

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090319\
 Data File : VW012550.D
 Acq On : 03 Sep 2019 16:47
 Operator : SY/VA
 Sample : K4550-02
 Misc : 4.70G/5ML/MSVOA W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 03 17:10:11 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	207385	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	331628	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	233002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	58012	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	132458	53.73	ug/l	0.00
Spiked Amount			Recovery	=	107.46%	
35) Dibromofluoromethane	7.88	113	104195	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
50) Toluene-d8	10.32	98	391568	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	12.62	95	87777	31.02	ug/l	0.00
Spiked Amount			Recovery	=	62.04%	

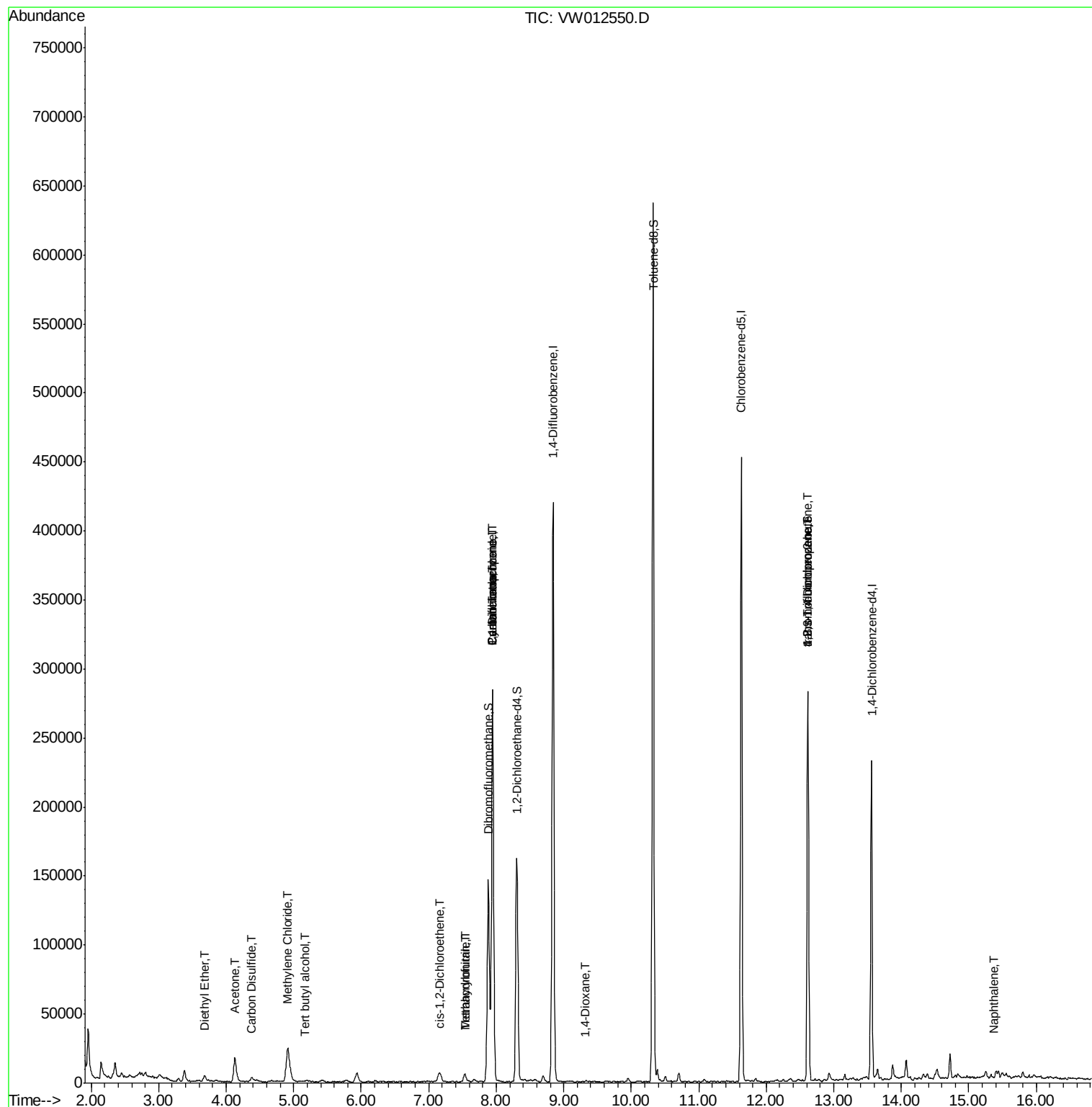
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	2646	2.293	ug/l	97
11) Tert butyl alcohol	5.17	59	621	4.186	ug/l #	50
16) Acetone	4.13	43	32881	52.177	ug/l	96
17) Carbon Disulfide	4.38	76	6330	1.007	ug/l	99
20) Methylene Chloride	4.92	84	18271	7.669	ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	2485	1.043	ug/l	99
29) Tetrahydrofuran	7.54	42	5000	9.732	ug/l	99
31) Cyclohexane	7.94	56	5465	1.231	ug/l #	4
36) 1,1-Dichloropropene	7.95	75	17628	5.144	ug/l #	52
38) Carbon Tetrachloride	7.95	117	20850	7.029	ug/l #	17
41) Methacrylonitrile	7.53	41	3005	2.723	ug/l #	58
49) 1,4-Dioxane	9.31	88	27	1.574	ug/l #	14
76) 1,2,3-Trichloropropane	12.62	75	47885	84.753	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	47885	185.824	ug/l #	6
95) Naphthalene	15.36	128	446	4.507	ug/l #	82

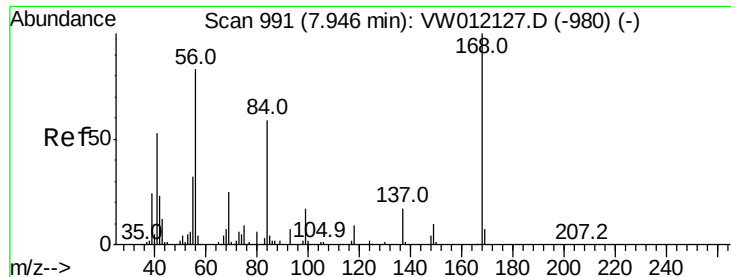
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :

MSVOA_W

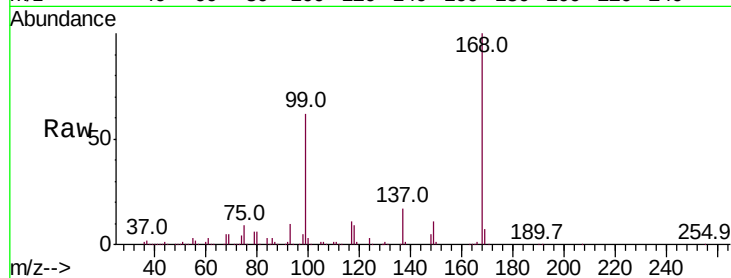
ClientSampled :

Tot Ion:168 Resp: 207385

Ion Ratio Lower Upper

168 100

99 61.5 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

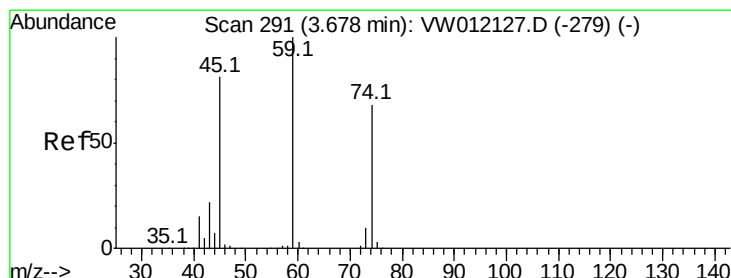
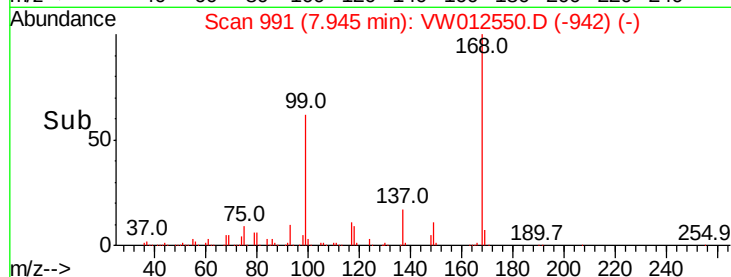
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 2.293 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012550.D

