

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083119\
 Data File : VW012401.D
 Acq On : 31 Aug 2019 15:35
 Operator : SY/VA
 Sample : K4472-14RE
 Misc : 5.88G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 31 17:19:40 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	197903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	331497	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	241839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	67086	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	133615	56.80	ug/l	0.00
Spiked Amount			Recovery	=	113.60%	
35) Dibromofluoromethane	7.88	113	104909	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
50) Toluene-d8	10.32	98	390089	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
62) 4-Bromofluorobenzene	12.62	95	96521	34.13	ug/l	0.00
Spiked Amount			Recovery	=	68.26%	

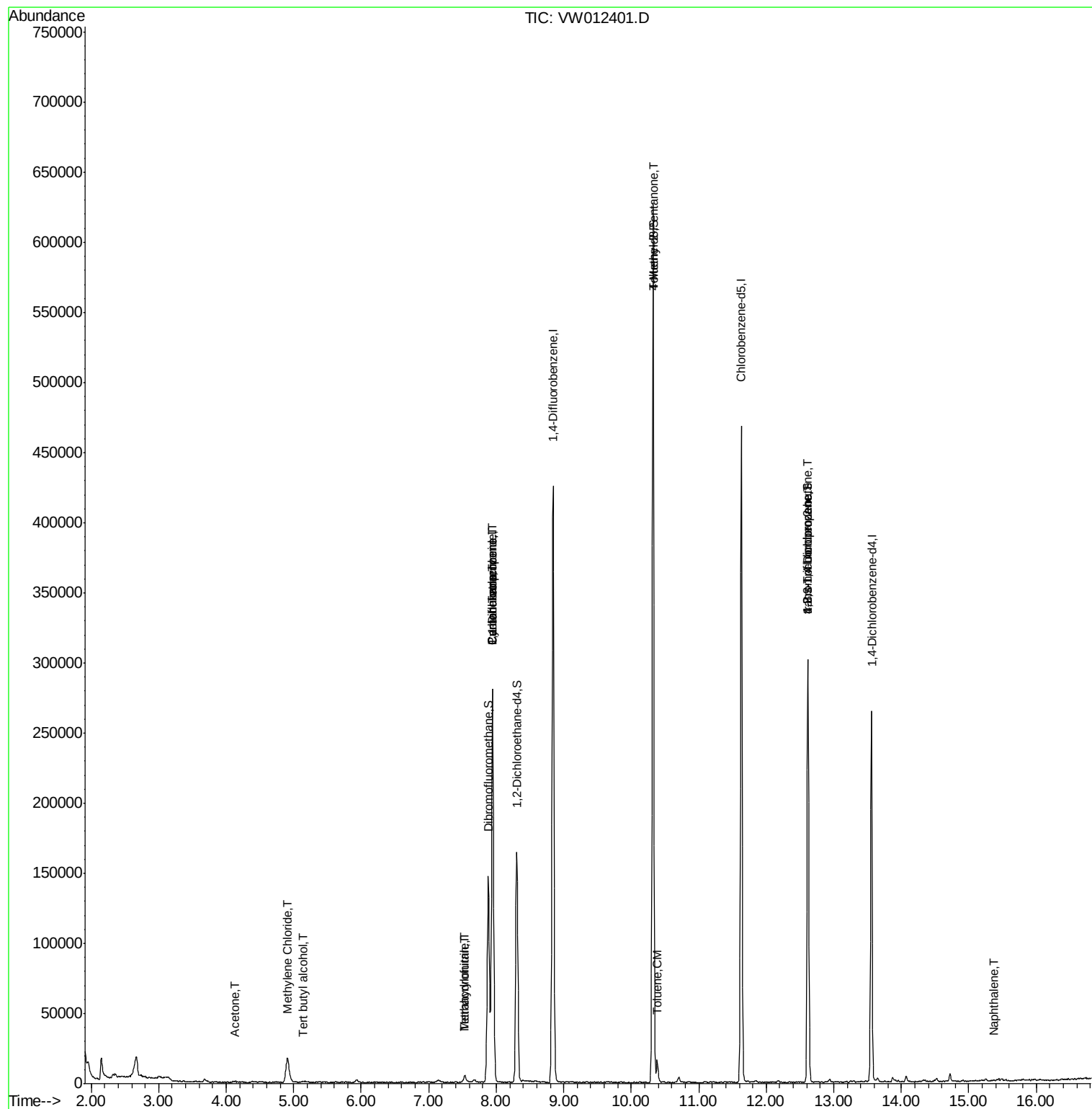
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.13	59	488	3.447	ug/l #	71
16) Acetone	4.13	43	1541	2.562	ug/l	93
20) Methylene Chloride	4.91	84	12558	5.524	ug/l	93
29) Tetrahydrofuran	7.54	42	4141	8.446	ug/l	95
31) Cyclohexane	7.94	56	5294	1.249	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17184	5.016	ug/l #	53
38) Carbon Tetrachloride	7.95	117	20189	6.809	ug/l #	16
41) Methacrylonitrile	7.54	41	2781	2.521	ug/l #	55
51) 4-Methyl-2-Pentanone	10.32	43	2453	1.387	ug/l #	1
52) Toluene	10.38	92	5937	1.057	ug/l	100
76) 1,2,3-Trichloropropane	12.62	75	52453	80.281	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	52453	176.018	ug/l #	6
95) Naphthalene	15.38	128	230	4.404	ug/l #	69

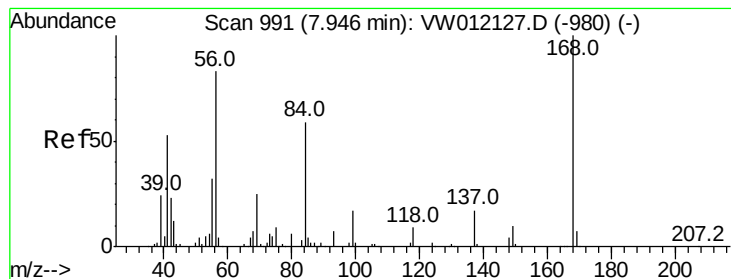
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA_W

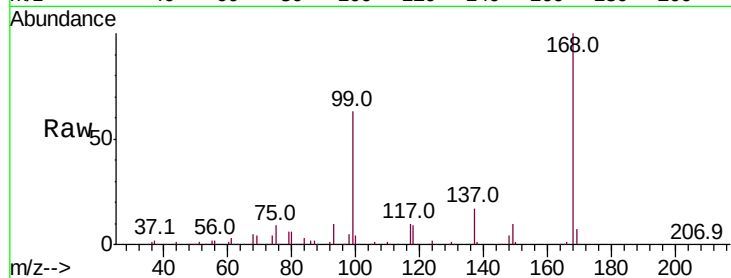
ClientSampled :

Tot Ion:168 Resp: 197903

Ion Ratio Lower Upper

168 100

99 63.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

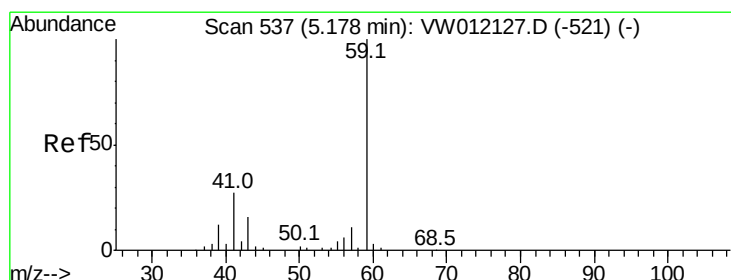
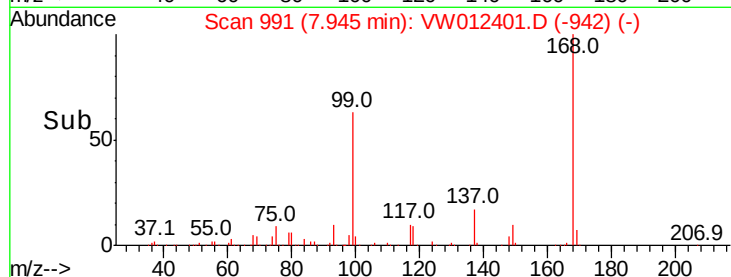
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 3.447 ug/l

