

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091918\
 Data File : VX004712.D
 Acq On : 19 Sep 2018 18:06
 Operator : JC/MD
 Sample : J4979-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 20 03:50:35 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	5.67	168	204996	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	319448	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	305003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168103	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	129319	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
35) Dibromofluoromethane	5.50	113	119082	40.74	ug/l	0.00
Spiked Amount			Recovery	=	81.48%	
50) Toluene-d8	8.72	98	444593	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	
62) 4-Bromofluorobenzene	11.14	95	159218	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	

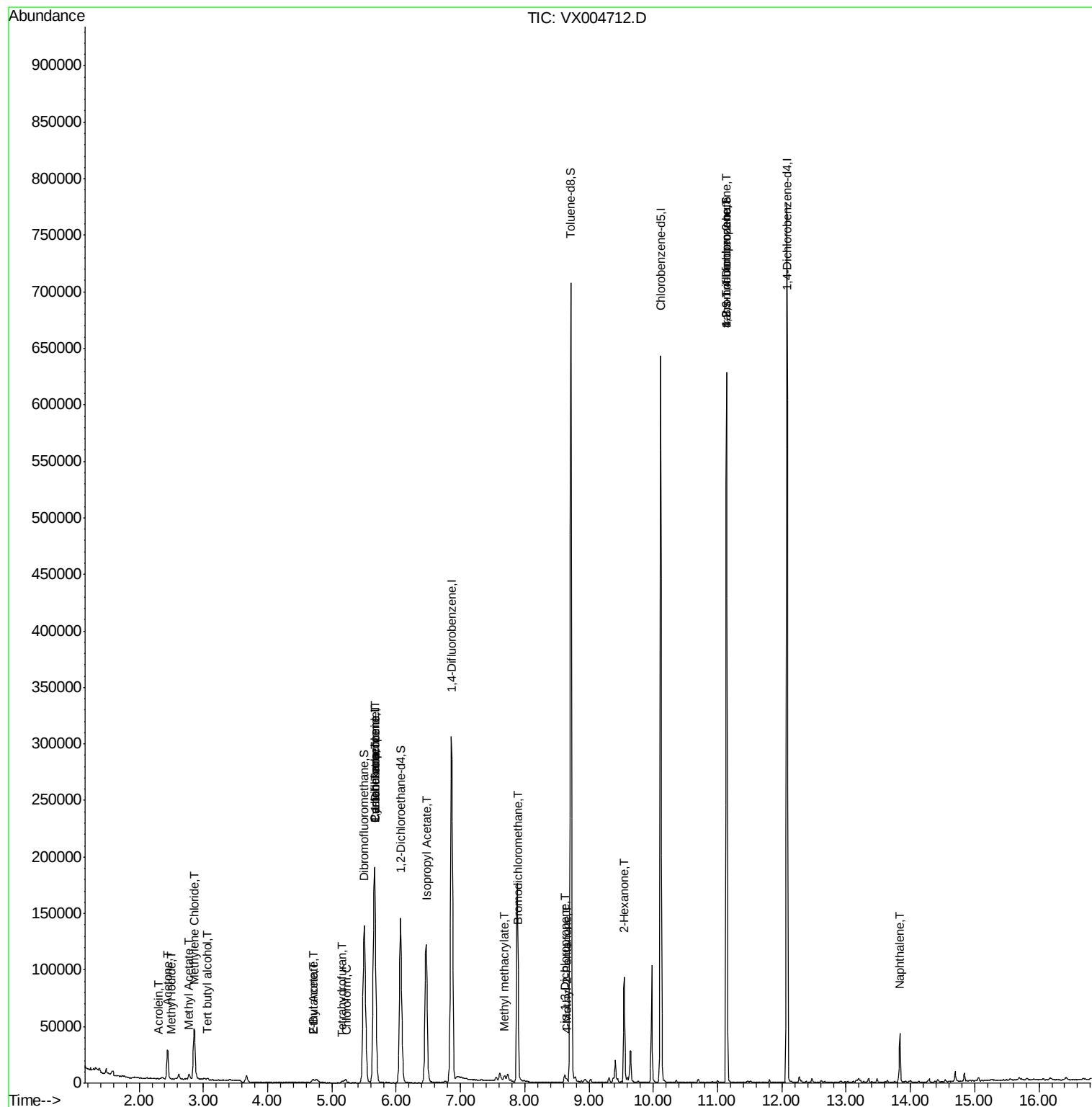
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	476	Below Cal	#	79
10) Methyl Iodide	2.51	142	215	4.33	ug/l #	54
11) Tert butyl alcohol	3.07	59	2977	4.72	ug/l	95
13) Acrolein	2.29	56	160	0.64	ug/l #	80
16) Acetone	2.44	43	27932	21.65	ug/l	100
18) Methyl Acetate	2.78	43	5673	1.57	ug/l	99
20) Methylene Chloride	2.85	84	22307	8.43	ug/l	99
25) 2-Butanone	4.71	43	6165	3.00	ug/l	99
29) Tetrahydrofuran	5.16	42	1444	1.17	ug/l #	62
30) Chloroform	5.22	83	2768	0.63	ug/l	87
31) Cyclohexane	5.66	56	3107	0.81	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	12836	3.31	ug/l #	49
37) Ethyl Acetate	4.71	43	6165	1.40	ug/l #	67
38) Carbon Tetrachloride	5.67	117	17567	4.64	ug/l #	15
43) Isopropyl Acetate	6.47	43	160859	27.46	ug/l	99
47) Bromodichloromethane	7.90	83	811	0.25	ug/l #	95
48) Methyl methacrylate	7.69	41	6330	2.18	ug/l #	20
51) 4-Methyl-2-Pentanone	8.65	43	1762	0.43	ug/l #	72
54) cis-1,3-Dichloropropene	8.62	75	1096	0.28	ug/l #	66
59) 2-Hexanone	9.55	43	9721	3.07	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	74024	21.89	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74024	69.76	ug/l #	10
95) Naphthalene	13.83	128	26974	2.35	ug/l	99

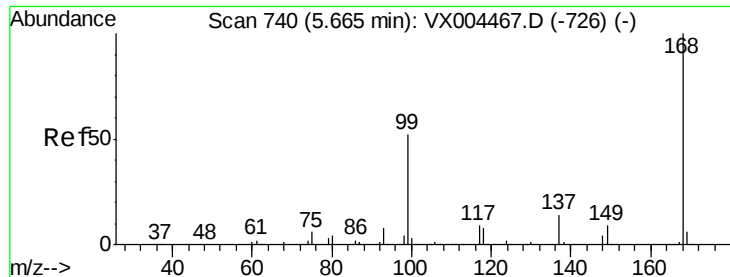
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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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: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :

MSVOA_X

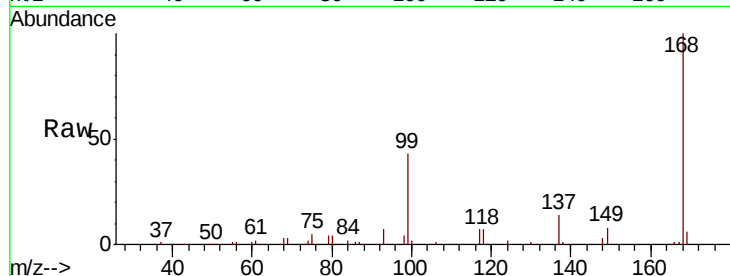
ClientSampleId :

Tot Ion:168 Resp: 204996

Ion Ratio Lower Upper

168 100

99 42.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

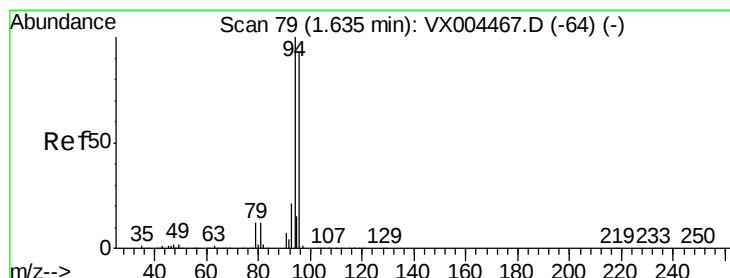
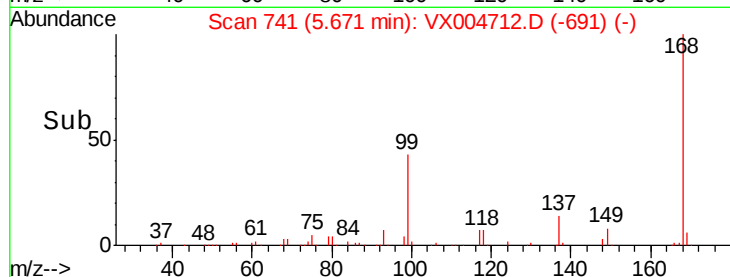
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004712.D

