

Data File : VW012106.D
Acq On : 22 Aug 2019 13:16
Operator : SY/VA
Sample : K4089-03
Misc : 6.22G/5ML/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
OK-01-082119

Quant Time: Aug 23 07:59:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	232068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	386018	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	332489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	143915	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	145943	54.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.54%	
35) Dibromofluoromethane	7.88	113	117458	54.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.48%	
50) Toluene-d8	10.32	98	479402	54.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.14%	
62) 4-Bromofluorobenzene	12.61	95	162901	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	

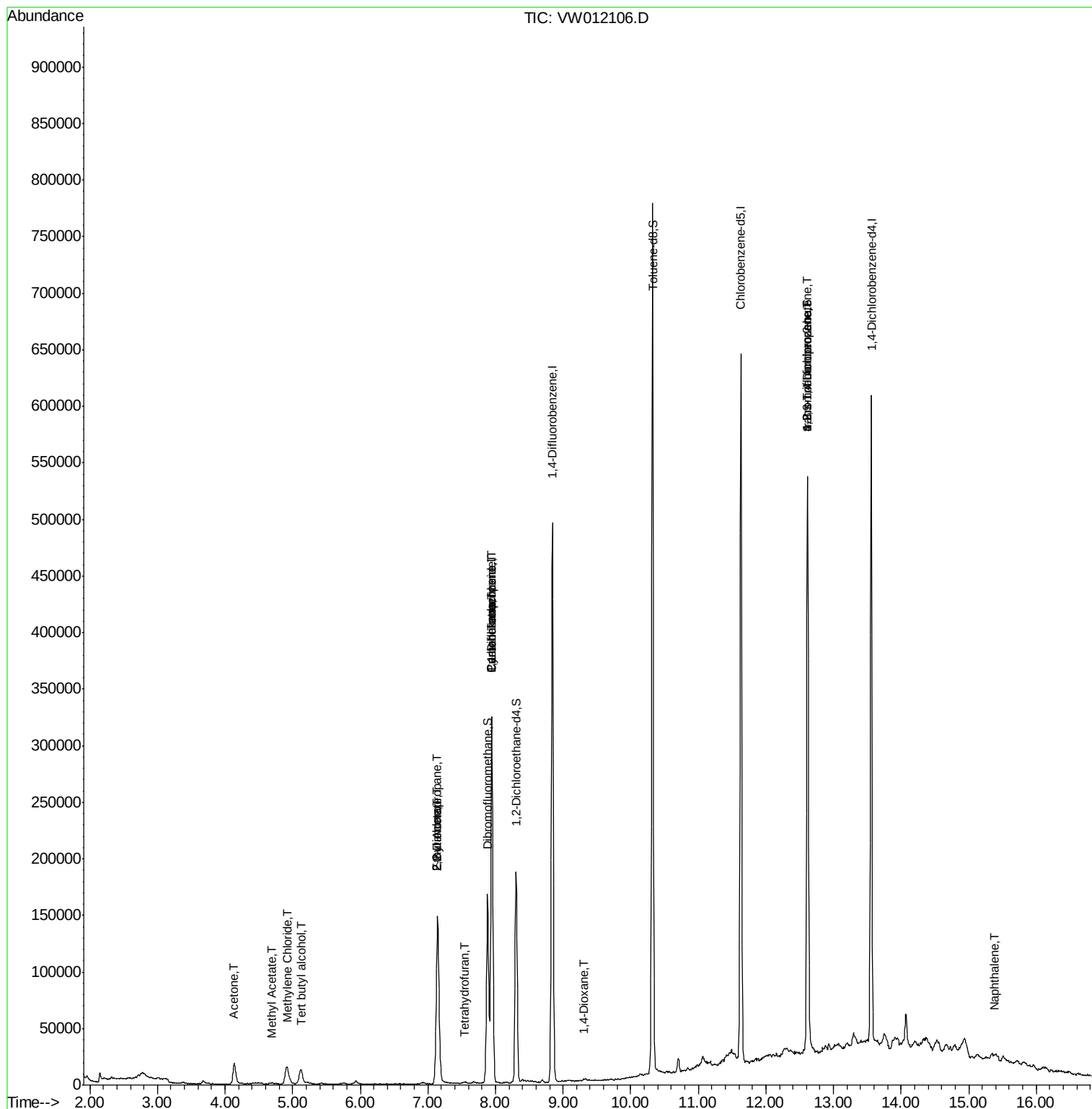
Target Compounds				Qvalue		
11) Tert butyl alcohol	5.12	59	13620	55.375	ug/l #	75
16) Acetone	4.13	43	36106	42.595	ug/l	94
18) Methyl Acetate	4.69	43	2400	1.260	ug/l #	75
20) Methylene Chloride	4.92	84	12438	4.255	ug/l	92
25) 2-Butanone	7.15	43	9597	8.652	ug/l #	82
26) 2,2-Dichloropropane	7.14	77	9917	3.107	ug/l #	54
29) Tetrahydrofuran	7.54	42	1621	2.557	ug/l	93
31) Cyclohexane	7.95	56	5983	1.201	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20351	5.070	ug/l #	53
37) Ethyl Acetate	7.15	43	9597	4.156	ug/l #	1
38) Carbon Tetrachloride	7.95	117	23492	6.837	ug/l #	17
49) 1,4-Dioxane	9.30	88	21	1.056	ug/l #	1
76) 1,2,3-Trichloropropane	12.61	75	87111	57.205	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.61	75	87111	131.838	ug/l #	7
95) Naphthalene	15.38	128	1038	2.241	ug/l #	67

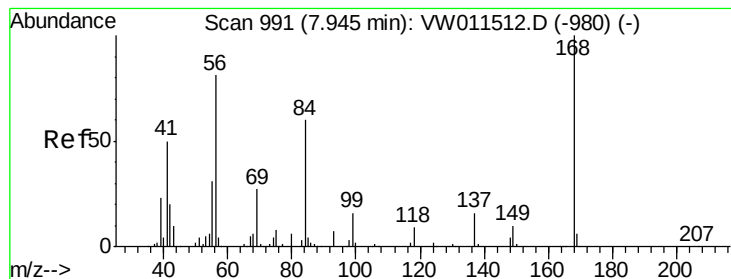
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

