

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090319\
 Data File : VW012552.D
 Acq On : 03 Sep 2019 17:39
 Operator : SY/VA
 Sample : K4560-02
 Misc : 7.23G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 03 18:12:12 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	245604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	400942	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	334546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	135141	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	156896	53.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.48%	
35) Dibromofluoromethane	7.88	113	121072	50.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.18%	
50) Toluene-d8	10.32	98	488366	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
62) 4-Bromofluorobenzene	12.62	95	155915	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	

Target Compounds

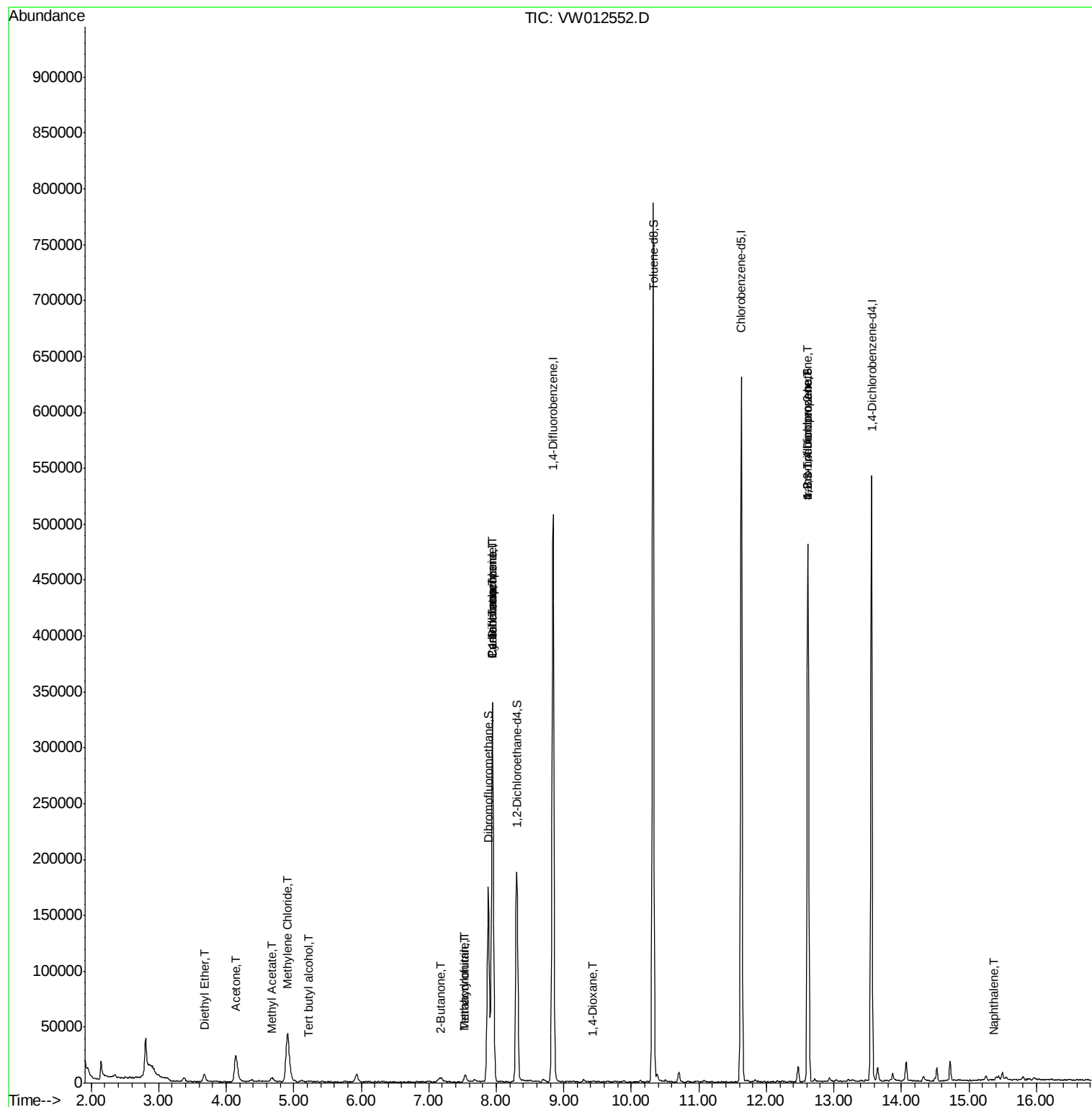
					Qvalue	
8) Diethyl Ether	3.67	74	3517	2.573	ug/l	97
11) Tert butyl alcohol	5.23	59	612	3.483	ug/l #	79
16) Acetone	4.14	43	52500	70.345	ug/l	99
18) Methyl Acetate	4.68	43	8950	4.842	ug/l	98
20) Methylene Chloride	4.91	84	34855	12.354	ug/l	97
25) 2-Butanone	7.18	43	5530	5.453	ug/l	100
29) Tetrahydrofuran	7.53	42	5077	8.344	ug/l	92
31) Cyclohexane	7.95	56	6195	1.178	ug/l #	6
36) 1,1-Dichloropropene	7.95	75	20583	4.968	ug/l #	51
38) Carbon Tetrachloride	7.95	117	25205	7.029	ug/l #	16
41) Methacrylonitrile	7.53	41	3643	2.730	ug/l #	57
49) 1,4-Dioxane	9.43	88	49	2.363	ug/l #	79
76) 1,2,3-Trichloropropane	12.62	75	84149	63.934	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84149	140.179	ug/l #	6
95) Naphthalene	15.36	128	338	4.382	ug/l	95

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090319\
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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: VW012552.D

Acq: 03 Sep 2019 17:39

Instrument :

MSVOA_W

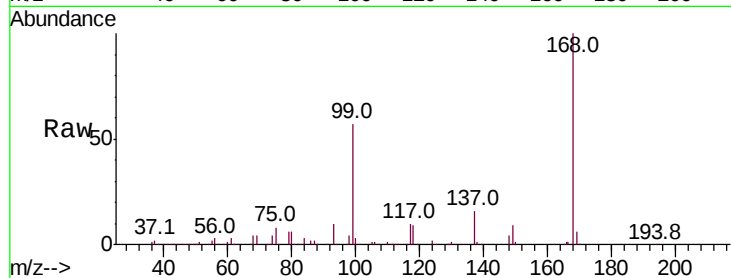
ClientSampled :

Tot Ion:168 Resp: 245604

Ion Ratio Lower Upper

168 100

99 56.9 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

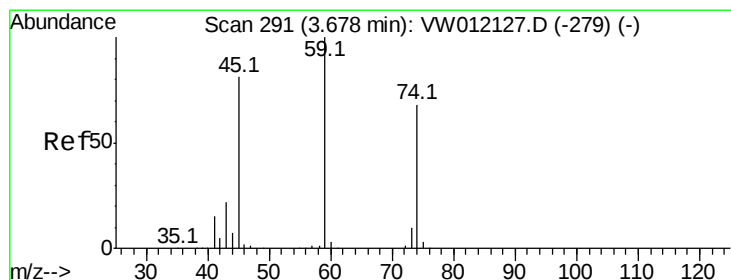
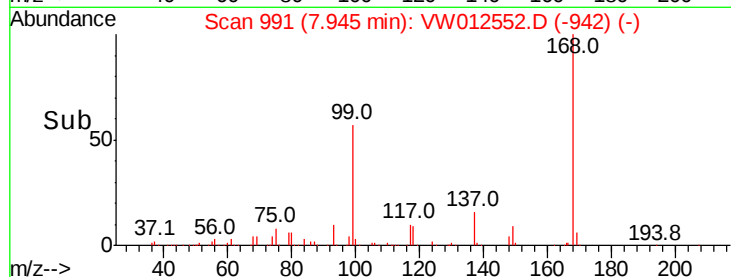
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 2.573 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012552.D

