

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091818\
 Data File : VX004692.D
 Acq On : 19 Sep 2018 07:22
 Operator : JC/MD
 Sample : J4947-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 19 12:21:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	259148	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	350715	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	225443	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	160522	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
35) Dibromofluoromethane	5.50	113	148359	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
50) Toluene-d8	8.71	98	486441	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	
62) 4-Bromofluorobenzene	11.14	95	171722	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

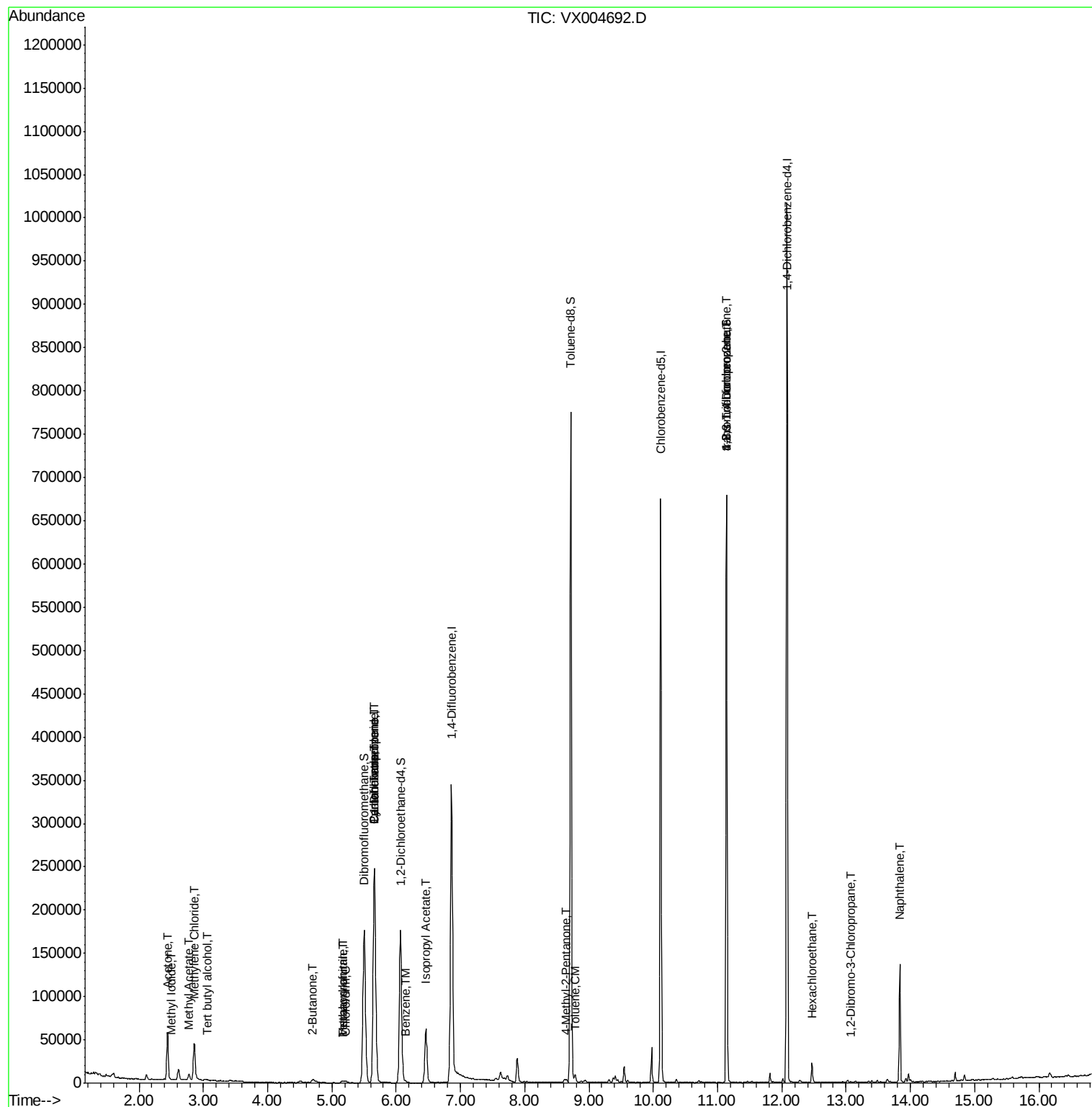
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	383	Below Cal	#	73
10) Methyl Iodide	2.50	142	49	4.269	ug/l #	41
11) Tert butyl alcohol	3.06	59	794	0.996	ug/l	95
16) Acetone	2.44	43	56090	34.392	ug/l	97
18) Methyl Acetate	2.78	43	8353	1.826	ug/l	99
20) Methylene Chloride	2.85	84	21086	6.303	ug/l	95
25) 2-Butanone	4.70	43	7812	3.010	ug/l	96
29) Tetrahydrofuran	5.17	42	1877	1.199	ug/l #	87
30) Chloroform	5.21	83	2452	0.444	ug/l #	81
31) Cyclohexane	5.65	56	3923	0.812	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16336	3.837	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21842	5.252	ug/l #	16
40) Benzene	6.15	78	2668	0.211	ug/l	93
41) Methacrylonitrile	5.17	41	653	0.245	ug/l #	44
43) Isopropyl Acetate	6.46	43	77511	12.051	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	1680	0.370	ug/l #	74
52) Toluene	8.79	92	2255	0.303	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	79214	17.465	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	79214	55.668	ug/l #	10
90) Hexachloroethane	12.47	117	800	0.374	ug/l #	3
92) 1,2-Dibromo-3-Chloropropan	13.07	75	325	0.318	ug/l #	1
95) Naphthalene	13.83	128	84418	5.485	ug/l	99

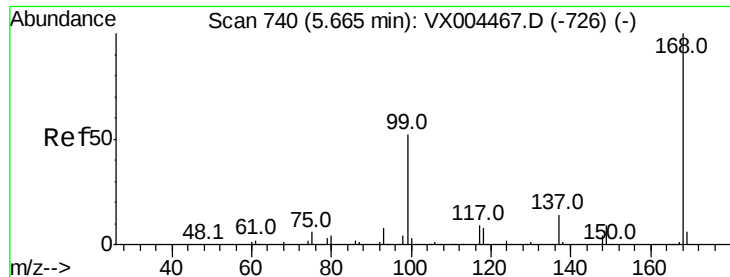
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091818\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

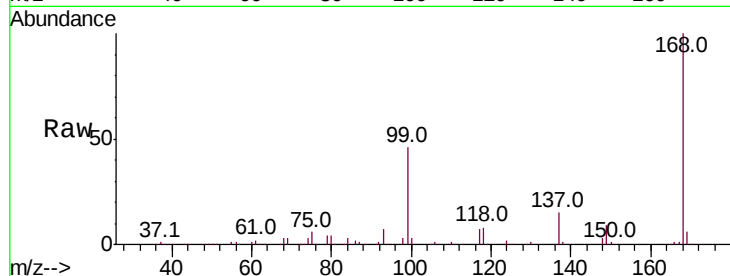
ClientSampleId :

Tot Ion:168 Resp: 259148

Ion Ratio Lower Upper

168 100

99 46.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

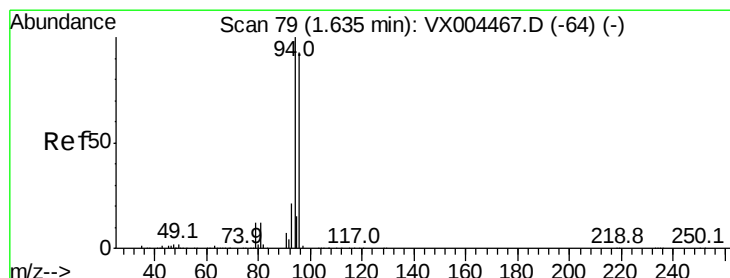
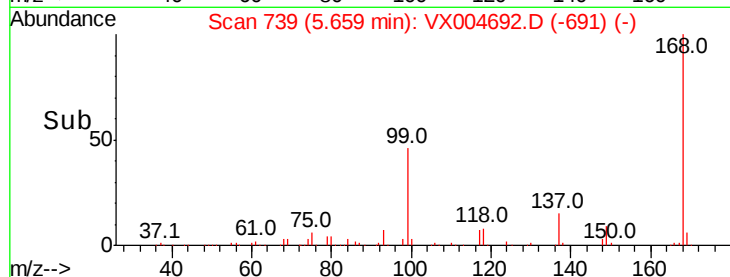
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX004692.D

