

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009622.D
 Acq On : 31 Mar 2019 20:24
 Operator : SY/VA
 Sample : K1692-05
 Misc : 5.72G/5.0ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

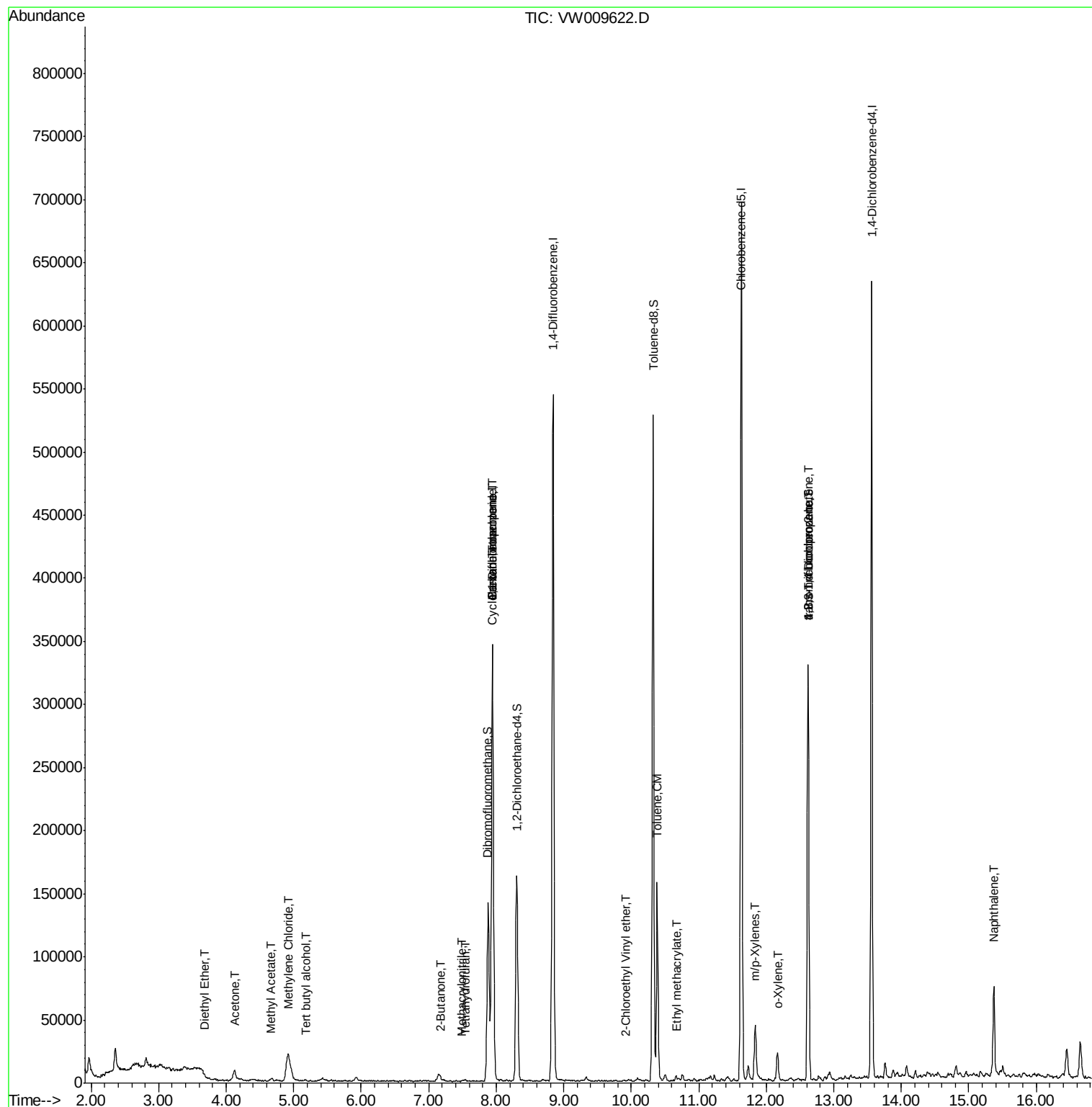
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	239392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	413842	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	366172	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	146688	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	122108	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	
35) Dibromofluoromethane	7.88	113	97264	37.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.84%	
50) Toluene-d8	10.32	98	316198	32.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.82%	
62) 4-Bromofluorobenzene	12.62	95	97704	27.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	41	Below Cal	#	41
8) Diethyl Ether	3.68	74	1679	1.359	ug/l	86
11) Tert butyl alcohol	5.18	59	446	2.810	ug/l #	70
16) Acetone	4.12	43	14000	22.746	ug/l	97
18) Methyl Acetate	4.67	43	4223	2.838	ug/l	94
20) Methylene Chloride	4.92	84	20616	5.051	ug/l #	85
25) 2-Butanone	7.18	43	1224	1.439	ug/l #	69
29) Tetrahydrofuran	7.54	42	652	1.235	ug/l #	75
31) Cyclohexane	7.93	56	7120	1.581	ug/l #	63
36) 1,1-Dichloropropene	7.95	75	22347	5.221	ug/l #	52
38) Carbon Tetrachloride	7.95	117	25246	5.756	ug/l #	16
41) Methacrylonitrile	7.49	41	198	4.059	ug/l #	41
52) Toluene	10.38	92	61159	8.423	ug/l	100
56) Ethyl methacrylate	10.66	69	386	3.915	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.93	63	38	17.041	ug/l #	46
68) m/p-Xylenes	11.84	106	12097	2.345	ug/l	92
69) o-Xylene	12.17	106	4996	1.040	ug/l	84
76) 1,2,3-Trichloropropane	12.62	75	54771	39.705	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	54771	92.334	ug/l #	7
95) Naphthalene	15.37	128	59331	12.597	ug/l	99

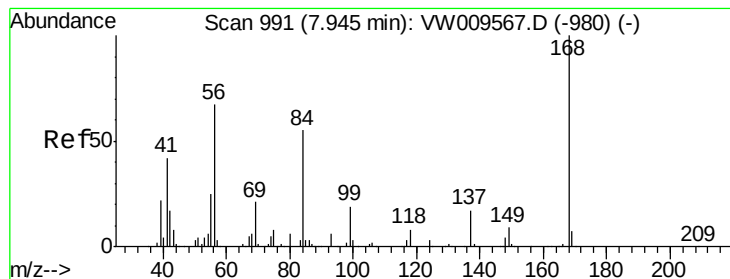
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

Instrument :

MSVOA_W

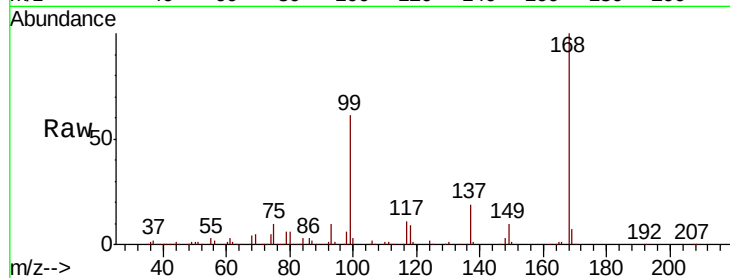
ClientSampled :

Tot Ion:168 Resp: 239392

Ion Ratio Lower Upper

168 100

99 61.4 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

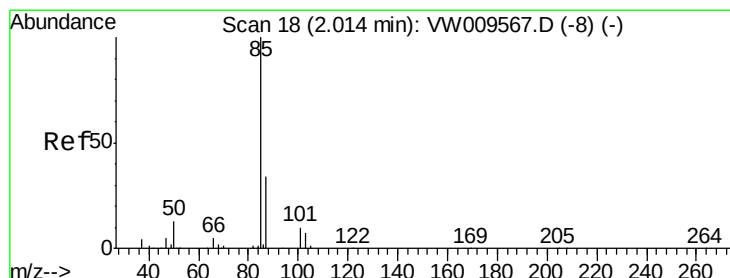
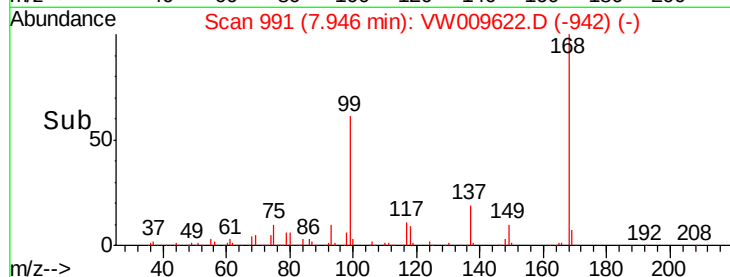
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009622.D

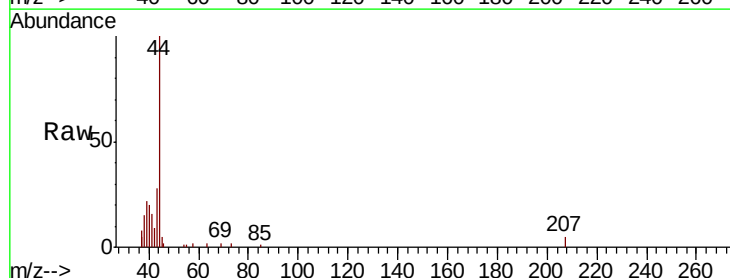
Acq: 31 Mar 2019 20:24

Tgt Ion: 85 Resp: 41

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

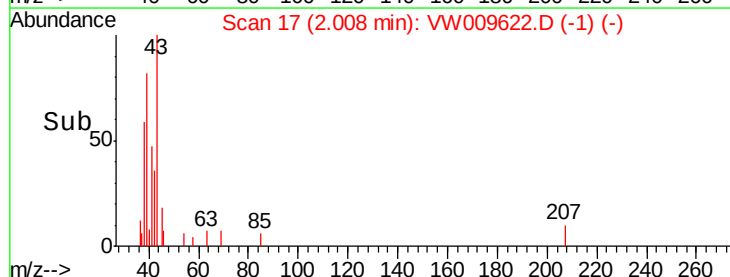
150 Ion 86.90 (86.60 to 87.60): VW

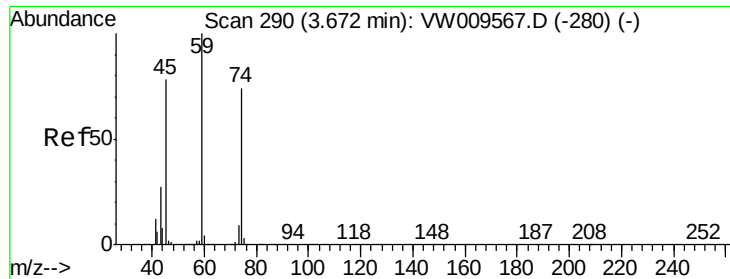
100

50

0

Time-->





#8

Diethyl Ether

Concen: 1.359 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.01 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