RT: 5.13 min Scan# 530

Delta R.T. -0.04 min

Lab File: VW012401.D

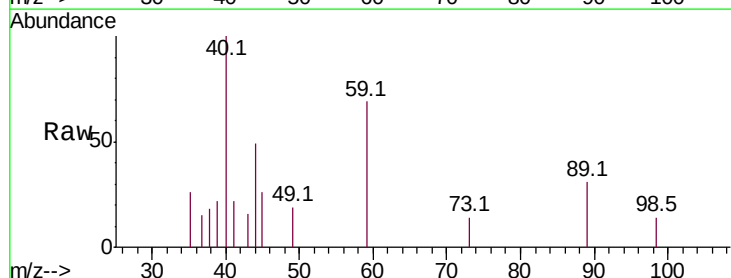
Acq: 31 Aug 2019 15:35

Tgt Ion: 59 Resp: 488

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

5.13

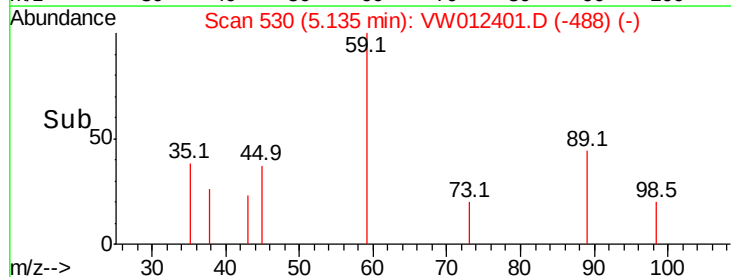
300

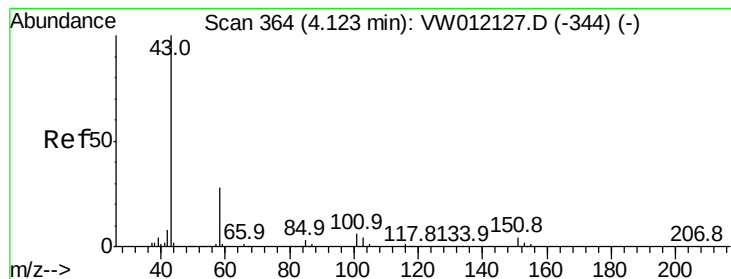
200

100

0

Time--> 5.05 5.10 5.15





#16

Acetone

Concen: 2.562 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA_W

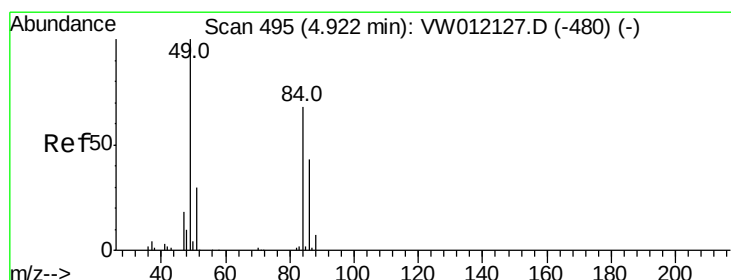
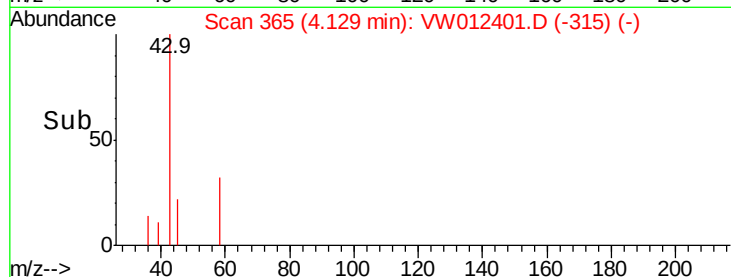
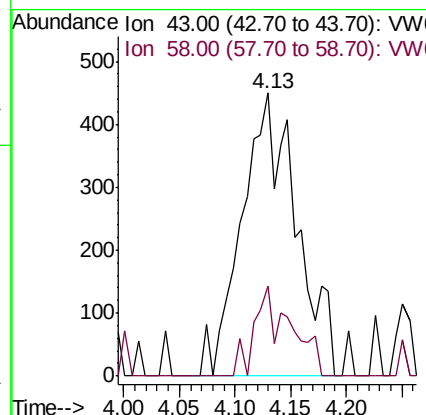
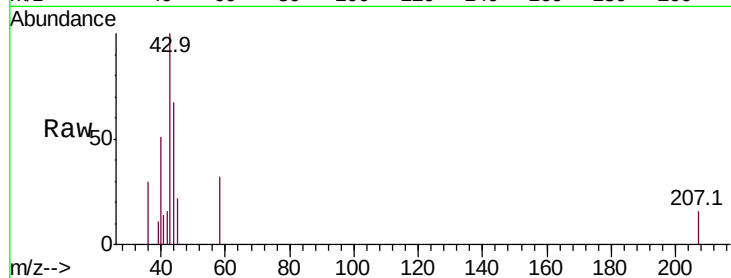
ClientSampled :

Tot Ion: 43 Resp: 1541

Ion Ratio Lower Upper

43 100

58 31.8 22.4 33.6



#20

Methylene Chloride

Concen: 5.524 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Tgt Ion: 84 Resp: 12558

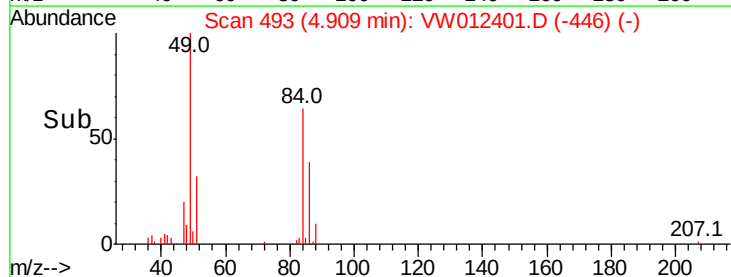
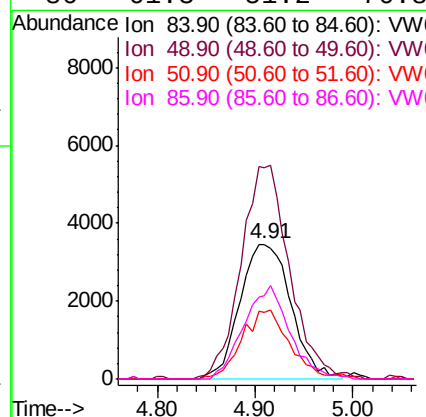
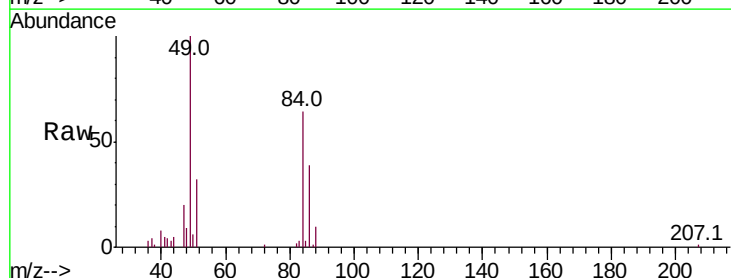
Ion Ratio Lower Upper