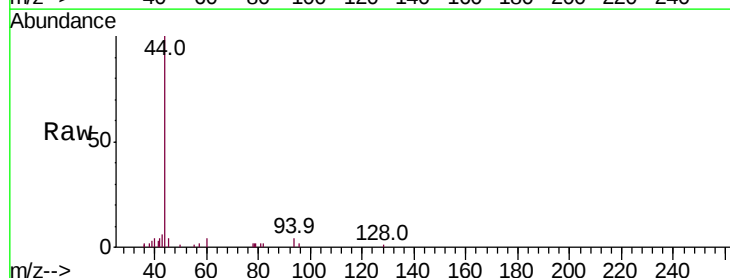
Acq: 19 Sep 2018 07:22

Tgt Ion: 94 Resp: 383

Ion Ratio Lower Upper

94 100

96 67.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

200

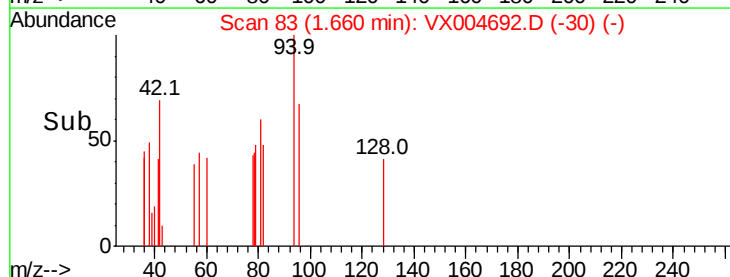
150

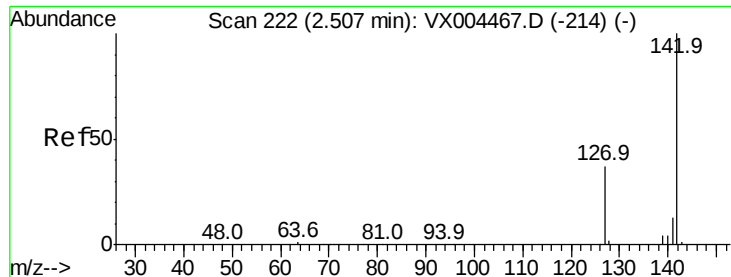
100

50

0

Time--> 1.60 1.65 1.70

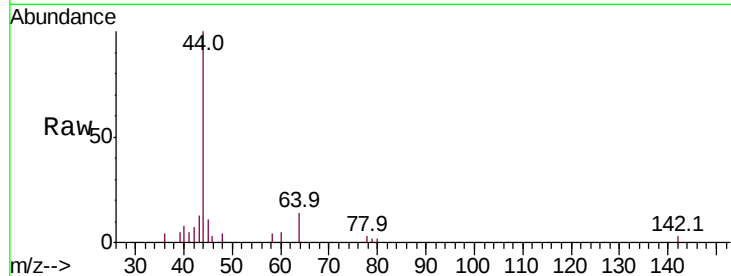




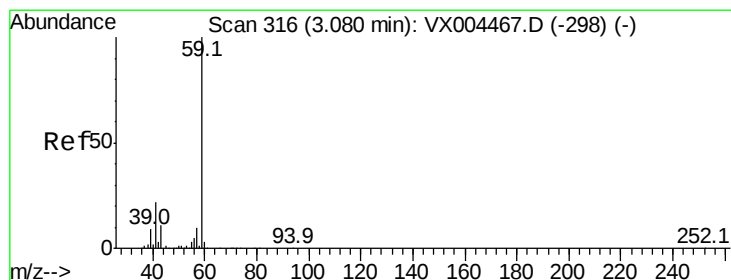
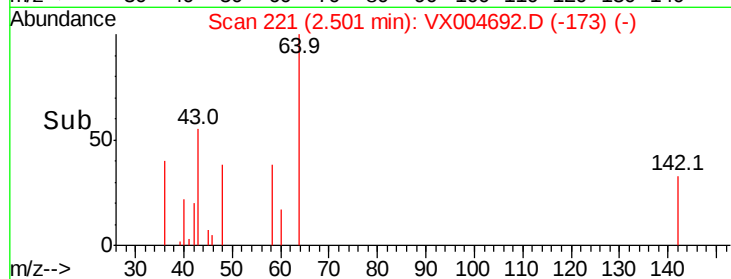
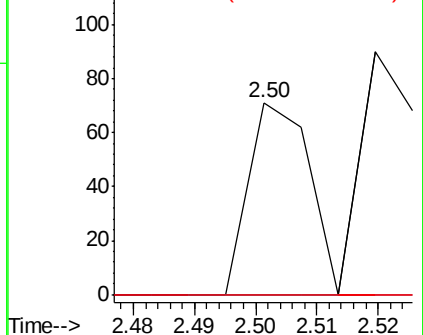
#10
Methyl Iodide
Concen: 4.269 ug/l
RT: 2.50 min Scan# 221
Delta R.T. -0.01 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 49
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

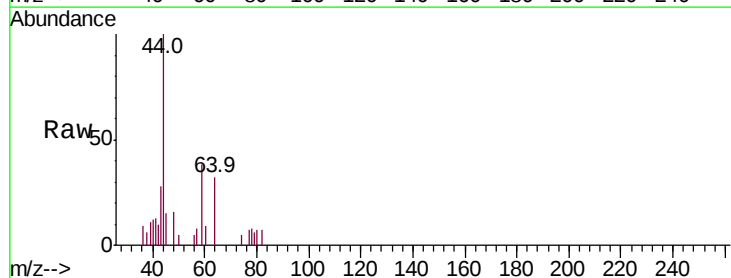


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

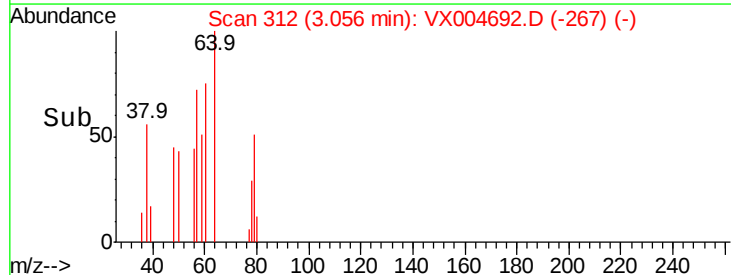
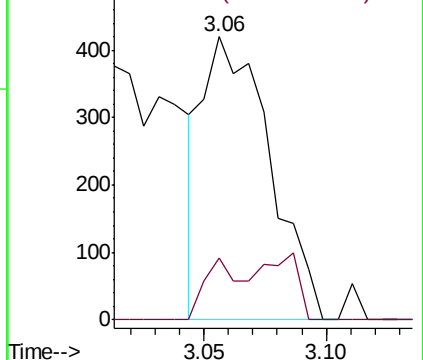


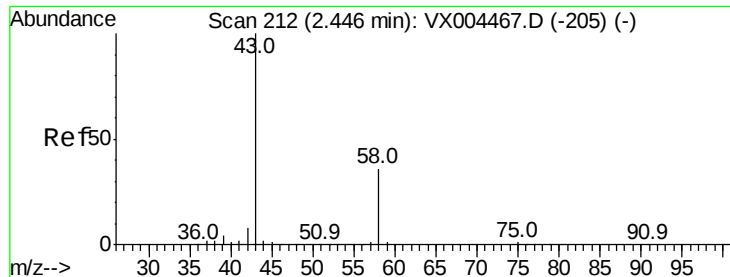
#11
Tert butyl alcohol
Concen: 0.996 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Tgt Ion: 59 Resp: 794
Ion Ratio Lower Upper
59 100
57 12.2 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

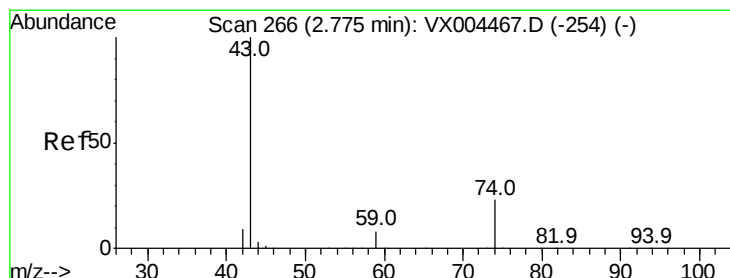
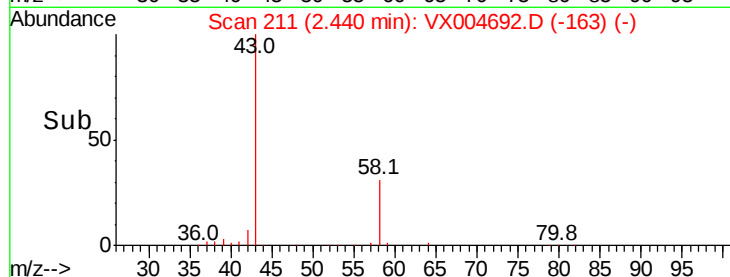
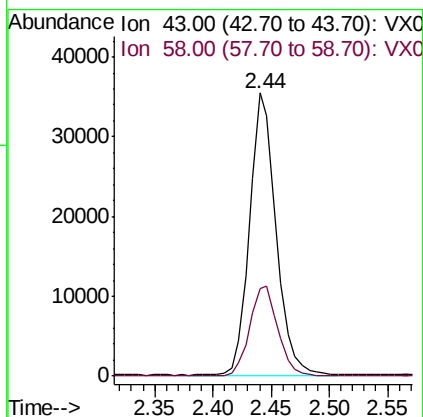
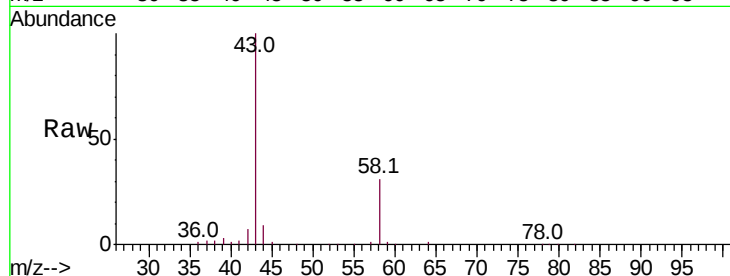




#16
Acetone
Concen: 34.392 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

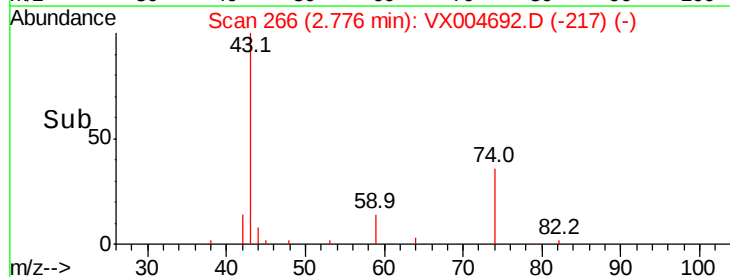
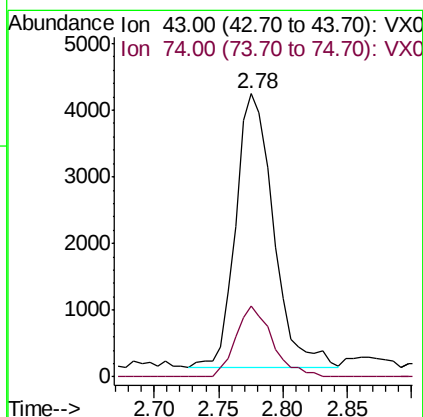
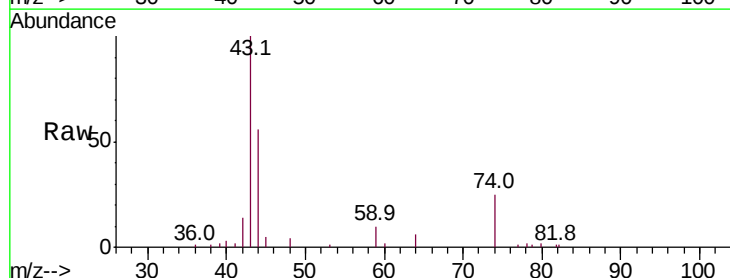
Instrument :
MSVOA_X
ClientSampleId :

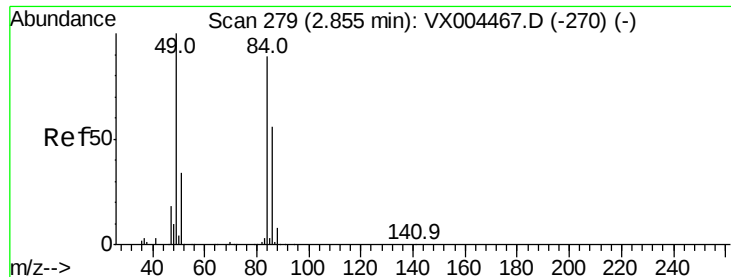
Tot Ion: 43 Resp: 56090
Ion Ratio Lower Upper
43 100
58 31.1 26.2 39.4



