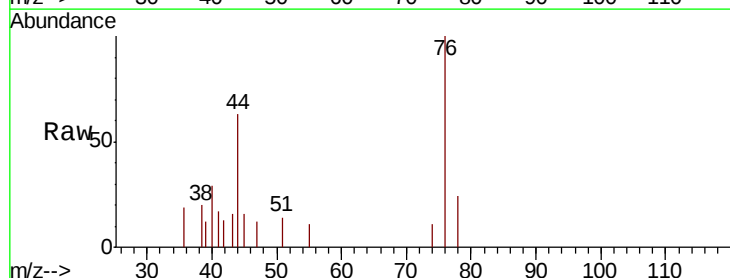
Acq: 06 Apr 2019 11:35

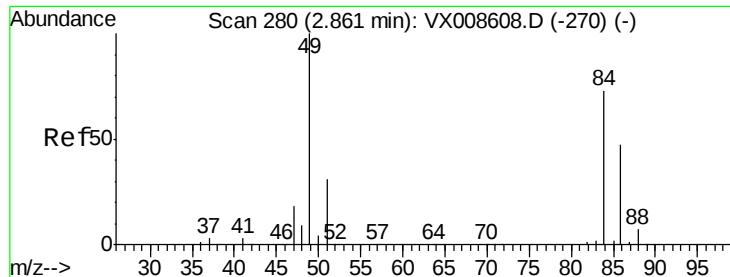
Tgt Ion: 76 Resp: 902

Ion Ratio Lower Upper

76 100

78 23.9 7.1 10.7#





#20

Methvlene Chloride

Concen: 7.218 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
0167-FIELD-BLANK

Tot Ion: 84 Resp: 20303

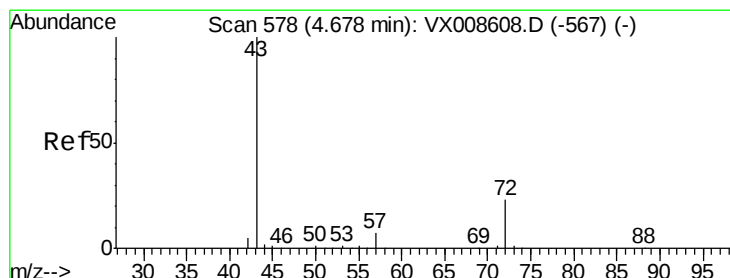
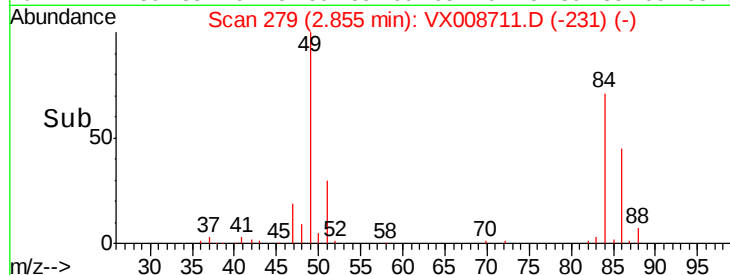
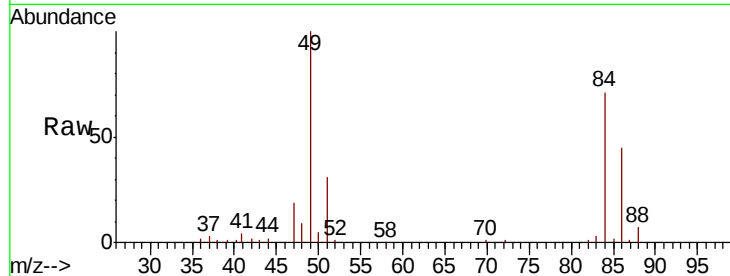
Ion Ratio Lower Upper

84 100

49 140.4 109.7 164.5

51 43.3 33.6 50.4

86 63.9 51.4 77.2



#25

2-Butanone

Concen: 0.590 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.00 min

Lab File: VX008711.D

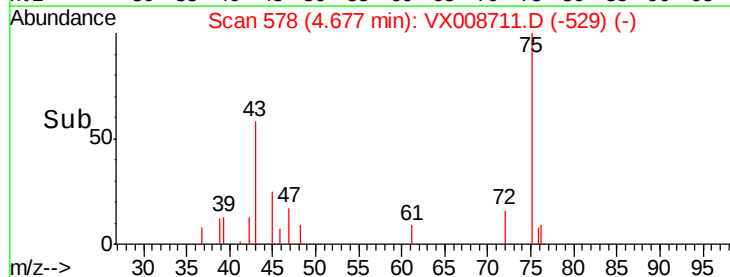
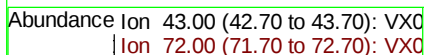
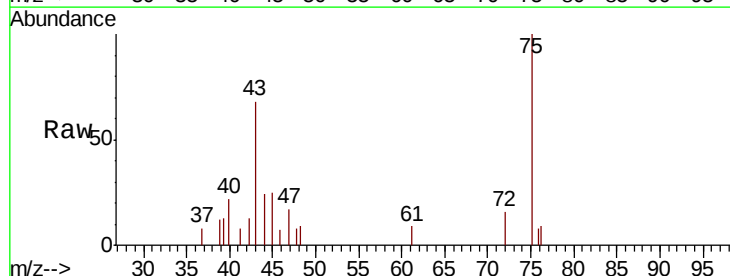
Acq: 06 Apr 2019 11:35