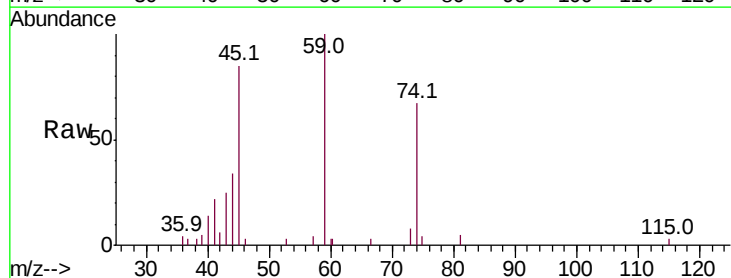
Acq: 03 Sep 2019 17:39

Tgt Ion: 74 Resp: 3517

Ion Ratio Lower Upper

74 100

45 121.7 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

2000

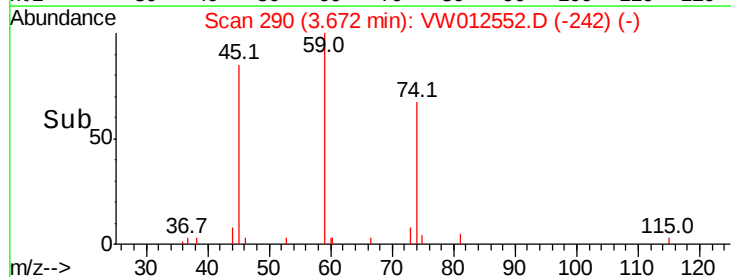
1500

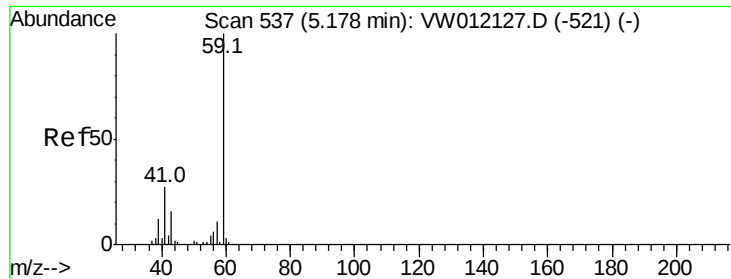
1000

500

0

Time--> 3.60 3.65 3.70 3.75

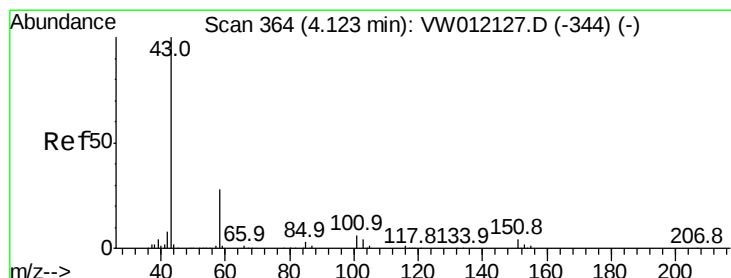
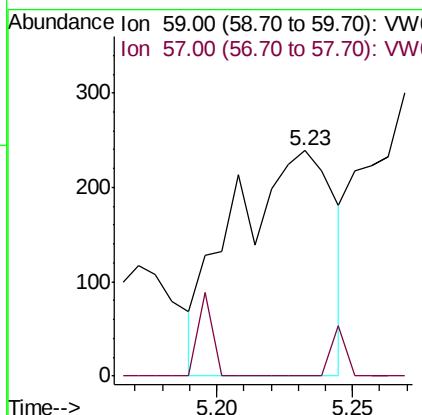
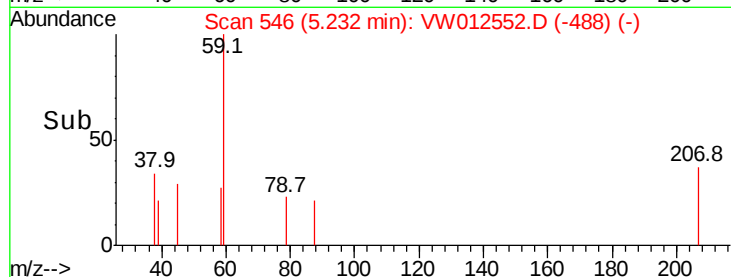
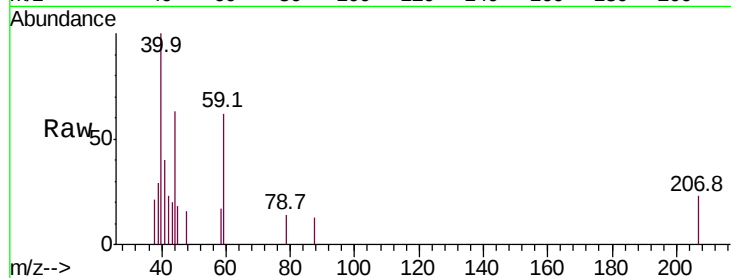




#11
Tert butyl alcohol
Concen: 3.483 ug/l
RT: 5.23 min Scan# 546
Delta R.T. 0.05 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

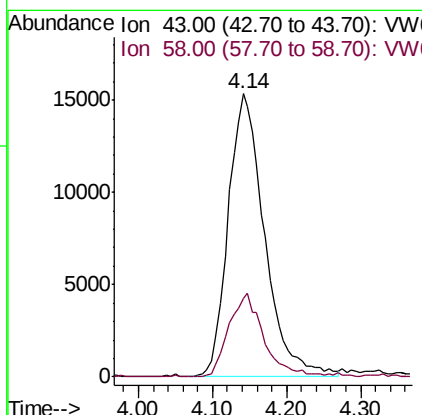
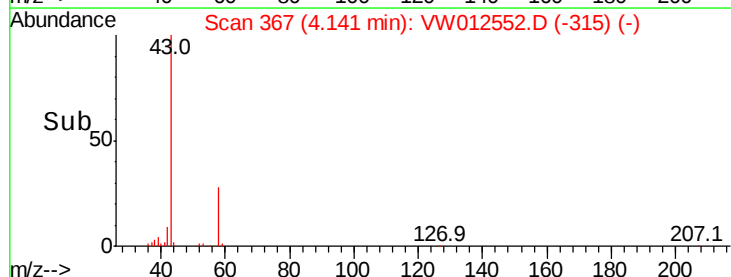
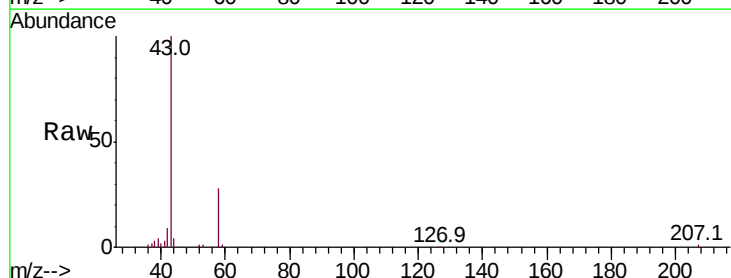
Instrument :
MSVOA_W
ClientSampled :

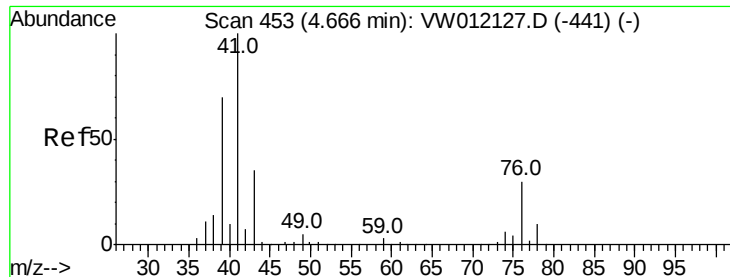
Tot Ion: 59 Resp: 612
Ion Ratio Lower Upper
59 100
57 3.1 9.0 13.4#



#16
Acetone
Concen: 70.345 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.02 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

Tgt Ion: 43 Resp: 52500
Ion Ratio Lower Upper
43 100
58 27.7 22.4 33.6





#18

Methyl Acetate

Concen: 4.842 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

Instrument :