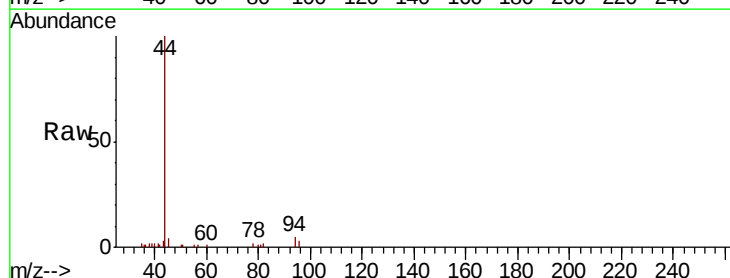
Acq: 19 Sep 2018 18:06

Tgt Ion: 94 Resp: 476

Ion Ratio Lower Upper

94 100

96 73.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

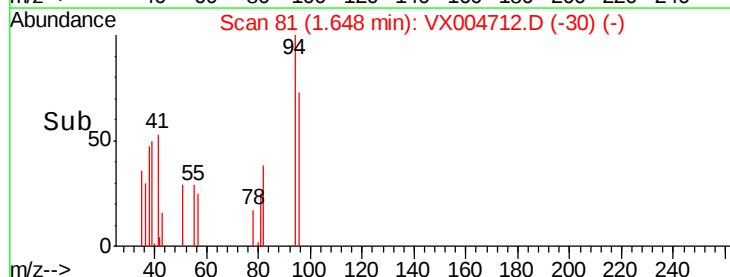
100

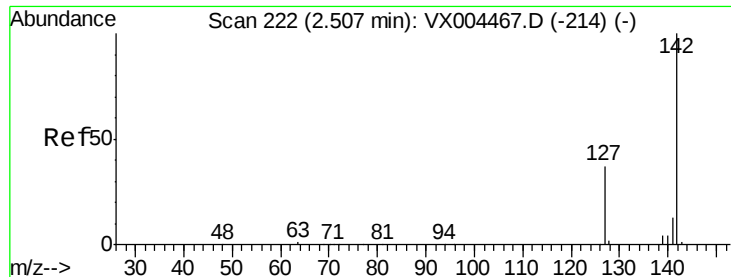
50

0

Time-->

1.65 1.70

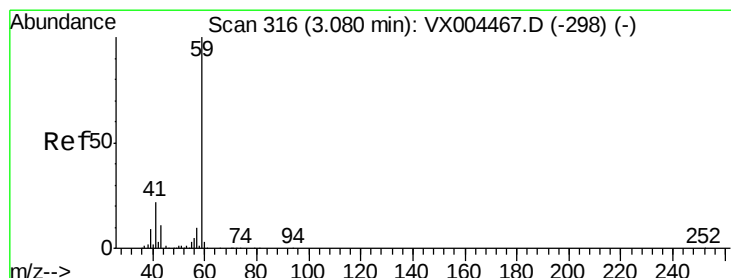
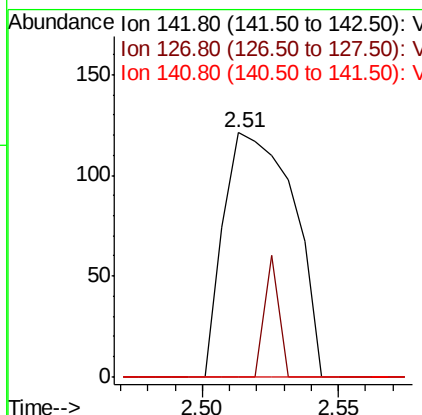
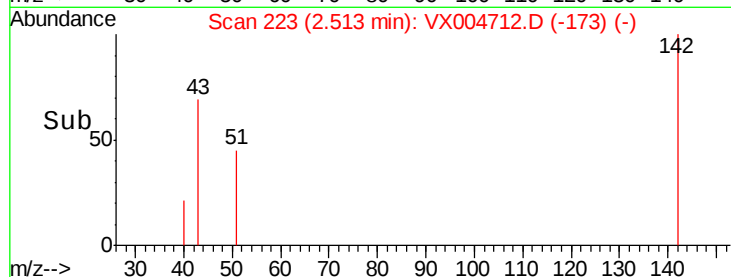
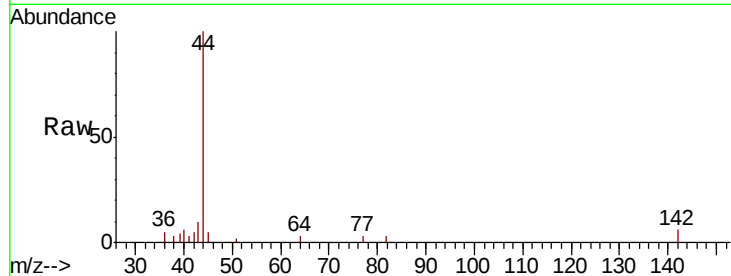




#10
Methvl Iodide
Concen: 4.33 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

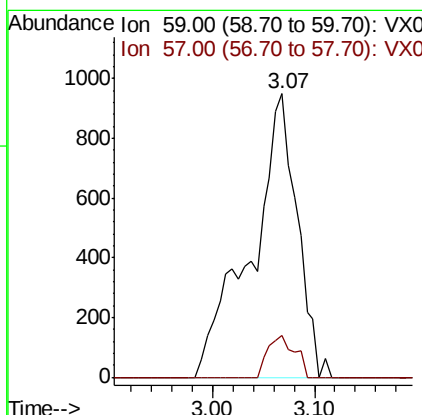
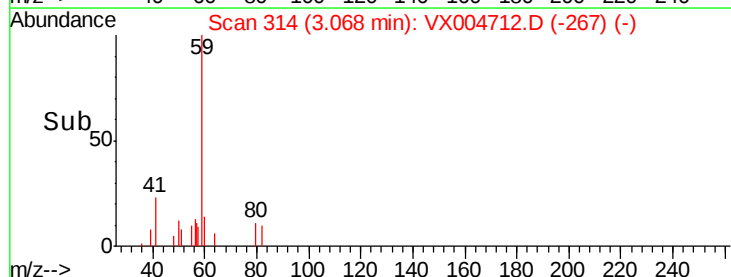
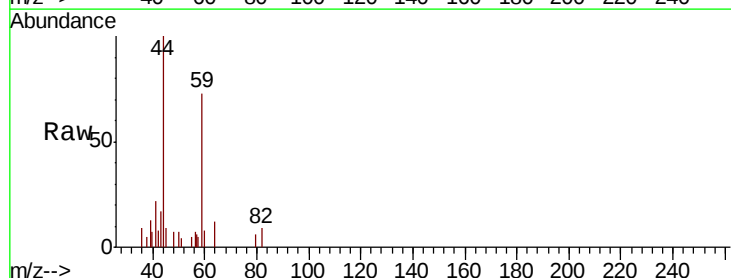
Instrument :
MSVOA_X
ClientSampleId :

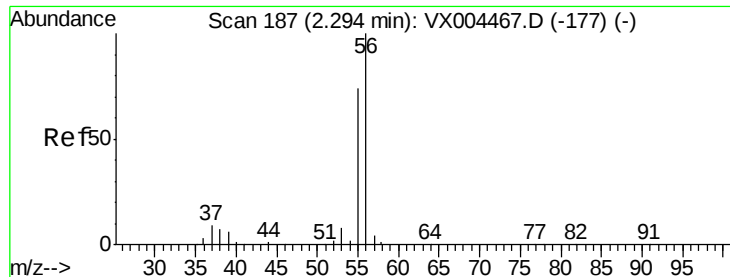
Tot Ion:142 Resp: 215
Ion Ratio Lower Upper
142 100
127 10.2 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 4.72 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Tgt Ion: 59 Resp: 2977
Ion Ratio Lower Upper
59 100
57 8.6 8.2 12.4





#13

Acrolein

Concen: 0.64 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :

MSVOA_X

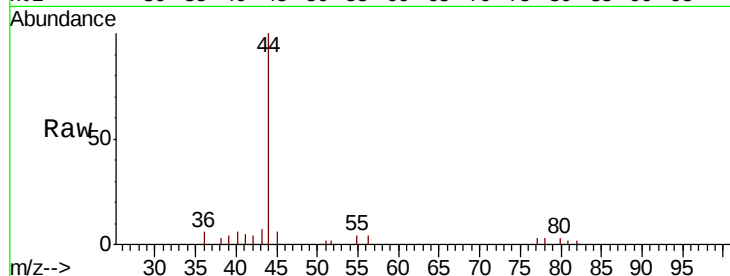
ClientSampled :

Tot Ion: 56 Resp: 160

Ion Ratio Lower Upper

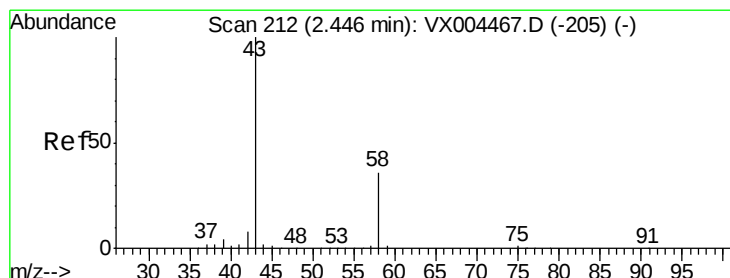
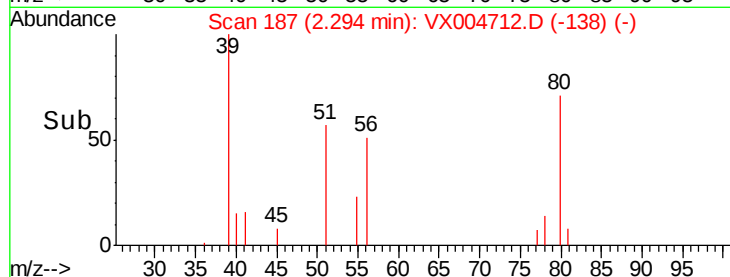
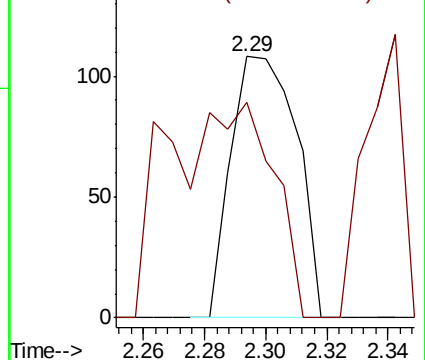
56 100

55 85.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 21.65 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004712.D

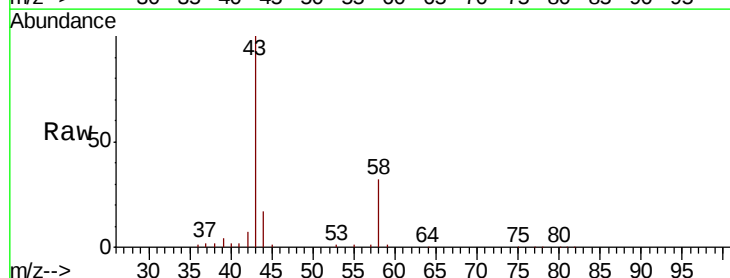
Acq: 19 Sep 2018 18:06

Tgt Ion: 43 Resp: 27932

Ion Ratio Lower Upper

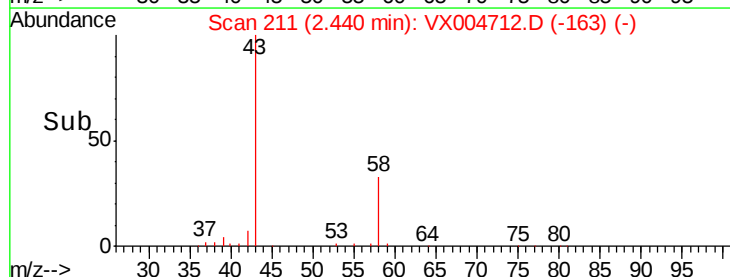
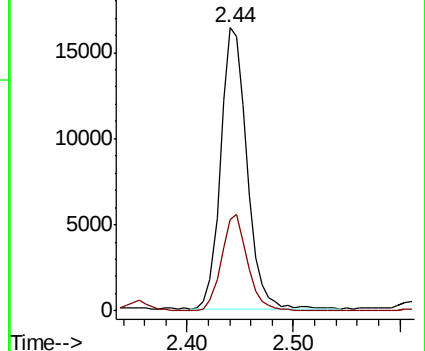
43 100

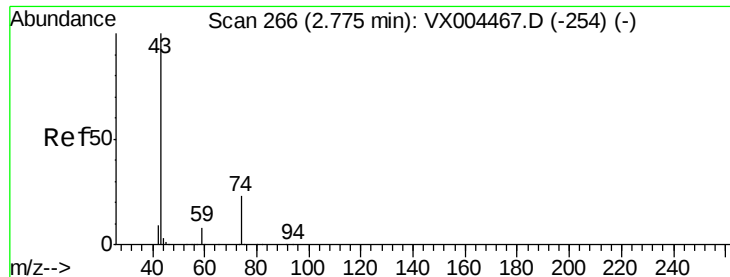
58 32.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

