

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020620\
 Data File : VX014854.D
 Acq On : 06 Feb 2020 17:43
 Operator : JC/SP
 Sample : K1437-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 00:50:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	461397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	711632	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	658961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	317790	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	257635	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
35) Dibromofluoromethane	5.49	113	209863	46.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.48%	
50) Toluene-d8	8.71	98	851179	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.13	95	300672	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	

Target Compounds

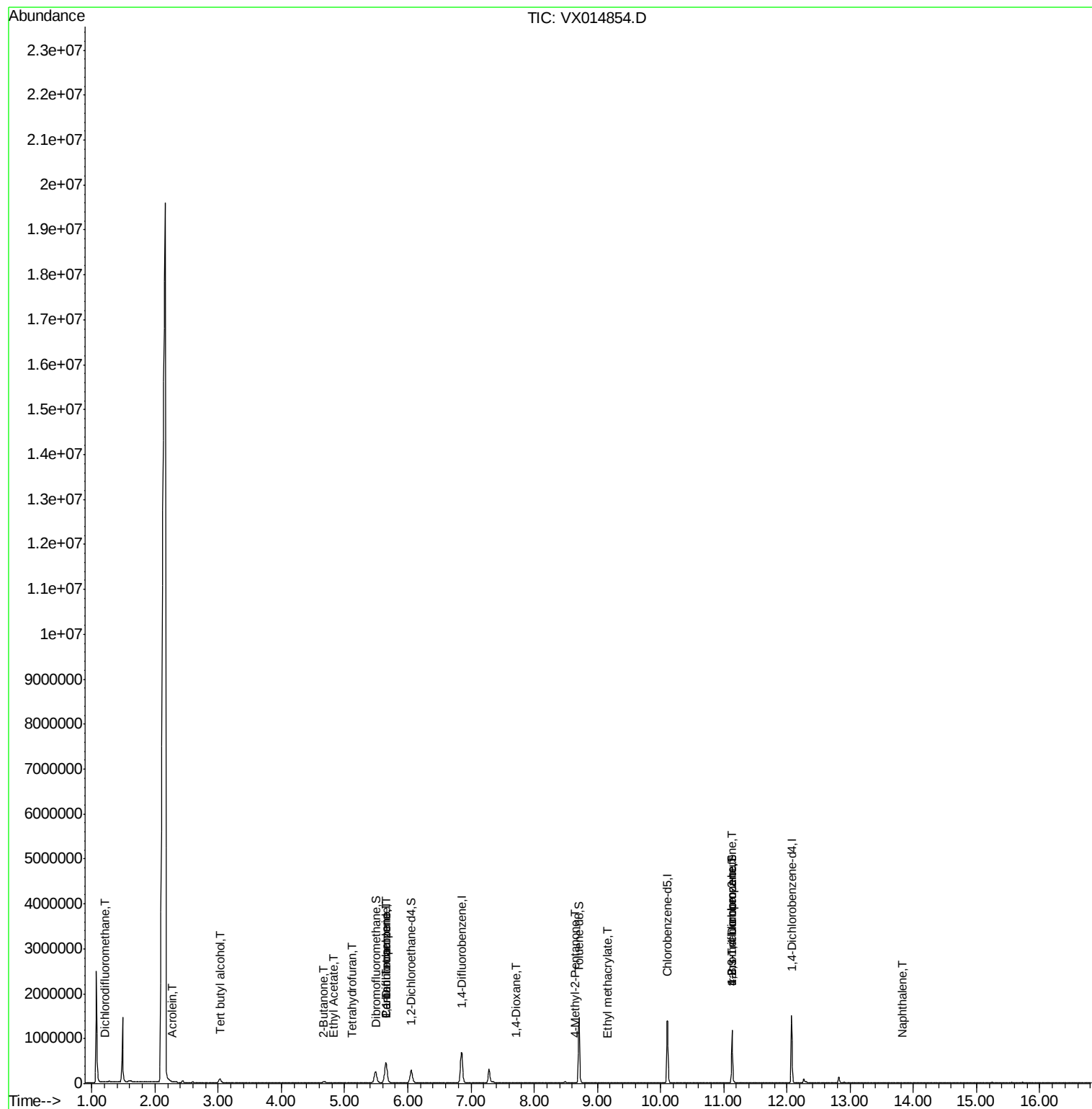
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	447	0.603	ug/l #	42
6) Chloroethane	1.69	64	688	Below Cal	#	43
11) Tert butyl alcohol	3.03	59	106167	87.765	ug/l	99
13) Acrolein	2.28	56	593	0.622	ug/l	92
25) 2-Butanone	4.67	43	9023	2.133	ug/l	96
29) Tetrahydrofuran	5.13	42	770	0.307	ug/l #	81
36) 1,1-Dichloropropene	5.65	75	31748	4.801	ug/l #	51
37) Ethyl Acetate	4.83	43	8919	1.178	ug/l #	89
38) Carbon Tetrachloride	5.65	117	39580	6.267	ug/l #	16
41) Methacrylonitrile	5.01	41	454	Below Cal	#	63
49) 1,4-Dioxane	7.72	88	163	1.298	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1914	0.245	ug/l #	36
56) Ethyl methacrylate	9.15	69	243	1.811	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	148271	20.054	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	148271	57.070	ug/l #	11
95) Naphthalene	13.83	128	2758	1.053	ug/l #	70

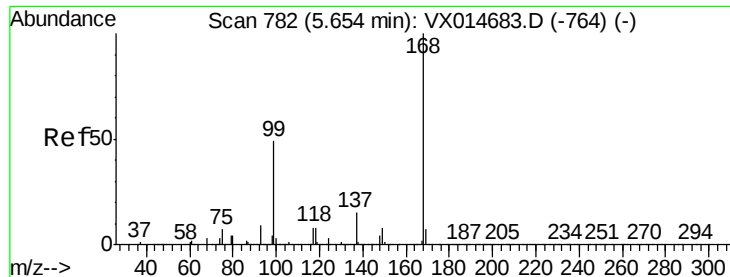
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

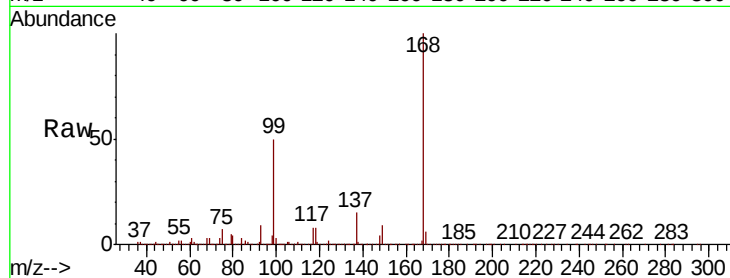
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 461397

Ion Ratio Lower Upper

168 100

99 49.8 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

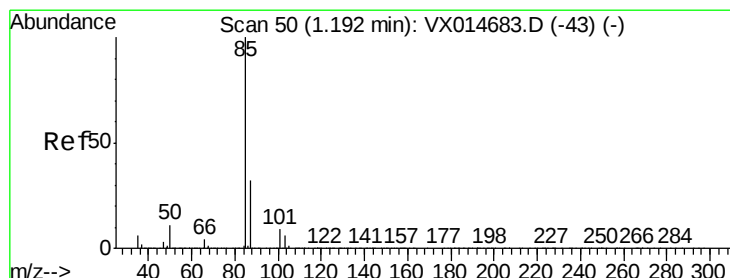
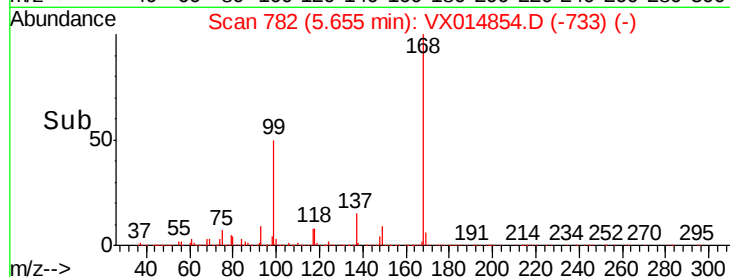
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.603 ug/l

