

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009614.D
 Acq On : 31 Mar 2019 16:48
 Operator : SY/VA
 Sample : K2132-02
 Misc : 6.63G/5.0ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:55:44 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	261150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	432872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	400029	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	180031	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	109553	36.68	ug/l	0.00
Spiked Amount			Recovery	=	73.36%	
35) Dibromofluoromethane	7.88	113	88214	32.45	ug/l	0.00
Spiked Amount			Recovery	=	64.90%	
50) Toluene-d8	10.32	98	301960	30.05	ug/l	0.00
Spiked Amount			Recovery	=	60.10%	
62) 4-Bromofluorobenzene	12.62	95	101219	27.00	ug/l	0.00
Spiked Amount			Recovery	=	54.00%	

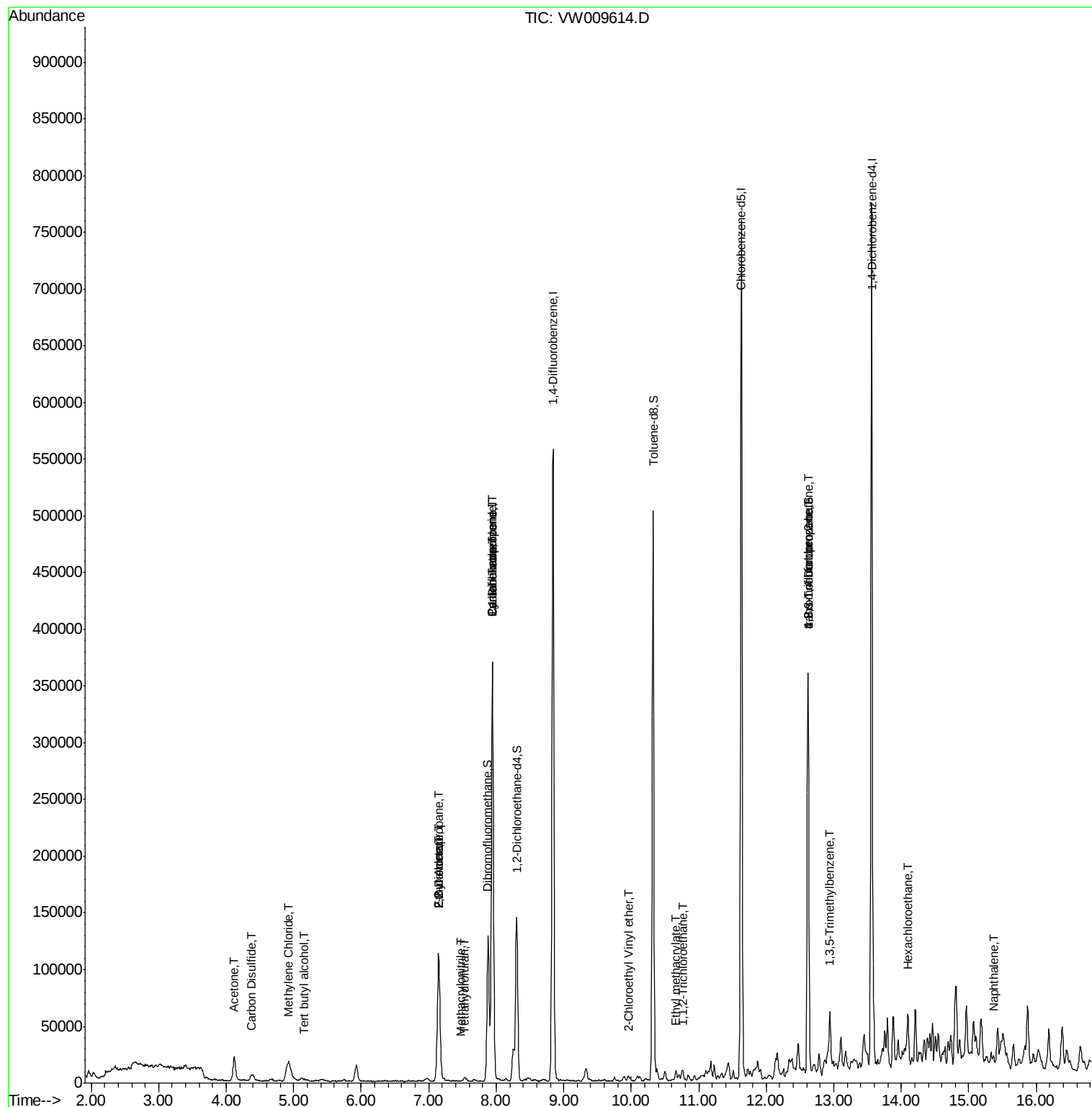
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.03	85	281	Below Cal	#	41
11) Tert butyl alcohol	5.16	59	472	2.726	ug/l #	70
16) Acetone	4.12	43	36825	54.845	ug/l	95
17) Carbon Disulfide	4.37	76	11560	1.612	ug/l #	91
20) Methylene Chloride	4.92	84	16595	2.625	ug/l	96
25) 2-Butanone	7.15	43	7615	8.207	ug/l #	85
26) 2,2-Dichloropropane	7.15	77	7465	2.492	ug/l #	52
29) Tetrahydrofuran	7.53	42	2458	4.266	ug/l	90
31) Cyclohexane	7.94	56	8036	1.636	ug/l #	43
36) 1,1-Dichloropropene	7.95	75	22639	5.056	ug/l #	51
37) Ethyl Acetate	7.15	43	7615	3.580	ug/l #	1
38) Carbon Tetrachloride	7.95	117	27995	6.102	ug/l #	18
41) Methacrylonitrile	7.46	41	323	4.136	ug/l #	43
55) 1,1,2-Trichloroethane	10.76	97	2638	1.161	ug/l #	23
56) Ethyl methacrylate	10.66	69	769	4.022	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.96	63	27	17.033	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	58022	34.272	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.95	105	15921	1.509	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	58022	79.698	ug/l #	7
90) Hexachloroethane	14.10	117	2737	1.213	ug/l #	11
95) Naphthalene	15.37	128	2035	2.998	ug/l #	79

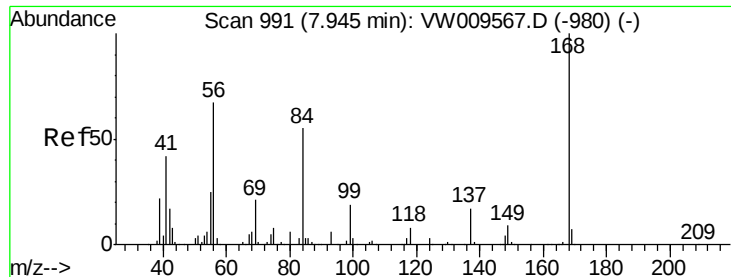
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



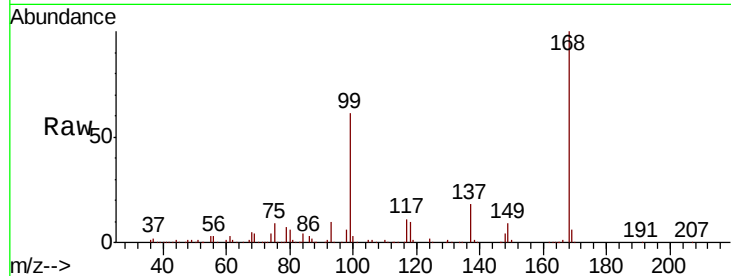


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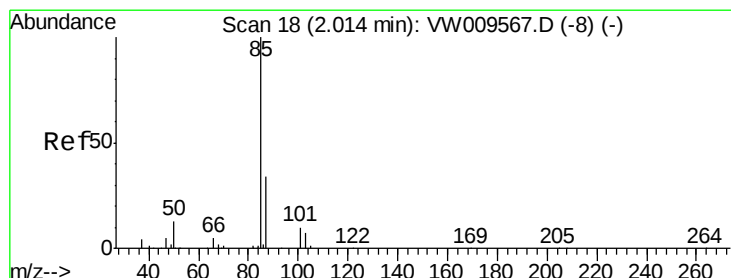
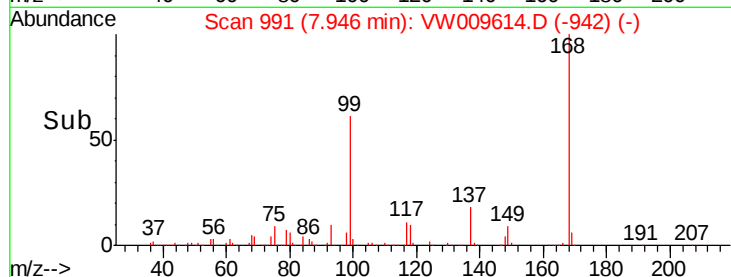
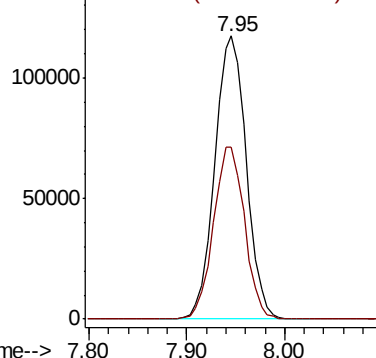
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:168 Resp: 261150
 Ion Ratio Lower Upper
 168 100
 99 60.9 45.4 68.0



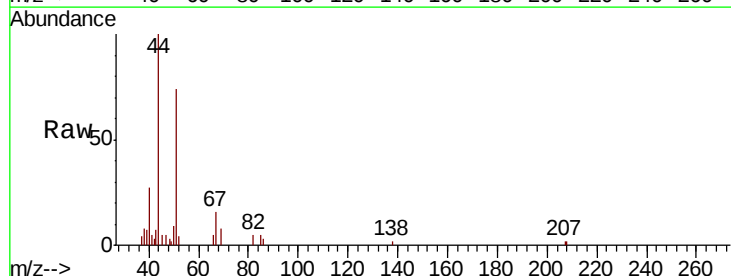
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VW