#18
Methyl Acetate
Concen: 1.826 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Tgt Ion: 43 Resp: 8353
Ion Ratio Lower Upper
43 100
74 25.0 19.4 29.2

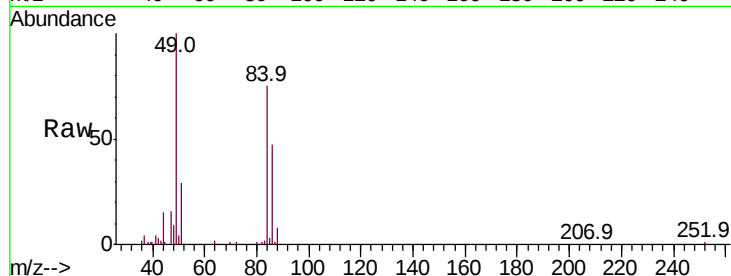




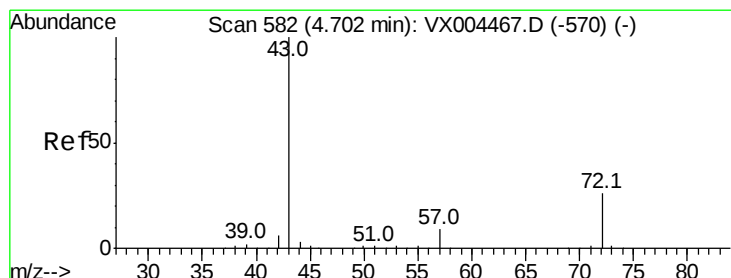
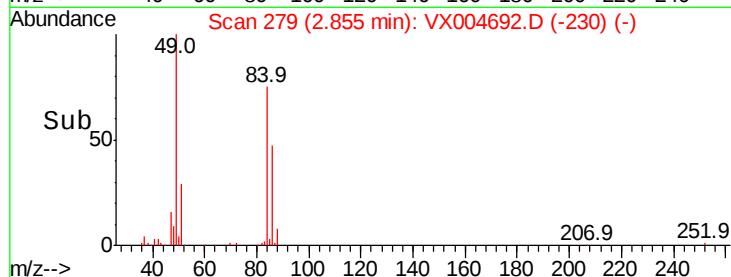
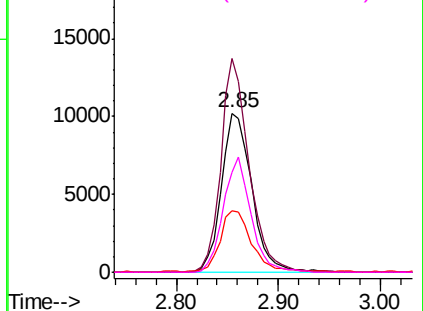
#20
Methvlene Chloride
Concen: 6.303 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 21086
Ion Ratio Lower Upper
84 100
49 134.1 101.2 151.8
51 37.8 29.5 44.3
86 62.9 52.3 78.5

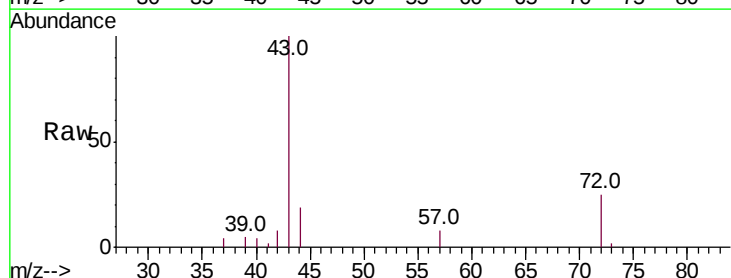


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

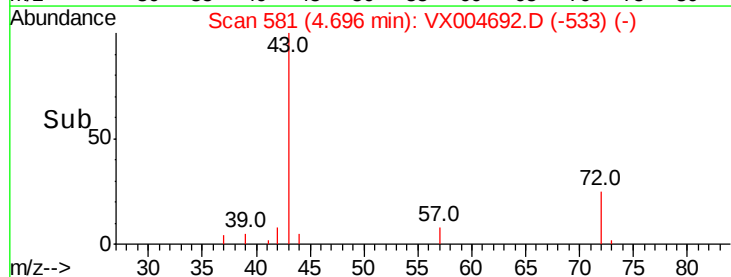
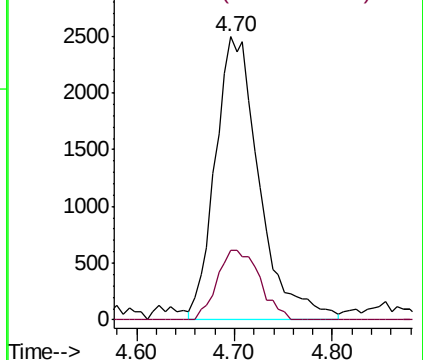


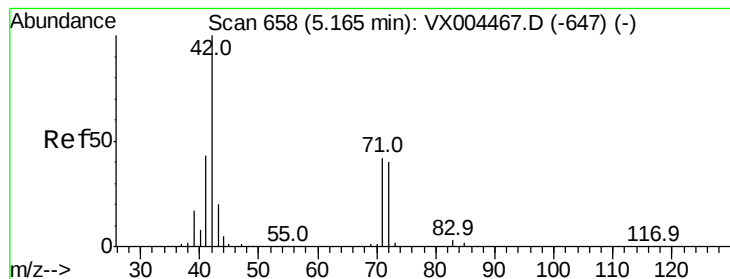
#25
2-Butanone
Concen: 3.010 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Tgt Ion: 43 Resp: 7812
Ion Ratio Lower Upper
43 100
72 25.4 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.199 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

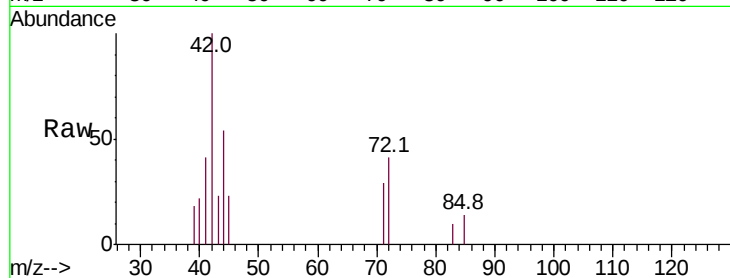
Tot Ion: 42 Resp: 1877

Ion Ratio Lower Upper

42 100

72 39.7 37.4 56.0

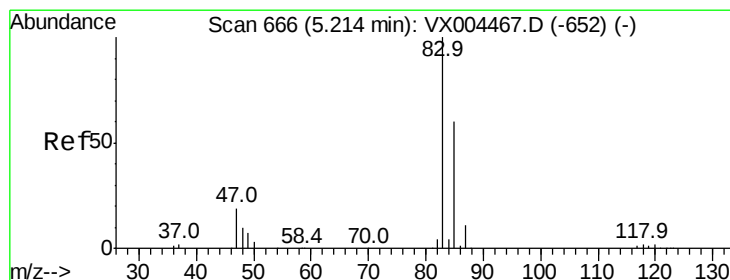
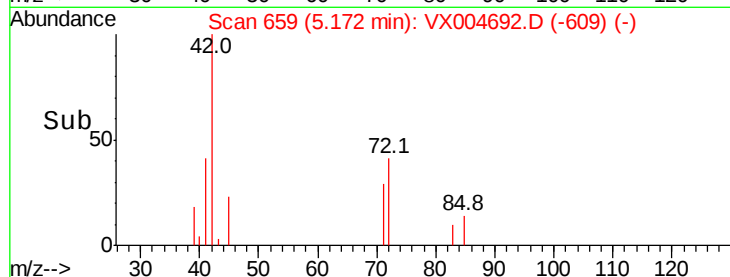
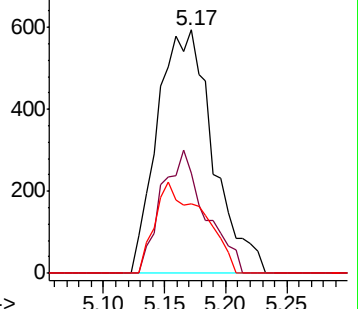
71 32.4 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.444 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX004692.D

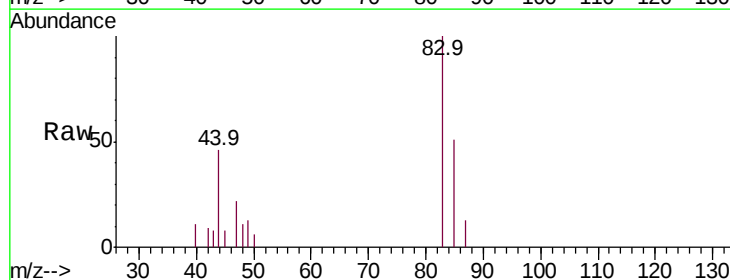
Acq: 19 Sep 2018 07:22

Tgt Ion: 83 Resp: 2452

Ion Ratio Lower Upper

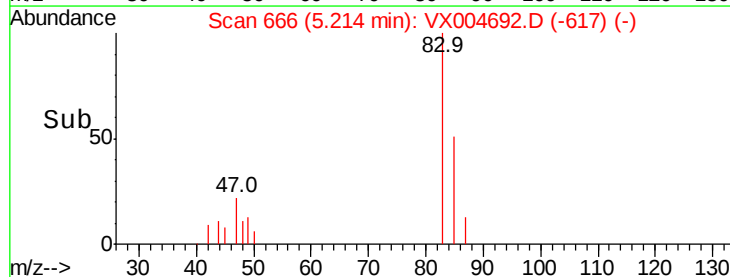
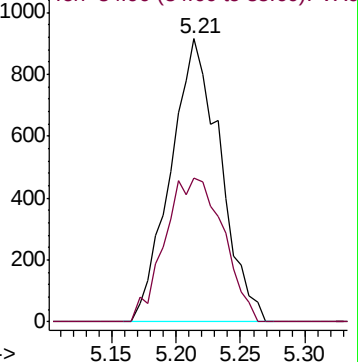
83 100