RT: 1.20 min Scan# 52

Delta R.T. 0.01 min

Lab File: VX014854.D

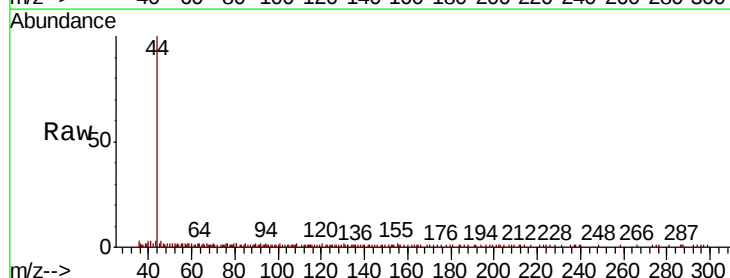
Acq: 06 Feb 2020 17:43

Tgt Ion: 85 Resp: 447

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

300

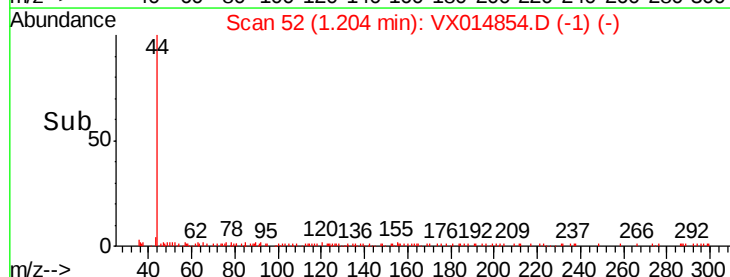
200

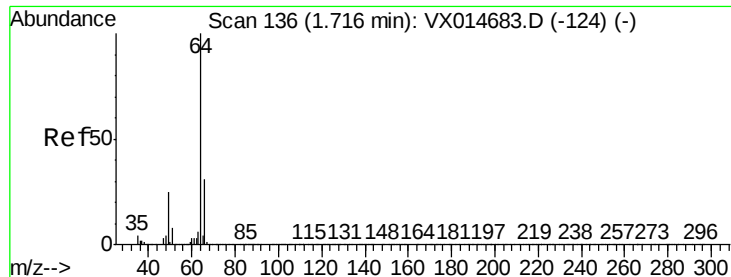
100

0

Time-->

1.20 1.25





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 132

Delta R.T. -0.02 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

Instrument :

MSVOA_X

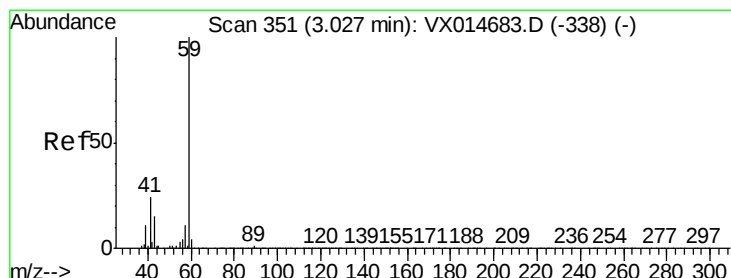
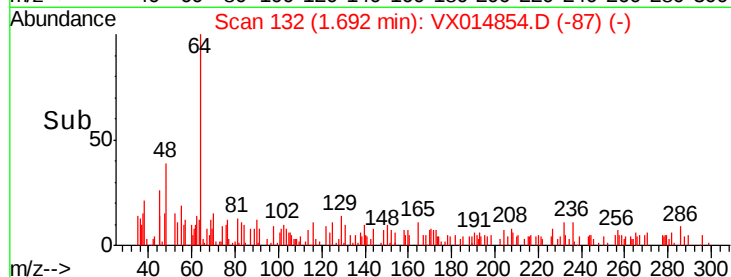
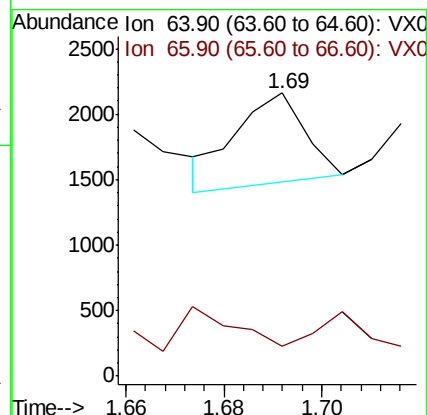
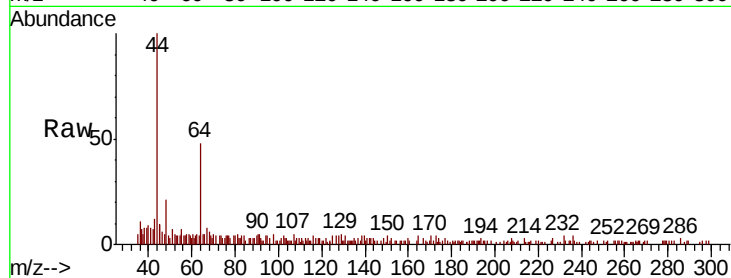
ClientSampleId :

Tot Ion: 64 Resp: 688

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#11

Tert butyl alcohol

Concen: 87.765 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.00 min

Lab File: VX014854.D

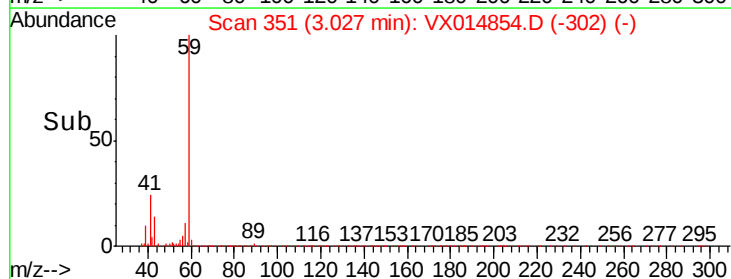
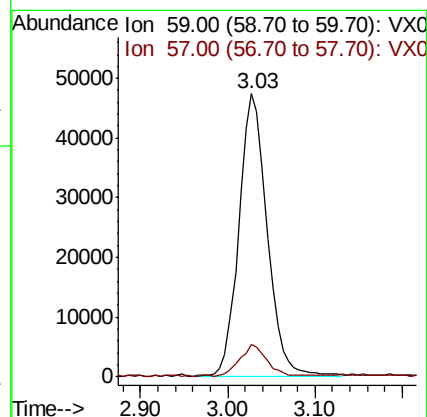
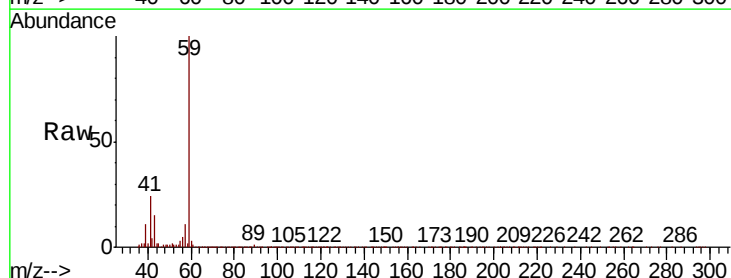
Acq: 06 Feb 2020 17:43

