

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090519\
 Data File : VW012638.D
 Acq On : 05 Sep 2019 14:11
 Operator : SY/VA
 Sample : K4639-03
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 05 15:48:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	186506	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	309019	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	191513	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	40760	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	124439	56.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.26%	
35) Dibromofluoromethane	7.88	113	100010	54.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.44%	
50) Toluene-d8	10.32	98	329081	44.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.00%	
62) 4-Bromofluorobenzene	12.62	95	68530	25.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	51.98%	

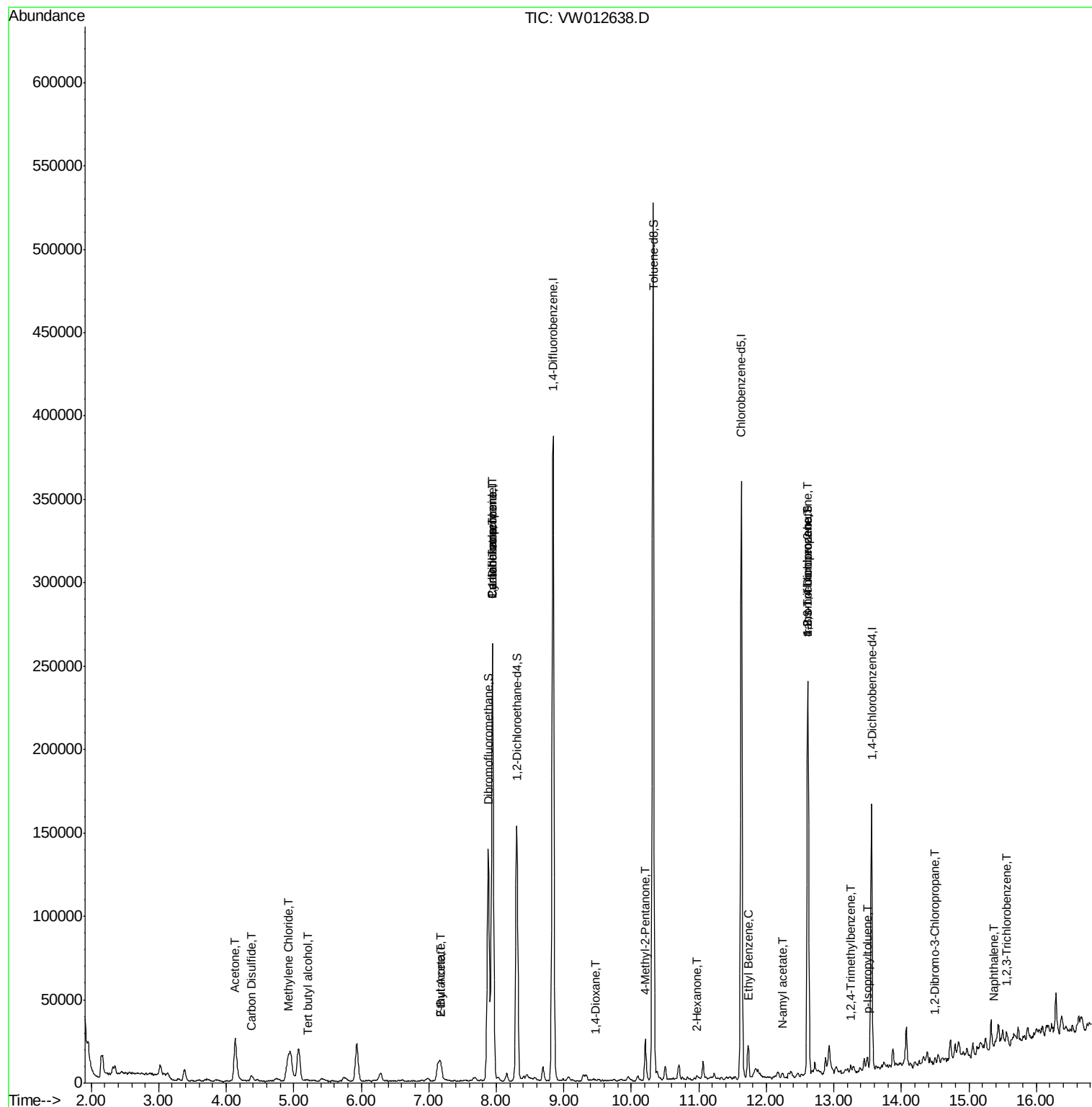
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	908	6.805	ug/l #	71
16) Acetone	4.14	43	50903	89.818	ug/l	95
17) Carbon Disulfide	4.38	76	6843	1.210	ug/l #	84
20) Methylene Chloride	4.91	84	8133	3.796	ug/l	92
25) 2-Butanone	7.18	43	17277	22.434	ug/l	98
31) Cyclohexane	7.95	56	6060	1.517	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	15492	4.851	ug/l #	53
37) Ethyl Acetate	7.18	43	17277	9.873	ug/l #	73
38) Carbon Tetrachloride	7.95	117	18802	6.803	ug/l #	16
49) 1,4-Dioxane	9.46	88	19	1.189	ug/l #	14
51) 4-Methyl-2-Pentanone	10.21	43	18213	11.047	ug/l	98
59) 2-Hexanone	10.97	43	1866	1.600	ug/l	87
67) Ethyl Benzene	11.73	91	12907	1.777	ug/l	96
74) N-amyl acetate	12.24	43	2052	2.224	ug/l #	59
76) 1,2,3-Trichloropropane	12.62	75	37332	94.042	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	37332	206.190	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.25	105	2916	1.137	ug/l	80
86) p-Isopropyltoluene	13.50	119	3779	1.366	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.49	75	108	1.144	ug/l	65
95) Naphthalene	15.37	128	2332	5.707	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.56	180	1688	2.469	ug/l #	62

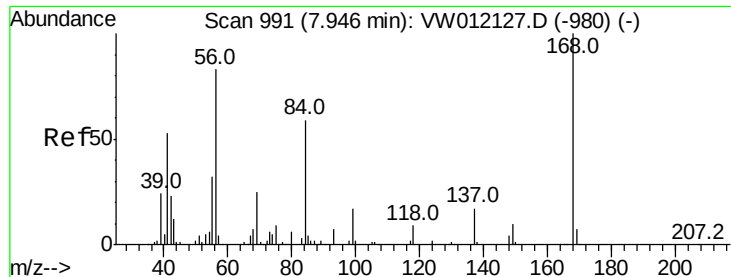
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

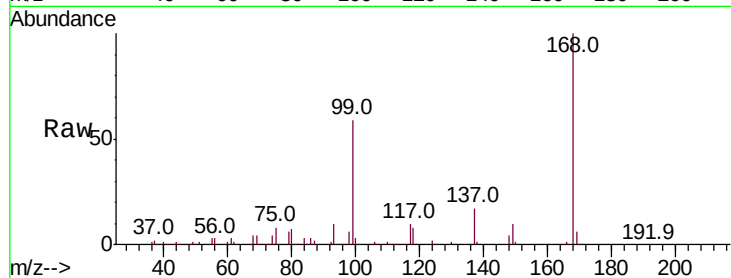
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 186506

Ion Ratio Lower Upper

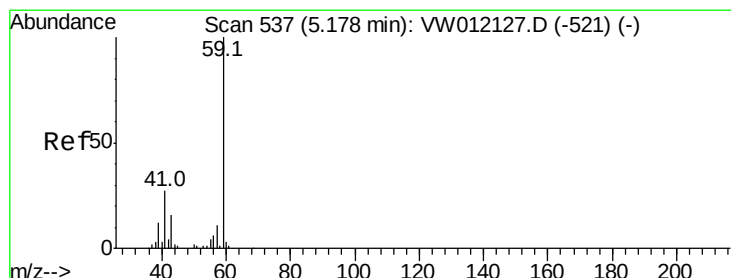
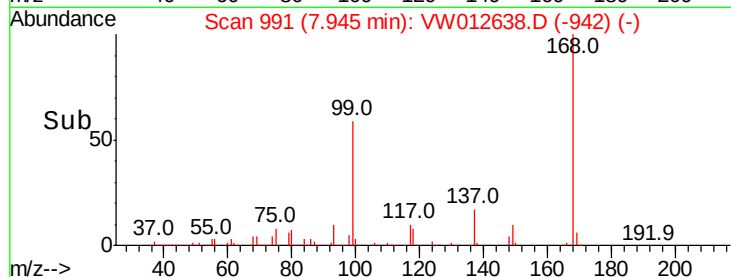
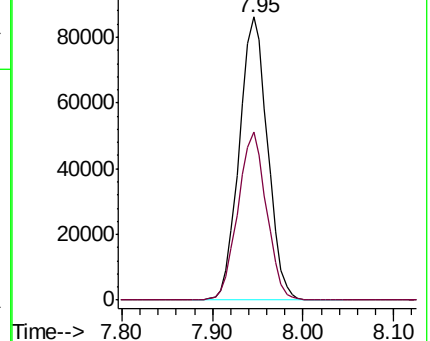
168 100

99 59.3 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 6.805 ug/l

RT: 5.21 min Scan# 542

Delta R.T. 0.03 min

Lab File: VW012638.D

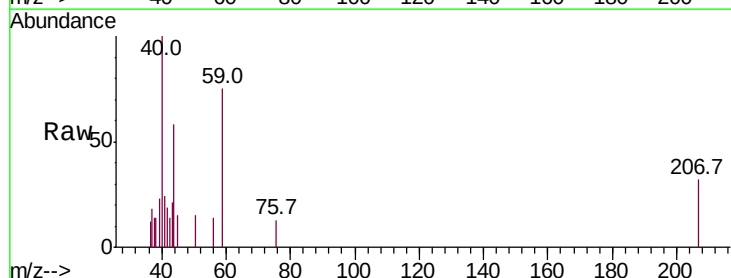
Acq: 05 Sep 2019 14:11

Tgt Ion: 59 Resp: 908

Ion Ratio Lower Upper

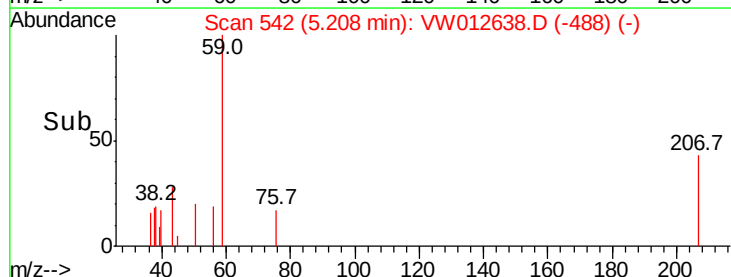
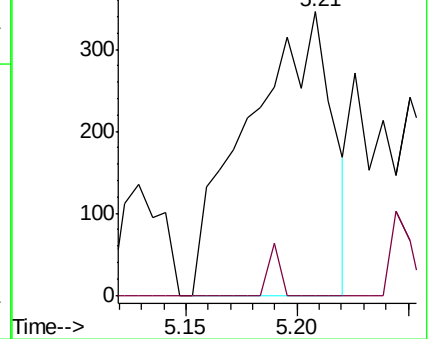
59 100