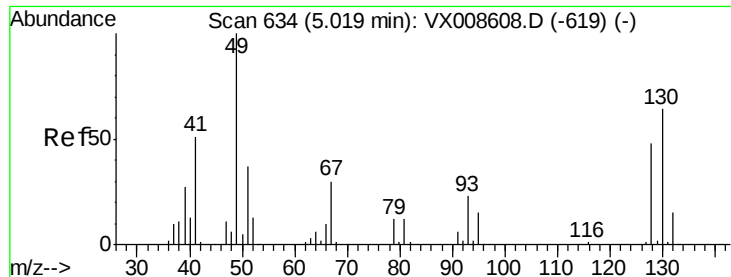
Tgt Ion: 43 Resp: 1567

Ion Ratio Lower Upper

43 100

72 23.3 18.2 27.4





#28

Bromochloromethane

Concen: Below Cal

RT: 4.95 min Scan# 622

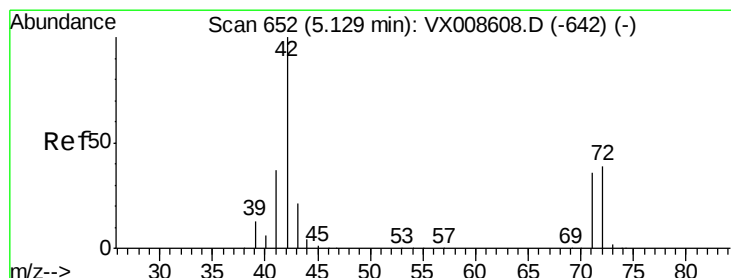
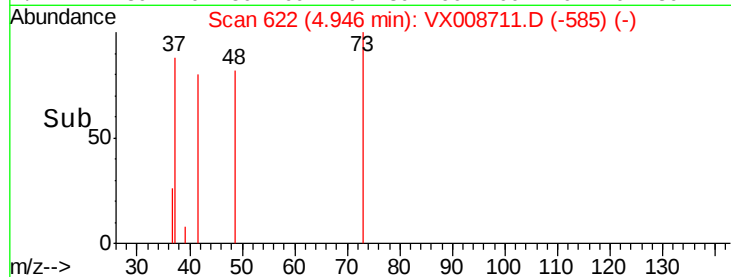
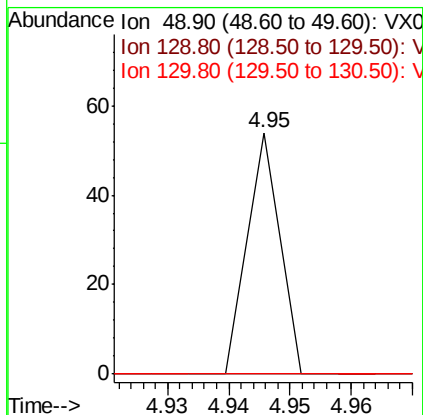
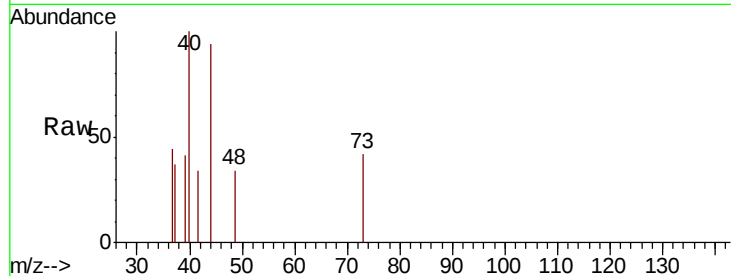
Delta R.T. -0.07 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
0167-FIELD-BLANK

Tot Ion: 49 Resp: 20
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#



#29

Tetrahydrofuran

Concen: 0.411 ug/l

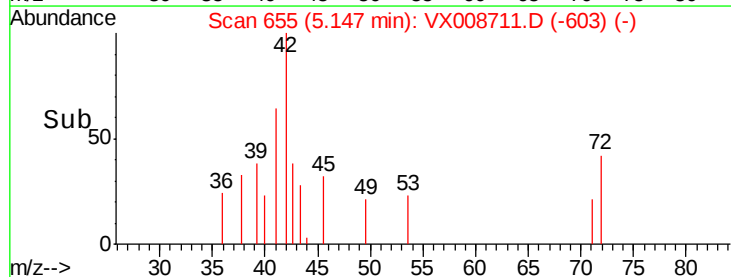
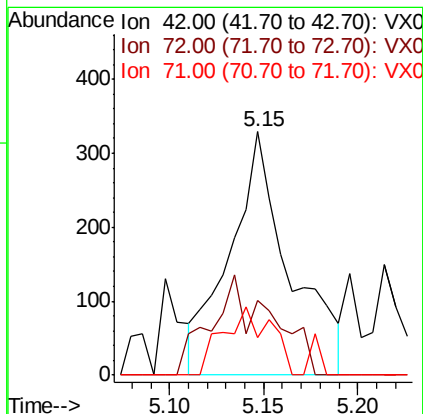
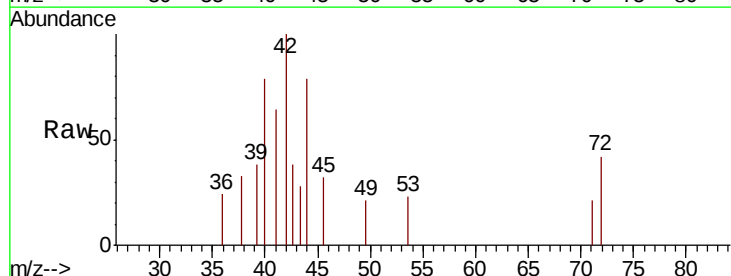
RT: 5.15 min Scan# 655

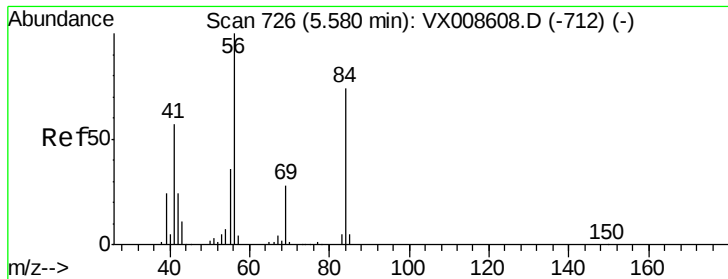
Delta R.T. 0.02 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Tgt Ion: 42 Resp: 725
Ion Ratio Lower Upper
42 100
72 41.5 30.5 45.7
71 22.3 28.6 43.0#