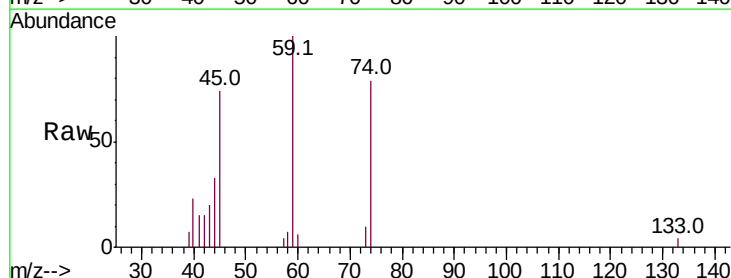
Acq: 03 Sep 2019 16:47

Tgt Ion: 74 Resp: 2646

Ion Ratio Lower Upper

74 100

45 122.0 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

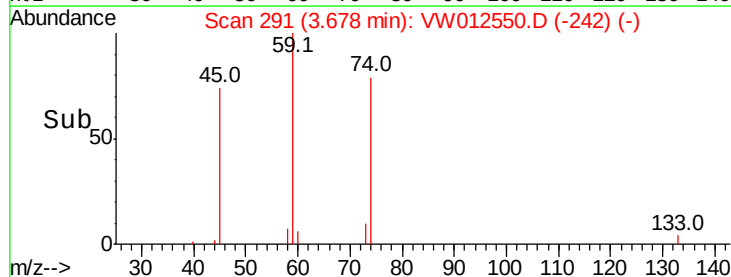
3.68

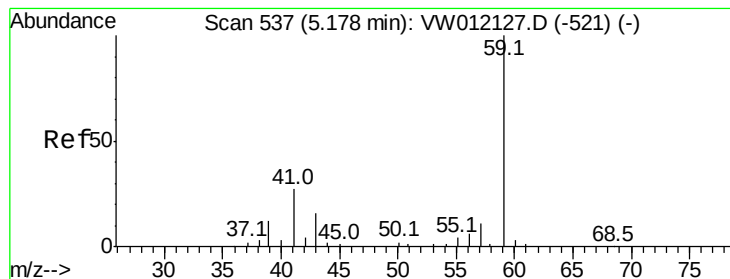
1000

500

0

Time--> 3.60 3.65 3.70 3.75



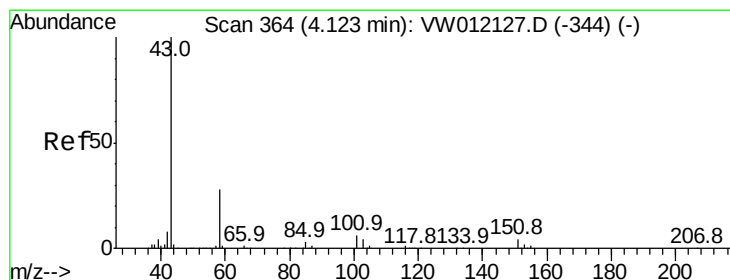
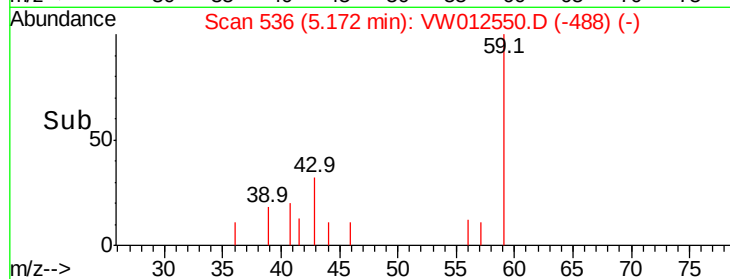
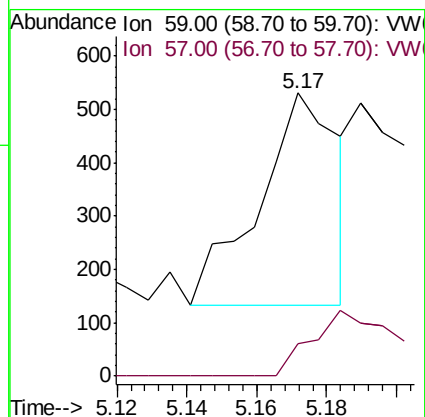
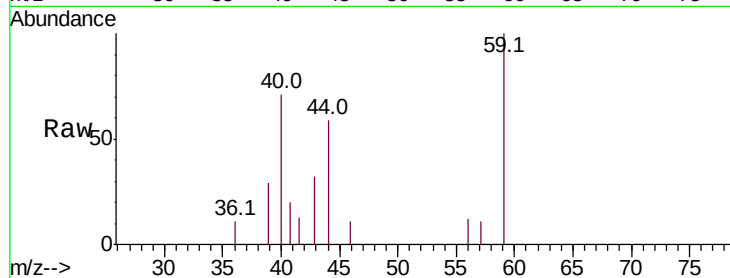


#11

Tert butyl alcohol
 Concen: 4.186 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. -0.01 min
 Lab File: VW012550.D
 Acq: 03 Sep 2019 16:47

Instrument :
 MSVOA_W
 ClientSampled :

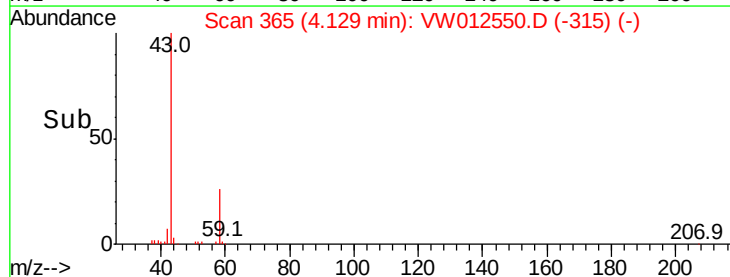
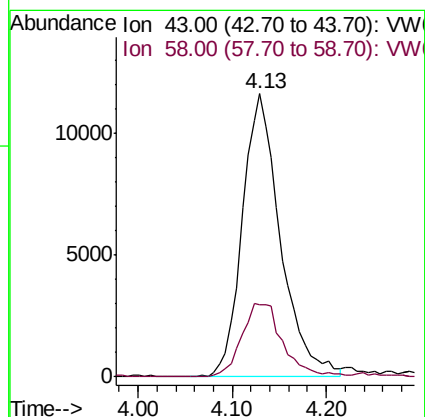
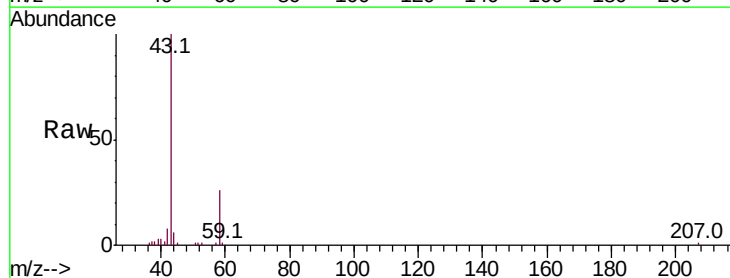
Tot Ion: 59 Resp: 621
 Ion Ratio Lower Upper
 59 100
 57 30.1 9.0 13.4#

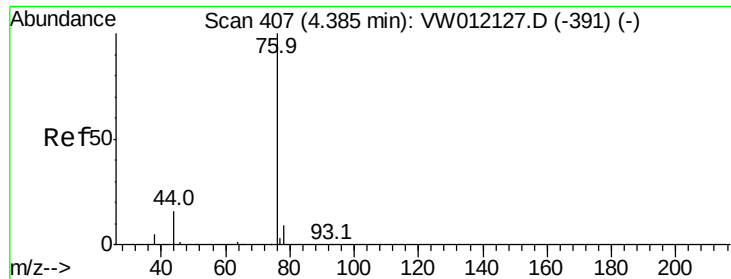


#16

Acetone
 Concen: 52.177 ug/l
 RT: 4.13 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VW012550.D
 Acq: 03 Sep 2019 16:47

Tgt Ion: 43 Resp: 32881
 Ion Ratio Lower Upper
 43 100
 58 25.7 22.4 33.6





#17

Carbon Disulfide

Concen: 1.007 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :