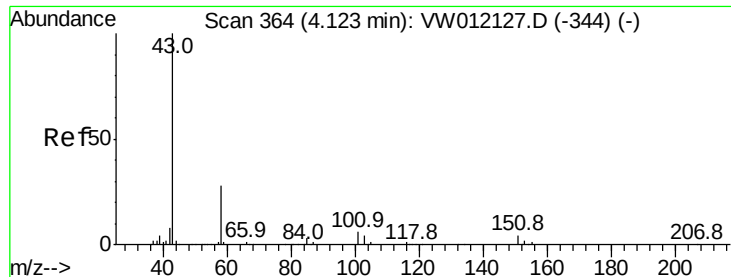
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

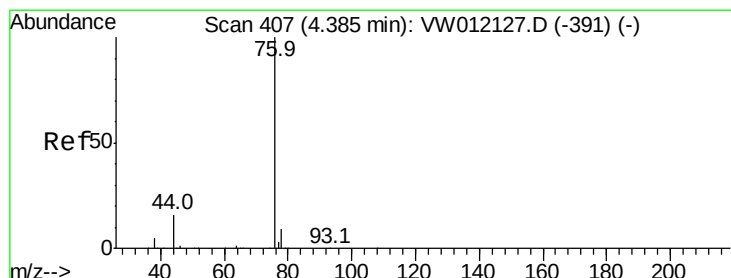
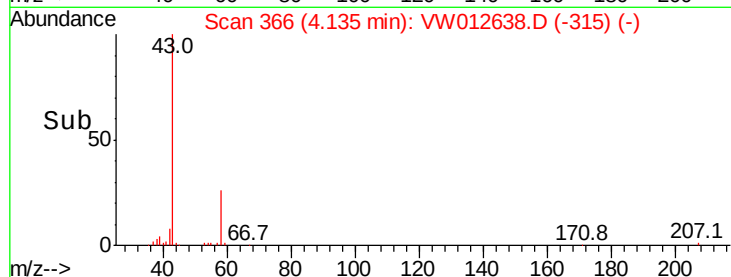
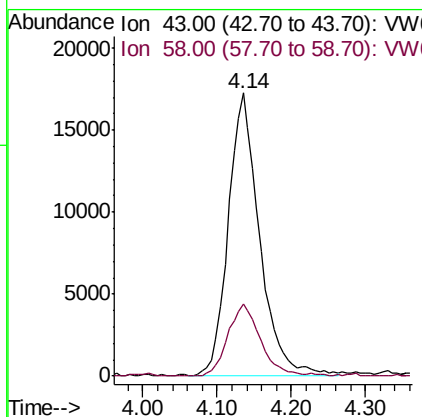
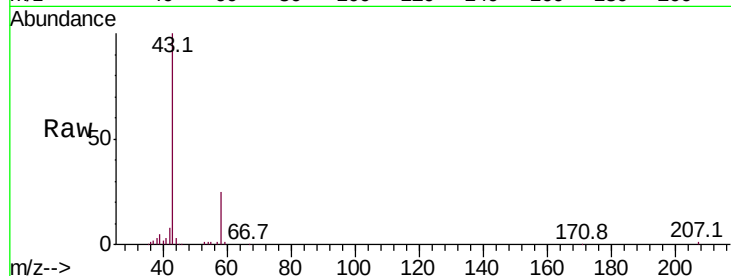




#16
Acetone
Concen: 89.818 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.01 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

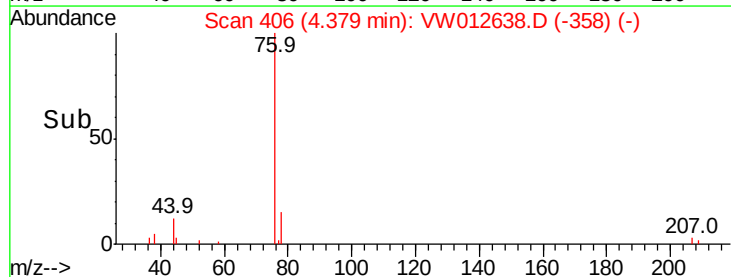
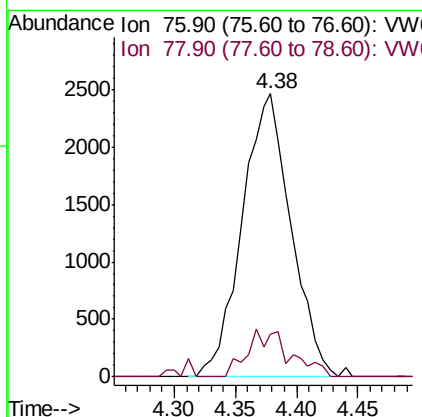
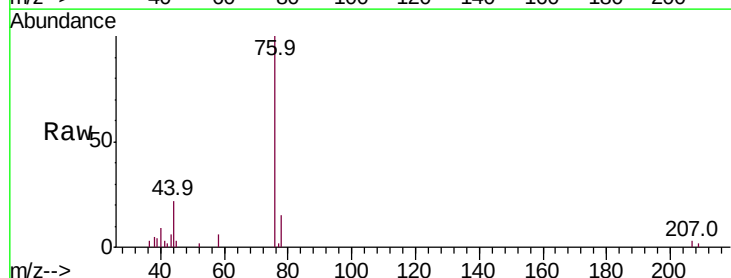
Instrument :
MSVOA_W
ClientSampleId :

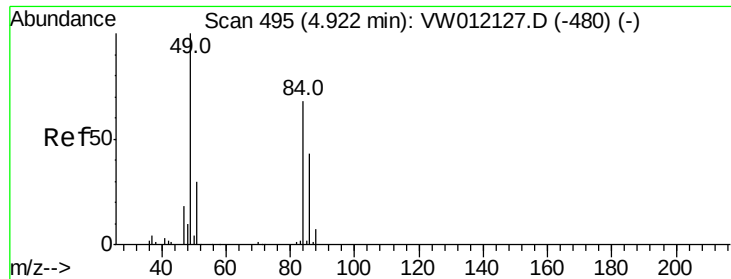
Tot Ion: 43 Resp: 50903
Ion Ratio Lower Upper
43 100
58 25.4 22.4 33.6



#17
Carbon Disulfide
Concen: 1.210 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

Tgt Ion: 76 Resp: 6843
Ion Ratio Lower Upper
76 100
78 15.1 7.3 10.9#

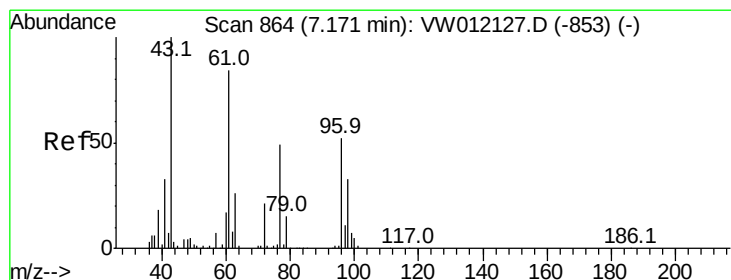
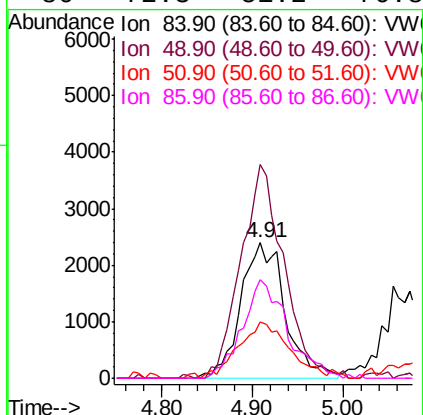
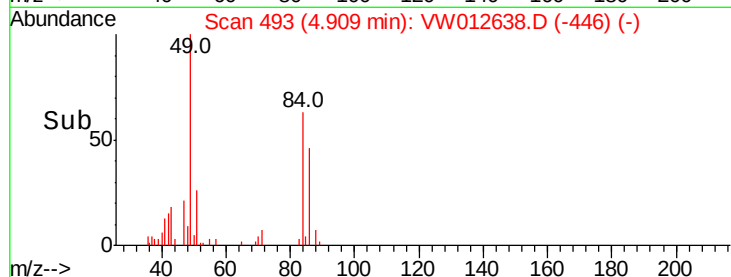
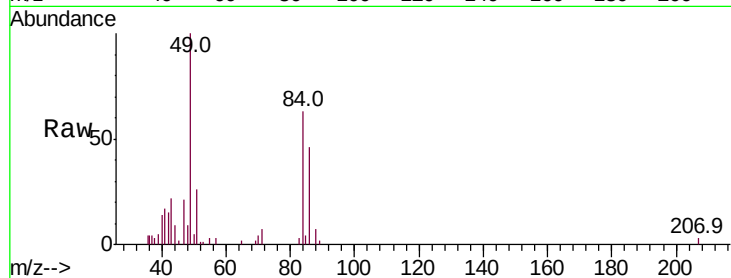




#20
Methylene Chloride
Concen: 3.796 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

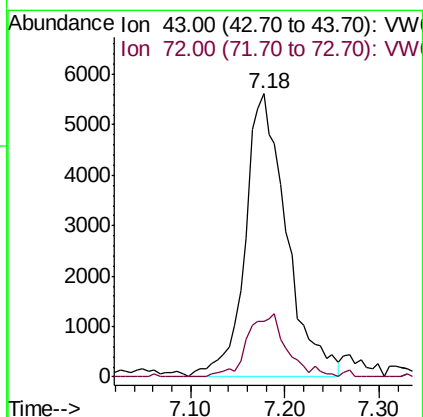
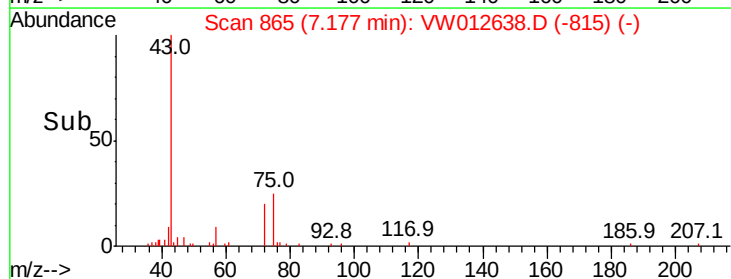
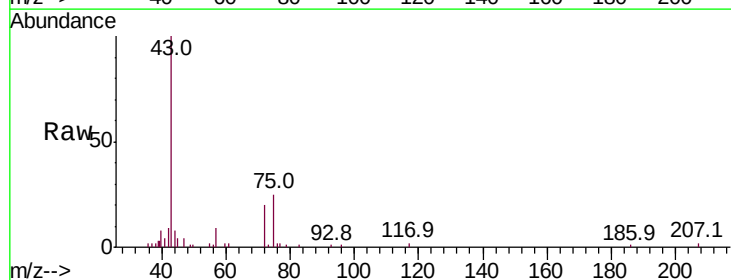
Instrument :
MSVOA_W
ClientSampled :