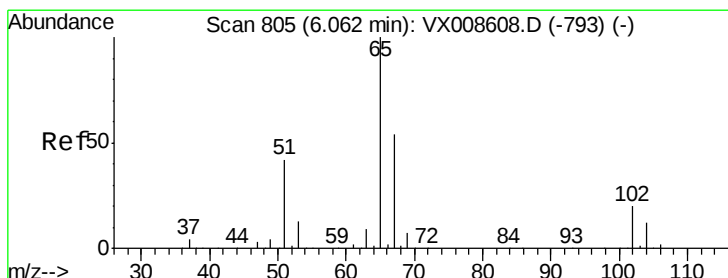
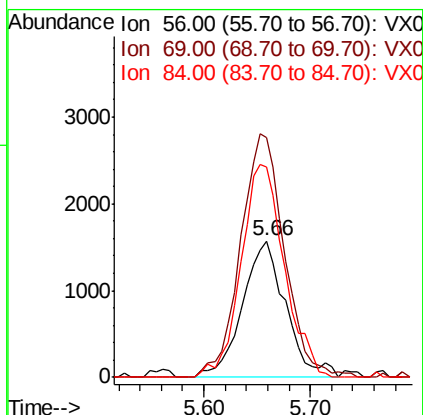
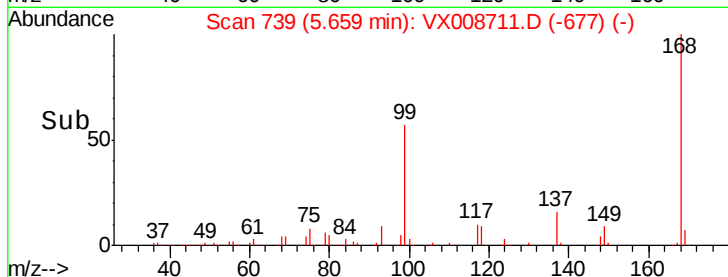
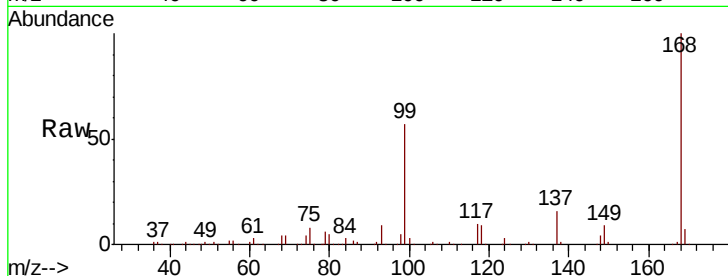




#31
Cyclohexane
Concen: 0.889 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008711.D
Acq: 06 Apr 2019 11:35

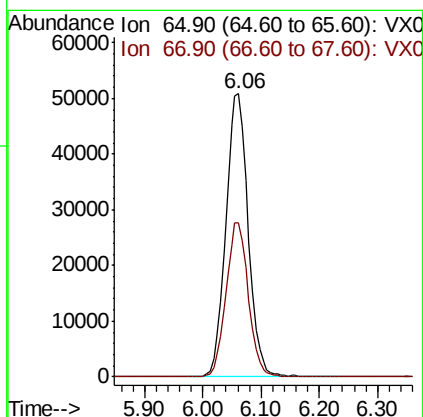
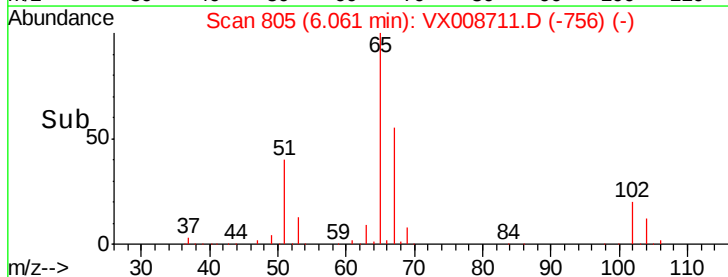
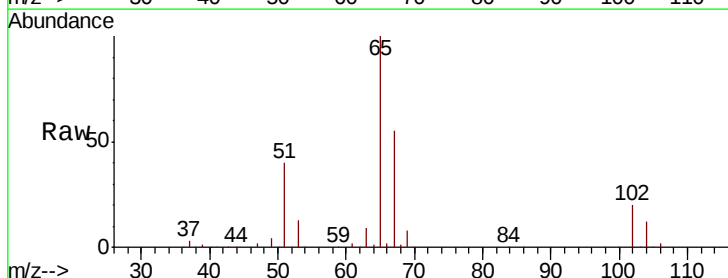
Instrument :
MSVOA_X
ClientSampleId :
0167-FIELD-BLANK

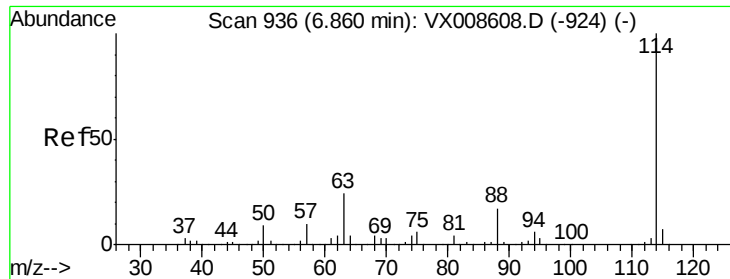
Tot Ion: 56 Resp: 4480
Ion Ratio Lower Upper
56 100
69 175.6 22.6 33.8#
84 153.8 59.3 88.9#