Instrument :

MSVOA_W

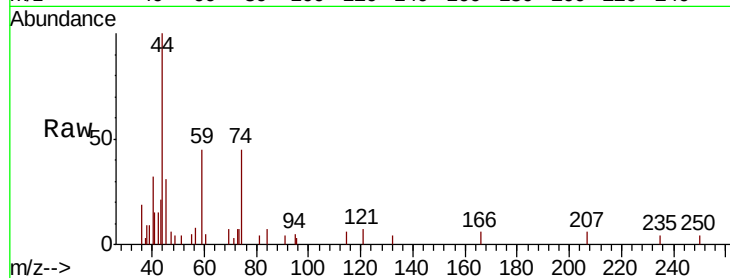
ClientSampled :

Tot Ion: 74 Resp: 1679

Ion Ratio Lower Upper

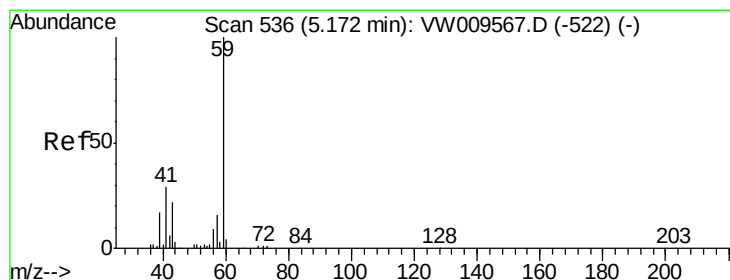
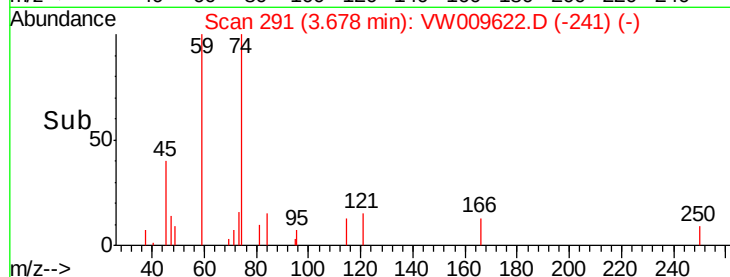
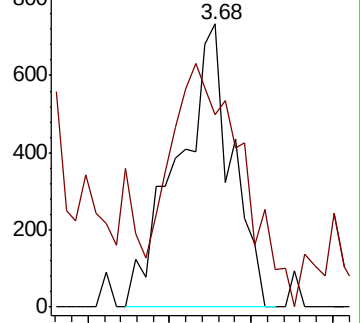
74 100

45 115.7 50.6 151.9



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#11

Tert butyl alcohol

Concen: 2.810 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW009622.D

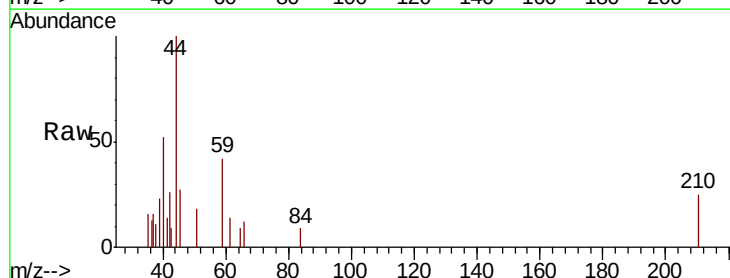
Acq: 31 Mar 2019 20:24

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

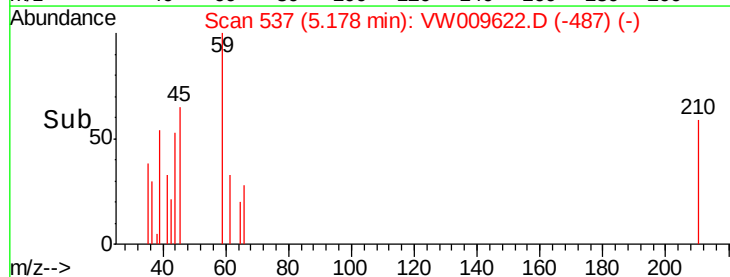
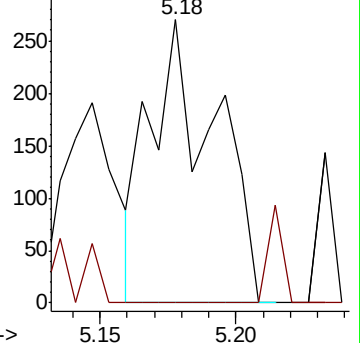
59 100

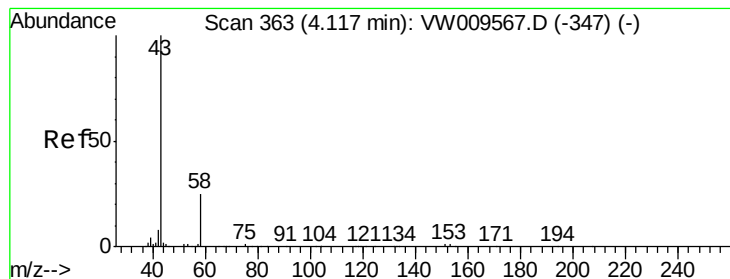
57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 22.746 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

Instrument :

MSVOA_W

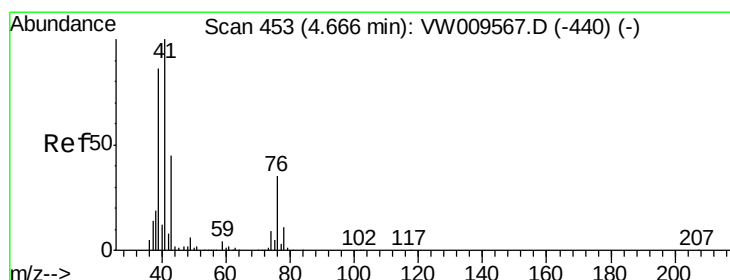
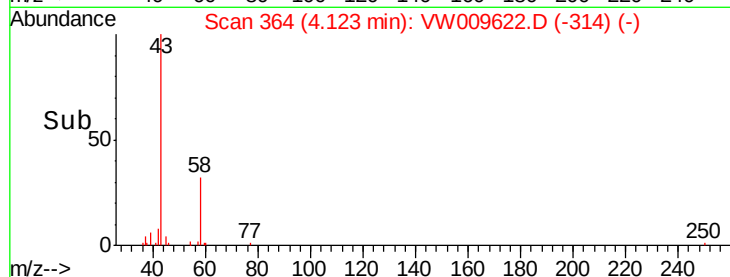
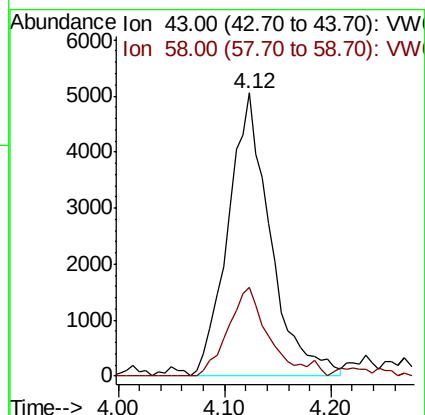
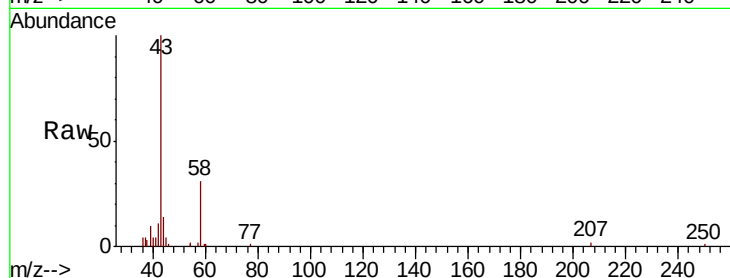
ClientSampleId :

Tot Ion: 43 Resp: 14000

Ion Ratio Lower Upper

43 100

58 31.2 23.6 35.4



#18

Methyl Acetate

Concen: 2.838 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW009622.D

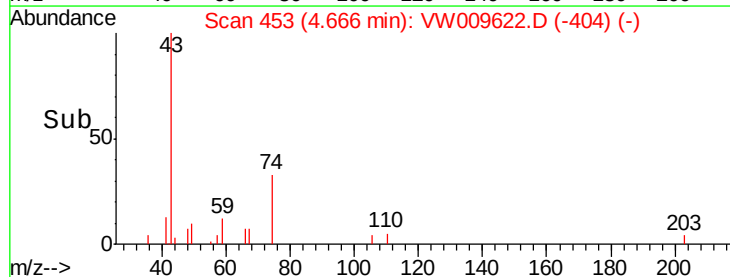
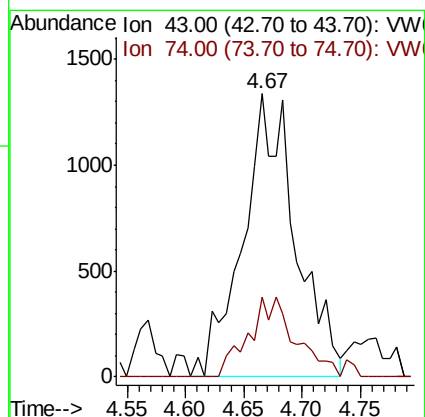
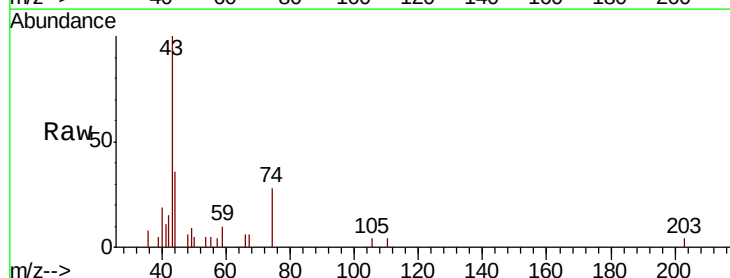
Acq: 31 Mar 2019 20:24