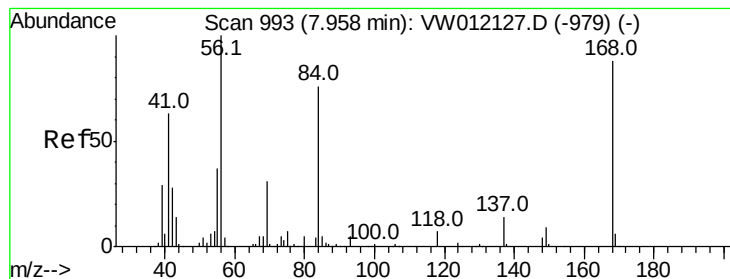
Tot Ion:	84	Resp:	8133
Ion	Ratio	Lower	Upper
84	100		
49	155.3	117.8	176.8
51	38.7	35.6	53.4
86	72.3	51.2	76.8



#25
2-Butanone
Concen: 22.434 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

Tgt Ion:	43	Resp:	17277
Ion	Ratio	Lower	Upper
43	100		
72	19.8	16.6	24.8





#31

Cyclohexane

Concen: 1.517 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

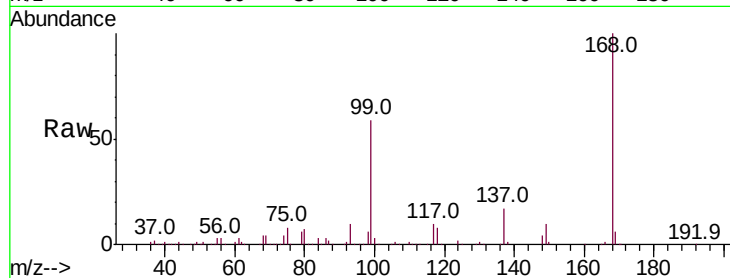
Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

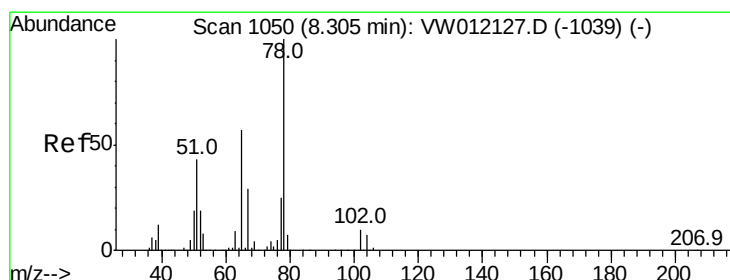
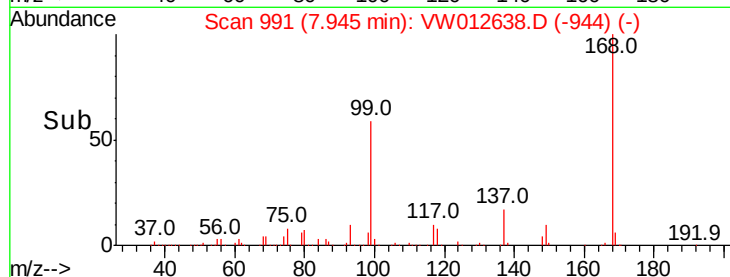
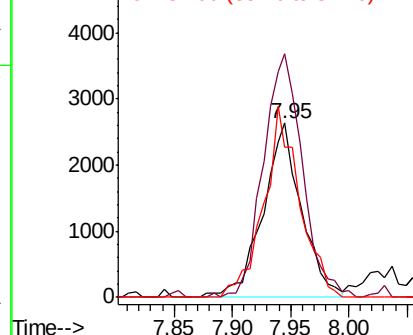
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 6060

Ion	Ratio	Lower	Upper
56	100		
69	139.9	24.9	37.3#
84	86.6	60.6	90.8



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 56.127 ug/l

RT: 8.30 min Scan# 1049

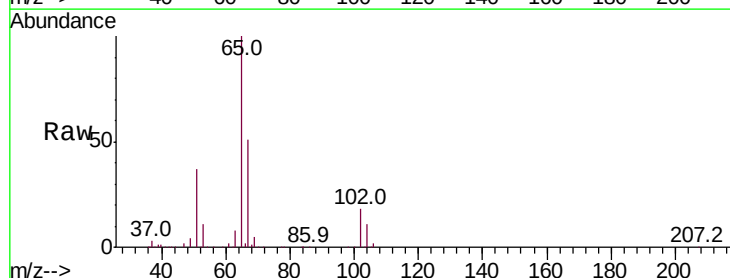
Delta R.T. -0.01 min

Lab File: VW012638.D

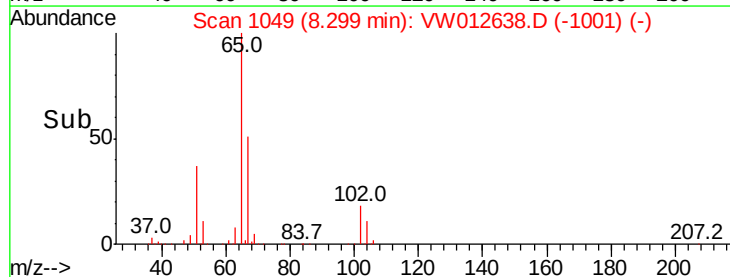
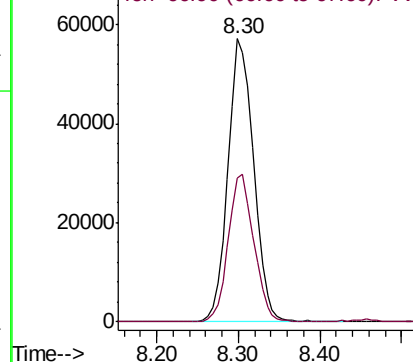
Acq: 05 Sep 2019 14:11

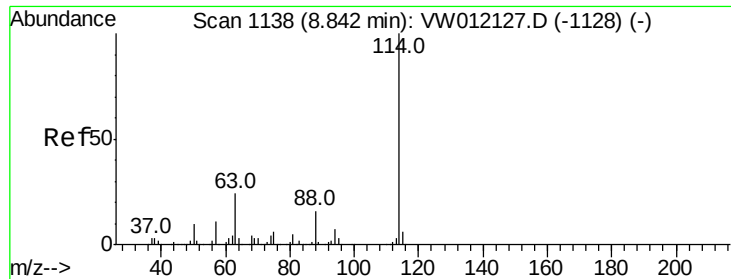
Tgt Ion: 65 Resp: 124439

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

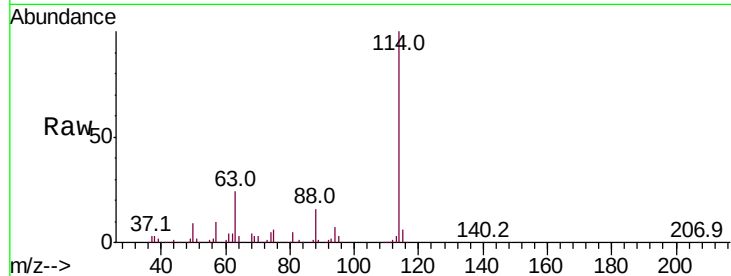




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	48.6
88	16.1	0.0	32.2

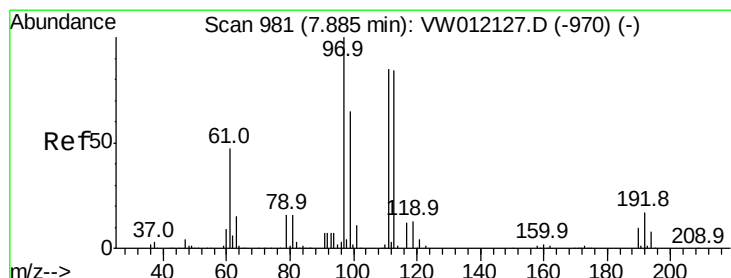
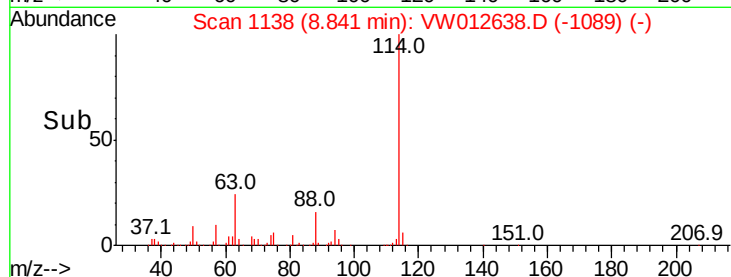
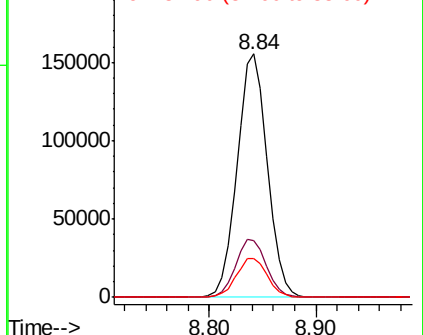


Abundance

Ion 113.90 (113.60 to 114.60): V

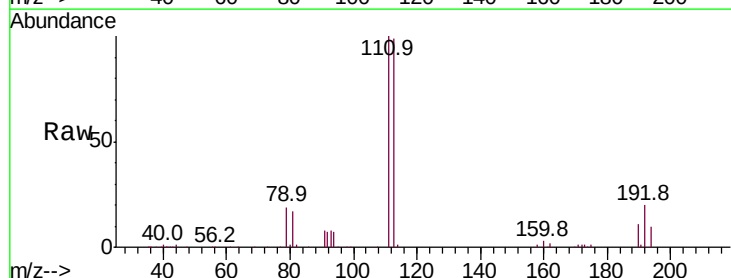
Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35
 Dibromofluoromethane
 Concen: 54.219 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.7	124.1
192	21.6	16.2	24.2