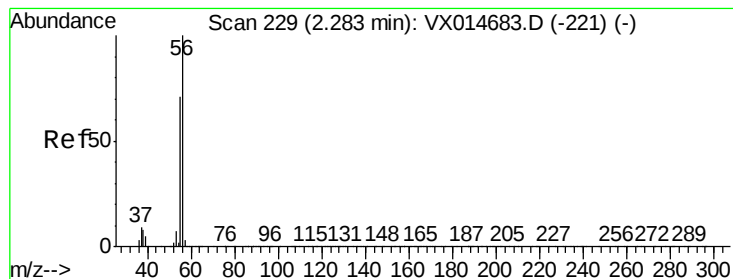
Tgt Ion: 59 Resp: 106167

Ion Ratio Lower Upper

59 100

57 10.6 8.3 12.5





#13

Acrolein

Concen: 0.622 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

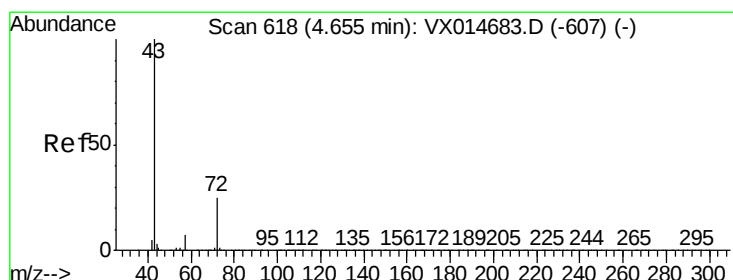
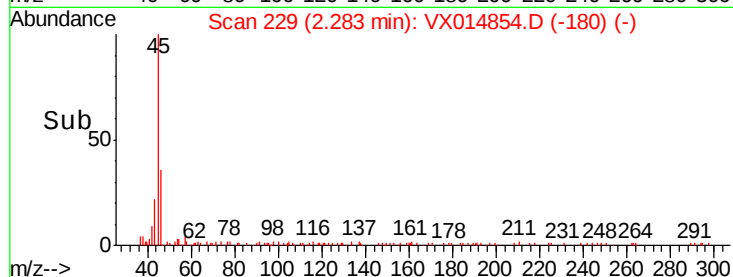
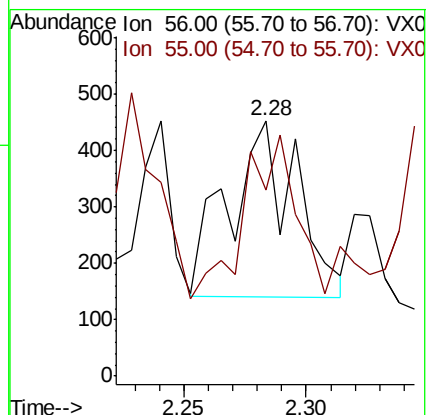
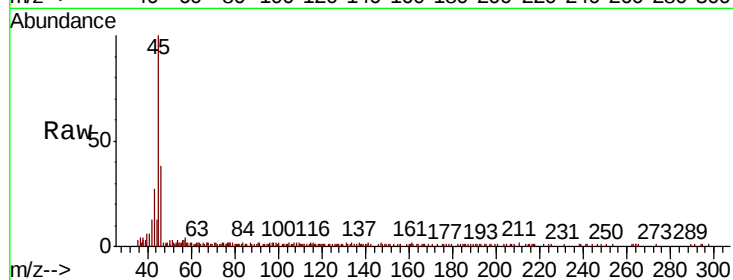
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 593

Ion Ratio Lower Upper

56 100

55 63.7 56.6 84.8



#25

2-Butanone

Concen: 2.133 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX014854.D

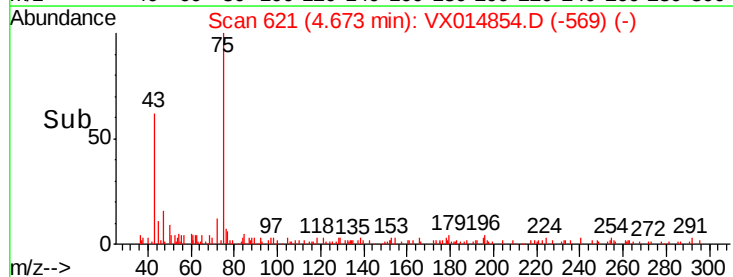
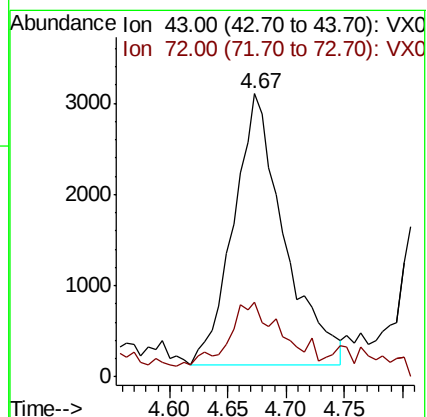
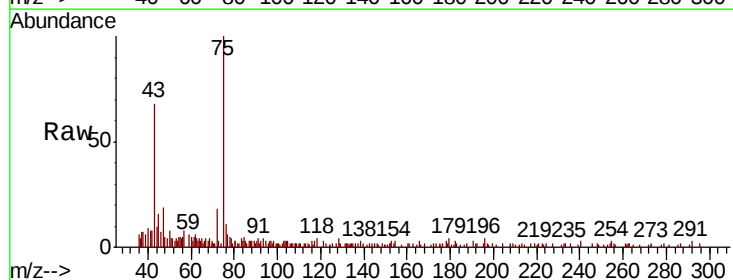
Acq: 06 Feb 2020 17:43

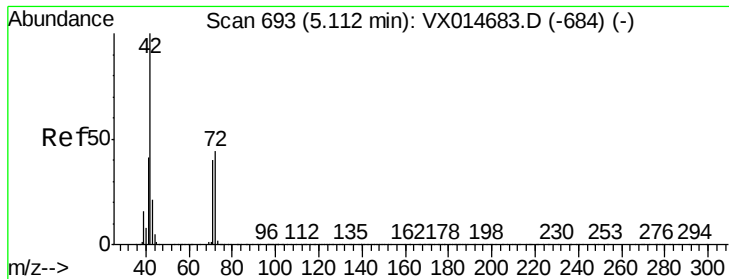
Tgt Ion: 43 Resp: 9023

Ion Ratio Lower Upper

43 100

72 22.9 19.9 29.9





#29

Tetrahydrofuran

Concen: 0.307 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

Instrument :

MSVOA_X

ClientSampled :

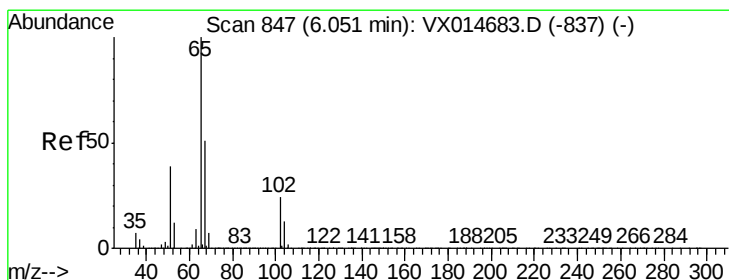
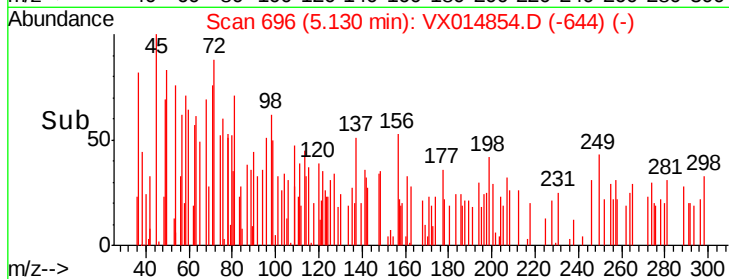
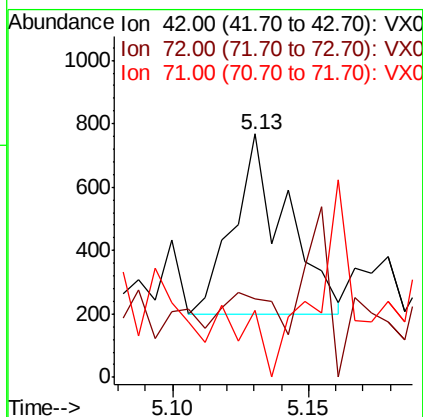
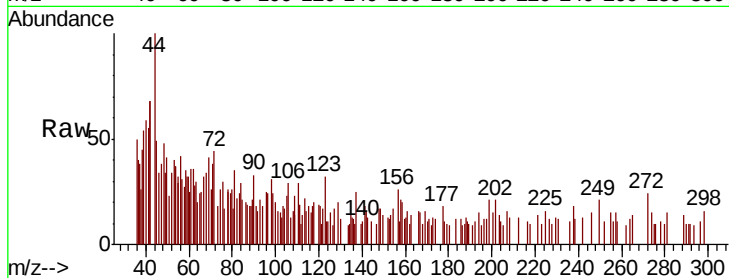
Tot Ion: 42 Resp: 770

