

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090319\
 Data File : VW012555.D
 Acq On : 03 Sep 2019 18:56
 Operator : SY/VA
 Sample : K4550-02RE
 Misc : 4.58G/5ML/MSVOA W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 03 19:18:24 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	219379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	347076	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	223045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	47820	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	144373	55.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.72%	
35) Dibromofluoromethane	7.88	113	110090	53.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.28%	
50) Toluene-d8	10.32	98	400344	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	
62) 4-Bromofluorobenzene	12.62	95	77949	26.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.64%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.68	74	2671	2.188	ug/l	72
11) Tert butyl alcohol	5.22	59	945	6.021	ug/l #	86
16) Acetone	4.14	43	135885	203.839	ug/l	98
17) Carbon Disulfide	4.37	76	7300	1.098	ug/l	99
18) Methyl Acetate	4.68	43	2311	1.400	ug/l	93
20) Methylene Chloride	4.91	84	21374	8.481	ug/l	97
25) 2-Butanone	7.18	43	25082	27.688	ug/l	99
27) cis-1,2-Dichloroethene	7.16	96	4636	1.839	ug/l	92
29) Tetrahydrofuran	7.54	42	5595	10.295	ug/l	97
31) Cyclohexane	7.95	56	6142	1.308	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19407	5.411	ug/l #	52
37) Ethyl Acetate	7.18	43	25082	12.762	ug/l #	66
38) Carbon Tetrachloride	7.95	117	21882	7.049	ug/l #	16
41) Methacrylonitrile	7.54	41	3154	2.730	ug/l #	56
49) 1,4-Dioxane	9.70	88	19	1.058	ug/l #	67
52) Toluene	10.39	92	8519	1.448	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	42307	90.840	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	42307	199.169	ug/l #	6
95) Naphthalene	15.38	128	369	4.508	ug/l #	77

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Instrument :

MSVOA_W

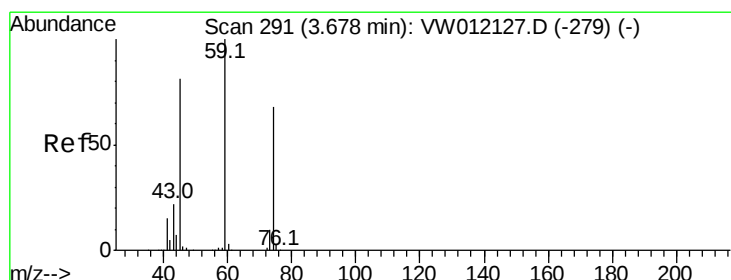
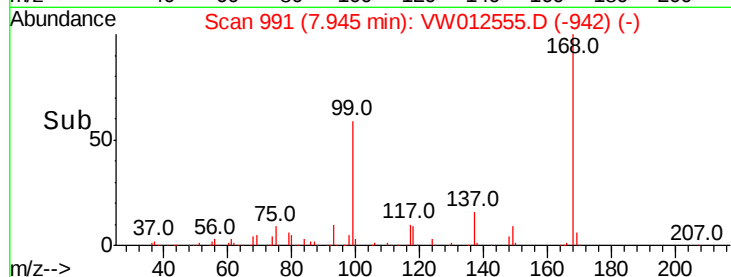
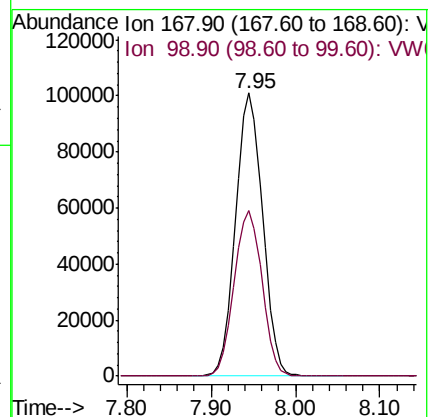
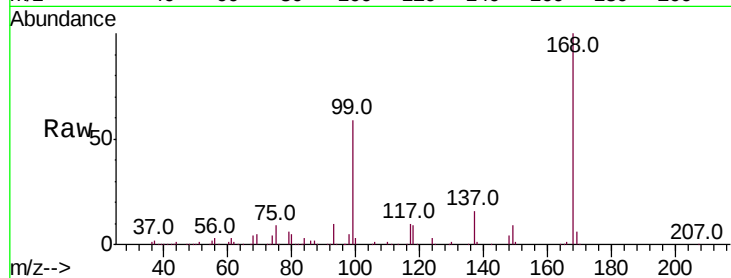
ClientSampled :

Tot Ion:168 Resp: 219379

Ion Ratio Lower Upper

168 100

99 58.6 49.2 73.8



#8

Diethyl Ether

Concen: 2.188 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012555.D

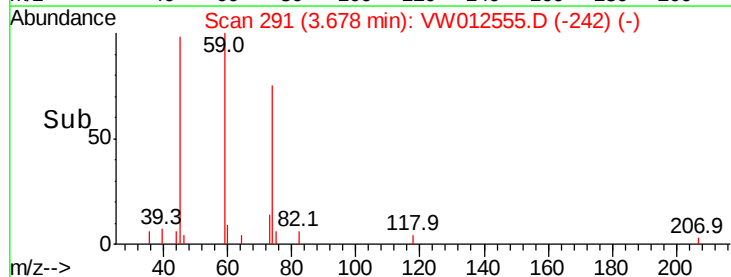
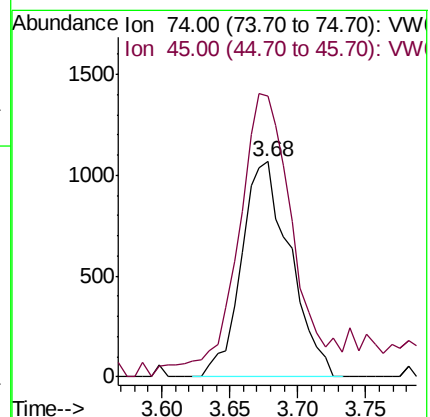
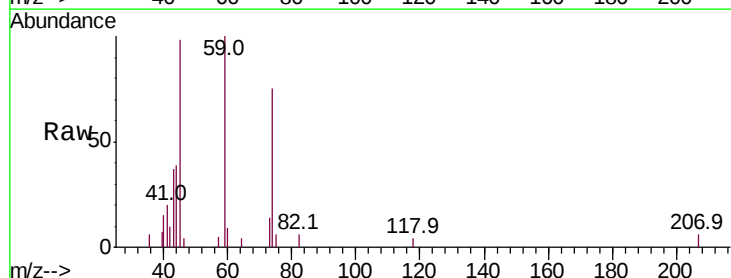
Acq: 03 Sep 2019 18:56

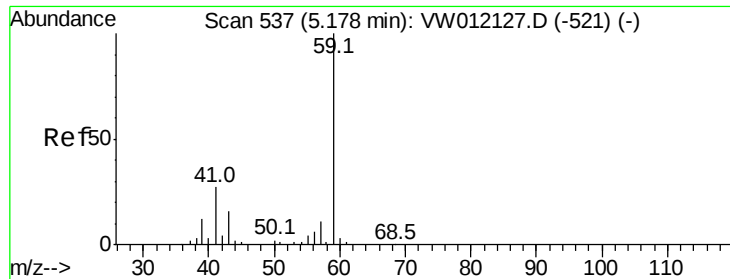
Tgt Ion: 74 Resp: 2671

Ion Ratio Lower Upper

74 100

45 149.8 59.2 177.6

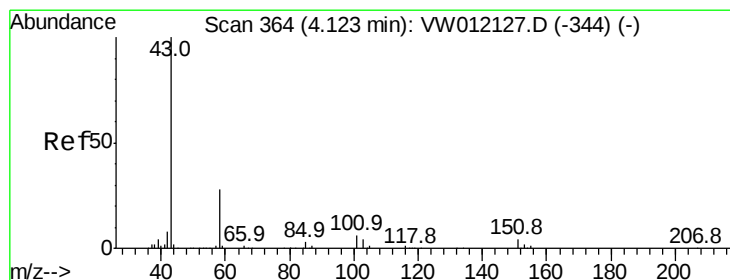
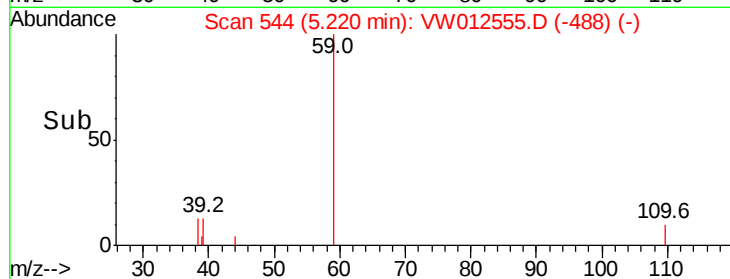
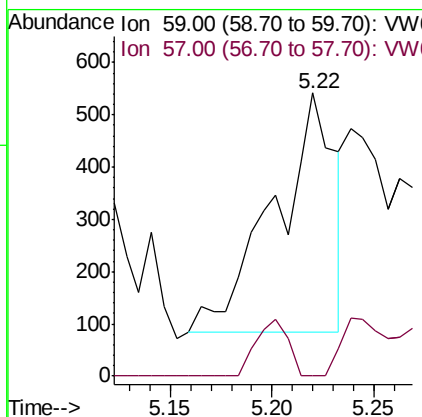
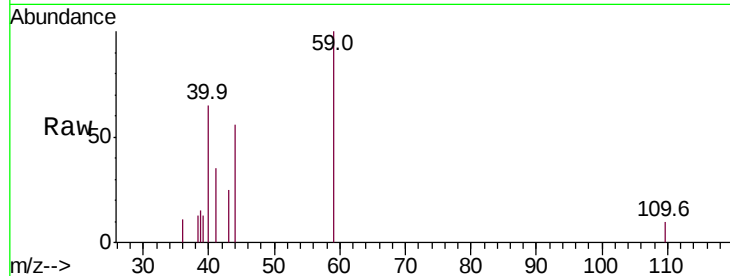




