

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110518\
 Data File : VX005794.D
 Acq On : 05 Nov 2018 22:17
 Operator : JC/MD
 Sample : J5815-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 00:49:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	148025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	234630	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	218076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	94518	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	109676	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
35) Dibromofluoromethane	5.51	113	81657	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
50) Toluene-d8	8.72	98	306660	53.82	ug/l	0.00
Spiked Amount			Recovery	=	107.64%	
62) 4-Bromofluorobenzene	11.14	95	95142	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	

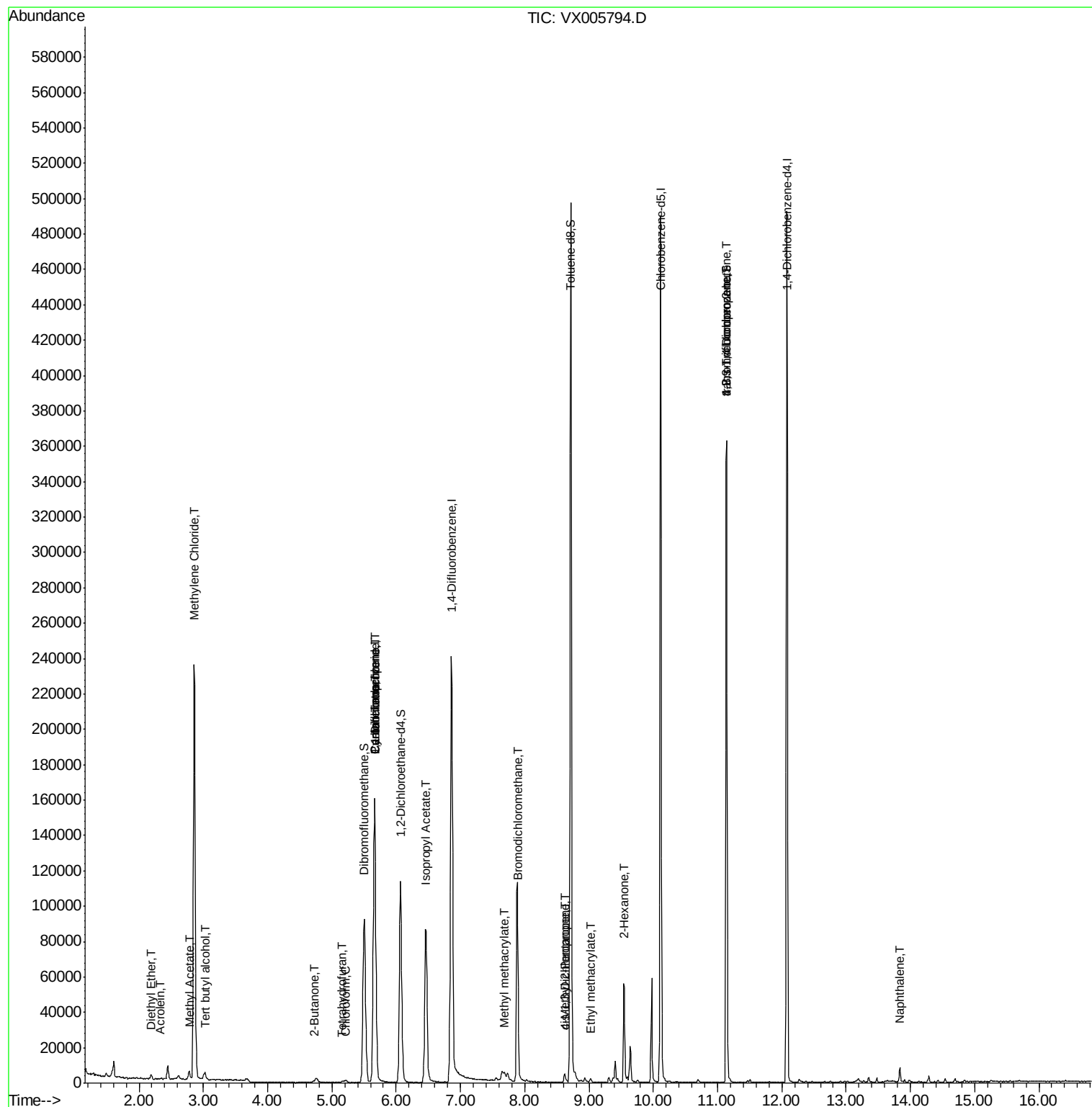
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.61	64	148	Below Cal	#	1
8) Diethyl Ether	2.19	74	859	0.709	ug/l	81
11) Tert butyl alcohol	3.03	59	2761	4.698	ug/l #	76
13) Acrolein	2.33	56	20	12.228	ug/l #	1
16) Acetone	2.45	43	7233	Below Cal		93
18) Methyl Acetate	2.78	43	5627	1.812	ug/l	95
20) Methylene Chloride	2.85	84	104792	56.152	ug/l	93
25) 2-Butanone	4.72	43	1454	0.796	ug/l	97
29) Tetrahydrofuran	5.16	42	646	0.580	ug/l #	70
30) Chloroform	5.21	83	1411	0.417	ug/l	98
31) Cyclohexane	5.67	56	3160	1.093	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	11937	4.775	ug/l #	49
38) Carbon Tetrachloride	5.67	117	13706	6.069	ug/l #	16
43) Isopropyl Acetate	6.46	43	118194	25.534	ug/l	97
47) Bromodichloromethane	7.90	83	596	0.261	ug/l #	90
48) Methyl methacrylate	7.68	41	4943	2.206	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	2015	0.638	ug/l #	46
54) cis-1,3-Dichloropropene	8.62	75	656	0.247	ug/l #	69
56) Ethyl methacrylate	9.02	69	48	2.486	ug/l #	1
59) 2-Hexanone	9.54	43	6532	2.543	ug/l #	61
76) 1,2,3-Trichloropropane	11.13	75	49905	21.199	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	49905	68.494	ug/l #	9
95) Naphthalene	13.83	128	4904	0.744	ug/l #	95

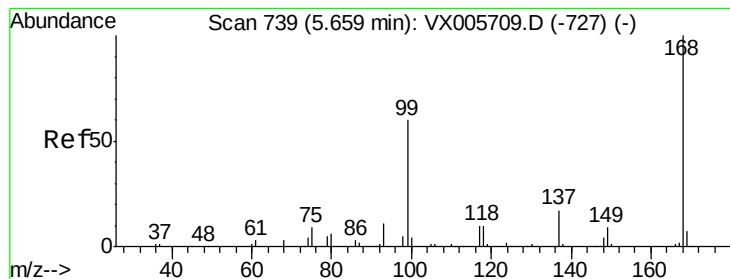
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 31 18:23:06 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

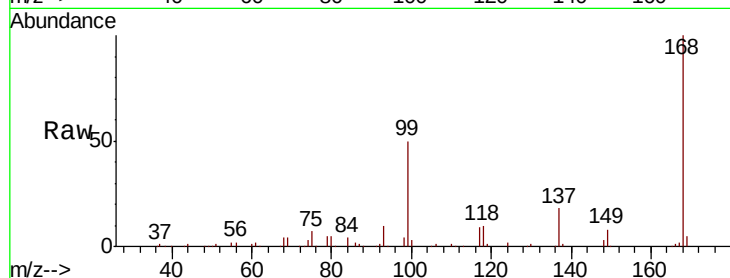
ClientSampleId :

Tot Ion:168 Resp: 148025

Ion Ratio Lower Upper

168 100

99 50.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

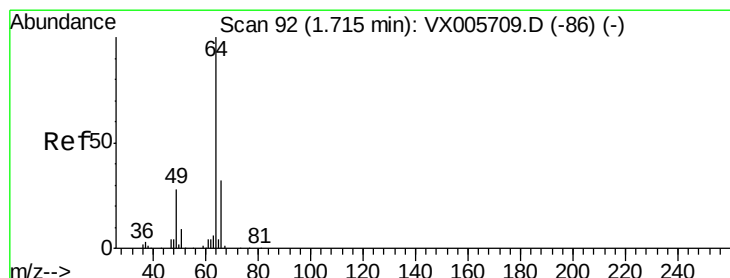
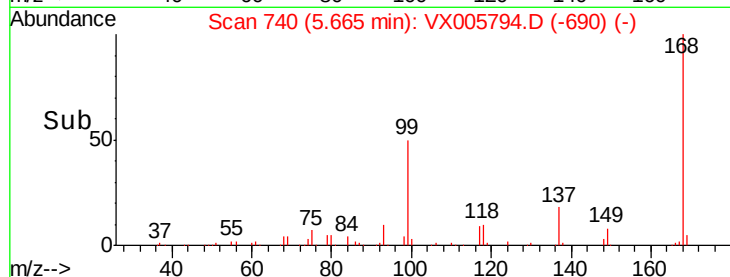
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX005794.D