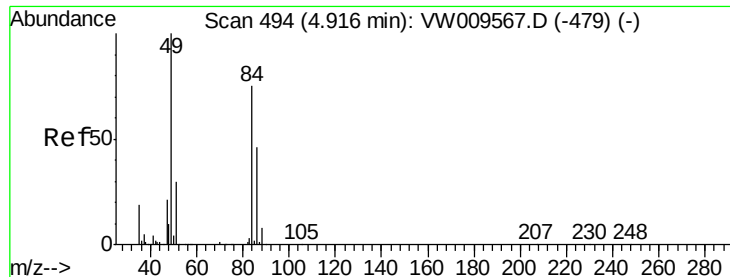
Tgt Ion: 43 Resp: 4223

Ion Ratio Lower Upper

43 100

74 25.1 17.7 26.5

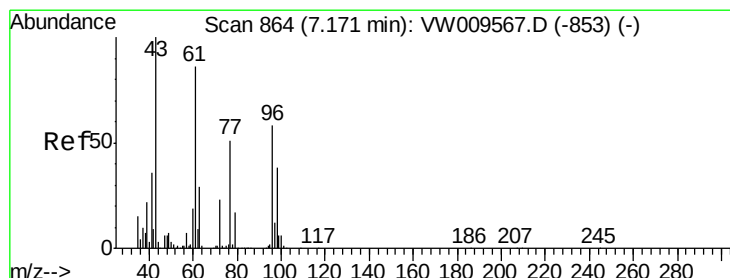
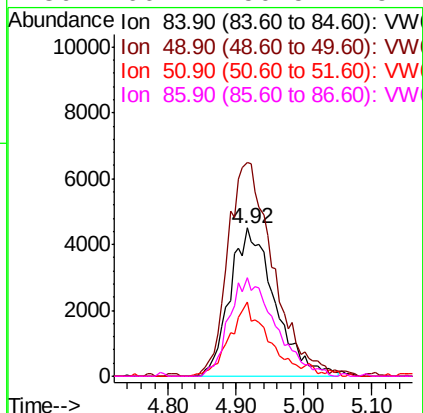
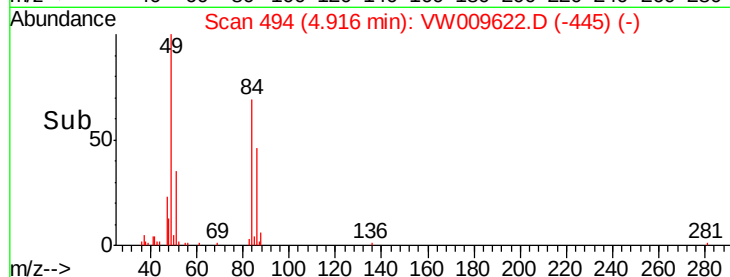
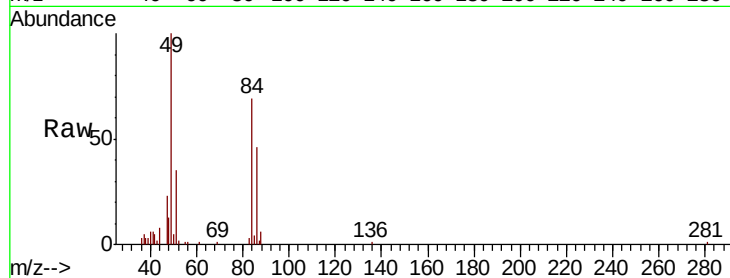




#20
Methylene Chloride
Concen: 5.051 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

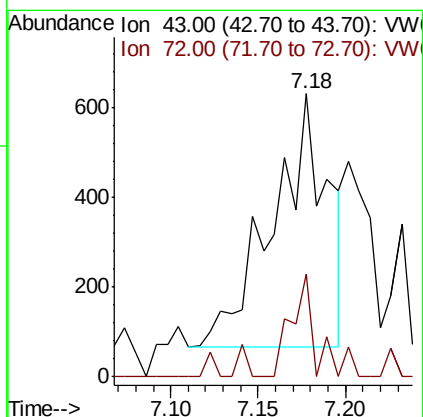
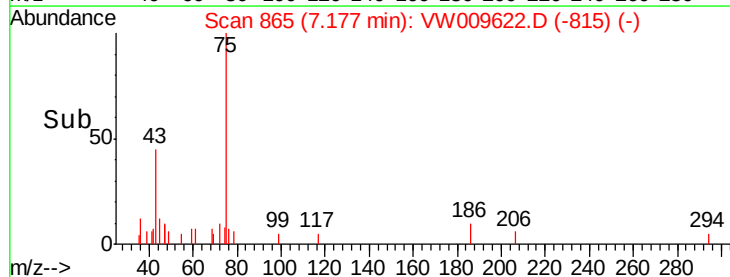
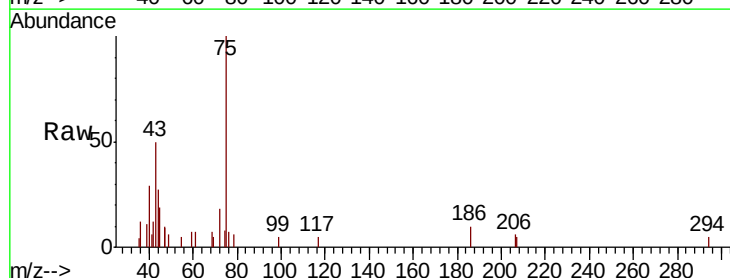
Instrument :
MSVOA_W
ClientSampled :

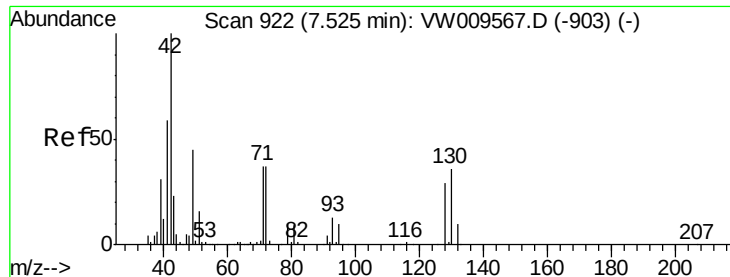
Tot Ion: 84 Resp: 20616
Ion Ratio Lower Upper
84 100
49 144.3 99.1 148.7
51 50.4 28.7 43.1#
86 66.7 50.5 75.7



#25
2-Butanone
Concen: 1.439 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

Tgt Ion: 43 Resp: 1224
Ion Ratio Lower Upper
43 100
72 40.5 20.0 30.0#

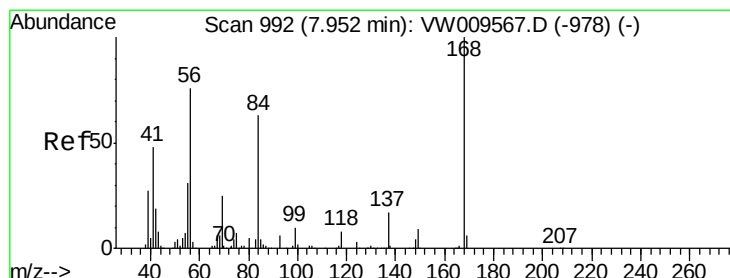
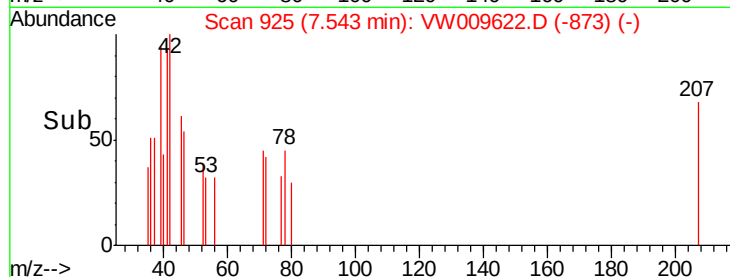
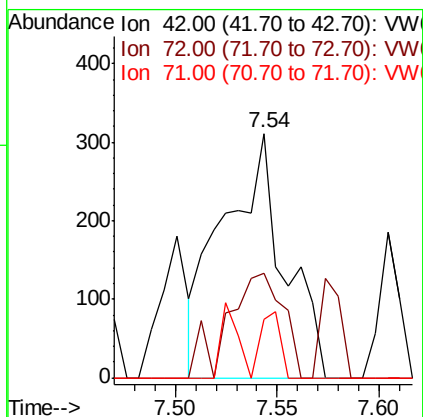
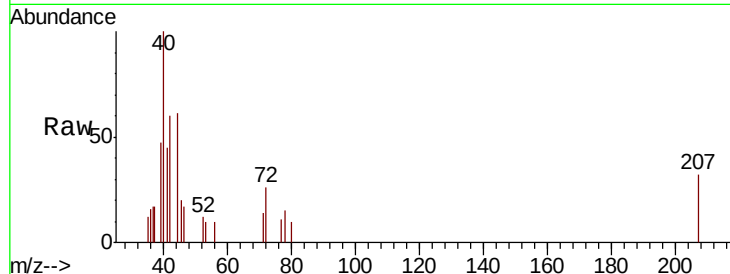




#29
Tetrahydrofuran
Concen: 1.235 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