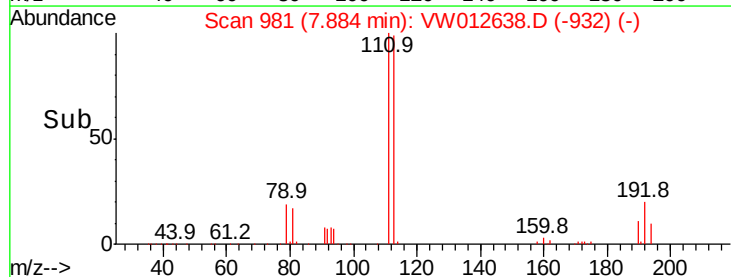
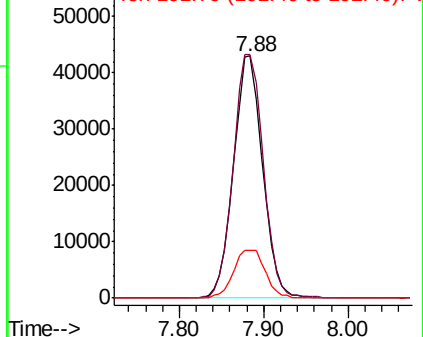


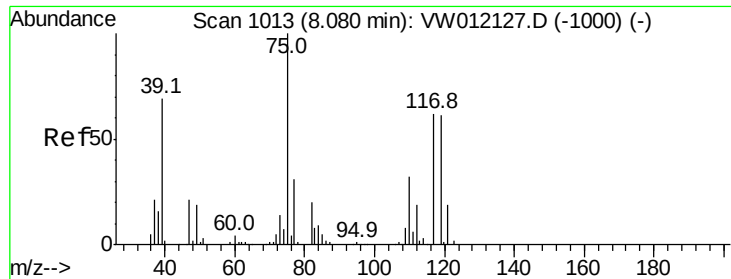
Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.851 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

Instrument :

MSVOA_W

ClientSampled :

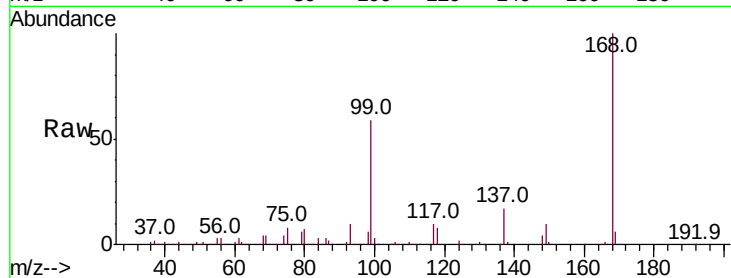
Tot Ion: 75 Resp: 15492

Ion Ratio Lower Upper

75 100

110 9.8 15.6 46.8#

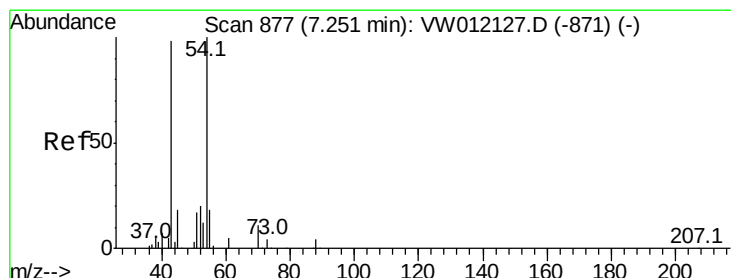
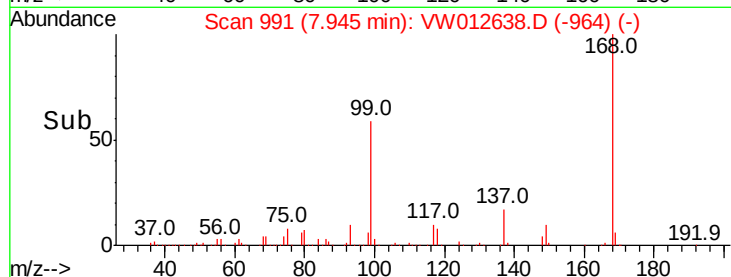
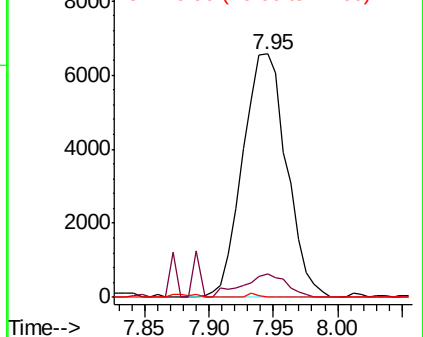
77 0.4 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 9.873 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

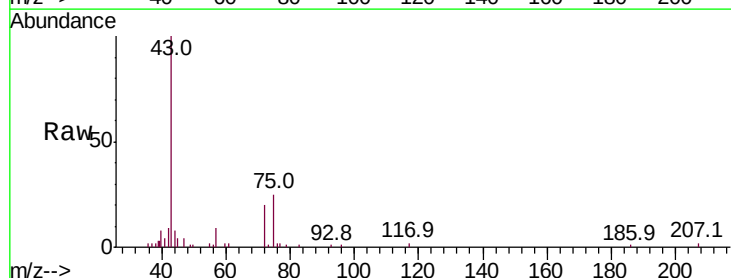
Tgt Ion: 43 Resp: 17277

Ion Ratio Lower Upper

43 100

61 0.1 9.2 13.8#

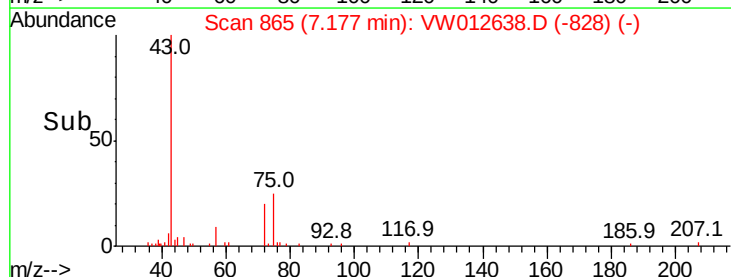
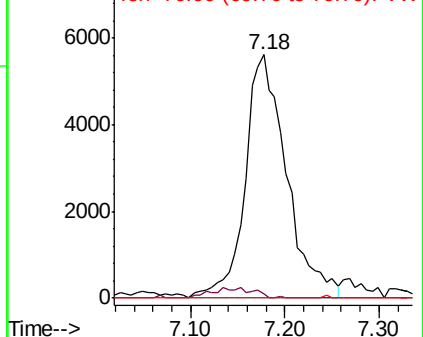
70 0.0 6.9 10.3#

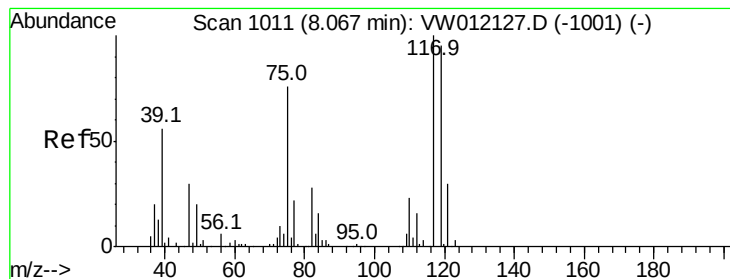


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.803 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

Instrument :

MSVOA_W

ClientSampled :

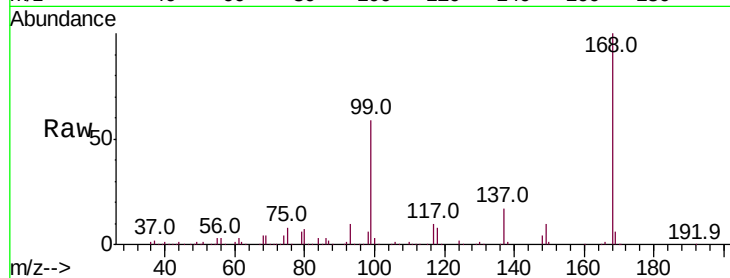
Tot Ion:117 Resp: 18802

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

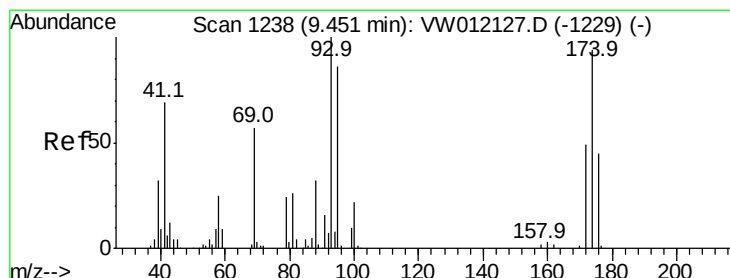
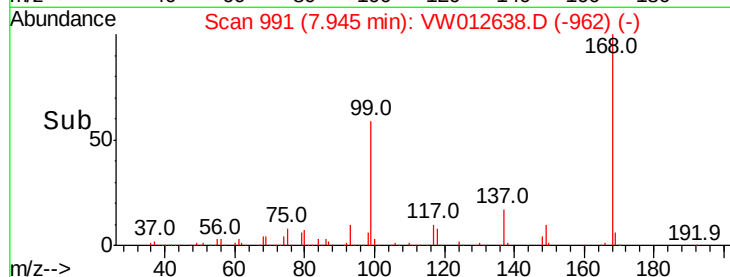
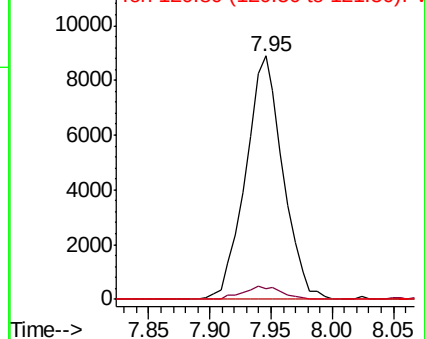
121 0.0 23.8 35.8#