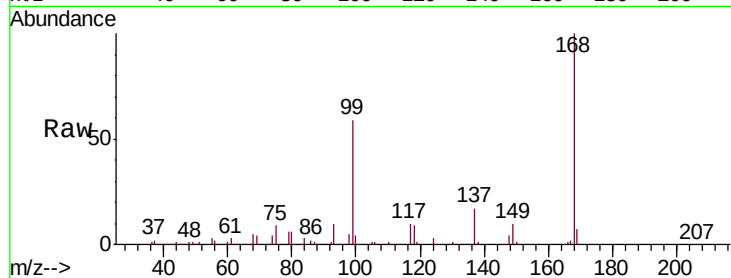
OK-01-082119

Tgt Ion:168 Resp: 232068

Ion Ratio Lower Upper

168 100

99 58.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

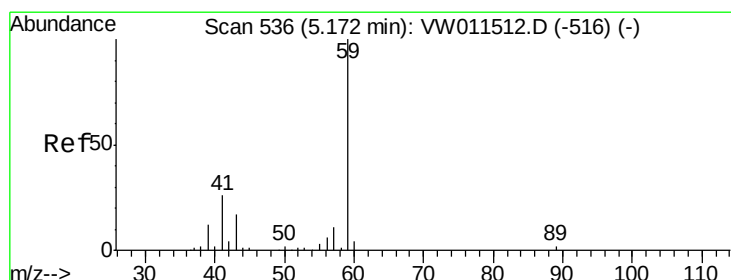
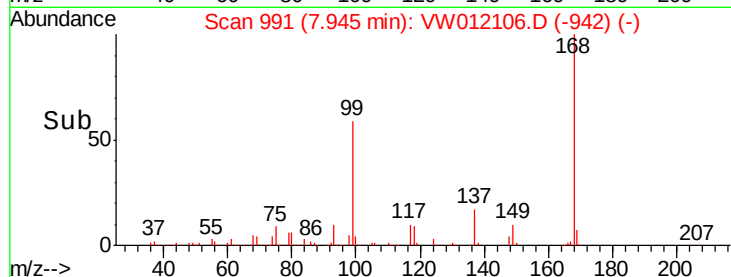
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 55.375 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.05 min

Lab File: VW012106.D

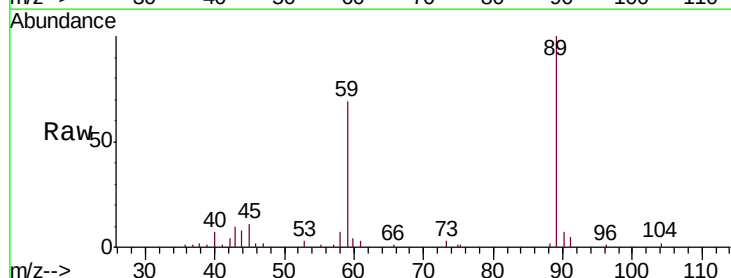
Acq: 22 Aug 2019 13:16

Tgt Ion: 59 Resp: 13620

Ion Ratio Lower Upper

59 100

57 1.1 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

4000

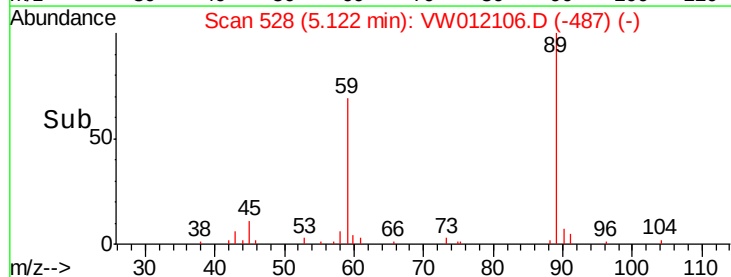
3000

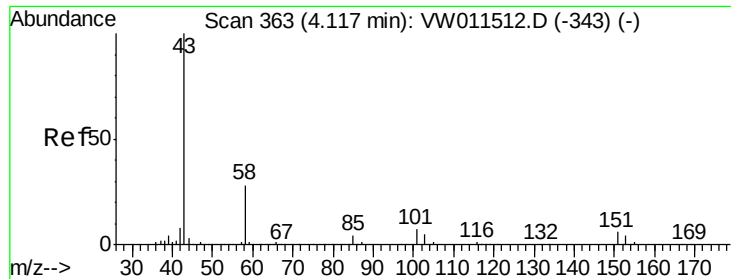
2000

1000

0

Time--> 5.00 5.10 5.20





#16

Acetone

Concen: 42.595 ug/l

RT: 4.13 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

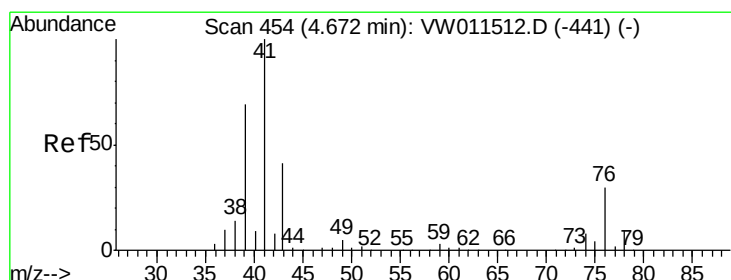
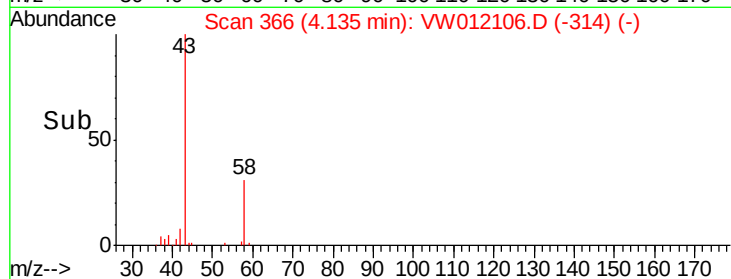
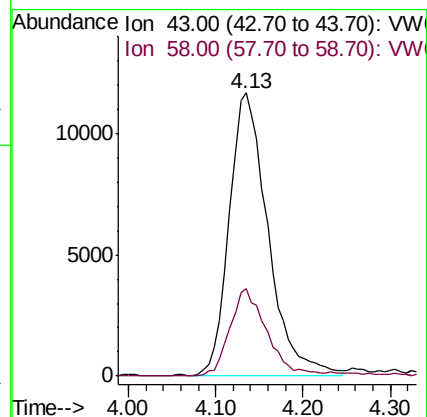
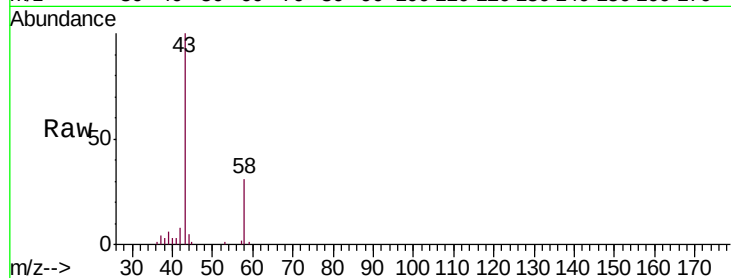
OK-01-082119