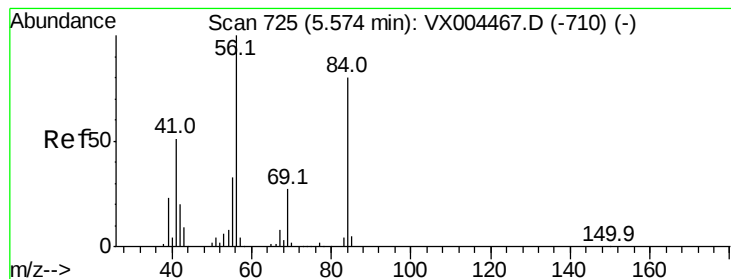
85 50.8 52.6 79.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 0.812 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

ClientSampled :

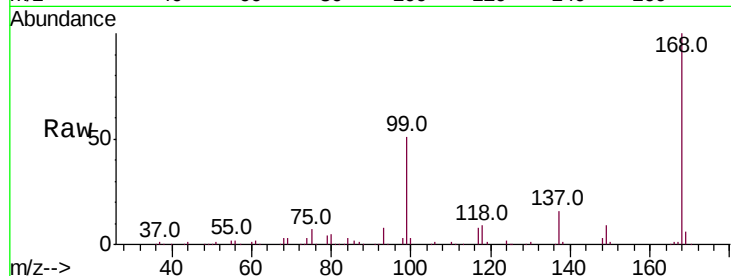
Tot Ion: 56 Resp: 3923

Ion Ratio Lower Upper

56 100

69 175.3 25.4 38.2#

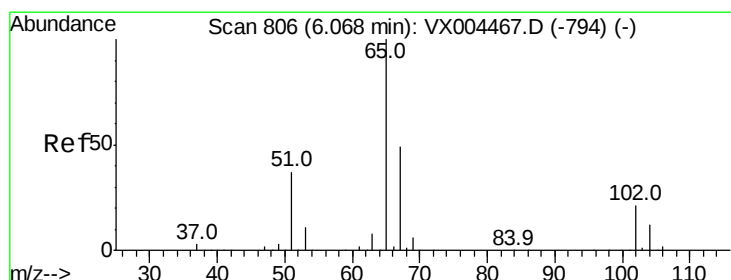
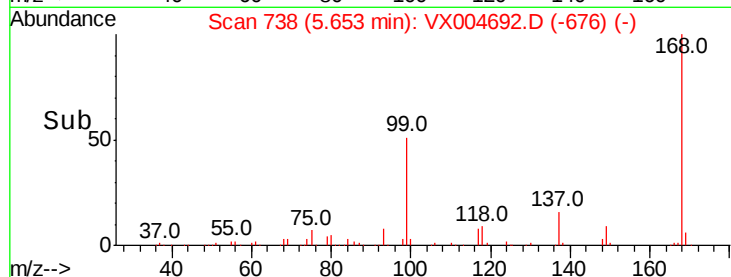
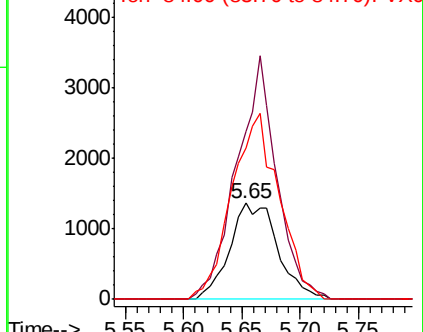
84 156.9 71.4 107.2#



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: 48.039 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004692.D

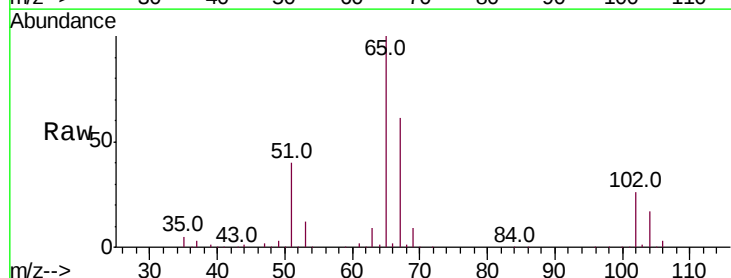
Acq: 19 Sep 2018 07:22

Tgt Ion: 65 Resp: 160522

Ion Ratio Lower Upper

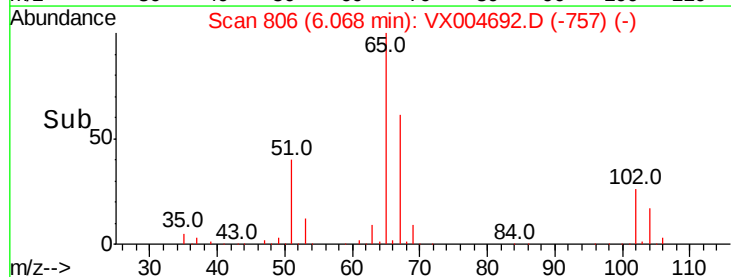
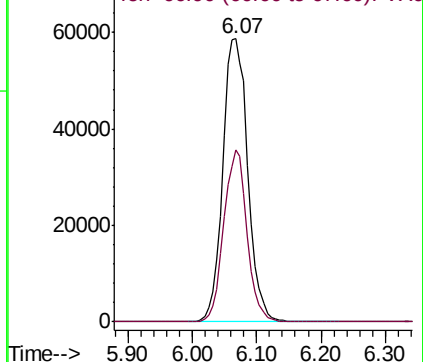
65 100

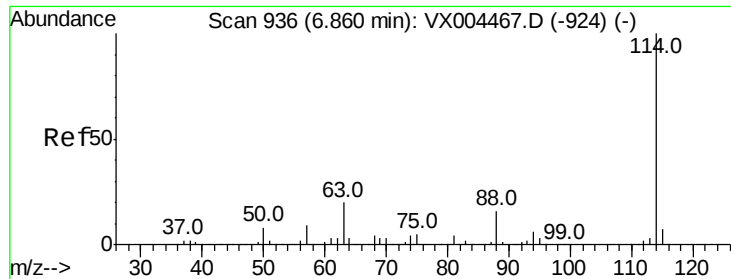
67 56.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

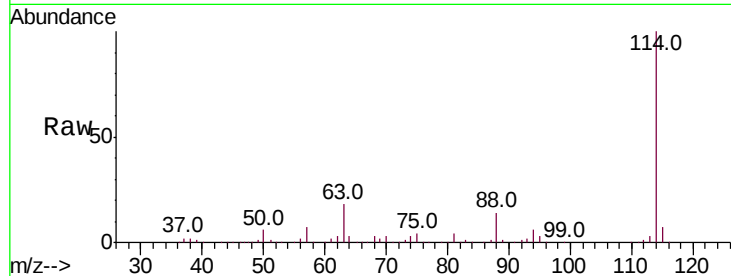




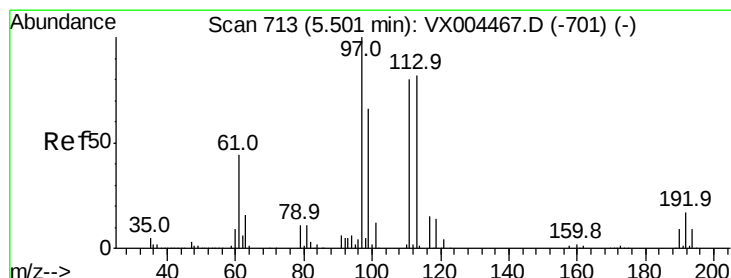
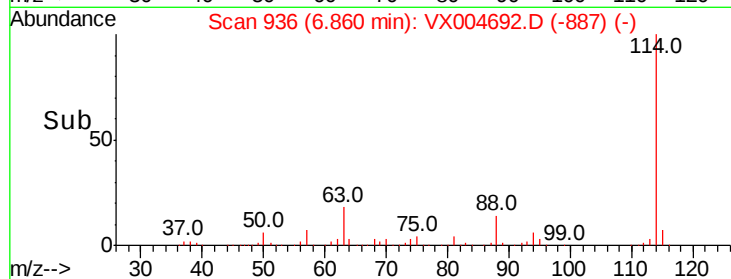
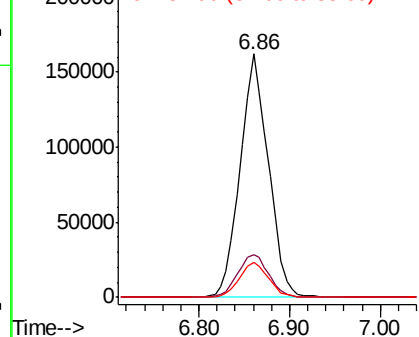
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004692.D
 Acq: 19 Sep 2018 07:22

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	39.0
88	14.3	0.0	30.4

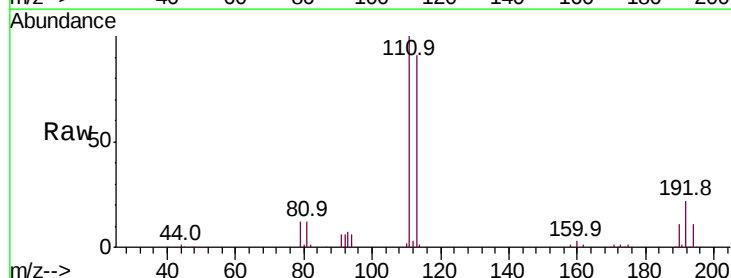


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

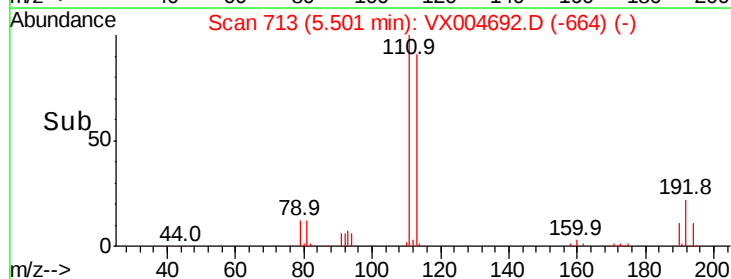
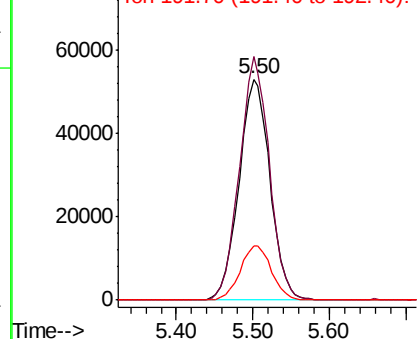