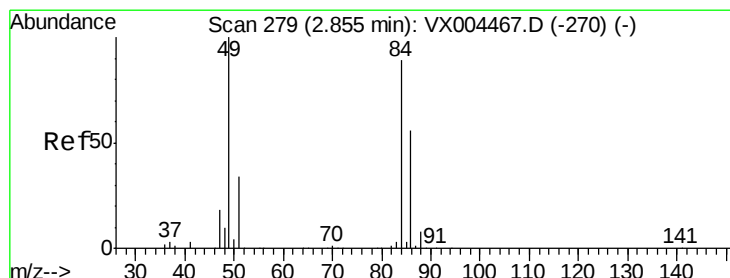
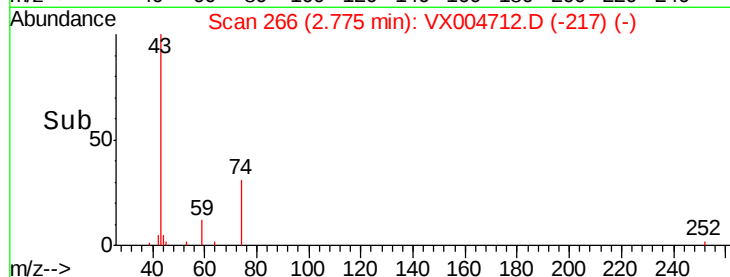
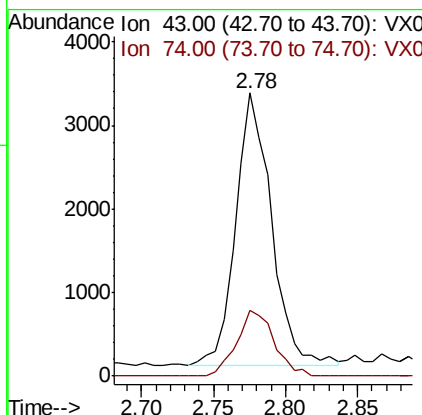
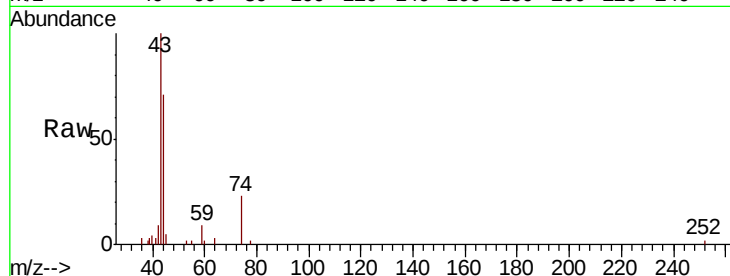




#18
Methvl Acetate
Concen: 1.57 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

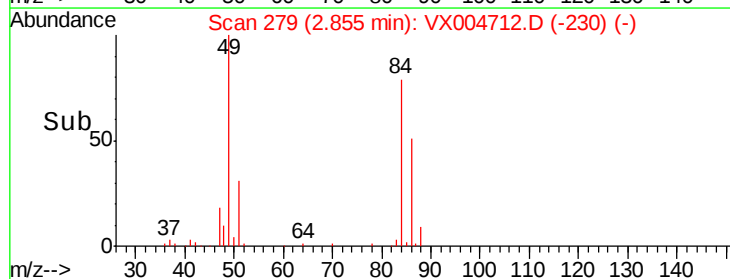
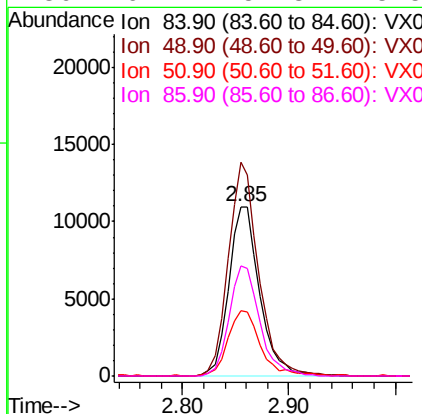
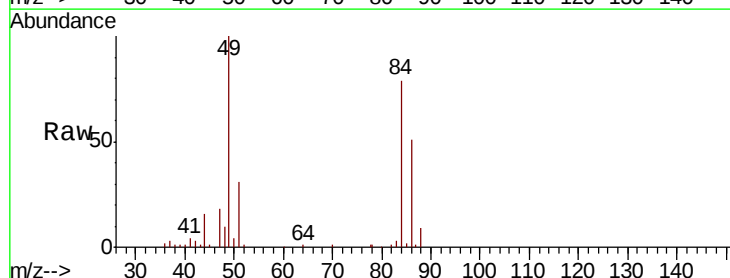
Instrument :
MSVOA_X
ClientSampleId :

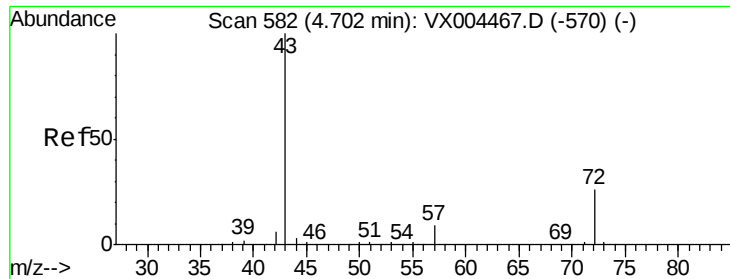
Tot Ion: 43 Resp: 5673
Ion Ratio Lower Upper
43 100
74 24.8 19.4 29.2



#20
Methylene Chloride
Concen: 8.43 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Tgt Ion: 84 Resp: 22307
Ion Ratio Lower Upper
84 100
49 126.0 101.2 151.8
51 38.9 29.5 44.3
86 64.7 52.3 78.5





#25

2-Butanone

Concen: 3.00 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :

MSVOA_X

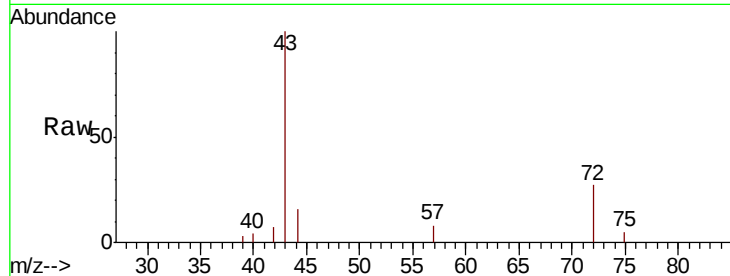
ClientSampleId :

Tot Ion: 43 Resp: 6165

Ion Ratio Lower Upper

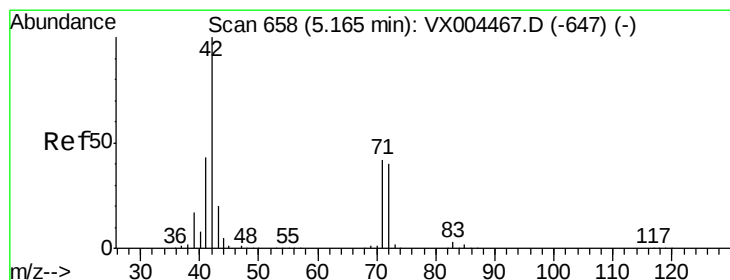
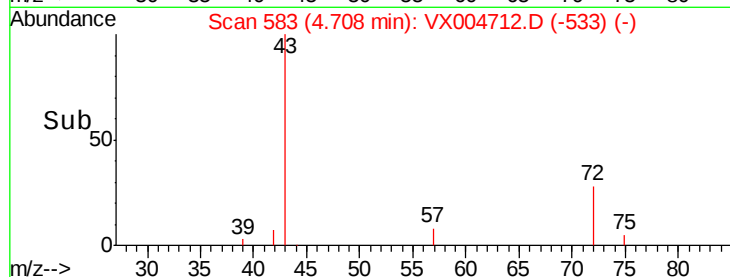
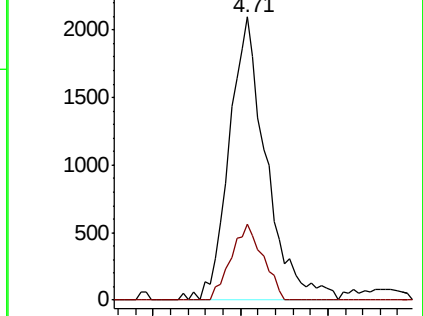
43 100

72 27.0 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: 1.17 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

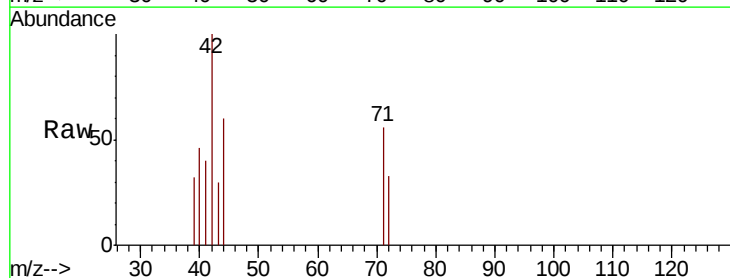
Tgt Ion: 42 Resp: 1444

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

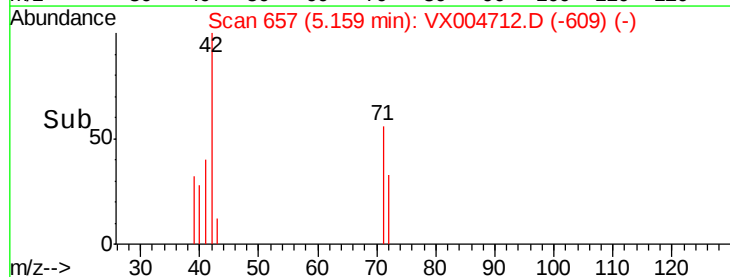
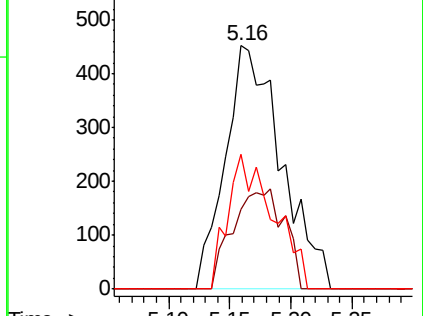
71 44.8 34.5 51.7