Tgt Ion: 43 Resp: 36106

Ion Ratio Lower Upper

43 100

58 30.9 22.3 33.5



#18

Methyl Acetate

Concen: 1.260 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.02 min

Lab File: VW012106.D

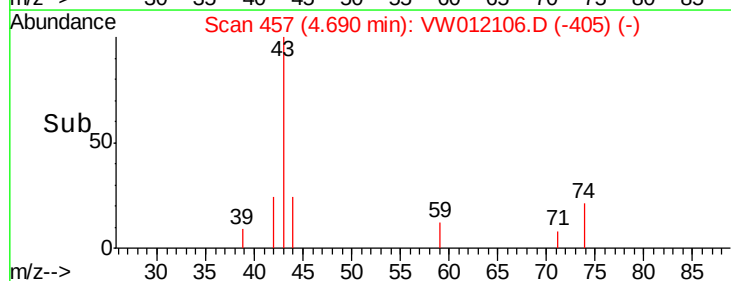
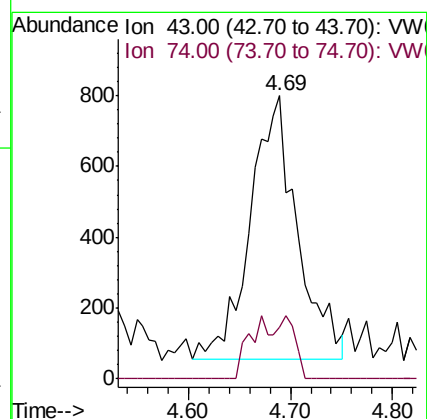
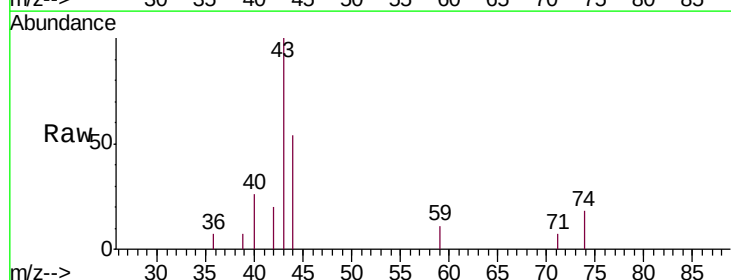
Acq: 22 Aug 2019 13:16

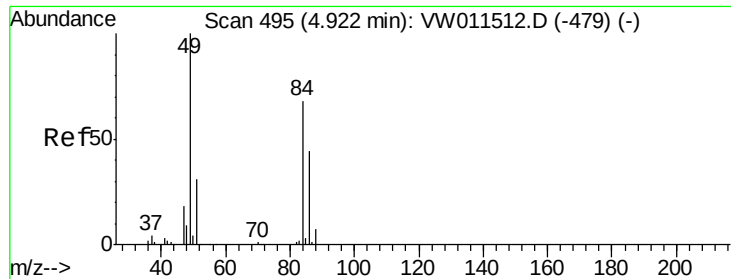
Tgt Ion: 43 Resp: 2400

Ion Ratio Lower Upper

43 100

74 8.4 15.9 23.9#

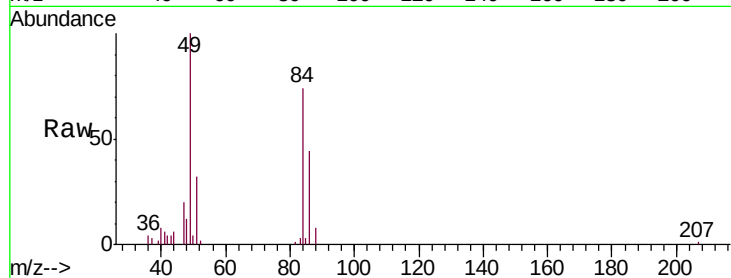




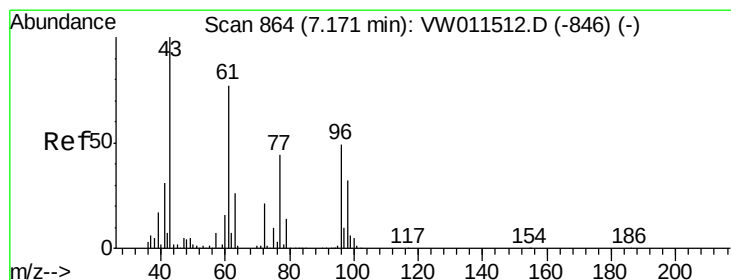
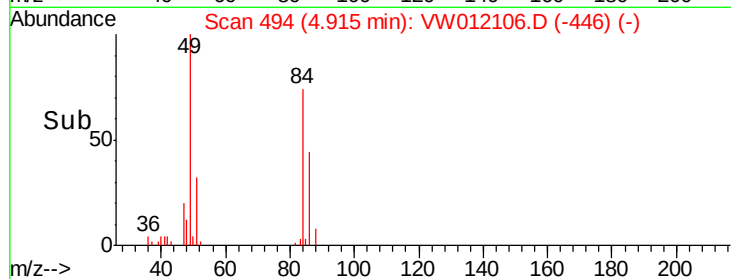
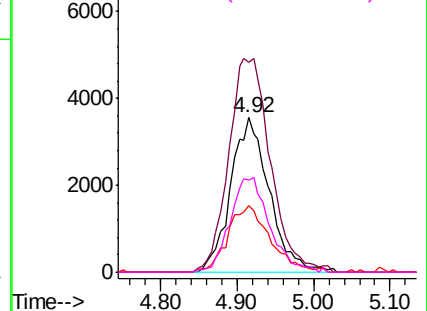
#20
Methylene Chloride
Concen: 4.255 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012106.D
Acq: 22 Aug 2019 13:16

Instrument :
MSVOA_W
ClientSampled :
OK-01-082119

Tgt Ion: 84 Resp: 12438
Ion Ratio Lower Upper
84 100
49 135.6 117.8 176.6
51 42.7 37.0 55.4
86 59.5 51.8 77.8