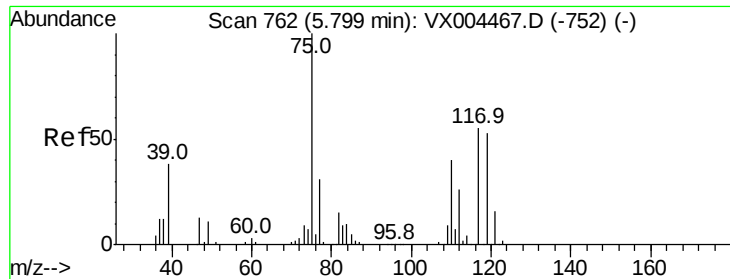
#35
 Dibromofluoromethane
 Concen: 46.227 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004692.D
 Acq: 19 Sep 2018 07:22

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.6	82.4	123.6
192	24.8	19.4	29.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.837 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

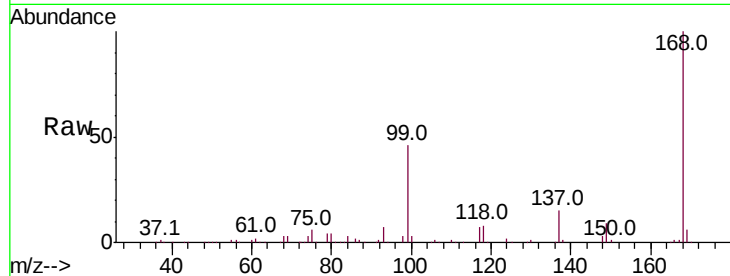
Tot Ion: 75 Resp: 16336

Ion Ratio Lower Upper

75 100

110 8.9 18.0 54.0#

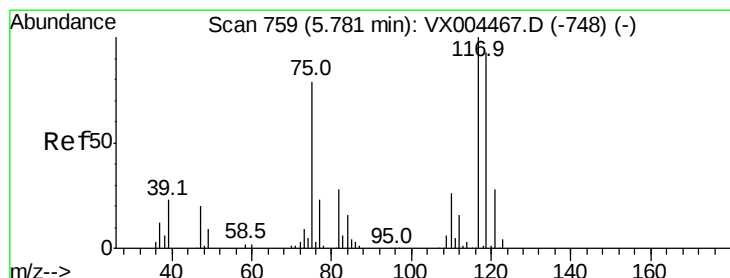
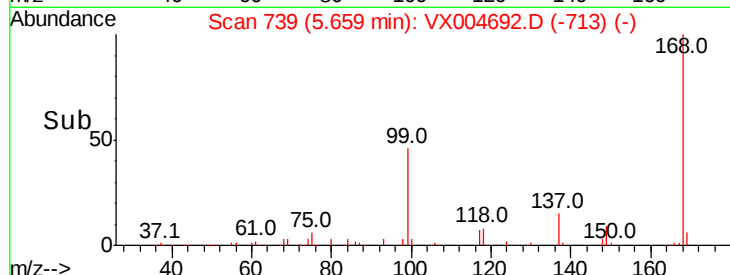
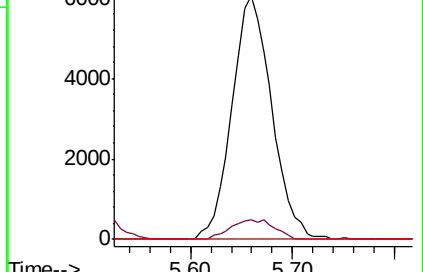
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX004467.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX004467.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX004467.D (-752) (-)



#38

Carbon Tetrachloride

Concen: 5.252 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

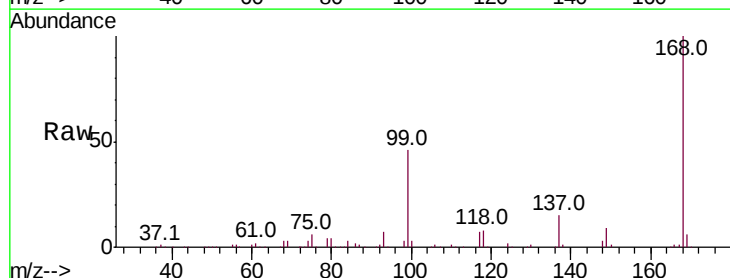
Tgt Ion: 117 Resp: 21842

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

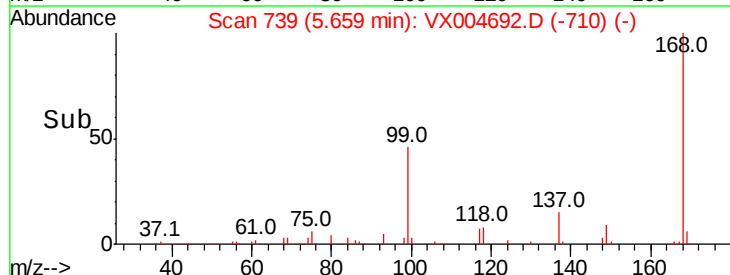
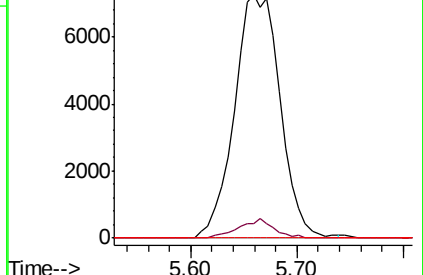
121 0.0 24.9 37.3#

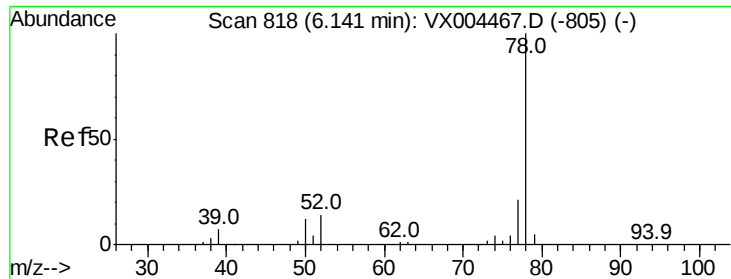


Abundance Ion 116.80 (116.50 to 117.50): VX004467.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX004467.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX004467.D (-748) (-)





#40

Benzene

Concen: 0.211 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

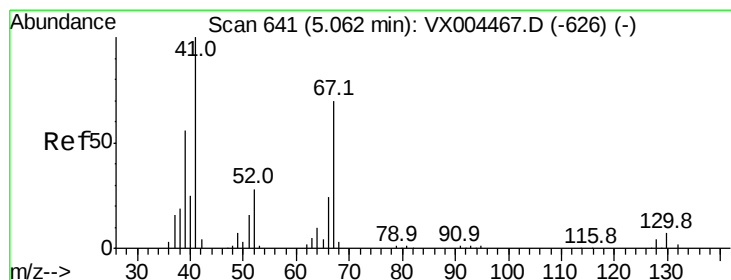
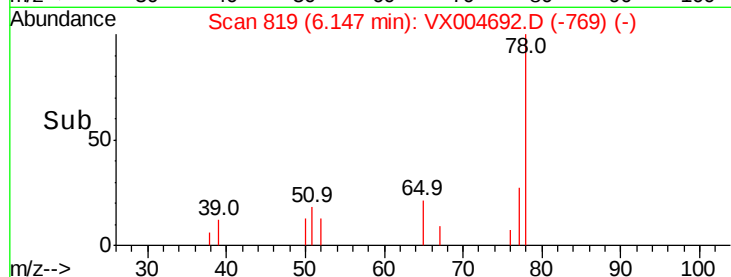
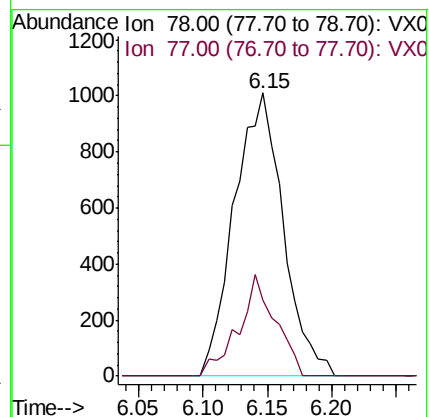
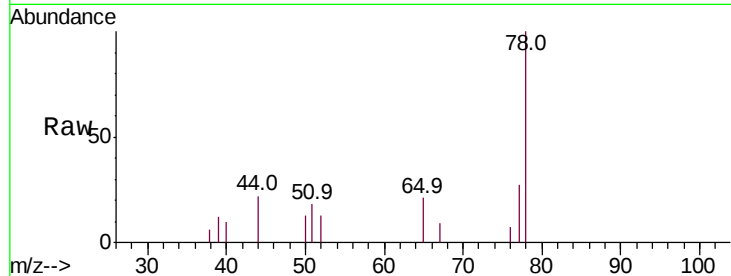
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 2668

Ion Ratio Lower Upper

78 100

77 27.0 19.0 28.4



#41

Methacrylonitrile

Concen: 0.245 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Tgt Ion: 41 Resp: 653

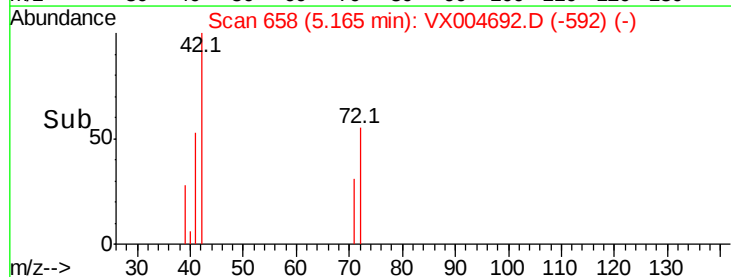
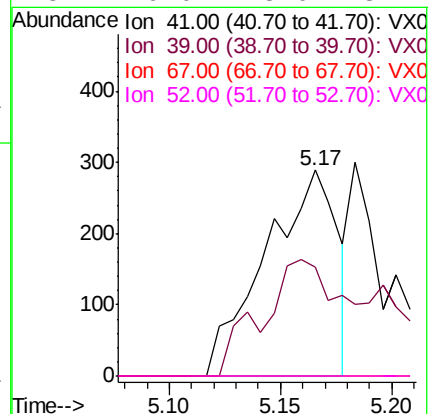
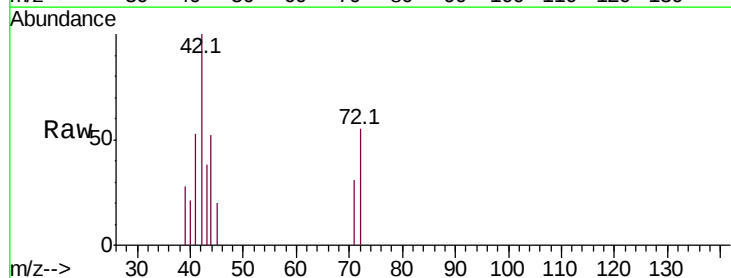
Ion Ratio Lower Upper