Ion Ratio Lower Upper

42 100

72 35.5 35.3 52.9

71 26.2 33.1 49.7#



#33

1,2-Dichloroethane-d4

Concen: 47.816 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014854.D

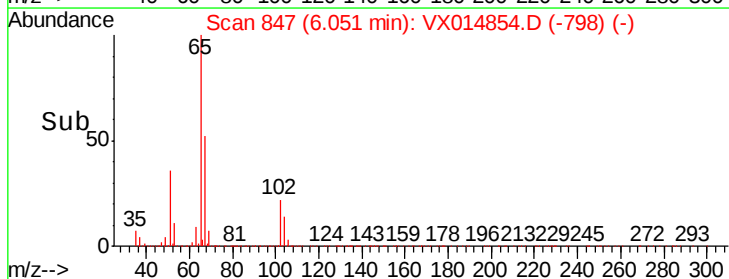
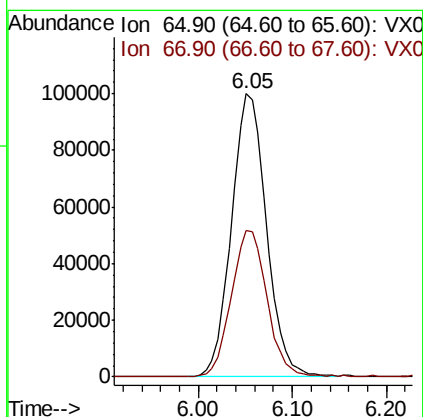
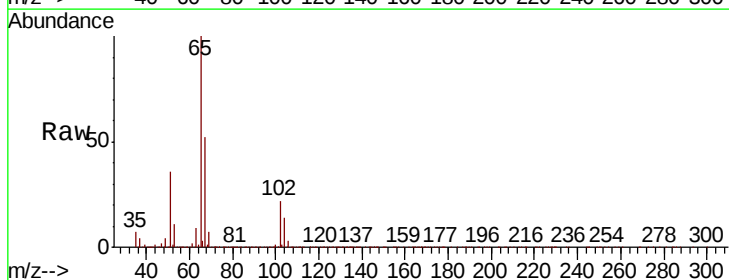
Acq: 06 Feb 2020 17:43

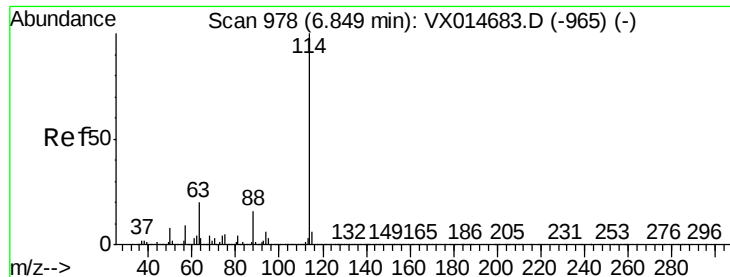
Tgt Ion: 65 Resp: 257635

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

Instrument :

MSVOA_X

ClientSampleId :

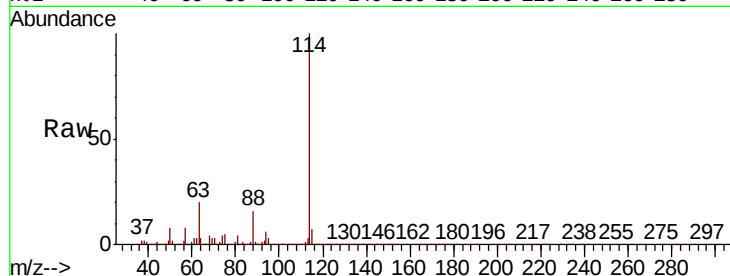
Tot Ion:114 Resp: 711632

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.6

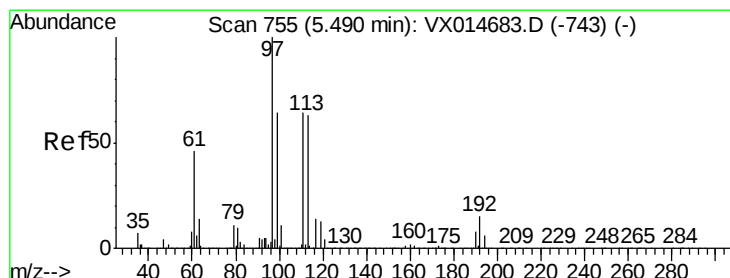
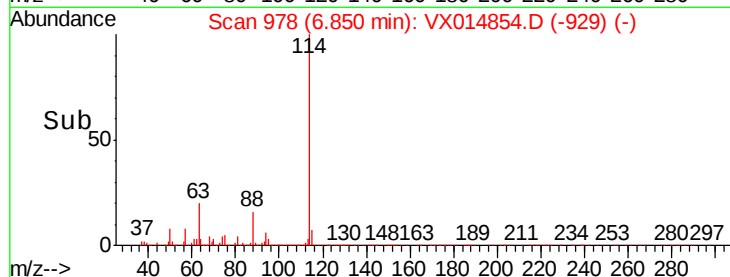
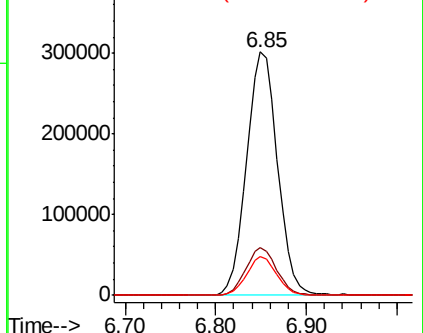
88 15.8 0.0 31.2



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: 46.736 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

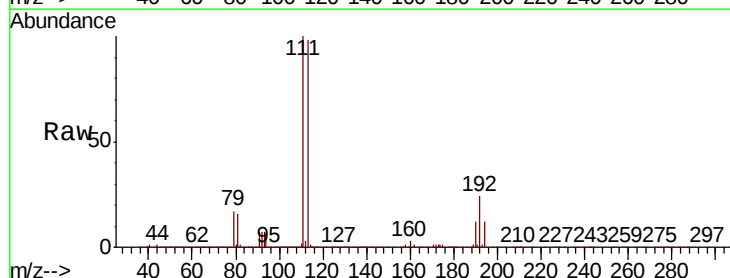
Tgt Ion:113 Resp: 209863

Ion Ratio Lower Upper

113 100

111 102.3 80.7 121.1

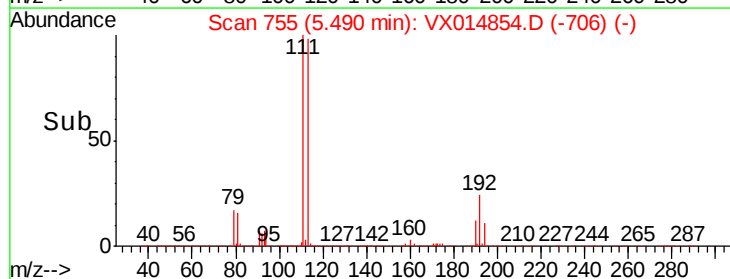
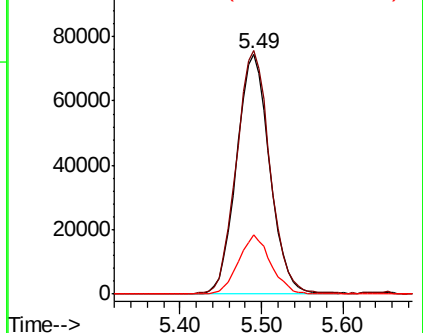
192 24.1 18.5 27.7