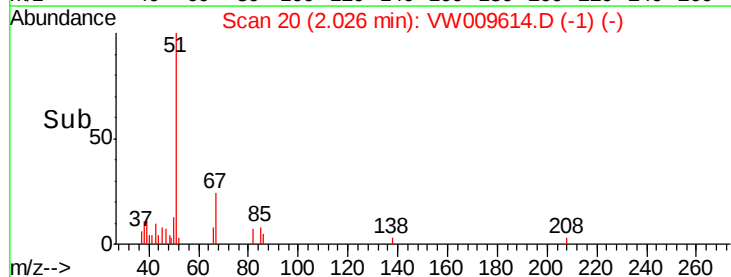
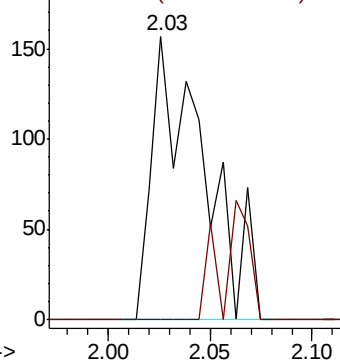
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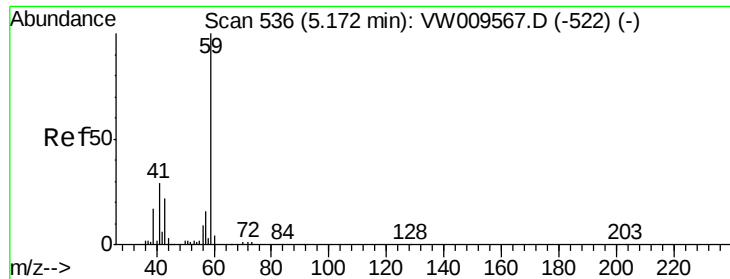
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 2.03 min Scan# 20
 Delta R.T. 0.01 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Tgt Ion: 85 Resp: 281
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW
 Ion 86.90 (86.60 to 87.60): VW



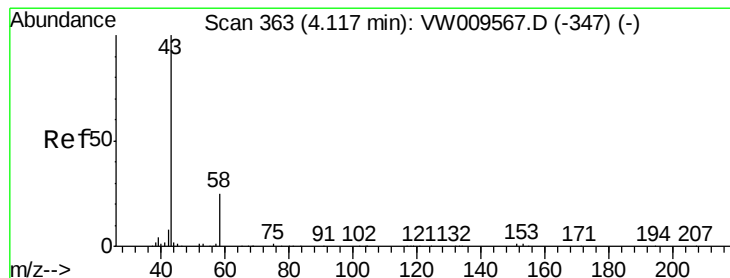
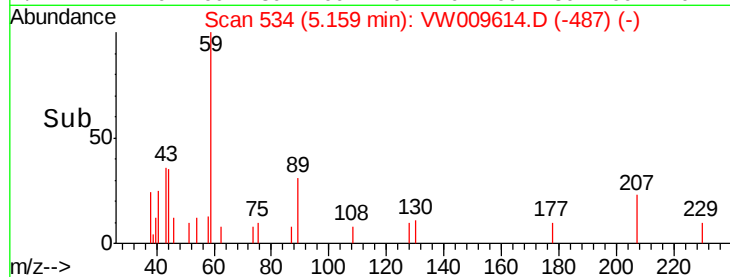
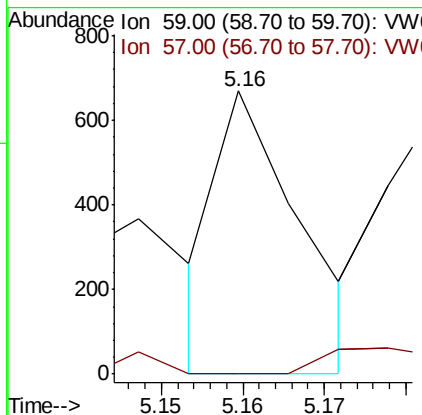
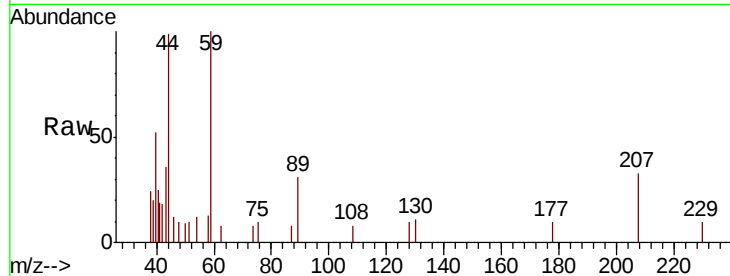


#11

Tert butyl alcohol
 Concen: 2.726 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :

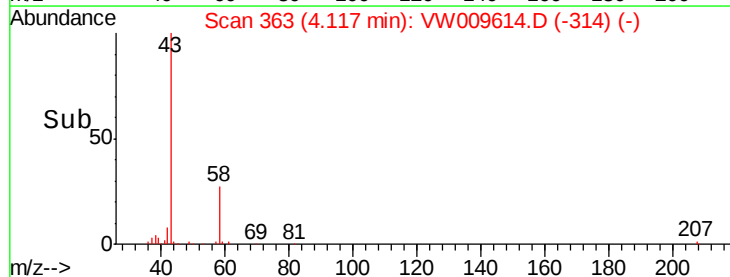
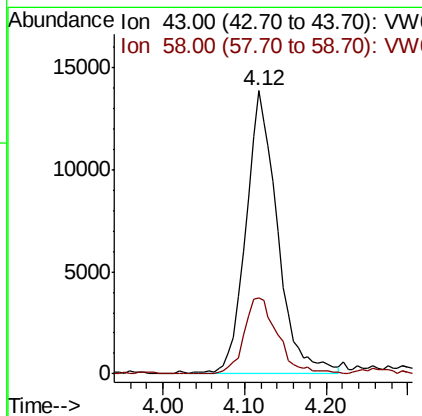
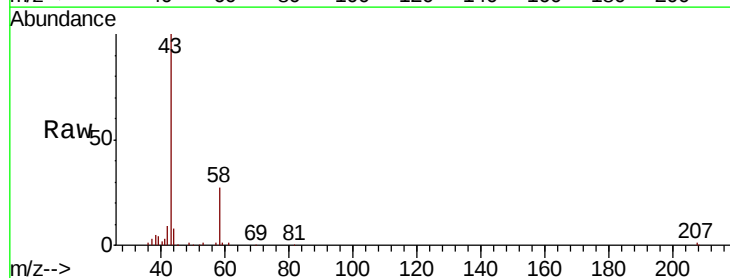
Tot Ion: 59 Resp: 472
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.4 14.0#

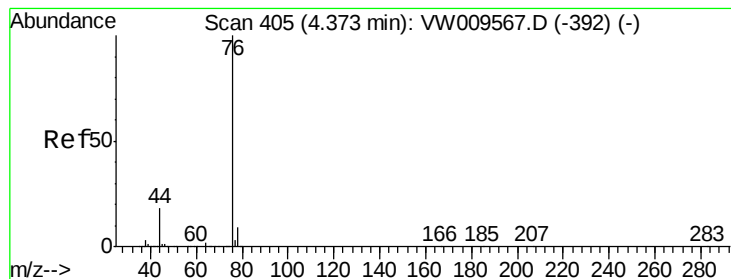


#16

Acetone
 Concen: 54.845 ug/l
 RT: 4.12 min Scan# 363
 Delta R.T. 0.00 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Tgt Ion: 43 Resp: 36825
 Ion Ratio Lower Upper
 43 100
 58 27.0 23.6 35.4





#17

Carbon Disulfide

Concen: 1.612 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

Instrument :

MSVOA_W

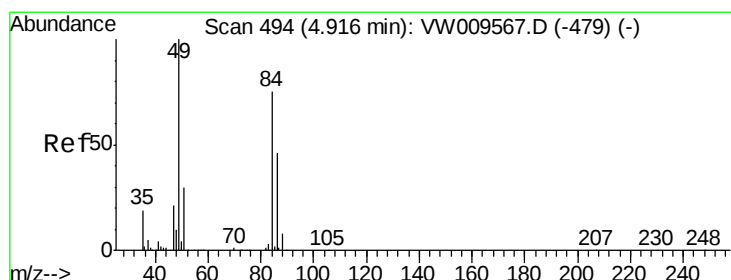
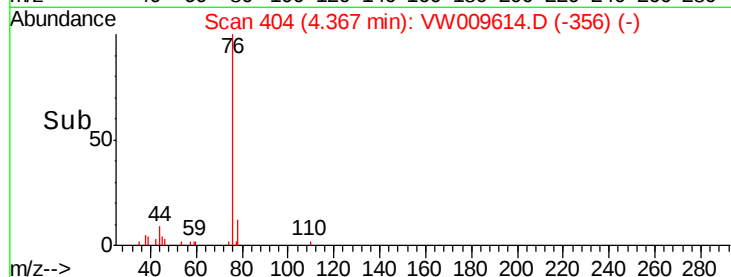
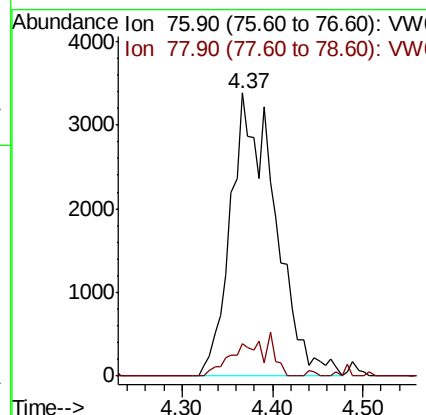
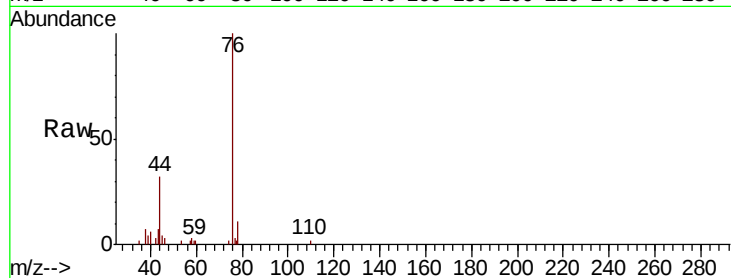
ClientSampleId :