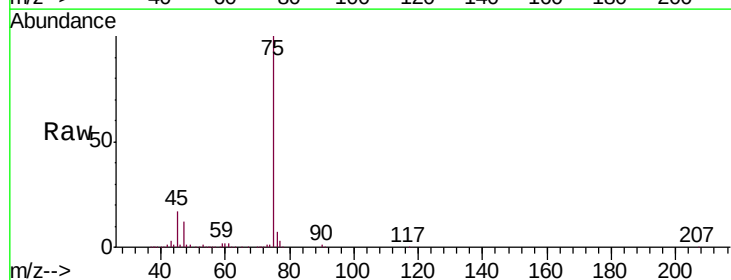


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

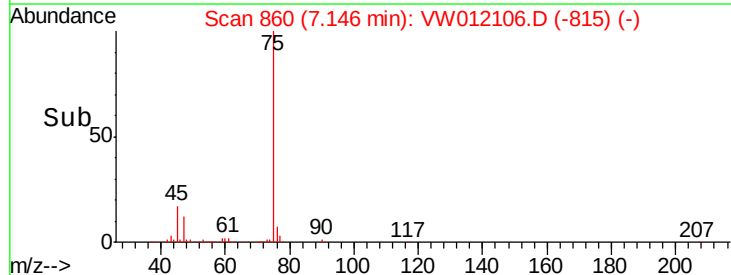
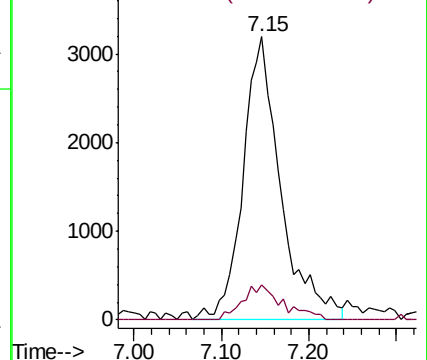


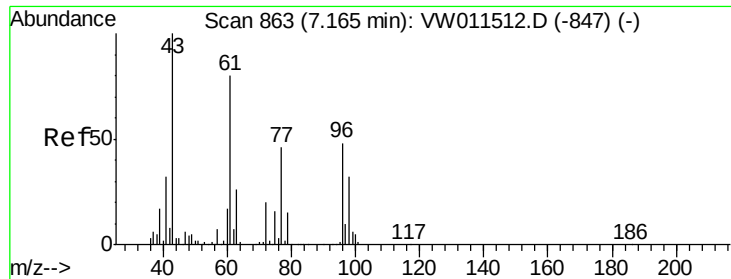
#25
2-Butanone
Concen: 8.652 ug/l
RT: 7.15 min Scan# 860
Delta R.T. -0.02 min
Lab File: VW012106.D
Acq: 22 Aug 2019 13:16

Tgt Ion: 43 Resp: 9597
Ion Ratio Lower Upper
43 100
72 12.3 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

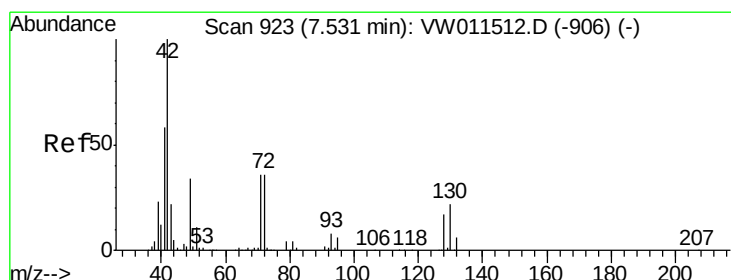
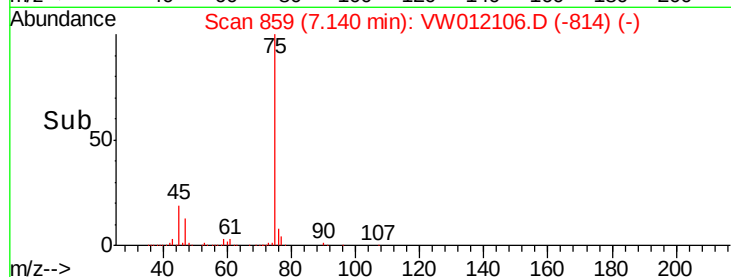
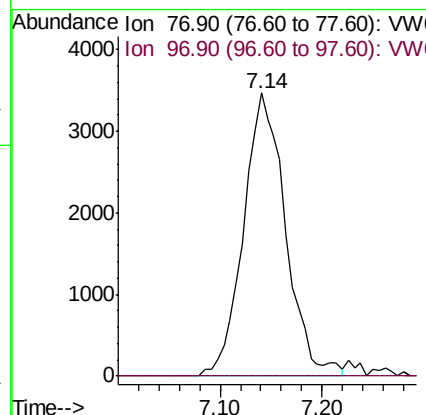
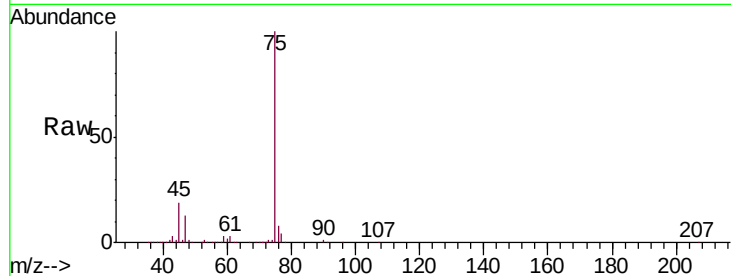




#26
 2,2-Dichloropropane
 Concen: 3.107 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW012106.D
 Acq: 22 Aug 2019 13:16