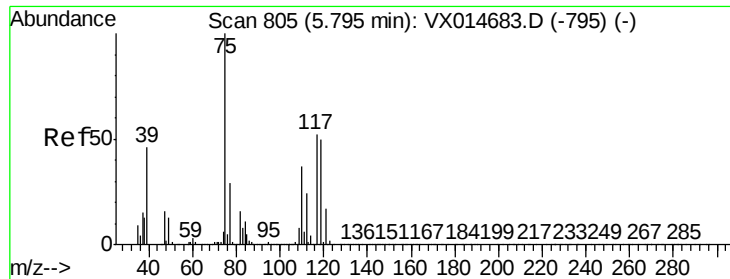


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

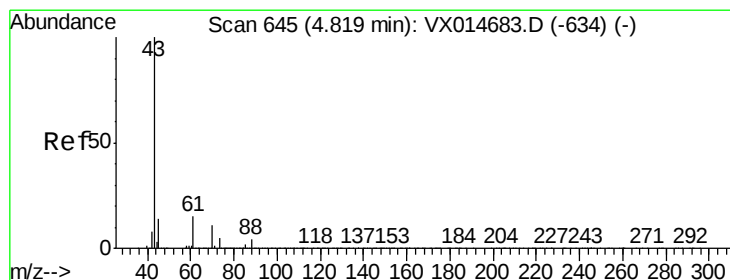
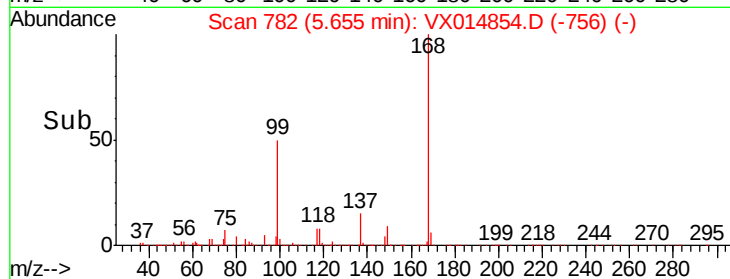
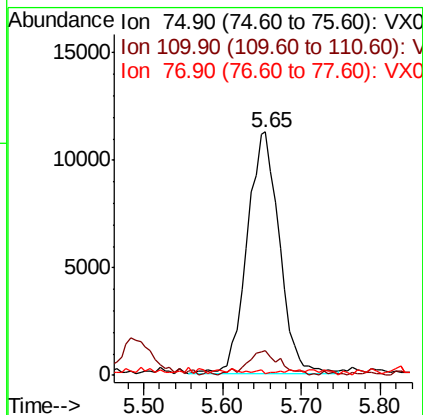
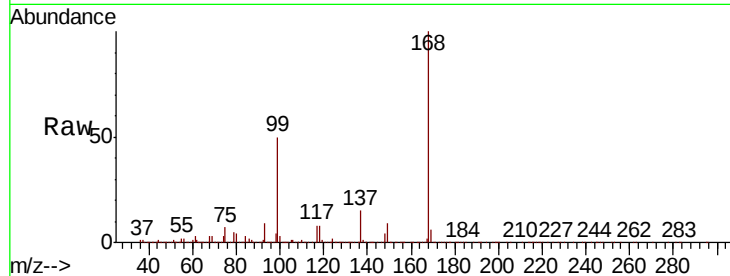




#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014854.D
 Acq: 06 Feb 2020 17:43

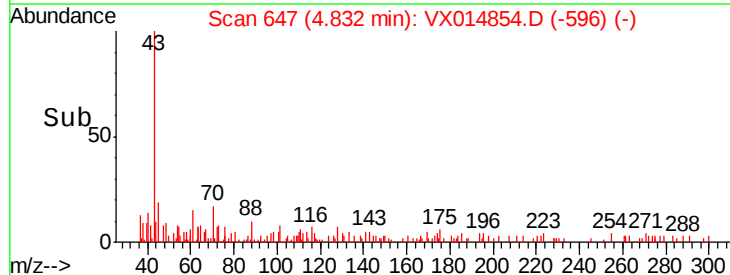
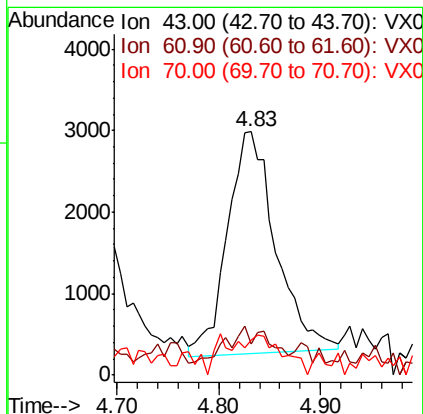
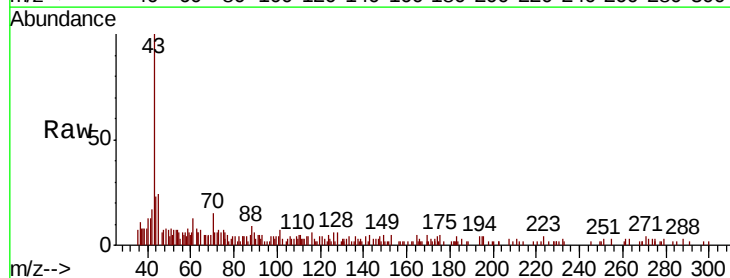
Instrument :
 MSVOA_X
 ClientSampleId :

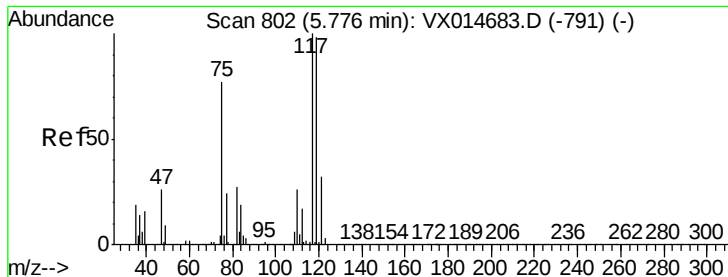
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	17.9	53.7#
77	0.0	24.1	36.1#



#37
 Ethyl Acetate
 Concen: 1.178 ug/l
 RT: 4.83 min Scan# 647
 Delta R.T. 0.01 min
 Lab File: VX014854.D
 Acq: 06 Feb 2020 17:43

Tgt Ion	Ratio	Lower	Upper
43	100		
61	7.6	11.0	16.4#
70	12.3	8.5	12.7





#38

Carbon Tetrachloride

Concen: 6.267 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

Instrument :

MSVOA_X

ClientSampled :

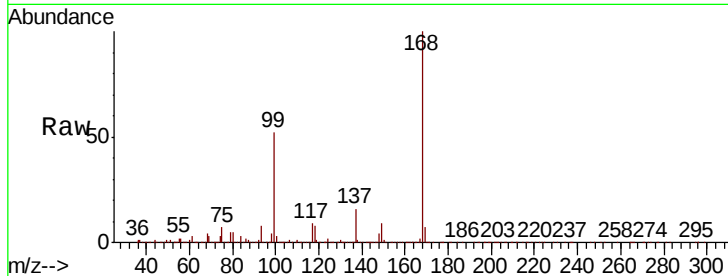
Tot Ion:117 Resp: 39580

Ion Ratio Lower Upper

117 100

119 5.6 77.9 116.9#

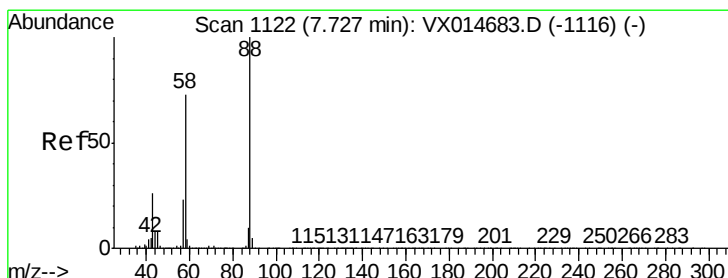
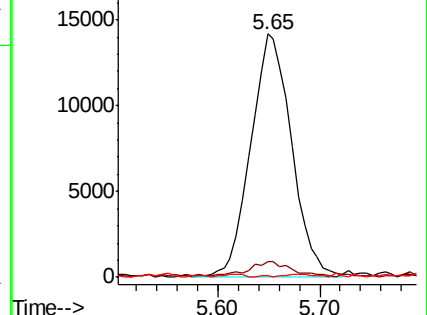
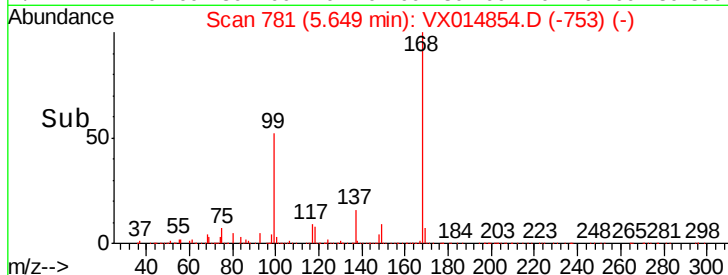
121 0.2 25.4 38.2#