MSVOA_W

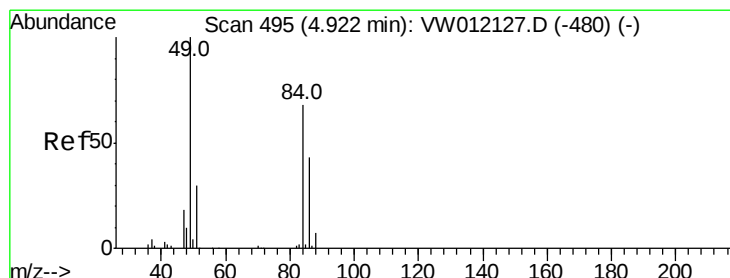
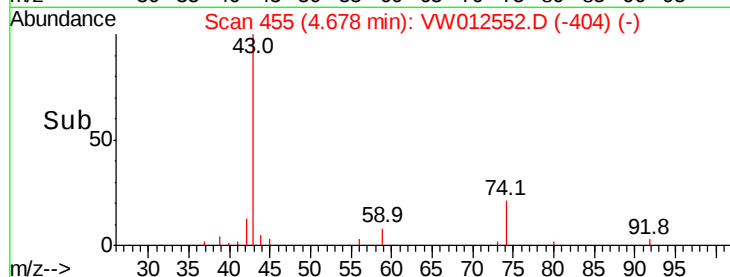
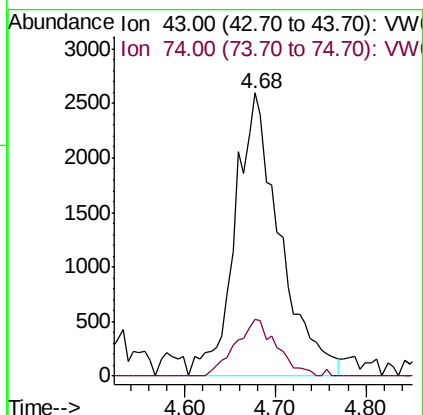
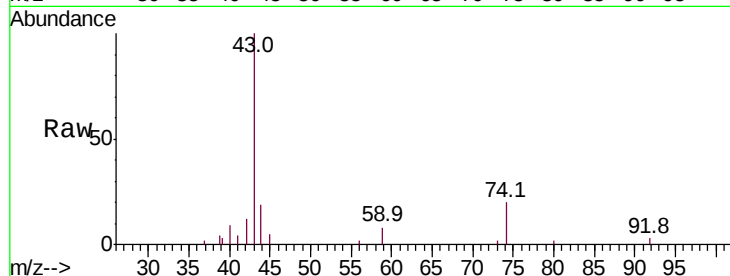
ClientSampled :

Tot Ion: 43 Resp: 8950

Ion Ratio Lower Upper

43 100

74 18.5 15.7 23.5



#20

Methylene Chloride

Concen: 12.354 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

Tgt Ion: 84 Resp: 34855

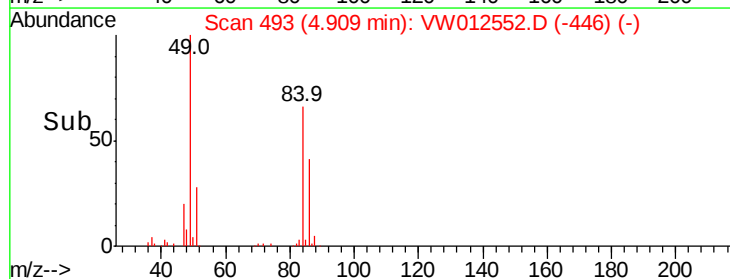
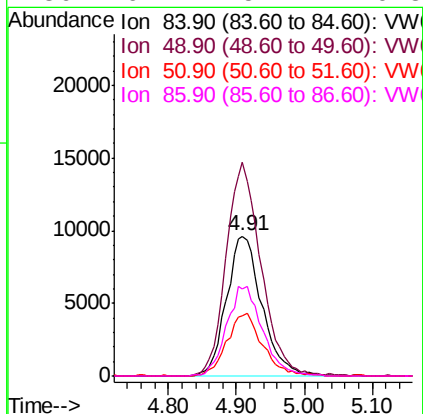
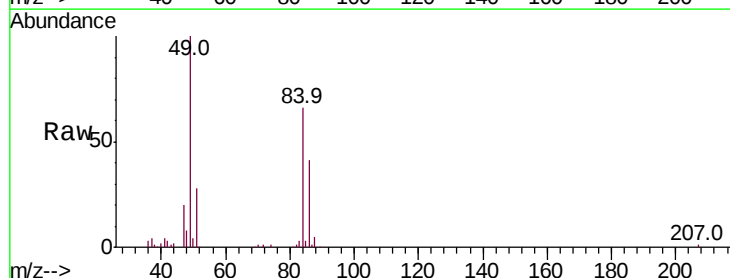
Ion Ratio Lower Upper

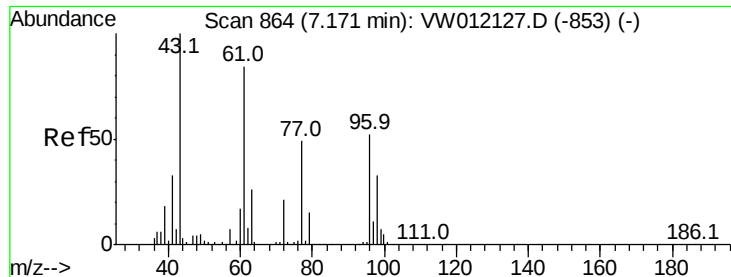
84 100

49 152.6 117.8 176.8

51 43.3 35.6 53.4

86 62.4 51.2 76.8





#25

2-Butanone

Concen: 5.453 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

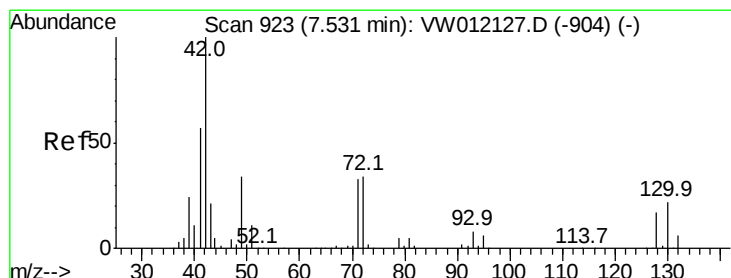
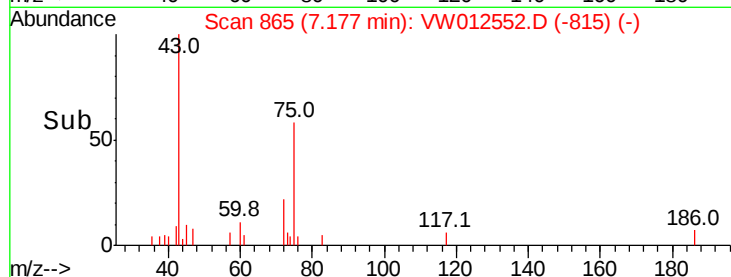
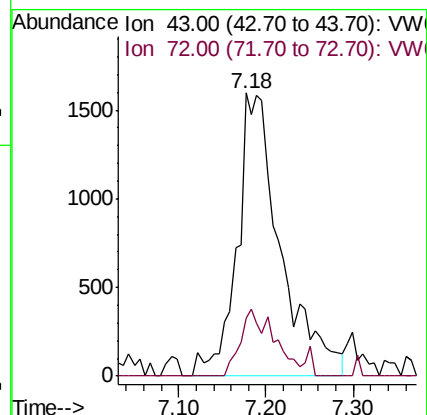
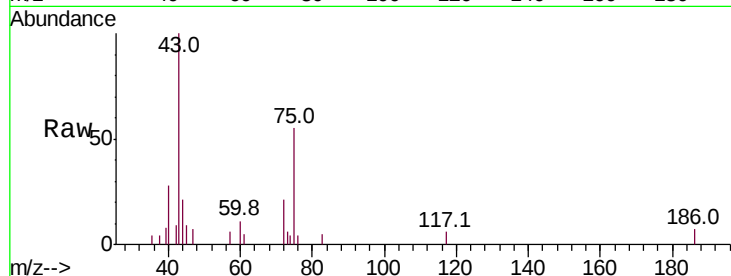
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 5530