MSVOA_W

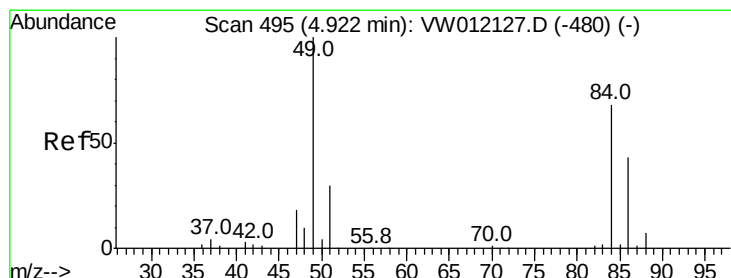
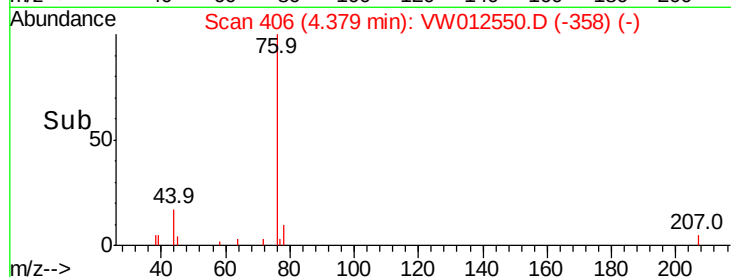
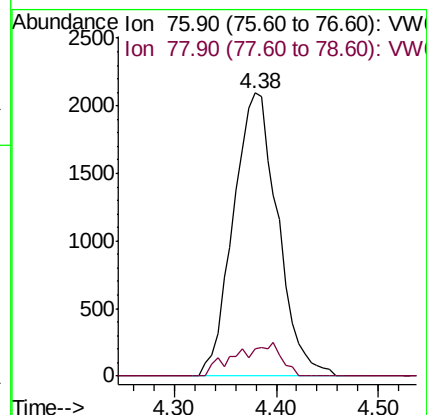
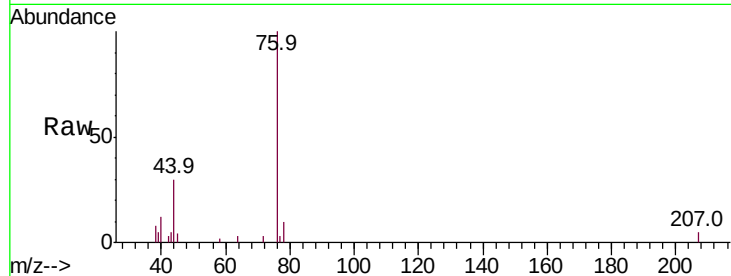
ClientSampleId :

Tot Ion: 76 Resp: 6330

Ion Ratio Lower Upper

76 100

78 9.6 7.3 10.9



#20

Methylene Chloride

Concen: 7.669 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

Tgt Ion: 84 Resp: 18271

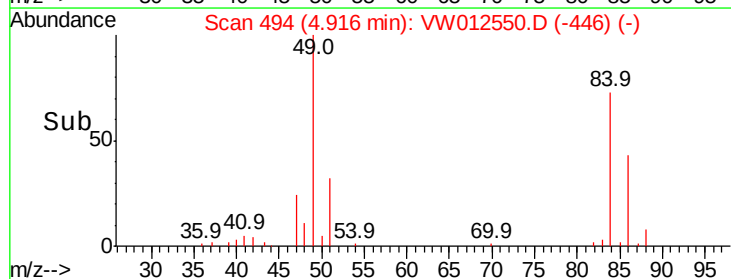
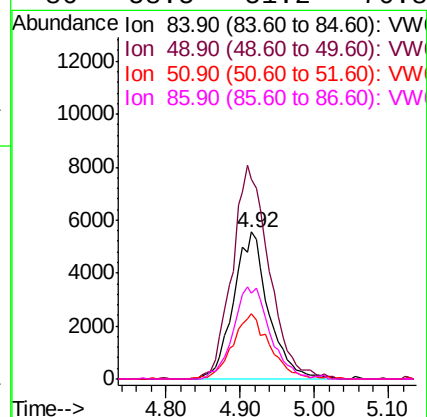
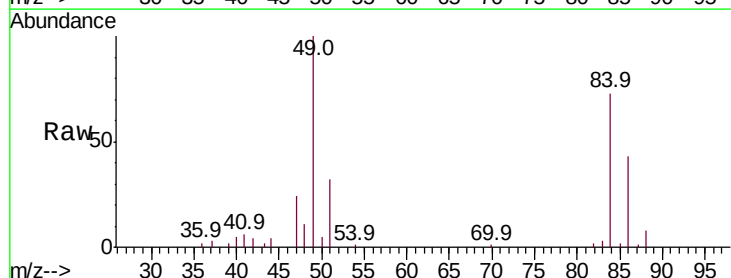
Ion Ratio Lower Upper

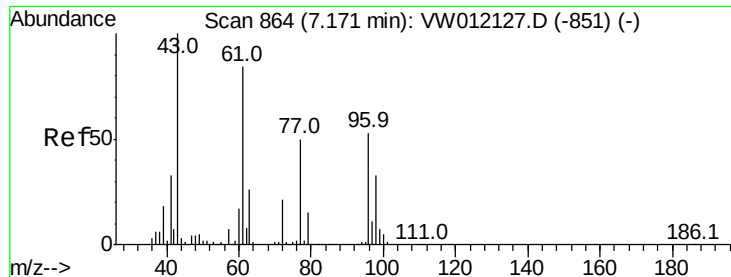
84 100

49 136.1 117.8 176.8

51 43.0 35.6 53.4

86 58.5 51.2 76.8



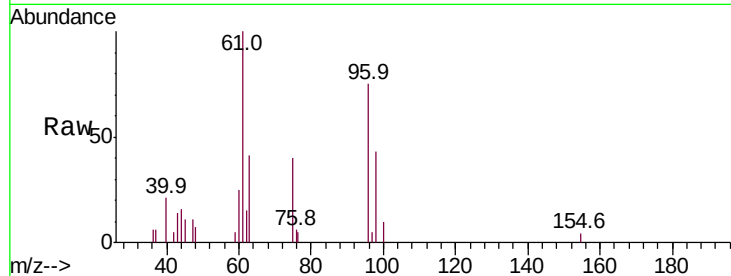


#27

cis-1,2-Dichloroethene
 Concen: 1.043 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW012550.D
 Acq: 03 Sep 2019 16:47

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	161.1	0.0	326.6
98	64.1	0.0	127.4

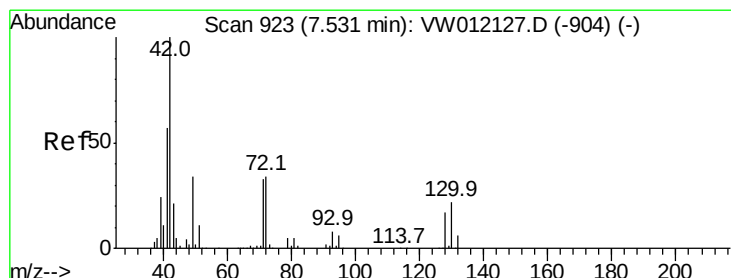
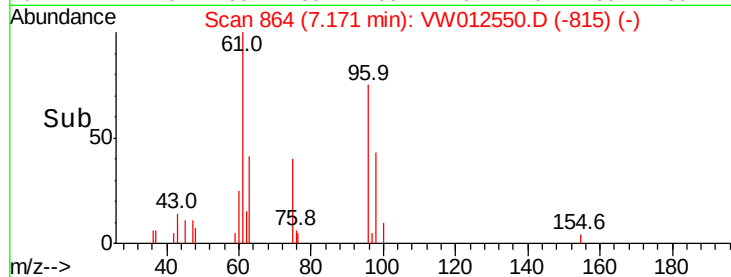
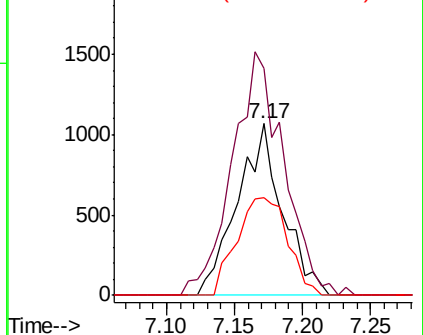


Abundance

Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

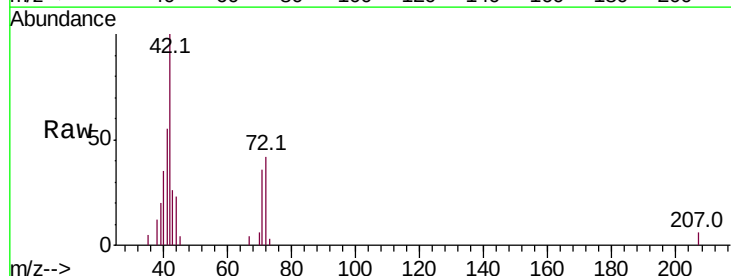
Ion 97.90 (97.60 to 98.60): VW



#29

Tetrahydrofuran
 Concen: 9.732 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012550.D
 Acq: 03 Sep 2019 16:47