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



#49

1,4-Dioxane

Concen: 1.298 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

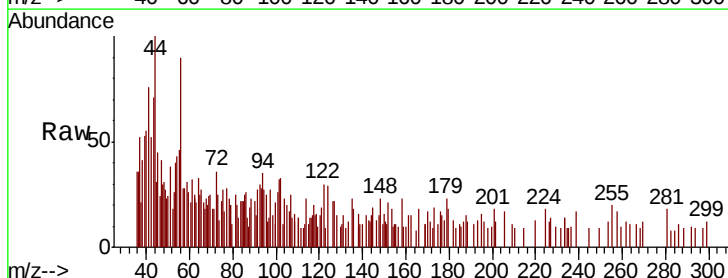
Tgt Ion: 88 Resp: 163

Ion Ratio Lower Upper

88 100

43 223.9 26.2 39.2#

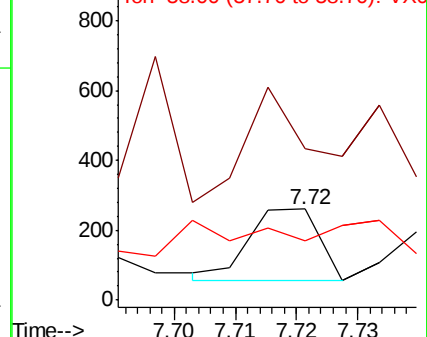
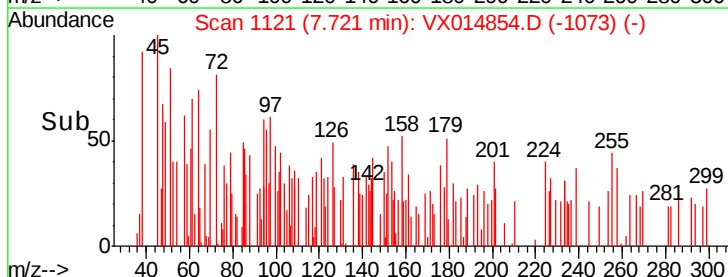
58 0.0 56.6 85.0#

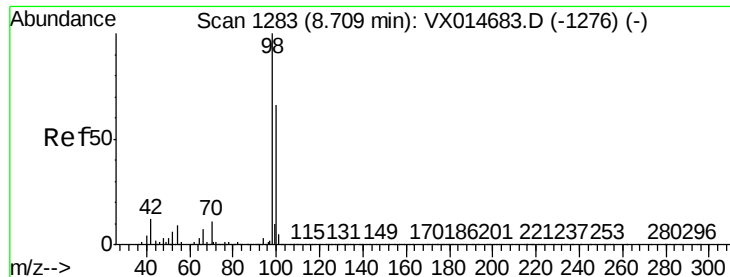


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

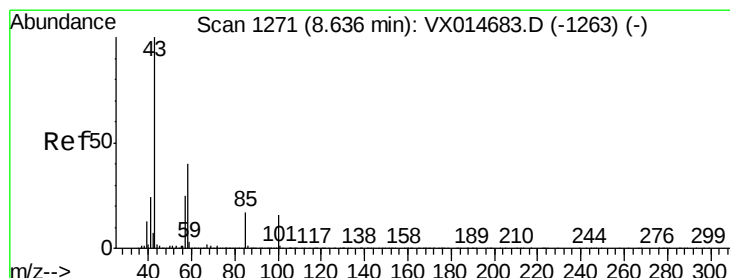
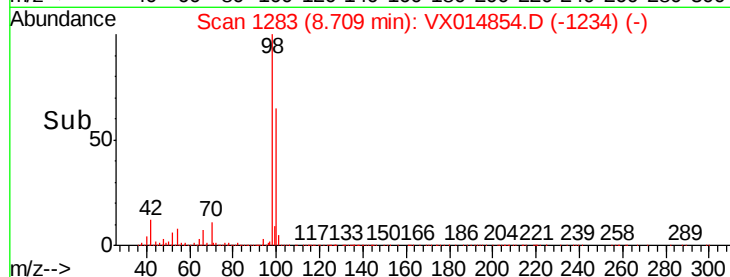
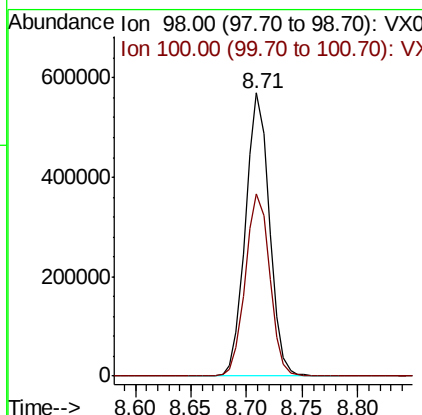
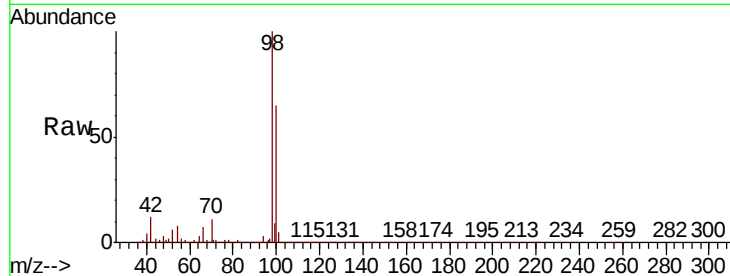




#50
Toluene-d8
Concen: 49.307 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014854.D
Acq: 06 Feb 2020 17:43

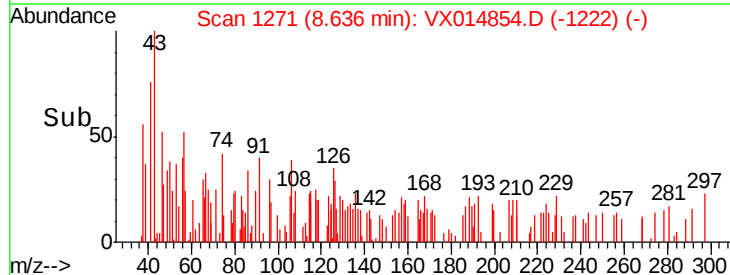
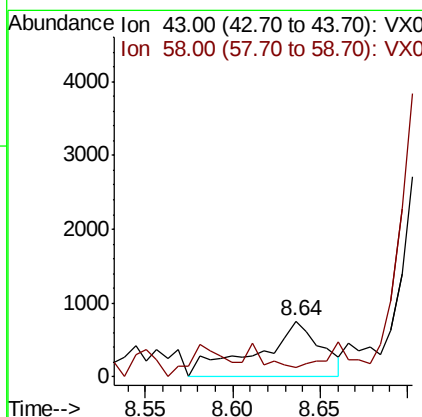
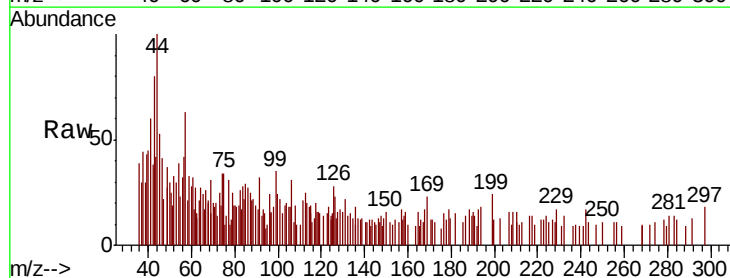
Instrument :
MSVOA_X
ClientSampleId :

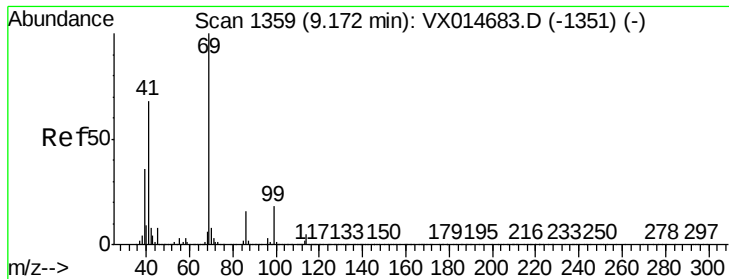
Tot Ion: 98 Resp: 851179
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 0.245 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014854.D
Acq: 06 Feb 2020 17:43