Ion Ratio Lower Upper

43 100

72 20.5 16.6 24.8



#29

Tetrahydrofuran

Concen: 8.344 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

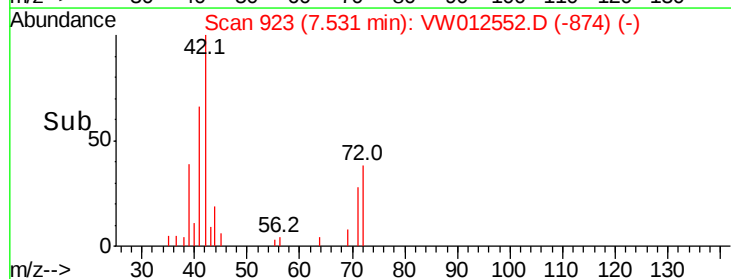
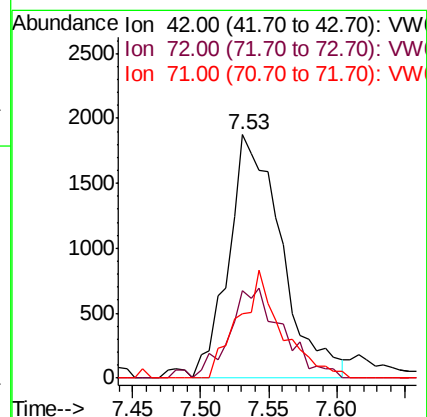
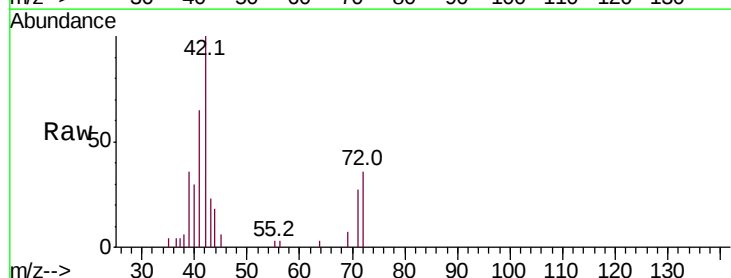
Tgt Ion: 42 Resp: 5077

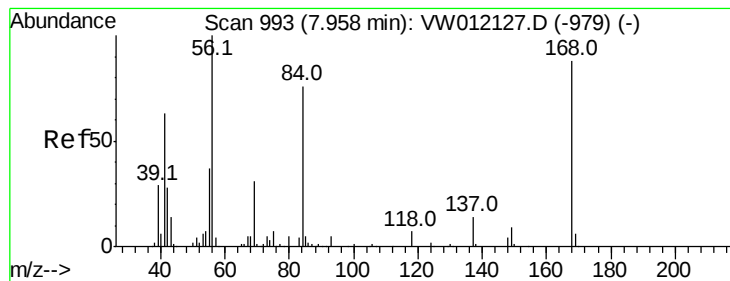
Ion Ratio Lower Upper

42 100

72 38.0 27.3 40.9

71 36.6 25.5 38.3





#31

Cyclohexane

Concen: 1.178 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

Instrument :
MSVOA_W
ClientSampled :

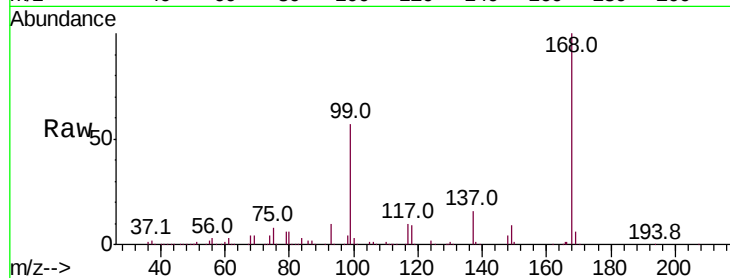
Tot Ion: 56 Resp: 6195

Ion Ratio Lower Upper

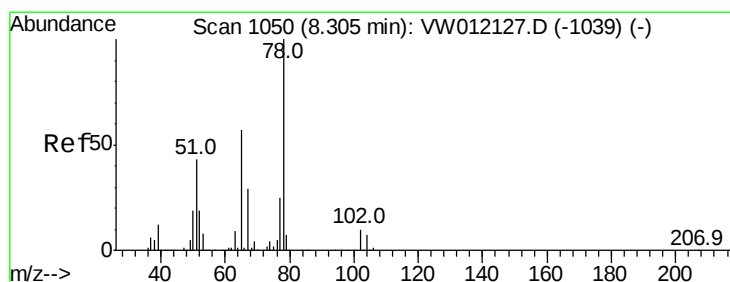
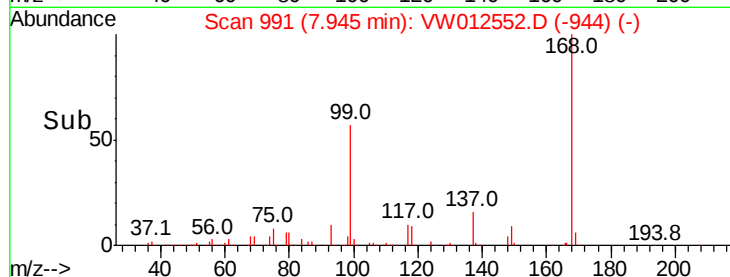
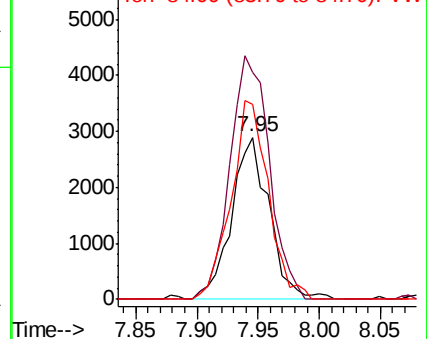
56 100

69 140.2 24.9 37.3#

84 120.1 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: 53.738 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012552.D

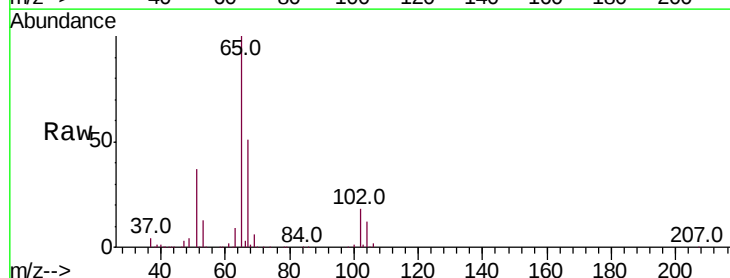
Acq: 03 Sep 2019 17:39

Tgt Ion: 65 Resp: 156896

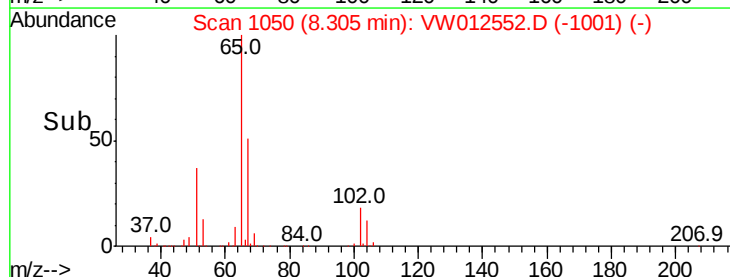
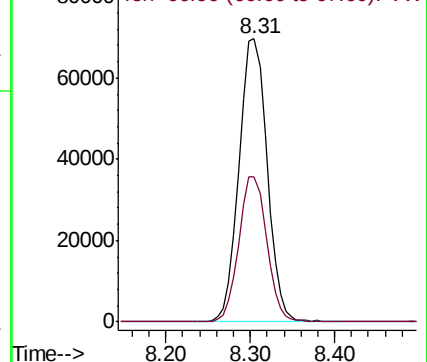
Ion Ratio Lower Upper