#33
1,2-Dichloroethane-d4
Concen: 46.403 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008711.D
Acq: 06 Apr 2019 11:35

Tgt Ion: 65 Resp: 135387
Ion Ratio Lower Upper
65 100
67 54.5 0.0 107.2

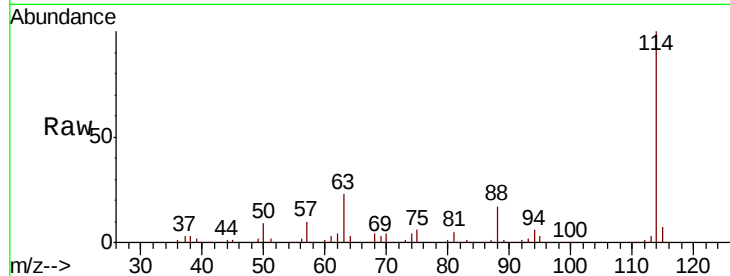




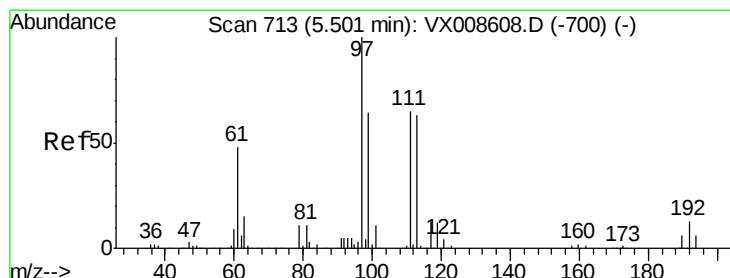
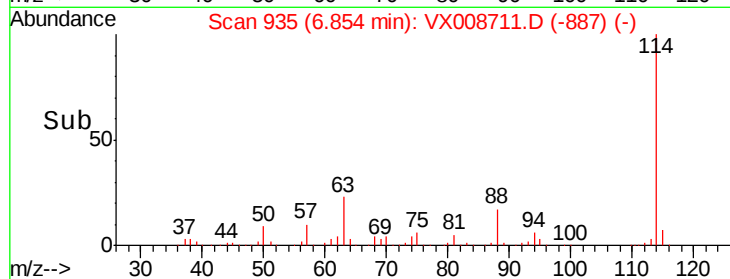
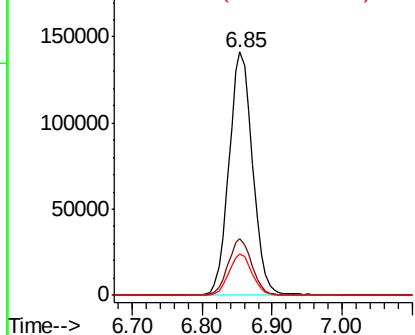
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX008711.D
 Acq: 06 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 0167-FIELD-BLANK

Tot Ion:114 Resp: 332185
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 47.2
 88 16.8 0.0 34.0

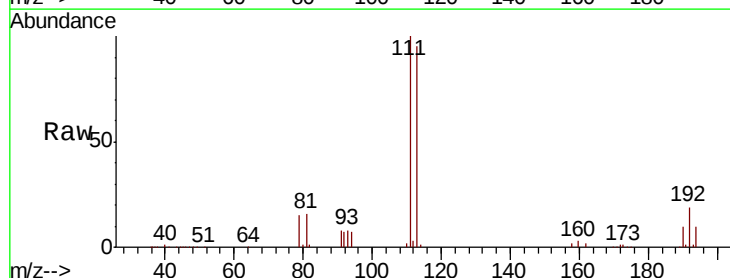


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

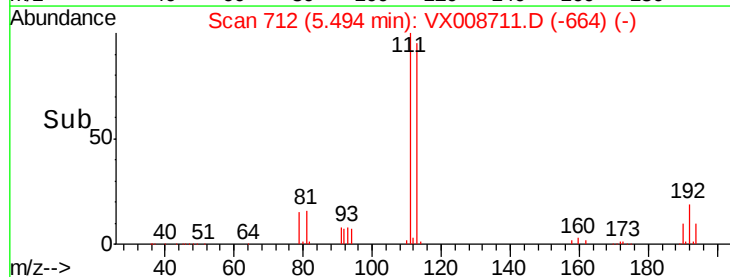
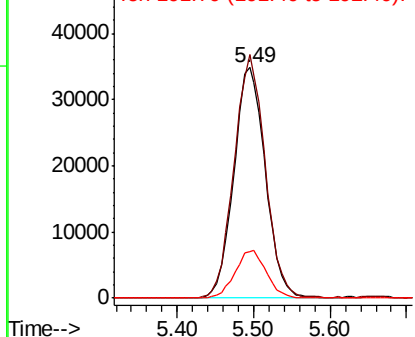


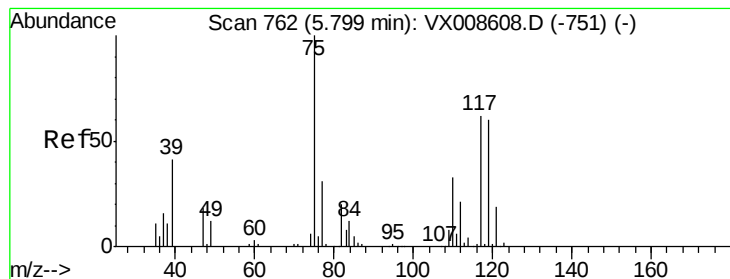
#35
 Dibromofluoromethane
 Concen: 46.993 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX008711.D
 Acq: 06 Apr 2019 11:35