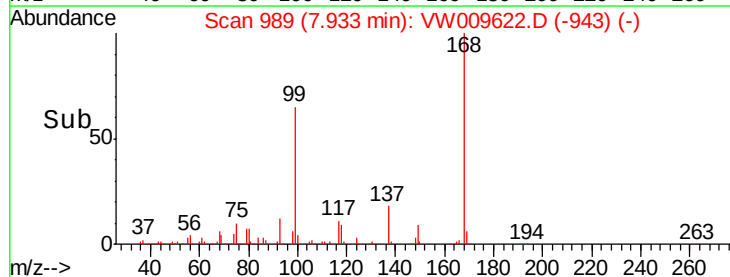
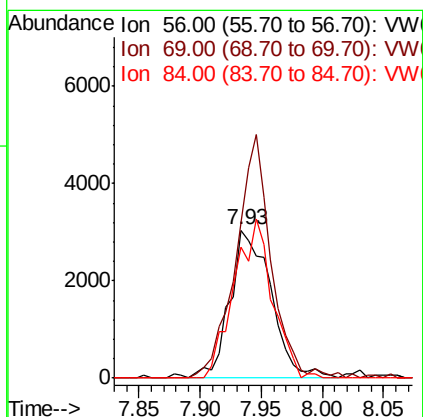
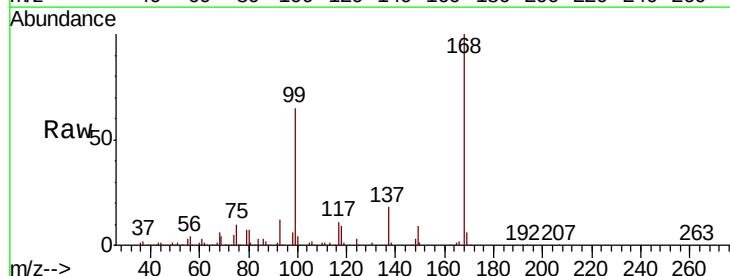
Instrument :
MSVOA_W
ClientSampleId :

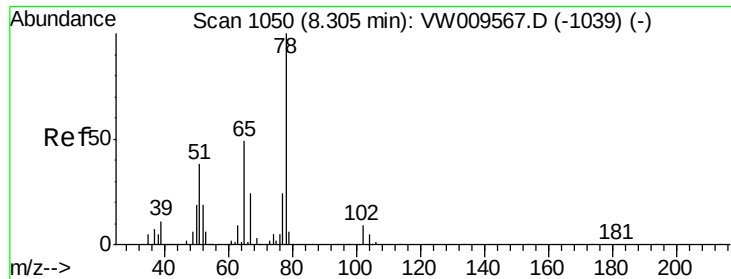
Tot Ion: 42 Resp: 652
Ion Ratio Lower Upper
42 100
72 38.5 32.4 48.6
71 8.9 30.1 45.1#



#31
Cyclohexane
Concen: 1.581 ug/l
RT: 7.93 min Scan# 989
Delta R.T. -0.02 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

Tgt Ion: 56 Resp: 7120
Ion Ratio Lower Upper
56 100
69 105.2 26.1 39.1#
84 88.1 68.6 103.0

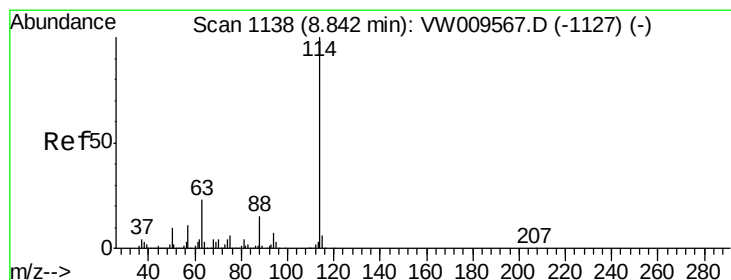
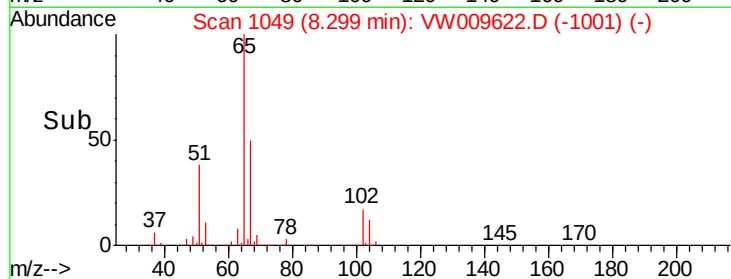
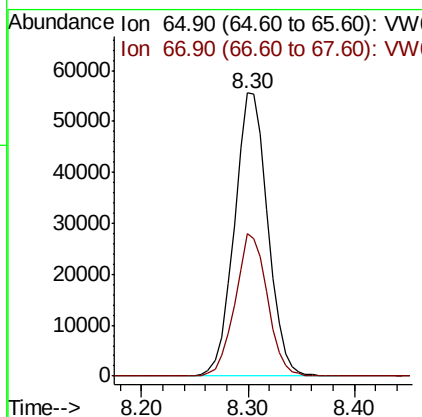
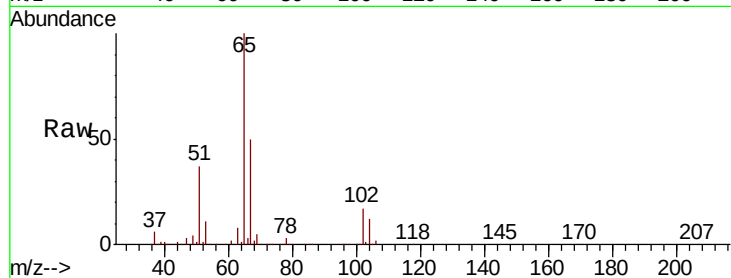




#33
 1,2-Dichloroethane-d4
 Concen: 44.605 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW009622.D
 Acq: 31 Mar 2019 20:24

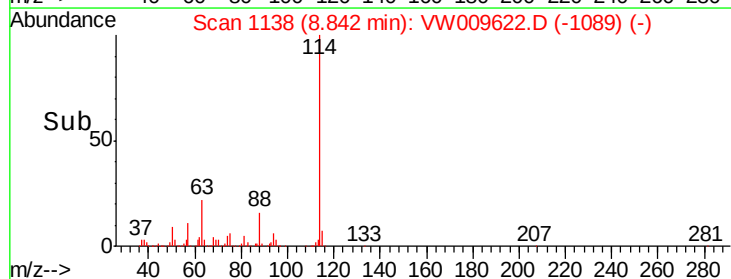
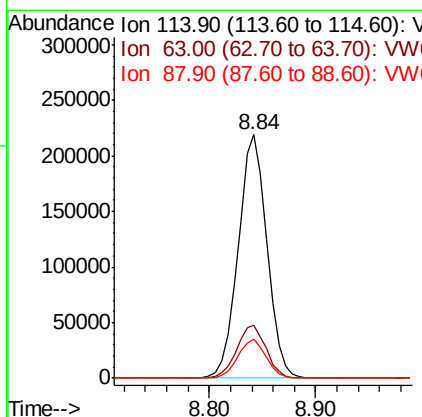
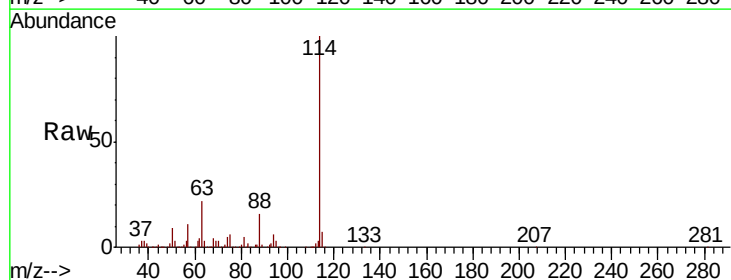
Instrument :
 MSVOA_W
 ClientSampleId :

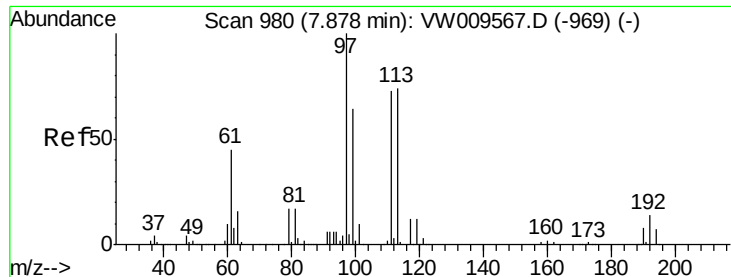
Tot Ion: 65 Resp: 122108
 Ion Ratio Lower Upper
 65 100
 67 48.7 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009622.D
 Acq: 31 Mar 2019 20:24

Tgt Ion: 114 Resp: 413842
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.2
 88 15.9 0.0 30.8

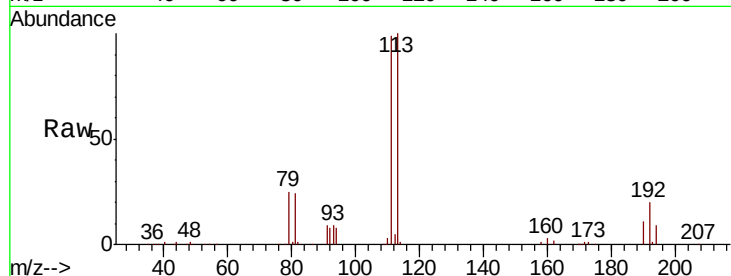




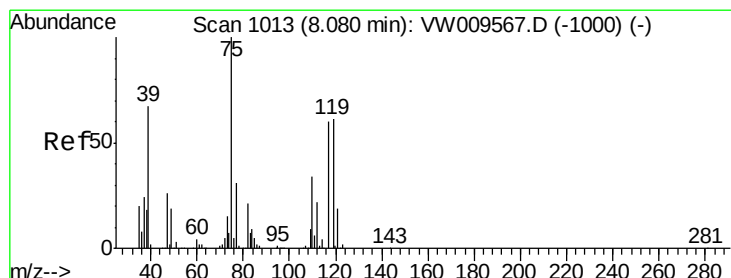
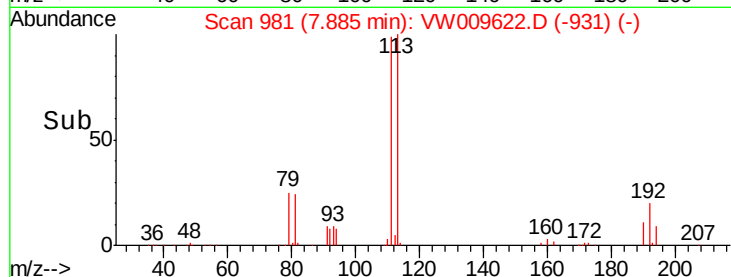
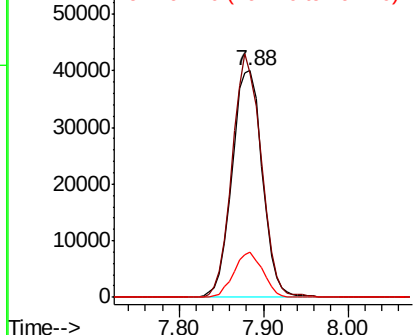
#35
 Dibromofluoromethane
 Concen: 37.420 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW009622.D
 Acq: 31 Mar 2019 20:24