Tgt Ion: 43 Resp: 1914
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#

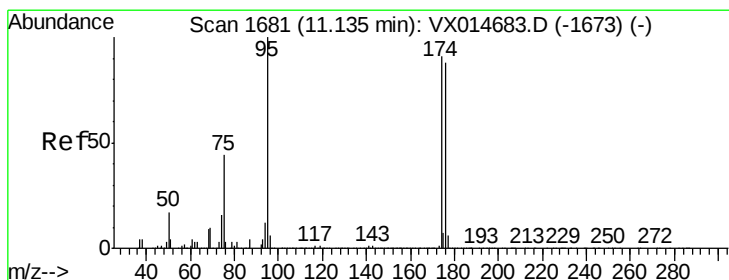
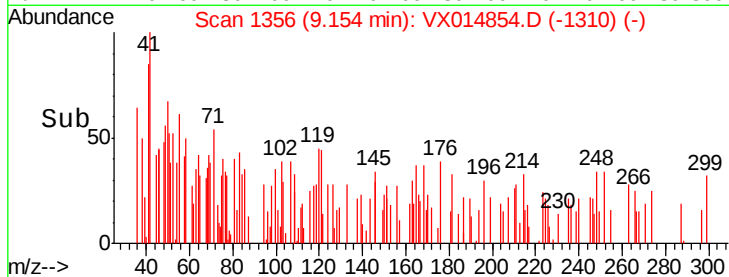
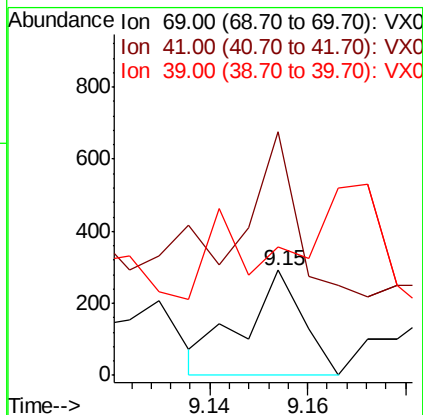
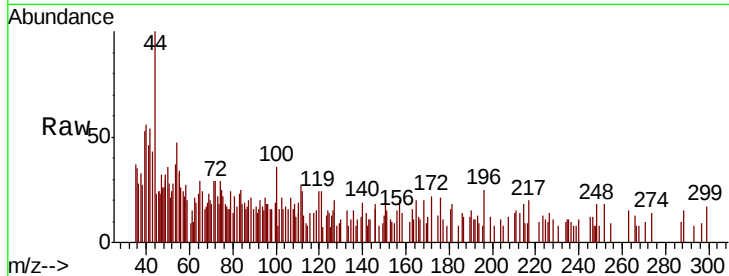




#56
Ethyl methacrylate
Concen: 1.811 ug/l
RT: 9.15 min Scan# 1356
Delta R.T. -0.02 min
Lab File: VX014854.D
Acq: 06 Feb 2020 17:43

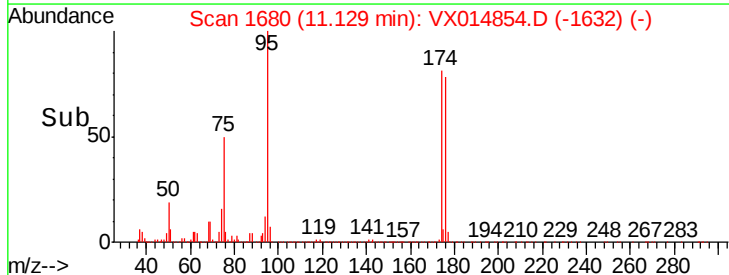
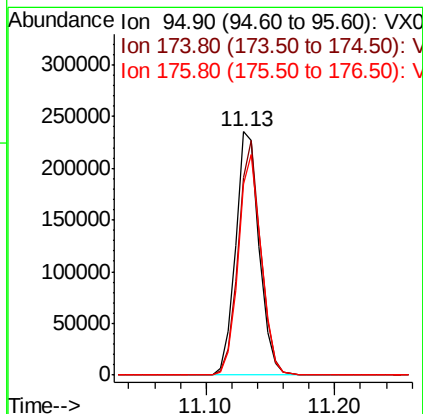
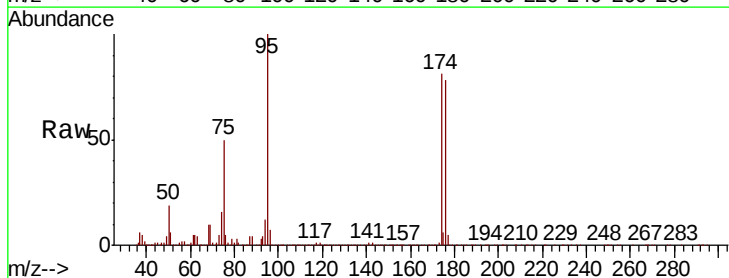
Instrument :
MSVOA_X
ClientSampleId :

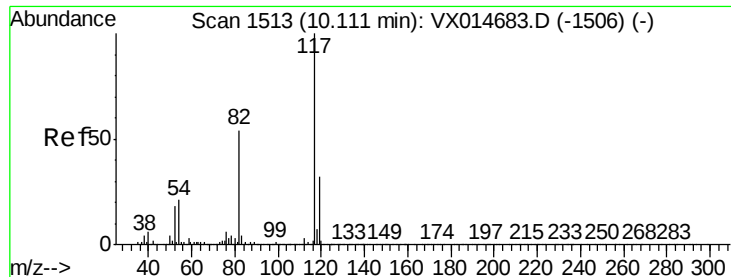
Tot Ion: 69 Resp: 243
Ion Ratio Lower Upper
69 100
41 154.7 54.9 82.3#
39 50.2 29.3 43.9#



#62
4-Bromofluorobenzene
Concen: 48.895 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014854.D
Acq: 06 Feb 2020 17:43

Tgt Ion: 95 Resp: 300672
Ion Ratio Lower Upper
95 100
174 91.6 0.0 176.0
176 88.1 0.0 172.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

Instrument :

MSVOA_X

ClientSampleId :

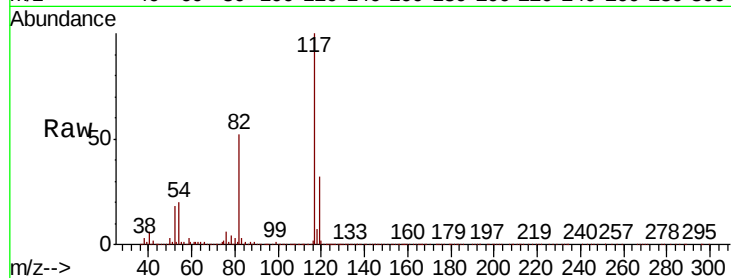
Tot Ion:117 Resp: 658961

Ion Ratio Lower Upper

117 100

82 51.9 43.2 64.8

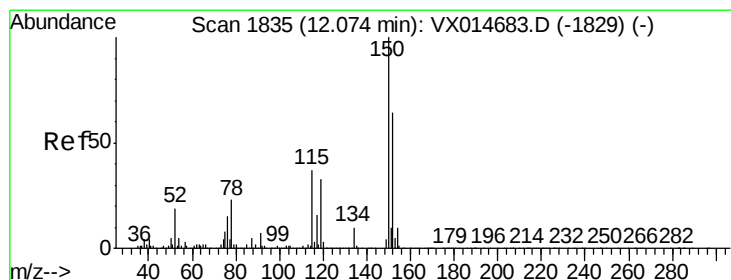
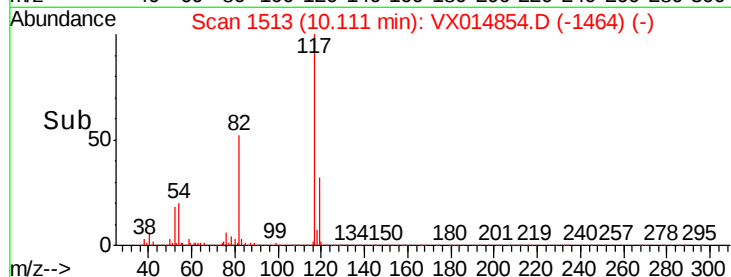
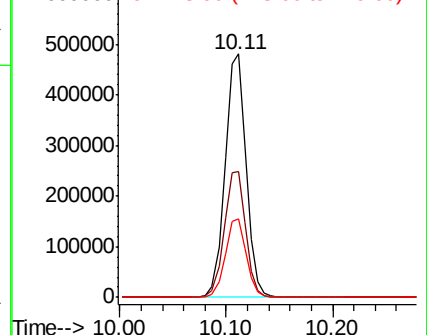
119 32.1 25.8 38.6



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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