Tgt Ion:113 Resp: 99806
 Ion Ratio Lower Upper
 113 100
 111 103.9 83.4 125.2
 192 20.4 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: 4.458 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

0167-FIELD-BLANK

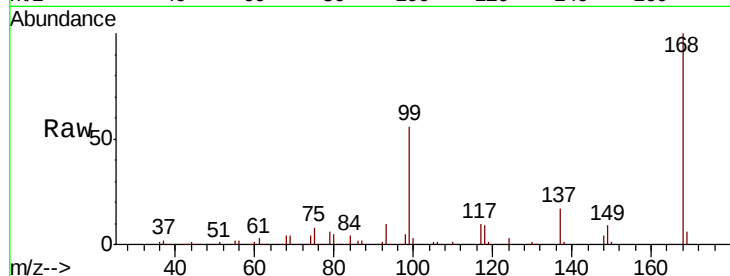
Tot Ion: 75 Resp: 16187

Ion Ratio Lower Upper

75 100

110 9.0 16.4 49.2#

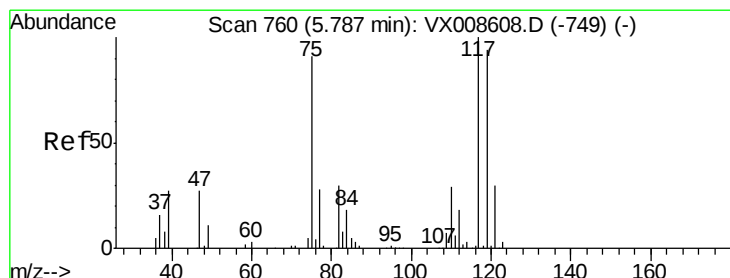
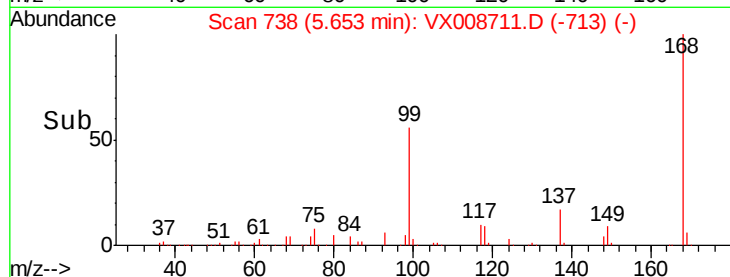
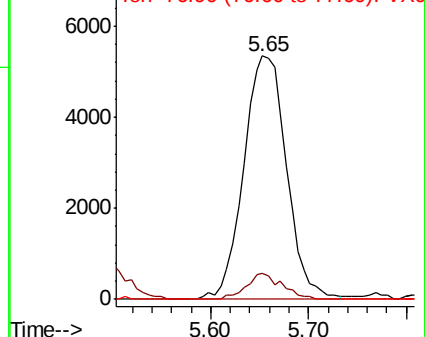
77 0.0 24.7 37.1#



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: 6.403 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

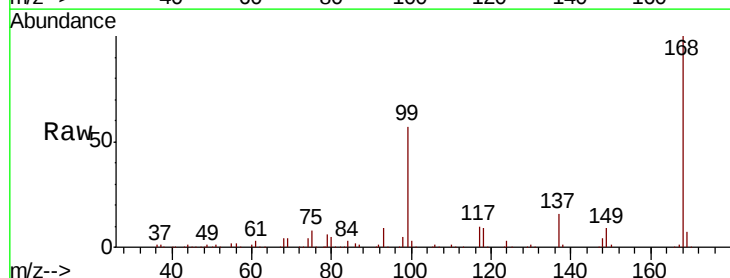
Tgt Ion:117 Resp: 19244

Ion Ratio Lower Upper

117 100

119 3.9 75.0 112.6#

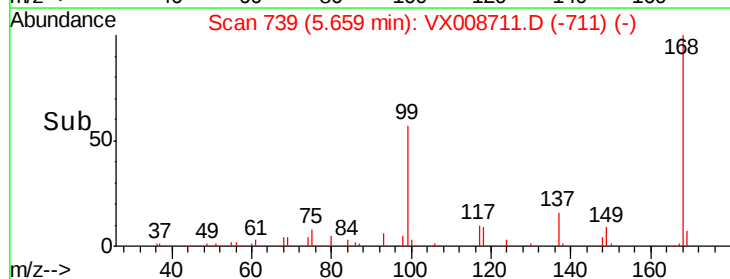
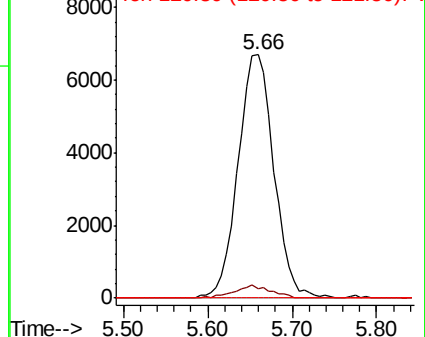
121 0.0 24.3 36.5#

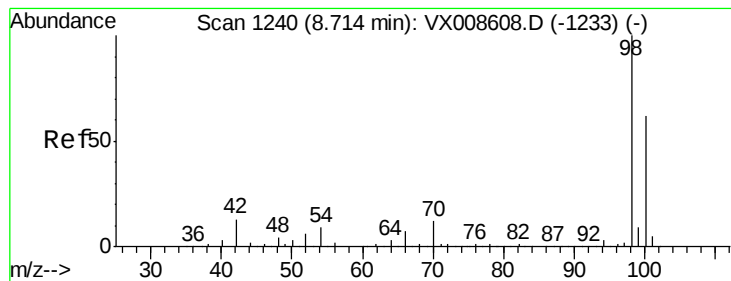


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.956 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