#11
Tert butyl alcohol
Concen: 6.021 ug/l
RT: 5.22 min Scan# 544
Delta R.T. 0.04 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

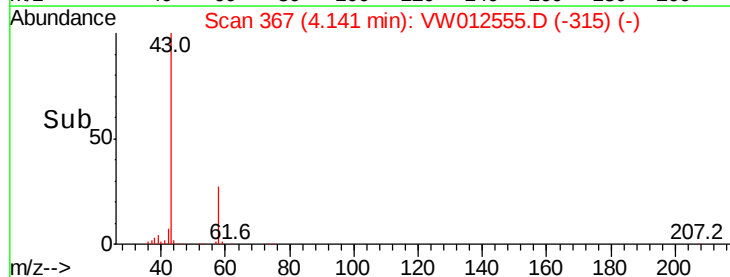
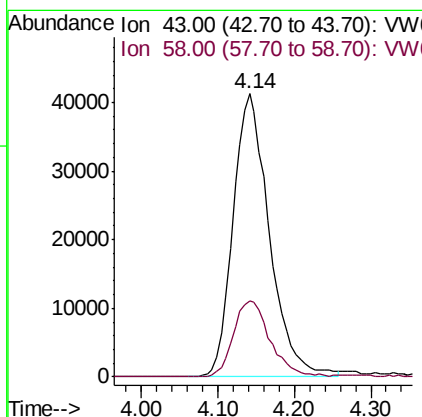
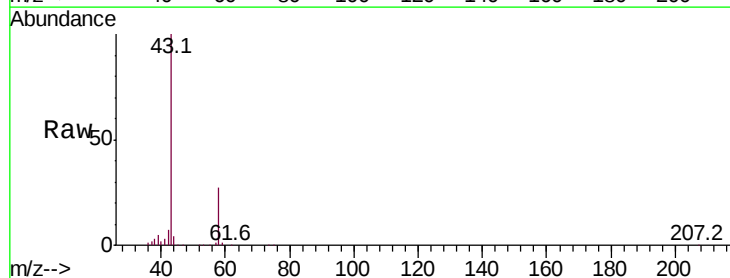
Instrument :
MSVOA_W
ClientSampleId :

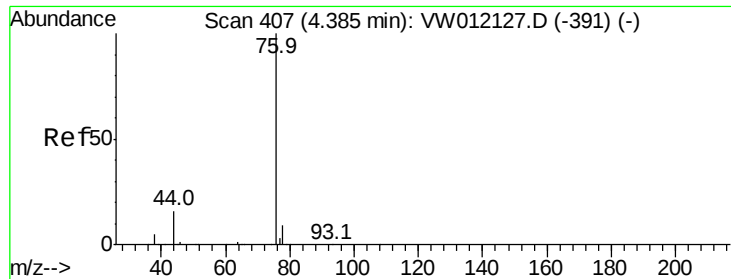
Tot Ion: 59 Resp: 945
Ion Ratio Lower Upper
59 100
57 16.7 9.0 13.4#



#16
Acetone
Concen: 203.839 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.02 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

Tgt Ion: 43 Resp: 135885
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

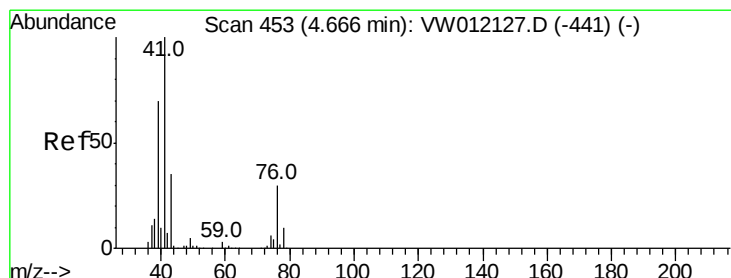
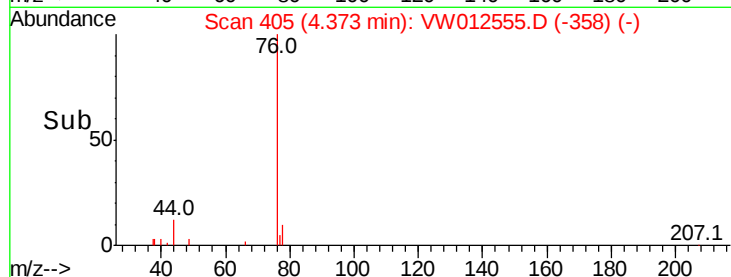
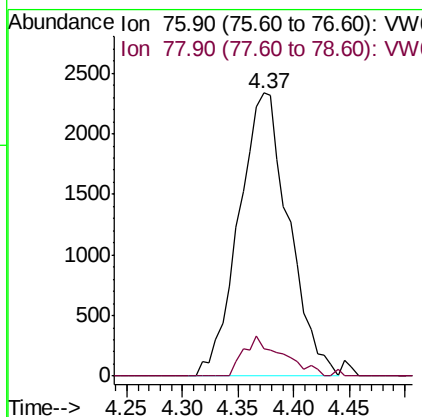
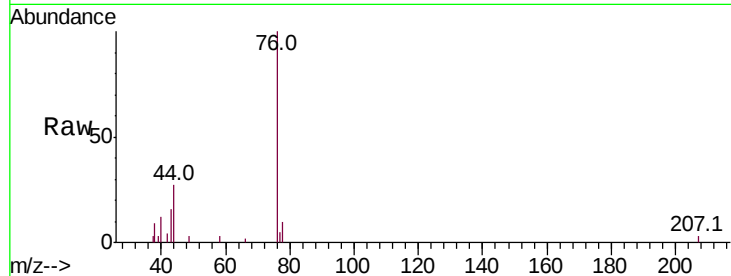




#17
Carbon Disulfide
Concen: 1.098 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

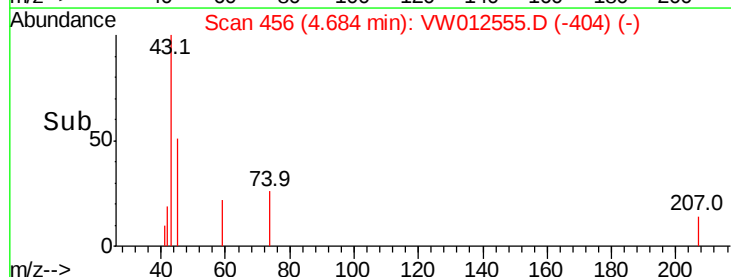
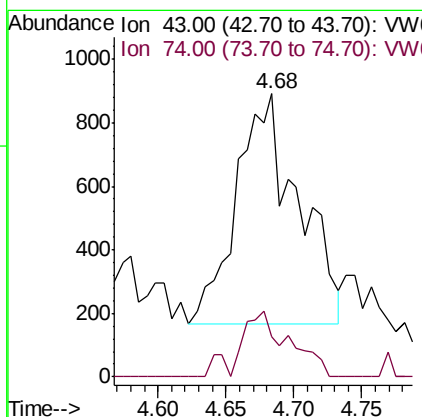
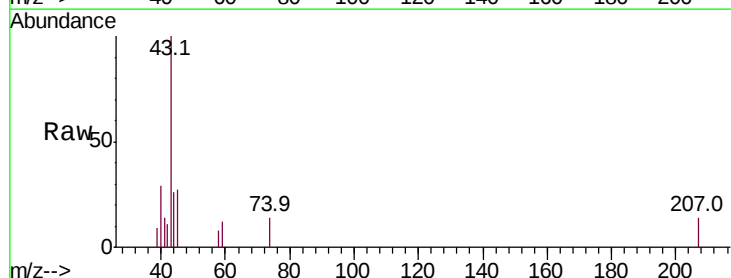
Instrument :
MSVOA_W
ClientSampled :

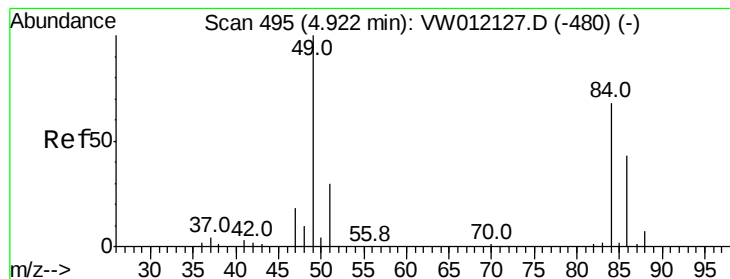
Tot Ion: 76 Resp: 7300
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9