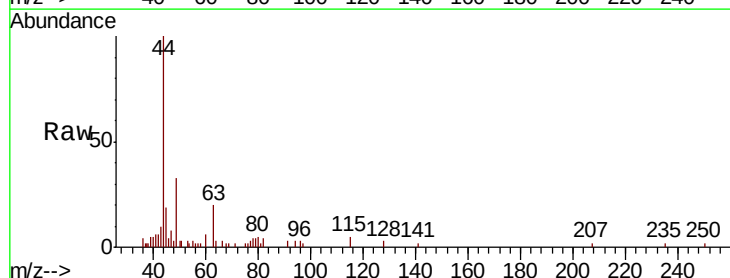
Acq: 05 Nov 2018 22:17

Tgt Ion: 64 Resp: 148

Ion Ratio Lower Upper

64 100

66 109.6 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

120

100

80

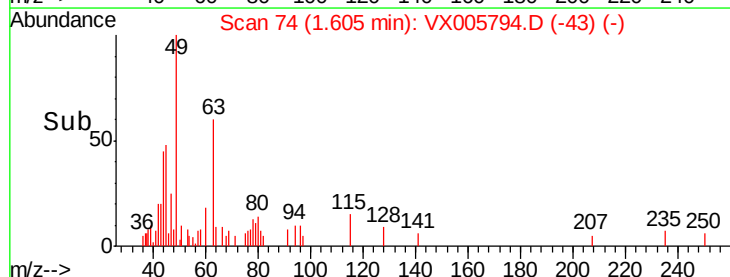
60

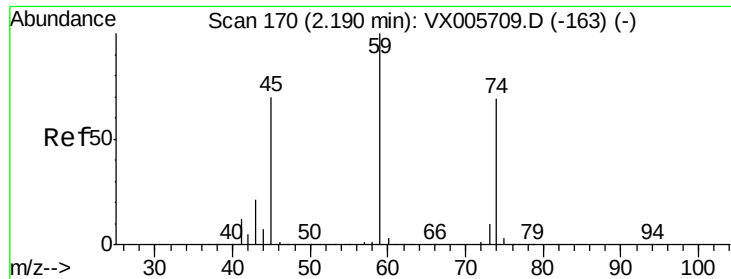
40

20

0

Time--> 1.56 1.58 1.60 1.62 1.64





#8

Diethyl Ether

Concen: 0.709 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

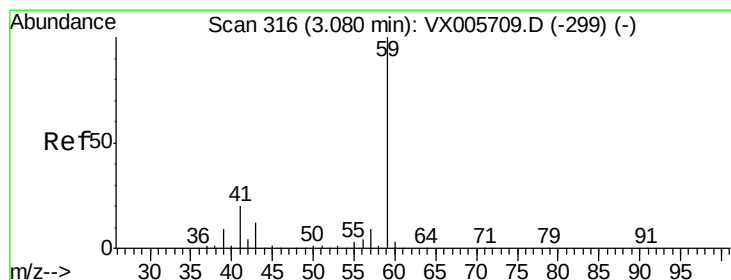
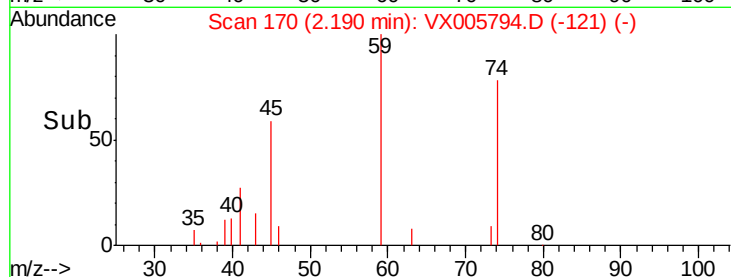
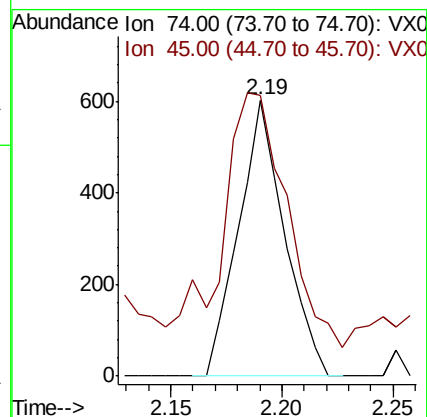
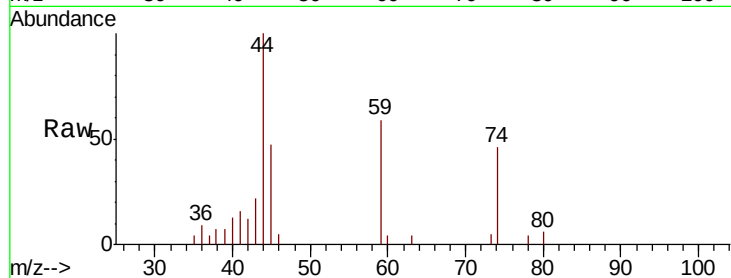
ClientSampleId :

Tot Ion: 74 Resp: 859

Ion Ratio Lower Upper

74 100

45 127.8 54.1 162.3



#11

Tert butyl alcohol

Concen: 4.698 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005794.D

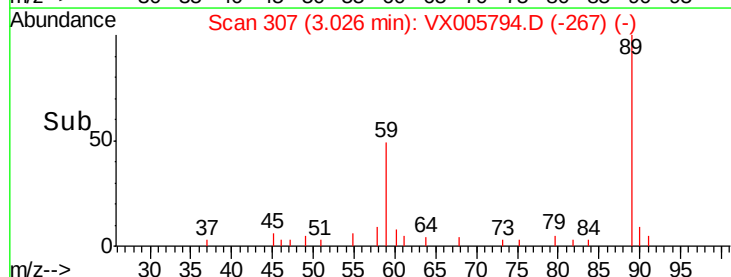
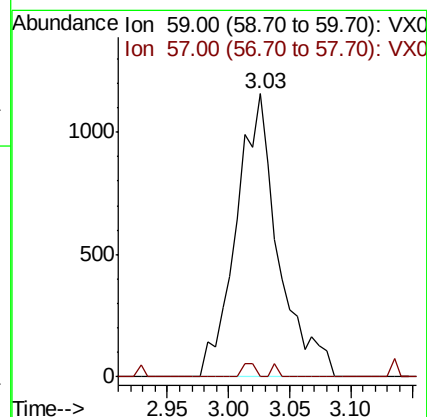
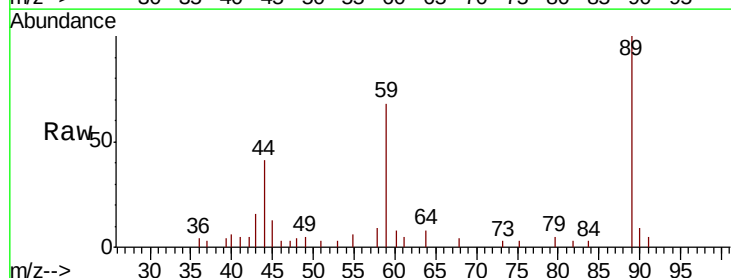
Acq: 05 Nov 2018 22:17

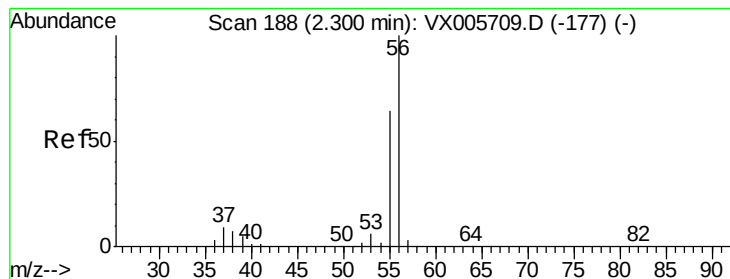
Tgt Ion: 59 Resp: 2761

Ion Ratio Lower Upper

59 100

57 1.4 8.5 12.7#





#13

Acrolein

Concen: 12.228 ug/l

RT: 2.33 min Scan# 193

Delta R.T. 0.03 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

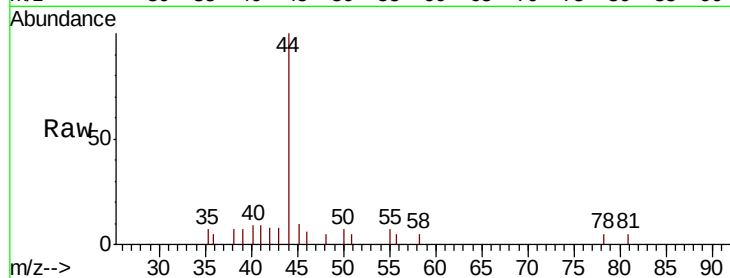
ClientSampled :

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

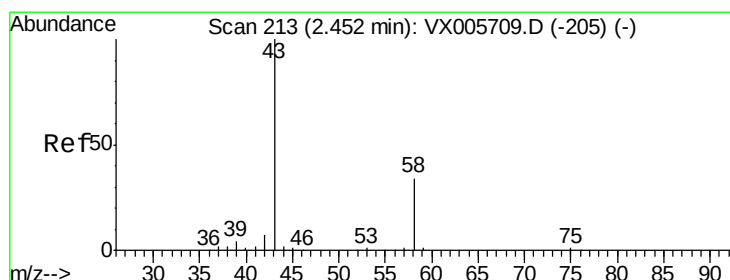
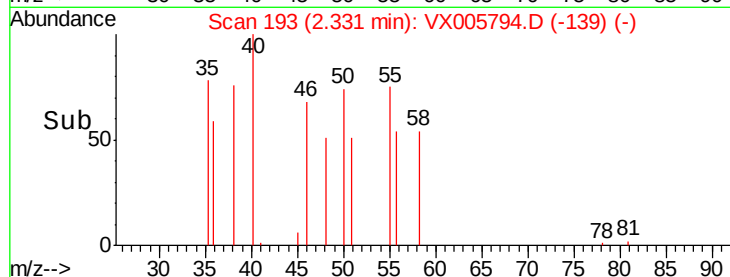
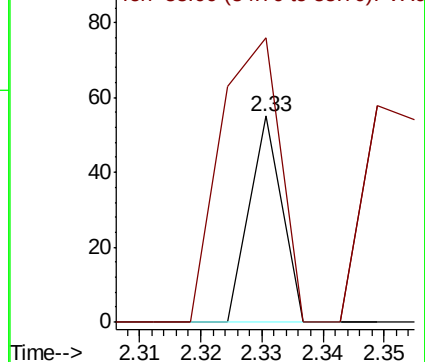
56 100

55 255.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005794.D

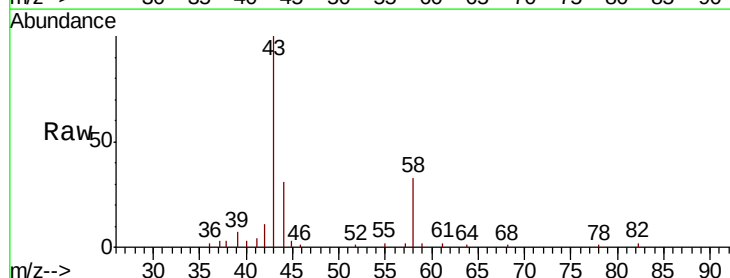
Acq: 05 Nov 2018 22:17

Tgt Ion: 43 Resp: 7233

Ion Ratio Lower Upper

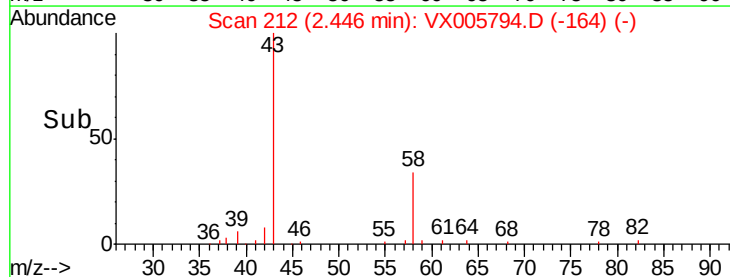
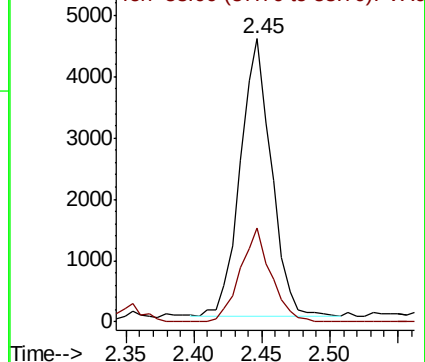
43 100