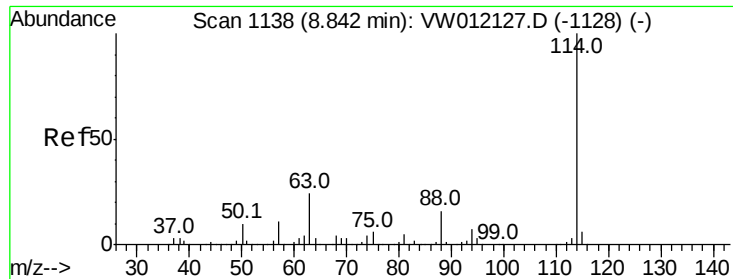
65 100

67 51.2 0.0 102.6



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

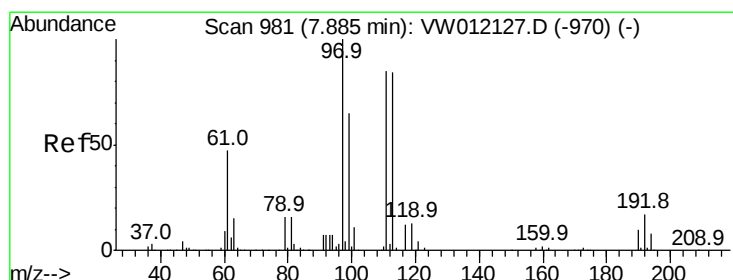
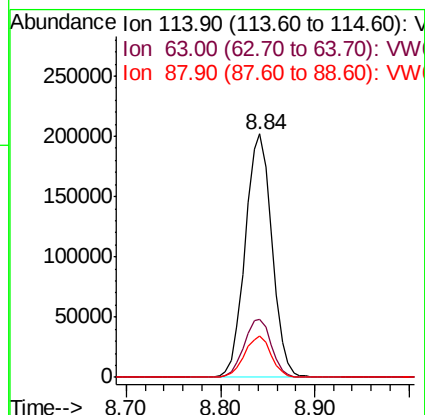
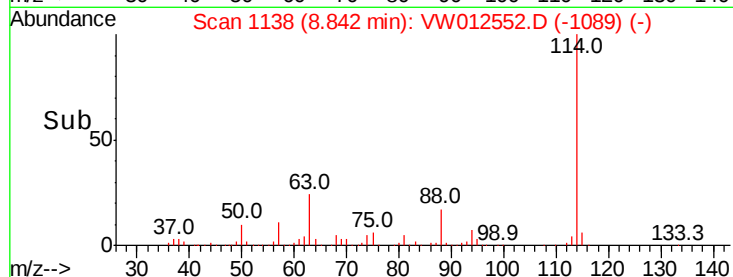
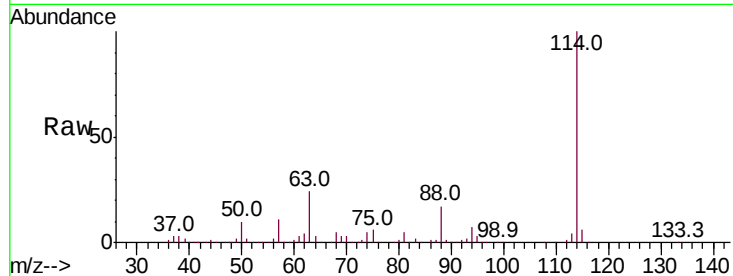




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012552.D
 Acq: 03 Sep 2019 17:39

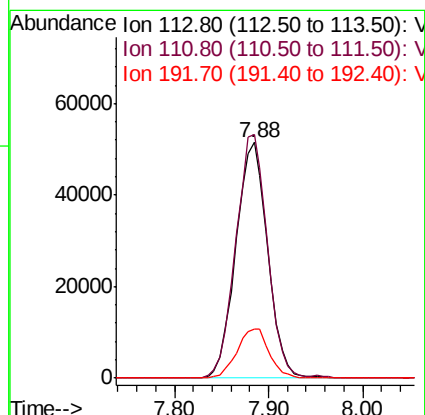
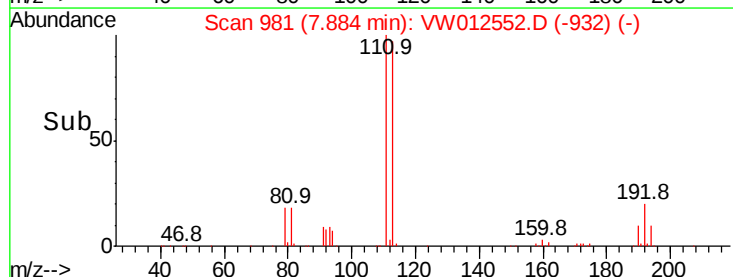
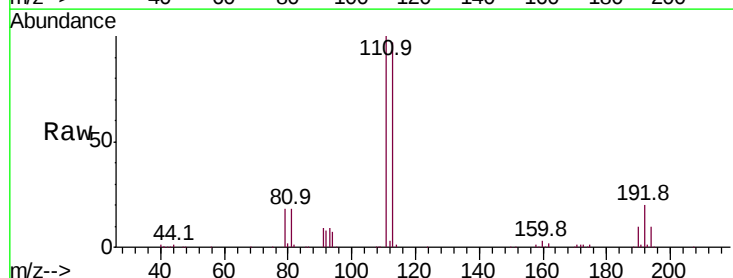
Instrument :
 MSVOA_W
 ClientSampled :

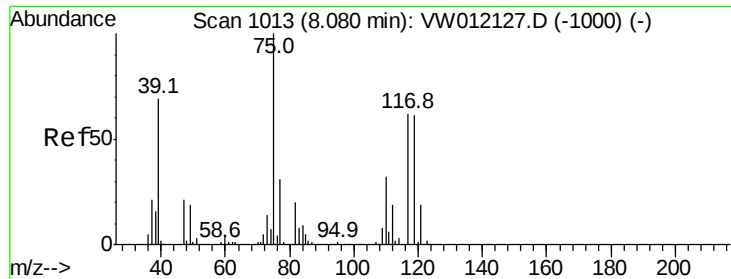
Tot Ion:114 Resp: 400942
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 48.6
 88 16.8 0.0 32.2



#35
 Dibromofluoromethane
 Concen: 50.589 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012552.D
 Acq: 03 Sep 2019 17:39

Tgt Ion:113 Resp: 121072
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.7 124.1
 192 21.1 16.2 24.2

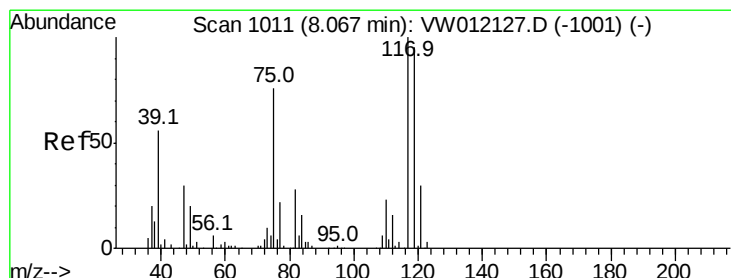
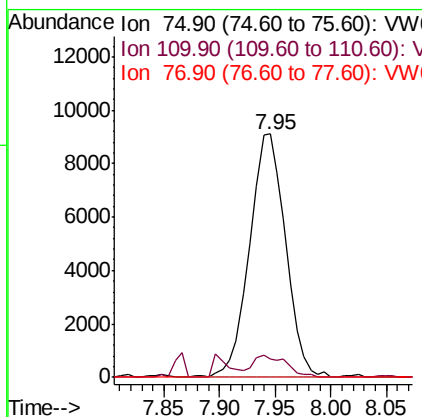
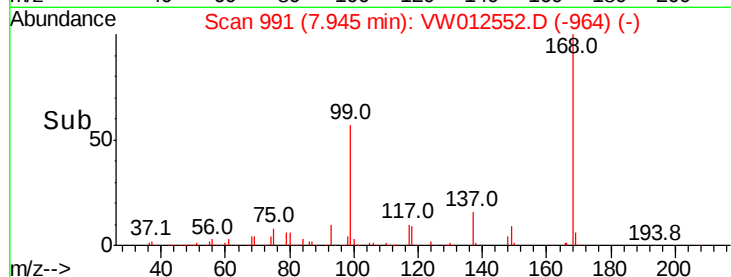
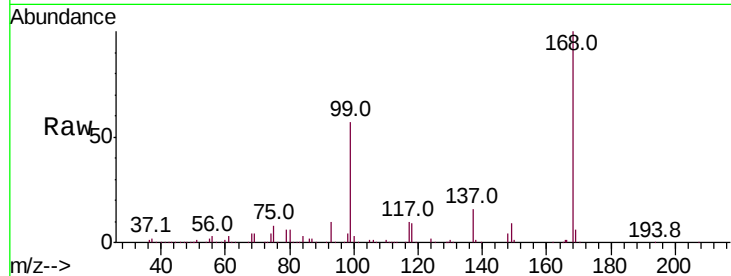




#36
 1,1-Dichloropropene
 Concen: 4.968 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012552.D
 Acq: 03 Sep 2019 17:39