Tot Ion: 76 Resp: 11560

Ion Ratio Lower Upper

76 100

78 11.4 6.6 9.8#



#20

Methylene Chloride

Concen: 2.625 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

Tgt Ion: 84 Resp: 16595

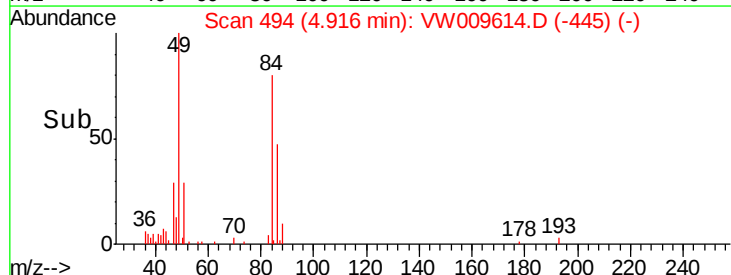
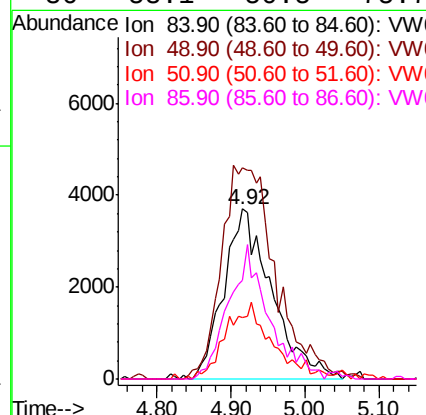
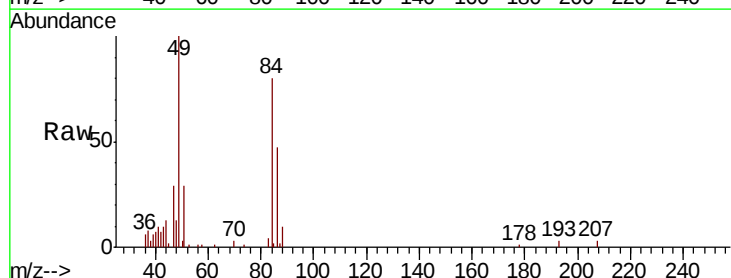
Ion Ratio Lower Upper

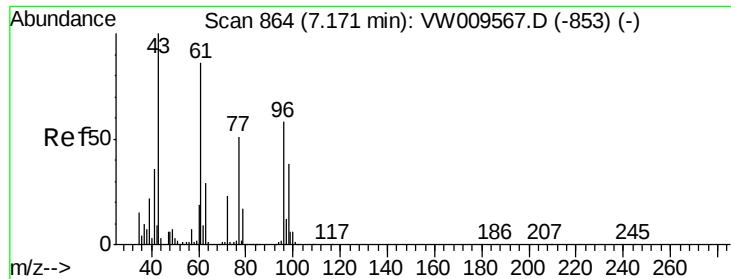
84 100

49 119.8 99.1 148.7

51 36.5 28.7 43.1

86 58.1 50.5 75.7





#25

2-Butanone

Concen: 8.207 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

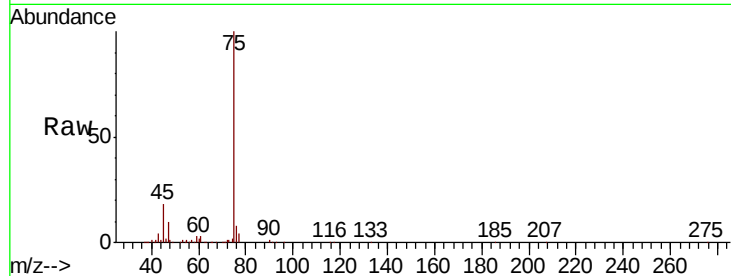
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 7615

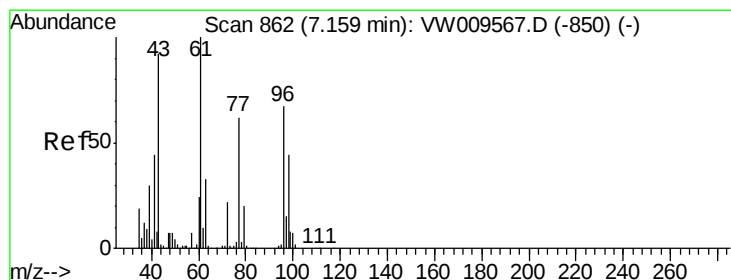
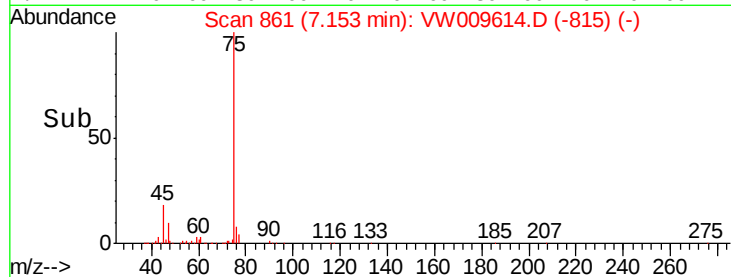
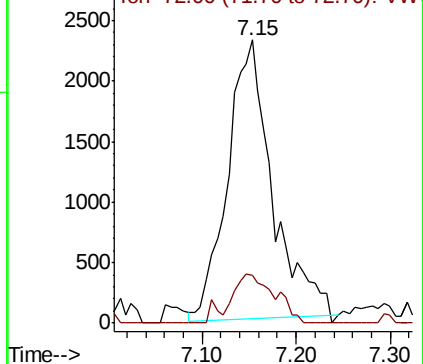
Ion Ratio Lower Upper

43 100

72 17.4 20.0 30.0#



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



#26

2,2-Dichloropropane

Concen: 2.492 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW009614.D

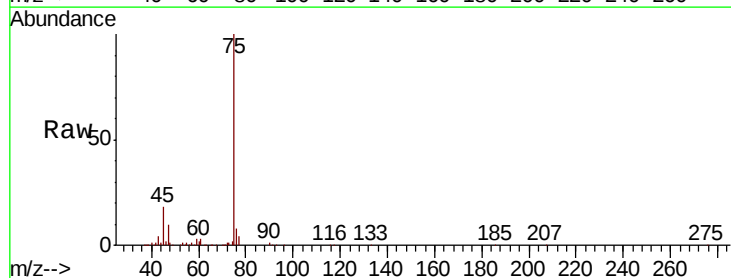
Acq: 31 Mar 2019 16:48

Tgt Ion: 77 Resp: 7465

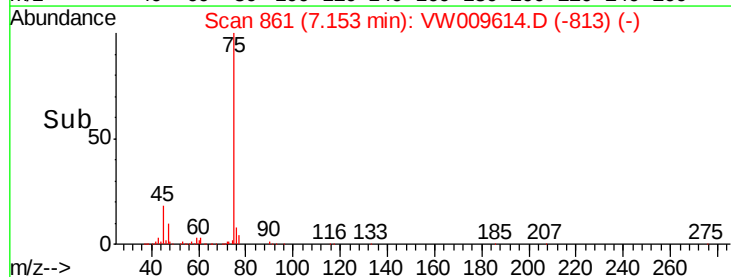
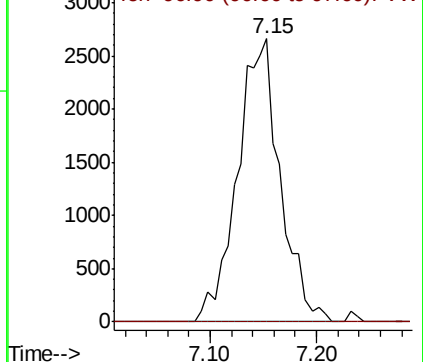
Ion Ratio Lower Upper

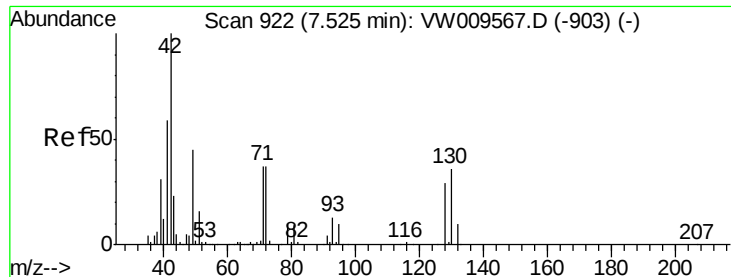
77 100

97 0.0 11.6 34.7#



Abundance Ion 76.90 (76.60 to 77.60): VW
Ion 96.90 (96.60 to 97.60): VW

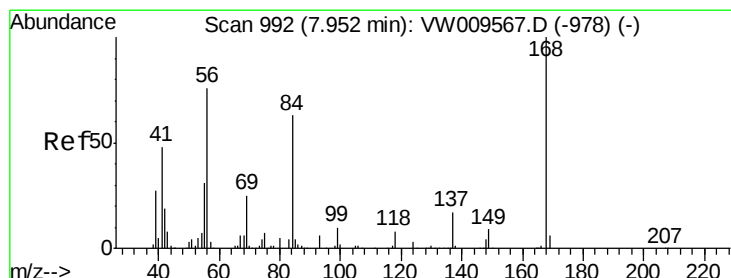
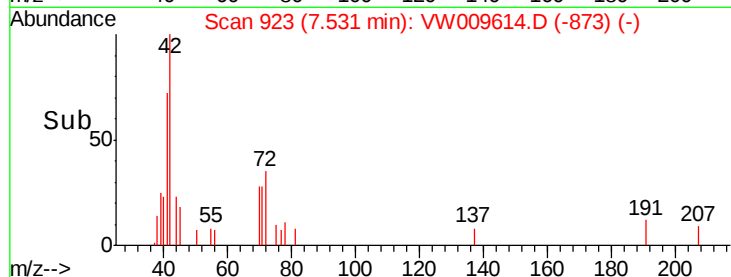
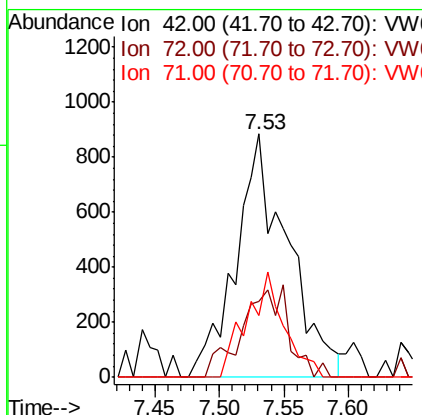
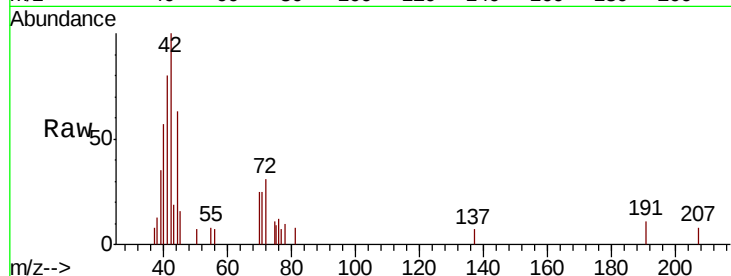




#29
Tetrahydrofuran
Concen: 4.266 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