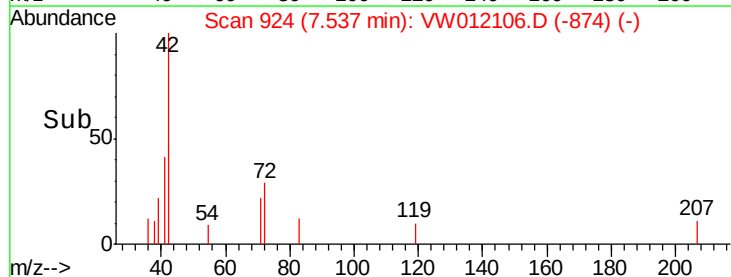
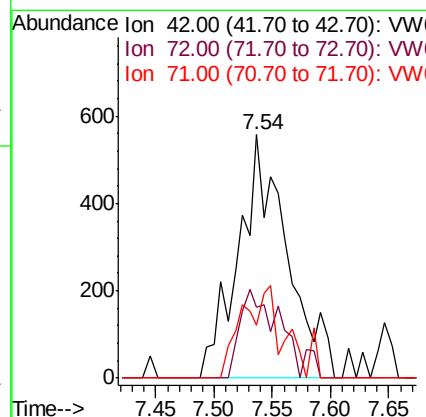
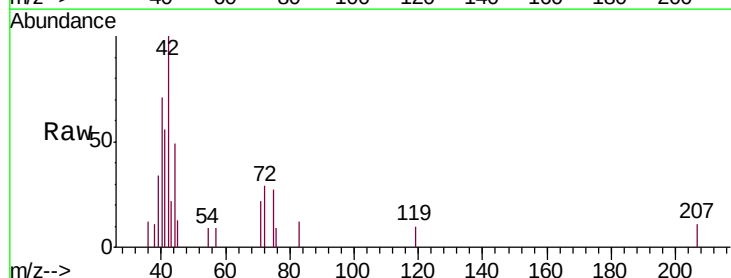
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-01-082119

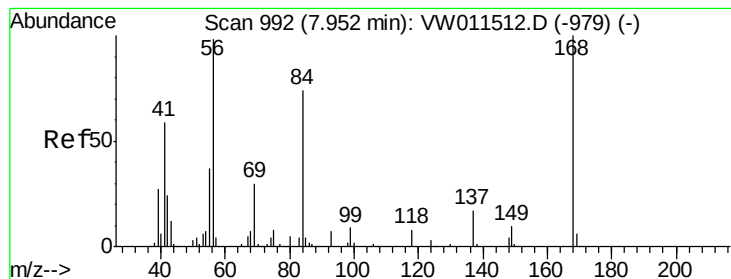
Tgt Ion: 77 Resp: 9917
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.8 32.4#



#29
 Tetrahydrofuran
 Concen: 2.557 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012106.D
 Acq: 22 Aug 2019 13:16

Tgt Ion: 42 Resp: 1621
 Ion Ratio Lower Upper
 42 100
 72 28.1 27.1 40.7
 71 30.2 26.2 39.4





#31

Cyclohexane

Concen: 1.201 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

OK-01-082119

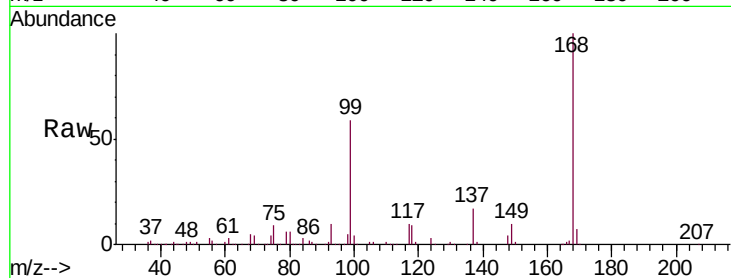
Tgt Ion: 56 Resp: 5983

Ion Ratio Lower Upper

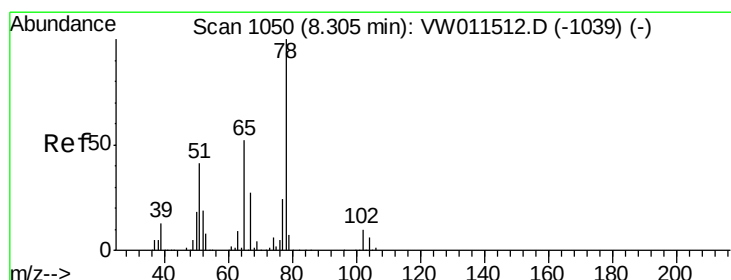
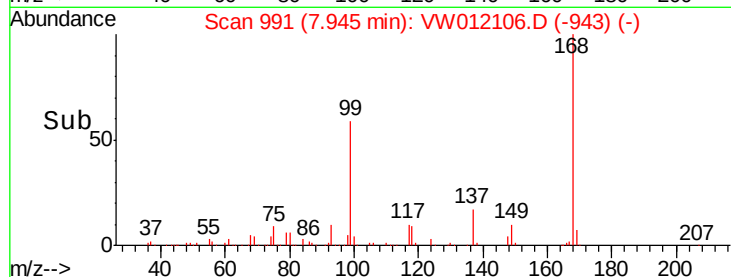
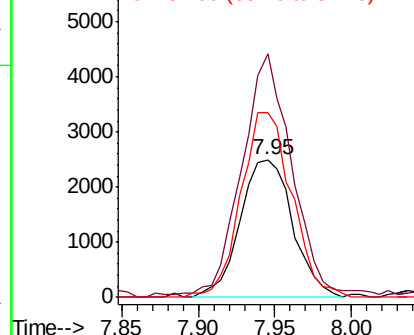
56 100

69 173.6 24.3 36.5#

84 131.0 60.4 90.6#



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: 54.767 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012106.D

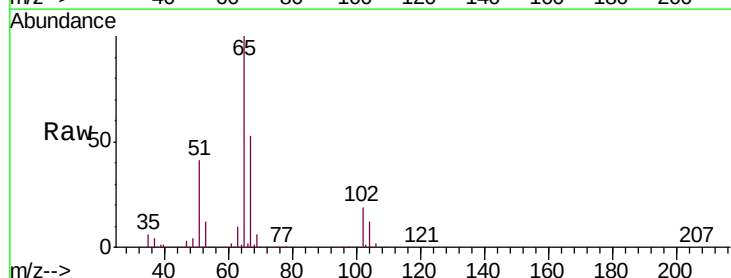
Acq: 22 Aug 2019 13:16

Tgt Ion: 65 Resp: 145943

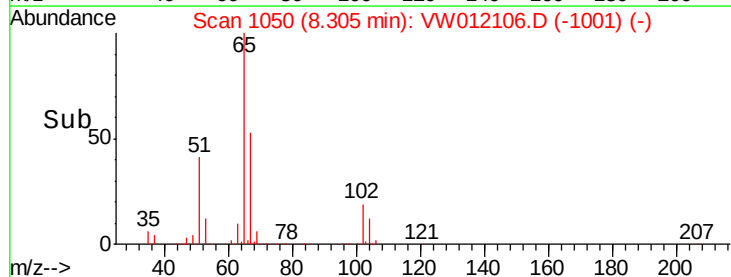
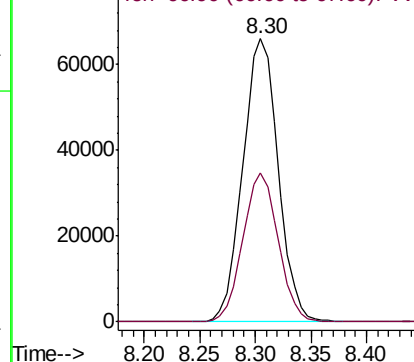
Ion Ratio Lower Upper