Tgt Ion	Ratio	Lower	Upper
42	100		
72	34.7	27.3	40.9
71	31.9	25.5	38.3

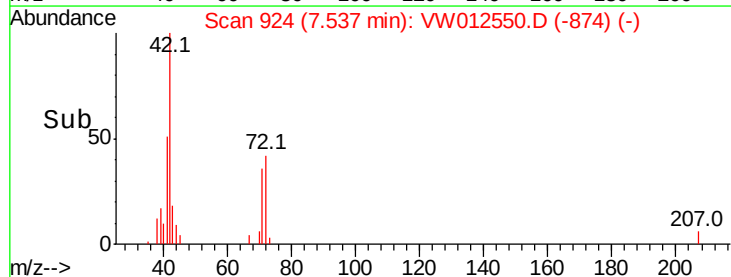
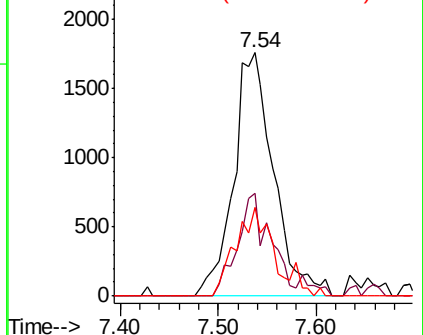


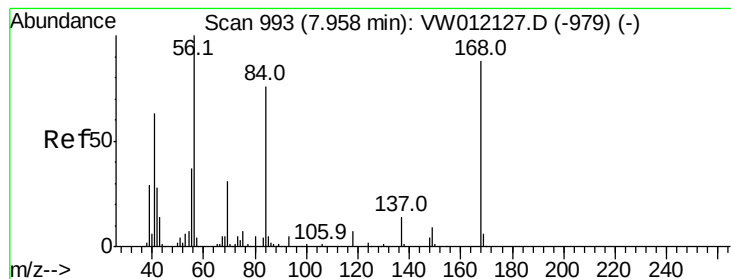
Abundance

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: 1.231 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :

MSVOA_W

ClientSampled :

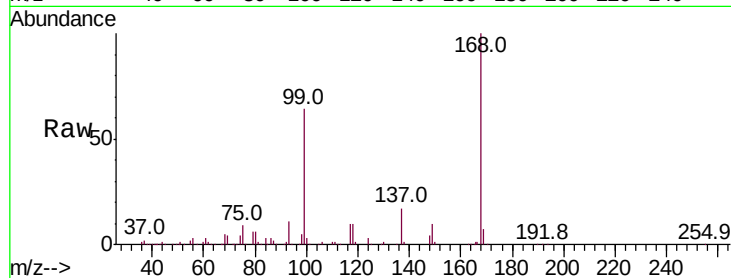
Tot Ion: 56 Resp: 5465

Ion Ratio Lower Upper

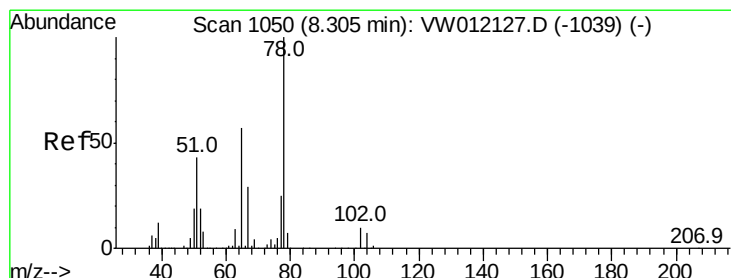
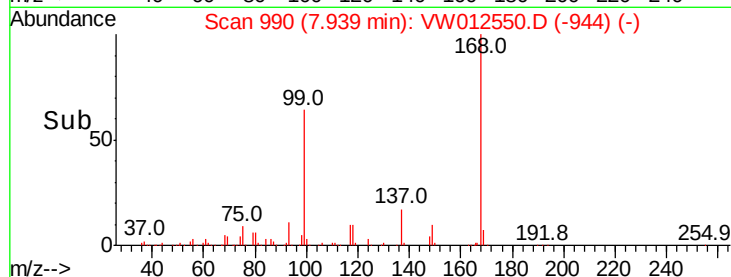
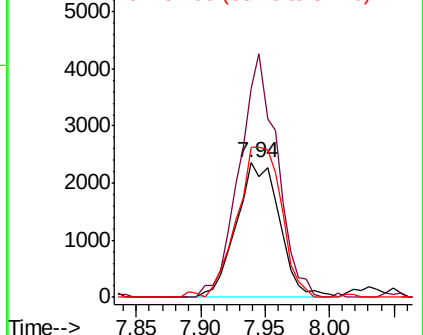
56 100

69 155.4 24.9 37.3#

84 111.8 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: 53.729 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012550.D

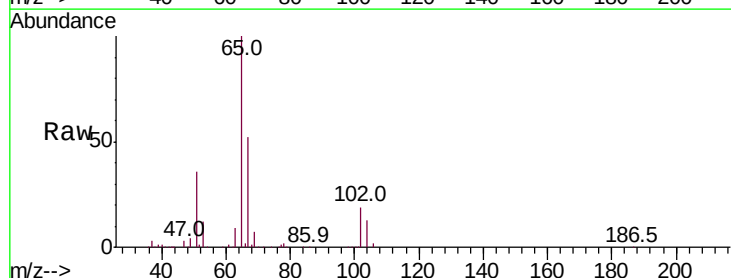
Acq: 03 Sep 2019 16:47

Tgt Ion: 65 Resp: 132458

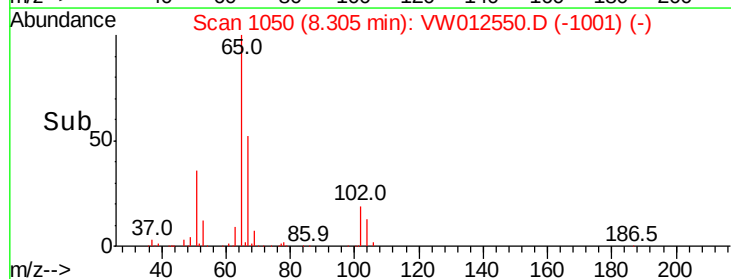
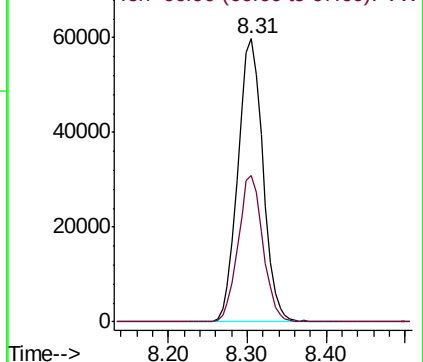
Ion Ratio Lower Upper