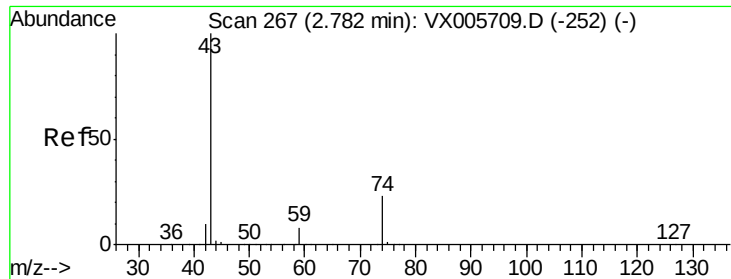
58 33.6 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

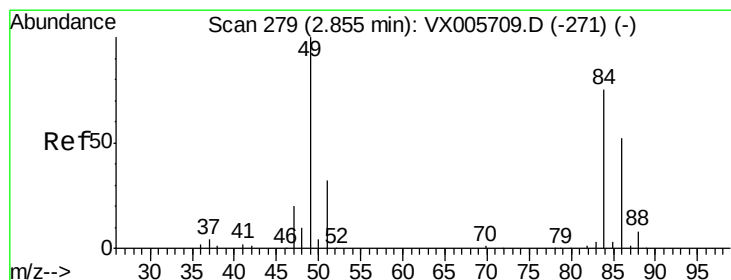
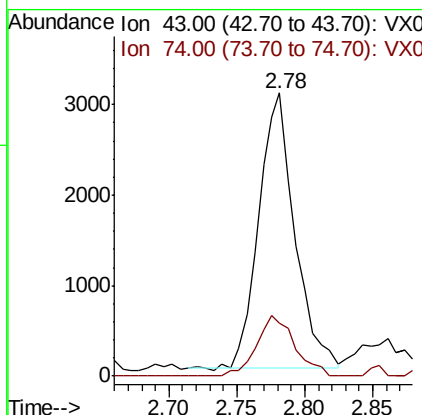
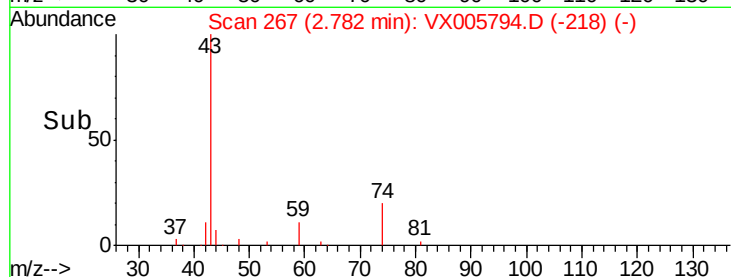
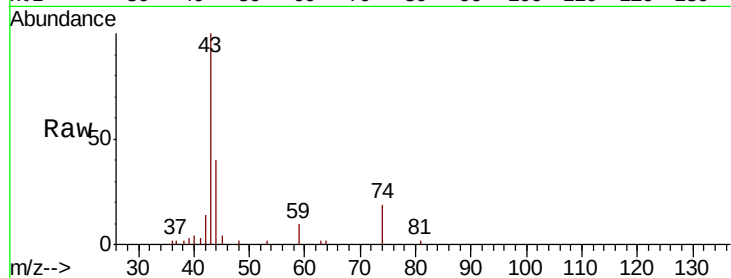




#18
Methvl Acetate
Concen: 1.812 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

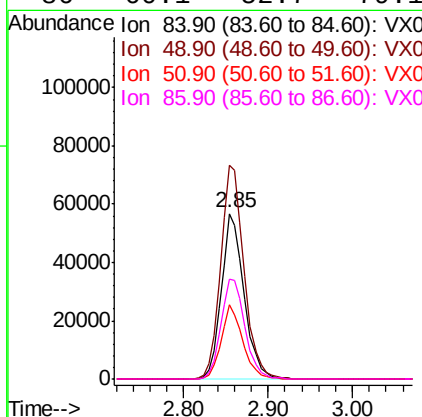
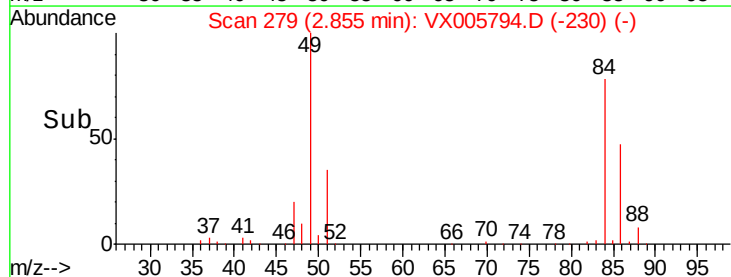
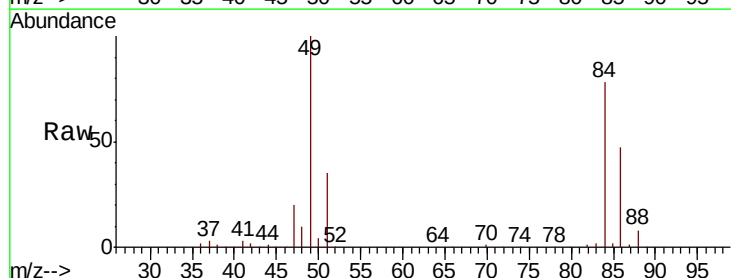
Instrument :
MSVOA_X
ClientSampleId :

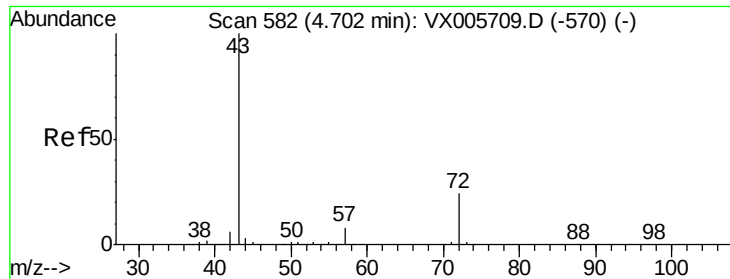
Tot Ion: 43 Resp: 5627
Ion Ratio Lower Upper
43 100
74 23.5 16.8 25.2



#20
Methylene Chloride
Concen: 56.152 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

Tgt Ion: 84 Resp: 104792
Ion Ratio Lower Upper
84 100
49 129.0 109.5 164.3
51 44.8 33.3 49.9
86 60.1 52.7 79.1





#25

2-Butanone

Concen: 0.796 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

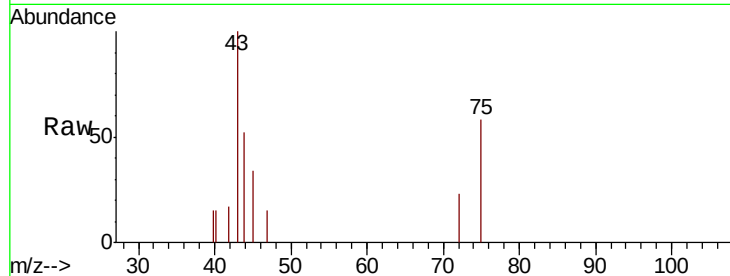
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1454

Ion Ratio Lower Upper

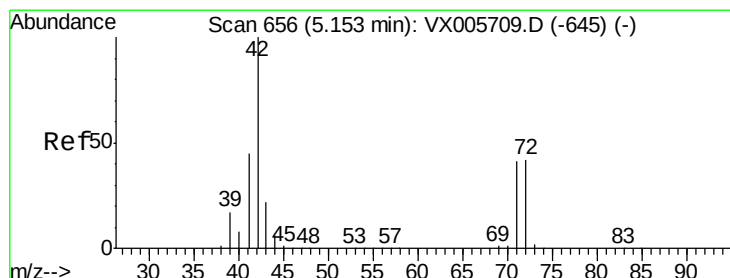
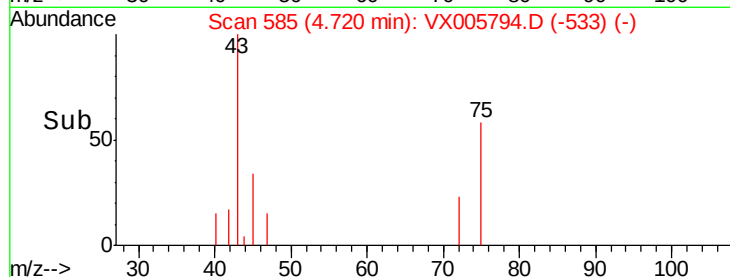
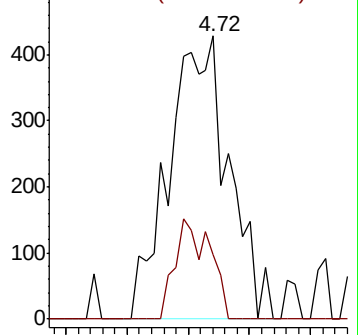
43 100

72 22.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.580 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

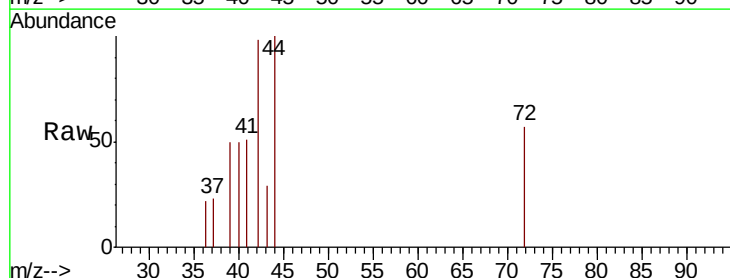
Tgt Ion: 42 Resp: 646

Ion Ratio Lower Upper

42 100

72 28.0 32.0 48.0#

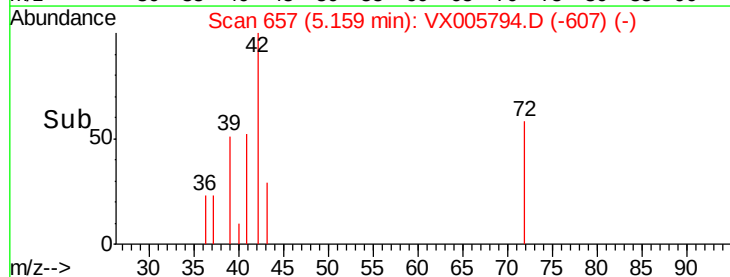
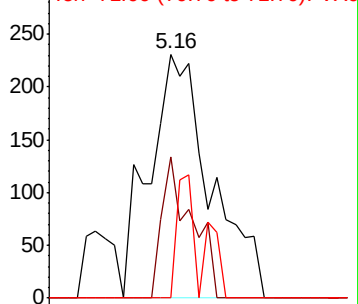
71 13.0 29.8 44.8#