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



#49

1,4-Dioxane

Concen: 1.189 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

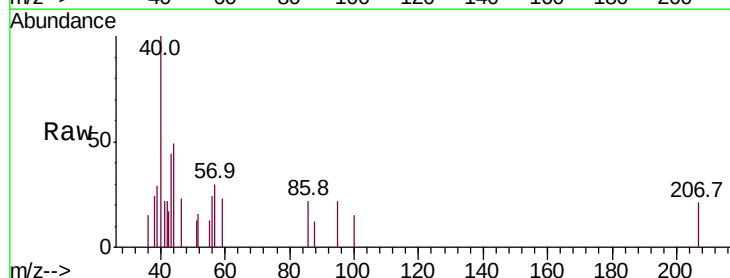
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 32.9 49.3#

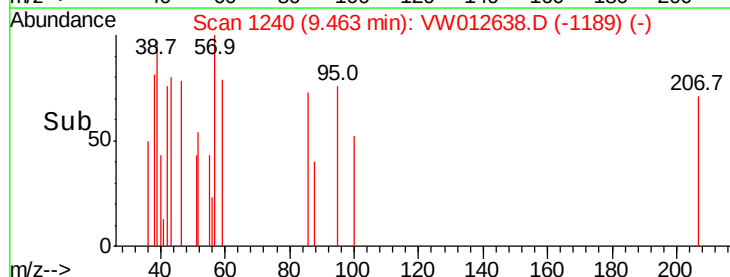
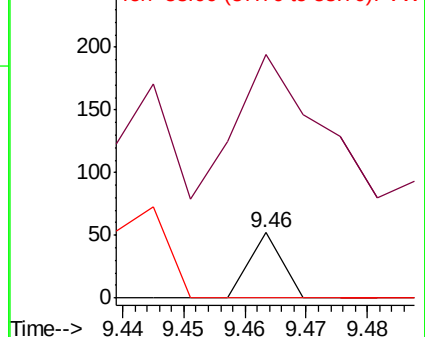
58 0.0 71.0 106.4#

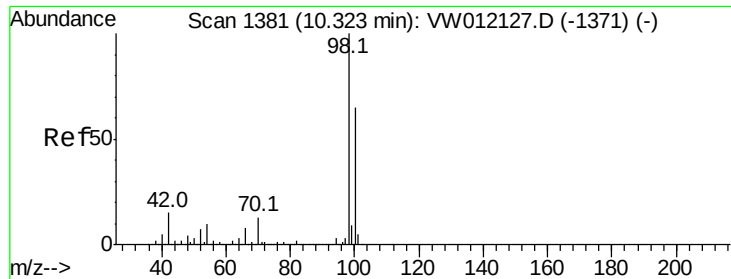


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 44.000 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

Instrument :

MSVOA_W

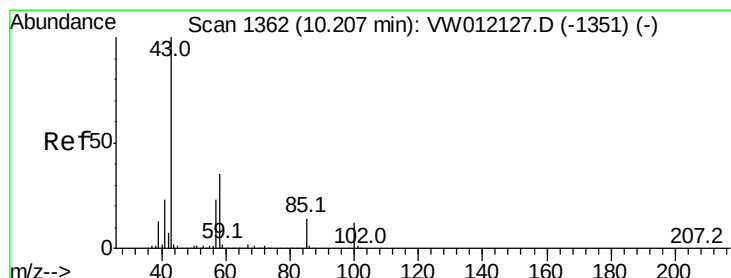
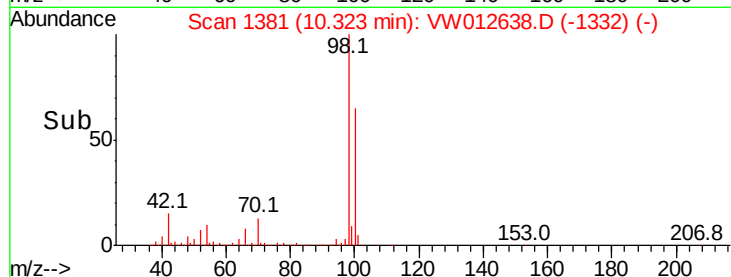
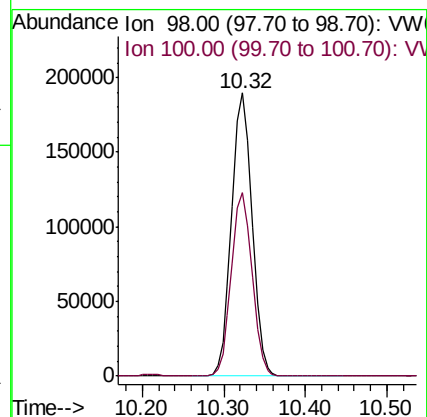
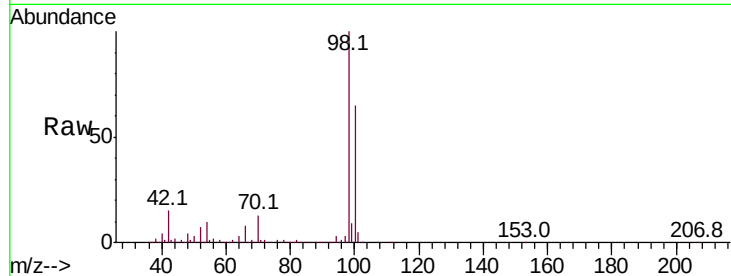
ClientSampleId :

Tot Ion: 98 Resp: 329081

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 11.047 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW012638.D

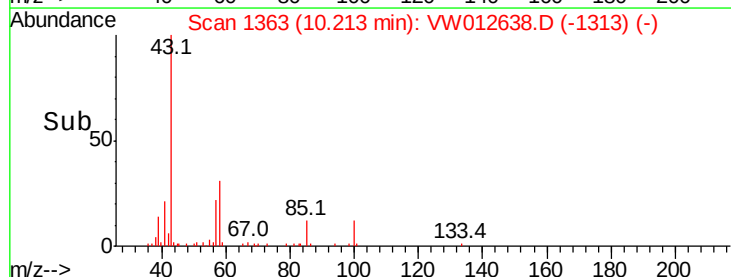
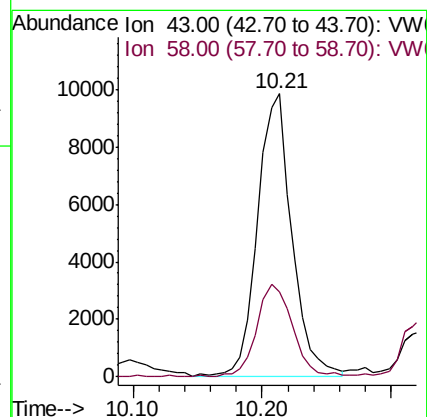
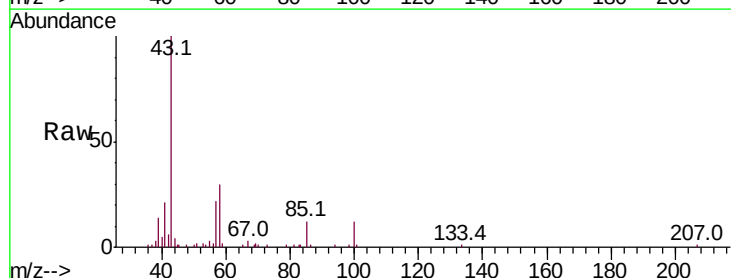
Acq: 05 Sep 2019 14:11

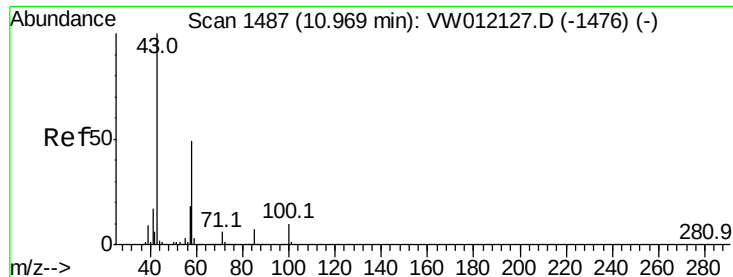
Tgt Ion: 43 Resp: 18213

Ion Ratio Lower Upper

43 100

58 34.3 28.2 42.2

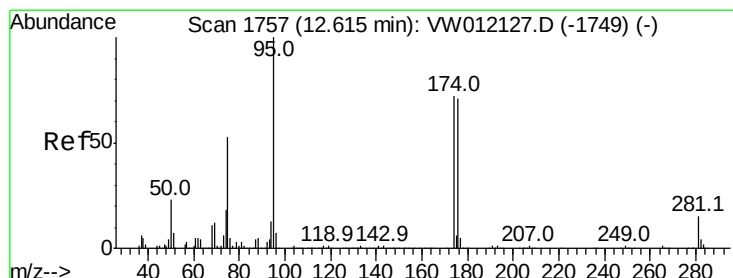
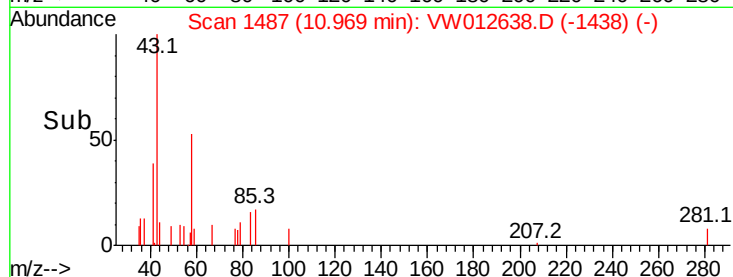
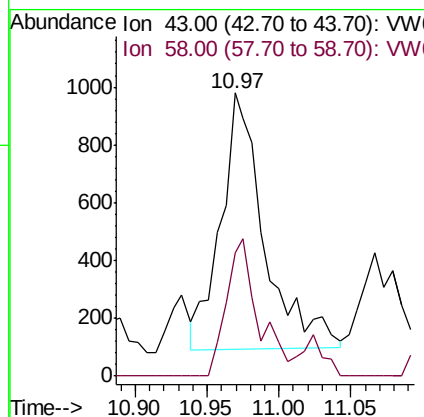
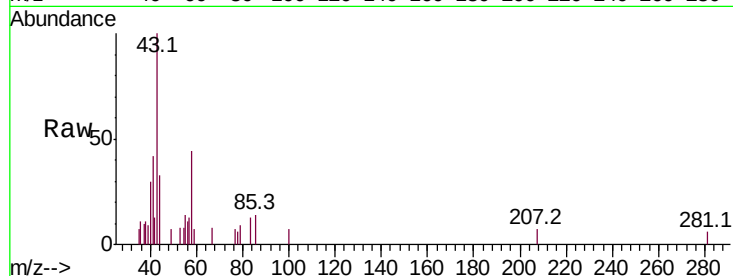




#59
2-Hexanone
Concen: 1.600 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