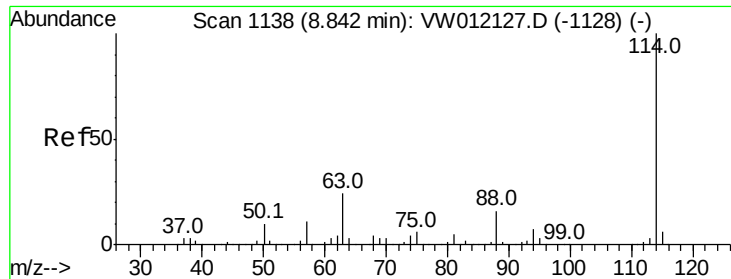
65 100

67 50.9 0.0 102.6



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

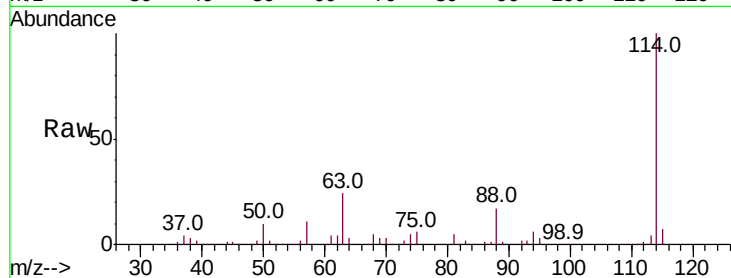




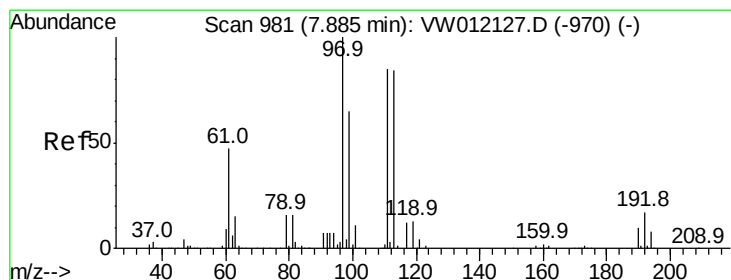
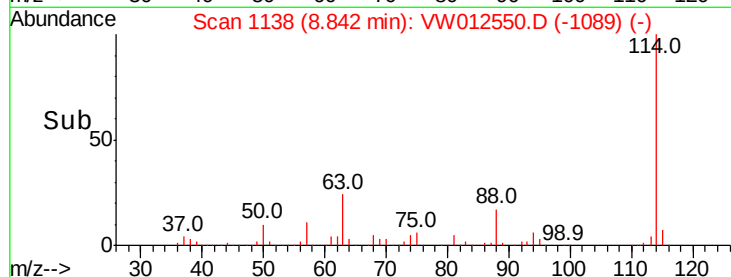
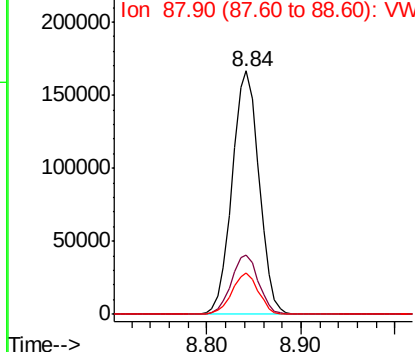
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012550.D
 Acq: 03 Sep 2019 16:47

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	48.6
88	17.0	0.0	32.2

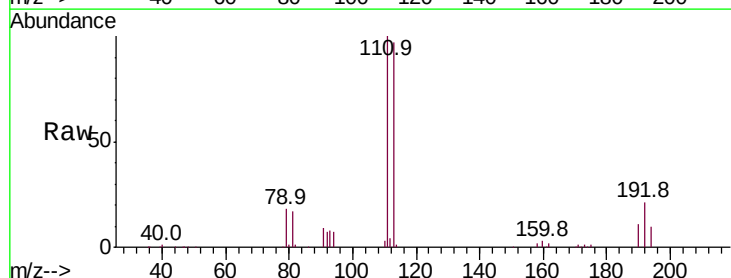


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

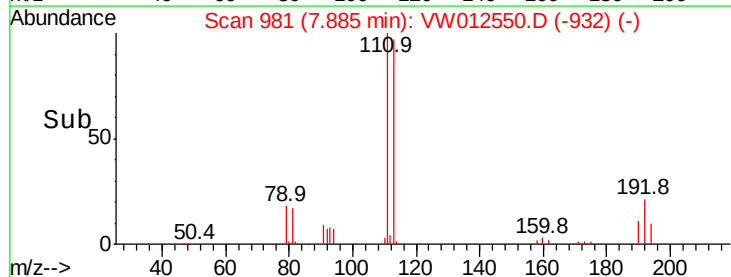
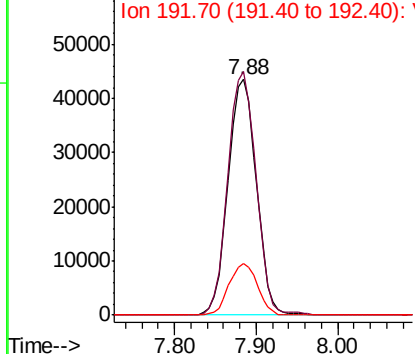


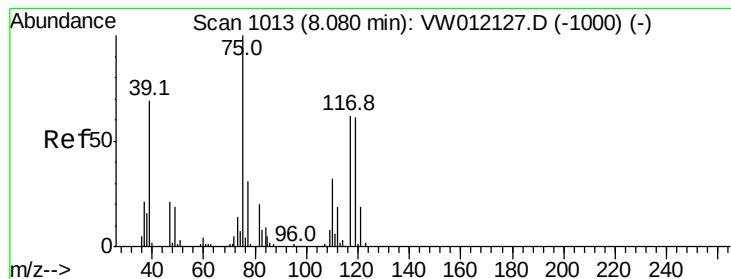
#35
 Dibromofluoromethane
 Concen: 52.637 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012550.D
 Acq: 03 Sep 2019 16:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.7	124.1
192	21.8	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: 5.144 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :
MSVOA_W
ClientSampled :

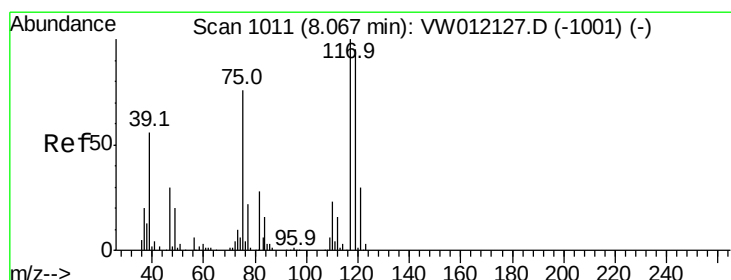
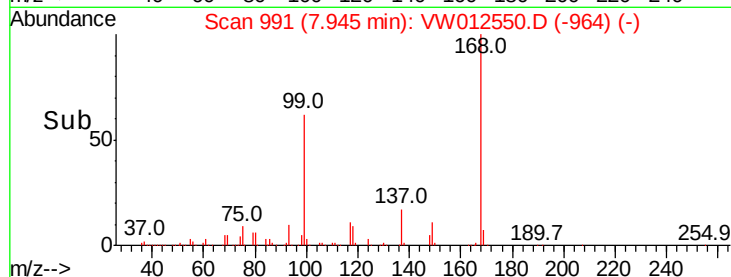
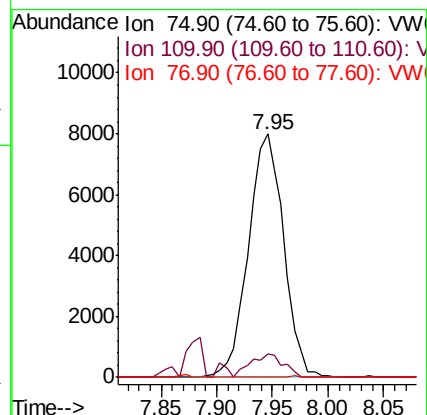
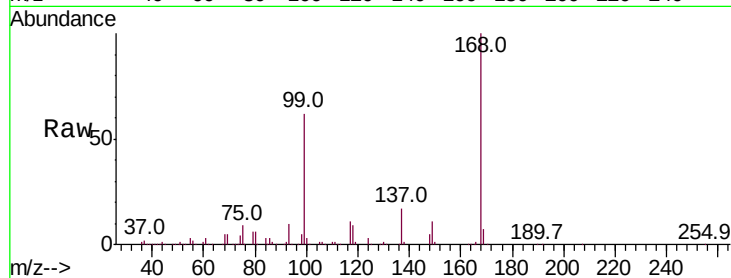
Tot Ion: 75 Resp: 17628

Ion Ratio Lower Upper

75 100

110 9.0 15.6 46.8#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 7.029 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

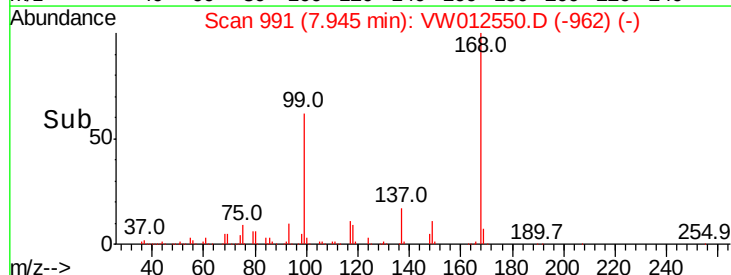
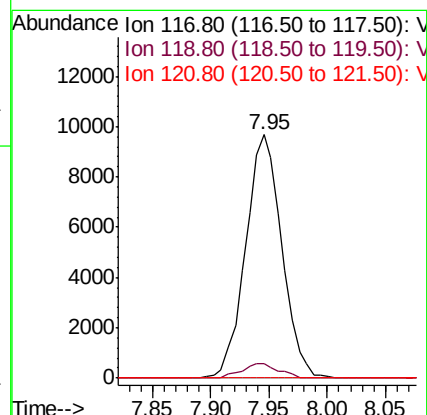
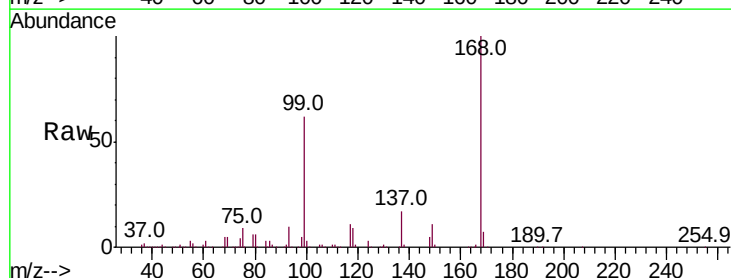
Tgt Ion: 117 Resp: 20850