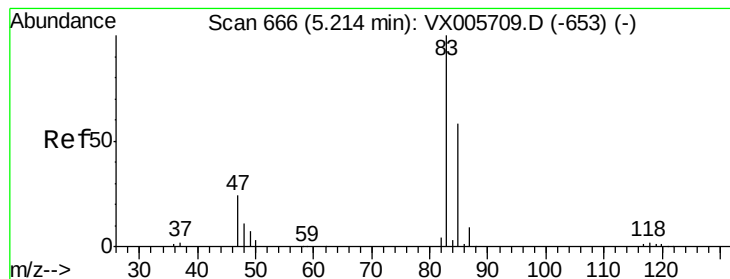


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#30

Chloroform

Concen: 0.417 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

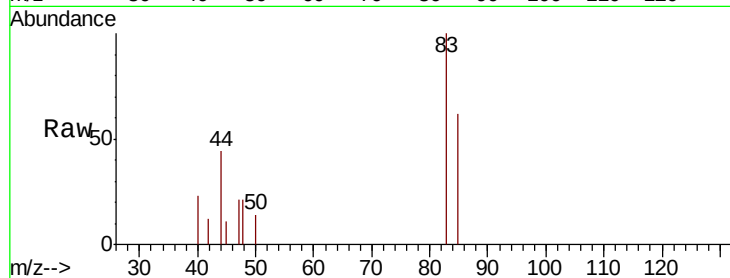
ClientSampled :

Tot Ion: 83 Resp: 1411

Ion Ratio Lower Upper

83 100

85 62.0 50.6 76.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

500

400

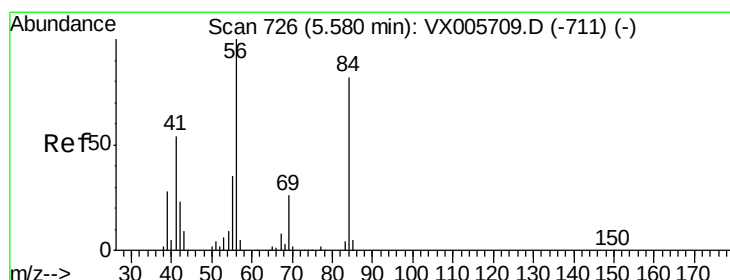
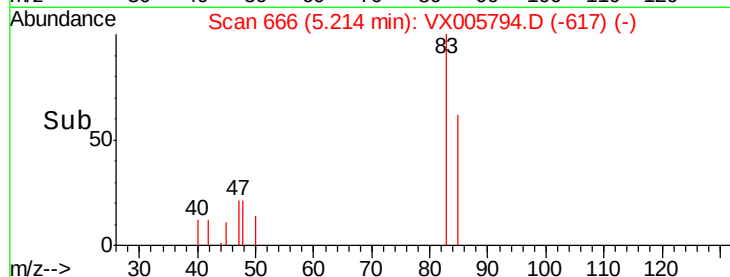
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.093 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

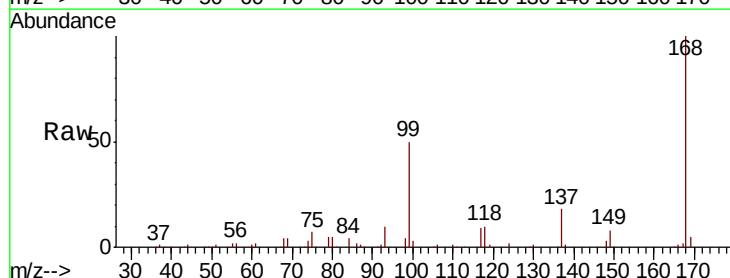
Tgt Ion: 56 Resp: 3160

Ion Ratio Lower Upper

56 100

69 192.1 22.6 34.0#

84 202.6 62.7 94.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

2500

2000

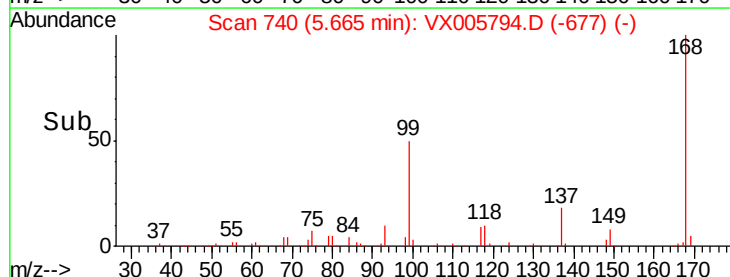
1500

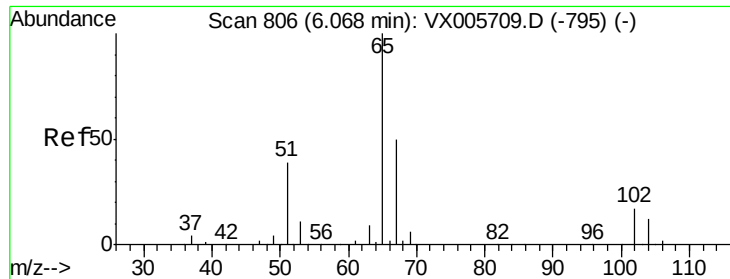
1000

500

0

Time-->

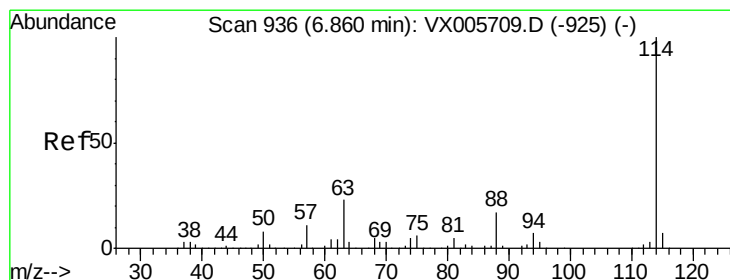
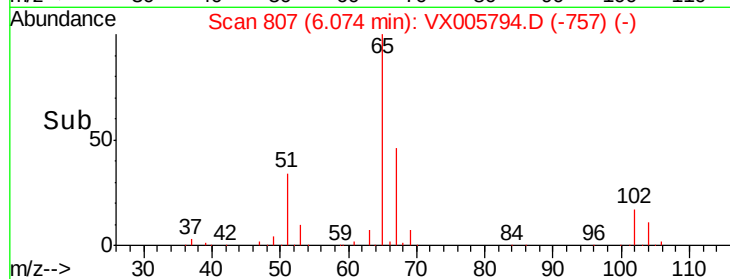
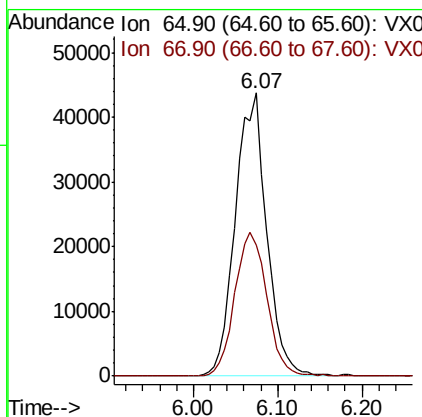
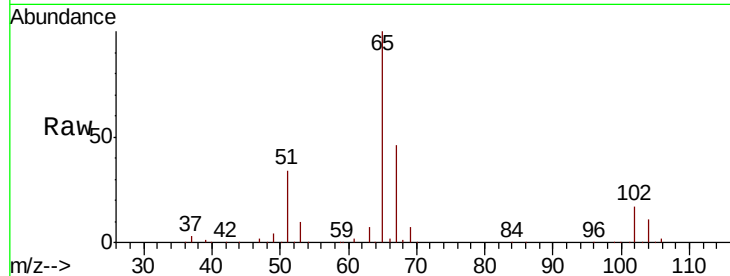




#33
 1,2-Dichloroethane-d4
 Concen: 50.678 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX005794.D
 Acq: 05 Nov 2018 22:17

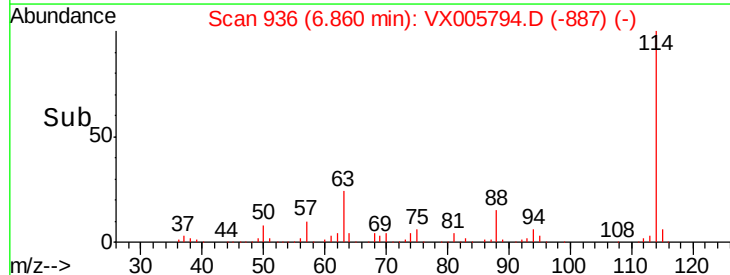
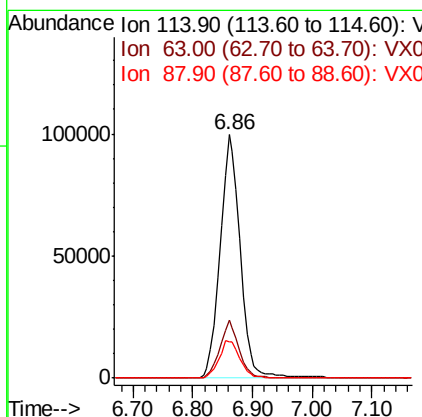
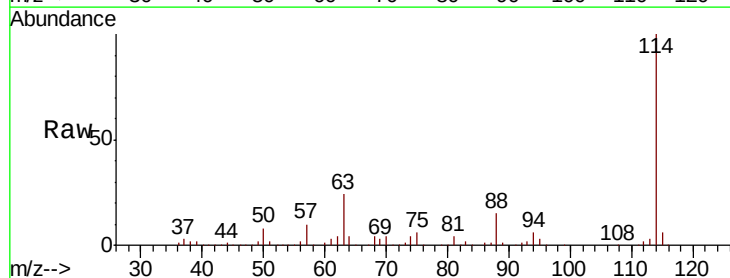
Instrument :
 MSVOA_X
 ClientSampleId :

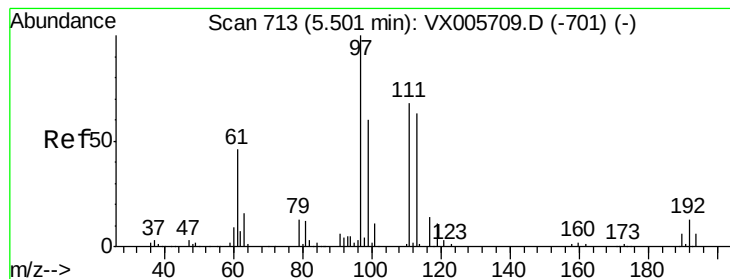
Tot Ion: 65 Resp: 109676
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005794.D
 Acq: 05 Nov 2018 22:17

Tgt Ion: 114 Resp: 234630
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 42.8
 88 15.1 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.263 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

ClientSampleId :