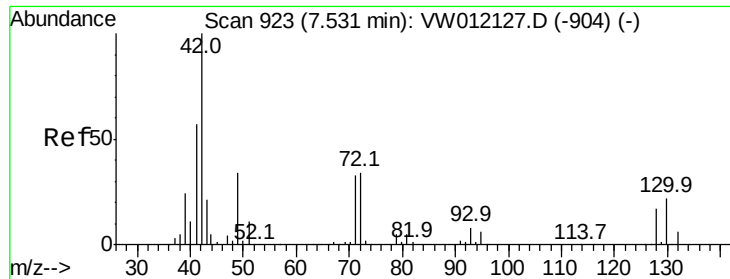
84 100

49 156.8 117.8 176.8

51 49.7 35.6 53.4

86 61.3 51.2 76.8





#29

Tetrahydrofuran

Concen: 8.446 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :
MSVOA_W
ClientSampled :

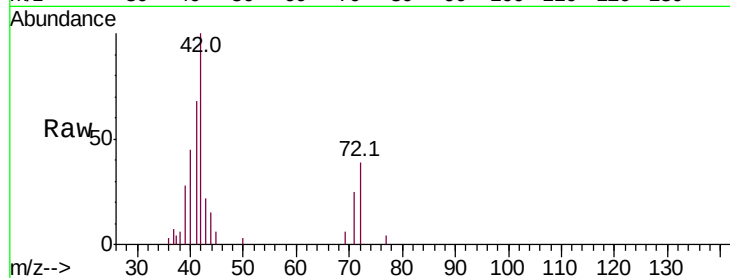
Tot Ion: 42 Resp: 4141

Ion Ratio Lower Upper

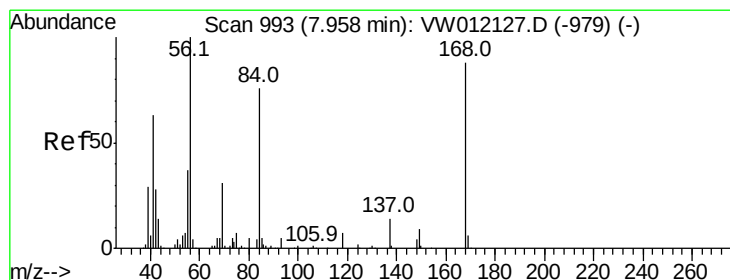
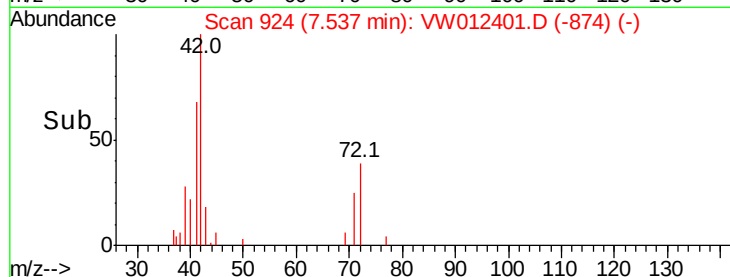
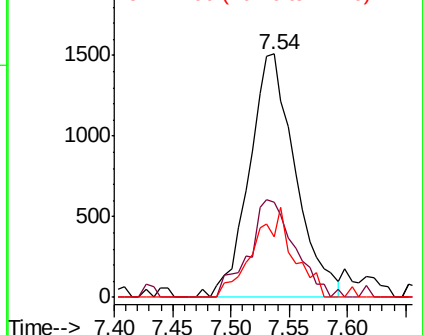
42 100

72 39.8 27.3 40.9

71 31.8 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: 1.249 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

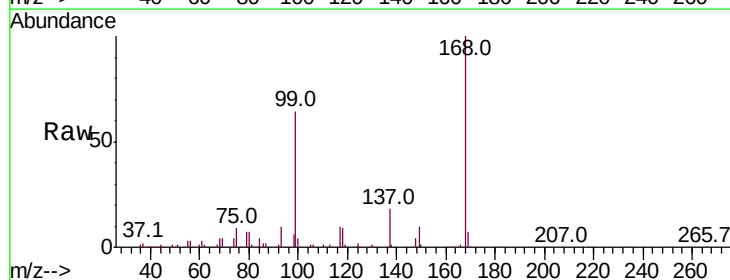
Tgt Ion: 56 Resp: 5294

Ion Ratio Lower Upper

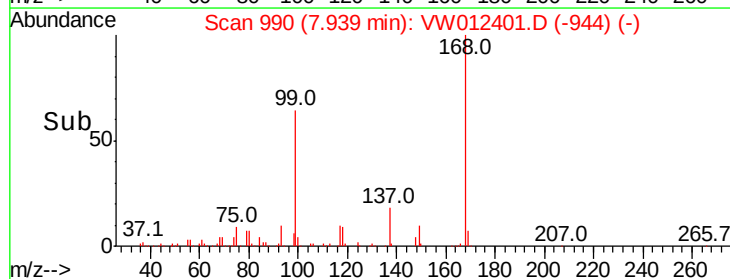
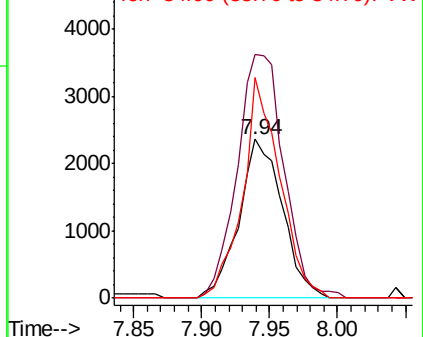
56 100