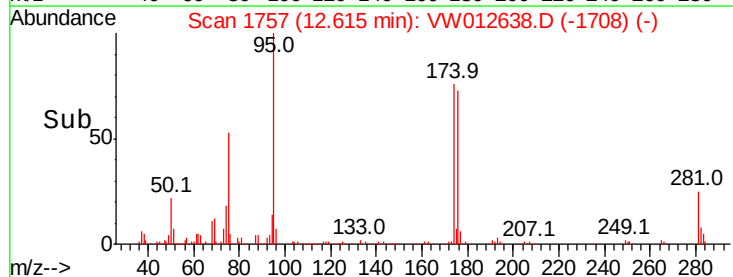
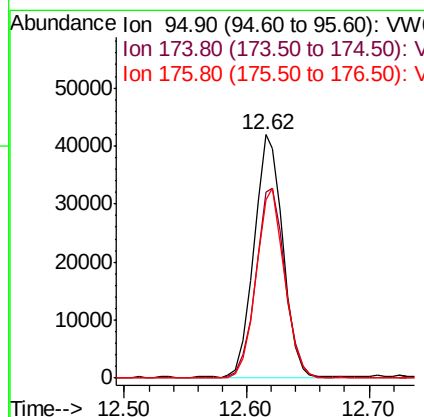
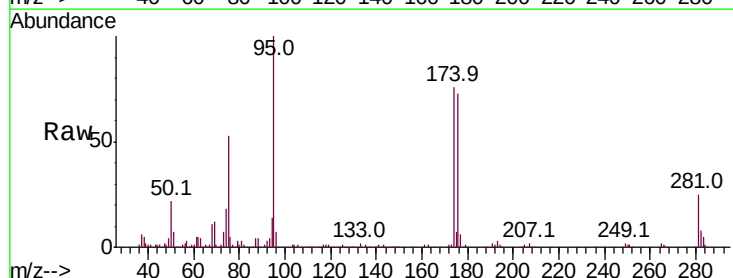
Instrument :
MSVOA_W
ClientSampled :

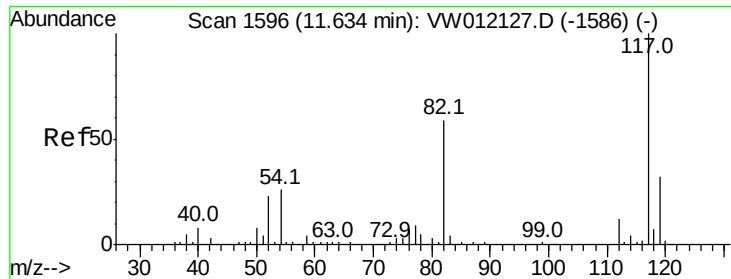
Tot Ion: 43 Resp: 1866
Ion Ratio Lower Upper
43 100
58 39.8 24.3 72.9



#62
4-Bromofluorobenzene
Concen: 25.994 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

Tgt Ion: 95 Resp: 68530
Ion Ratio Lower Upper
95 100
174 79.7 0.0 150.8
176 77.1 0.0 148.6

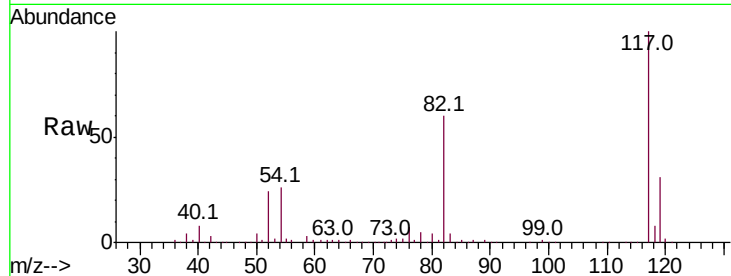




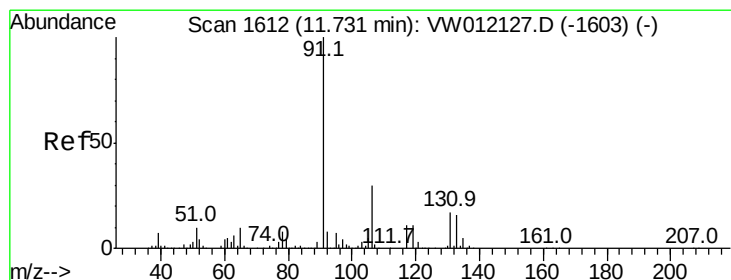
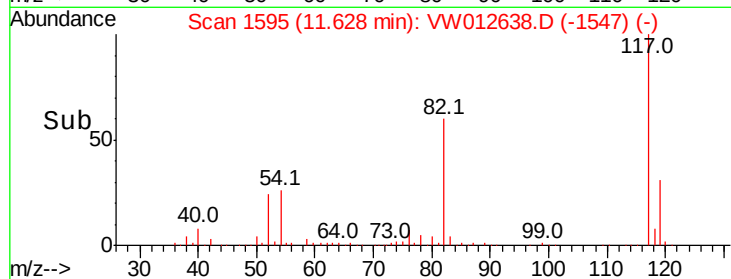
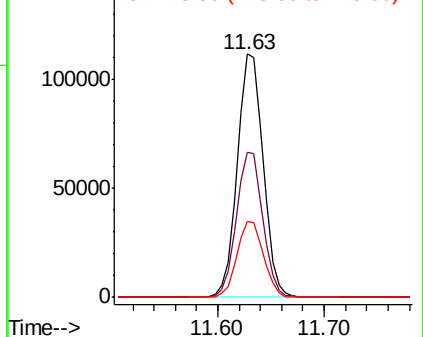
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.4	71.2
119	31.4	25.4	38.2

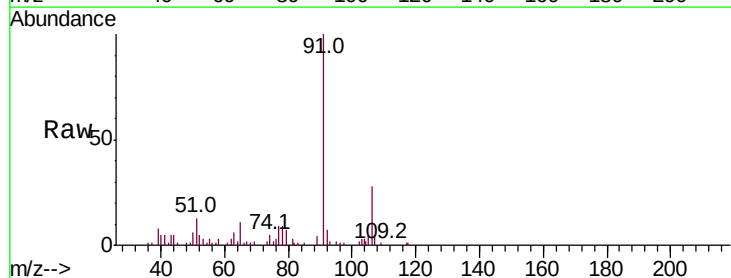


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

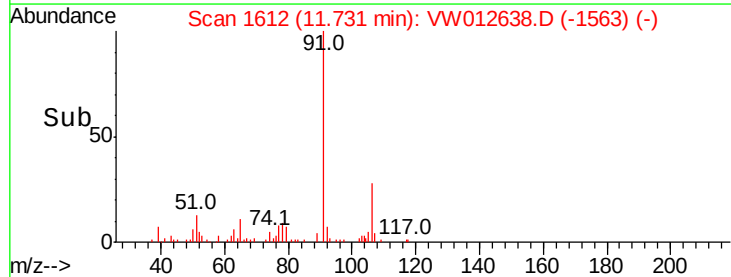
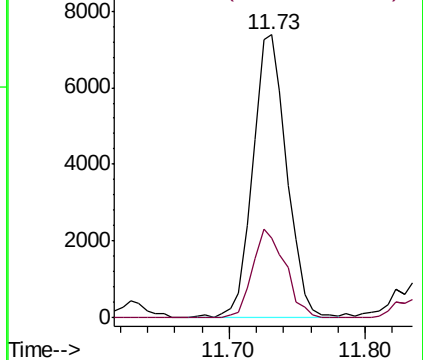


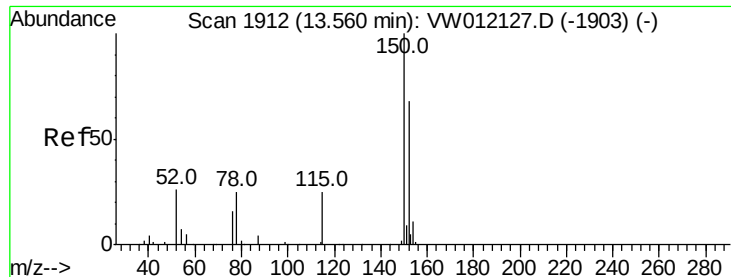
#67
Ethyl Benzene
Concen: 1.777 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012638.D
Acq: 05 Sep 2019 14:11

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.3	24.3	36.5



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 106.00 (105.70 to 106.70): V

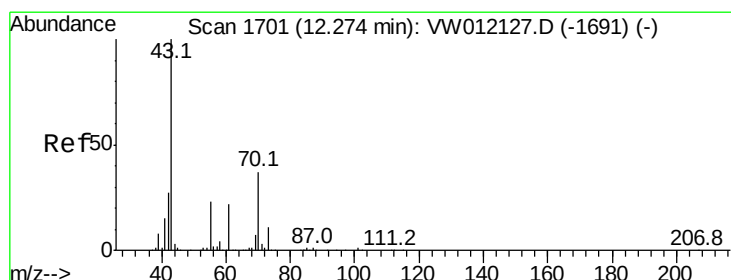
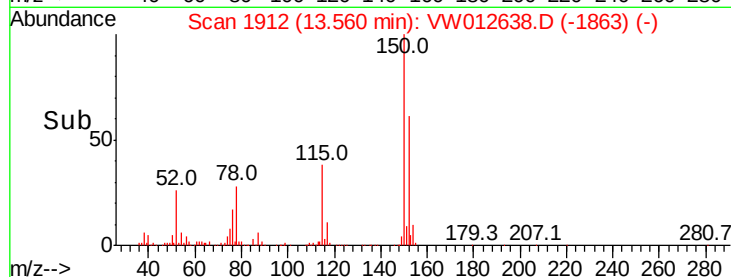
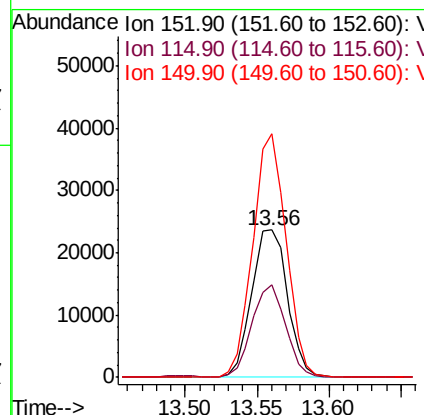
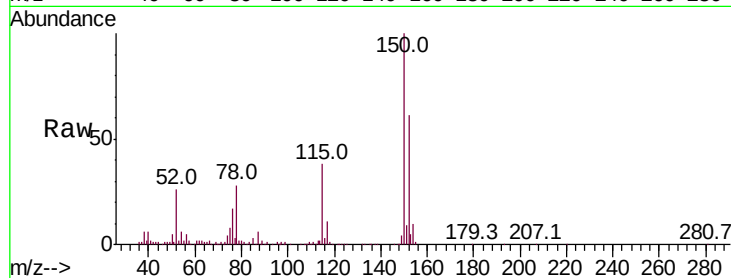