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 97264
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.6 124.0
 192 19.2 16.4 24.6

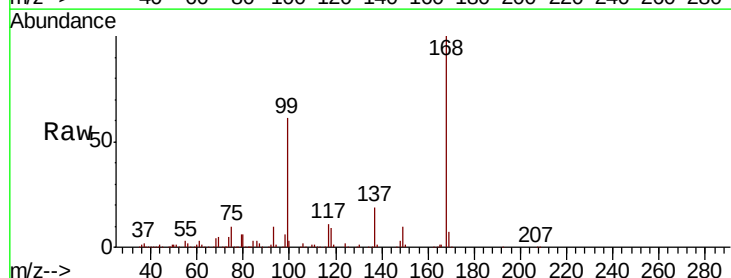


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

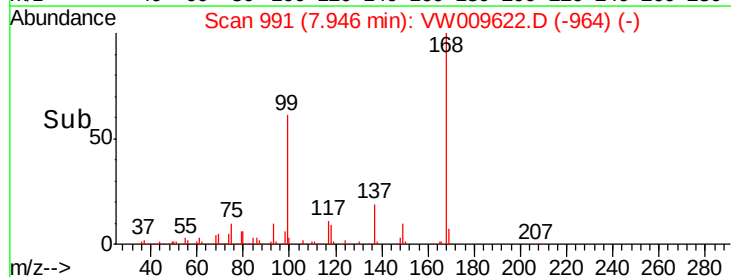
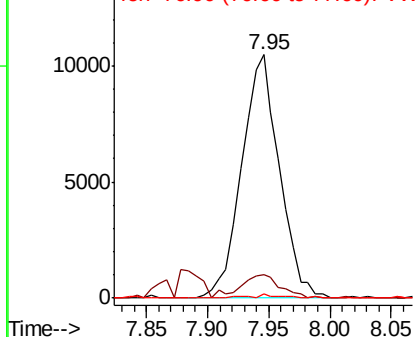


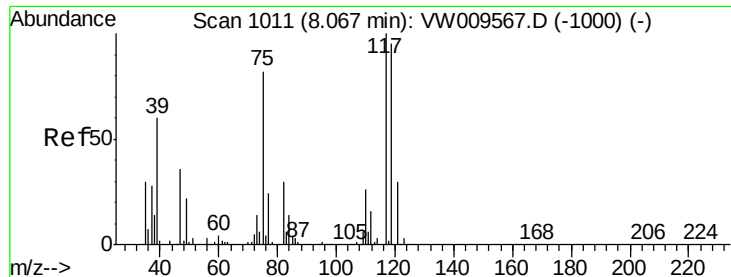
#36
 1,1-Dichloropropene
 Concen: 5.221 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009622.D
 Acq: 31 Mar 2019 20:24

Tgt Ion: 75 Resp: 22347
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.8 50.4#
 77 1.1 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

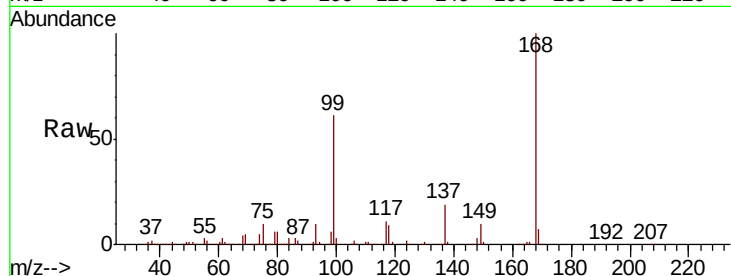




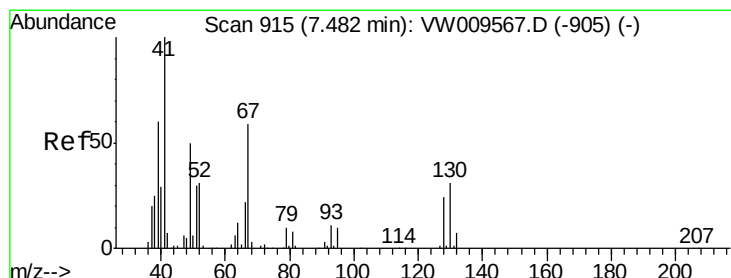
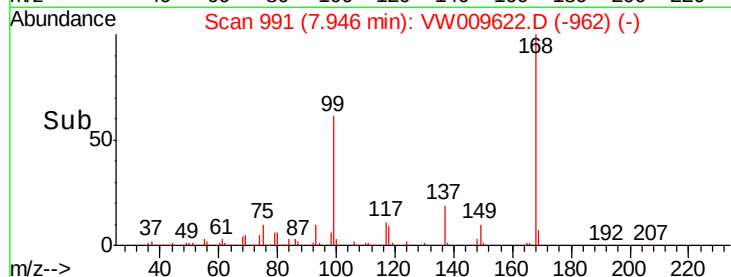
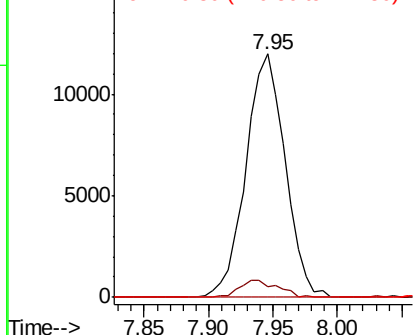
#38
Carbon Tetrachloride
Concen: 5.756 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 25246
Ion Ratio Lower Upper
117 100
119 4.6 75.4 113.0#
121 0.0 24.9 37.3#

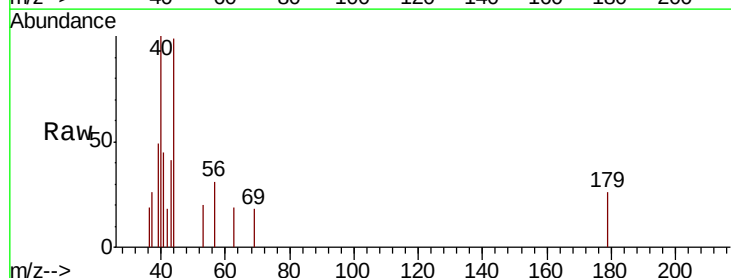


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

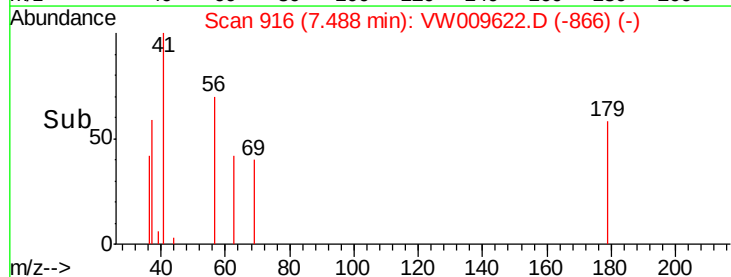
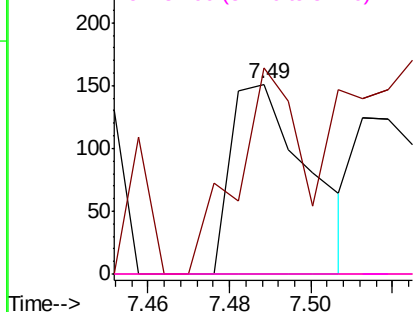


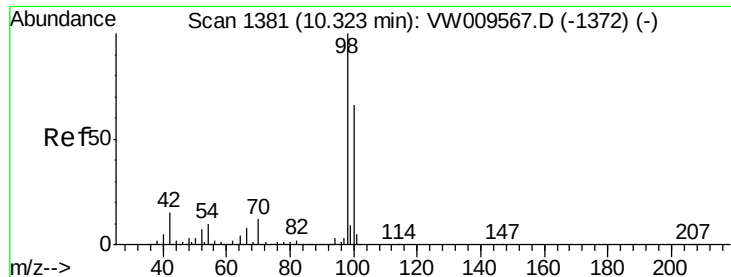
#41
Methacrylonitrile
Concen: 4.059 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

Tgt Ion: 41 Resp: 198
Ion Ratio Lower Upper
41 100
39 89.9 52.5 78.7#
67 0.0 56.6 84.8#
52 0.0 27.2 40.8#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