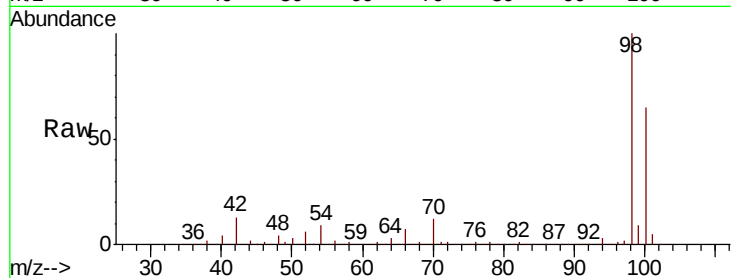
Instrument :
MSVOA_X
ClientSampleId :
0167-FIELD-BLANK

Tot Ion: 98 Resp: 414008

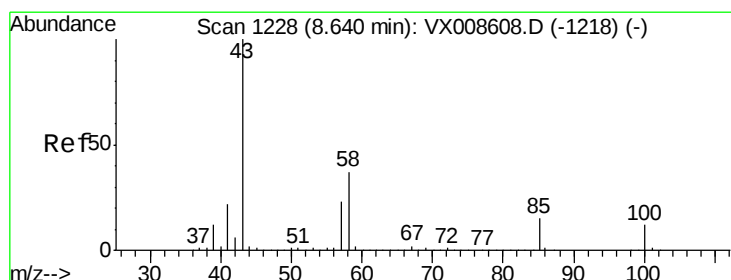
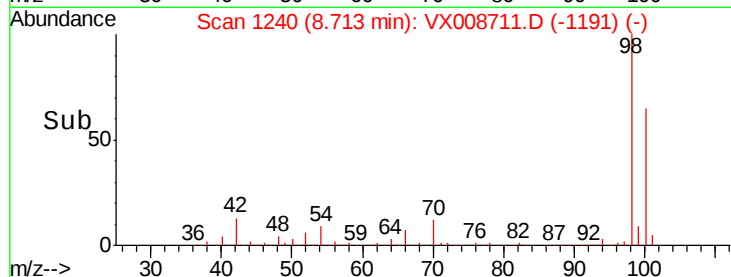
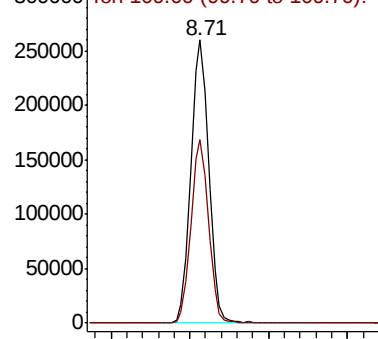
Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0



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



#51

4-Methyl-2-Pentanone

Concen: 0.216 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008711.D

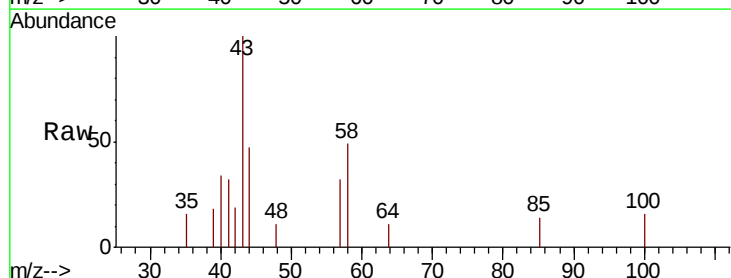
Acq: 06 Apr 2019 11:35

Tgt Ion: 43 Resp: 1055

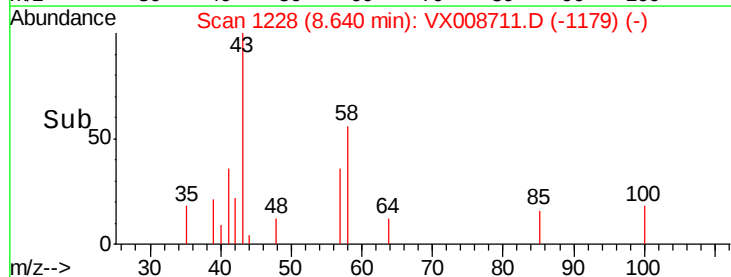
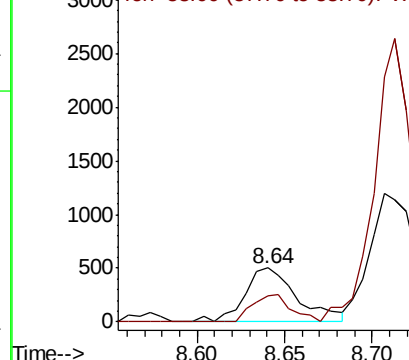
Ion Ratio Lower Upper

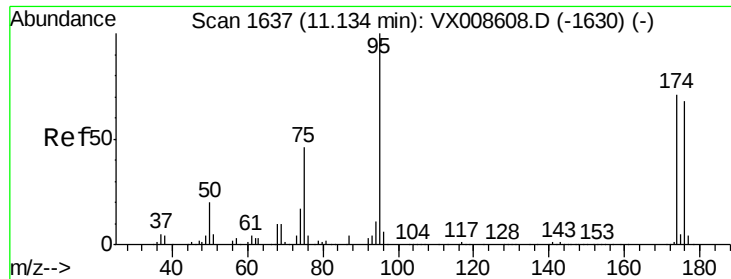
43 100

58 37.0 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.880 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