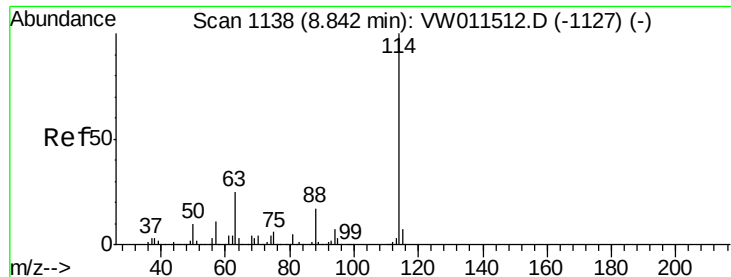
65 100

67 52.5 0.0 105.2



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: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

OK-01-082119

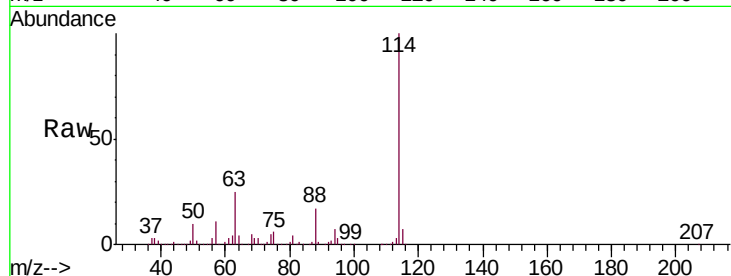
Tgt Ion:114 Resp: 386018

Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

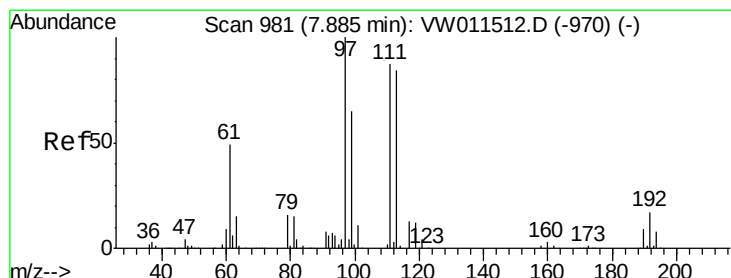
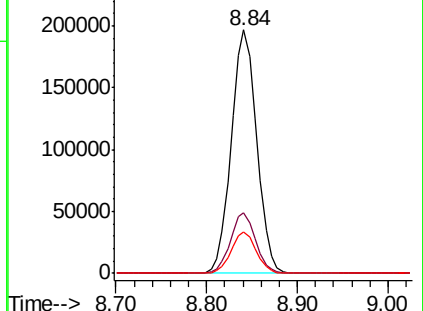
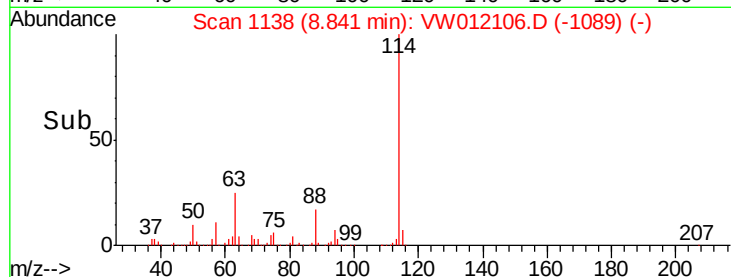
88 17.0 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 54.237 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

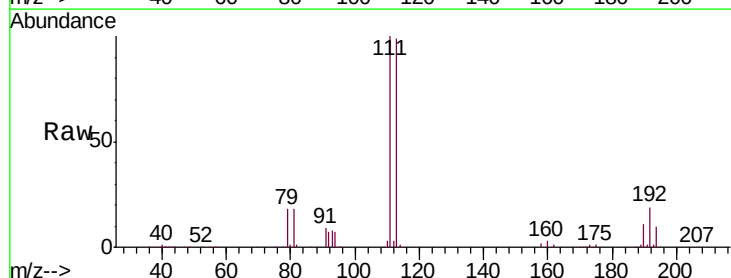
Tgt Ion:113 Resp: 117458

Ion Ratio Lower Upper

113 100

111 101.8 82.7 124.1

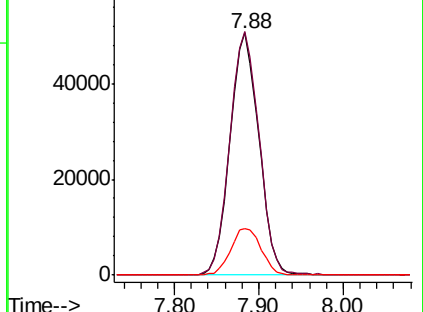
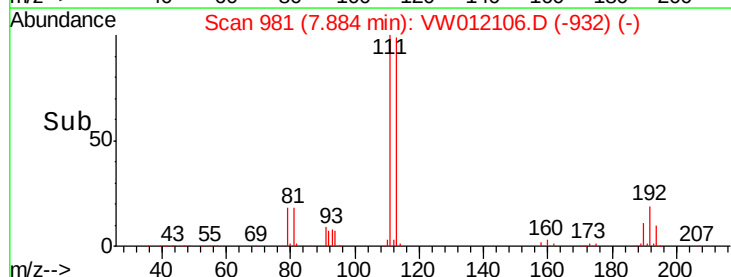
192 20.3 16.1 24.1