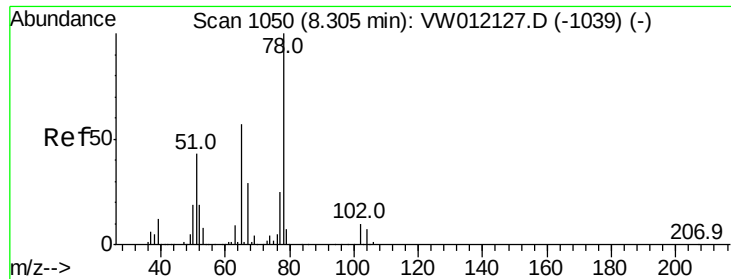
69 153.4 24.9 37.3#

84 139.1 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

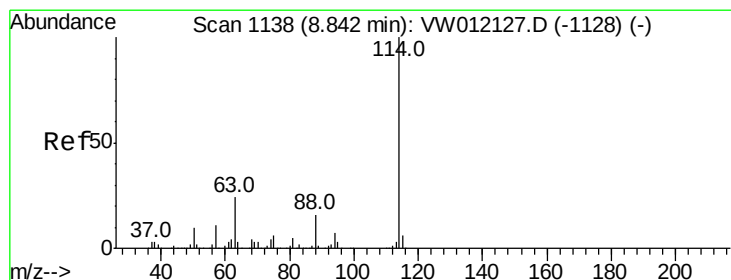
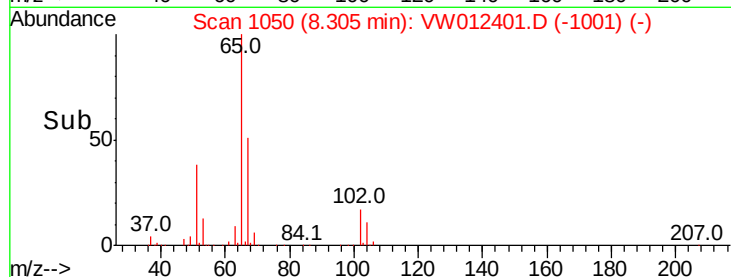
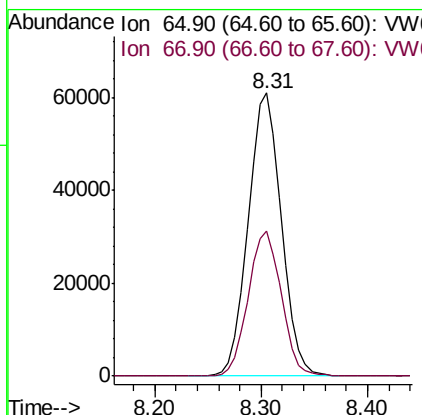
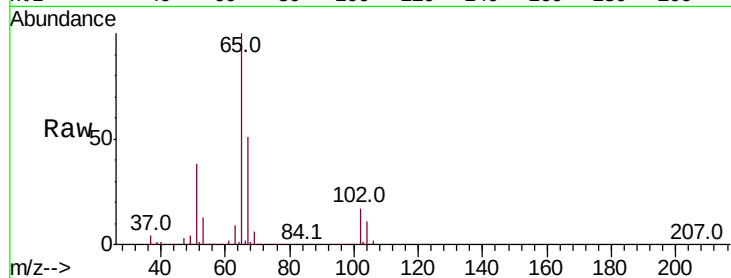




#33
 1,2-Dichloroethane-d4
 Concen: 56.795 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012401.D
 Acq: 31 Aug 2019 15:35

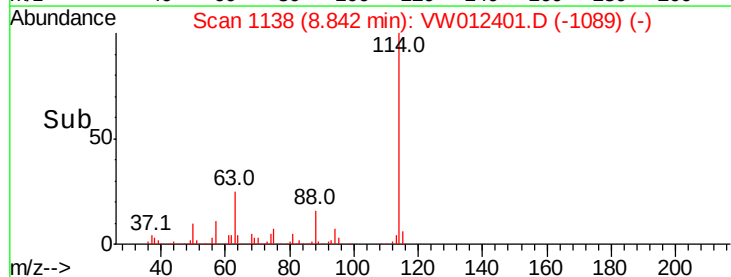
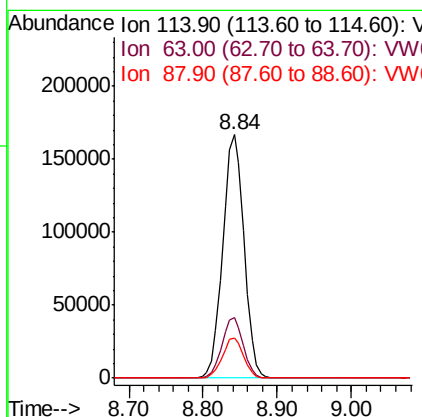
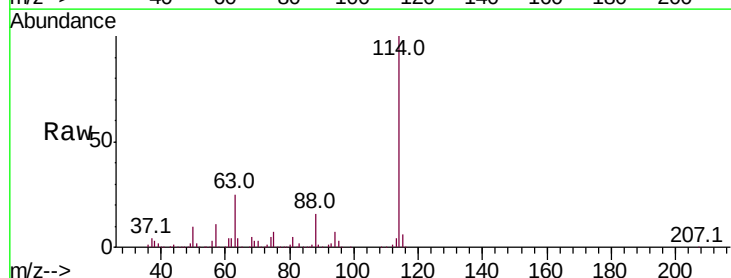
Instrument :
 MSVOA_W
 ClientSampleId :

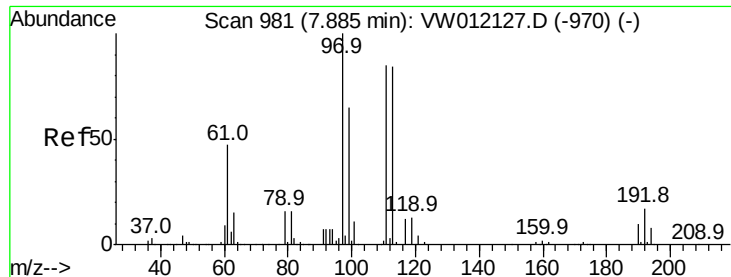
Tot Ion: 65 Resp: 133615
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012401.D
 Acq: 31 Aug 2019 15:35

Tgt Ion: 114 Resp: 331497
 Ion Ratio Lower Upper
 114 100
 63 24.9 0.0 48.6
 88 16.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 53.019 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :
MSVOA_W
ClientSampled :

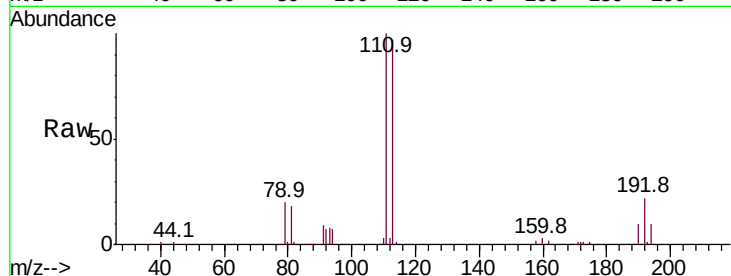
Tot Ion:113 Resp: 104909

Ion Ratio Lower Upper

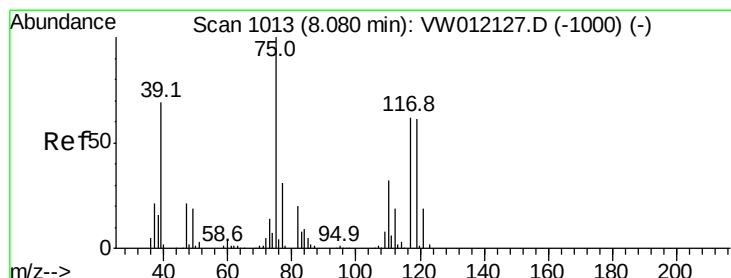
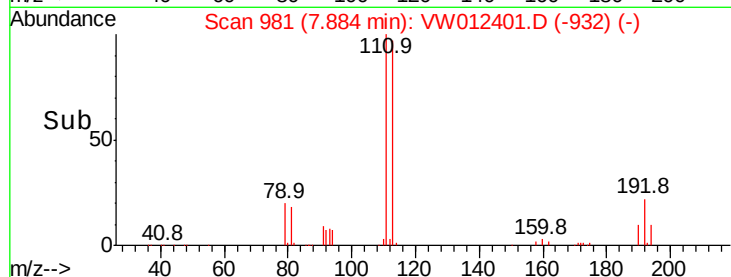
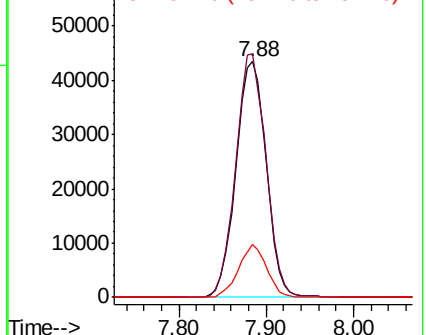
113 100

111 103.1 82.7 124.1

192 20.6 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: 5.016 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