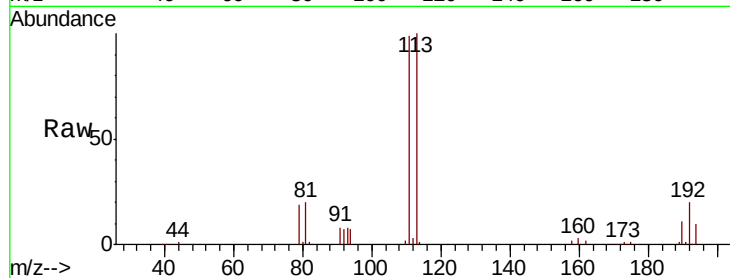
Tot Ion:113 Resp: 81657

Ion Ratio Lower Upper

113 100

111 100.6 82.3 123.5

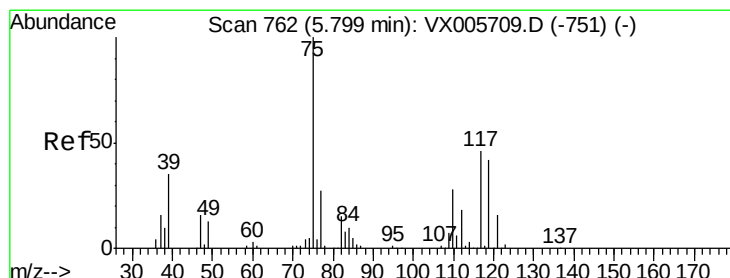
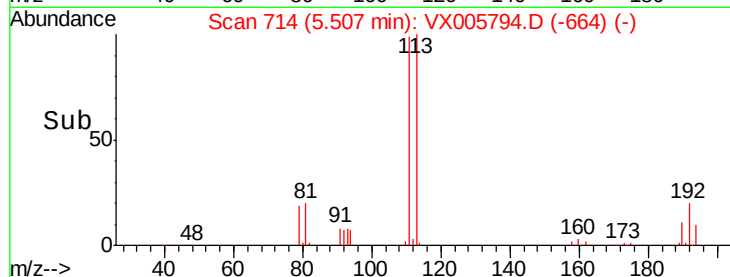
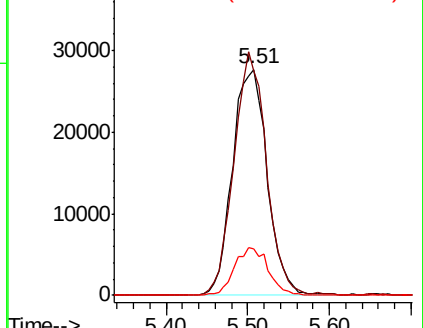
192 20.5 17.9 26.9



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: 4.775 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

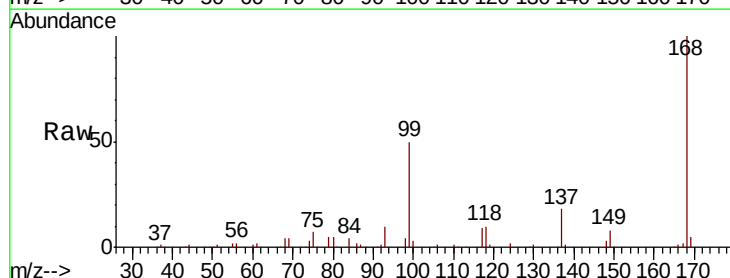
Tgt Ion: 75 Resp: 11937

Ion Ratio Lower Upper

75 100

110 8.4 17.4 52.2#

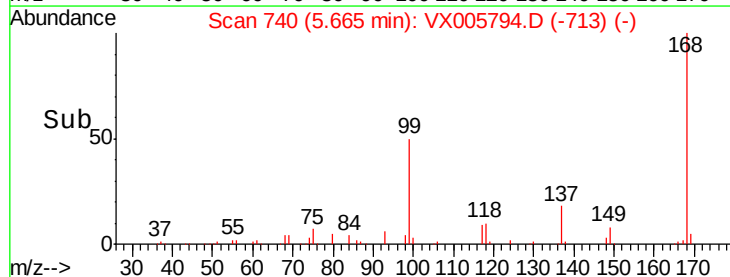
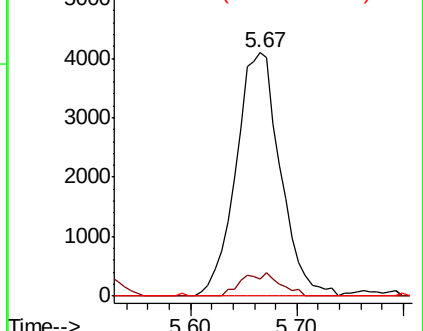
77 0.0 25.8 38.6#

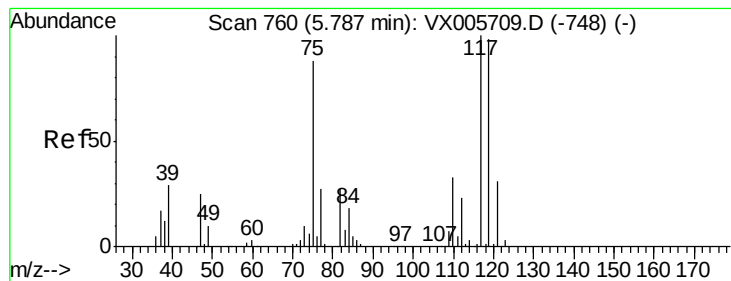


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.069 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

ClientSampleId :

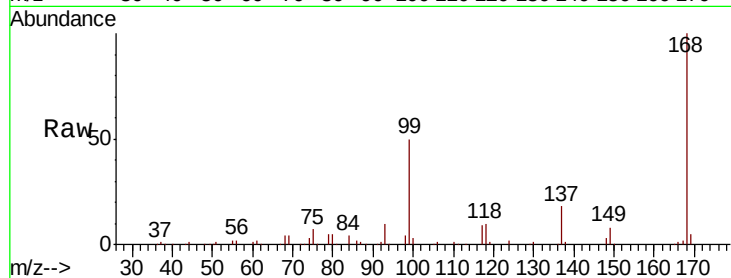
Tot Ion:117 Resp: 13706

Ion Ratio Lower Upper

117 100

119 5.8 78.1 117.1#

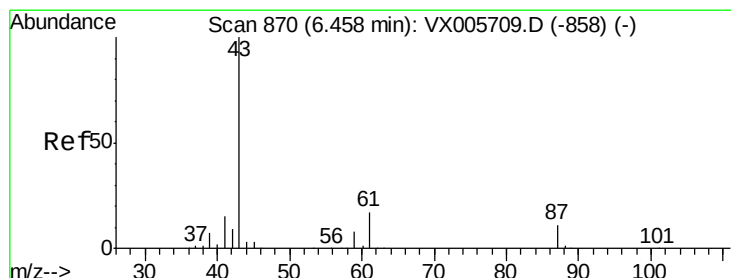
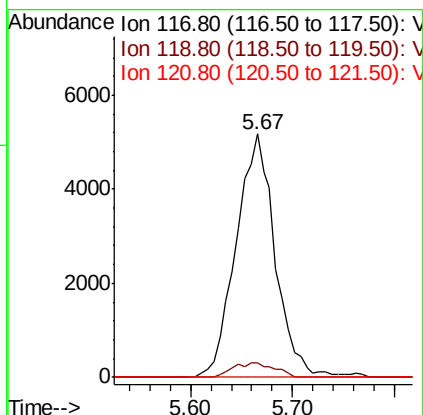
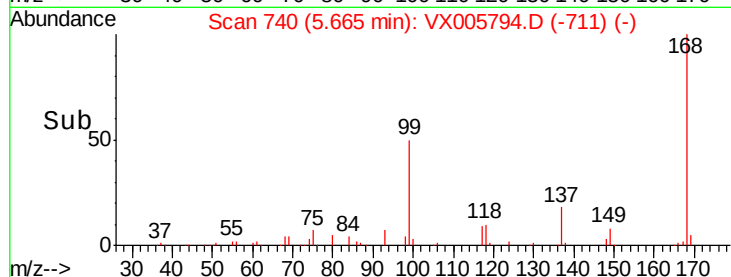
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 25.534 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

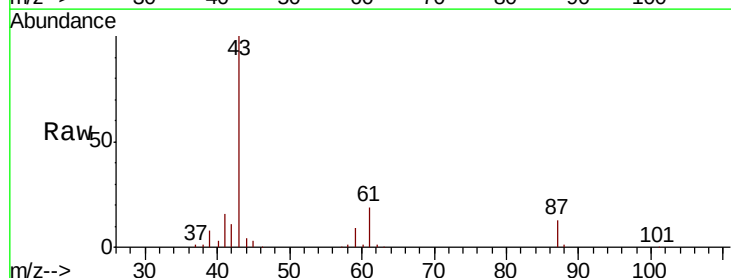
Tgt Ion: 43 Resp: 118194

Ion Ratio Lower Upper

43 100

61 20.3 14.6 22.0

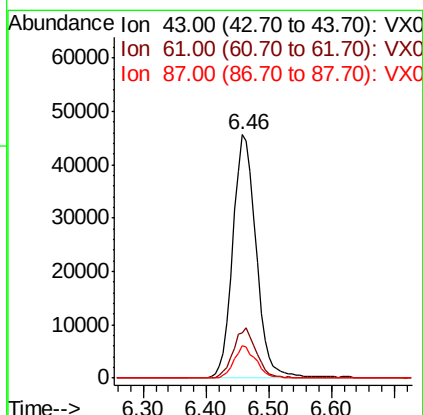
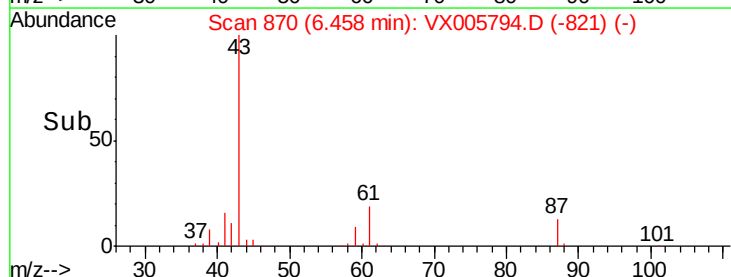
87 12.3 9.6 14.4

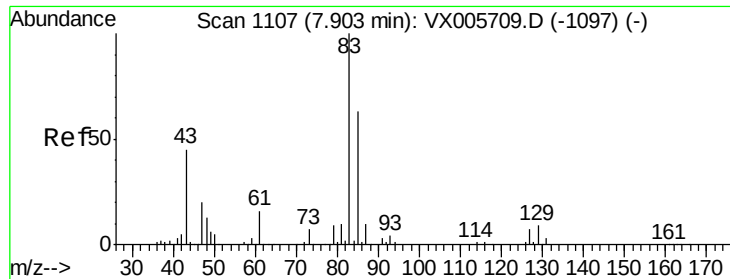


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#47

Bromodichloromethane

Concen: 0.261 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

ClientSampled :