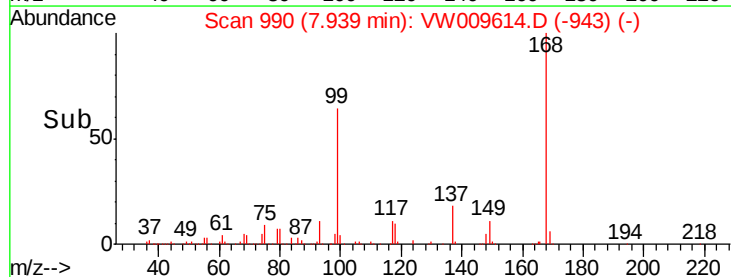
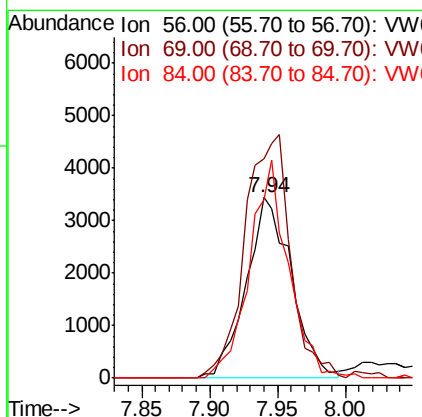
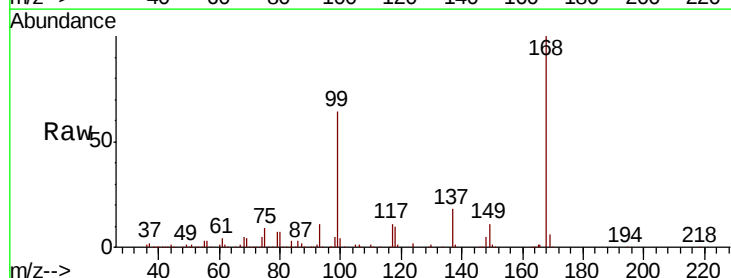
Instrument :
MSVOA_W
ClientSampled :

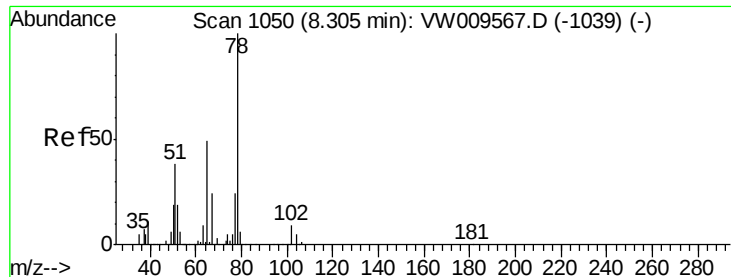
Tot Ion: 42 Resp: 2458
Ion Ratio Lower Upper
42 100
72 33.8 32.4 48.6
71 31.5 30.1 45.1



#31
Cyclohexane
Concen: 1.636 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

Tgt Ion: 56 Resp: 8036
Ion Ratio Lower Upper
56 100
69 124.1 26.1 39.1#
84 101.4 68.6 103.0





#33

1,2-Dichloroethane-d4

Concen: 36.685 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

Instrument :

MSVOA_W

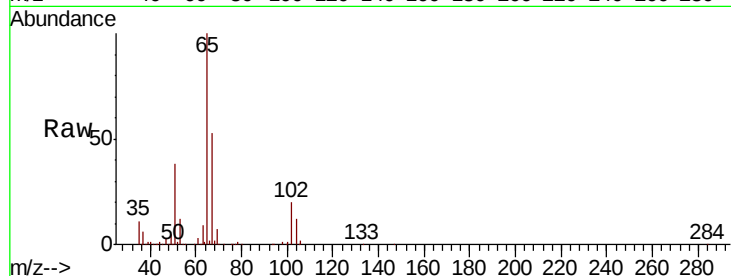
ClientSampleId :

Tot Ion: 65 Resp: 109553

Ion Ratio Lower Upper

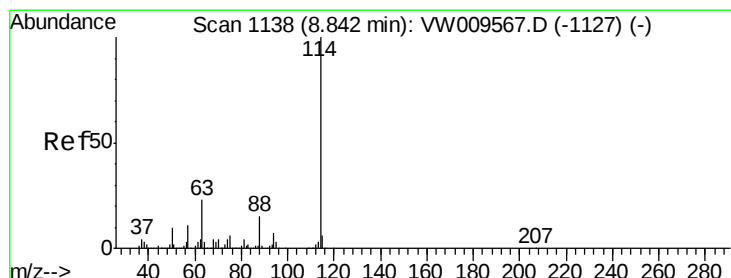
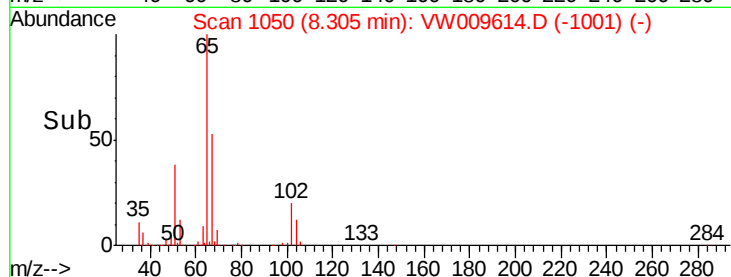
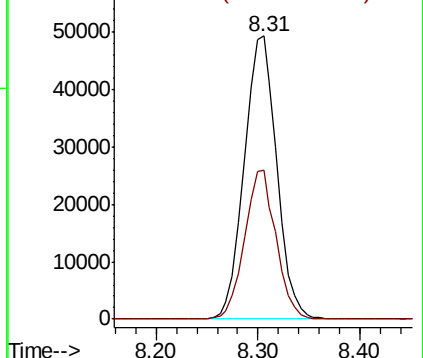
65 100

67 50.9 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

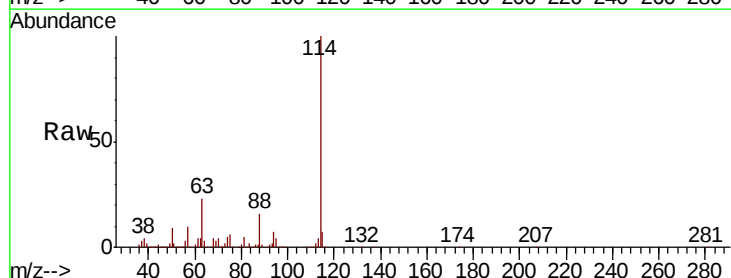
Tgt Ion: 114 Resp: 432872

Ion Ratio Lower Upper

114 100

63 23.0 0.0 42.2

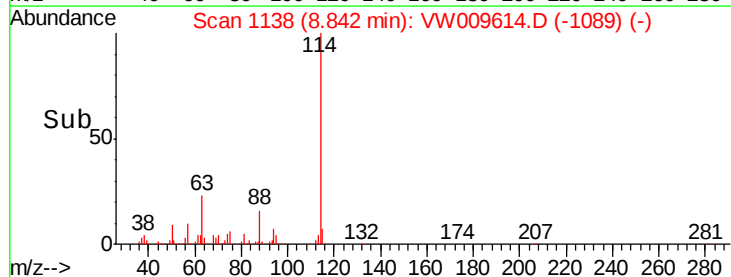
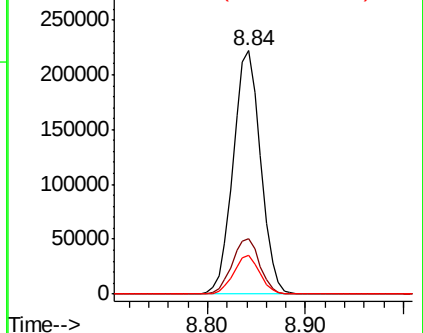
88 16.1 0.0 30.8

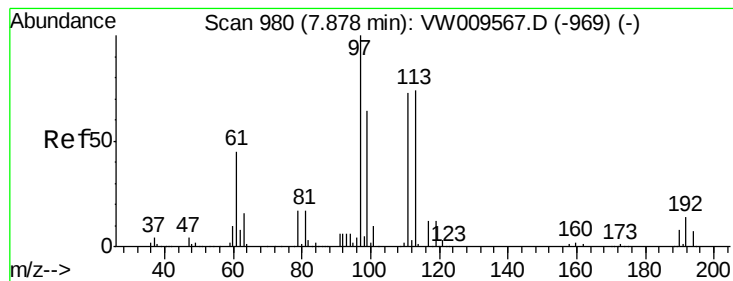


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 32.446 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

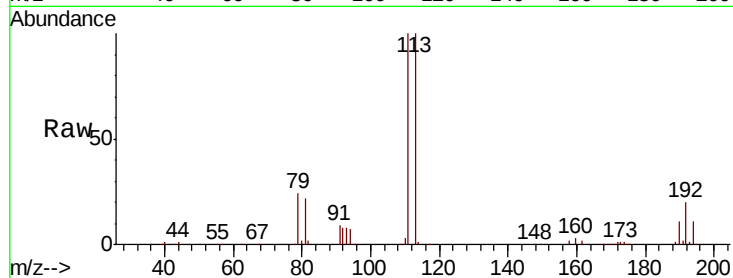
Tot Ion:113 Resp: 88214

Ion Ratio Lower Upper

113 100

111 103.3 82.6 124.0

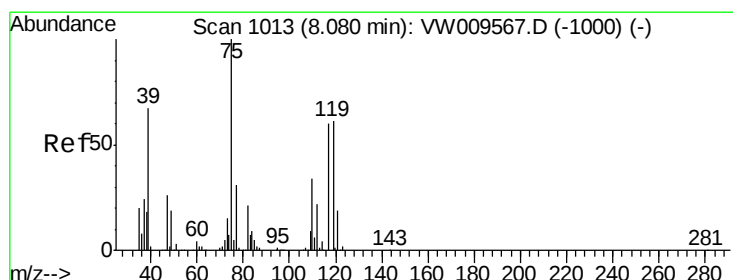
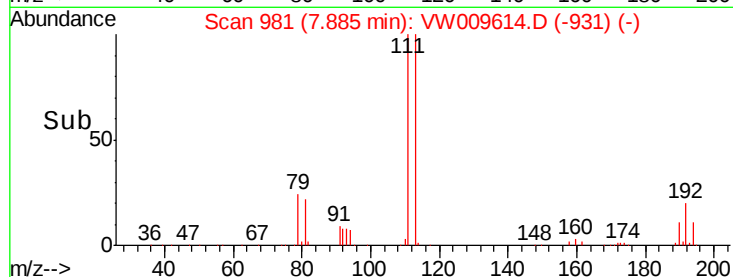
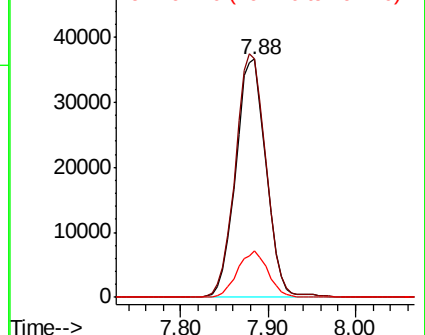
192 19.5 16.4 24.6