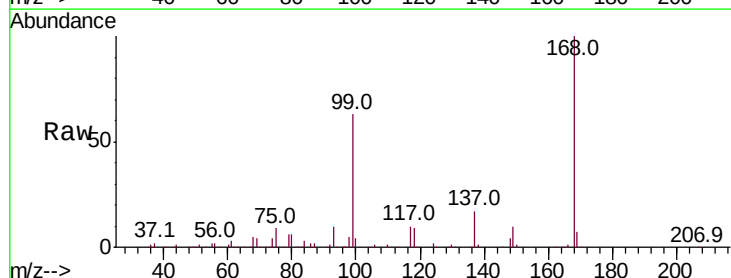
Tgt Ion: 75 Resp: 17184

Ion Ratio Lower Upper

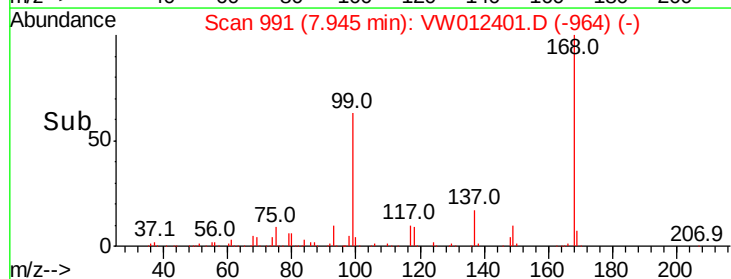
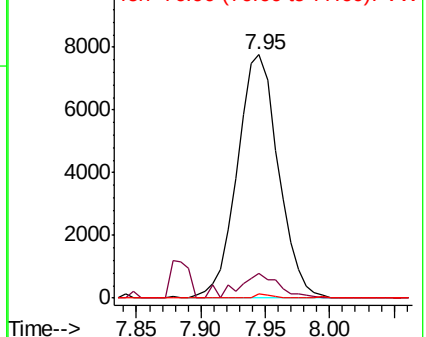
75 100

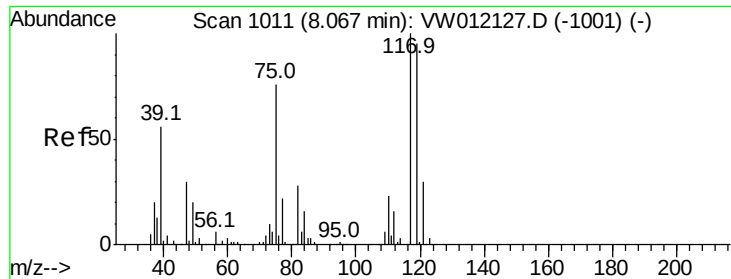
110 9.2 15.6 46.8#

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





#38

Carbon Tetrachloride

Concen: 6.809 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA_W

ClientSampleId :

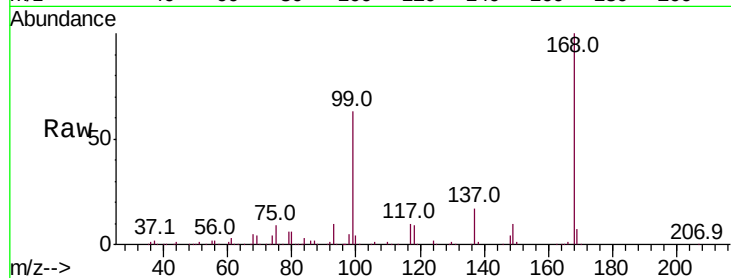
Tot Ion:117 Resp: 20189

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

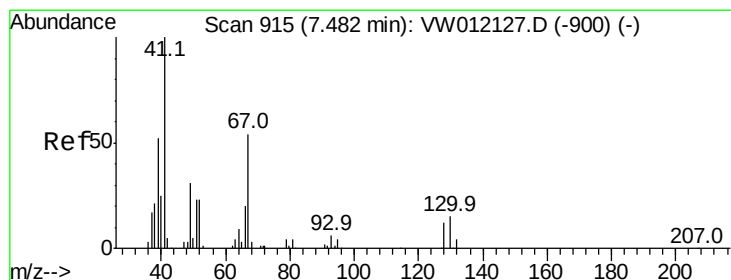
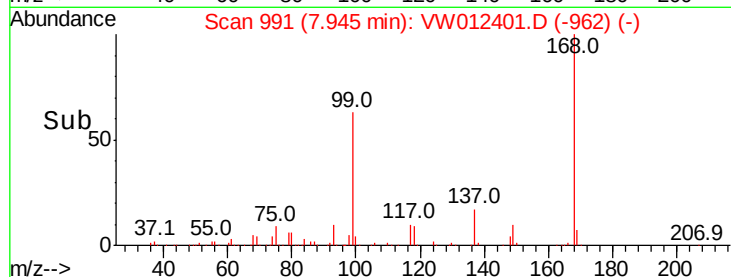
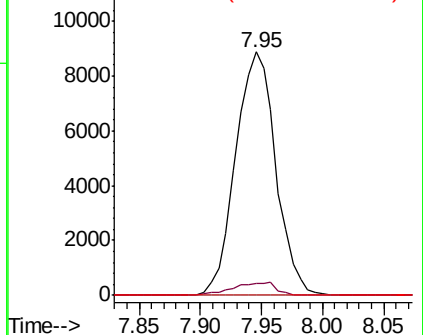
121 0.0 23.8 35.8#



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: 2.521 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Tgt Ion: 41 Resp: 2781

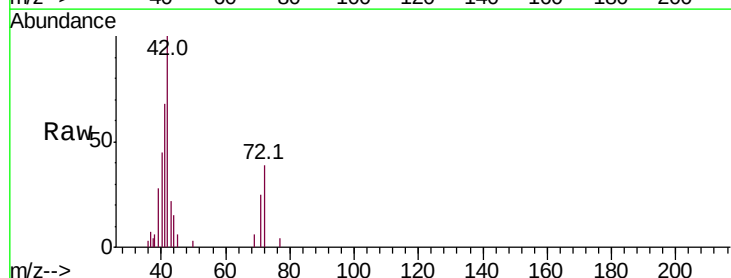
Ion Ratio Lower Upper

41 100

39 50.1 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

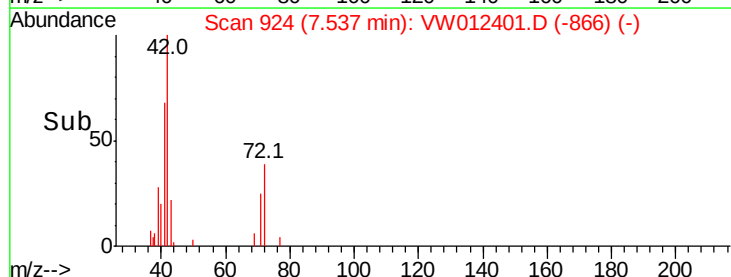
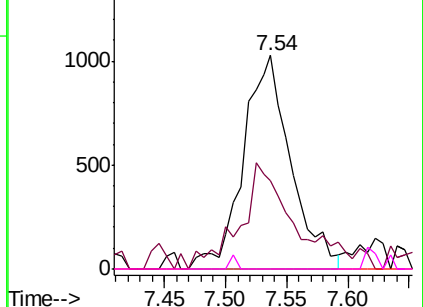


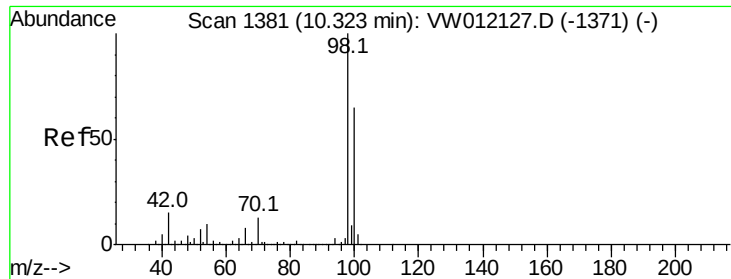
Abundance Ion 41.00 (40.70 to 41.70): VW