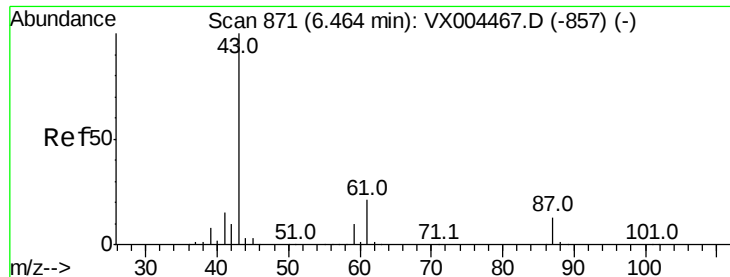
41 100

39 61.7 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#





#43

Isopropyl Acetate

Concen: 12.051 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.00 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

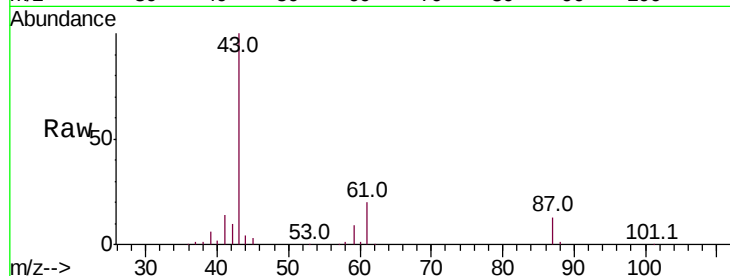
Tot Ion: 43 Resp: 77511

Ion Ratio Lower Upper

43 100

61 20.8 17.0 25.4

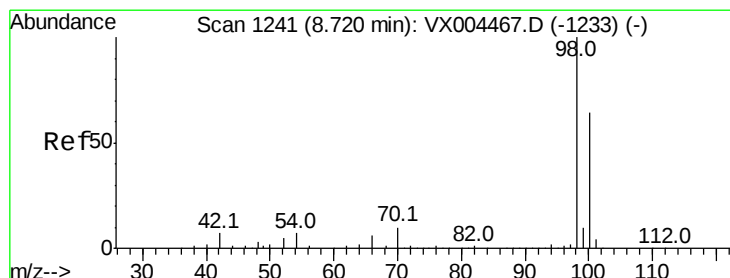
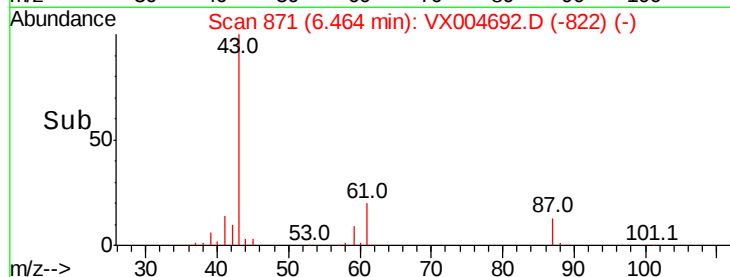
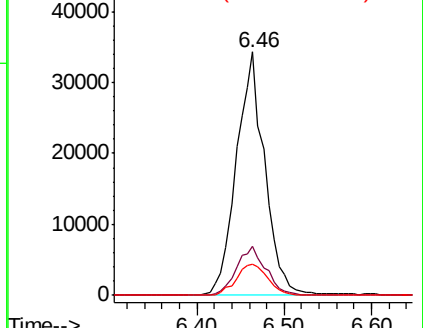
87 14.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 45.197 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004692.D

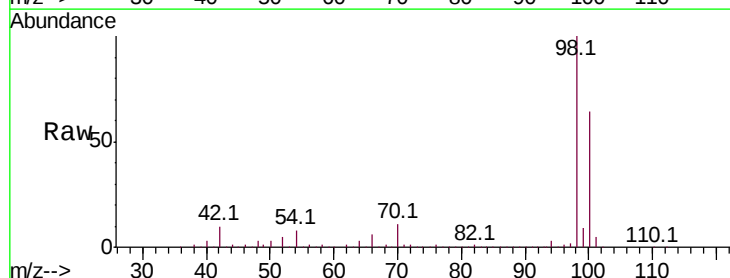
Acq: 19 Sep 2018 07:22

Tgt Ion: 98 Resp: 486441

Ion Ratio Lower Upper

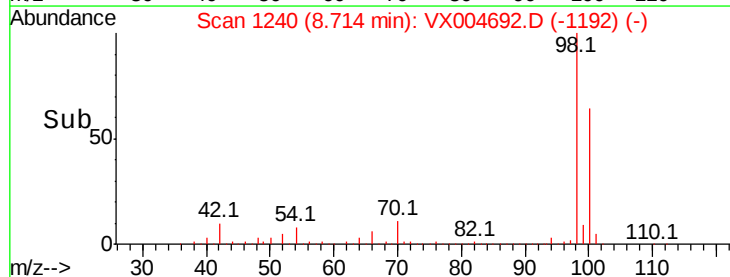
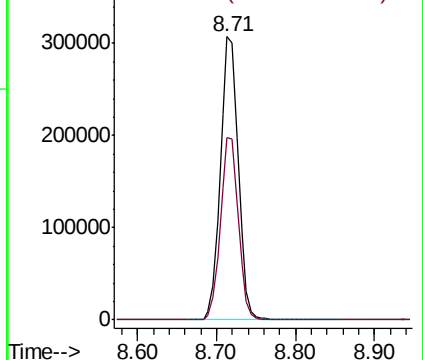
98 100

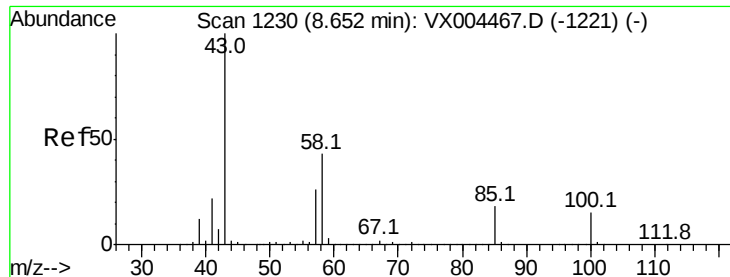
100 64.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.370 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

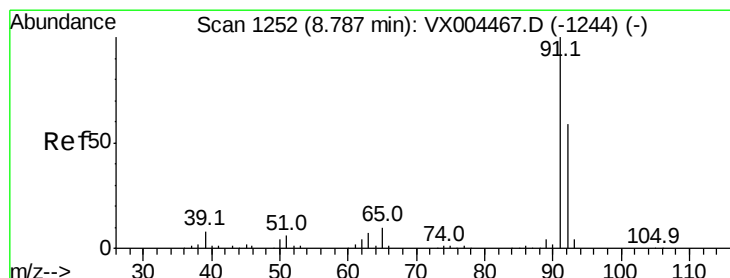
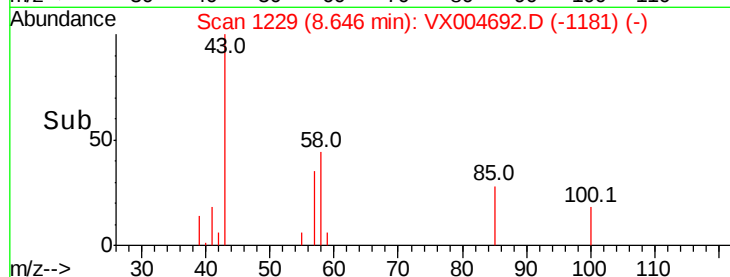
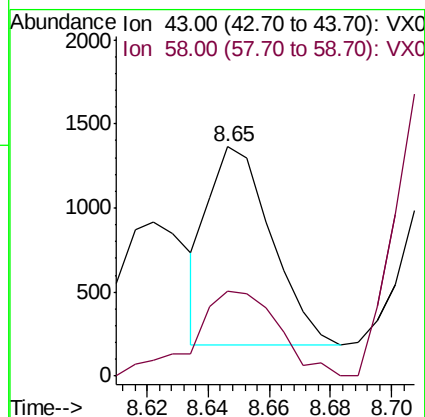
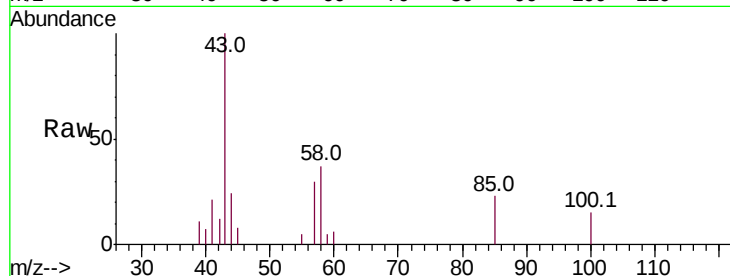
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1680

Ion Ratio Lower Upper

43 100

58 58.0 33.1 49.7#



#52

Toluene

Concen: 0.303 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX004692.D

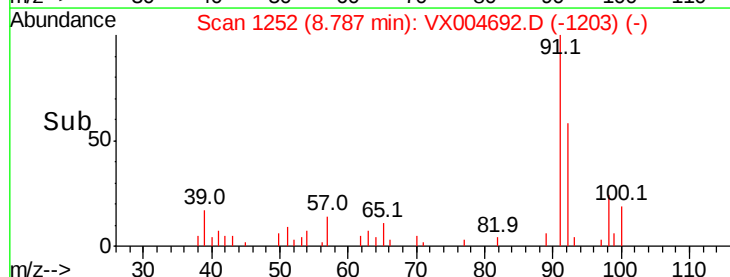
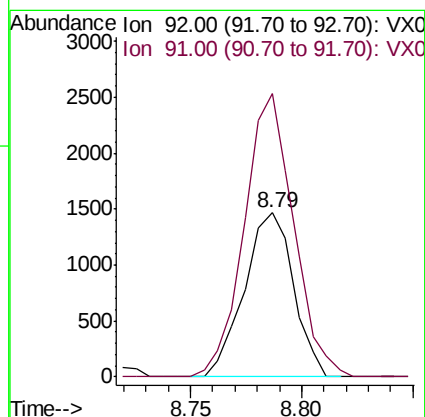
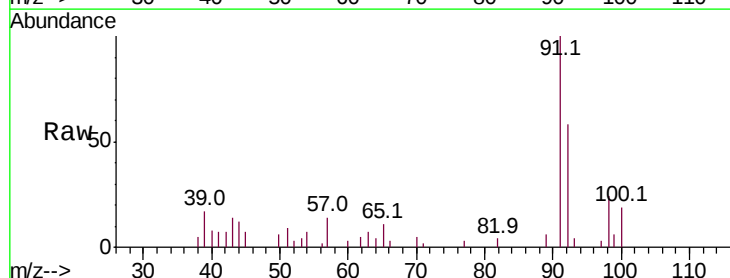
Acq: 19 Sep 2018 07:22