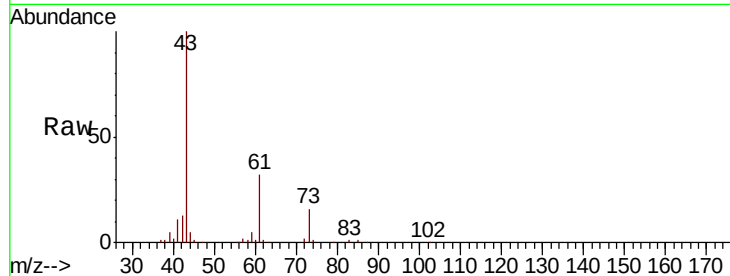
Tot Ion: 83 Resp: 596

Ion Ratio Lower Upper

83 100

85 56.5 50.2 75.4

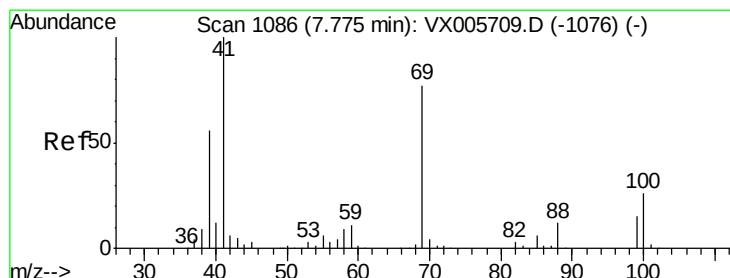
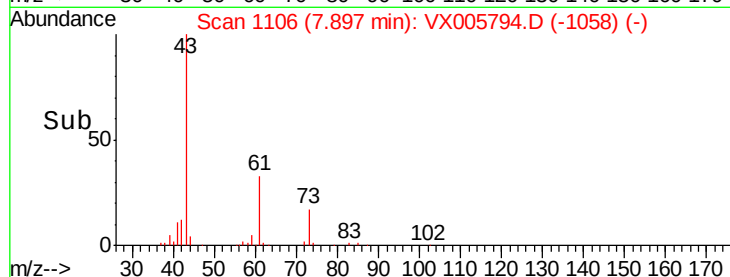
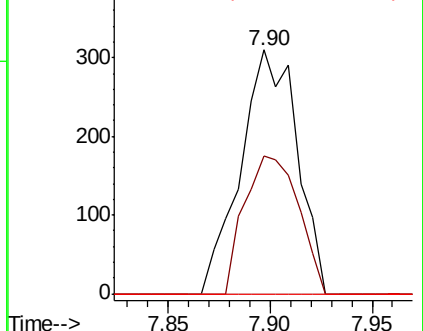
127 0.0 6.9 10.3#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.206 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

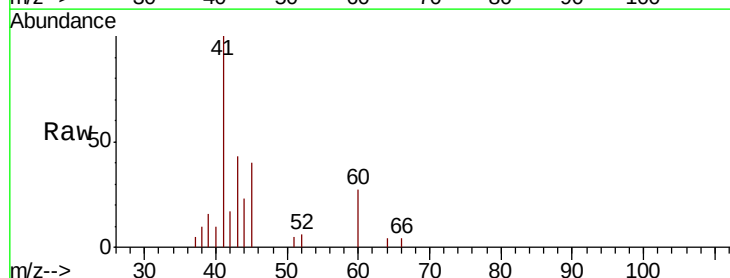
Tgt Ion: 41 Resp: 4943

Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

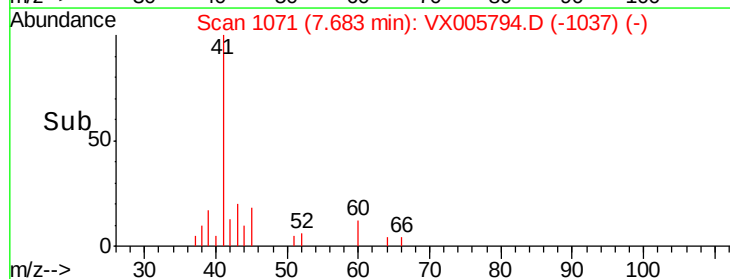
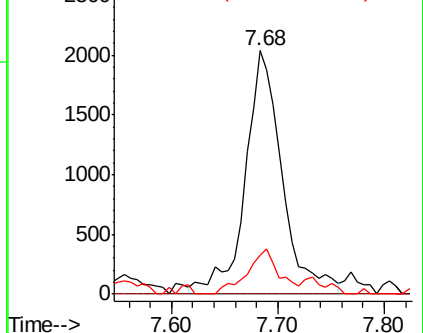
39 16.2 42.2 63.2#

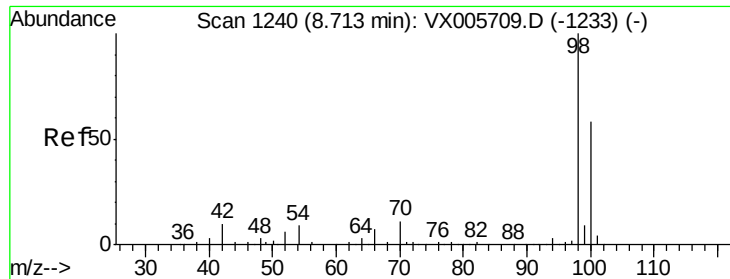


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

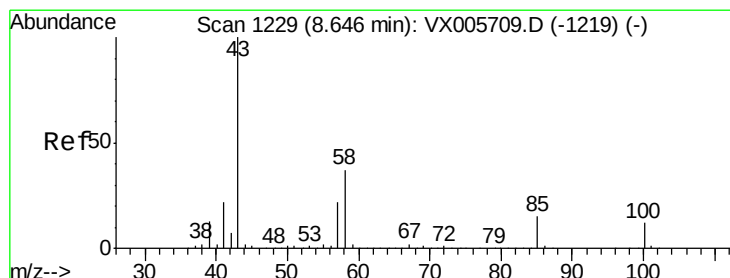
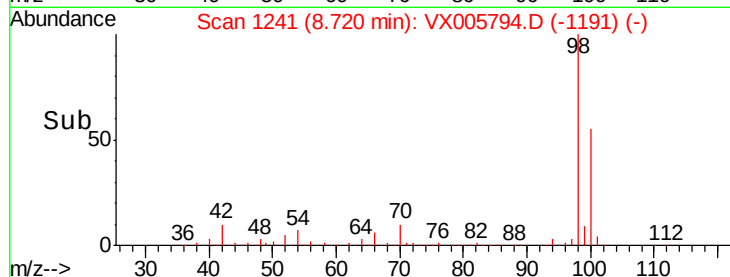
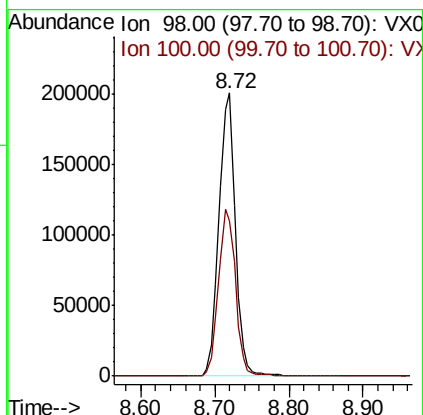
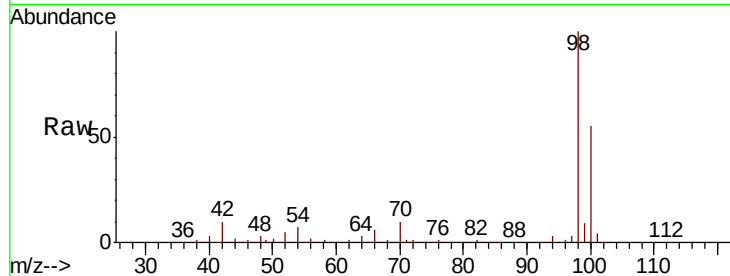




#50
Toluene-d8
Concen: 53.819 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

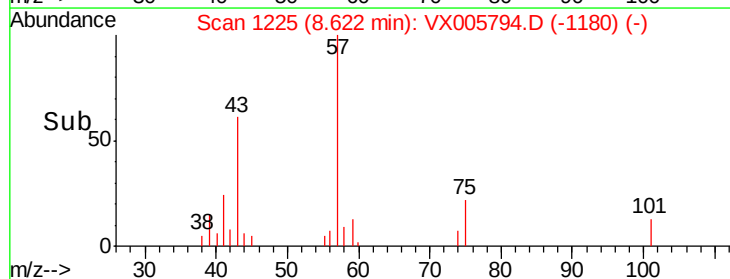
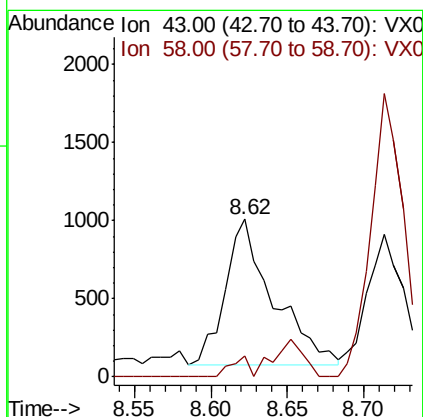
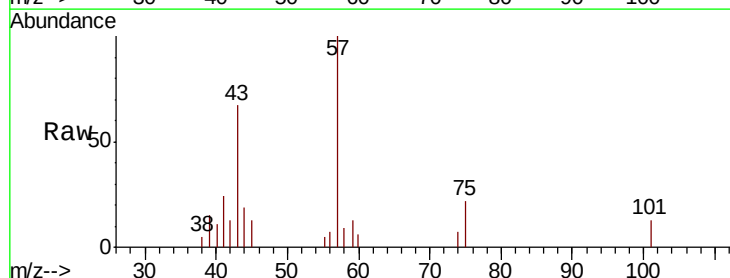
Instrument :
MSVOA_X
ClientSampleId :

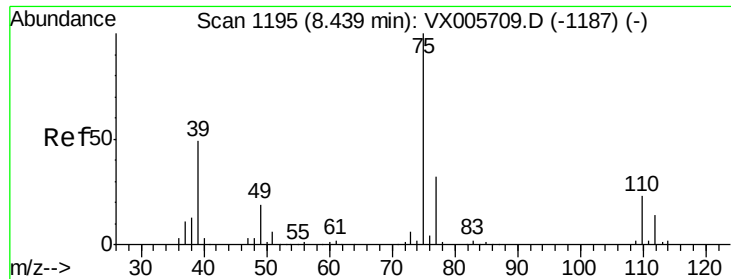
Tot Ion: 98 Resp: 306660
Ion Ratio Lower Upper
98 100
100 61.1 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.638 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