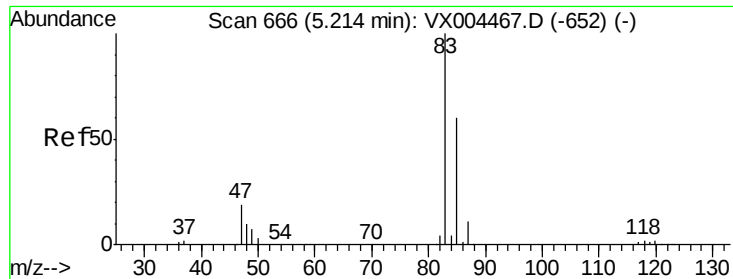


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

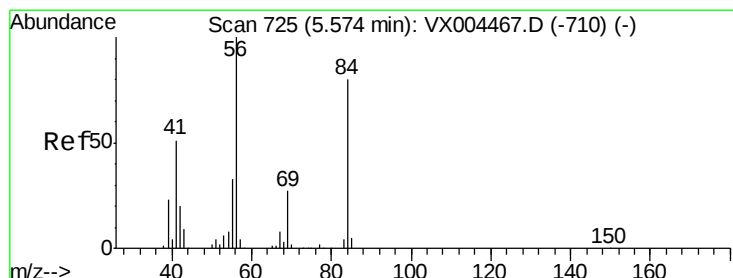
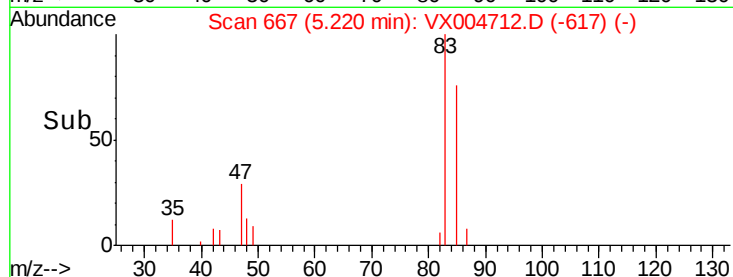
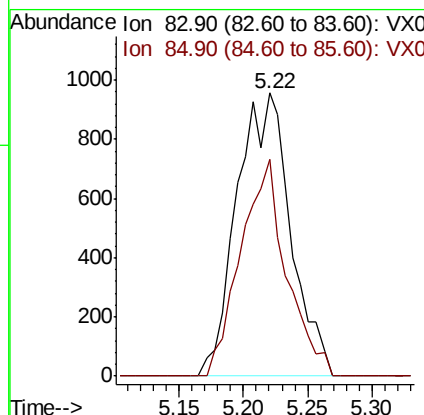
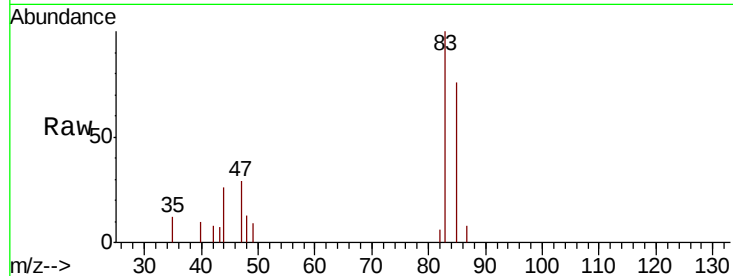




#30
Chloroform
Concen: 0.63 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

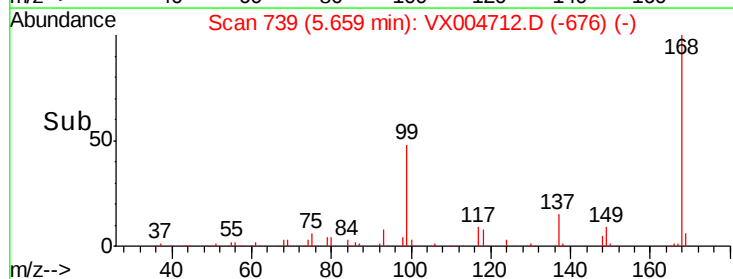
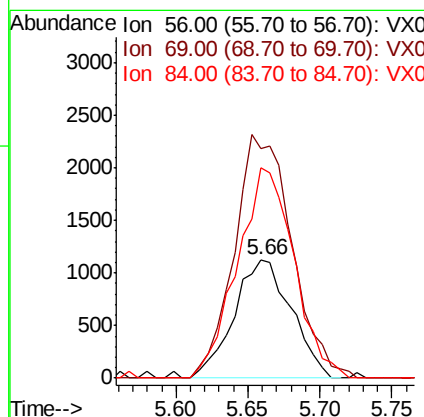
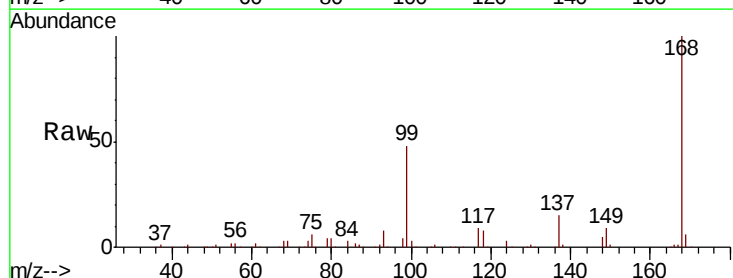
Instrument :
MSVOA_X
ClientSampled :

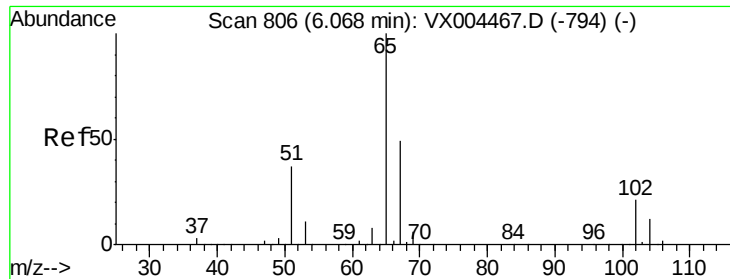
Tot Ion: 83 Resp: 2768
Ion Ratio Lower Upper
83 100
85 76.4 52.6 79.0



#31
Cyclohexane
Concen: 0.81 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Tgt Ion: 56 Resp: 3107
Ion Ratio Lower Upper
56 100
69 193.5 25.4 38.2#
84 177.7 71.4 107.2#

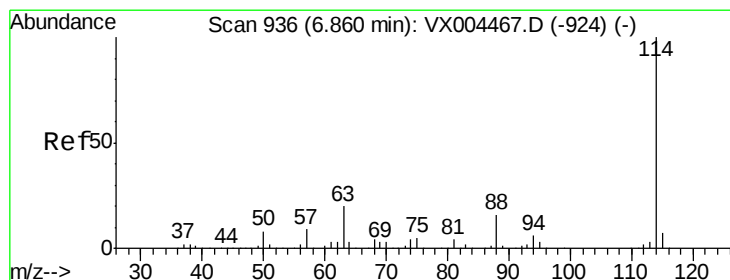
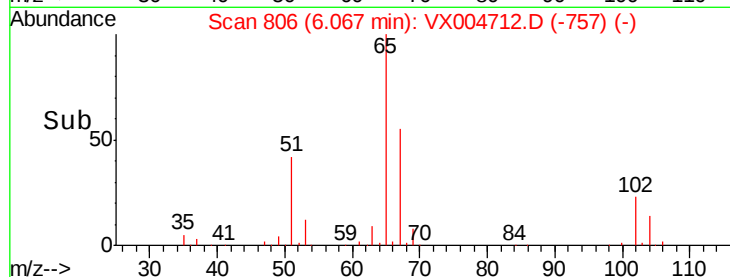
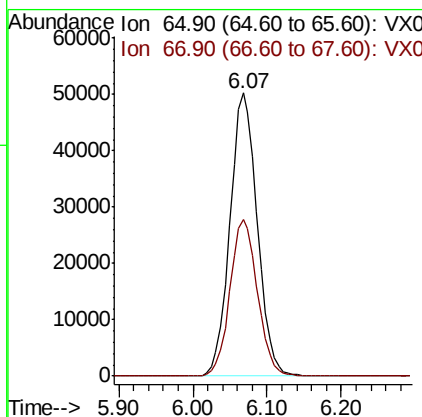
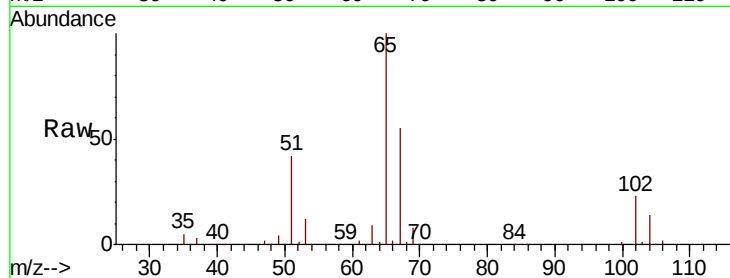




#33
 1,2-Dichloroethane-d4
 Concen: 48.92 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004712.D
 Acq: 19 Sep 2018 18:06

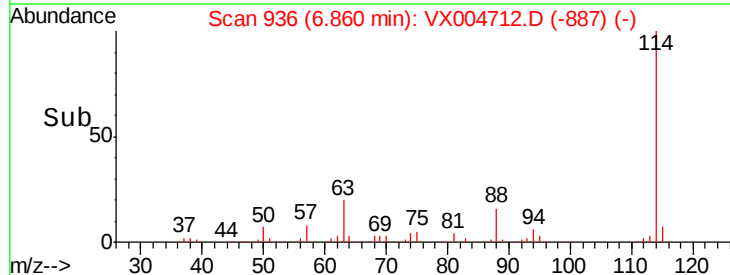
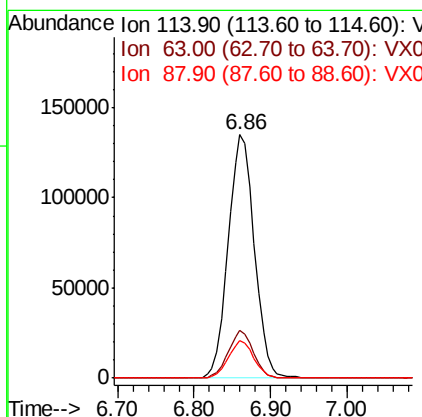
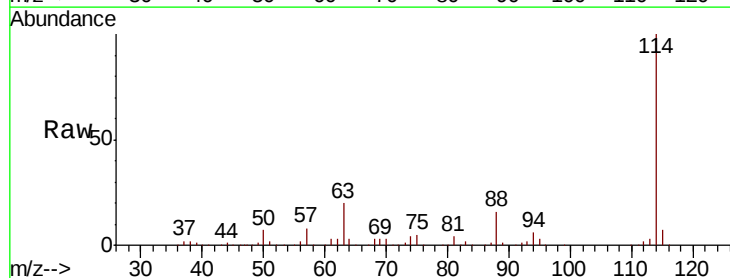
Instrument :
 MSVOA_X
 ClientSampleId :

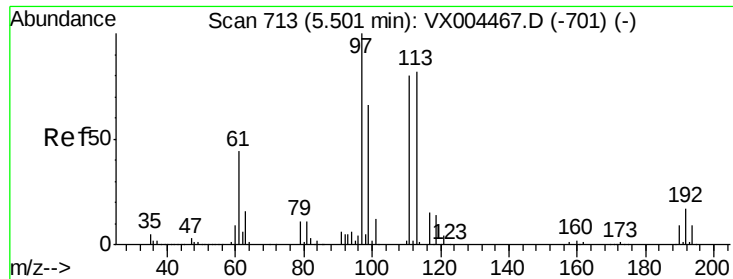
Tot Ion: 65 Resp: 129319
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004712.D
 Acq: 19 Sep 2018 18:06