0167-FIELD-BLANK

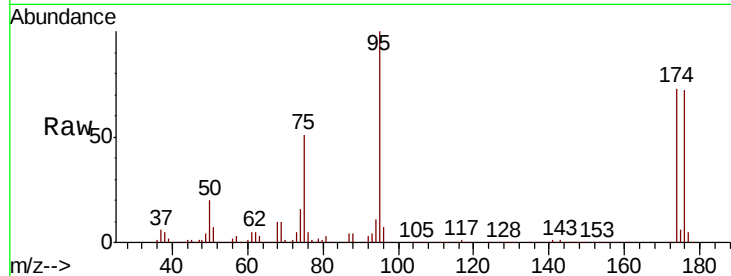
Tot Ion: 95 Resp: 134590

Ion Ratio Lower Upper

95 100

174 76.9 0.0 151.8

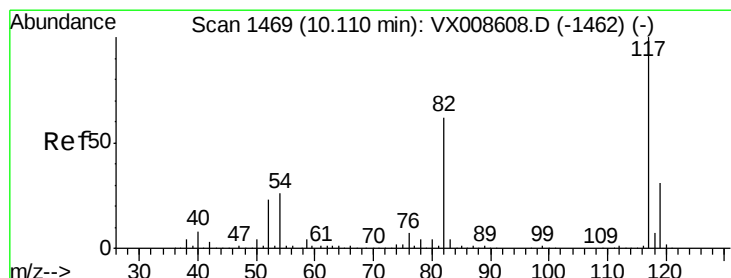
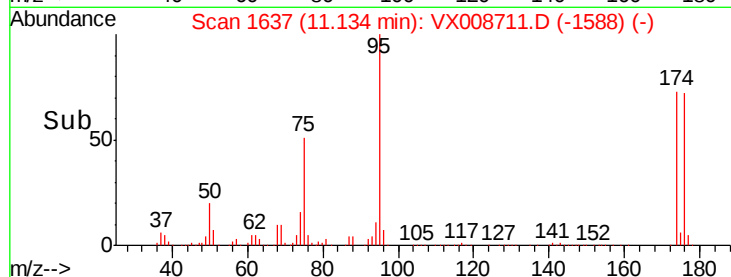
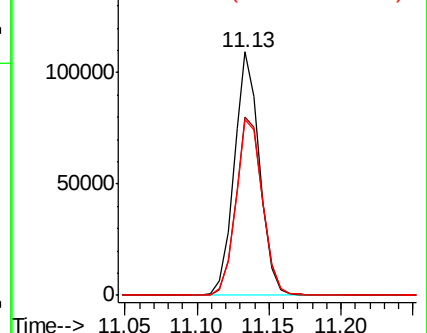
176 75.7 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008608.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008608.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008608.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

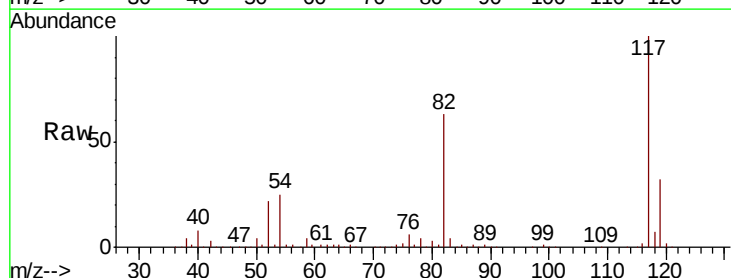
Tgt Ion: 117 Resp: 281264

Ion Ratio Lower Upper

117 100

82 62.5 49.6 74.4

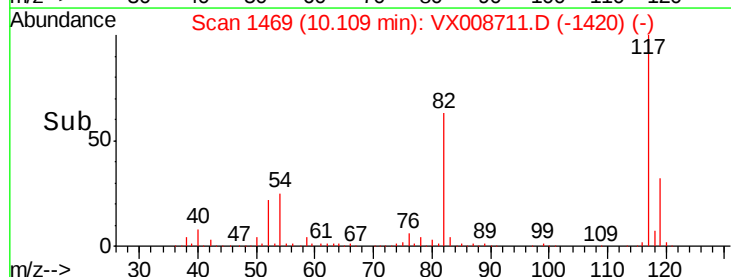
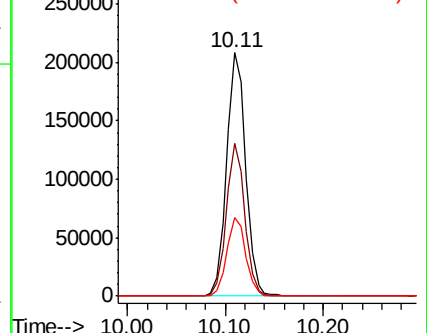
119 32.1 25.0 37.4

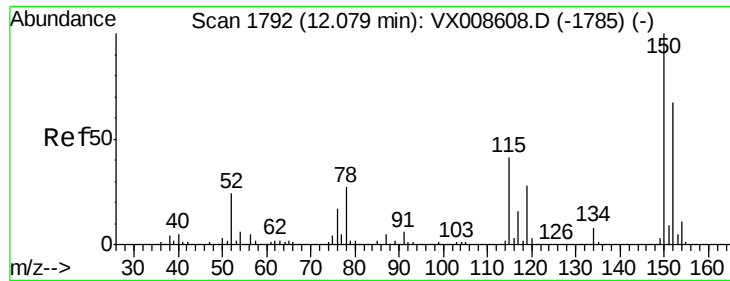


Abundance Ion 116.90 (116.60 to 117.60): VX008608.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008608.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008608.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