Tgt Ion: 43 Resp: 2015
Ion Ratio Lower Upper
43 100
58 5.2 29.7 44.5#



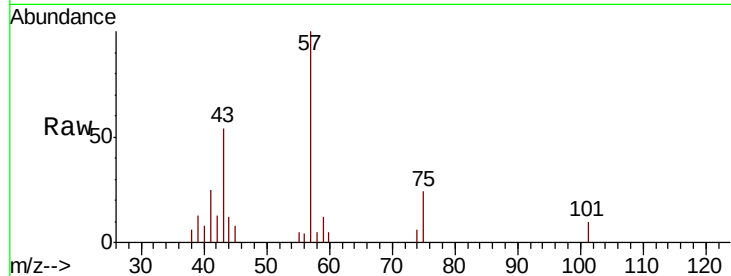


#54

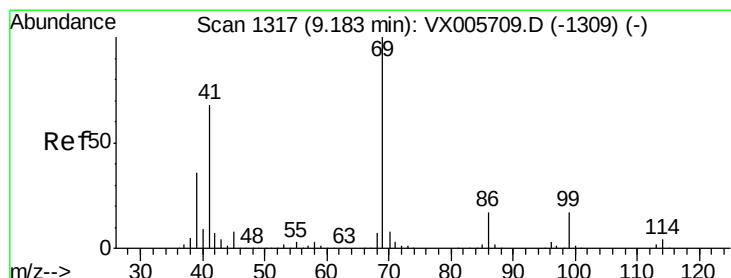
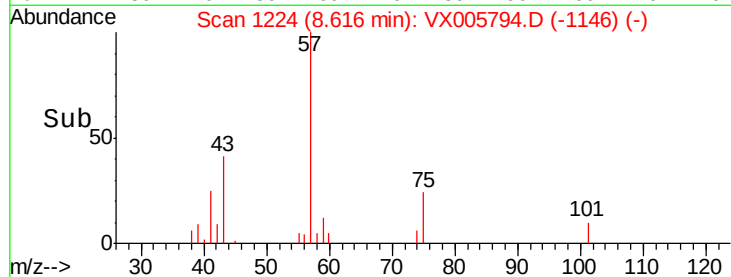
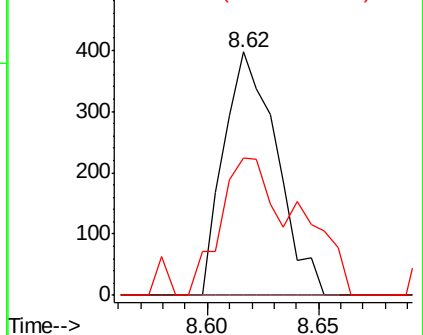
cis-1,3-Dichloropropene
 Concen: 0.247 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005794.D
 Acq: 05 Nov 2018 22:17

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 656
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 56.7 38.2 57.2



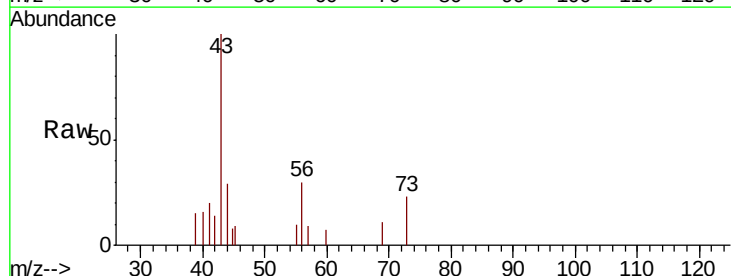
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



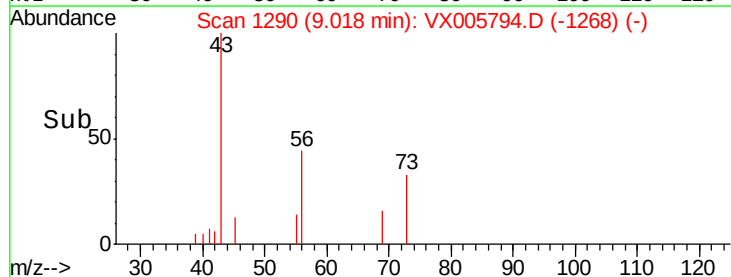
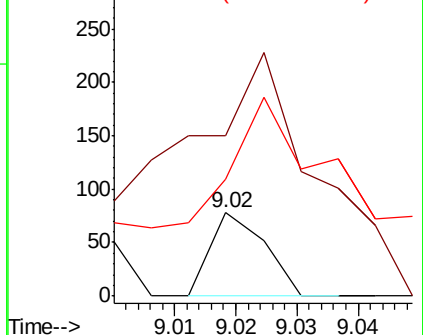
#56

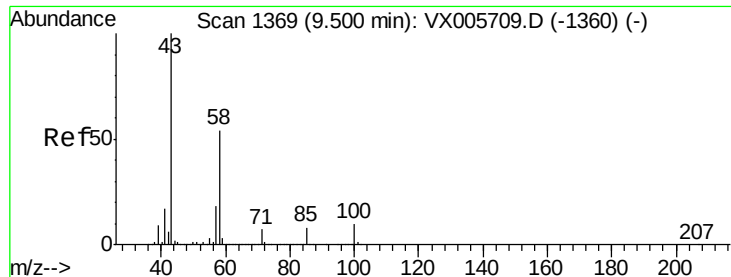
Ethyl methacrylate
 Concen: 2.486 ug/l
 RT: 9.02 min Scan# 1290
 Delta R.T. -0.16 min
 Lab File: VX005794.D
 Acq: 05 Nov 2018 22:17

Tgt Ion: 69 Resp: 48
 Ion Ratio Lower Upper
 69 100
 41 847.9 57.0 85.6#
 39 579.2 28.3 42.5#



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

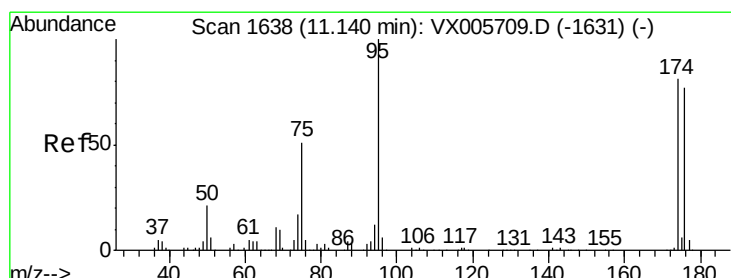
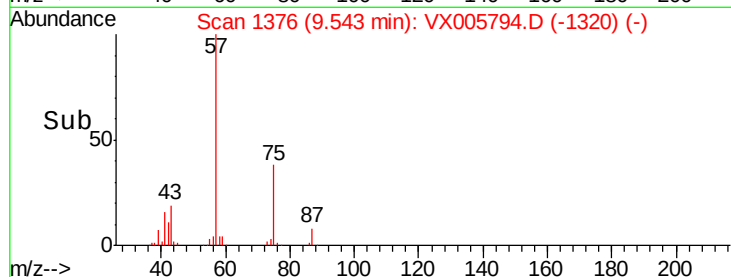
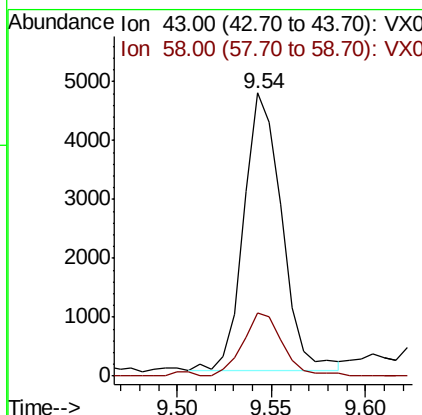
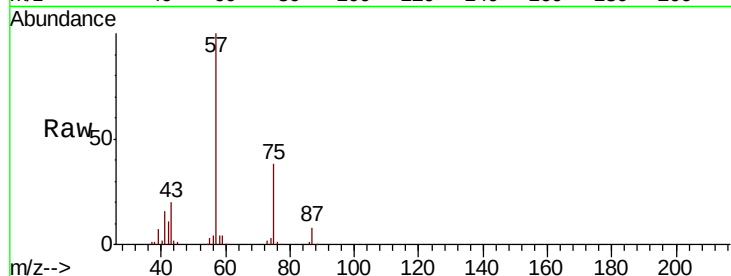




#59
2-Hexanone
Concen: 2.543 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

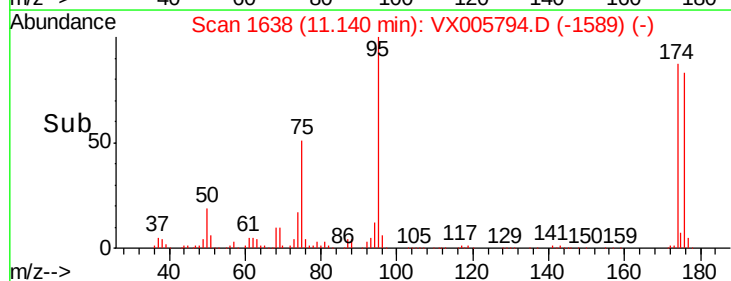
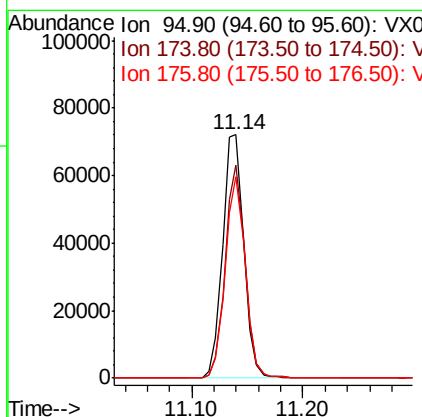
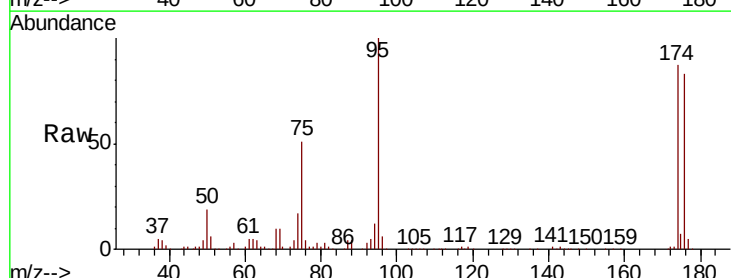
Instrument :
MSVOA_X
ClientSampled :

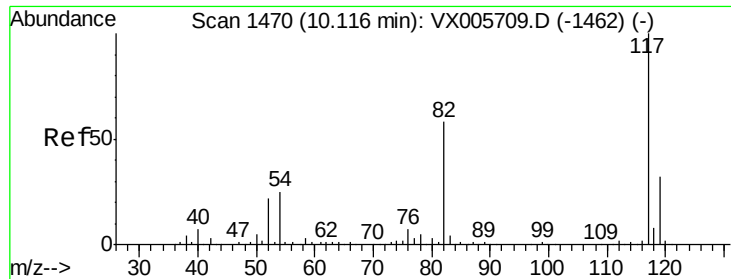
Tot Ion: 43 Resp: 6532
Ion Ratio Lower Upper
43 100
58 24.3 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 45.242 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

Tgt Ion: 95 Resp: 95142
Ion Ratio Lower Upper
95 100
174 82.2 0.0 184.4
176 78.3 0.0 177.4