Tgt Ion: 114 Resp: 319448
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.0
 88 15.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 40.74 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :
MSVOA_X
ClientSampleId :

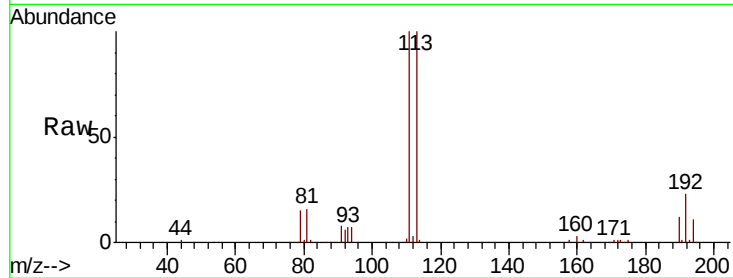
Tot Ion:113 Resp: 119082

Ion Ratio Lower Upper

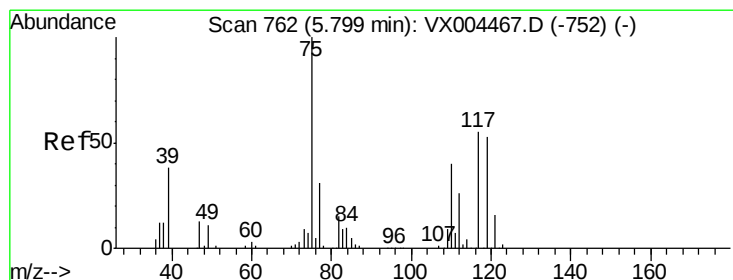
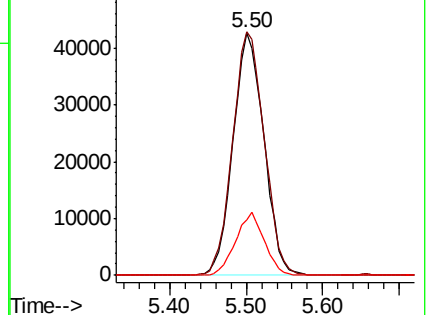
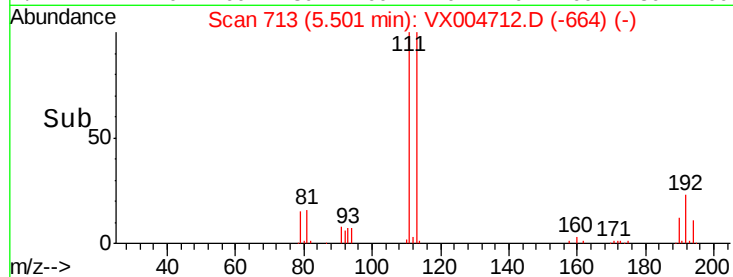
113 100

111 102.8 82.4 123.6

192 24.3 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: 3.31 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

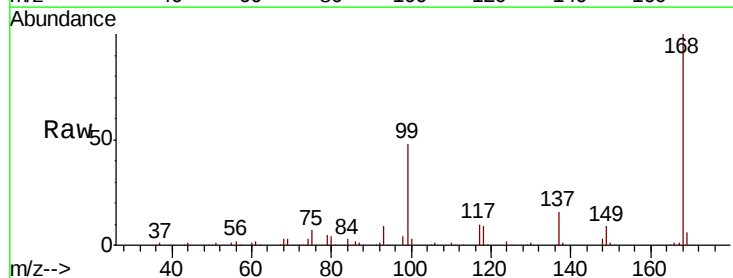
Tgt Ion: 75 Resp: 12836

Ion Ratio Lower Upper

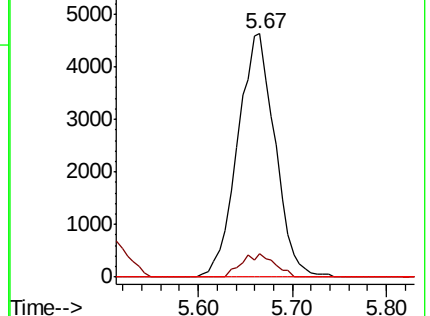
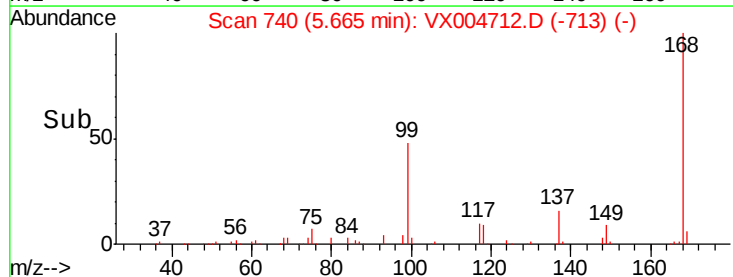
75 100

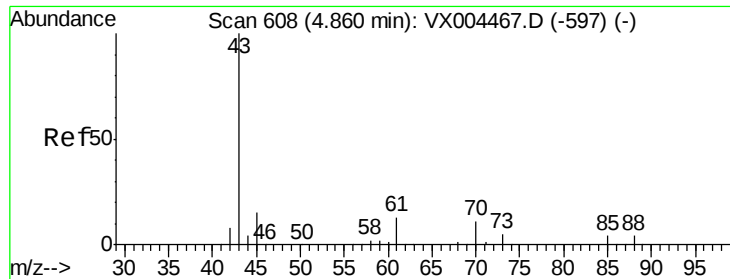
110 8.4 18.0 54.0#

77 0.0 24.6 36.8#



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

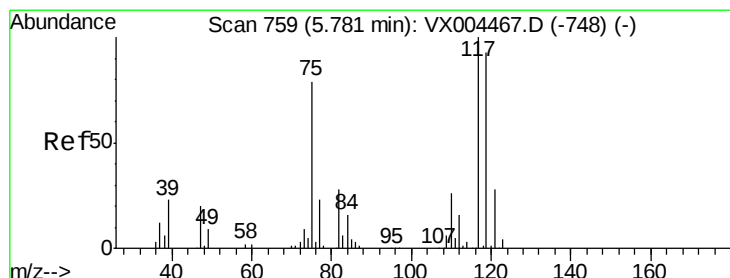
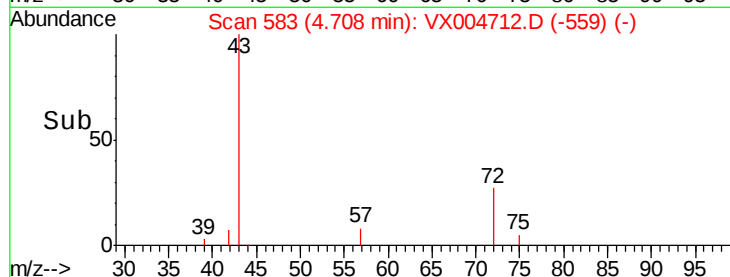
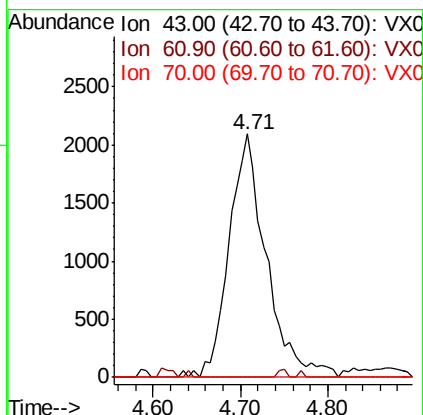
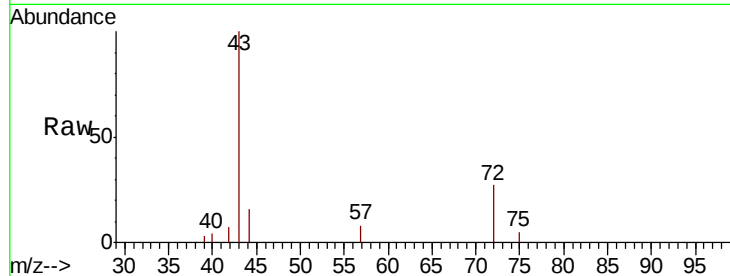




#37
Ethyl Acetate
Concen: 1.40 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

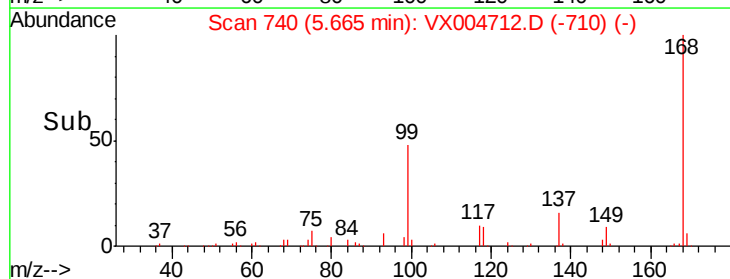
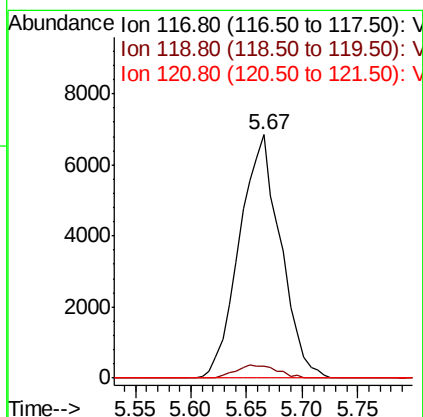
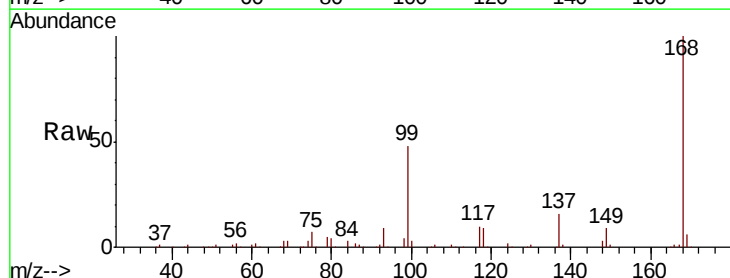
Instrument :
MSVOA_X
ClientSampled :

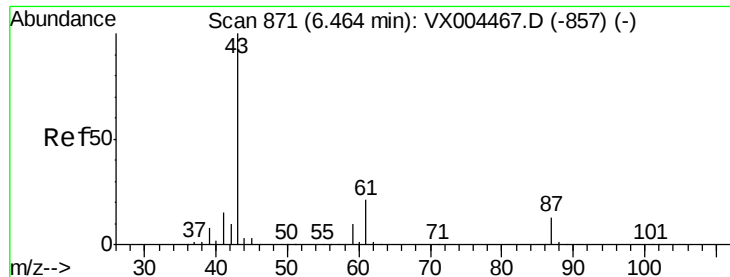
Tot Ion: 43 Resp: 6165
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 9.0 13.6#



#38
Carbon Tetrachloride
Concen: 4.64 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Tgt Ion: 117 Resp: 17567
Ion Ratio Lower Upper
117 100
119 4.8 78.8 118.2#
121 0.0 24.9 37.3#