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

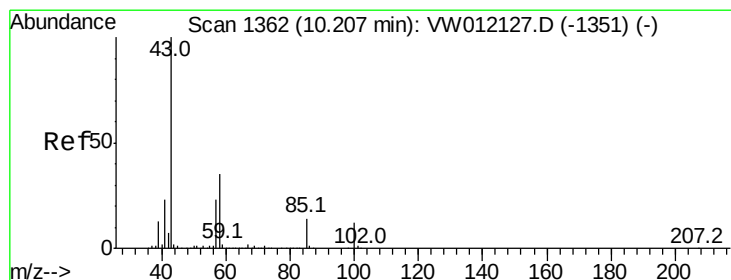
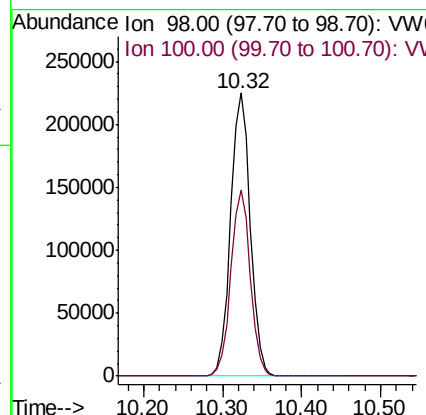
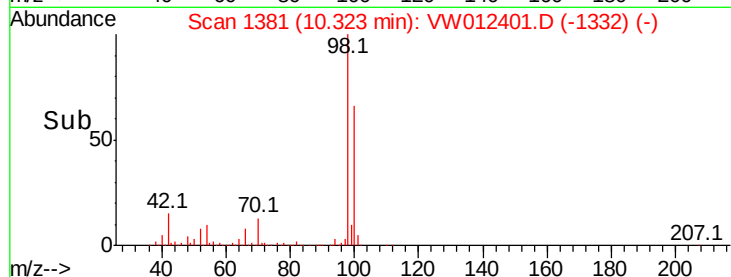
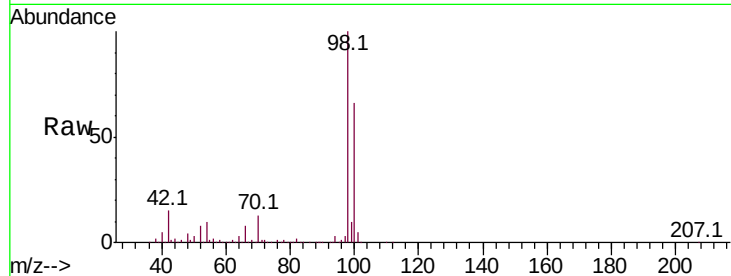




#50
Toluene-d8
Concen: 48.621 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012401.D
Acq: 31 Aug 2019 15:35

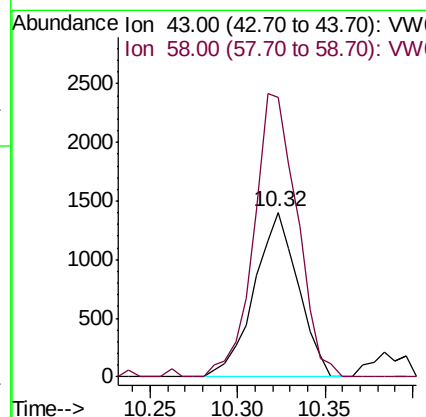
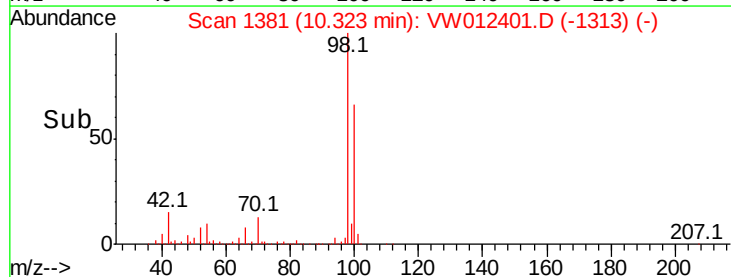
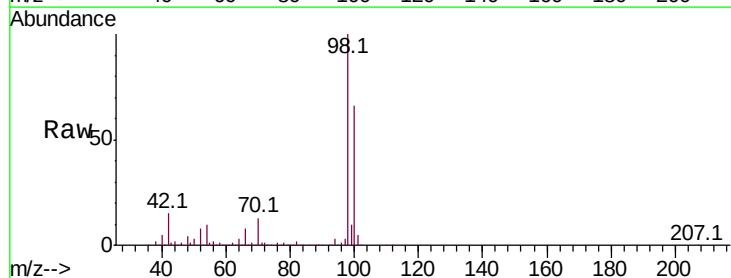
Instrument :
MSVOA_W
ClientSampled :

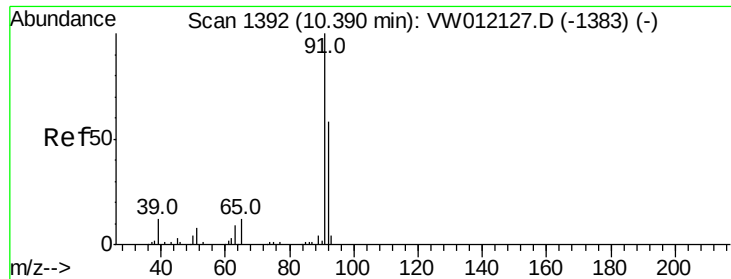
Tot Ion: 98 Resp: 390089
Ion Ratio Lower Upper
98 100
100 64.8 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 1.387 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.12 min
Lab File: VW012401.D
Acq: 31 Aug 2019 15:35

Tgt Ion: 43 Resp: 2453
Ion Ratio Lower Upper
43 100
58 169.6 28.2 42.2#





#52

Toluene

Concen: 1.057 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA_W

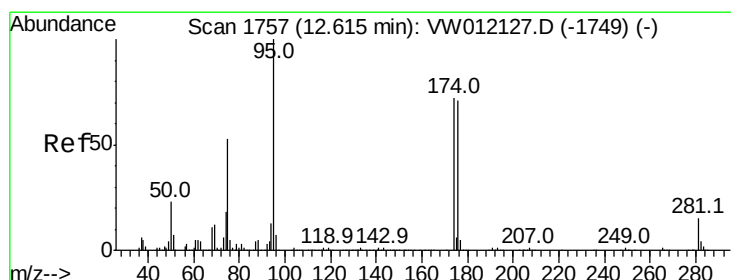
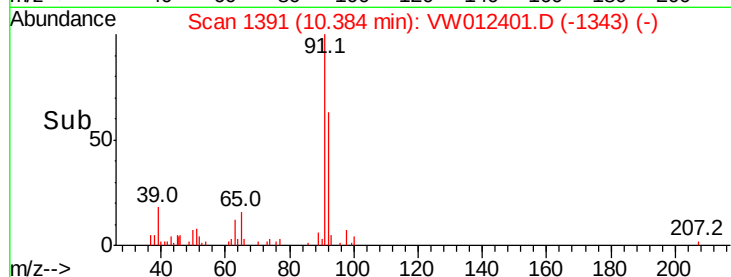
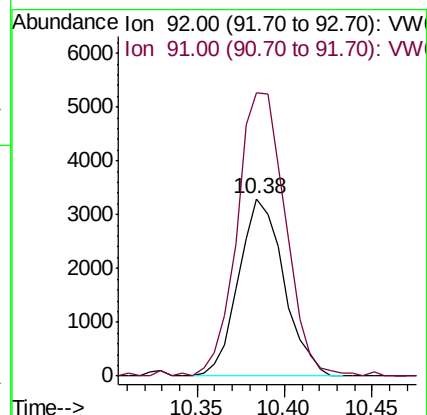
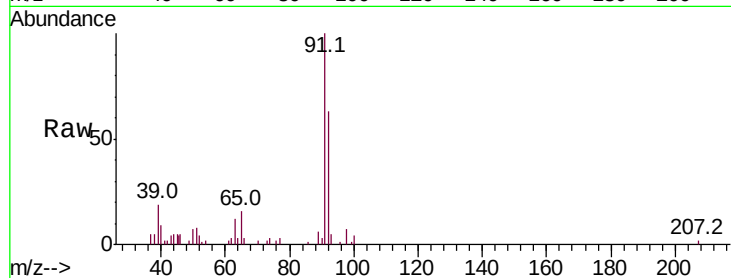
ClientSampleId :