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: 5.056 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

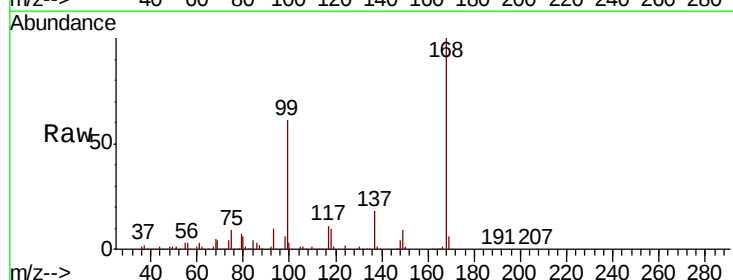
Tgt Ion: 75 Resp: 22639

Ion Ratio Lower Upper

75 100

110 9.1 16.8 50.4#

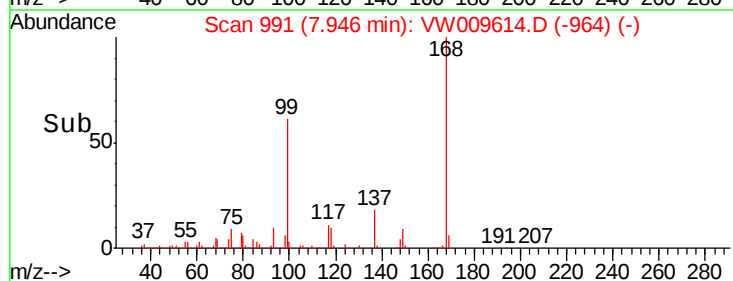
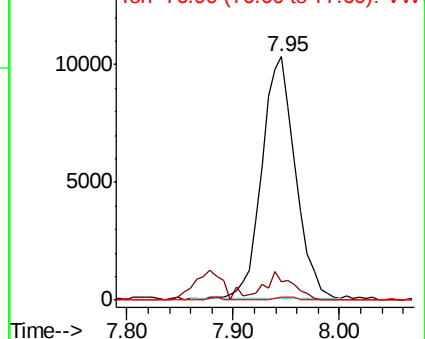
77 0.6 24.6 36.8#

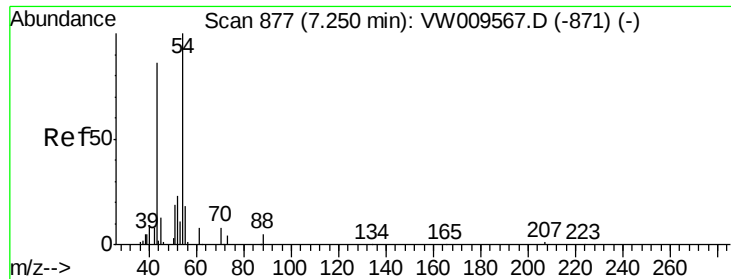


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

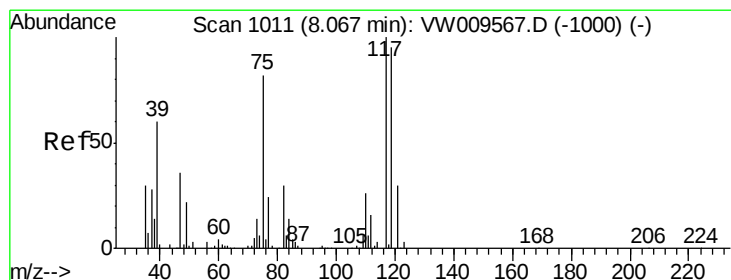
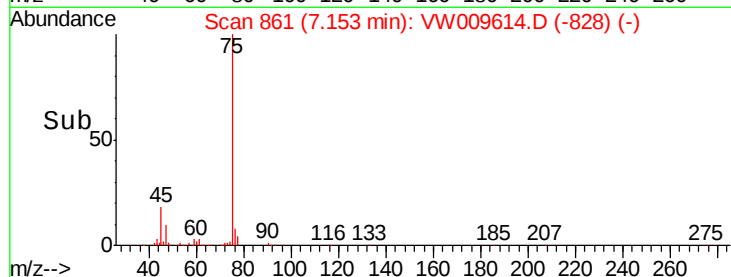
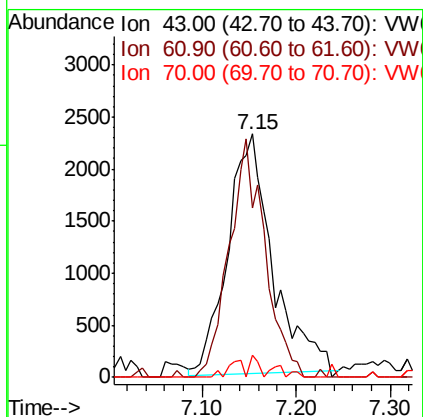
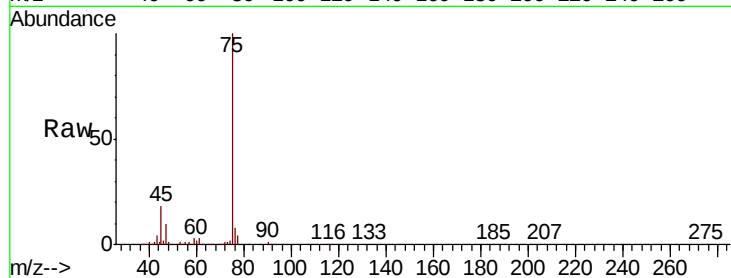




#37
Ethyl Acetate
Concen: 3.580 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.10 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

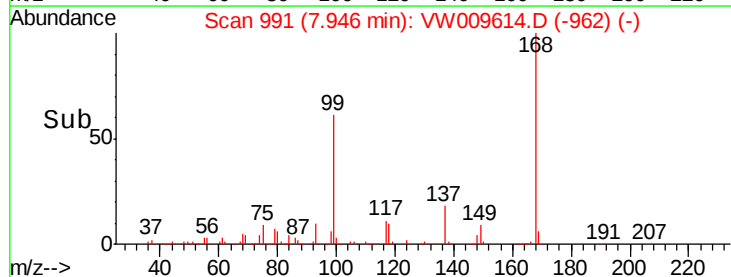
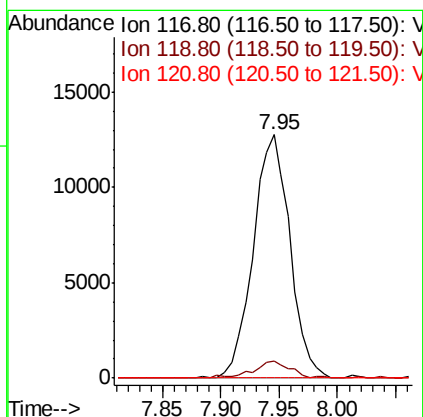
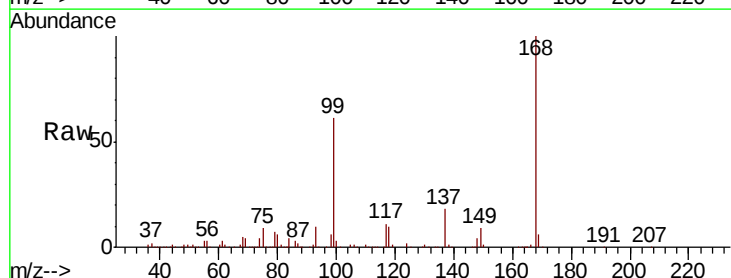
Instrument :
MSVOA_W
ClientSampleId :

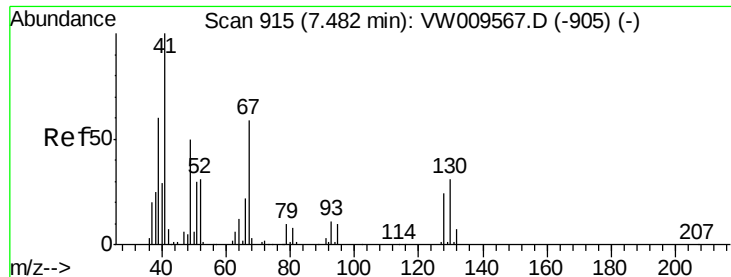
Tot Ion: 43 Resp: 7615
Ion Ratio Lower Upper
43 100
61 78.7 10.0 15.0#
70 1.7 7.3 10.9#



#38
Carbon Tetrachloride
Concen: 6.102 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

Tgt Ion: 117 Resp: 27995
Ion Ratio Lower Upper
117 100
119 7.2 75.4 113.0#
121 0.0 24.9 37.3#

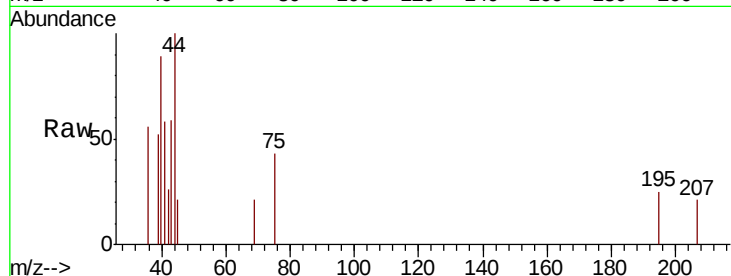




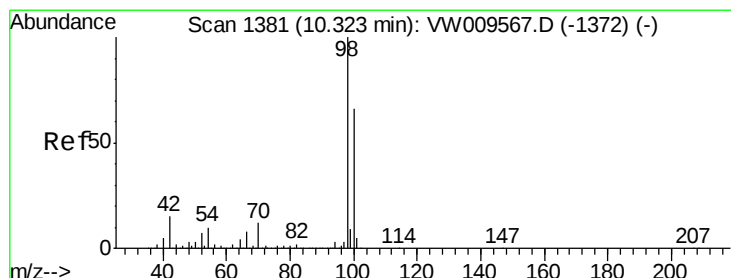
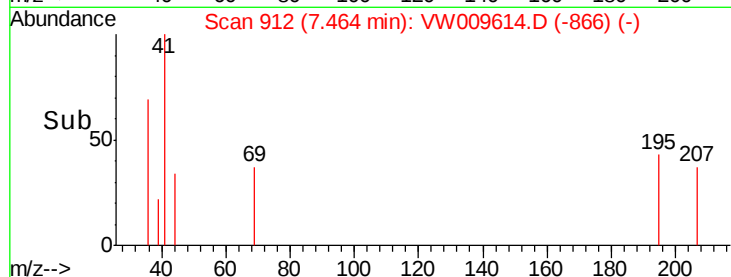
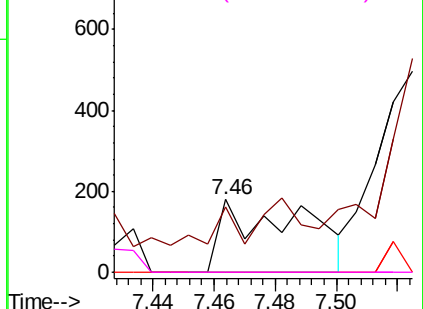
#41
Methacrylonitrile
Concen: 4.136 ug/l
RT: 7.46 min Scan# 912
Delta R.T. -0.02 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 41 Resp: 323
Ion Ratio Lower Upper
41 100
39 46.7 52.5 78.7#
67 0.0 56.6 84.8#
52 0.0 27.2 40.8#