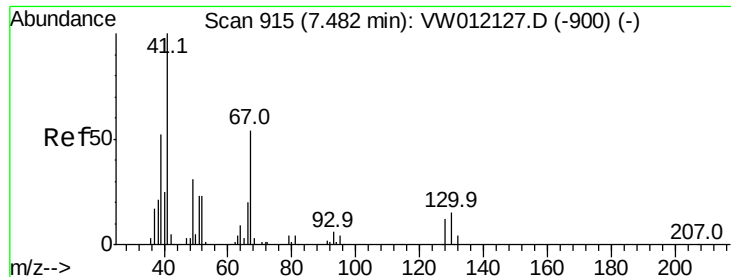
Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

121 0.0 23.8 35.8#

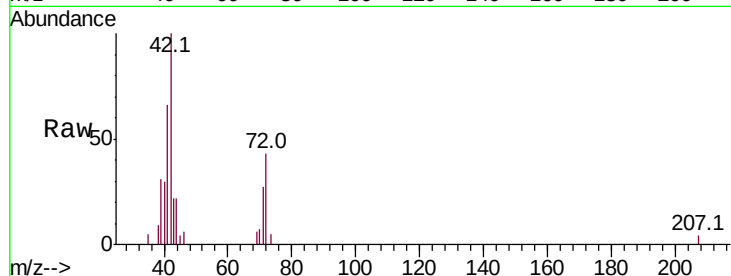




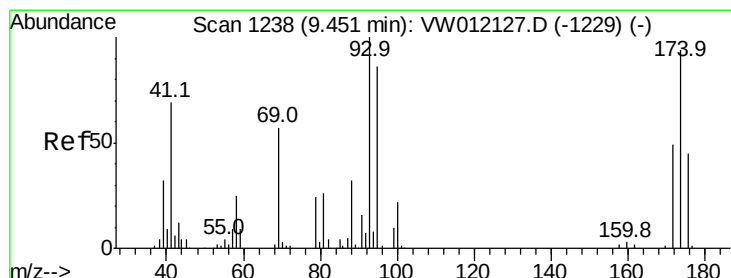
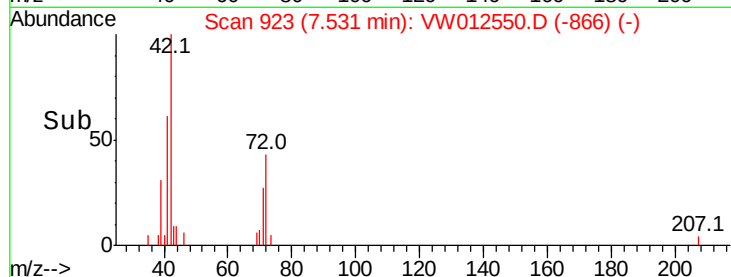
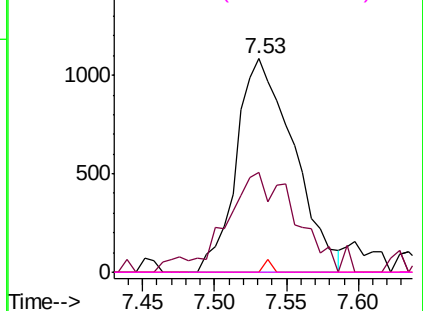
#41
Methacrylonitrile
Concen: 2.723 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW012550.D
Acq: 03 Sep 2019 16:47

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	41	Resp:	3005
Ion	Ratio	Lower	Upper
41	100		
39	55.7	45.8	68.8
67	0.8	46.2	69.4#
52	0.0	21.0	31.6#

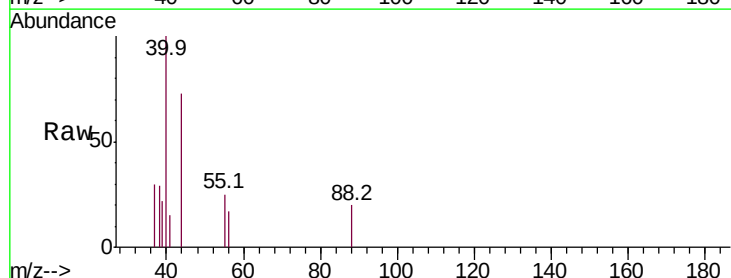


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

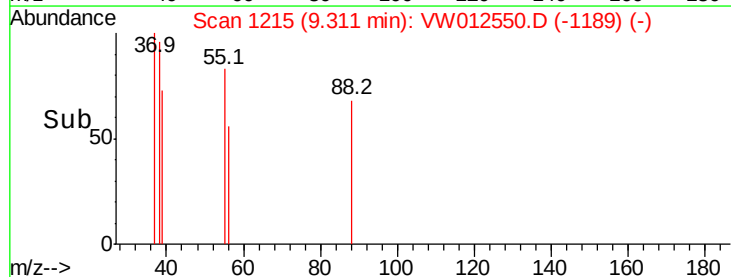
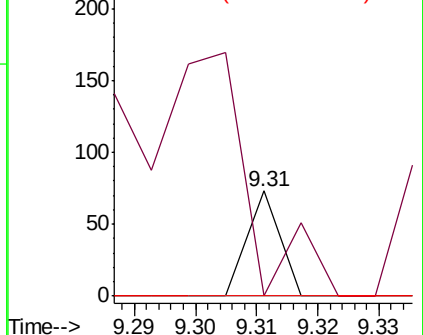


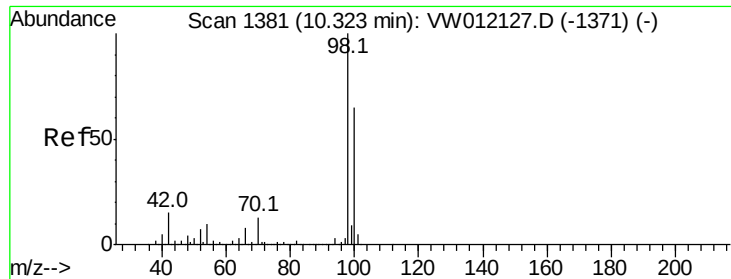
#49
1,4-Dioxane
Concen: 1.574 ug/l
RT: 9.31 min Scan# 1215
Delta R.T. -0.14 min
Lab File: VW012550.D
Acq: 03 Sep 2019 16:47