#18
Methyl Acetate
Concen: 1.400 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.02 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

Tgt Ion: 43 Resp: 2311
Ion Ratio Lower Upper
43 100
74 22.7 15.7 23.5





#20

Methvlene Chloride

Concen: 8.481 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 84 Resp: 21374

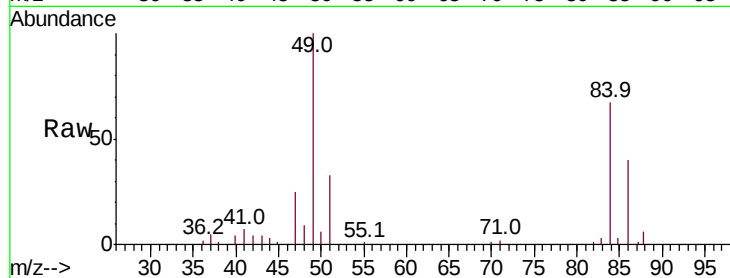
Ion Ratio Lower Upper

84 100

49 147.5 117.8 176.8

51 48.4 35.6 53.4

86 58.5 51.2 76.8

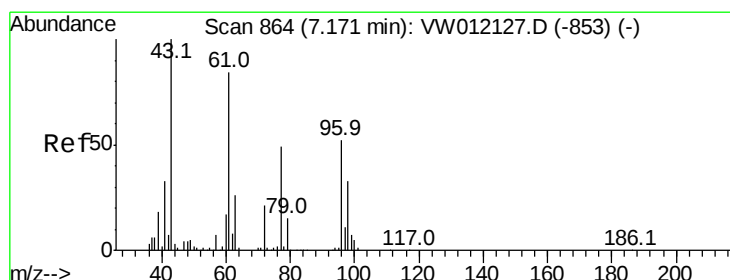
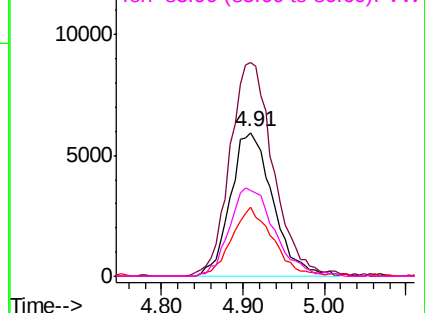
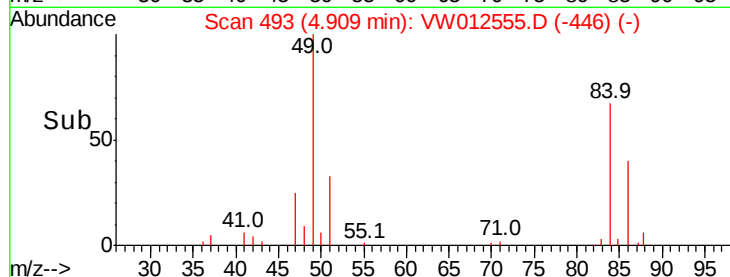


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 27.688 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012555.D

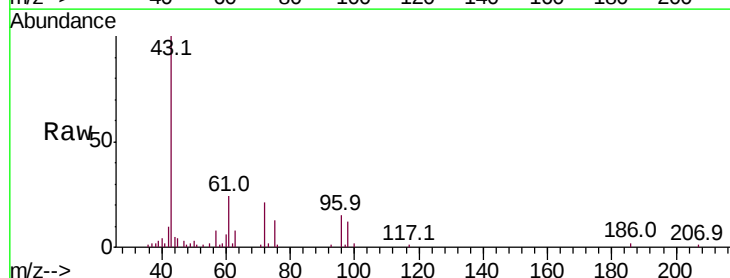
Acq: 03 Sep 2019 18:56

Tgt Ion: 43 Resp: 25082

Ion Ratio Lower Upper

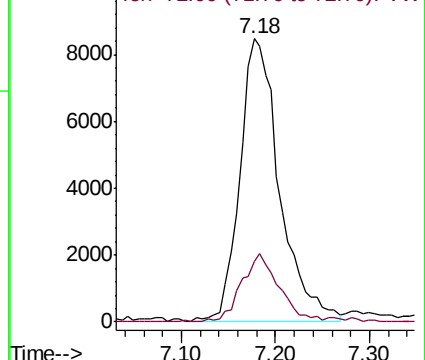
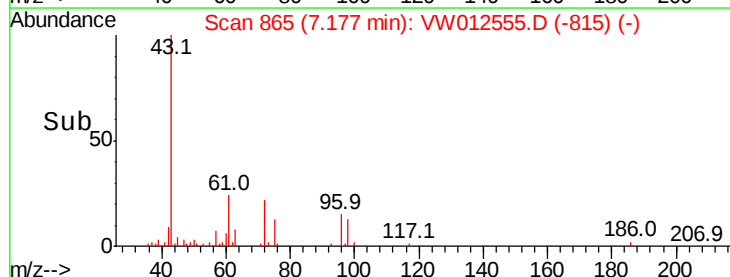
43 100

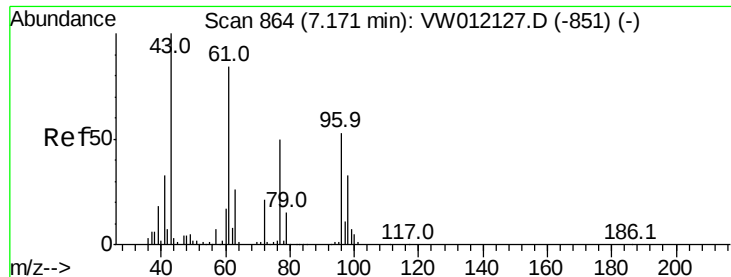
72 21.4 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



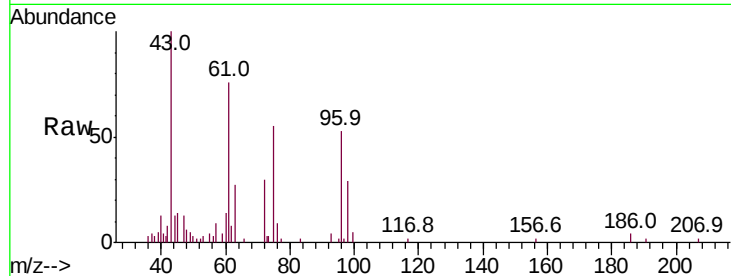


#27

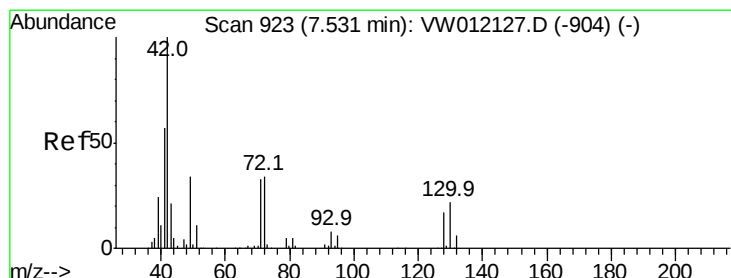
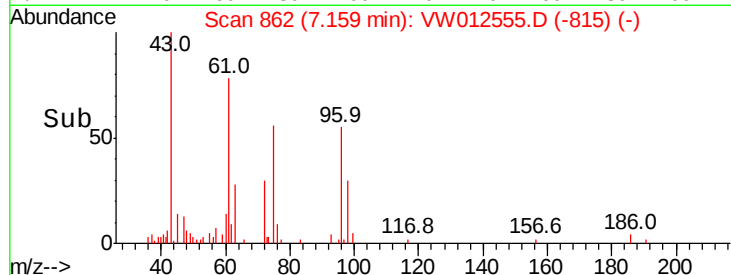
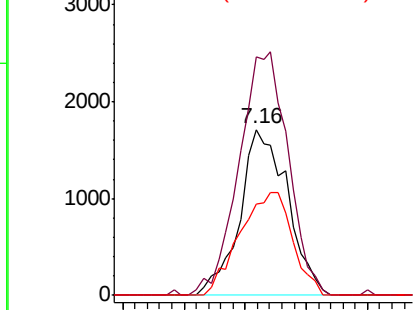
cis-1,2-Dichloroethene
Concen: 1.839 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 96 Resp: 4636
Ion Ratio Lower Upper
96 100
61 151.1 0.0 326.6
98 68.6 0.0 127.4



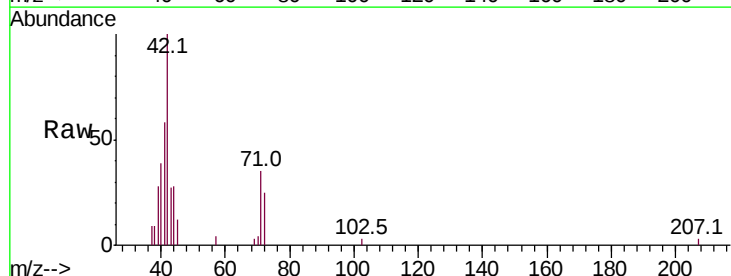
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