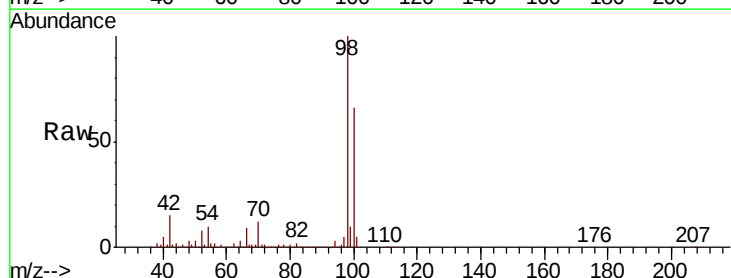


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

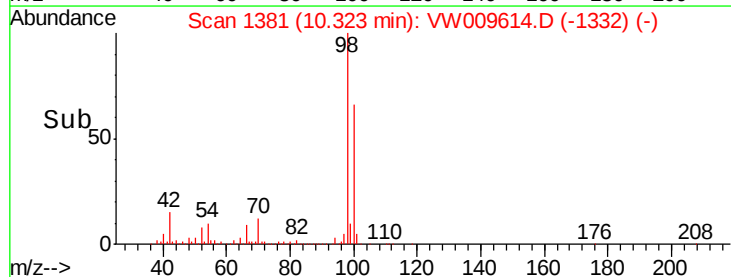
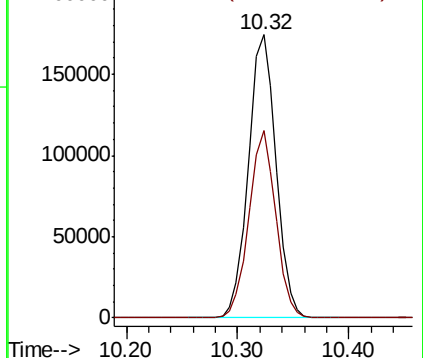


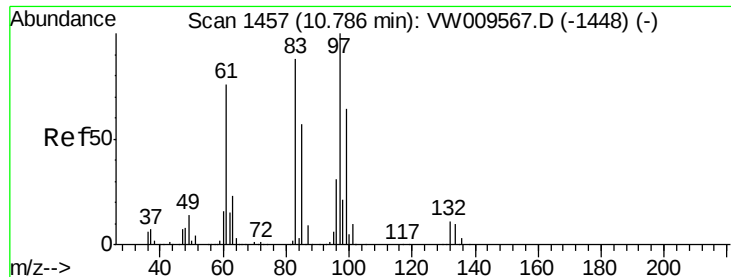
#50
Toluene-d8
Concen: 30.049 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

Tgt Ion: 98 Resp: 301960
Ion Ratio Lower Upper
98 100
100 64.2 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

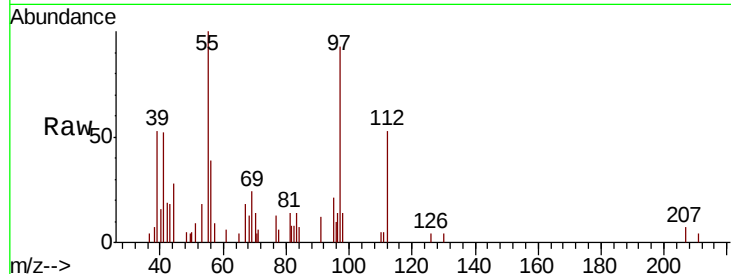




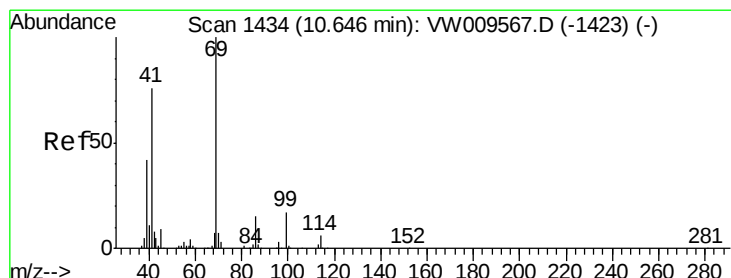
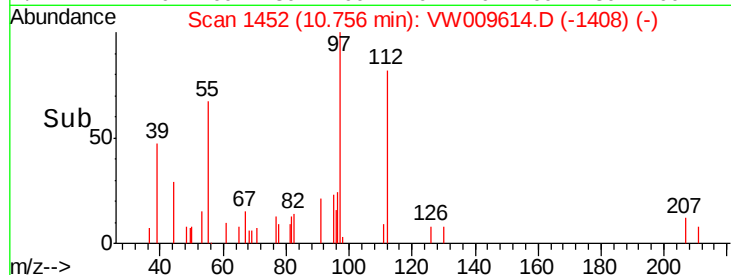
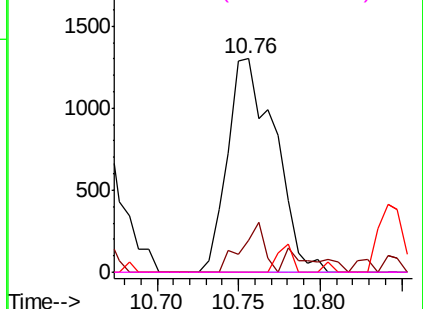
#55
 1,1,2-Trichloroethane
 Concen: 1.161 ug/l
 RT: 10.76 min Scan# 1452
 Delta R.T. -0.03 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 97 Resp: 2638
 Ion Ratio Lower Upper
 97 100
 83 14.8 66.3 99.5#
 85 0.0 41.4 62.2#
 99 0.0 48.7 73.1#

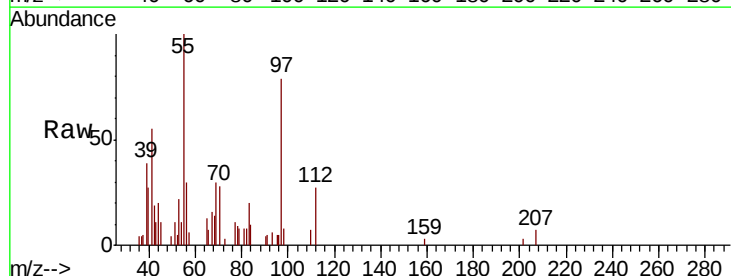


Abundance Ion 96.90 (96.60 to 97.60): VW
 Ion 82.90 (82.60 to 83.60): VW
 Ion 84.90 (84.60 to 85.60): VW
 Ion 98.90 (98.60 to 99.60): VW

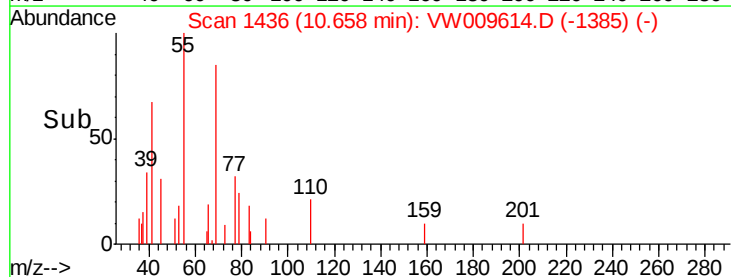
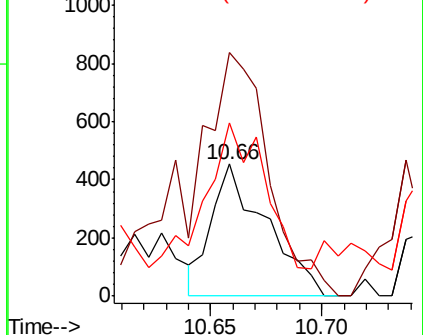


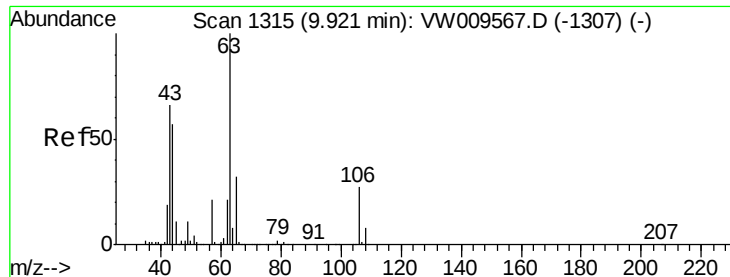
#56
 Ethyl methacrylate
 Concen: 4.022 ug/l
 RT: 10.66 min Scan# 1436
 Delta R.T. 0.01 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Tgt Ion: 69 Resp: 769
 Ion Ratio Lower Upper
 69 100
 41 275.4 59.3 88.9#
 39 134.1 36.2 54.2#