Tot Ion: 92 Resp: 5937

Ion Ratio Lower Upper

92 100

91 170.3 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 34.129 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

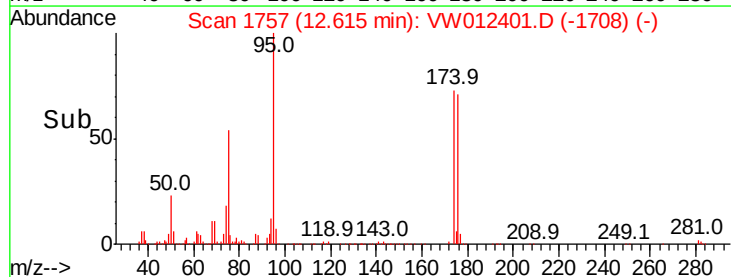
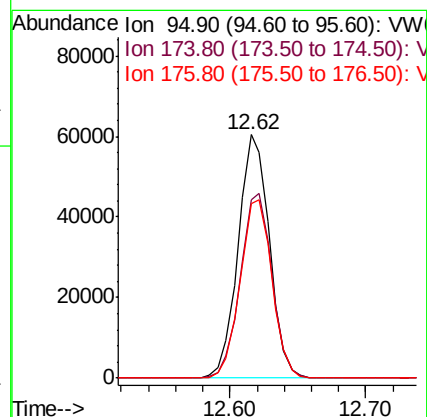
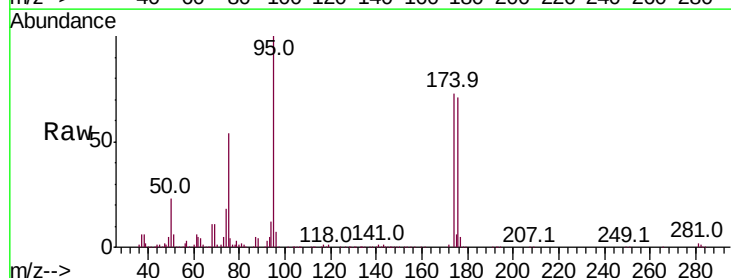
Tgt Ion: 95 Resp: 96521

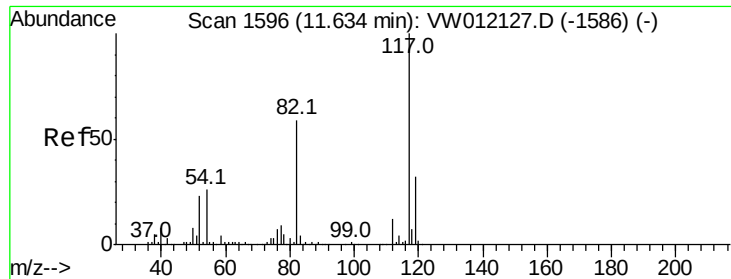
Ion Ratio Lower Upper

95 100

174 77.4 0.0 150.8

176 74.9 0.0 148.6

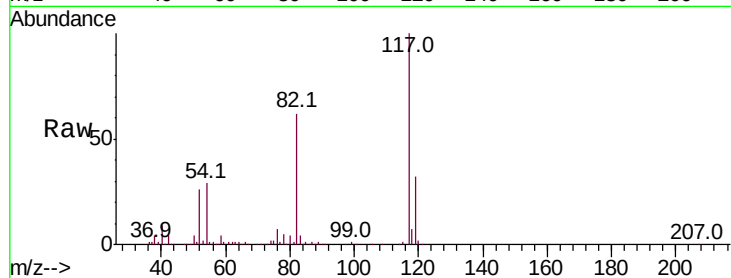




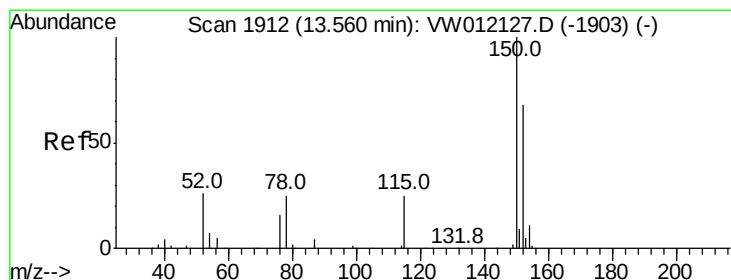
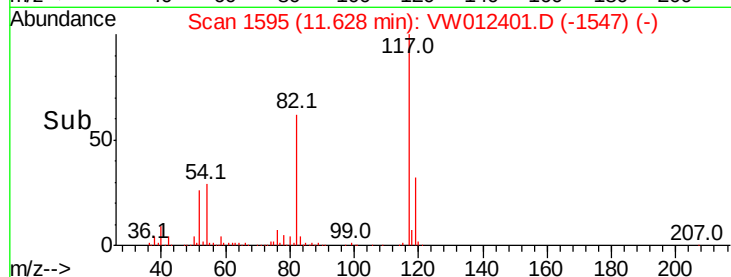
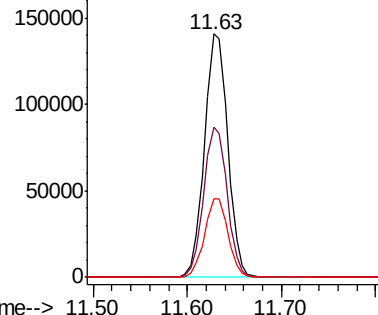
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012401.D
Acq: 31 Aug 2019 15:35

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 241839
Ion Ratio Lower Upper
117 100
82 61.5 47.4 71.2
119 32.2 25.4 38.2

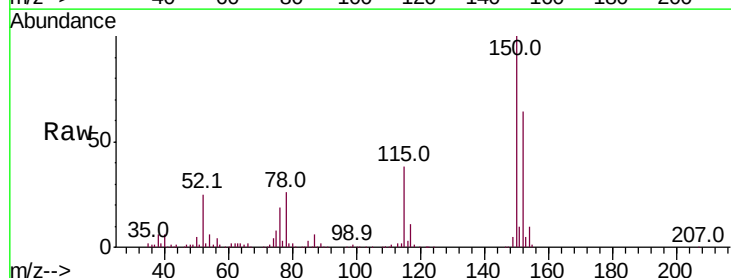


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

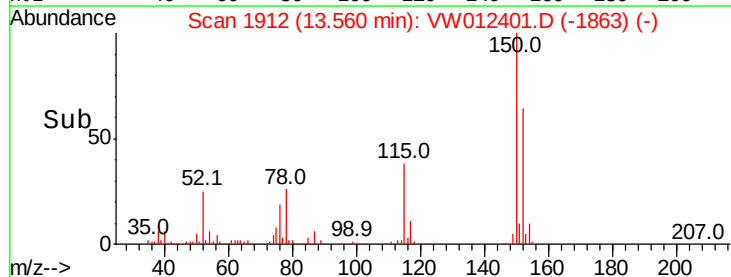
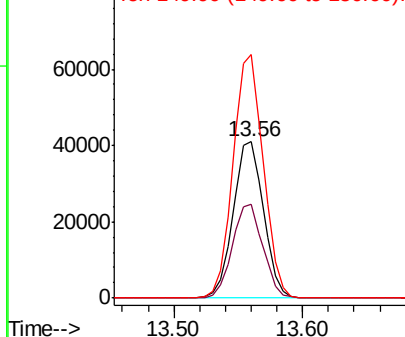