Tgt Ion:	88	Resp:	27
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

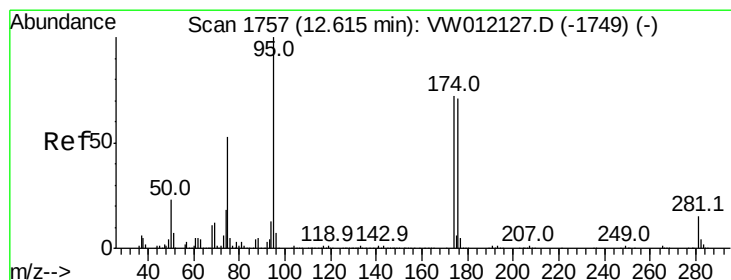
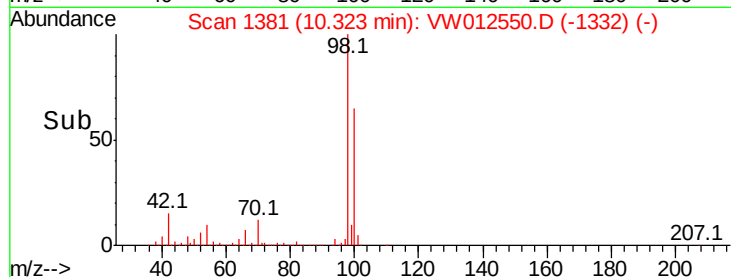
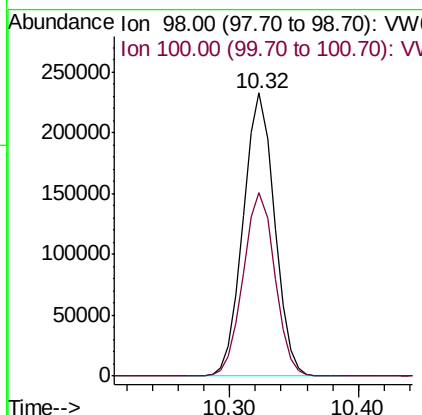
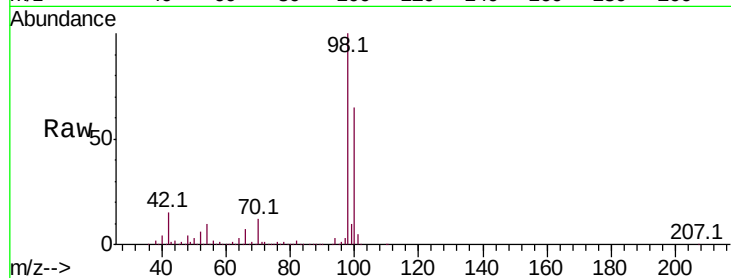




#50
Toluene-d8
Concen: 48.786 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012550.D
Acq: 03 Sep 2019 16:47

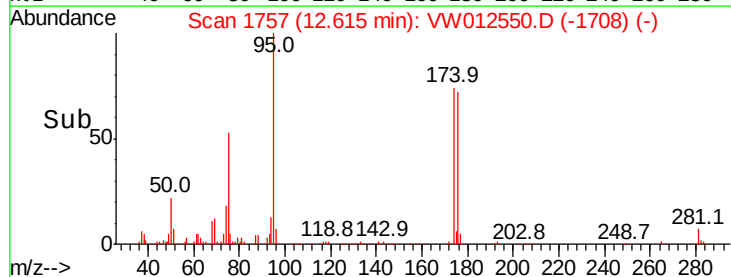
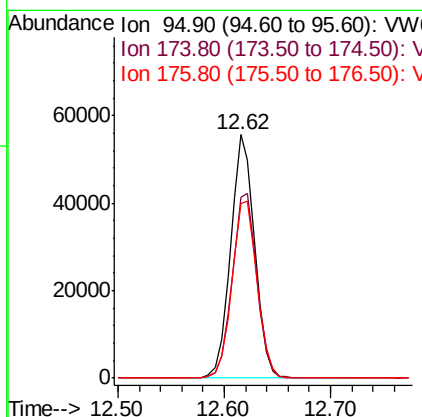
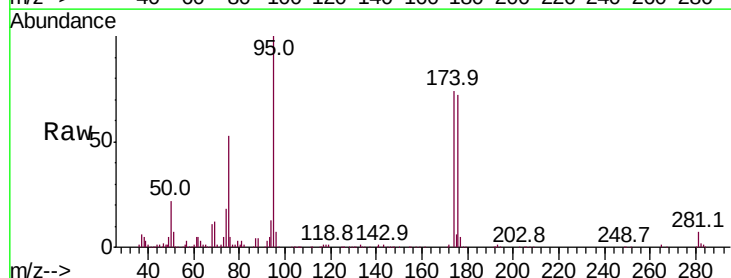
Instrument :
MSVOA_W
ClientSampled :

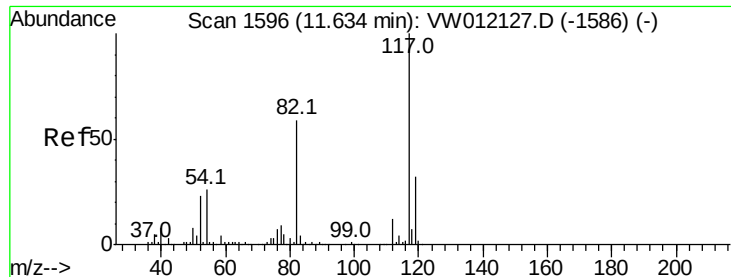
Tot Ion: 98 Resp: 391568
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 31.025 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012550.D
Acq: 03 Sep 2019 16:47

Tgt Ion: 95 Resp: 87777
Ion Ratio Lower Upper
95 100
174 78.0 0.0 150.8
176 76.3 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: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :

MSVOA_W

ClientSampleId :

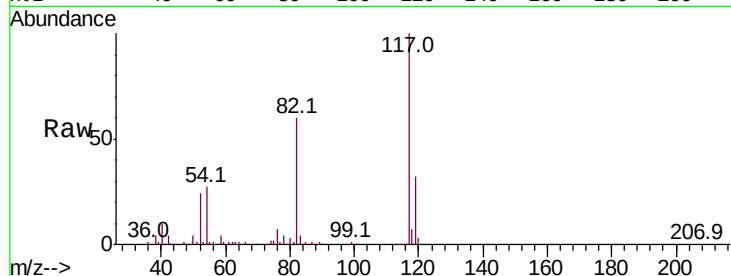
Tot Ion:117 Resp: 233002

Ion Ratio Lower Upper

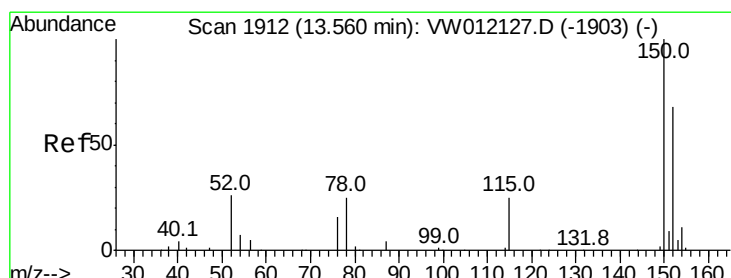
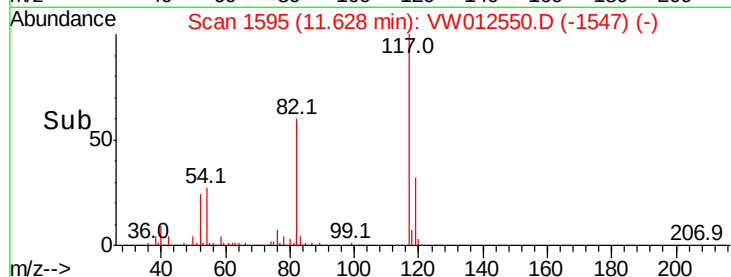
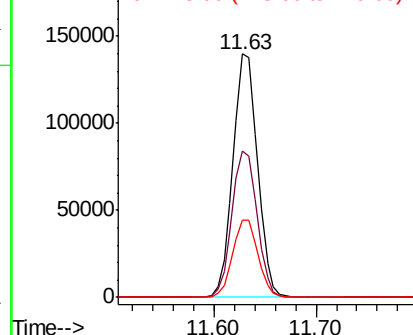
117 100

82 60.1 47.4 71.2

119 31.9 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: VW012550.D

Acq: 03 Sep 2019 16:47

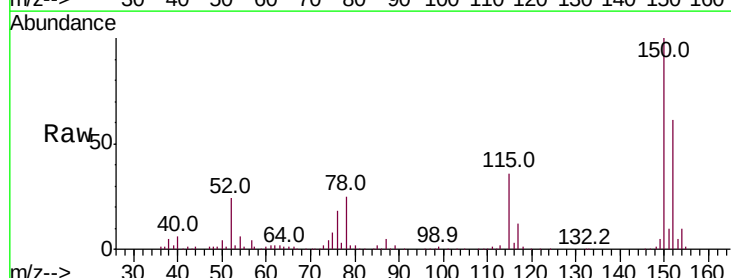
Tgt Ion:152 Resp: 58012

Ion Ratio Lower Upper

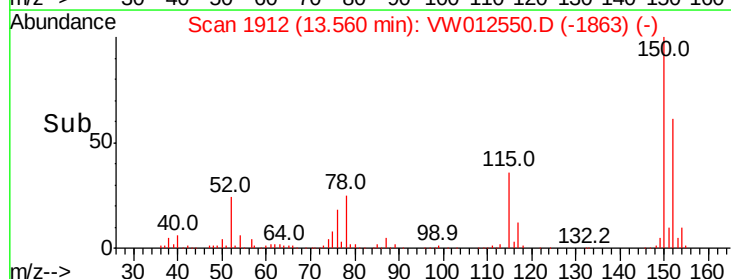
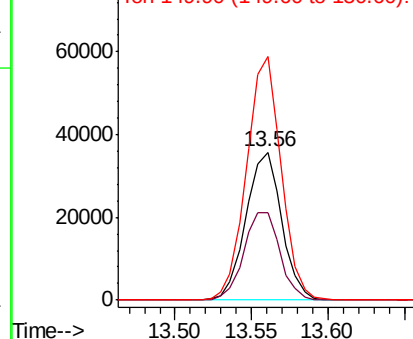
152 100