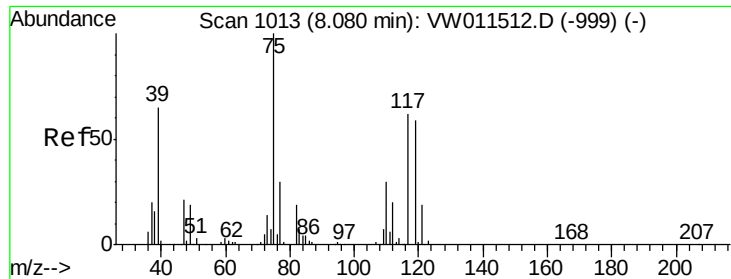


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

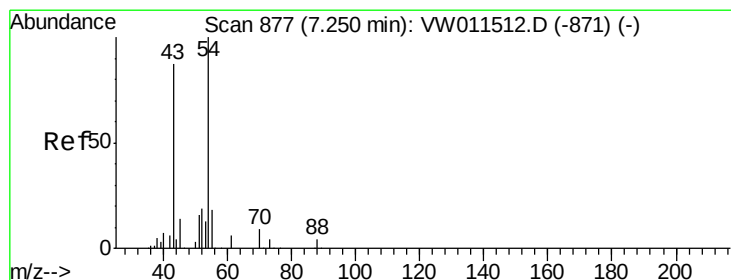
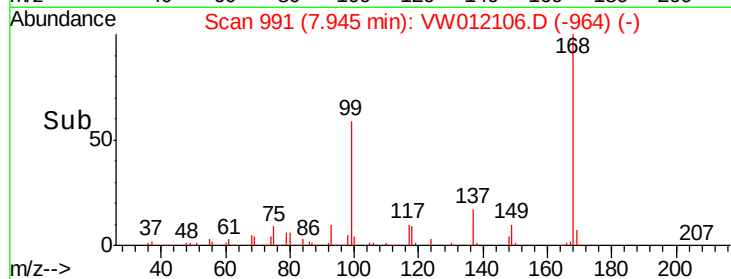
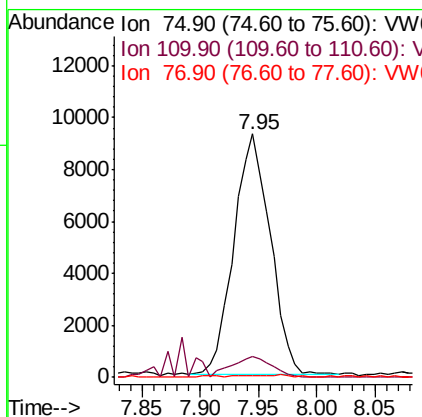
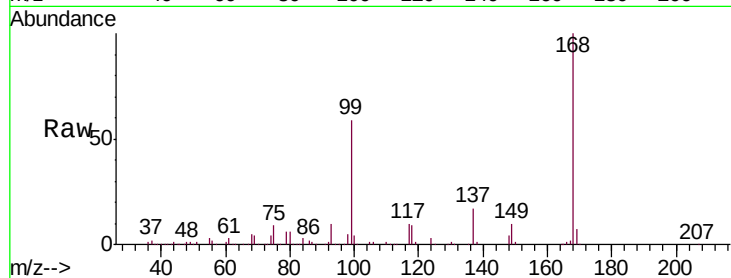




#36
 1,1-Dichloropropene
 Concen: 5.070 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012106.D
 Acq: 22 Aug 2019 13:16

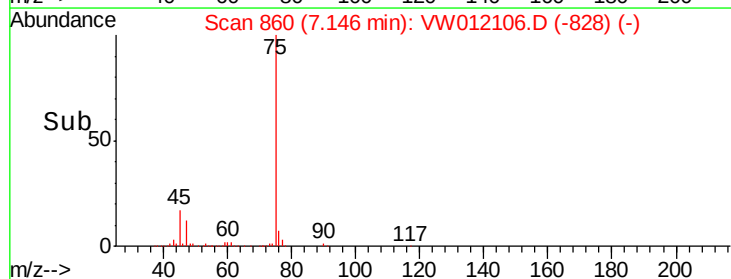
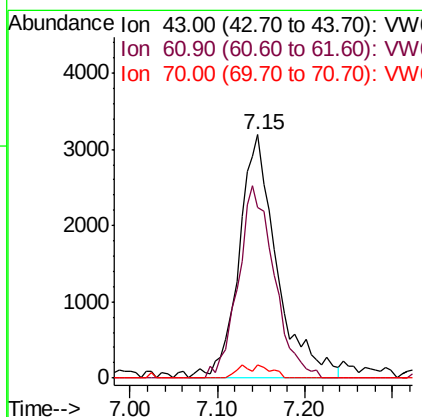
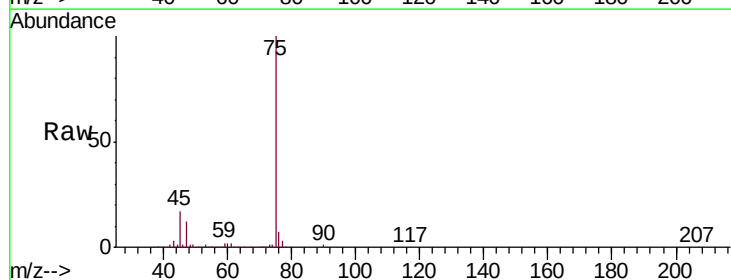
Instrument :
 MSVOA_W
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 OK-01-082119

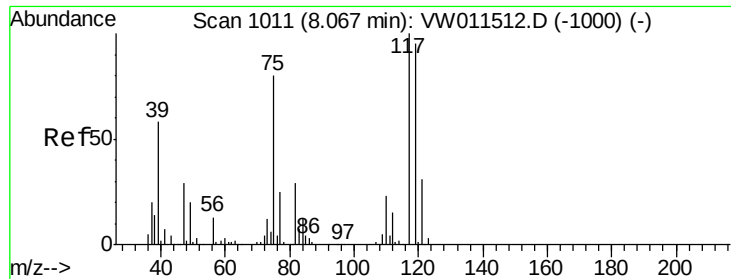
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	15.6	46.8#
77	0.4	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 4.156 ug/l
 RT: 7.15 min Scan# 860
 Delta R.T. -0.10 min
 Lab File: VW012106.D
 Acq: 22 Aug 2019 13:16

Tgt Ion	Ratio	Lower	Upper
43	100		
61	74.9	8.8	13.2#
70	2.3	7.1	10.7#





#38

Carbon Tetrachloride

Concen: 6.837 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampled :