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

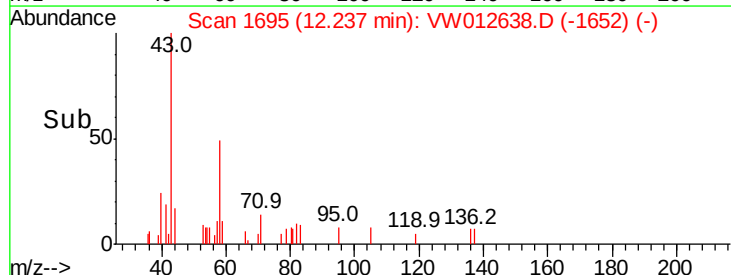
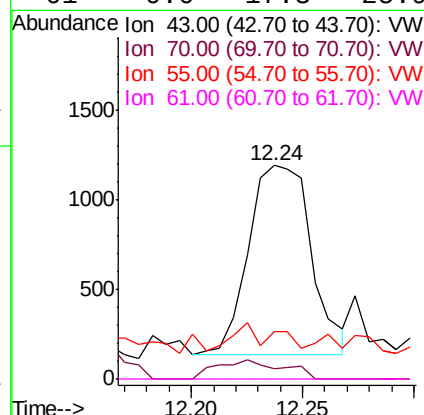
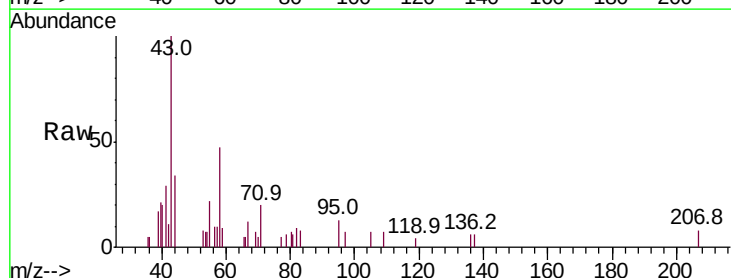
Instrument :
 MSVOA_W
 ClientSampled :

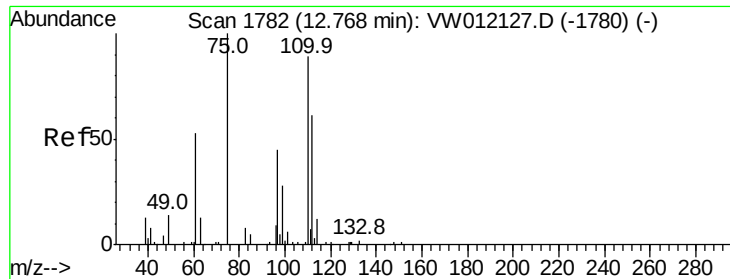
Tot Ion:152 Resp: 40760
 Ion Ratio Lower Upper
 152 100
 115 58.9 30.1 90.3
 150 152.9 0.0 345.8



#74
 N-ethyl acetate
 Concen: 2.224 ug/l
 RT: 12.24 min Scan# 1695
 Delta R.T. -0.04 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

Tgt Ion: 43 Resp: 2052
 Ion Ratio Lower Upper
 43 100
 70 10.9 28.6 43.0#
 55 6.0 17.8 26.6#
 61 0.0 17.3 25.9#





#76

1,2,3-Trichloropropane

Concen: 94.042 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

Instrument :

MSVOA_W

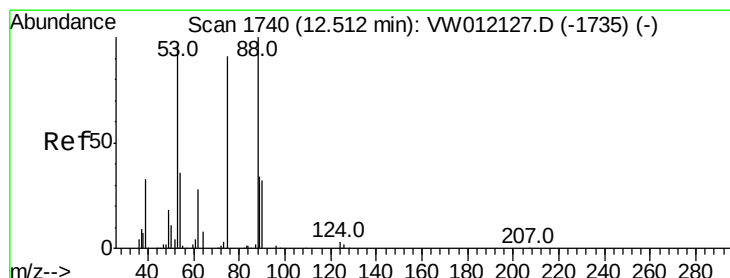
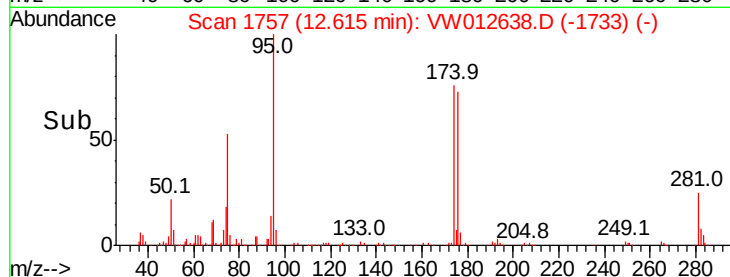
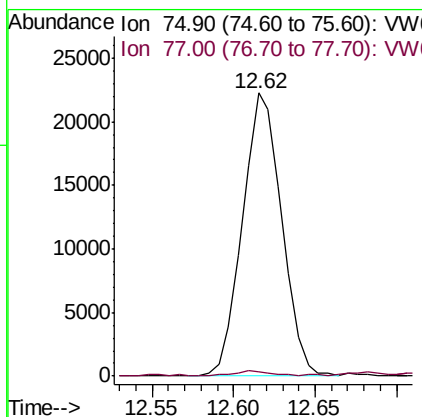
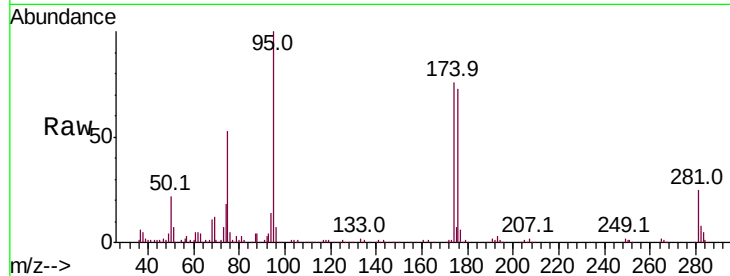
ClientSampled :

Tot Ion: 75 Resp: 37332

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 206.190 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

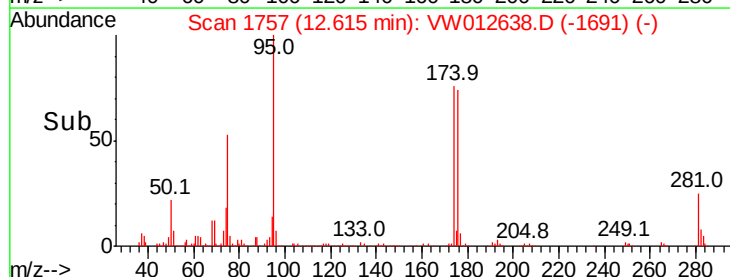
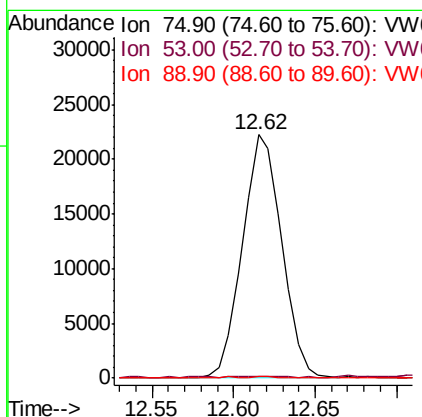
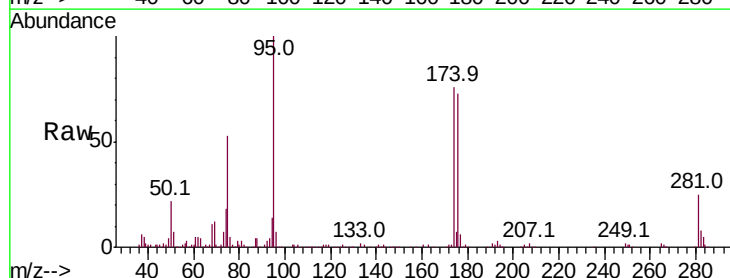
Tgt Ion: 75 Resp: 37332

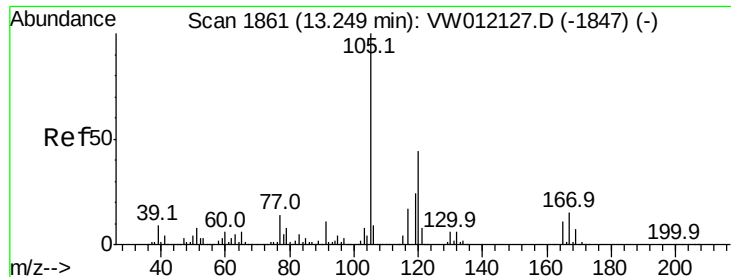
Ion Ratio Lower Upper

75 100

53 1.3 89.4 134.0#

89 0.3 34.5 51.7#

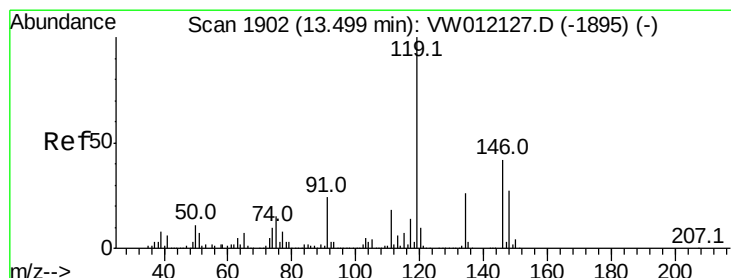
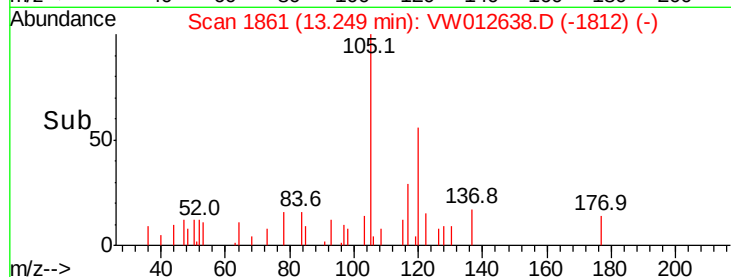
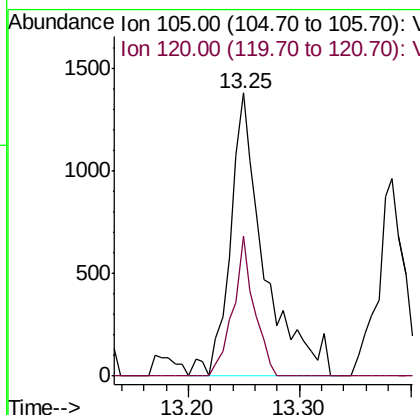
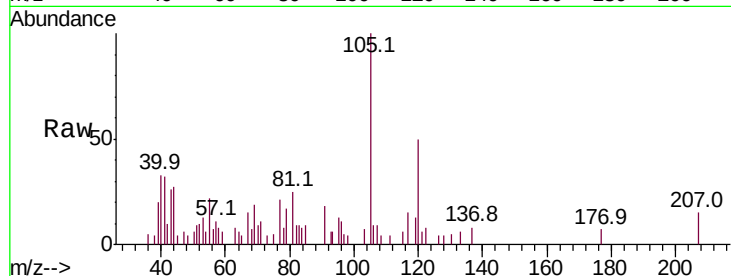