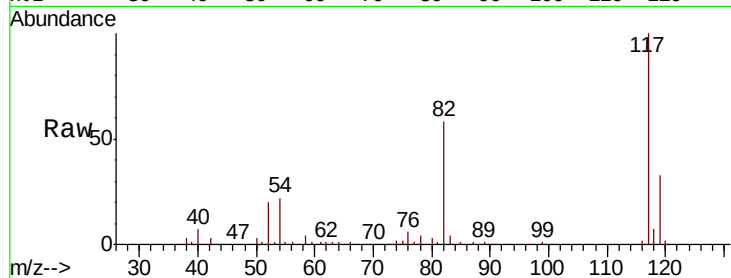




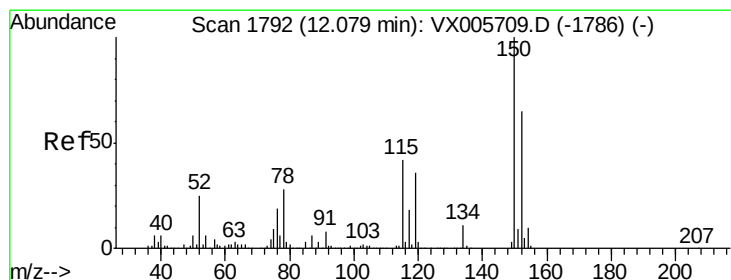
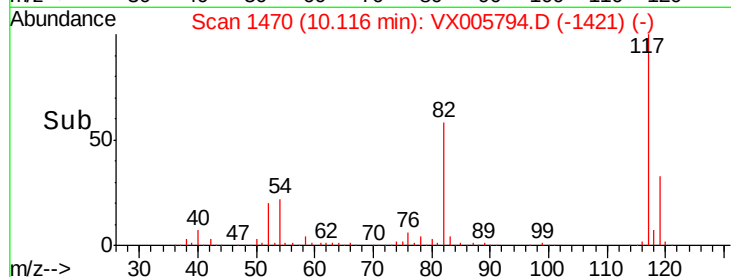
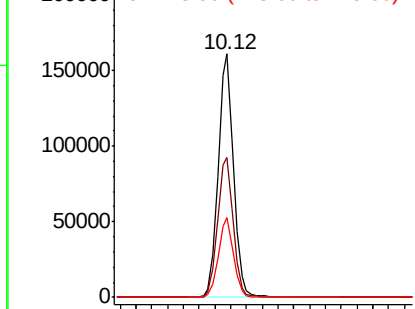
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 218076
Ion Ratio Lower Upper
117 100
82 57.7 44.1 66.1
119 32.6 26.2 39.2

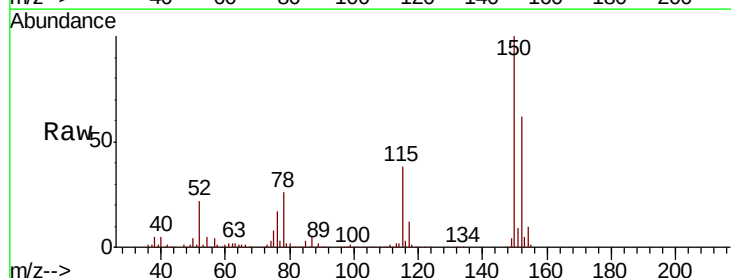


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

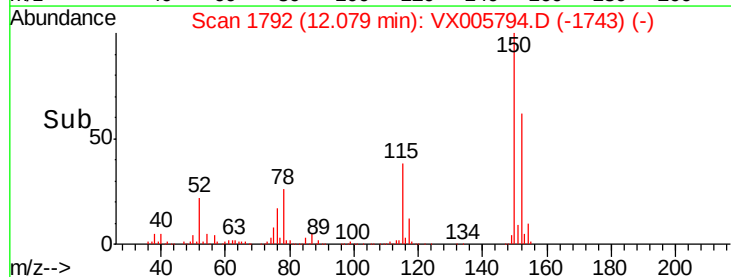
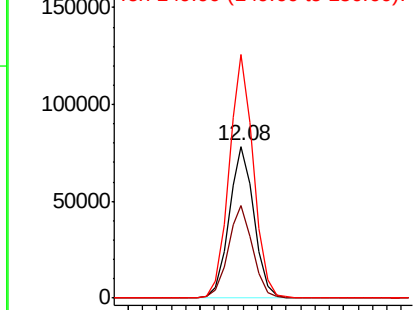


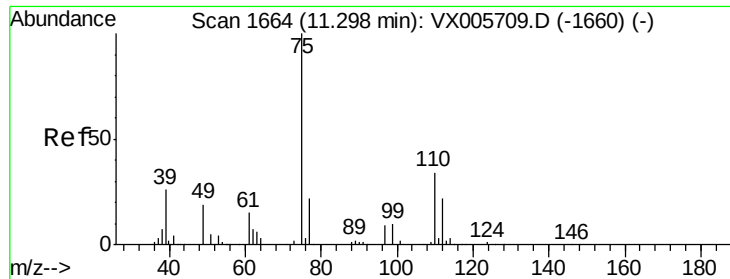
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

Tgt Ion:152 Resp: 94518
Ion Ratio Lower Upper
152 100
115 60.1 39.4 118.1
150 157.5 0.0 346.4



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: 21.199 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

Instrument :

MSVOA_X

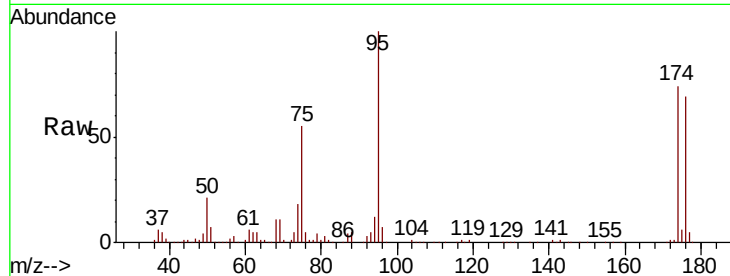
ClientSampleId :

Tot Ion: 75 Resp: 49905

Ion Ratio Lower Upper

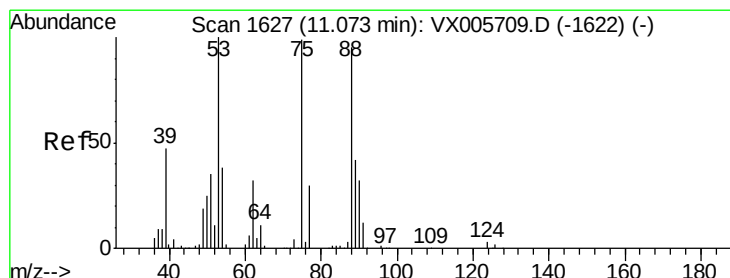
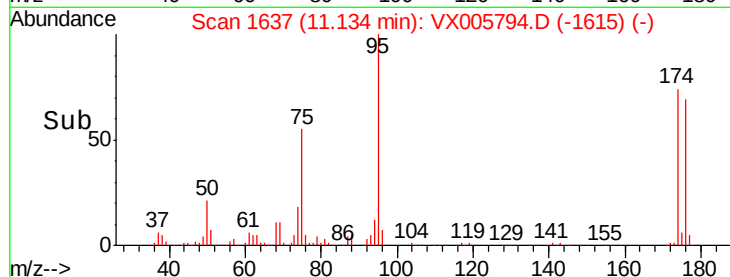
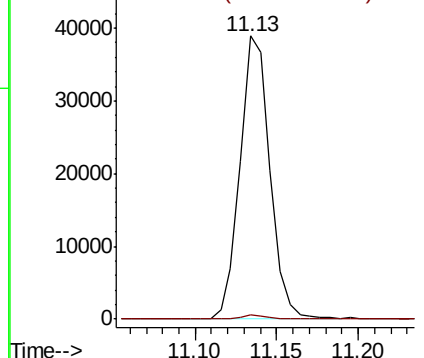
75 100

77 1.4 20.5 61.6#



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: 68.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005794.D

Acq: 05 Nov 2018 22:17

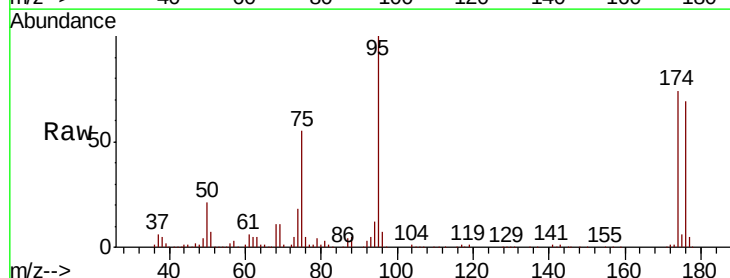
Tgt Ion: 75 Resp: 49905

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.2#

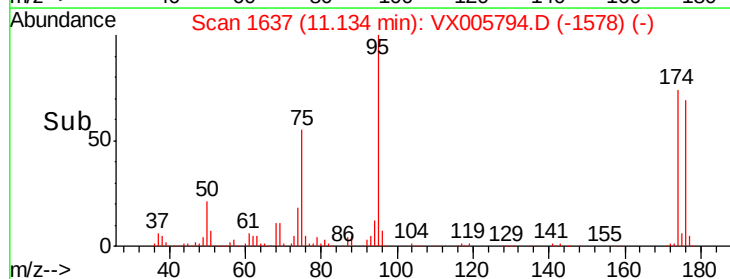
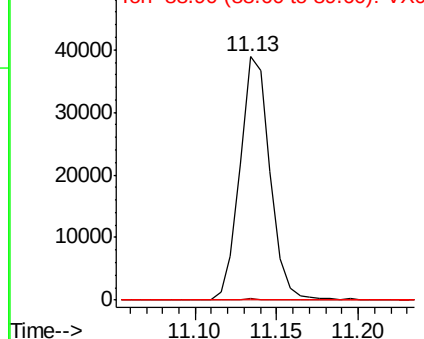
89 0.0 39.8 59.8#

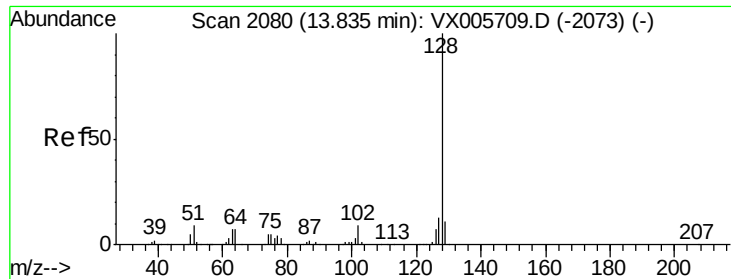


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 0.744 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005794.D
Acq: 05 Nov 2018 22:17

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.2	10.4	15.6#
129	10.3	8.7	13.1