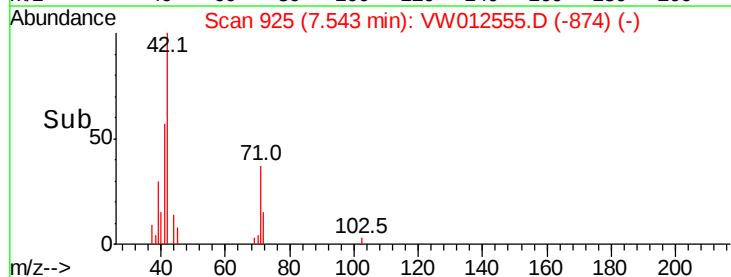
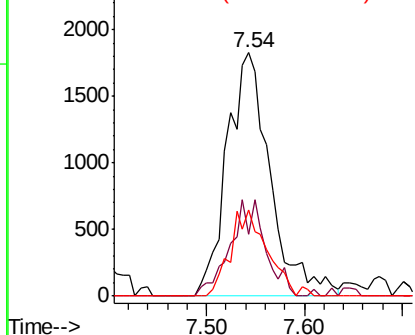
#29

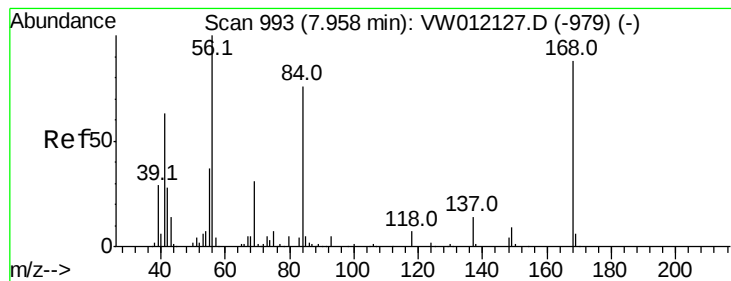
Tetrahydrofuran
Concen: 10.295 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

Tgt Ion: 42 Resp: 5595
Ion Ratio Lower Upper
42 100
72 32.3 27.3 40.9
71 30.0 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.308 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

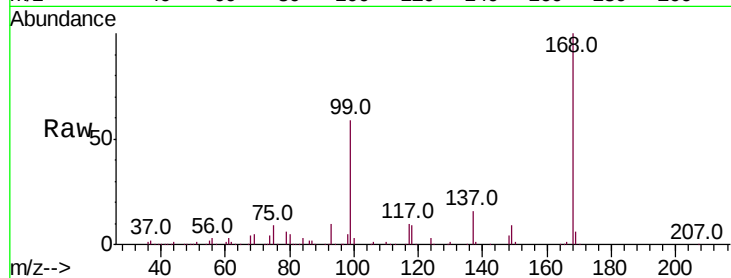
Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

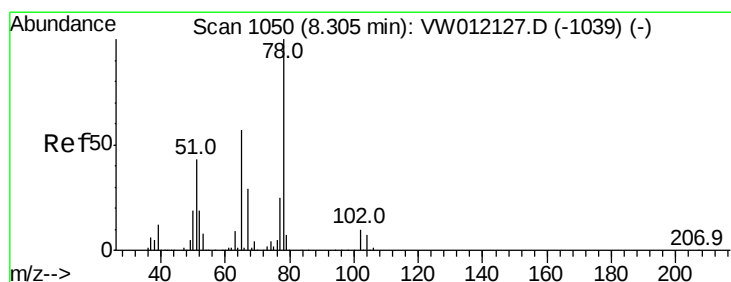
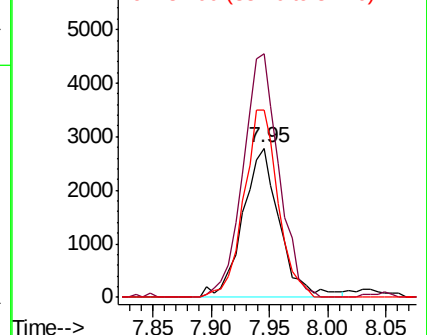
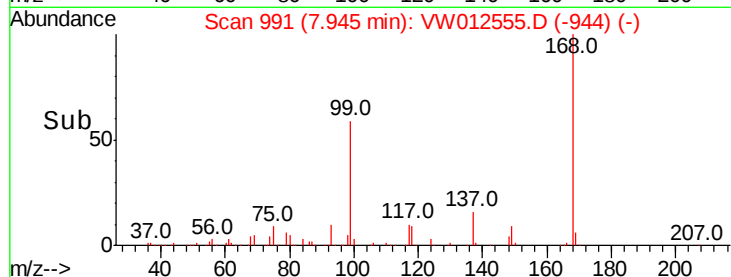
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 6142

Ion	Ratio	Lower	Upper
56	100		
69	163.4	24.9	37.3#
84	126.1	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: 55.360 ug/l

RT: 8.30 min Scan# 1050

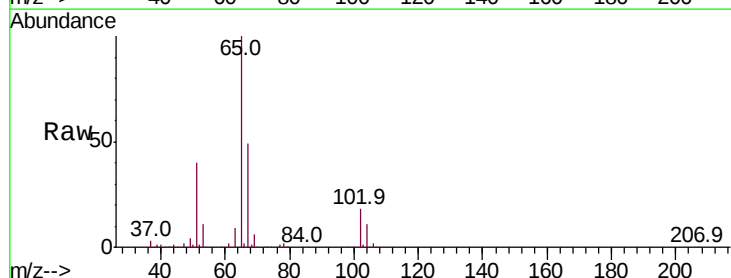
Delta R.T. -0.00 min

Lab File: VW012555.D

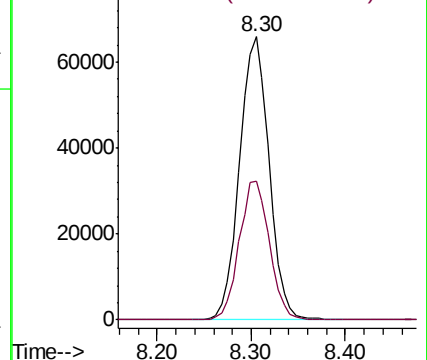
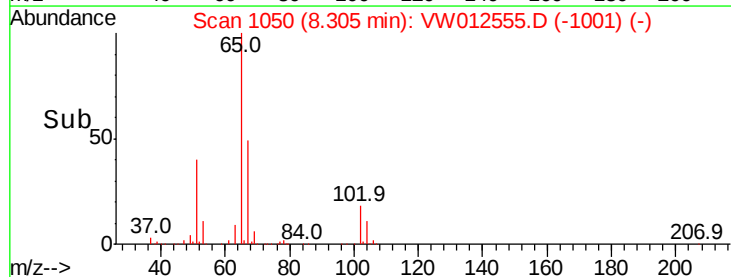
Acq: 03 Sep 2019 18:56

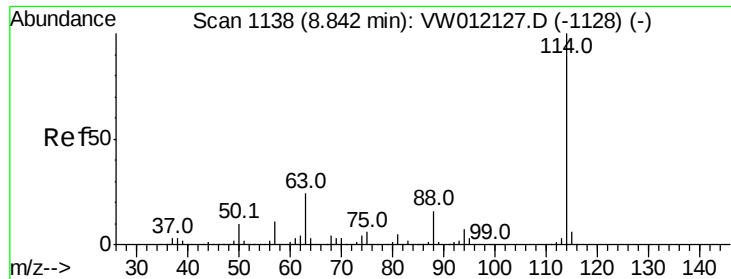
Tgt Ion: 65 Resp: 144373

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	102.6



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

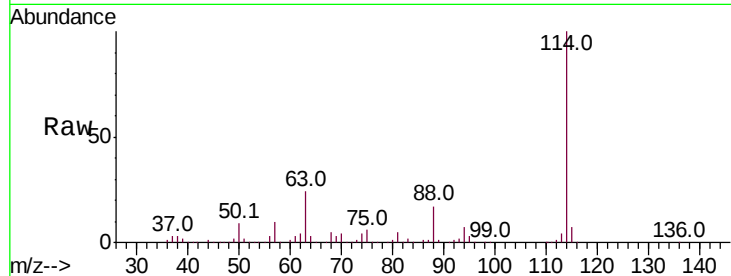




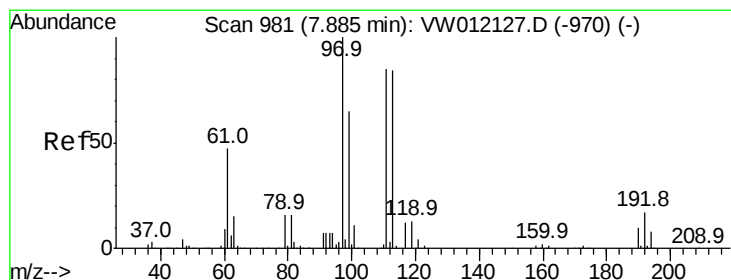
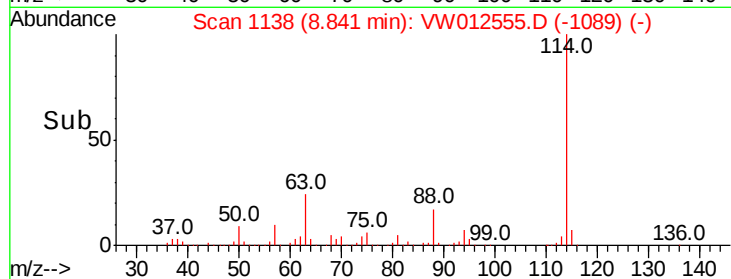
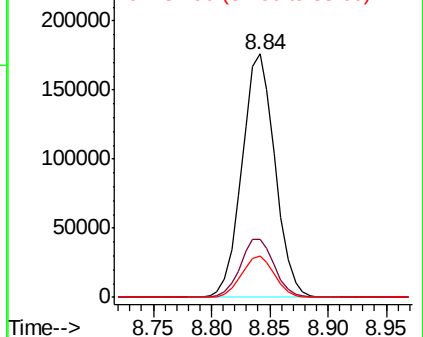
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012555.D
 Acq: 03 Sep 2019 18:56