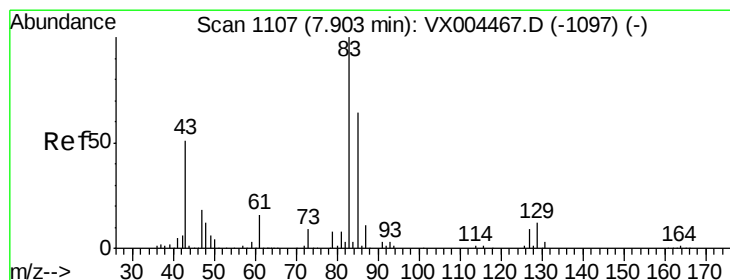
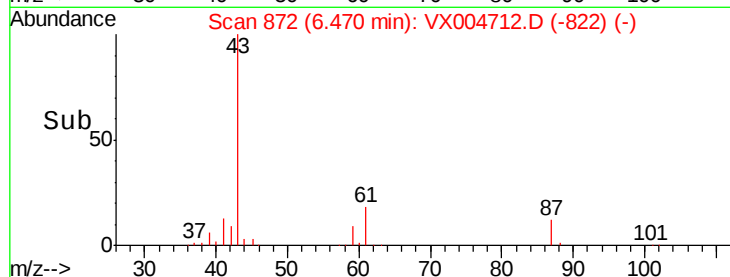
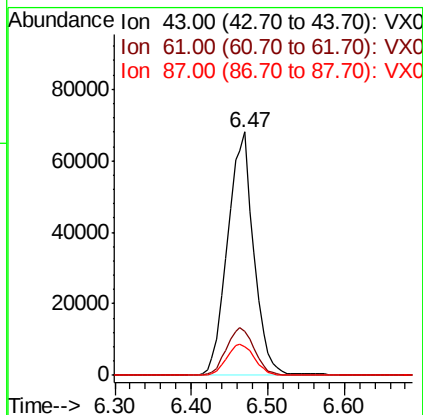
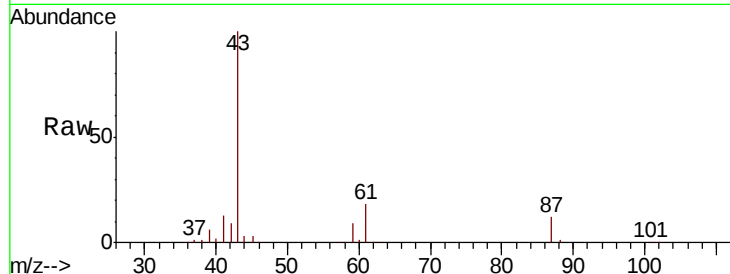


#43

Isopropyl Acetate
 Concen: 27.46 ug/l
 RT: 6.47 min Scan# 872
 Delta R.T. 0.01 min
 Lab File: VX004712.D
 Acq: 19 Sep 2018 18:06

Instrument :
 MSVOA_X
 ClientSampleId :

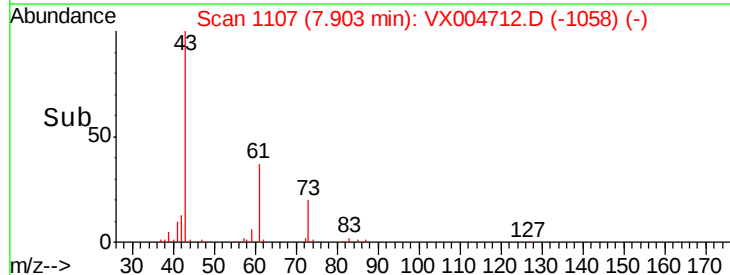
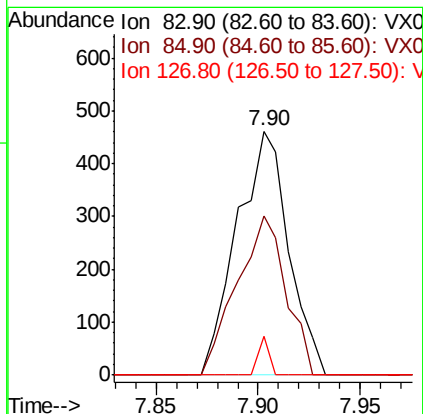
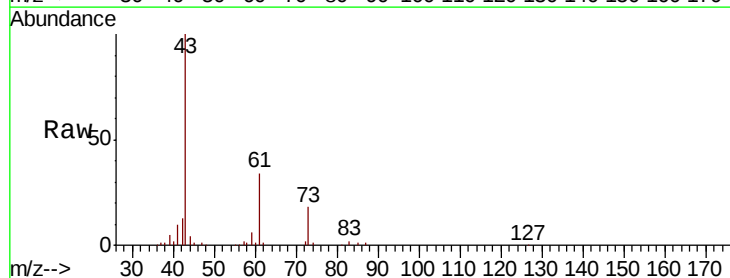
Tot Ion	Ratio	Lower	Upper
43	100		
61	21.0	17.0	25.4
87	13.8	11.4	17.2

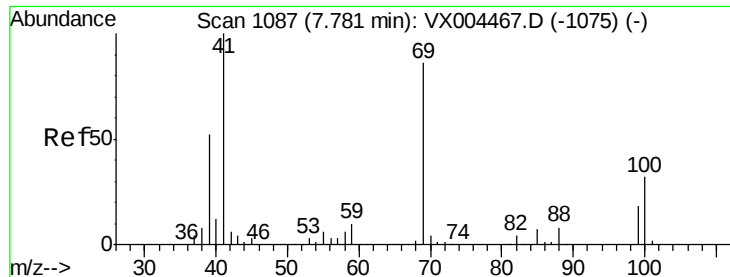


#47

Bromodichloromethane
 Concen: 0.25 ug/l
 RT: 7.90 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: VX004712.D
 Acq: 19 Sep 2018 18:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	50.9	76.3
127	16.1	7.3	10.9





#48

Methvl methacrylate

Concen: 2.18 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :
MSVOA_X
ClientSampleId :

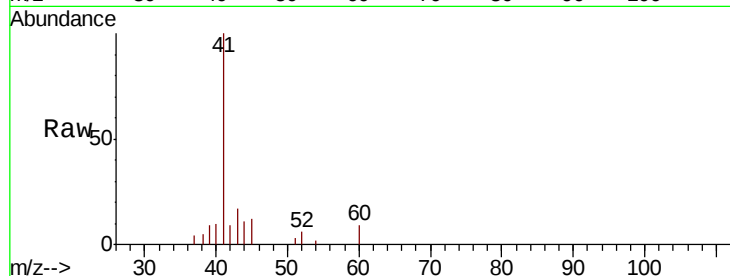
Tot Ion: 41 Resp: 6330

Ion Ratio Lower Upper

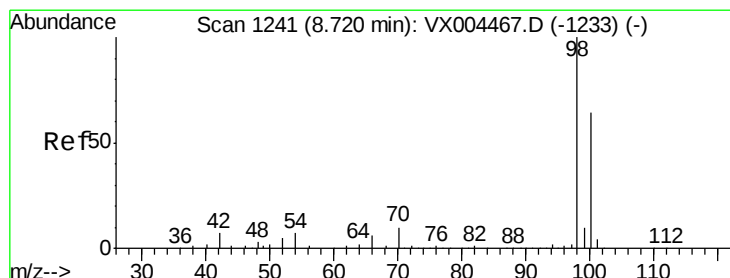
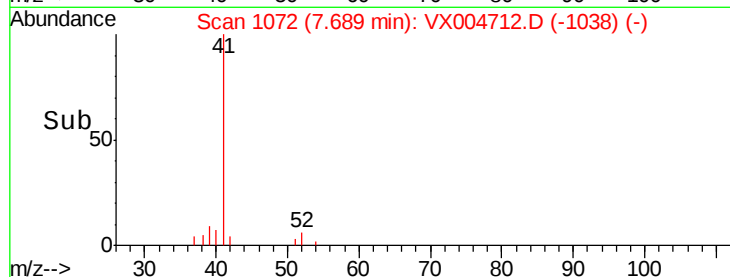
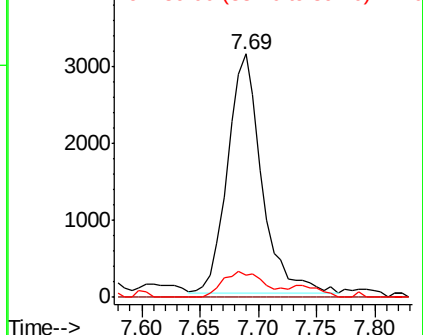
41 100

69 0.0 70.2 105.4#

39 13.6 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 45.35 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004712.D

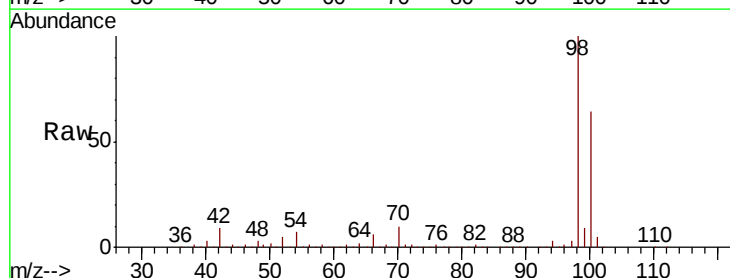
Acq: 19 Sep 2018 18:06

Tgt Ion: 98 Resp: 444593

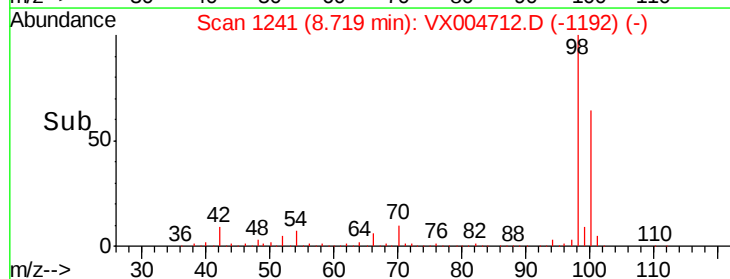
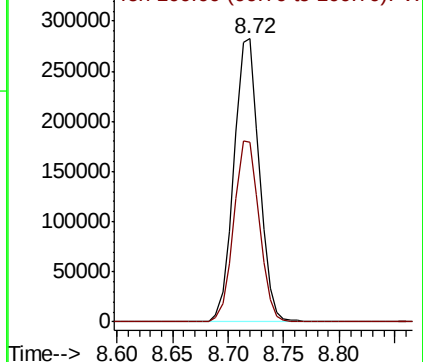
Ion Ratio Lower Upper

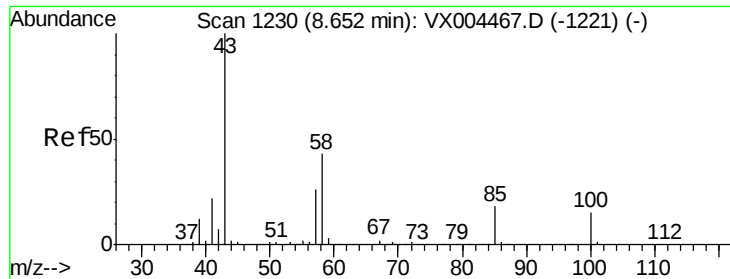
98 100

100 64.6 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: 0.43 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :