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

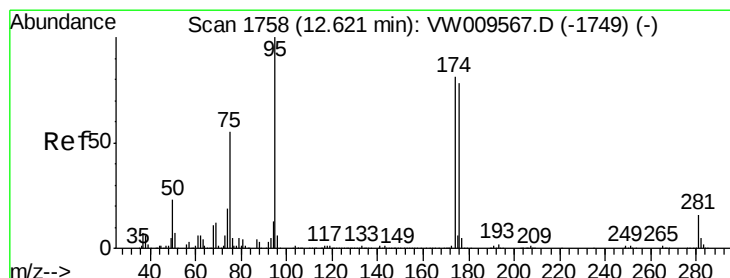
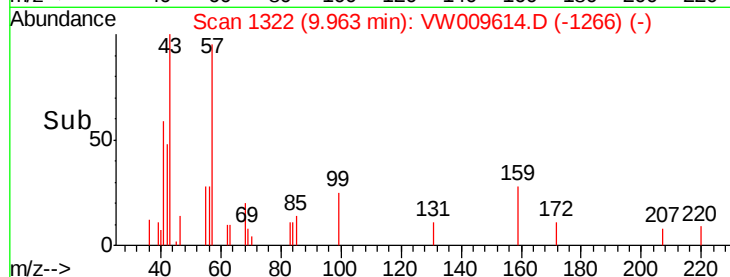
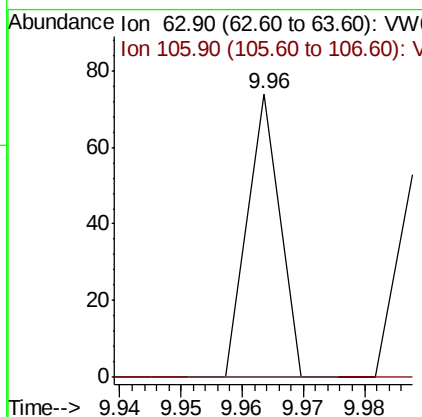
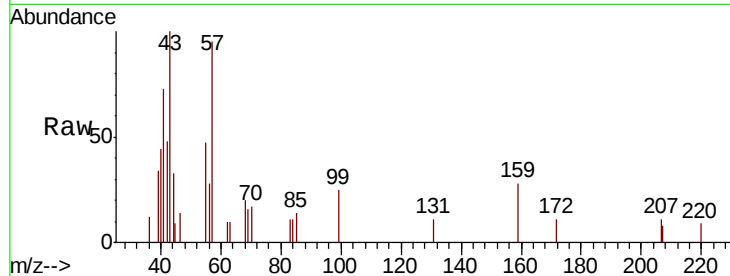




#58
 2-Chloroethyl Vinyl ether
 Concen: 17.033 ug/l
 RT: 9.96 min Scan# 1322
 Delta R.T. 0.04 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

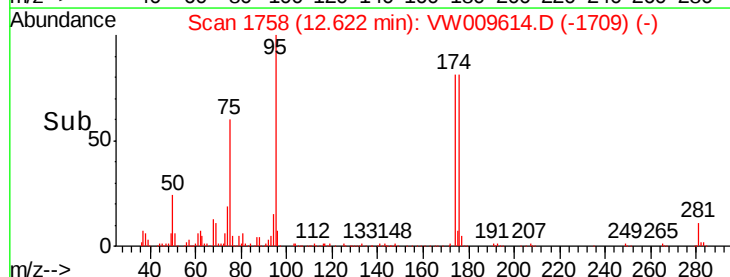
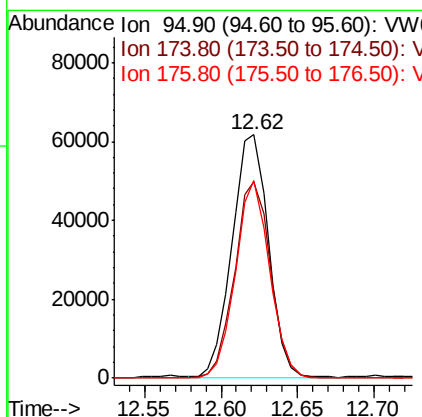
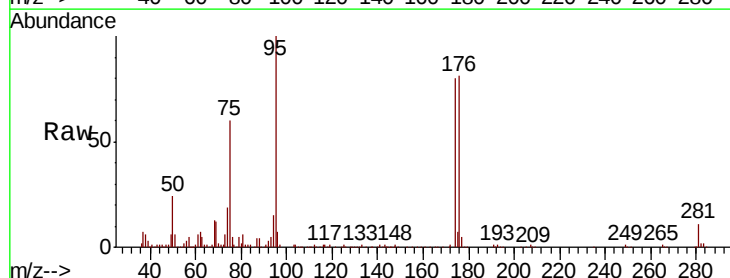
Instrument :
 MSVOA_W
 ClientSampleId :

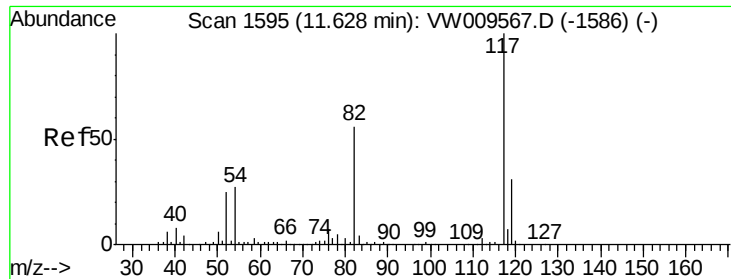
Tot Ion: 63 Resp: 27
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.9 34.3#



#62
 4-Bromofluorobenzene
 Concen: 27.000 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Tgt Ion: 95 Resp: 101219
 Ion Ratio Lower Upper
 95 100
 174 80.6 0.0 168.4
 176 76.8 0.0 161.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampled :

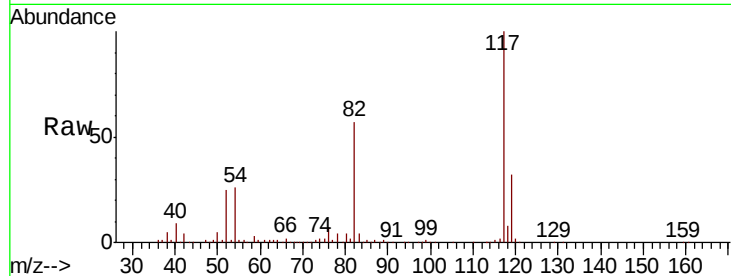
Tot Ion:117 Resp: 400029

Ion Ratio Lower Upper

117 100

82 57.2 43.6 65.4

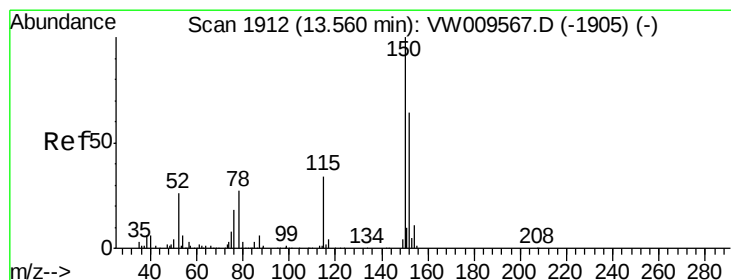
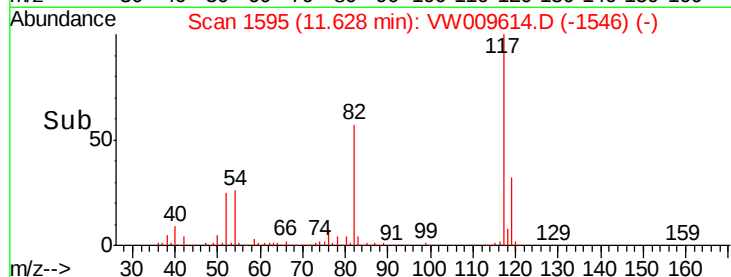
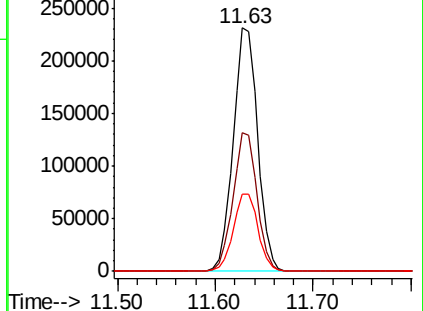
119 31.6 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009614.D

Acq: 31 Mar 2019 16:48

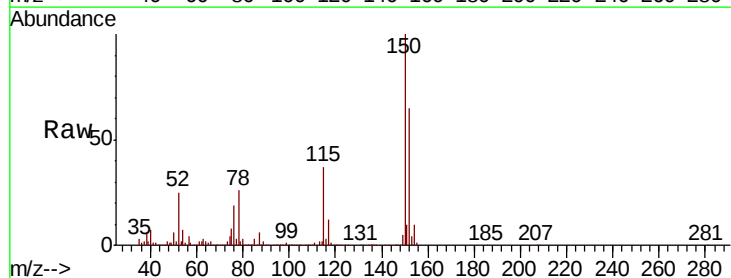
Tgt Ion:152 Resp: 180031

Ion Ratio Lower Upper

152 100

115 59.7 29.6 88.8

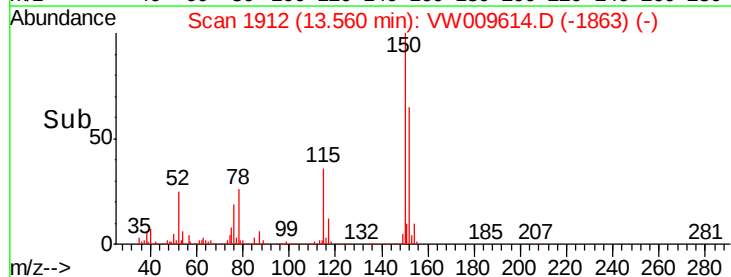
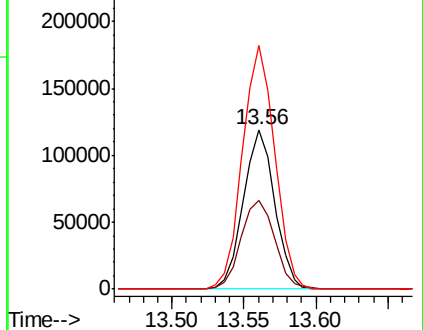
150 157.0 0.0 349.2