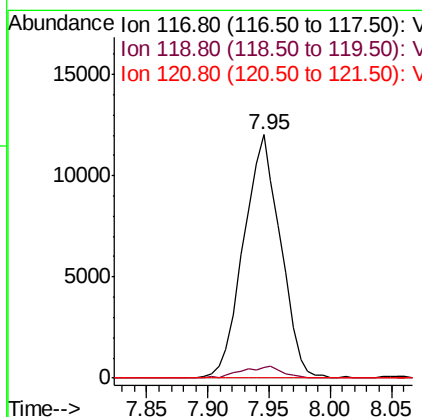
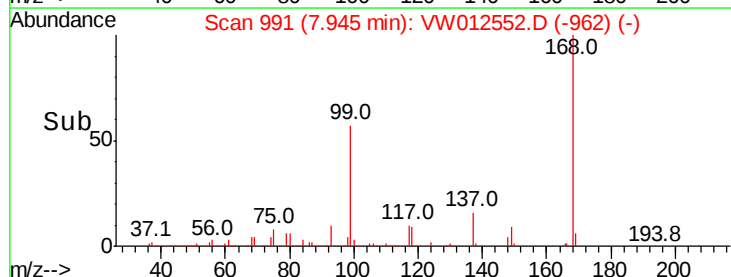
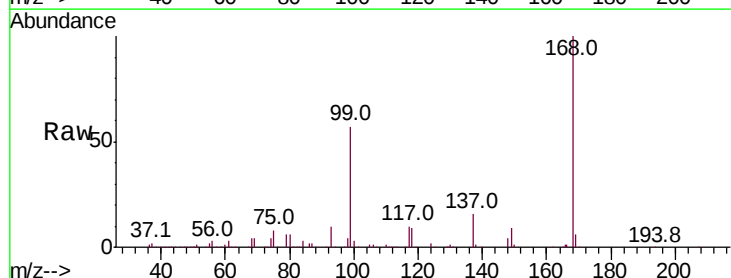
Instrument :
 MSVOA_W
 ClientSampleId :

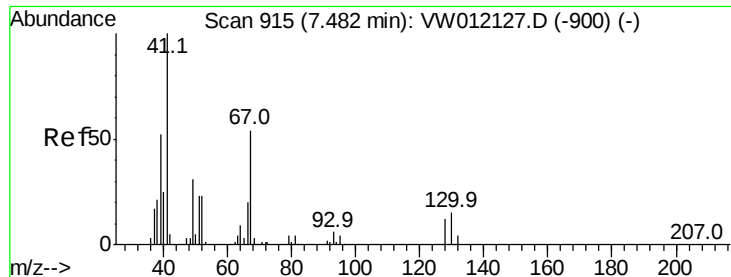
Tot Ion: 75 Resp: 20583
 Ion Ratio Lower Upper
 75 100
 110 8.4 15.6 46.8#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 7.029 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012552.D
 Acq: 03 Sep 2019 17:39

Tgt Ion: 117 Resp: 25205
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.2 114.2#
 121 0.0 23.8 35.8#

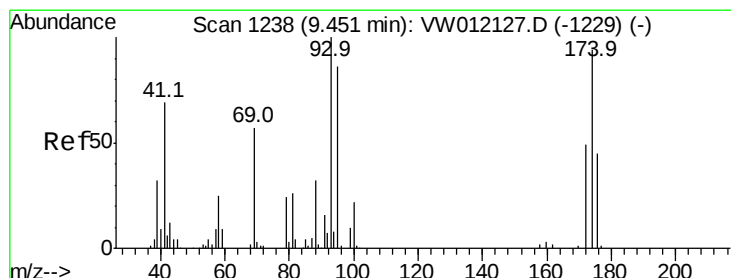
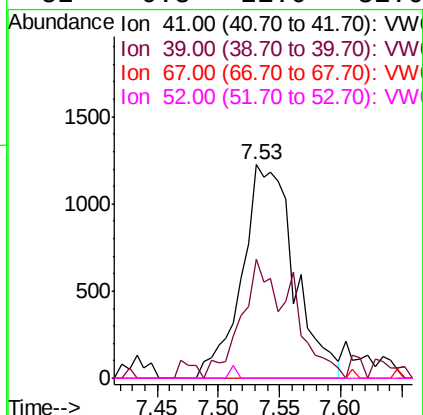
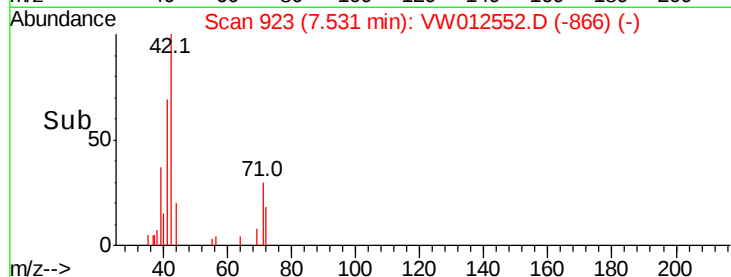
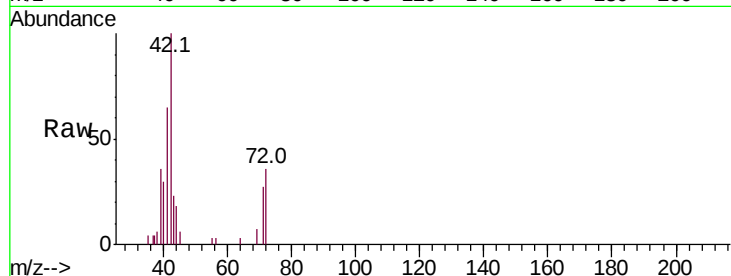




#41
Methacrylonitrile
Concen: 2.730 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

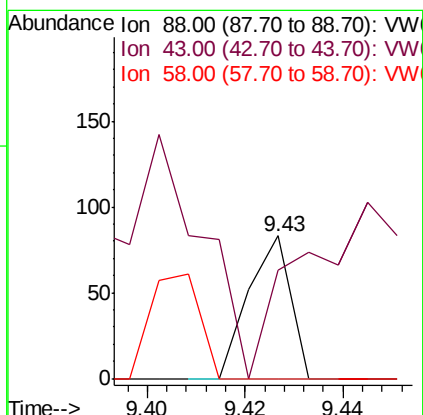
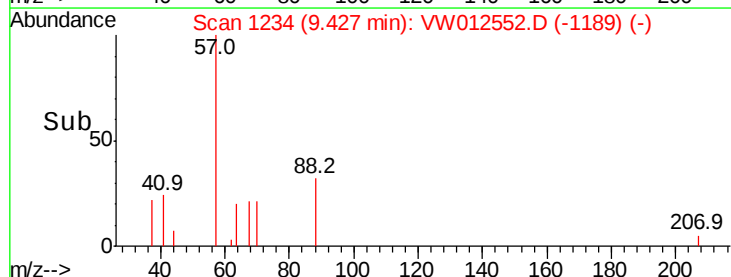
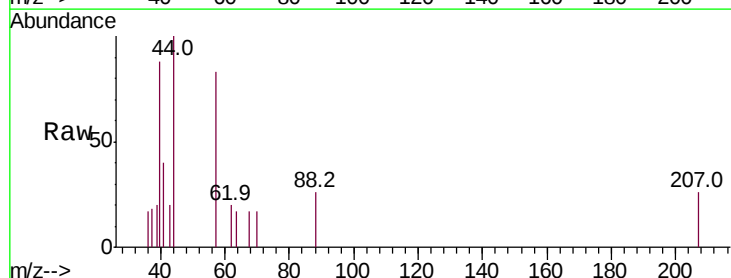
Instrument :
MSVOA_W
ClientSampleId :

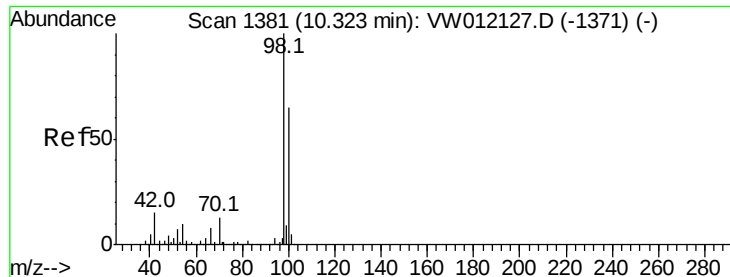
Tot Ion	Ratio	Lower	Upper
41	100		
39	54.2	45.8	68.8
67	0.0	46.2	69.4#
52	0.8	21.0	31.6#



#49
1,4-Dioxane
Concen: 2.363 ug/l
RT: 9.43 min Scan# 1234
Delta R.T. -0.02 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	32.9	49.3#
58	87.8	71.0	106.4