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 347076
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 48.6
 88 17.0 0.0 32.2

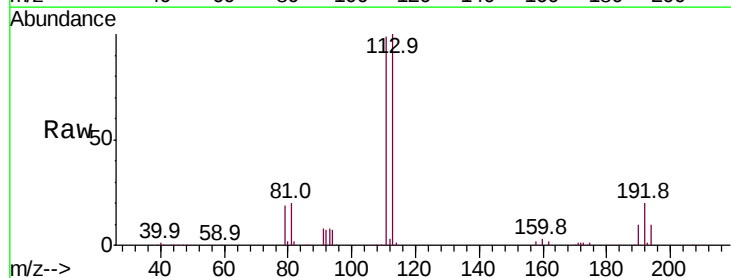


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

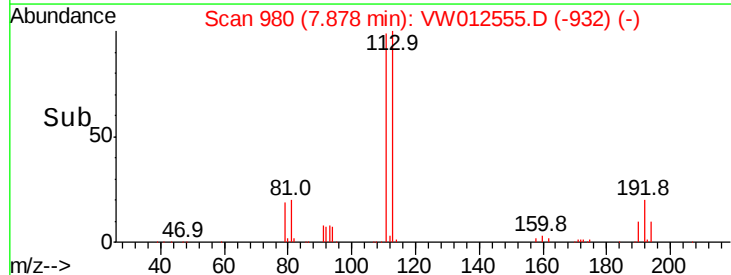
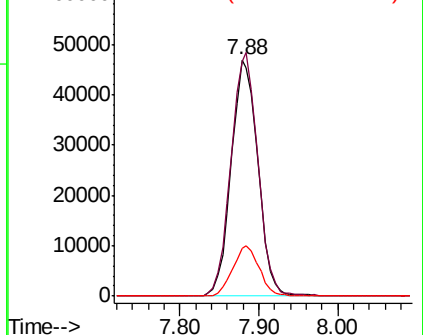


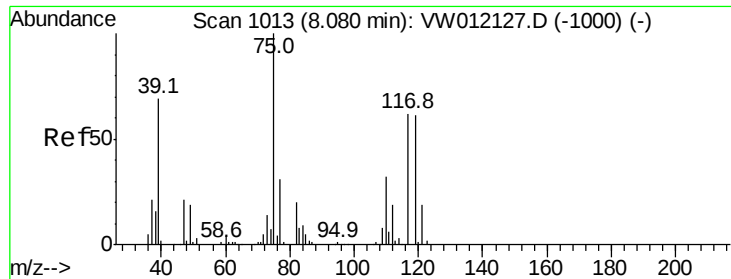
#35
 Dibromofluoromethane
 Concen: 53.140 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012555.D
 Acq: 03 Sep 2019 18:56

Tgt Ion:113 Resp: 110090
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.7 124.1
 192 21.1 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

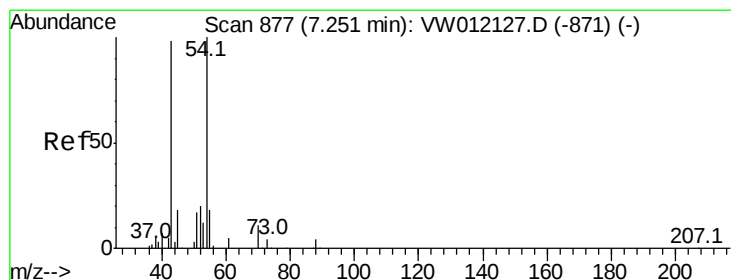
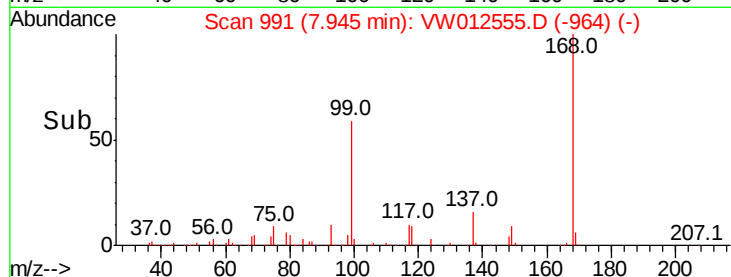
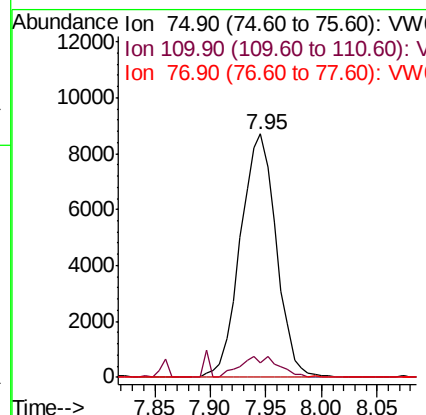
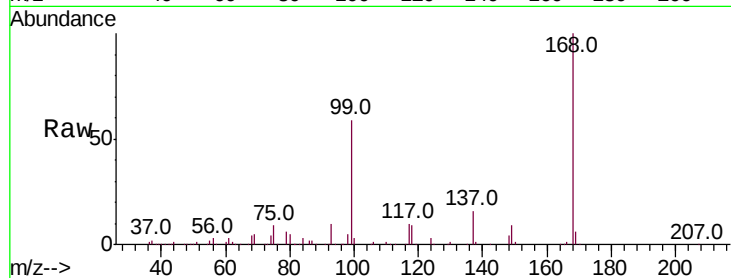




#36
 1,1-Dichloropropene
 Concen: 5.411 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012555.D
 Acq: 03 Sep 2019 18:56

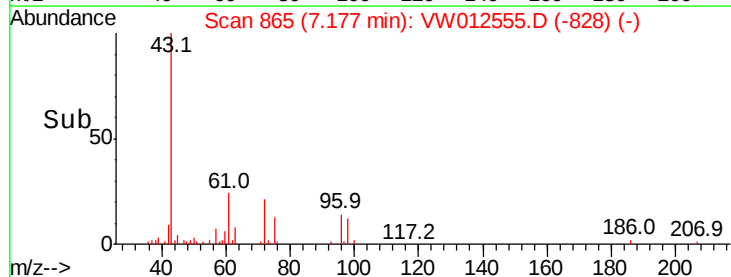
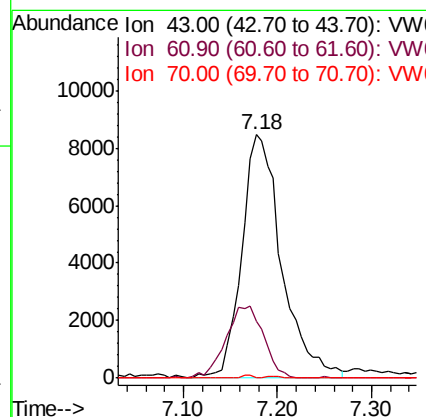
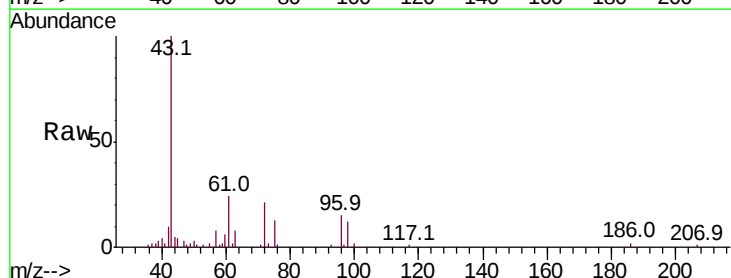
Instrument :
 MSVOA_W
 ClientSampleID :

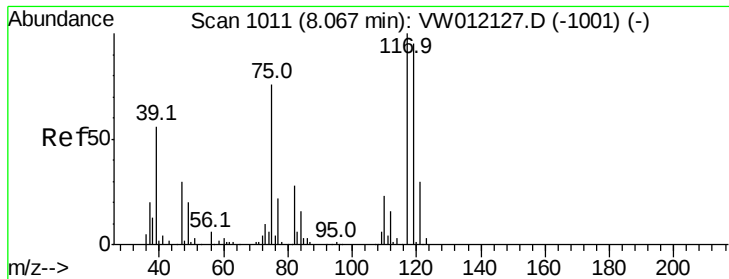
Tot Ion: 75 Resp: 19407
 Ion Ratio Lower Upper
 75 100
 110 9.4 15.6 46.8#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 12.762 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.07 min
 Lab File: VW012555.D
 Acq: 03 Sep 2019 18:56