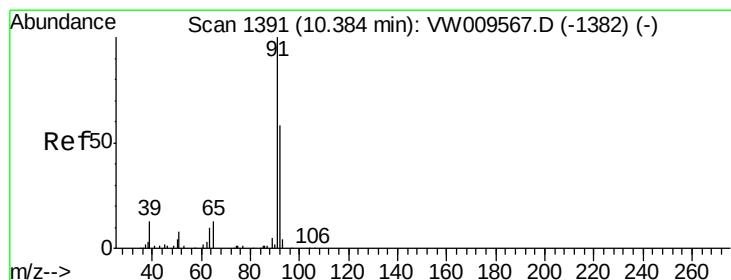
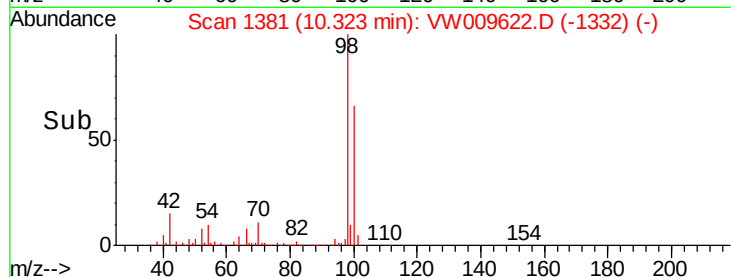
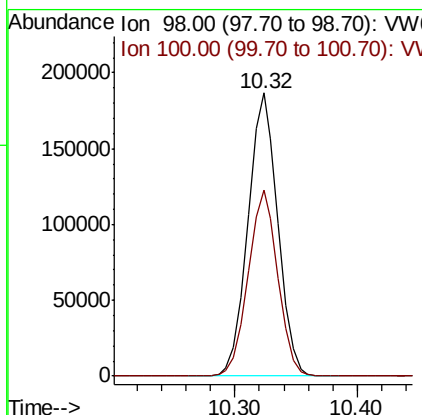
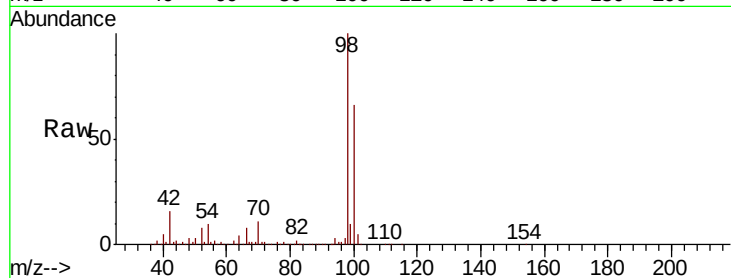




#50
Toluene-d8
Concen: 32.913 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

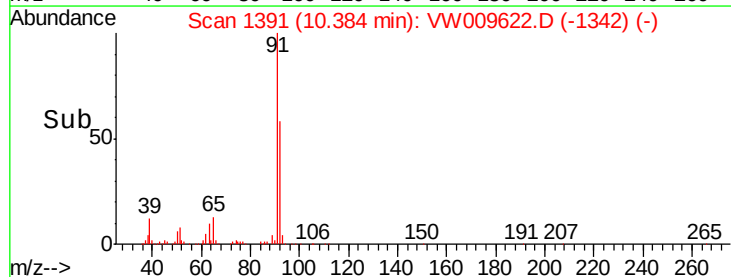
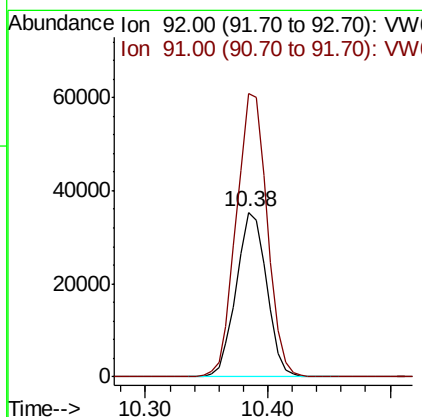
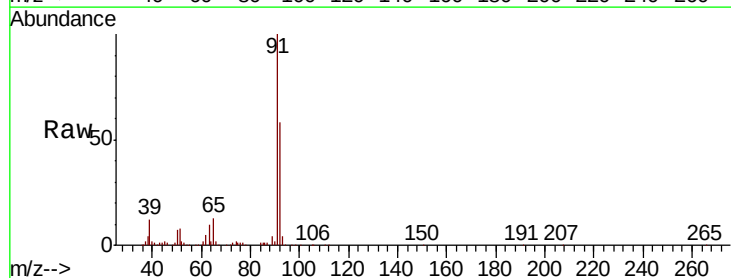
Instrument :
MSVOA_W
ClientSampleId :

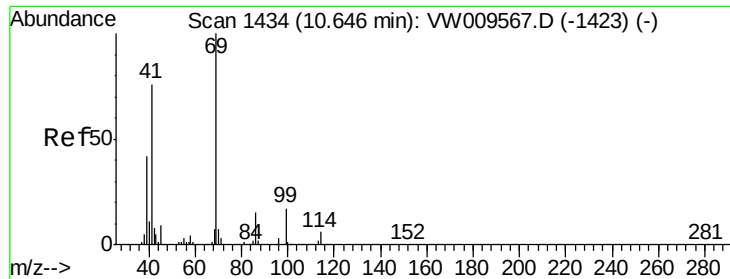
Tot Ion: 98 Resp: 316198
Ion Ratio Lower Upper
98 100
100 65.4 52.6 79.0



#52
Toluene
Concen: 8.423 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

Tgt Ion: 92 Resp: 61159
Ion Ratio Lower Upper
92 100
91 174.8 140.1 210.1





#56

Ethyl methacrylate

Concen: 3.915 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

Instrument :

MSVOA_W

ClientSampled :

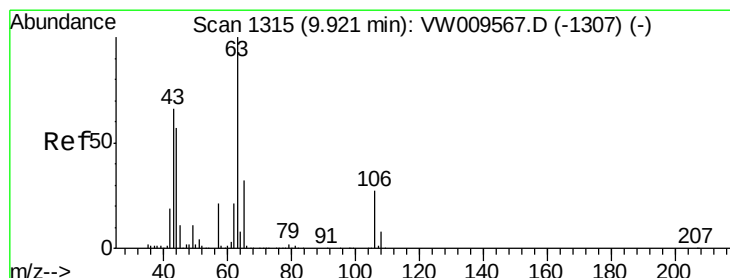
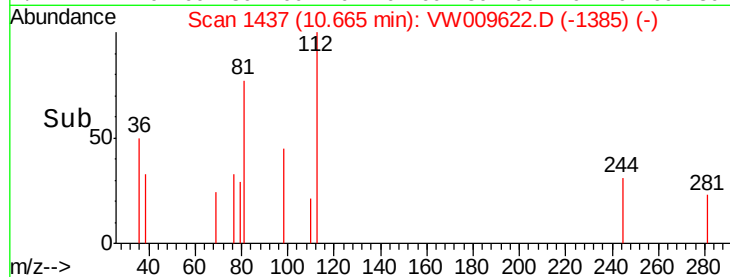
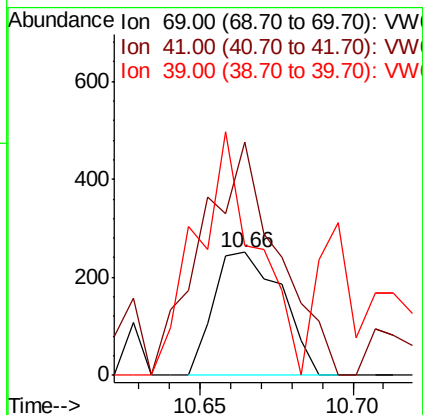
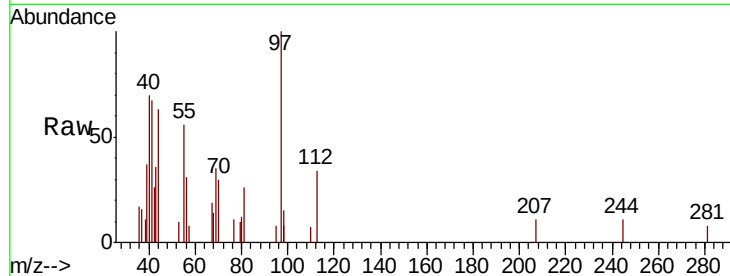
Tot Ion: 69 Resp: 386

Ion Ratio Lower Upper

69 100

41 214.5 59.3 88.9#

39 175.1 36.2 54.2#



#58

2-Chloroethyl Vinyl ether

Concen: 17.041 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW009622.D

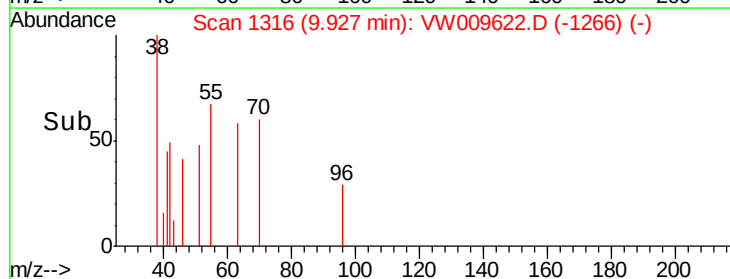
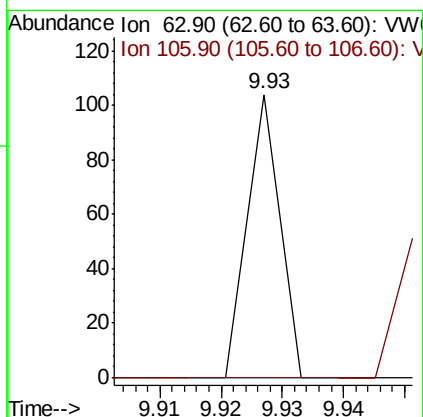
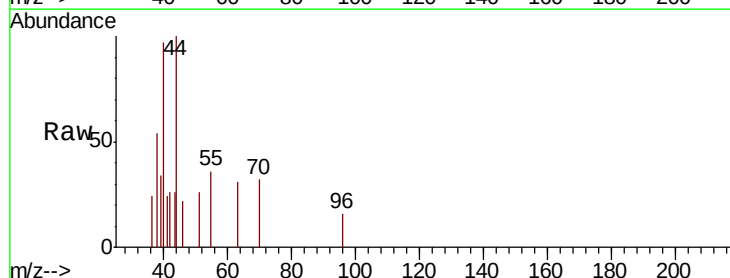
Acq: 31 Mar 2019 20:24