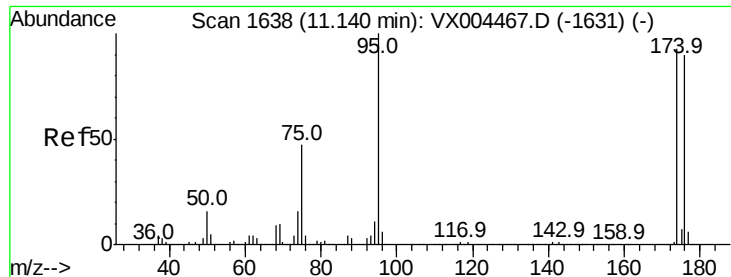
Tgt Ion: 92 Resp: 2255

Ion Ratio Lower Upper

92 100

91 173.2 136.4 204.6

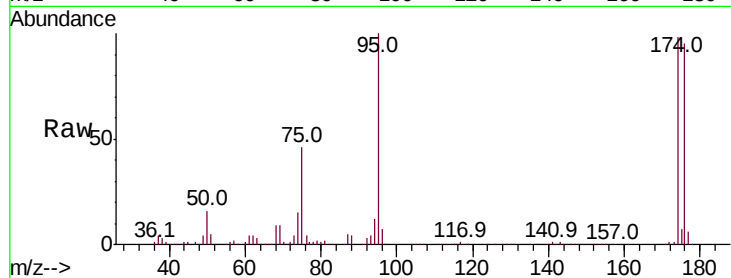




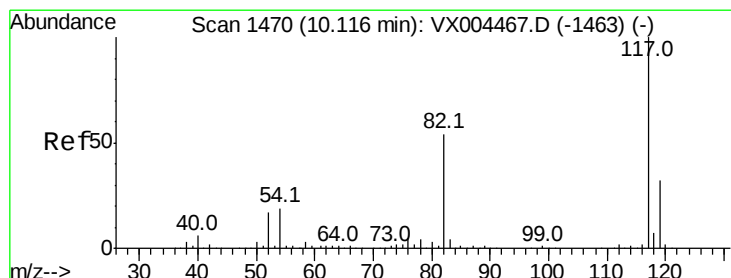
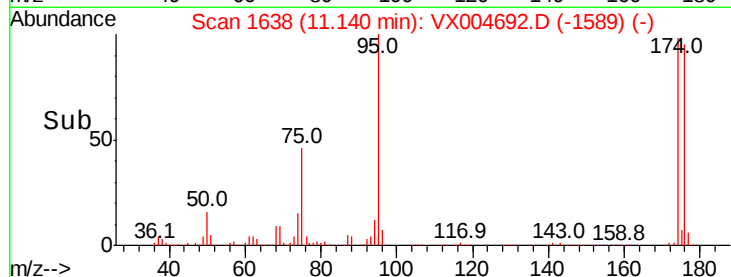
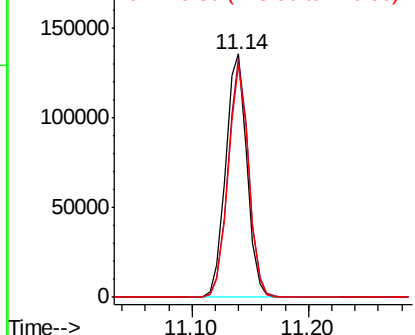
#62
4-Bromofluorobenzene
Concen: 44.698 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 171722
Ion Ratio Lower Upper
95 100
174 95.3 0.0 185.2
176 92.0 0.0 178.6

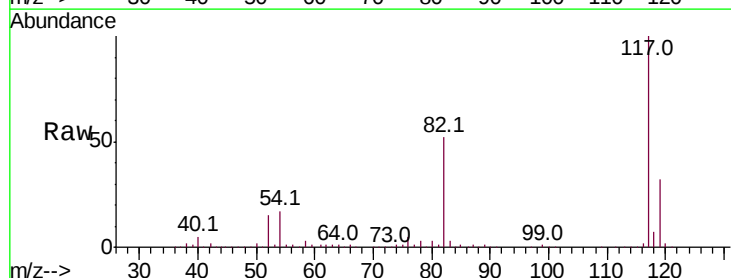


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

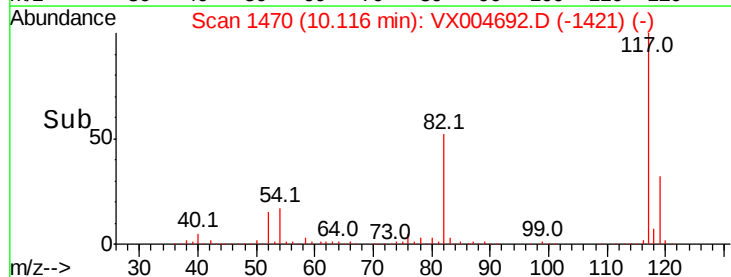
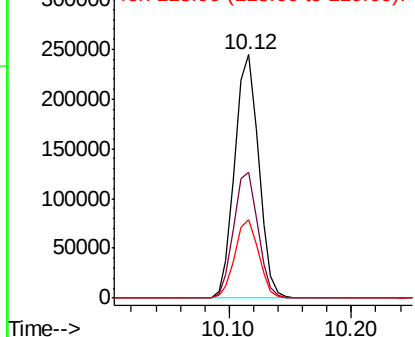


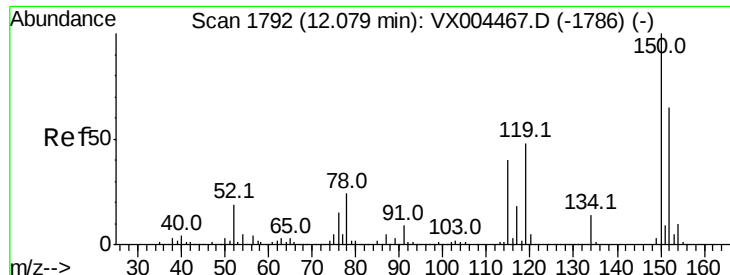
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Tgt Ion: 117 Resp: 330834
Ion Ratio Lower Upper
117 100
82 51.6 47.8 71.6
119 32.2 29.3 43.9



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



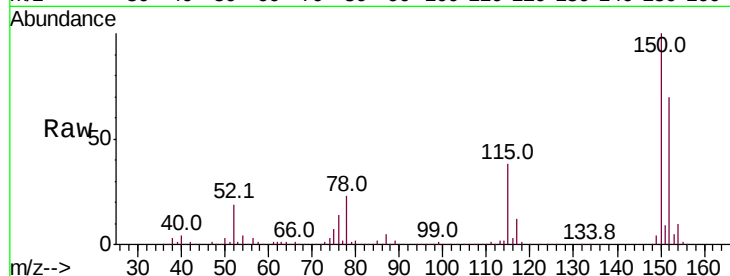


#72

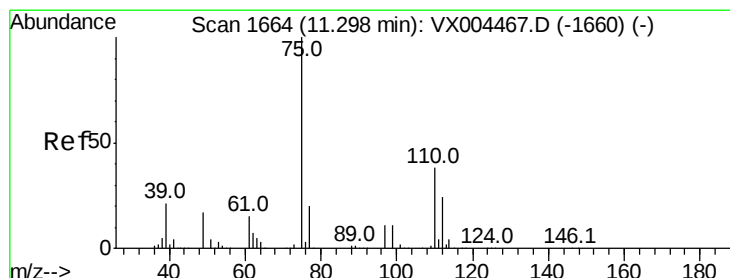
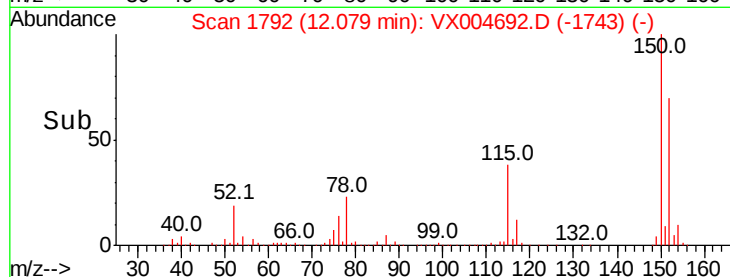
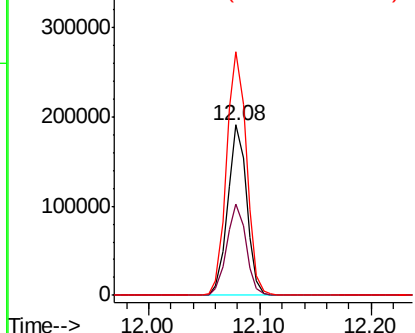
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 225443
Ion Ratio Lower Upper
152 100
115 54.3 39.0 117.0
150 150.2 0.0 351.0



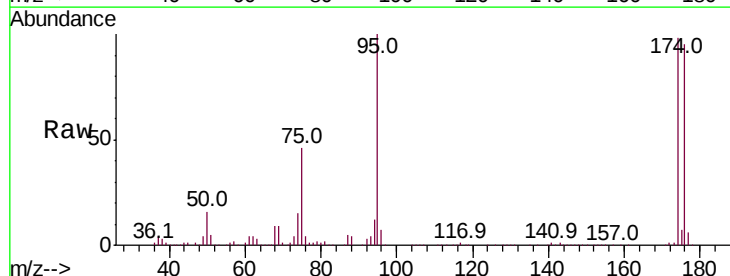
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