Tgt Ion: 43 Resp: 25082
 Ion Ratio Lower Upper
 43 100
 61 27.9 9.2 13.8#
 70 0.3 6.9 10.3#





#38

Carbon Tetrachloride

Concen: 7.049 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Instrument :

MSVOA_W

ClientSampled :

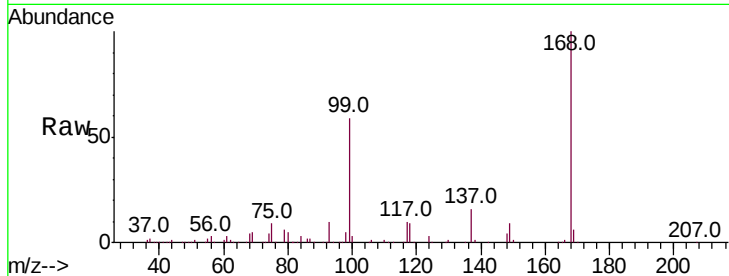
Tot Ion:117 Resp: 21882

Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

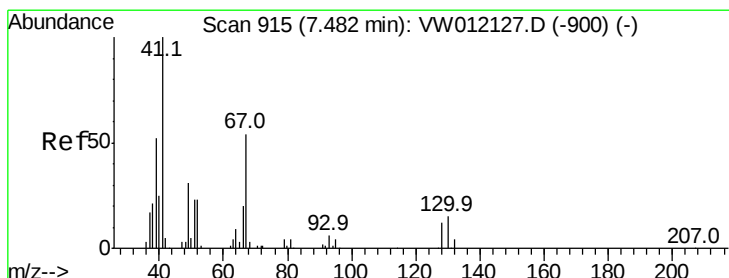
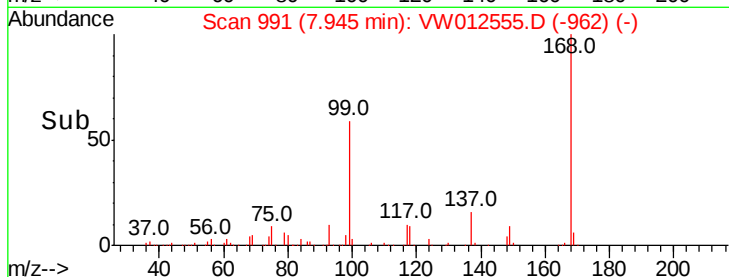
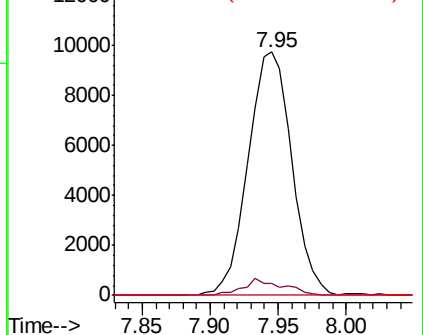
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 2.730 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Tgt Ion: 41 Resp: 3154

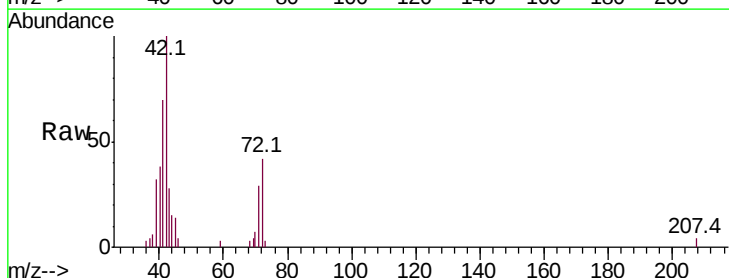
Ion Ratio Lower Upper

41 100

39 61.5 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

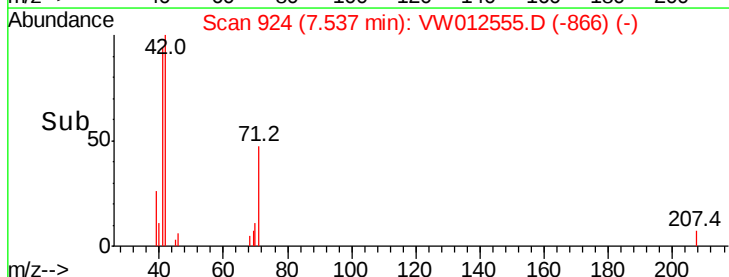
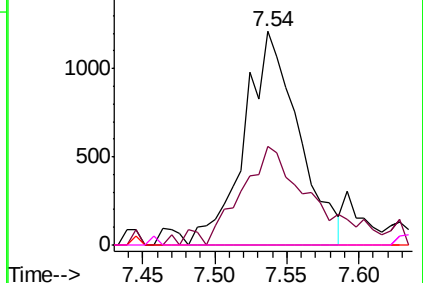


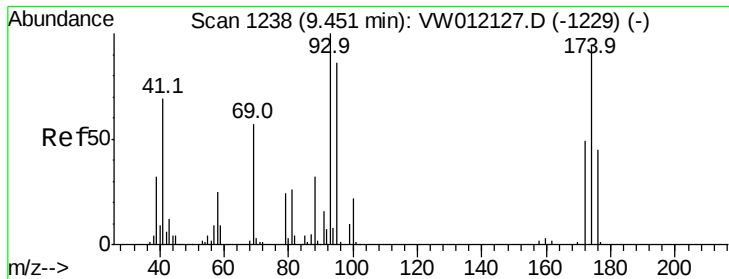
Abundance Ion 41.00 (40.70 to 41.70): VW

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





#49

1,4-Dioxane

Concen: 1.058 ug/l

RT: 9.70 min Scan# 1279

Delta R.T. 0.25 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Instrument :
MSVOA_W
ClientSampled :

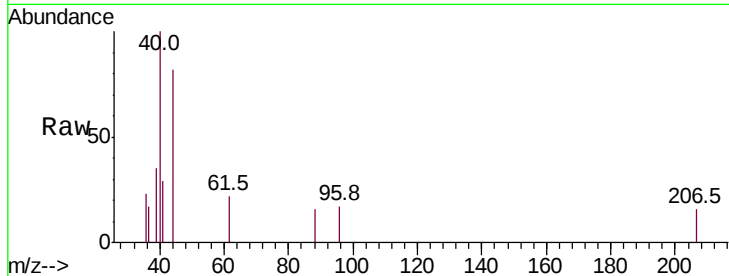
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

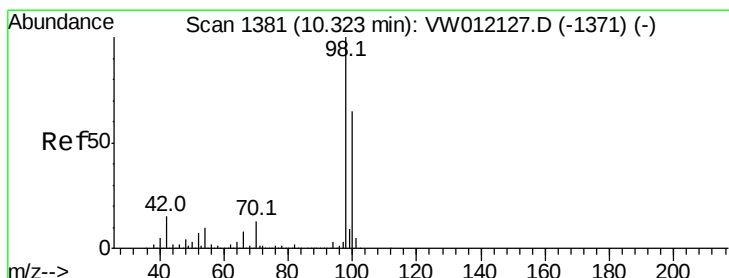
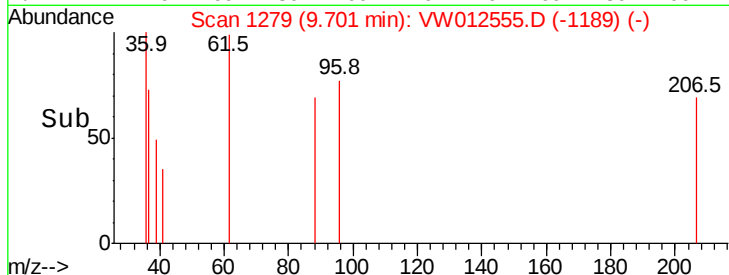
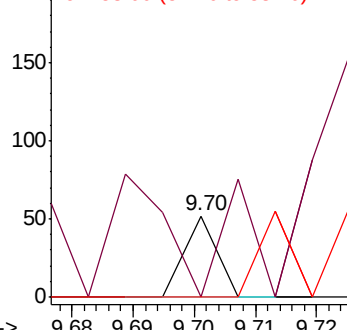
88 100

43 0.0 32.9 49.3#

58 105.3 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: 47.659 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012555.D

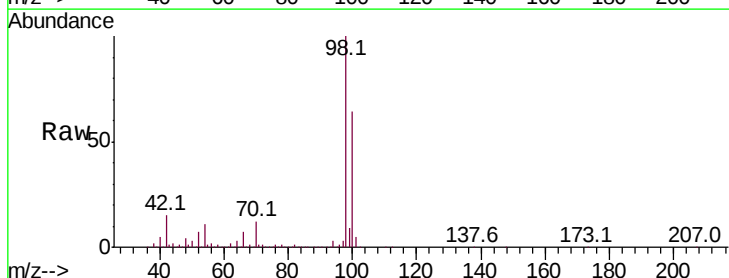
Acq: 03 Sep 2019 18:56

Tgt Ion: 98 Resp: 400344

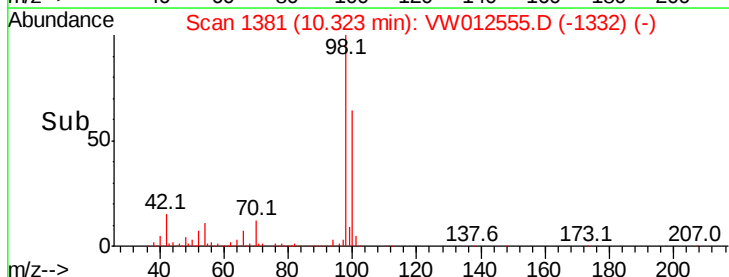
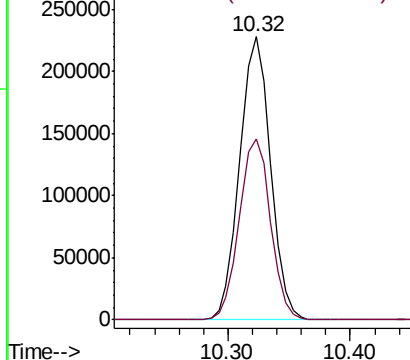
Ion Ratio Lower Upper