0167-FIELD-BLANK

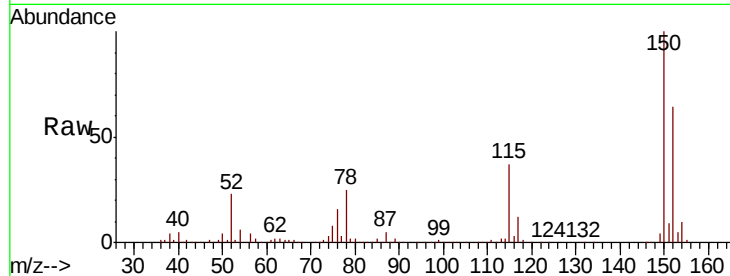
Tot Ion:152 Resp: 115242

Ion Ratio Lower Upper

152 100

115 60.6 43.5 130.5

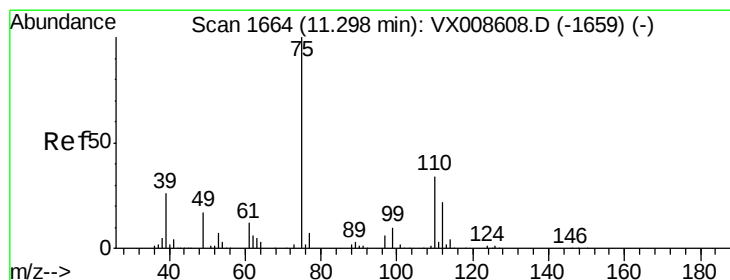
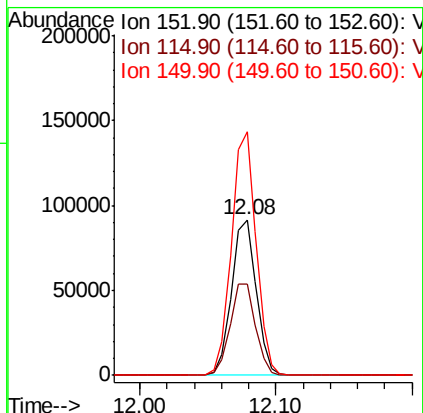
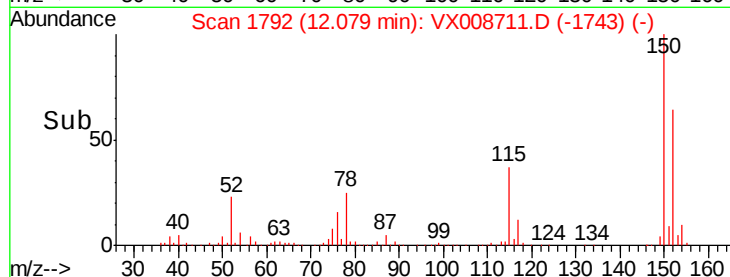
150 156.5 0.0 348.8



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: 21.654 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008711.D

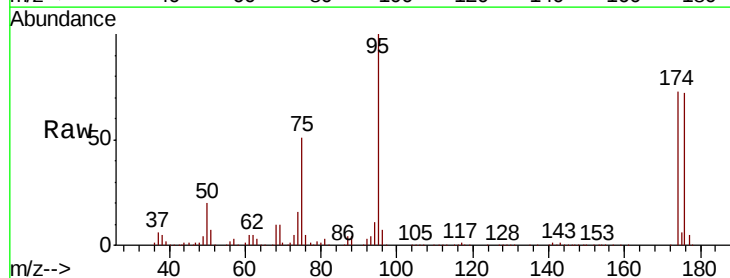
Acq: 06 Apr 2019 11:35

Tgt Ion: 75 Resp: 68552

Ion Ratio Lower Upper

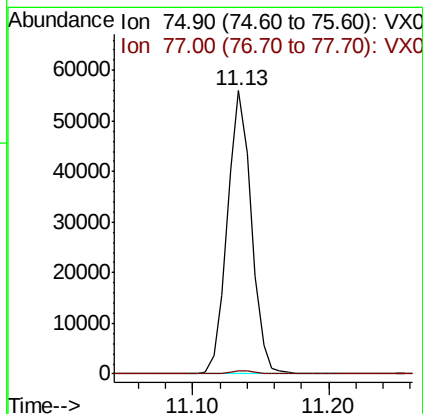
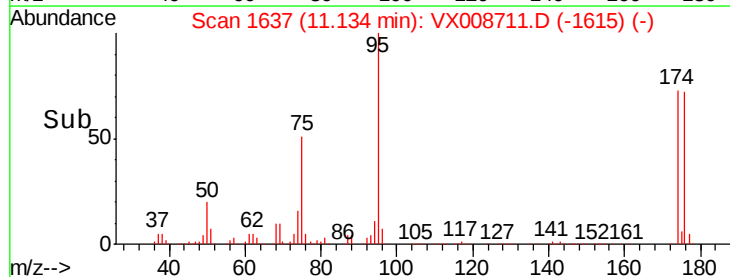
75 100

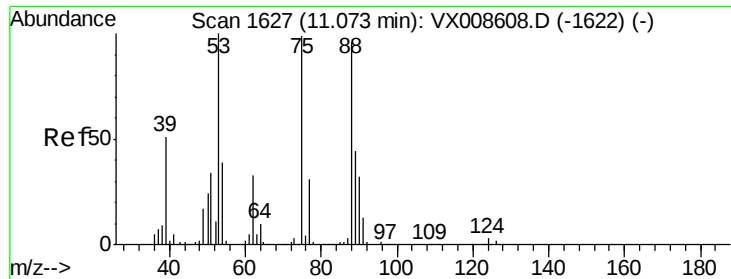
77 1.1 22.3 66.8#



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: 59.690 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008711.D

Acq: 06 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

0167-FIELD-BLANK

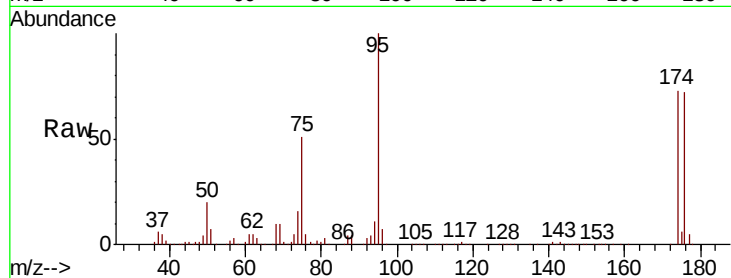
Tot Ion: 75 Resp: 68552

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