MSVOA_X

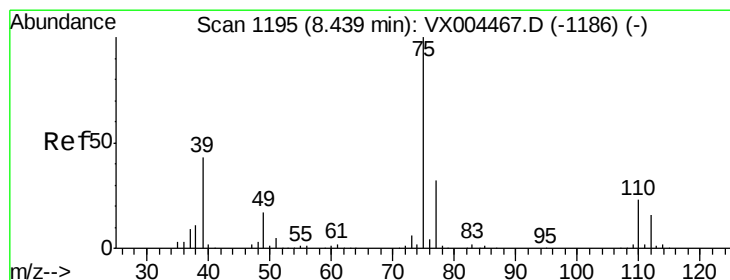
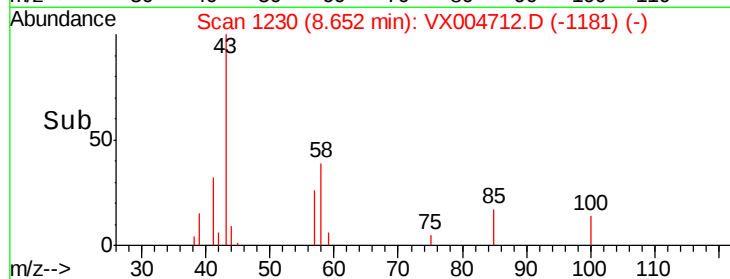
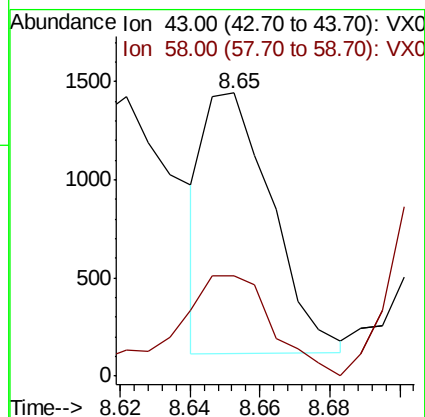
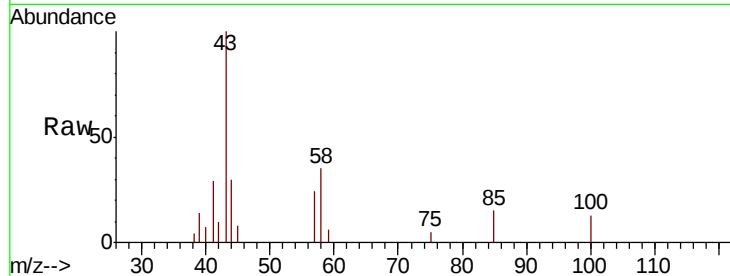
ClientSampleId :

Tot Ion: 43 Resp: 1762

Ion Ratio Lower Upper

43 100

58 58.9 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.28 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

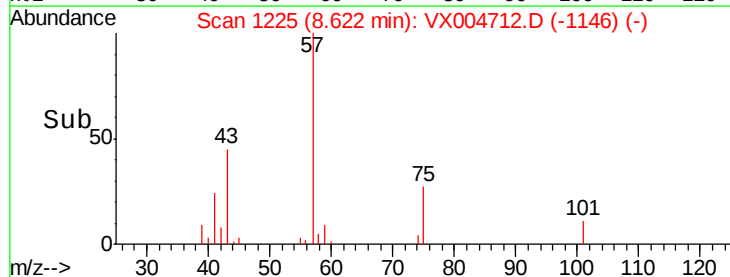
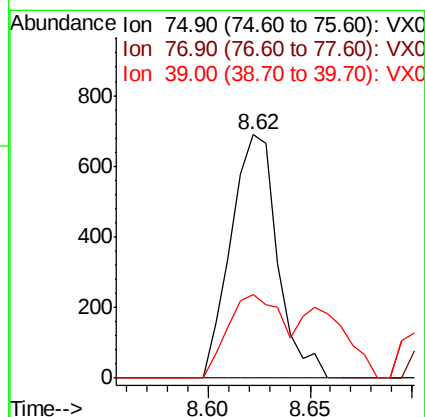
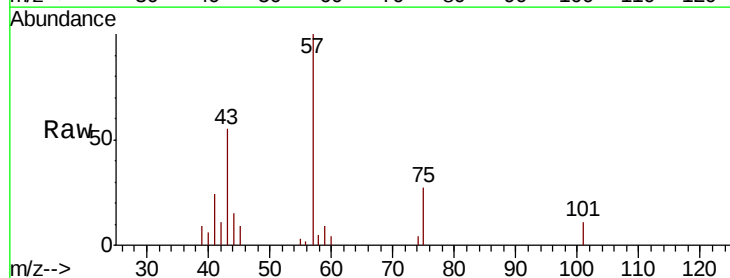
Tgt Ion: 75 Resp: 1096

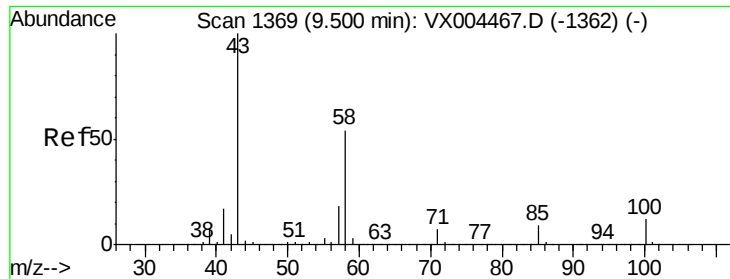
Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 34.3 36.4 54.6#

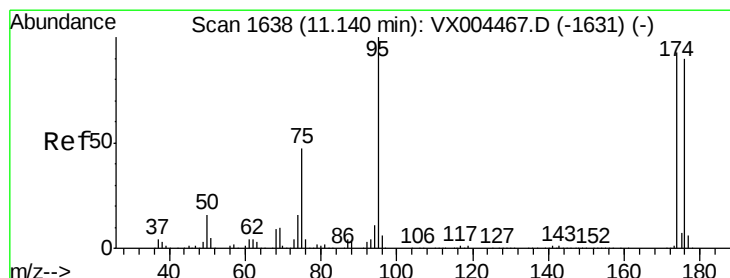
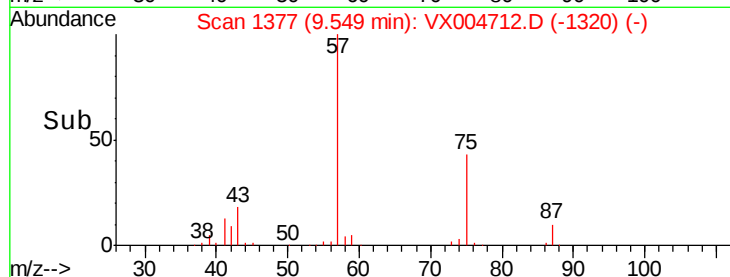
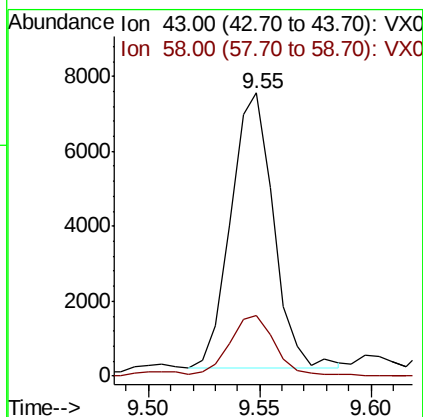
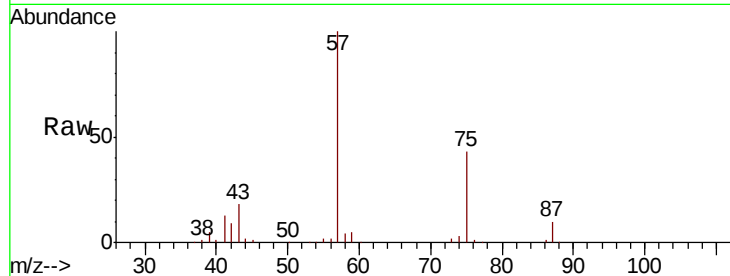




#59
2-Hexanone
Concen: 3.07 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

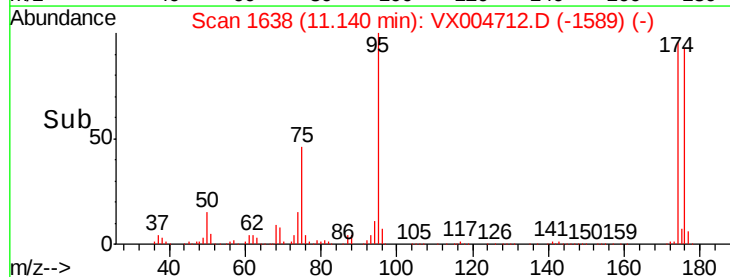
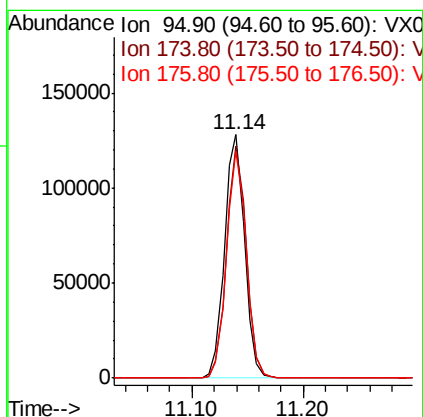
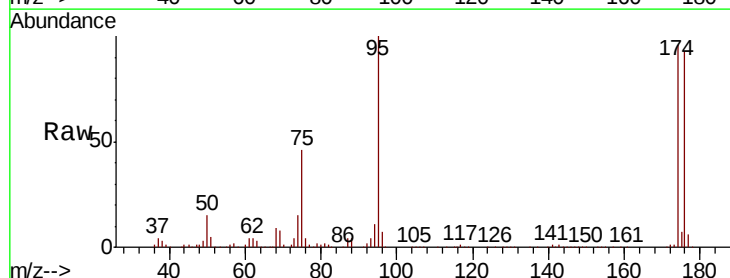
Instrument :
MSVOA_X
ClientSampleId :

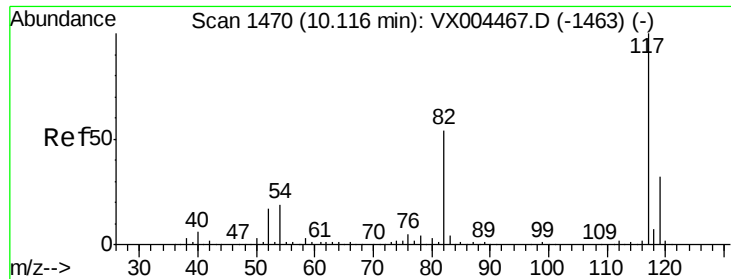
Tot Ion: 43 Resp: 9721
Ion Ratio Lower Upper
43 100
58 24.1 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 45.50 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Tgt Ion: 95 Resp: 159218
Ion Ratio Lower Upper
95 100
174 94.4 0.0 185.2
176 91.8 0.0 178.6