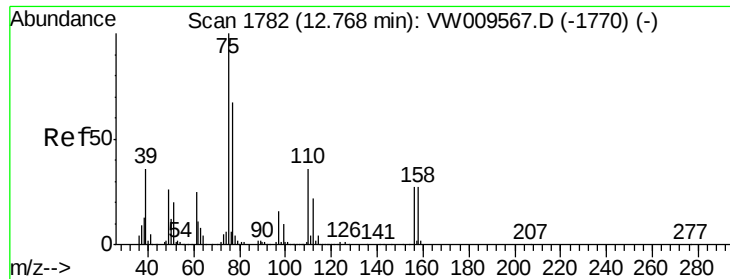


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

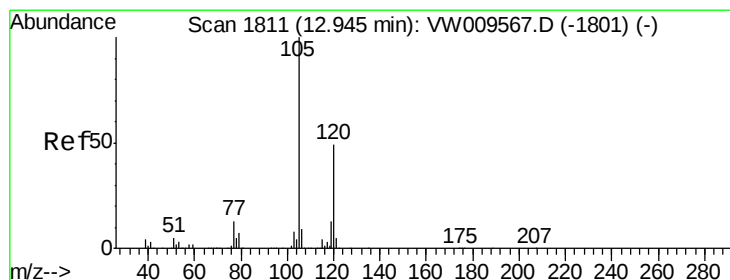
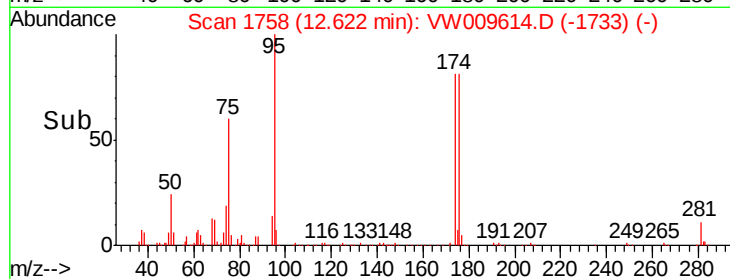
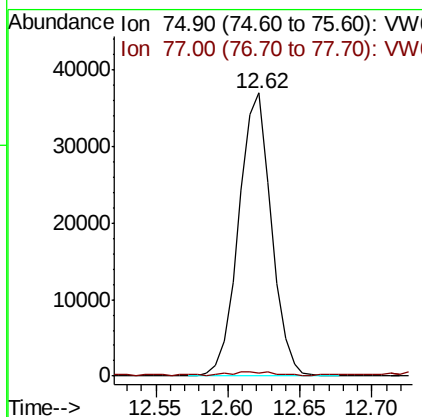
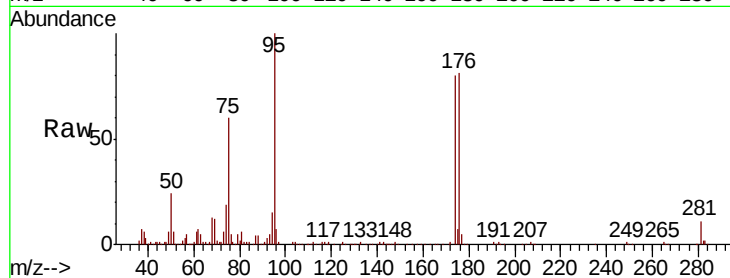




#76
 1,2,3-Trichloropropane
 Concen: 34.272 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

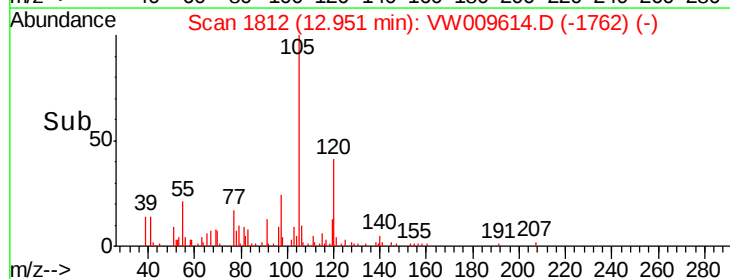
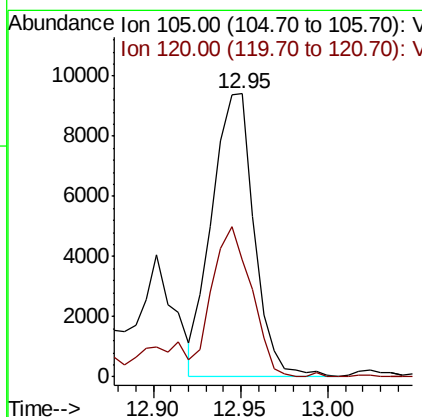
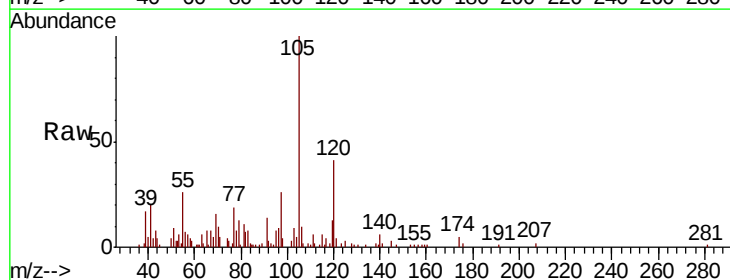
Instrument :
 MSVOA_W
 ClientSampleId :

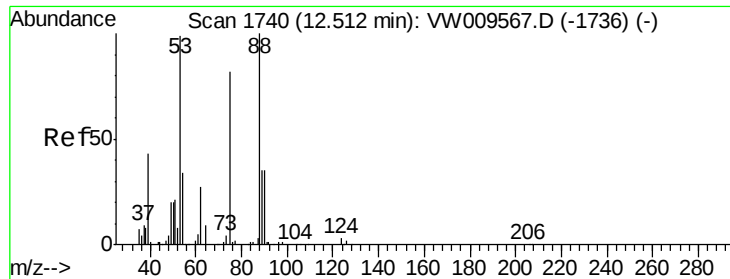
Tot Ion: 75 Resp: 58022
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.509 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: VW009614.D
 Acq: 31 Mar 2019 16:48

Tgt Ion: 105 Resp: 15921
 Ion Ratio Lower Upper
 105 100
 120 49.4 24.6 74.0

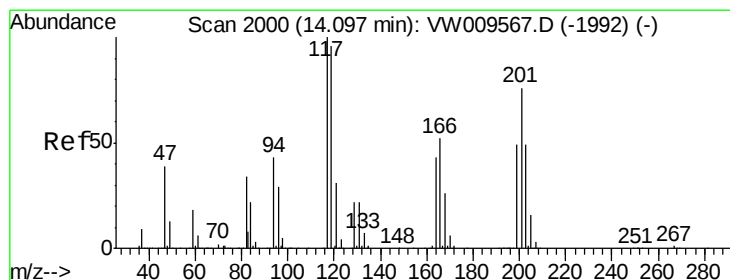
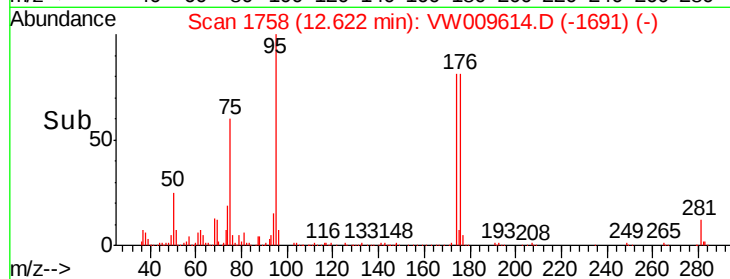
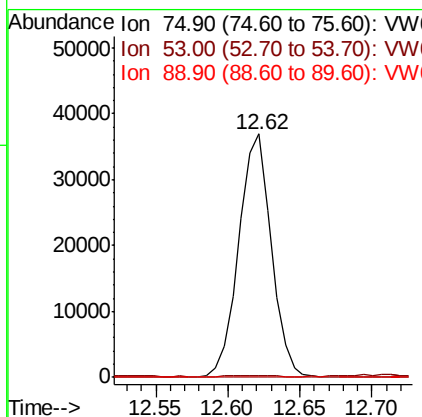
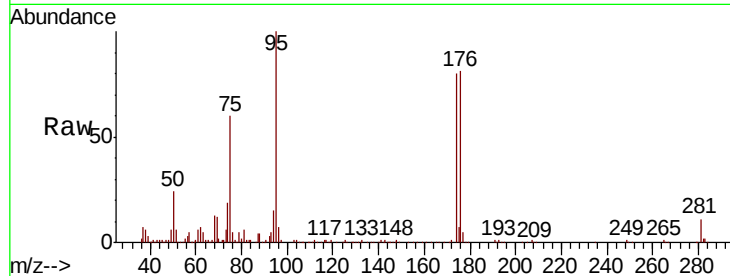




#81
trans-1,4-Dichloro-2-butene
Concen: 79.698 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

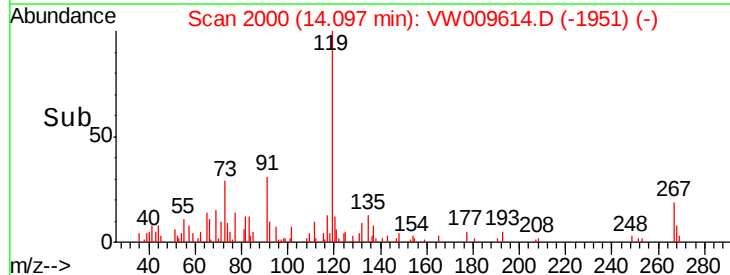
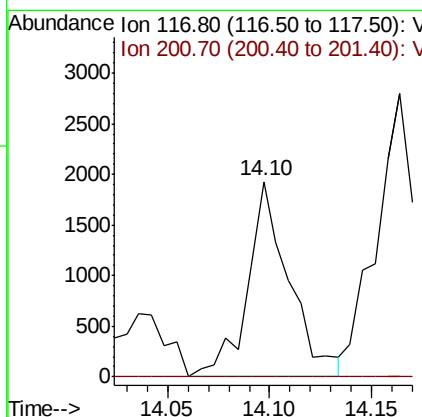
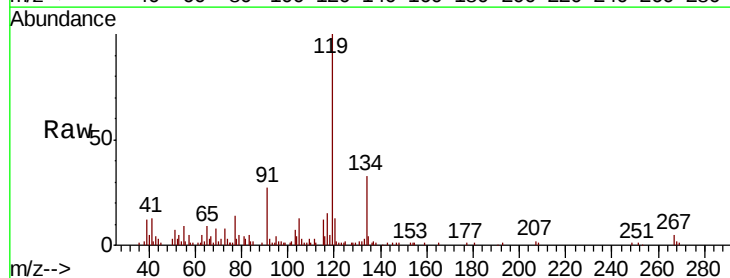
Instrument :
MSVOA_W
ClientSampleId :

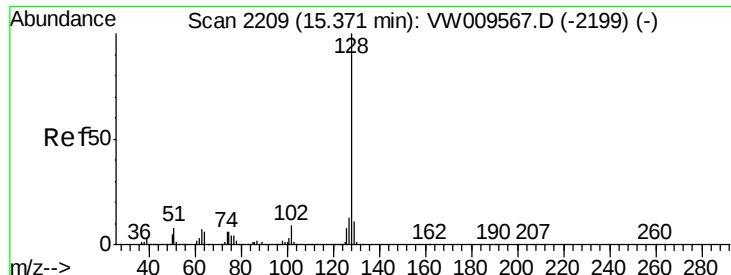
Tot Ion: 75 Resp: 58022
Ion Ratio Lower Upper
75 100
53 0.0 86.7 130.1#
89 0.1 36.4 54.6#



#90
Hexachloroethane
Concen: 1.213 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

Tgt Ion: 117 Resp: 2737
Ion Ratio Lower Upper
117 100
201 0.0 38.2 114.6#





#95
Naphthalene
Concen: 2.998 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009614.D
Acq: 31 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	19.8	10.8	16.2
129	0.0	8.7	13.1