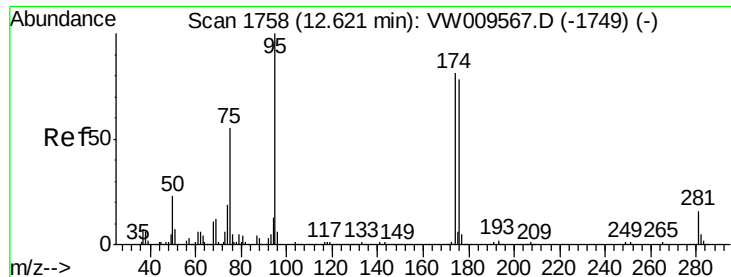
Tgt Ion: 63 Resp: 38

Ion Ratio Lower Upper

63 100

106 0.0 22.9 34.3#

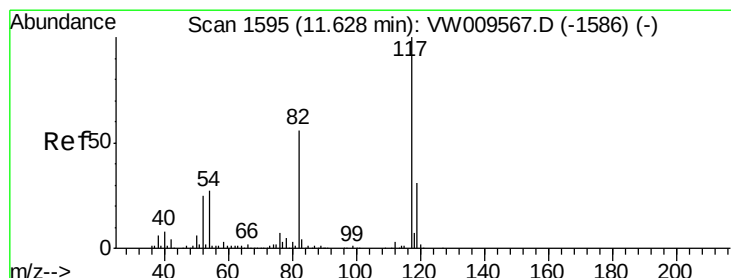
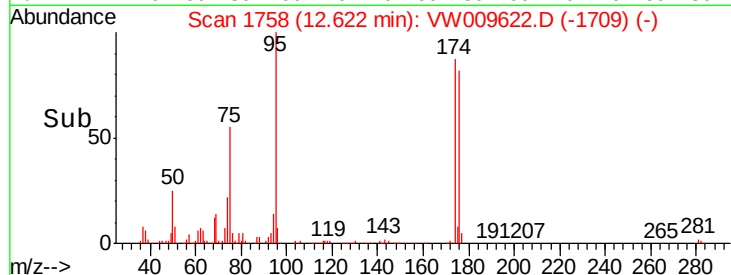
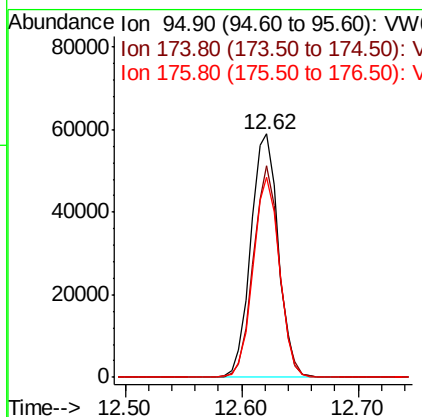
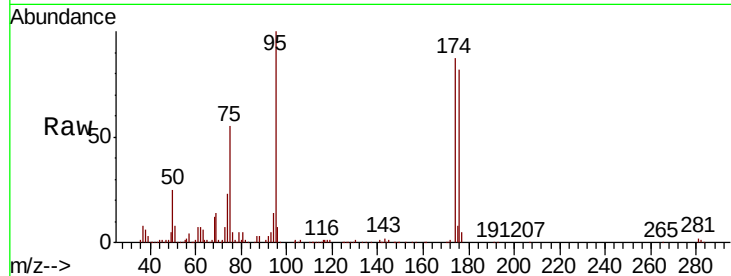




#62
4-Bromofluorobenzene
Concen: 27.261 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

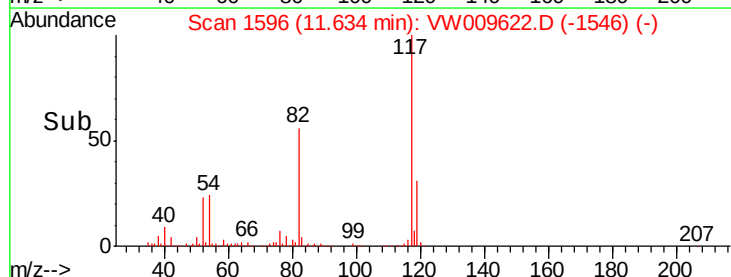
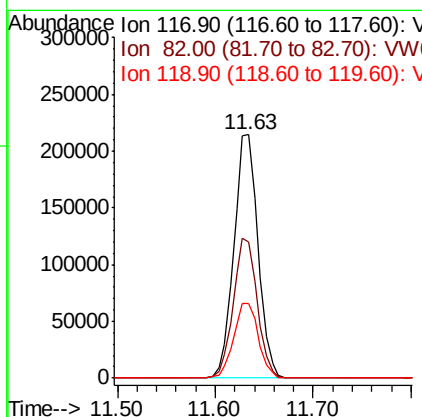
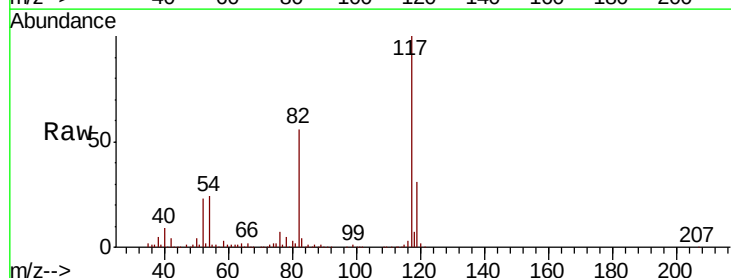
Instrument :
MSVOA_W
ClientSampleId :

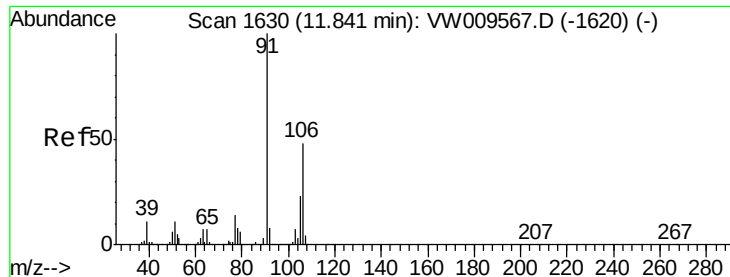
Tot Ion: 95 Resp: 97704
Ion Ratio Lower Upper
95 100
174 81.8 0.0 168.4
176 78.9 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW009622.D
Acq: 31 Mar 2019 20:24

Tgt Ion: 117 Resp: 366172
Ion Ratio Lower Upper
117 100
82 56.1 43.6 65.4
119 30.9 26.0 39.0





#68

m/p-Xylenes

Concen: 2.345 ug/l

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

Instrument :

MSVOA_W

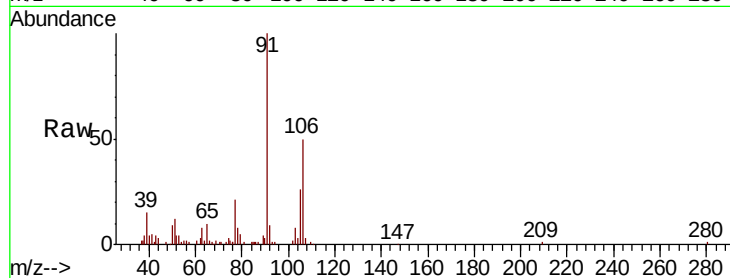
ClientSampled :

Tot Ion:106 Resp: 12097

Ion Ratio Lower Upper

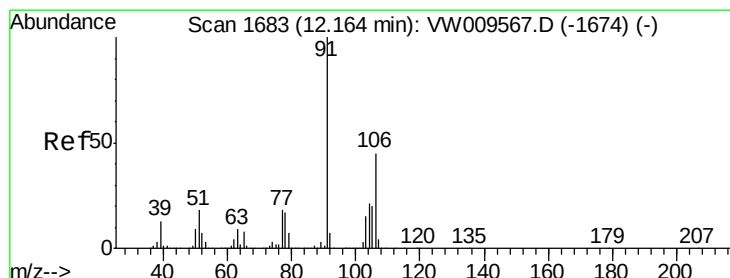
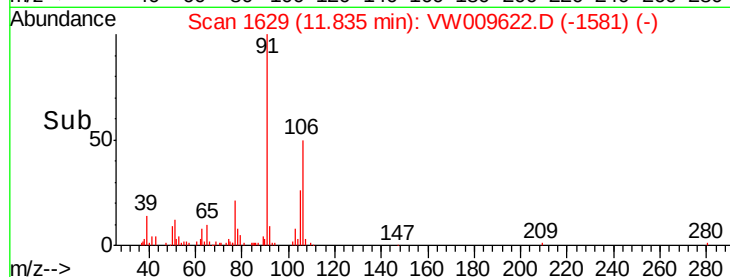
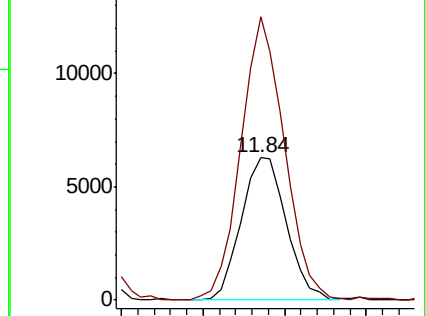
106 100

91 191.7 163.1 244.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 1.040 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW009622.D

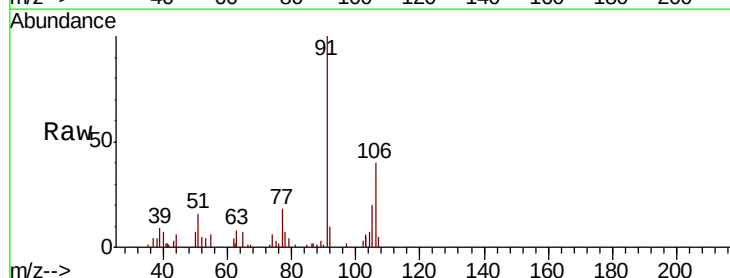
Acq: 31 Mar 2019 20:24

Tgt Ion:106 Resp: 4996

Ion Ratio Lower Upper

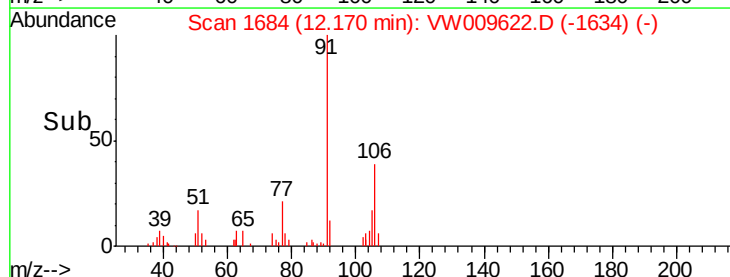
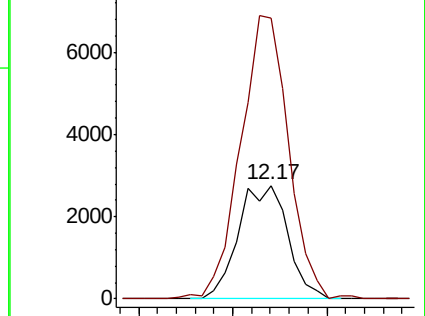
106 100