#84
 1,2,4-Trimethylbenzene
 Concen: 1.137 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

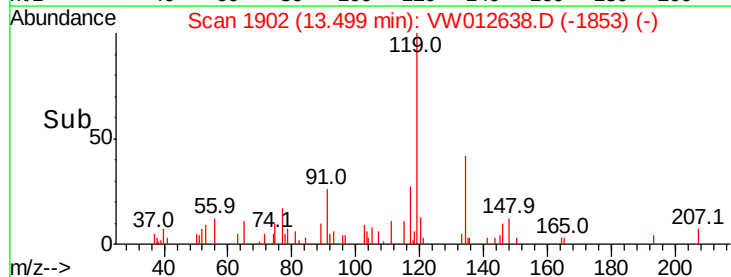
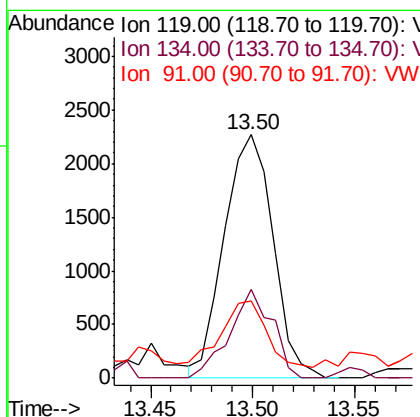
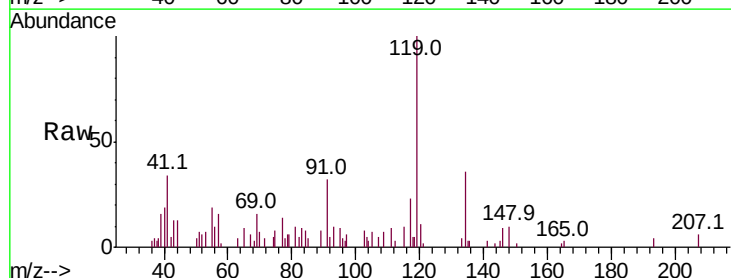
Instrument :
 MSVOA_W
 ClientSampleId :

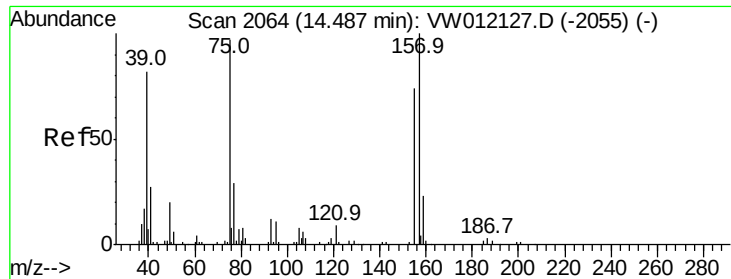
Tot Ion:105 Resp: 2916
 Ion Ratio Lower Upper
 105 100
 120 30.7 21.9 65.7



#86
 p-Isopropyltoluene
 Concen: 1.366 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

Tgt Ion:119 Resp: 3779
 Ion Ratio Lower Upper
 119 100
 134 31.4 12.8 38.3
 91 25.5 12.3 36.9

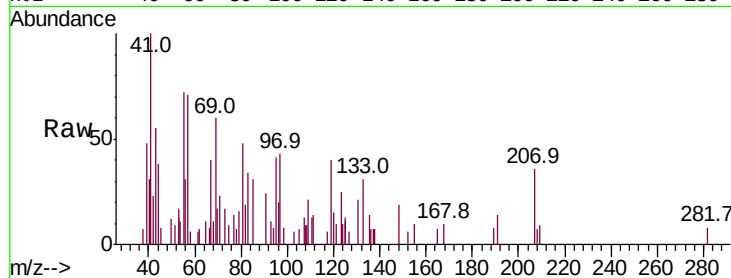




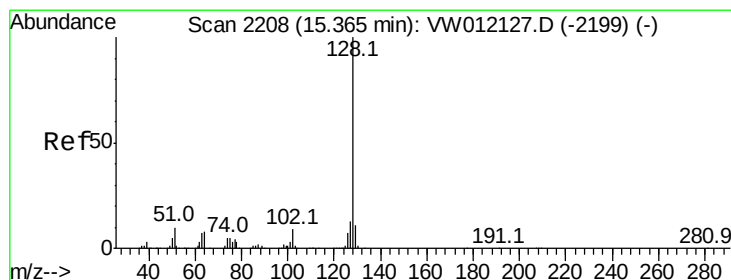
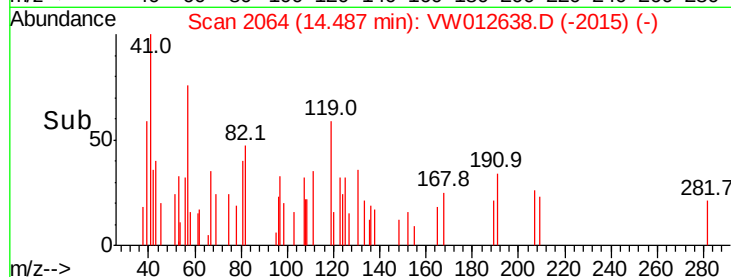
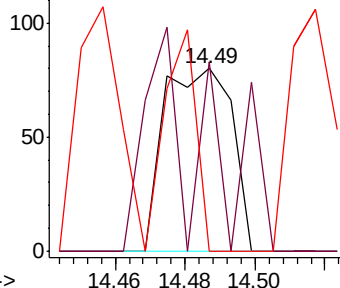
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.144 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 75 Resp: 108
 Ion Ratio Lower Upper
 75 100
 155 55.6 37.5 112.3
 157 56.5 50.5 151.5

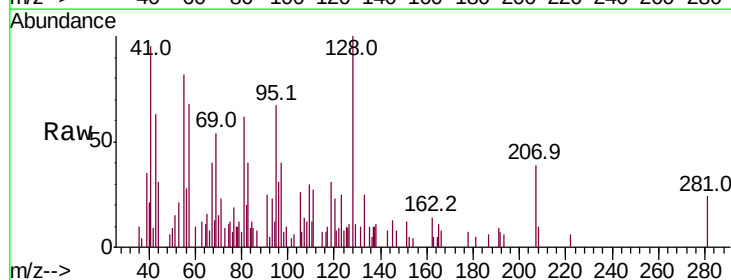


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

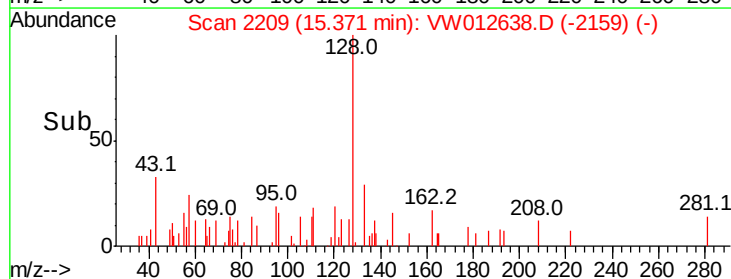
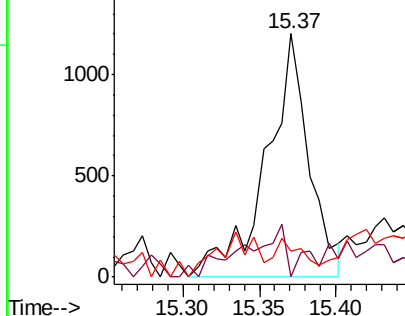


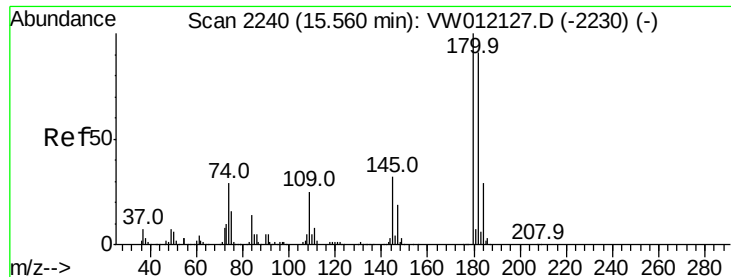
#95
 Naphthalene
 Concen: 5.707 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW012638.D
 Acq: 05 Sep 2019 14:11

Tgt Ion: 128 Resp: 2332
 Ion Ratio Lower Upper
 128 100
 127 5.0 10.7 16.1#
 129 4.8 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





#96

1,2,3-Trichlorobenzene

Concen: 2.469 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW012638.D

Acq: 05 Sep 2019 14:11

Instrument :

MSVOA_W

ClientSampleId :

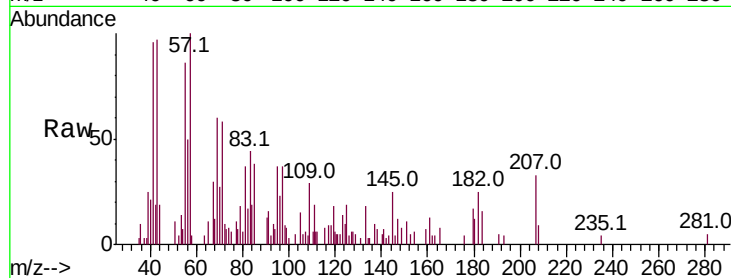
Tot Ion:180 Resp: 1688

Ion Ratio Lower Upper

180 100

182 60.0 47.1 141.3

145 57.7 16.2 48.5#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