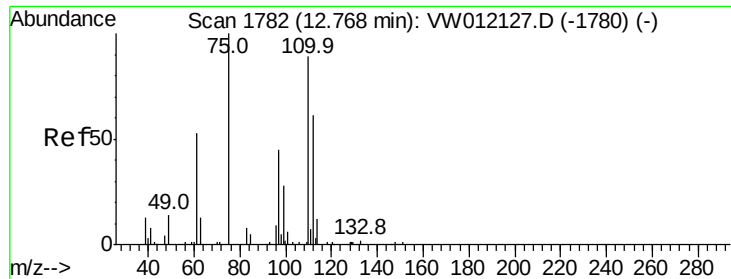
115 60.1 30.1 90.3

150 159.1 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: 84.753 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :

MSVOA_W

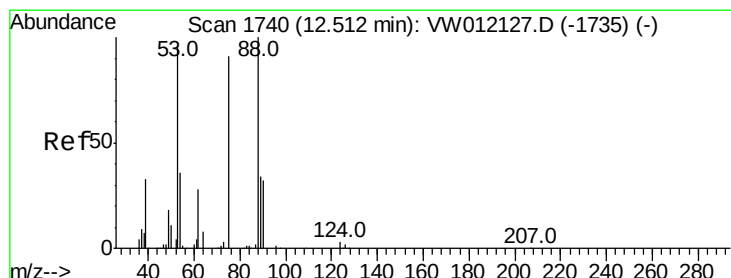
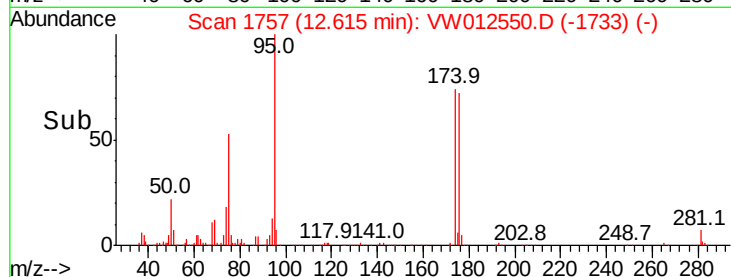
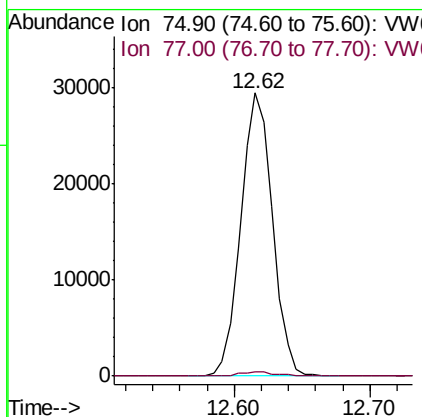
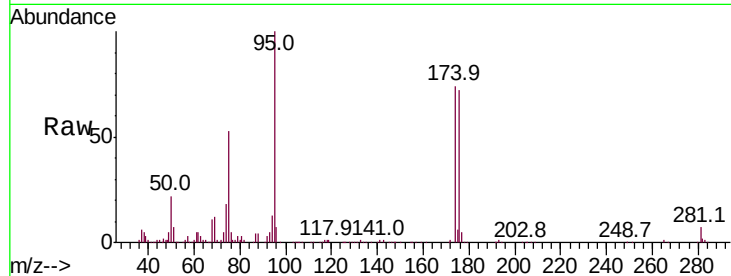
ClientSampleId :

Tot Ion: 75 Resp: 47885

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 185.824 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

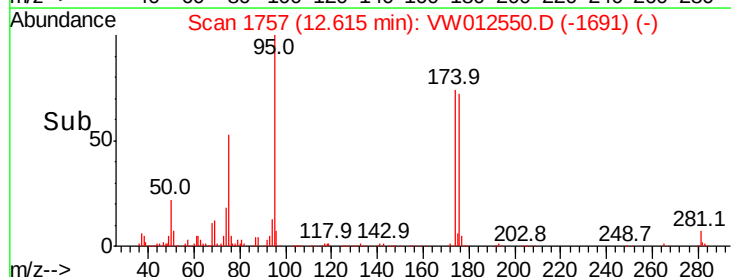
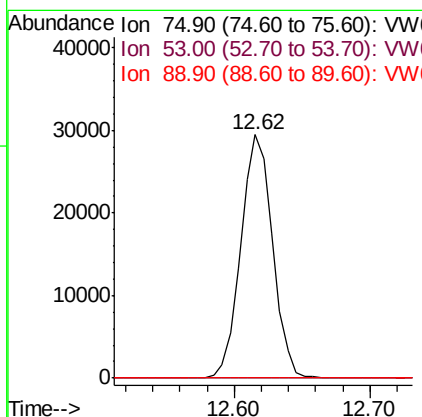
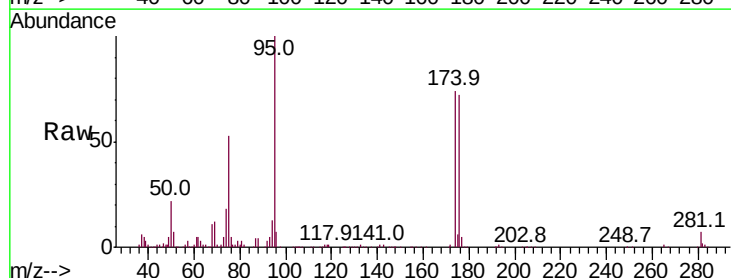
Tgt Ion: 75 Resp: 47885

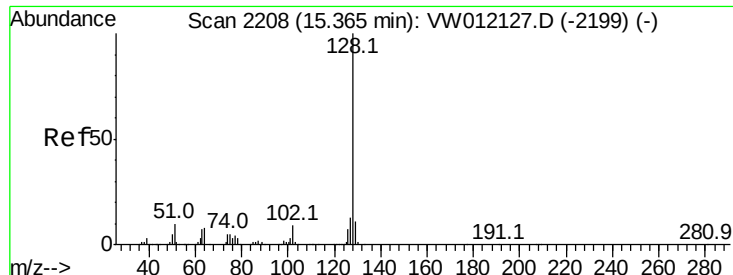
Ion Ratio Lower Upper

75 100

53 0.3 89.4 134.0#

89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.507 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

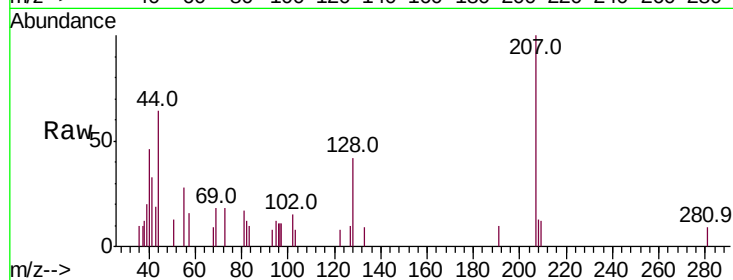
Lab File: VW012550.D

Acq: 03 Sep 2019 16:47

Instrument :

MSVOA_W

ClientSampleId :



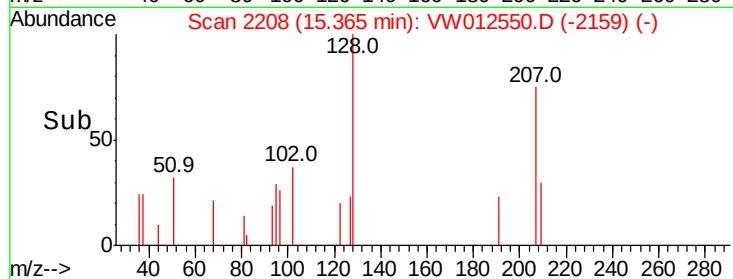
Tot Ion:128 Resp: 446

Ion Ratio Lower Upper

128 100

127 9.6 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