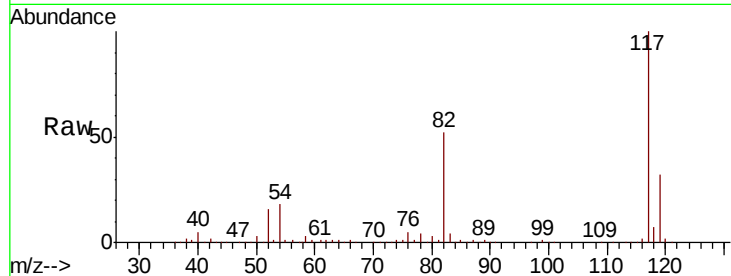




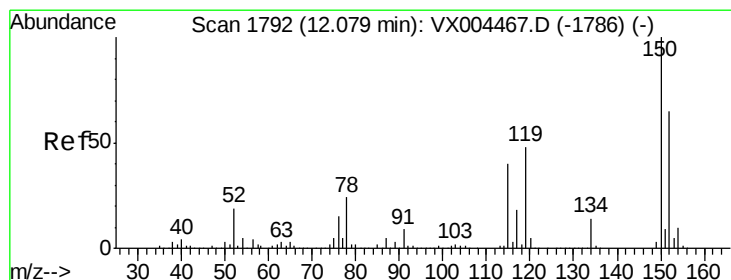
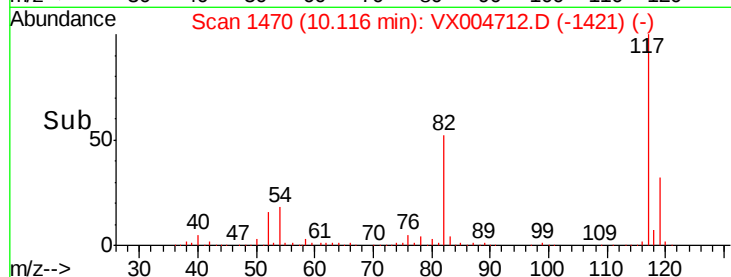
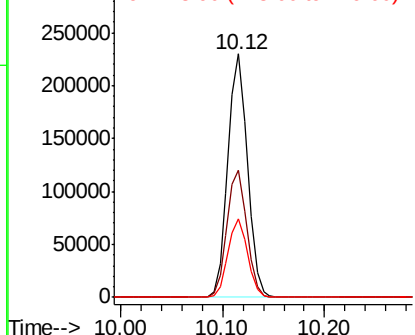
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 305003
Ion Ratio Lower Upper
117 100
82 52.5 47.8 71.6
119 32.2 29.3 43.9

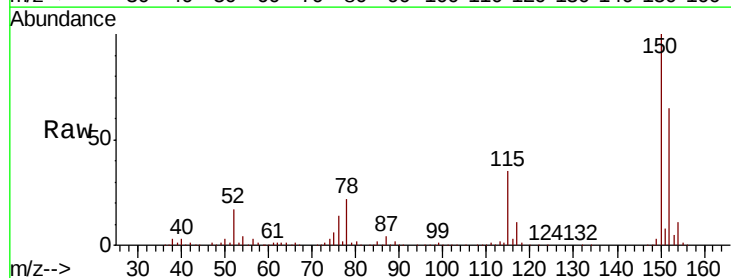


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

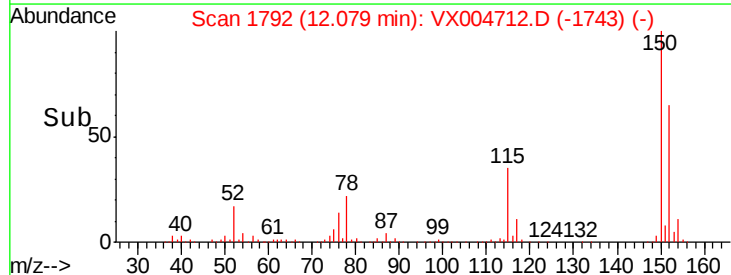
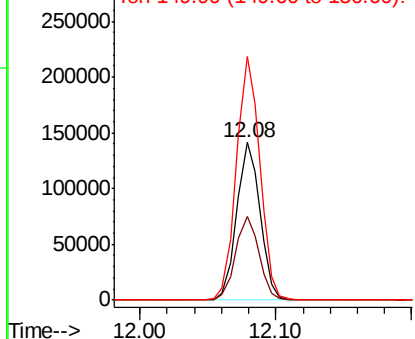


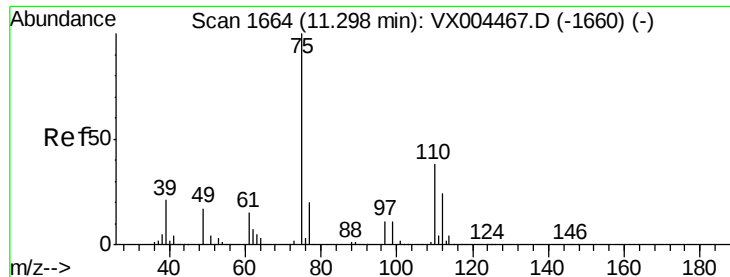
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004712.D
Acq: 19 Sep 2018 18:06

Tgt Ion:152 Resp: 168103
Ion Ratio Lower Upper
152 100
115 53.7 39.0 117.0
150 156.1 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: 21.89 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :

MSVOA_X

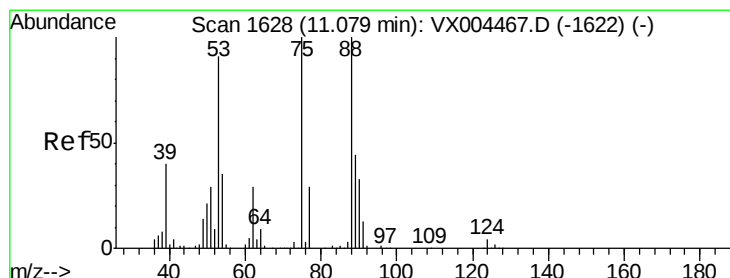
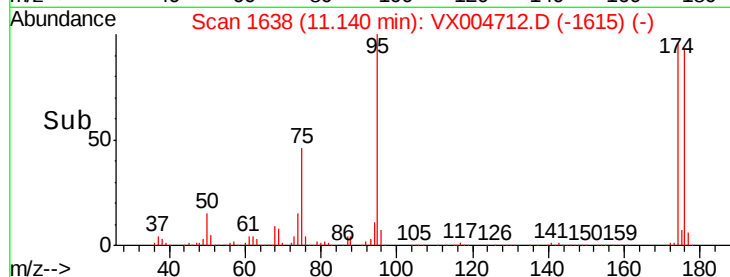
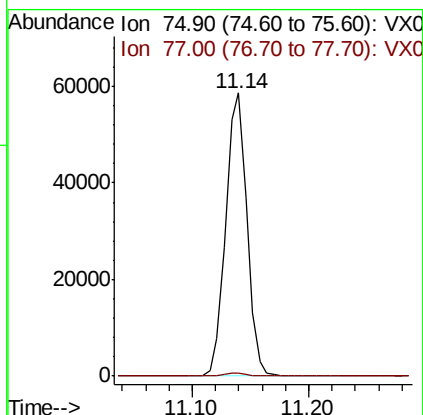
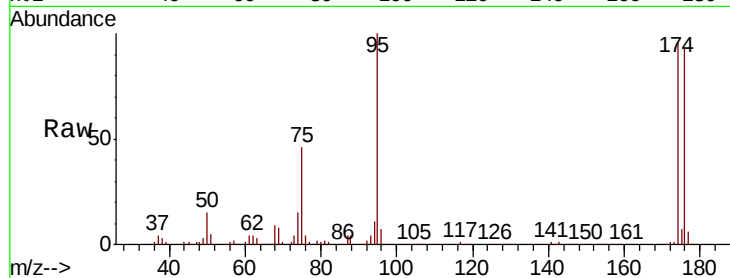
ClientSampleId :

Tot Ion: 75 Resp: 74024

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.76 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

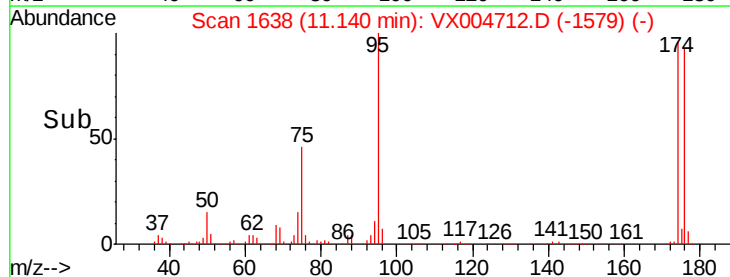
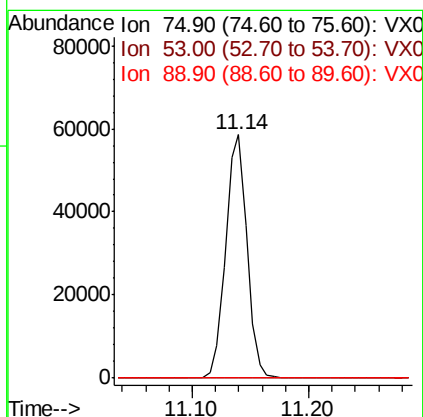
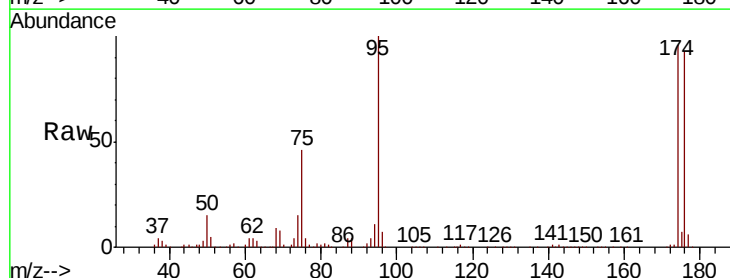
Tgt Ion: 75 Resp: 74024

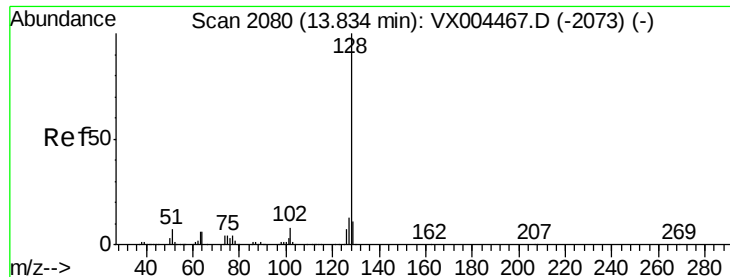
Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 2.35 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX004712.D

Acq: 19 Sep 2018 18:06

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:128 Resp: 26974

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

129 11.1 8.6 12.8