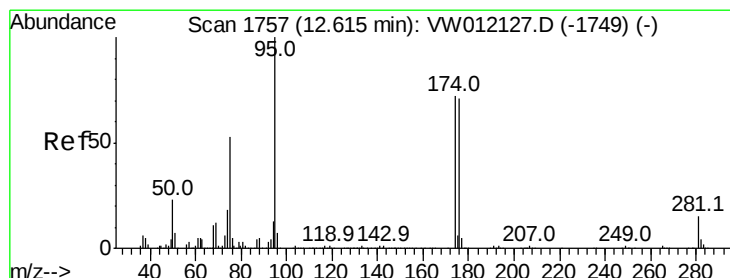
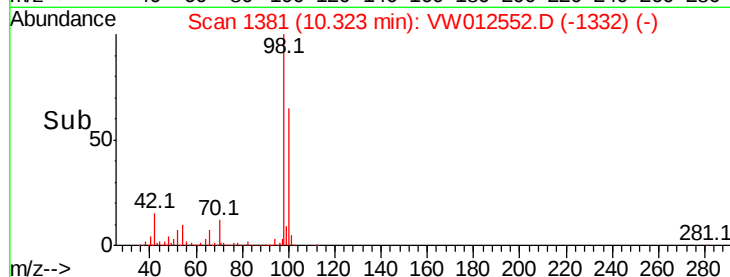
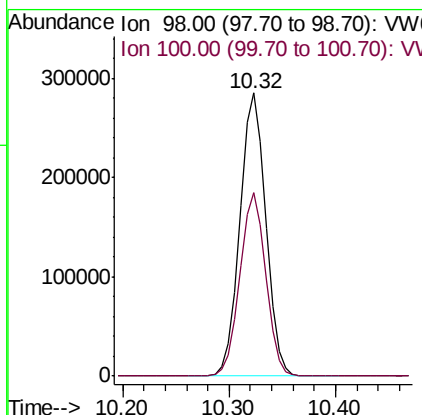
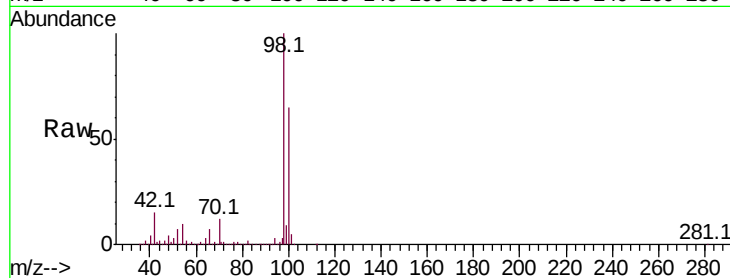




#50
Toluene-d8
Concen: 50.327 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

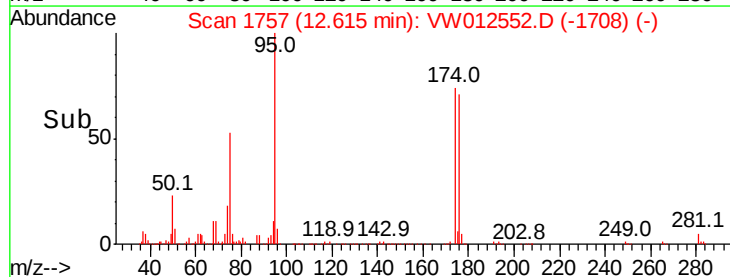
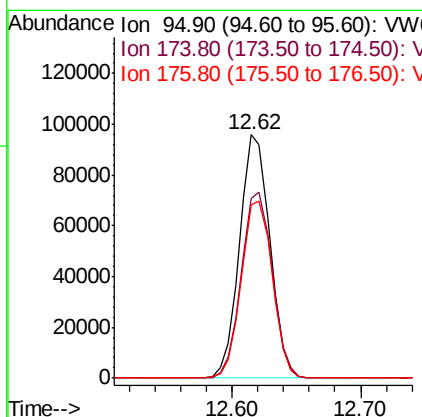
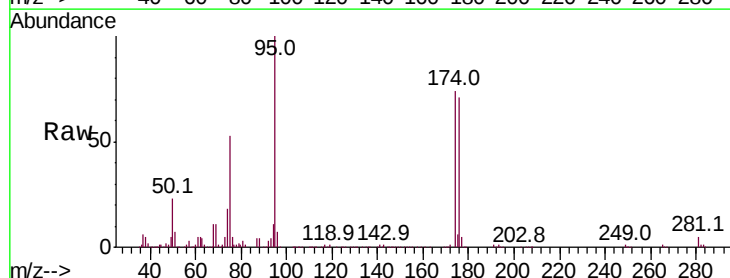
Instrument :
MSVOA_W
ClientSampleId :

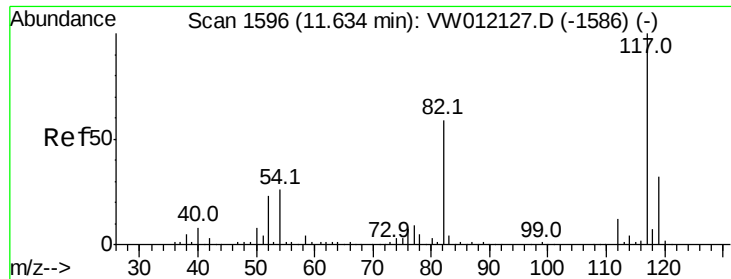
Tot Ion: 98 Resp: 488366
Ion Ratio Lower Upper
98 100
100 64.7 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 45.581 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

Tgt Ion: 95 Resp: 155915
Ion Ratio Lower Upper
95 100
174 78.3 0.0 150.8
176 74.7 0.0 148.6

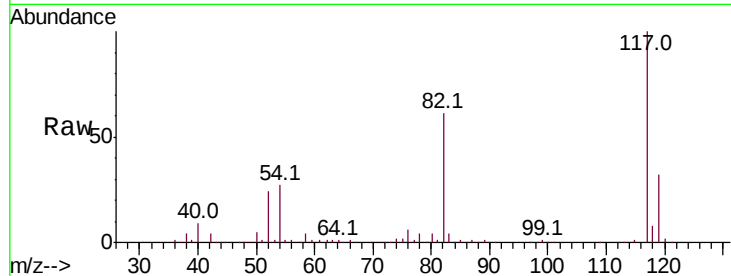




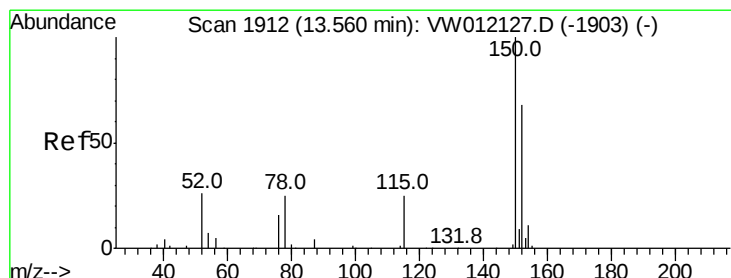
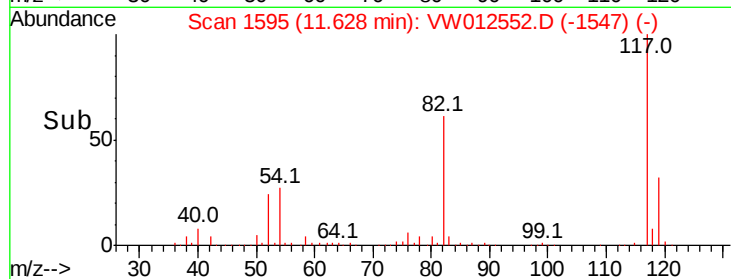
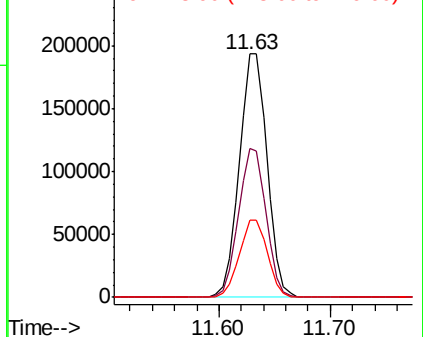
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 334546
Ion Ratio Lower Upper
117 100
82 61.2 47.4 71.2
119 31.7 25.4 38.2