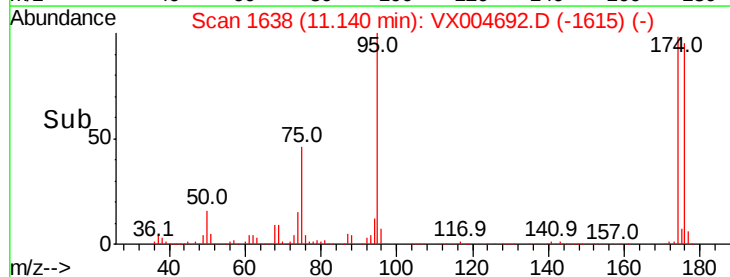
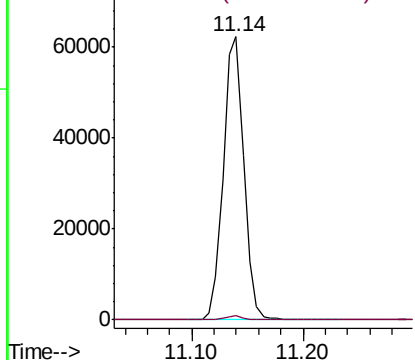
#76

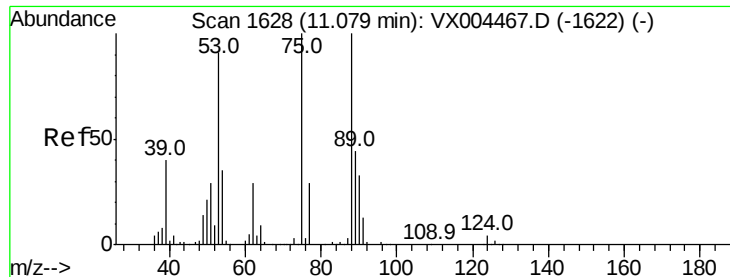
1,2,3-Trichloropropane
Concen: 17.465 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX004692.D
Acq: 19 Sep 2018 07:22

Tgt Ion: 75 Resp: 79214
Ion Ratio Lower Upper
75 100
77 1.3 20.2 60.6#



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: 55.668 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

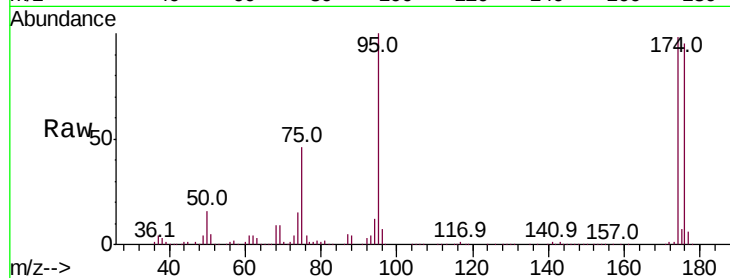
Tot Ion: 75 Resp: 79214

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

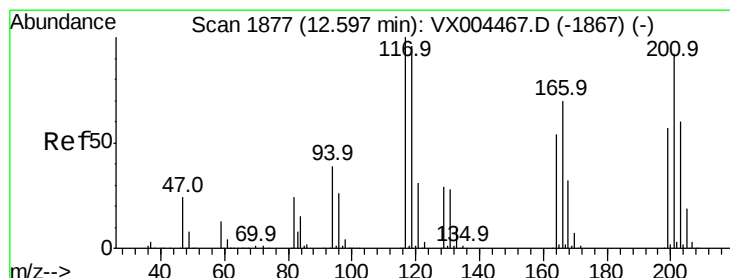
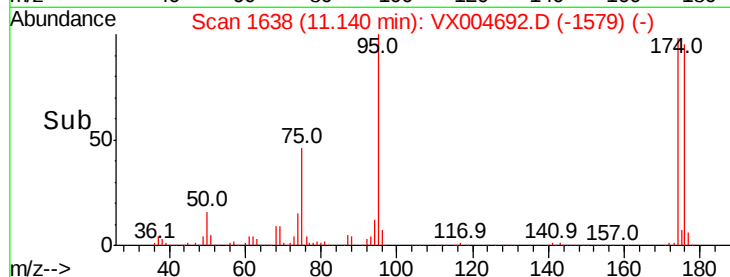
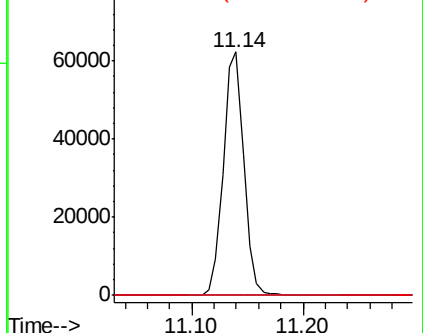
89 0.0 37.2 55.8#



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



#90

Hexachloroethane

Concen: 0.374 ug/l

RT: 12.47 min Scan# 1856

Delta R.T. -0.13 min

Lab File: VX004692.D

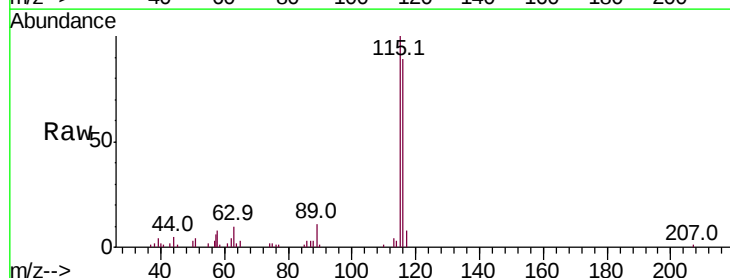
Acq: 19 Sep 2018 07:22

Tgt Ion: 117 Resp: 800

Ion Ratio Lower Upper

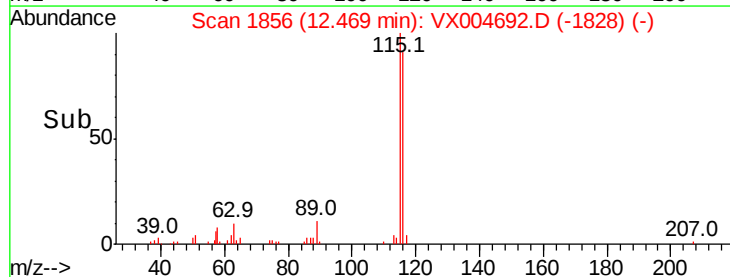
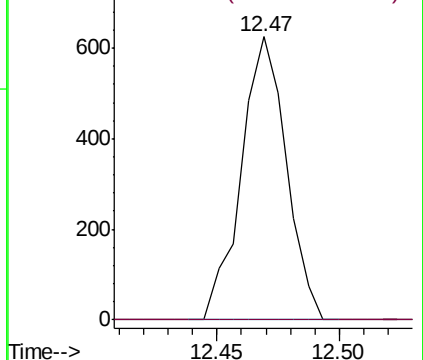
117 100

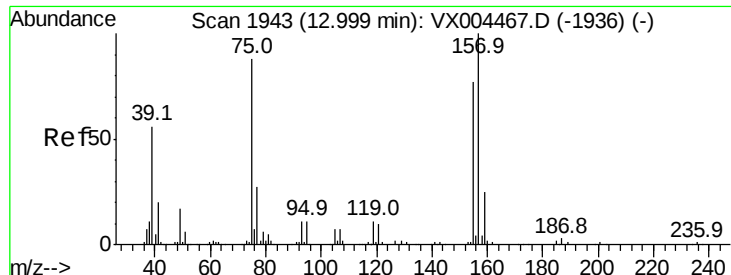
201 0.0 46.9 140.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.318 ug/l

RT: 13.07 min Scan# 1954

Delta R.T. 0.07 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

Instrument :

MSVOA_X

ClientSampleId :

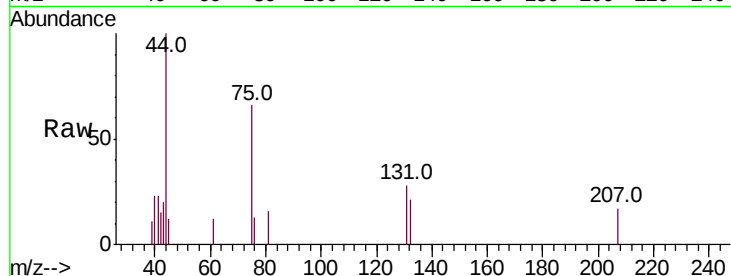
Tot Ion: 75 Resp: 325

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.2#

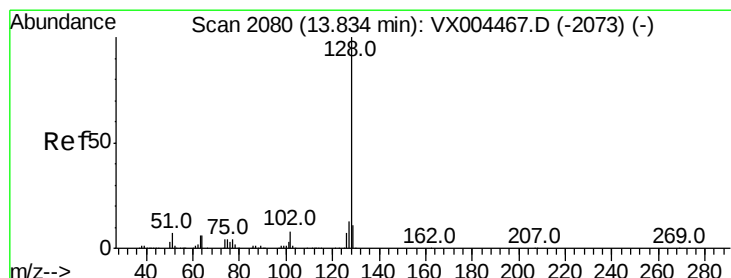
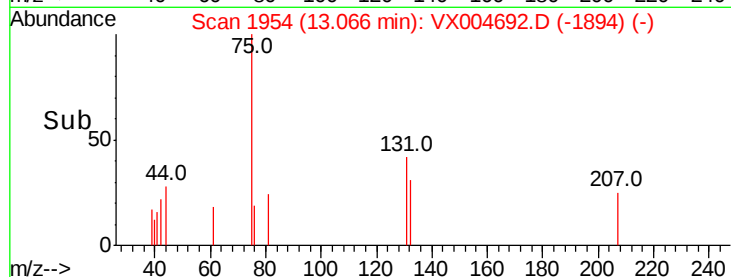
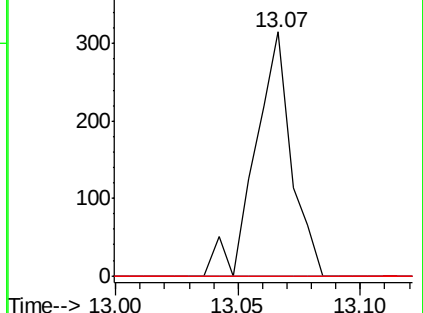
157 0.0 61.4 184.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 5.485 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004692.D

Acq: 19 Sep 2018 07:22

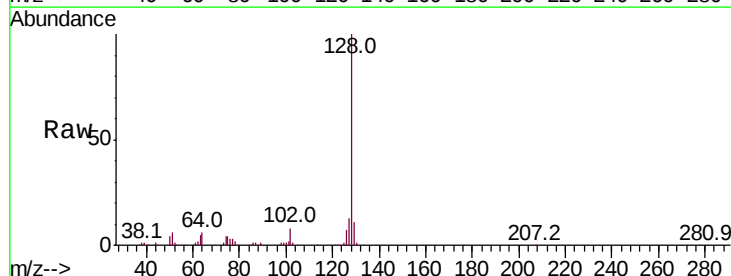
Tgt Ion: 128 Resp: 84418

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

129 10.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