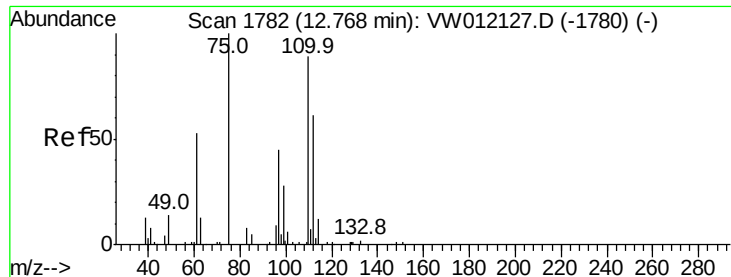
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012401.D
Acq: 31 Aug 2019 15:35

Tgt Ion:152 Resp: 67086
Ion Ratio Lower Upper
152 100
115 60.2 30.1 90.3
150 155.2 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: 80.281 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA_W

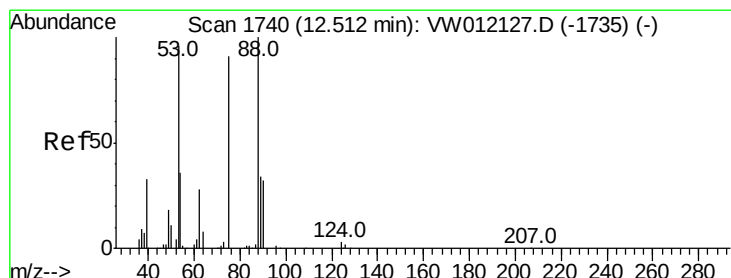
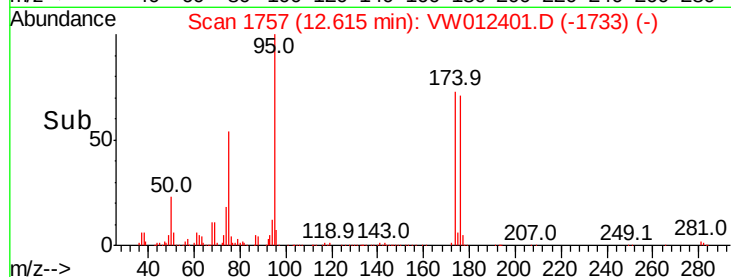
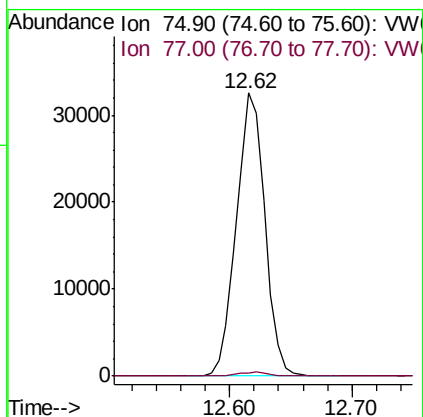
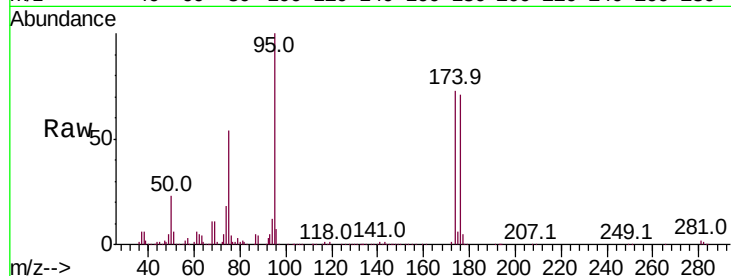
ClientSampleId :

Tot Ion: 75 Resp: 52453

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 176.018 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

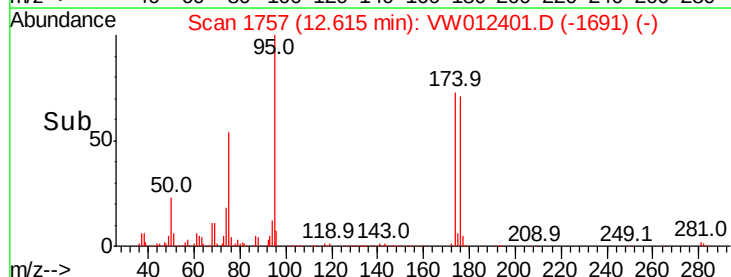
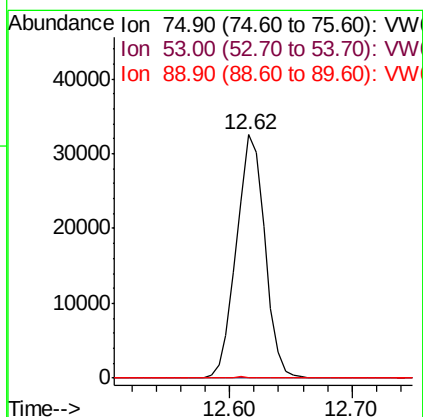
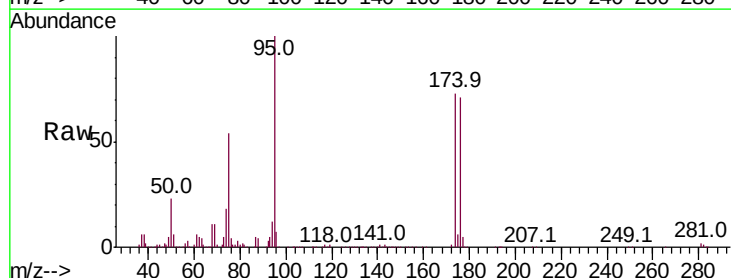
Tgt Ion: 75 Resp: 52453

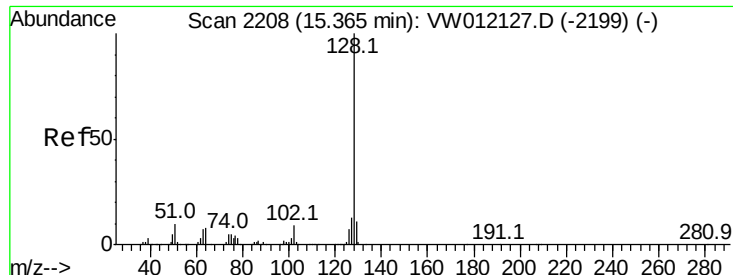
Ion Ratio Lower Upper

75 100

53 0.1 89.4 134.0#

89 0.1 34.5 51.7#





#95

Naphthalene

Concen: 4.404 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012401.D

Acq: 31 Aug 2019 15:35

Instrument :

MSVOA_W

ClientSampleId :

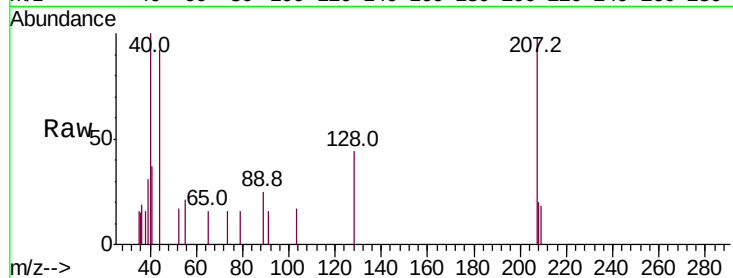
Tot Ion:128 Resp: 230

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 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