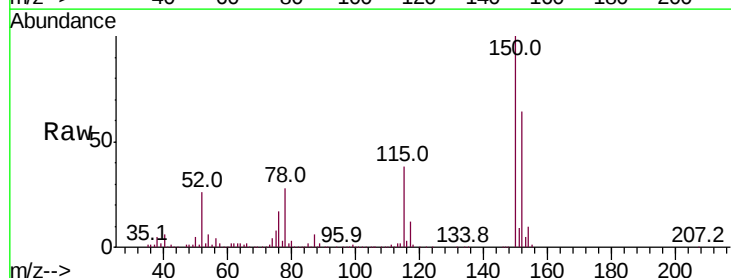


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

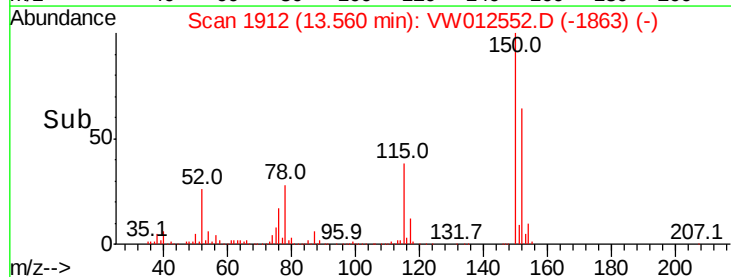
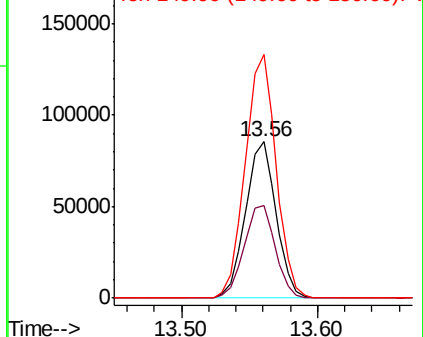


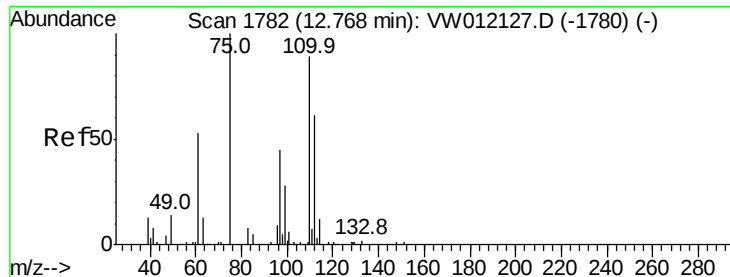
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012552.D
Acq: 03 Sep 2019 17:39

Tgt Ion:152 Resp: 135141
Ion Ratio Lower Upper
152 100
115 60.0 30.1 90.3
150 156.3 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: 63.934 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

Instrument :

MSVOA_W

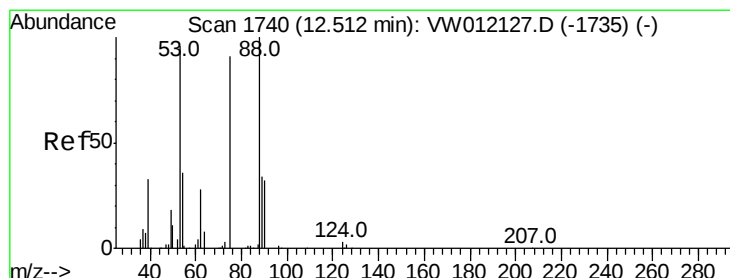
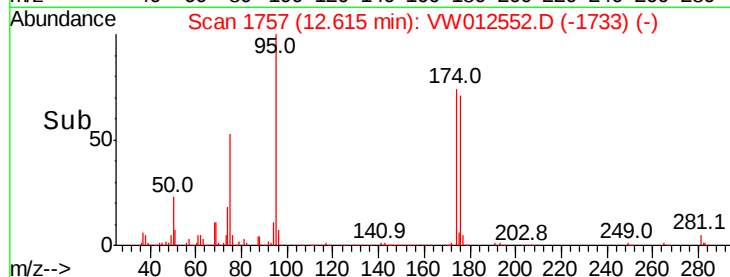
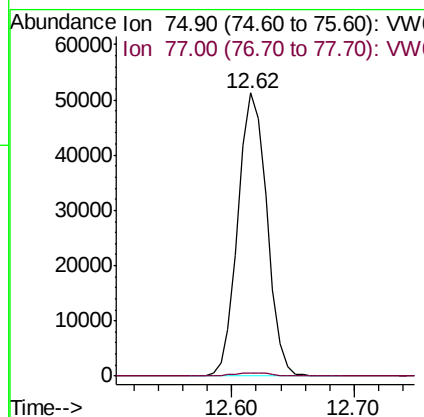
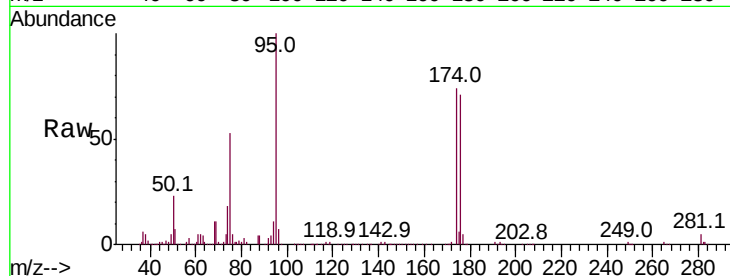
ClientSampled :

Tot Ion: 75 Resp: 84149

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 140.179 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

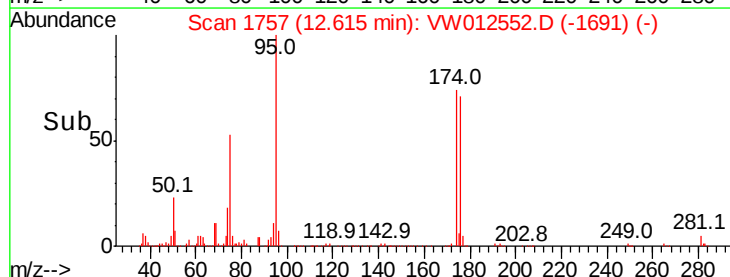
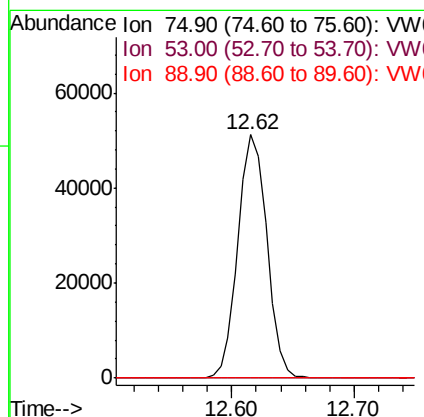
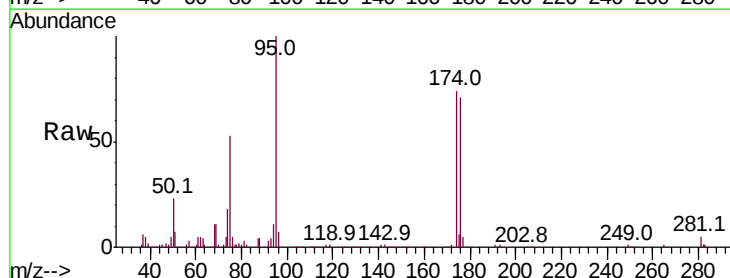
Tgt Ion: 75 Resp: 84149

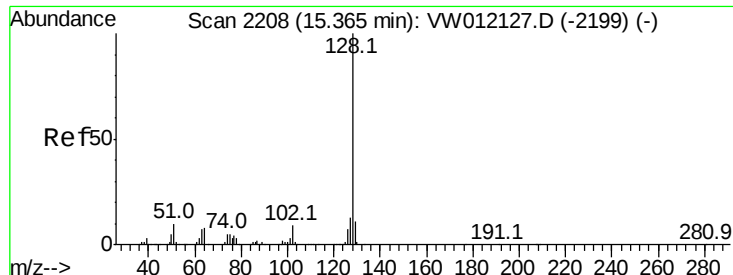
Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.382 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012552.D

Acq: 03 Sep 2019 17:39

Instrument :

MSVOA_W

ClientSampleId :

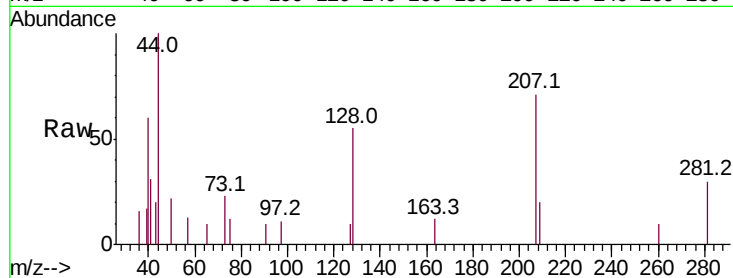
Tot Ion:128 Resp: 338

Ion Ratio Lower Upper

128 100

127 11.8 10.7 16.1

129 8.9 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