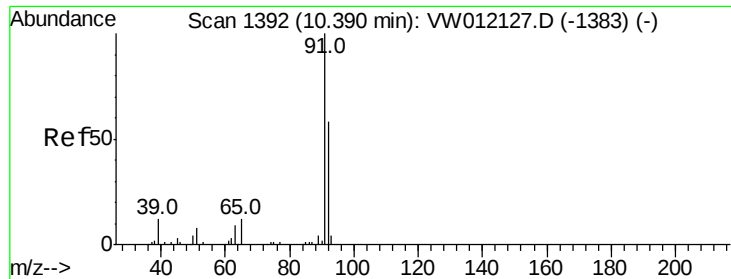
98 100

100 64.7 52.4 78.6



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





#52

Toluene

Concen: 1.448 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Instrument :

MSVOA_W

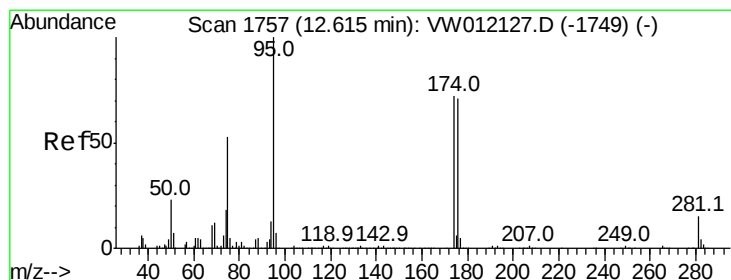
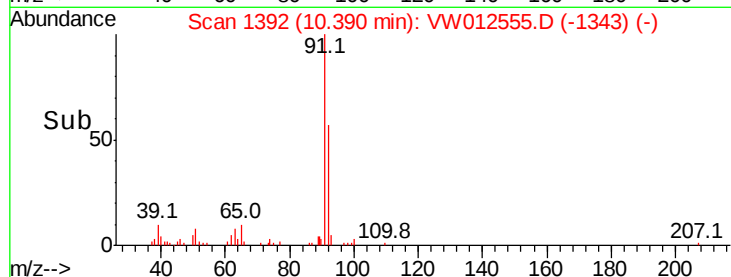
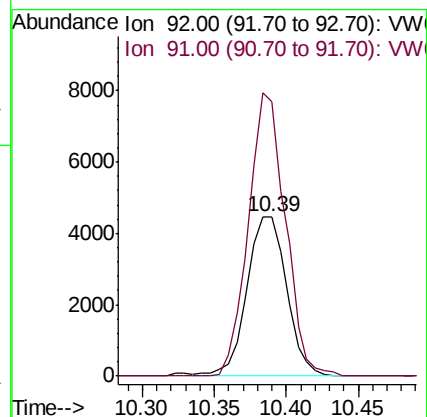
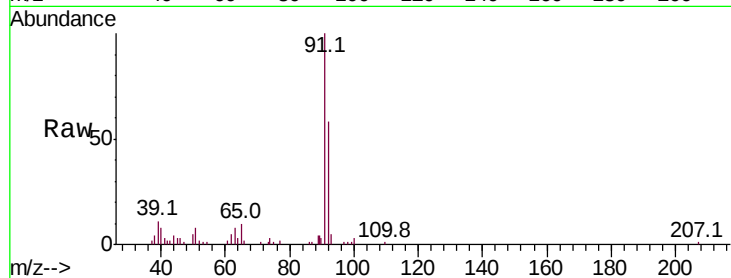
ClientSampleId :

Tot Ion: 92 Resp: 8519

Ion Ratio Lower Upper

92 100

91 165.0 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 26.325 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

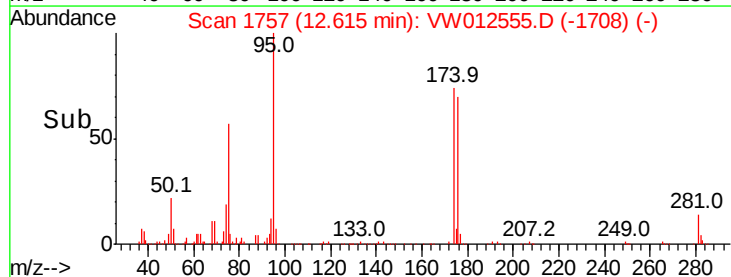
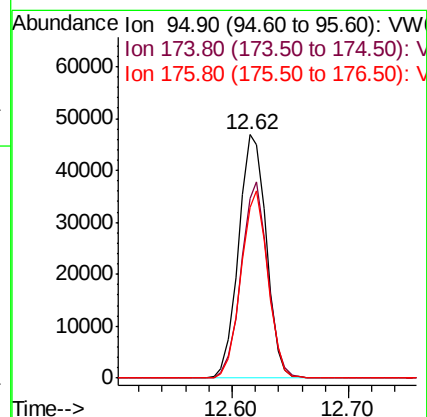
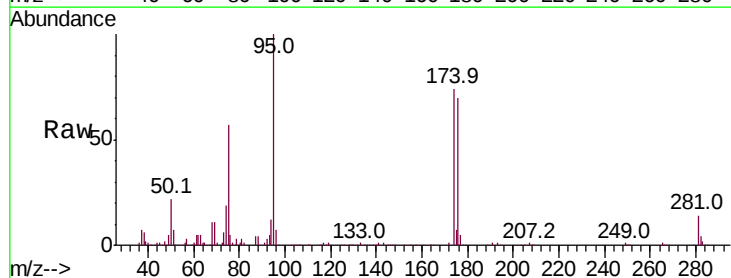
Tgt Ion: 95 Resp: 77949

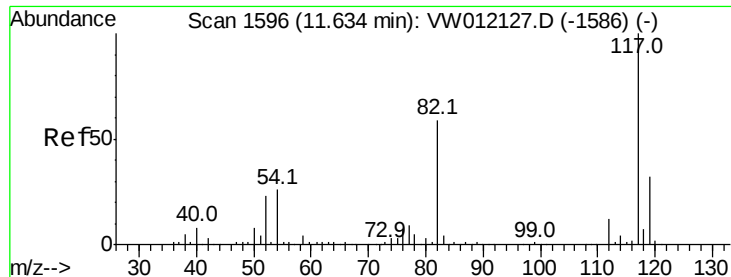
Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.8

176 74.4 0.0 148.6

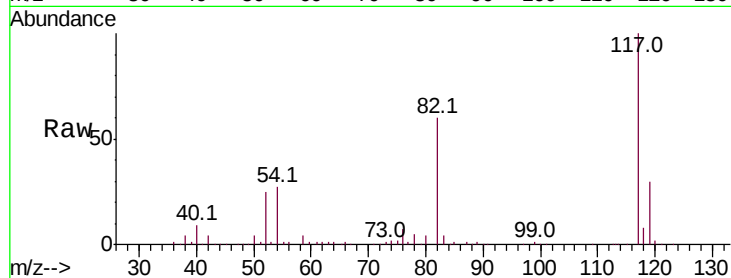




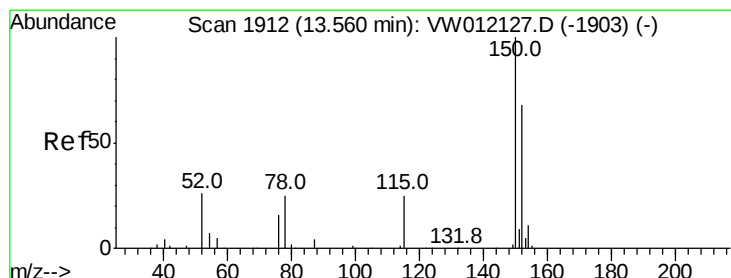
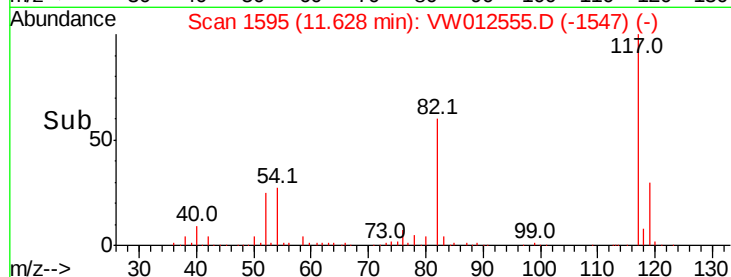
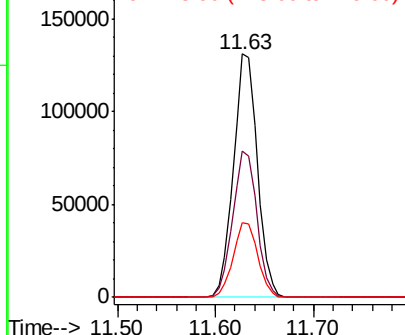
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 223045
Ion Ratio Lower Upper
117 100
82 60.0 47.4 71.2
119 30.5 25.4 38.2