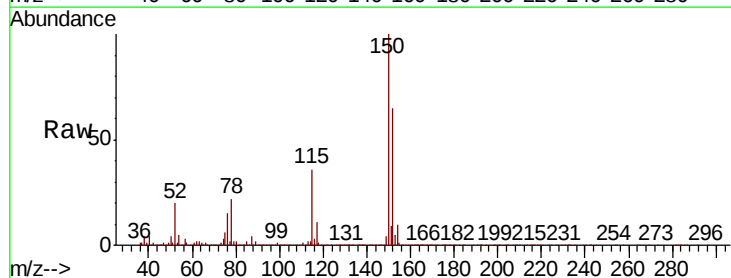
Tgt Ion:152 Resp: 317790

Ion Ratio Lower Upper

152 100

115 55.2 39.4 118.1

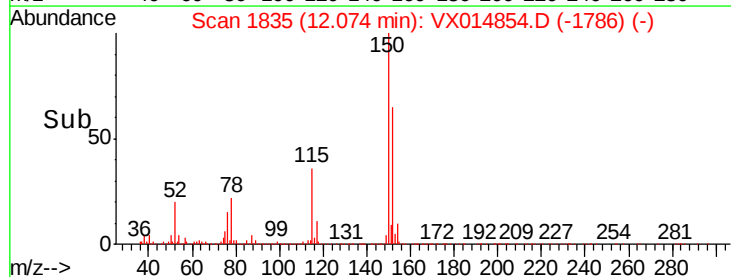
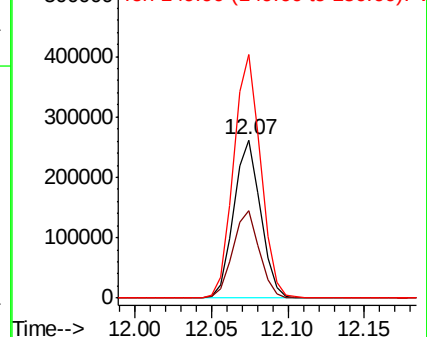
150 155.5 0.0 351.2

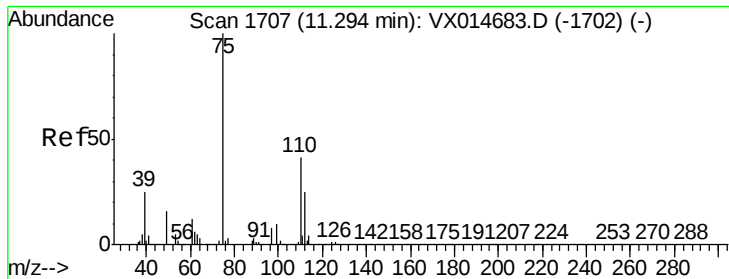


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.054 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

Instrument :

MSVOA_X

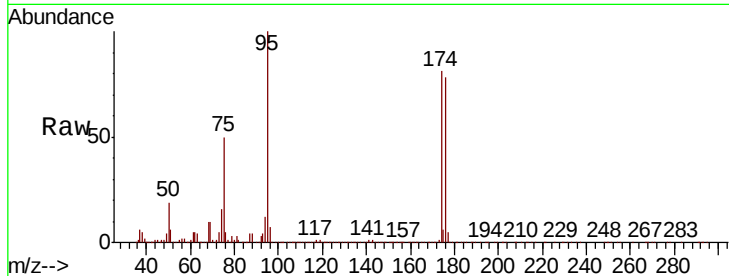
ClientSampled :

Tot Ion: 75 Resp: 148271

Ion Ratio Lower Upper

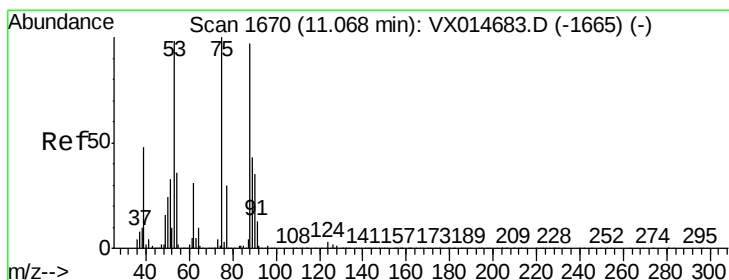
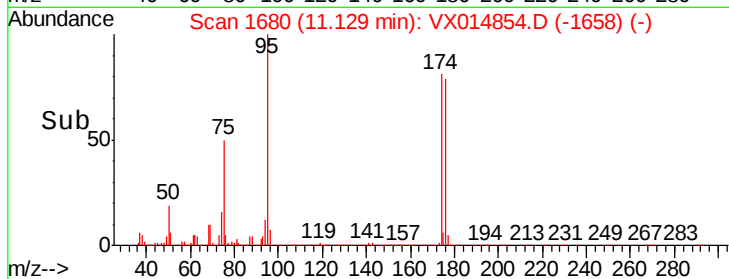
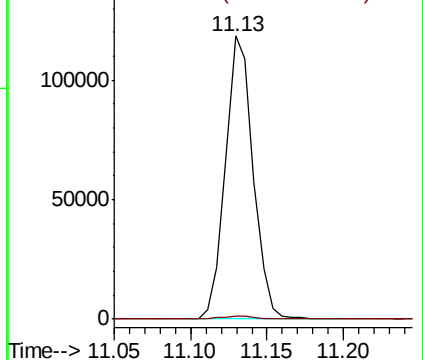
75 100

77 1.3 18.7 56.1#



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: 57.070 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014854.D

Acq: 06 Feb 2020 17:43

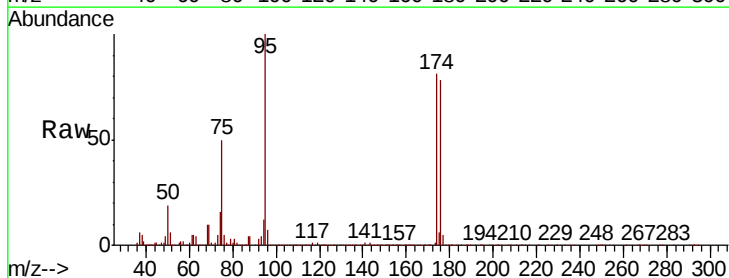
Tgt Ion: 75 Resp: 148271

Ion Ratio Lower Upper

75 100

53 0.6 78.8 118.2#

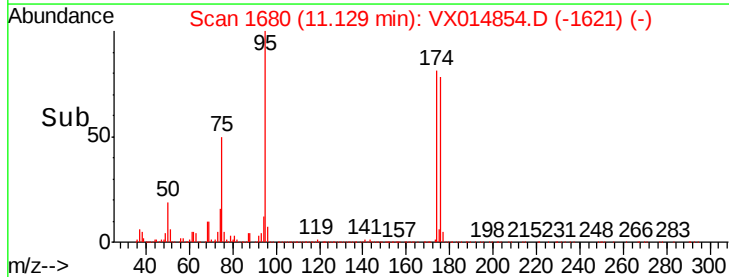
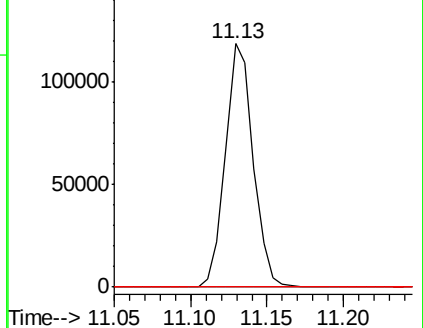
89 0.1 35.4 53.0#

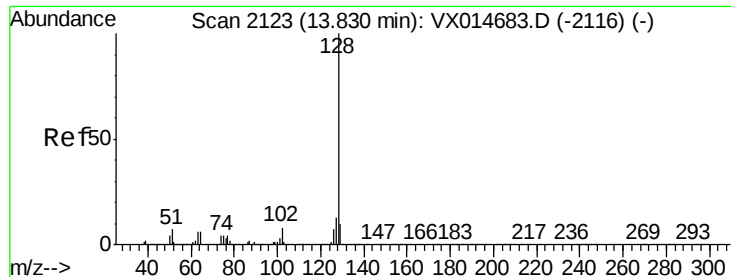


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

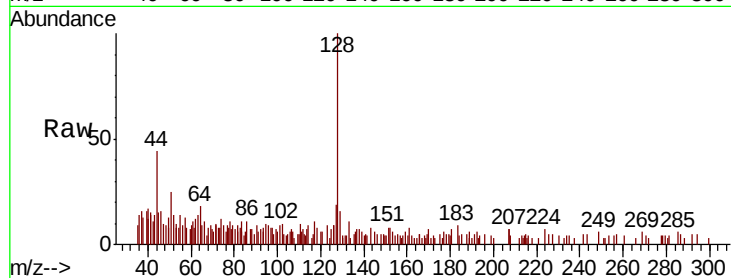




#95
Naphthalene
Concen: 1.053 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014854.D
Acq: 06 Feb 2020 17:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	31.4	10.3	15.5#
129	14.0	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