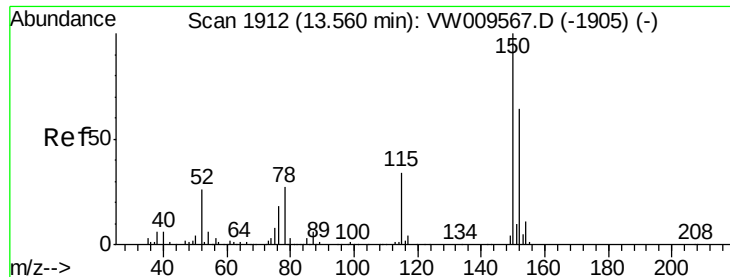
91 243.1 108.6 325.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

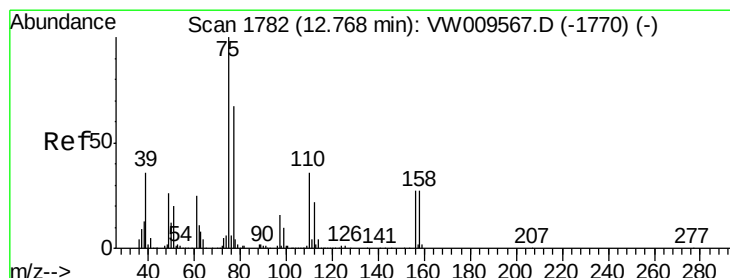
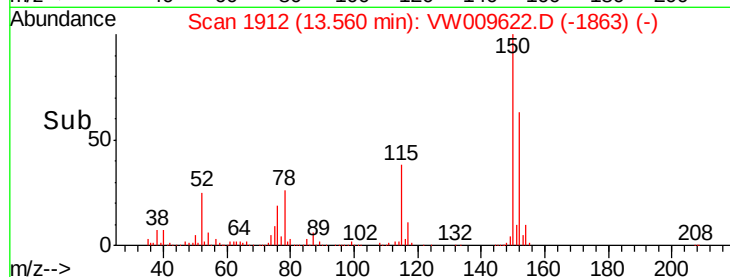
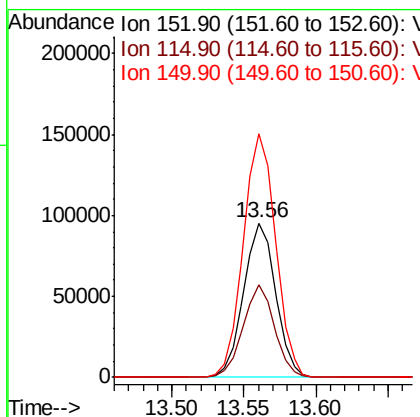
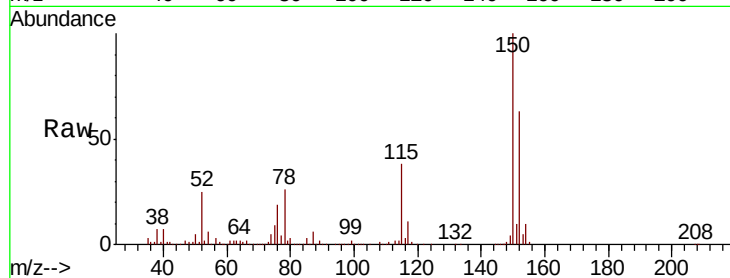




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.00 min
 Lab File: VW009622.D
 Acq: 31 Mar 2019 20:24

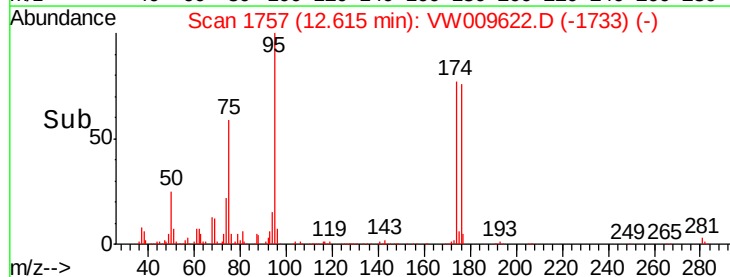
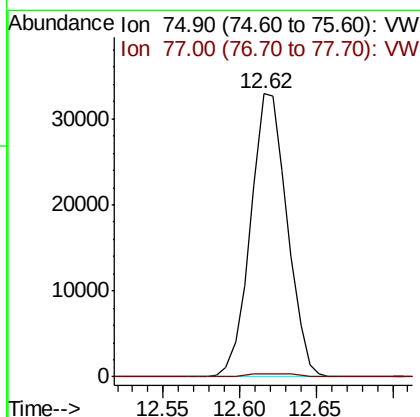
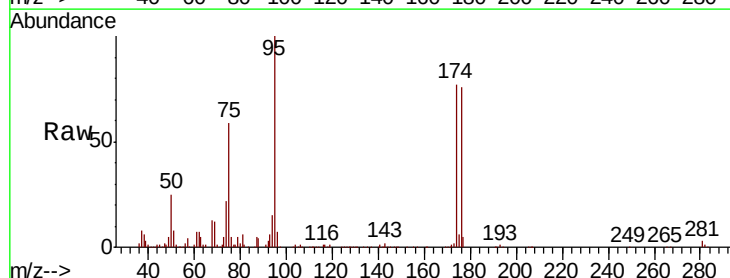
Instrument :
 MSVOA_W
 ClientSampleId :

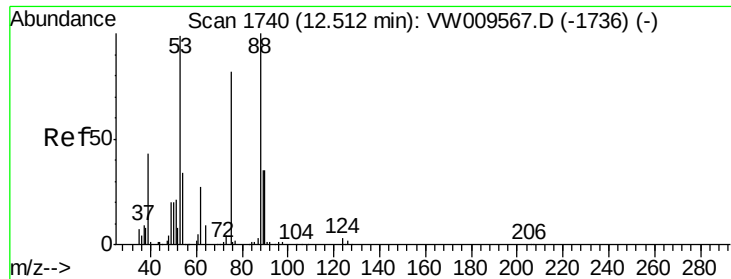
Tot Ion:152 Resp: 146688
 Ion Ratio Lower Upper
 152 100
 115 58.8 29.6 88.8
 150 159.1 0.0 349.2



#76
 1,2,3-Trichloropropane
 Concen: 39.705 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW009622.D
 Acq: 31 Mar 2019 20:24

Tgt Ion: 75 Resp: 54771
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 92.334 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

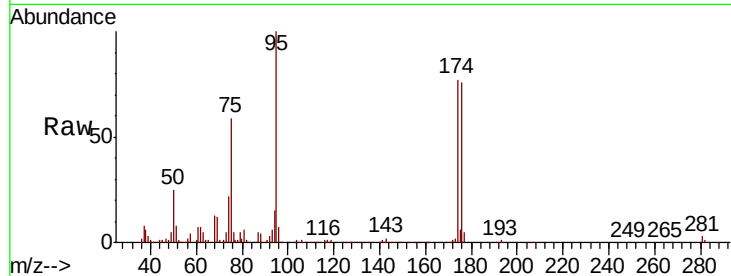
Tot Ion: 75 Resp: 54771

Ion Ratio Lower Upper

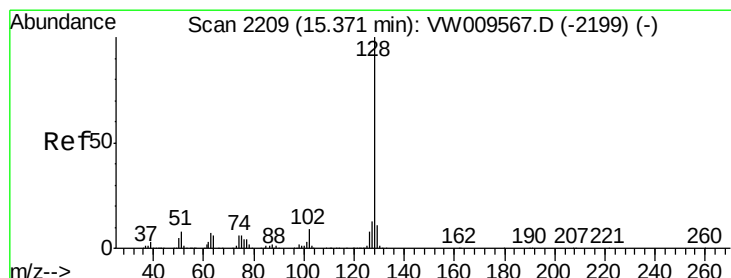
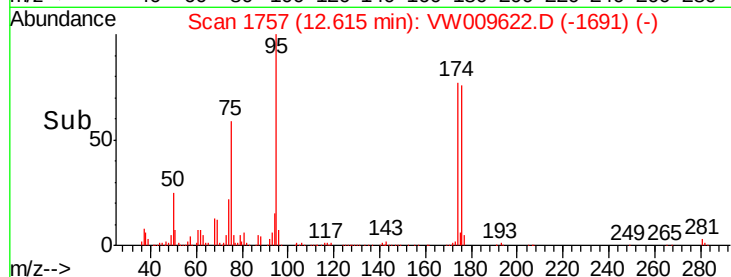
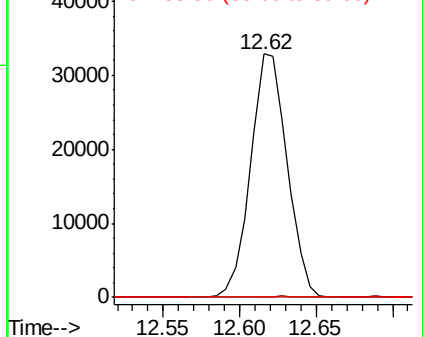
75 100

53 0.3 86.7 130.1#

89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 12.597 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009622.D

Acq: 31 Mar 2019 20:24

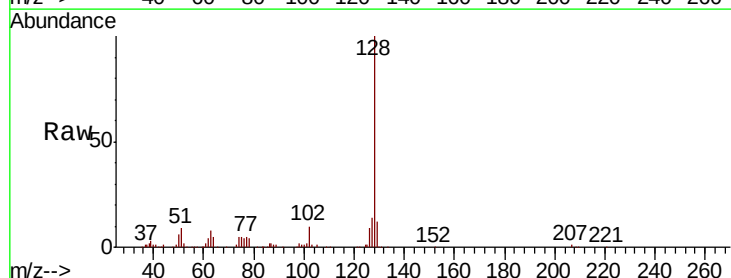
Tgt Ion: 128 Resp: 59331

Ion Ratio Lower Upper

128 100

127 14.2 10.8 16.2

129 11.2 8.7 13.1



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