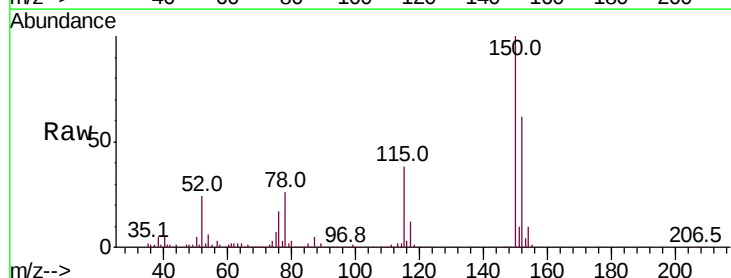


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

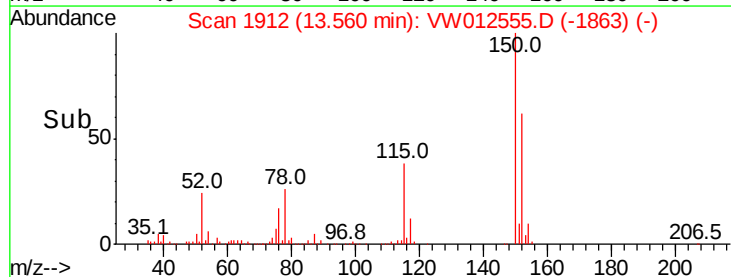
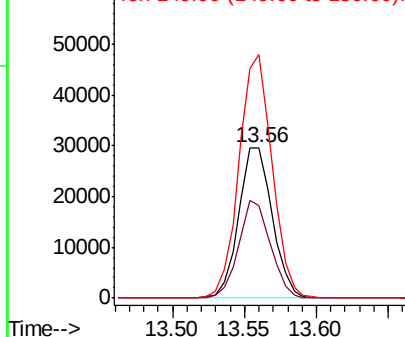


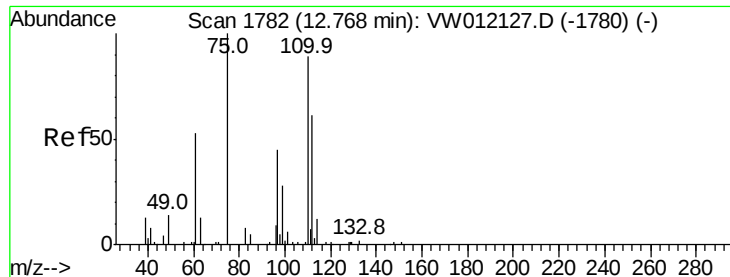
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012555.D
Acq: 03 Sep 2019 18:56

Tgt Ion:152 Resp: 47820
Ion Ratio Lower Upper
152 100
115 61.7 30.1 90.3
150 159.8 0.0 345.8



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

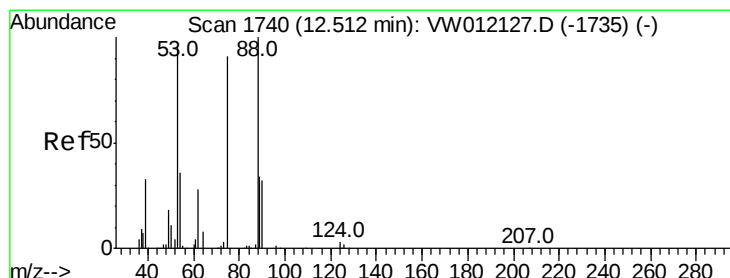
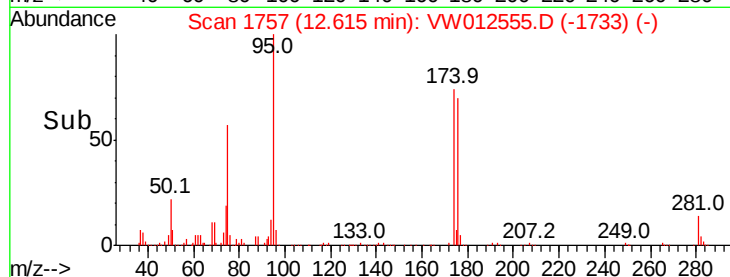
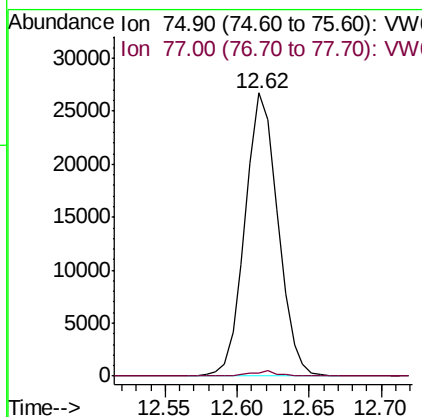
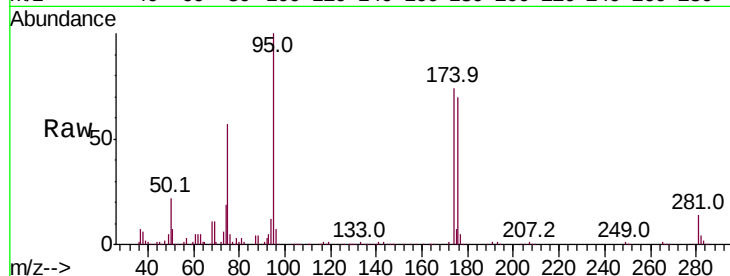




#76
 1,2,3-Trichloropropane
 Concen: 90.840 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012555.D
 Acq: 03 Sep 2019 18:56

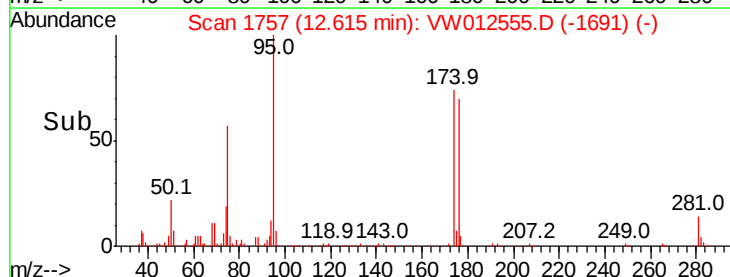
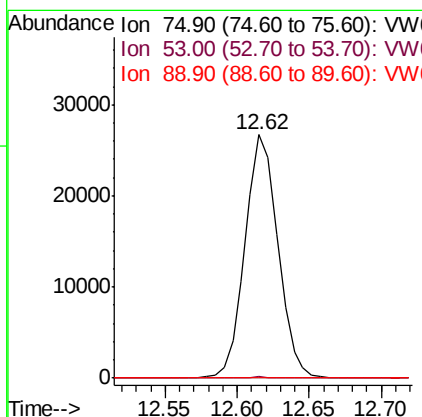
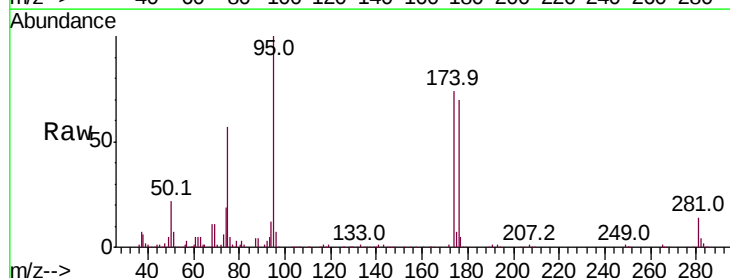
Instrument :
 MSVOA_W
 ClientSampleId :

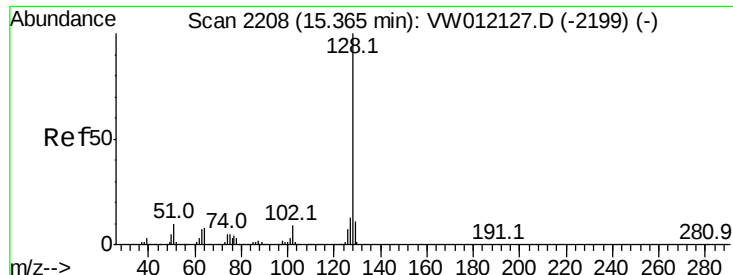
Tot Ion: 75 Resp: 42307
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 199.169 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012555.D
 Acq: 03 Sep 2019 18:56

Tgt Ion: 75 Resp: 42307
 Ion Ratio Lower Upper
 75 100
 53 0.2 89.4 134.0#
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.508 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012555.D

Acq: 03 Sep 2019 18:56

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:128 Resp: 369

Ion Ratio Lower Upper

128 100

127 6.0 10.7 16.1#

129 0.0 8.7 13.1#