OK-01-082119

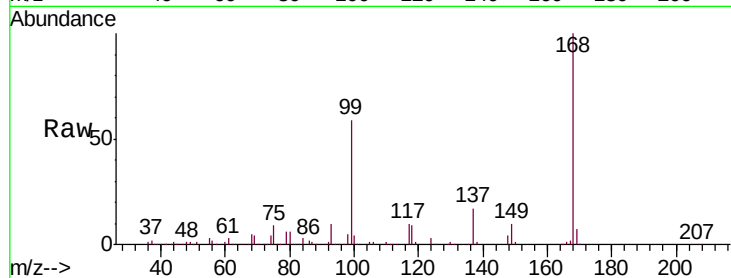
Tgt Ion:117 Resp: 23492

Ion Ratio Lower Upper

117 100

119 6.1 75.8 113.6#

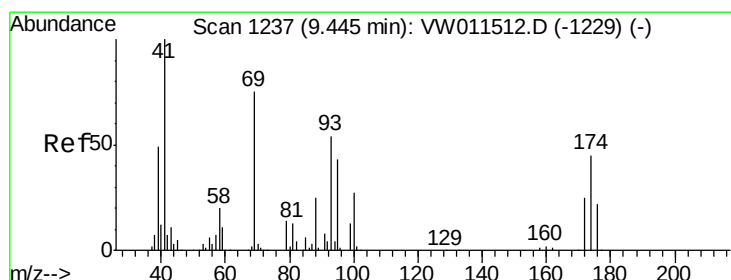
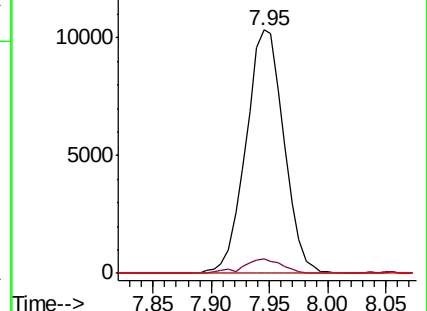
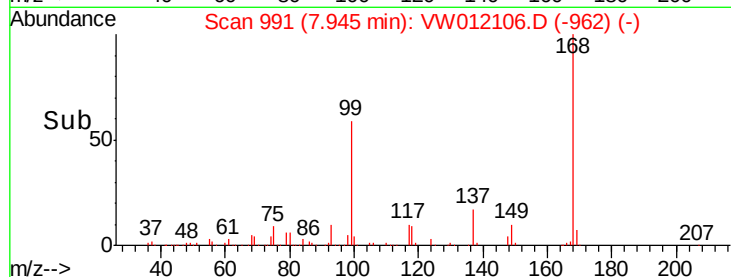
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.056 ug/l

RT: 9.30 min Scan# 1214

Delta R.T. -0.14 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

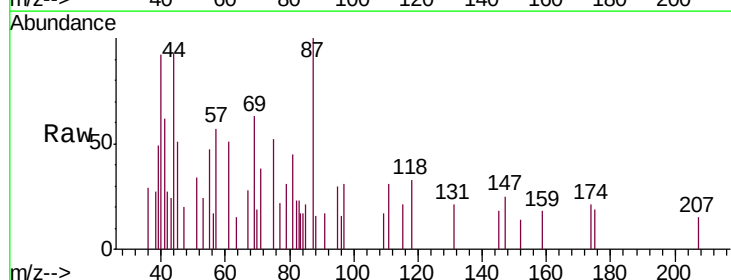
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 566.7 34.0 51.0#

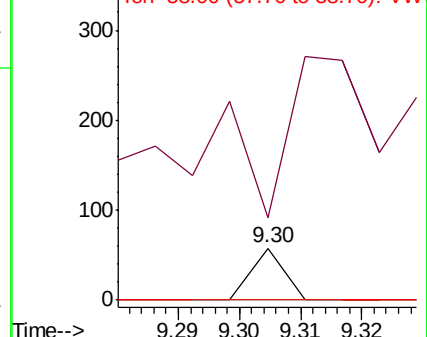
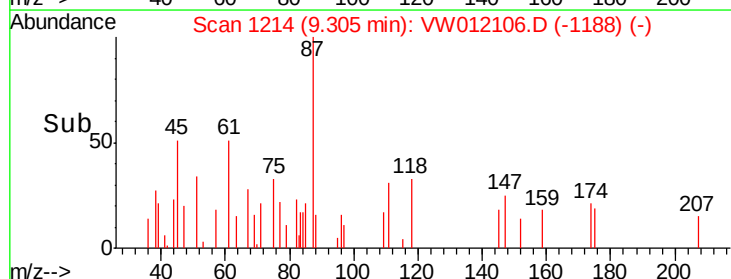
58 0.0 69.7 104.5#

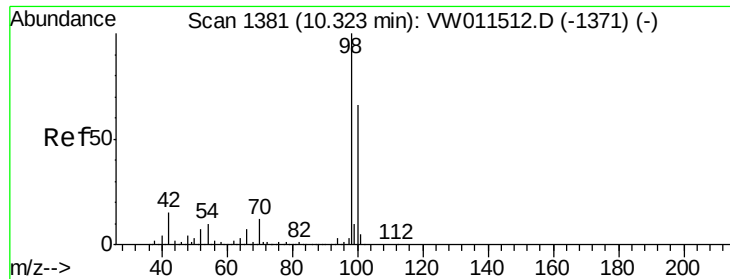


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 54.068 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

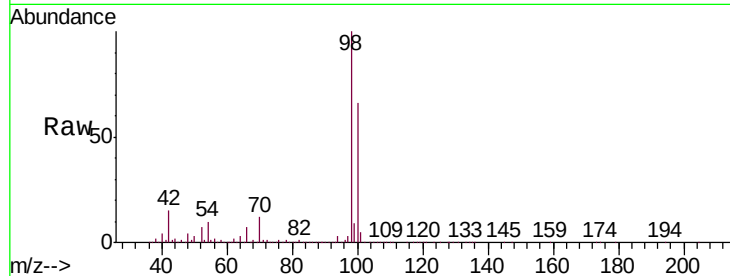
OK-01-082119

Tgt Ion: 98 Resp: 479402

Ion Ratio Lower Upper

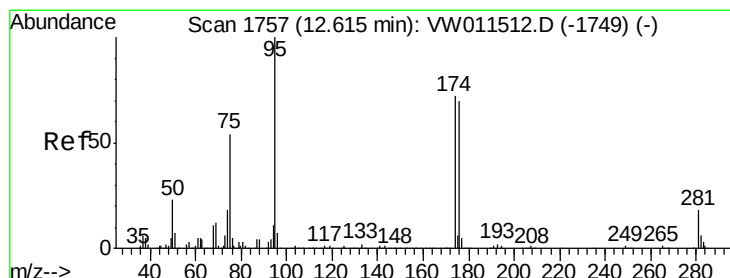
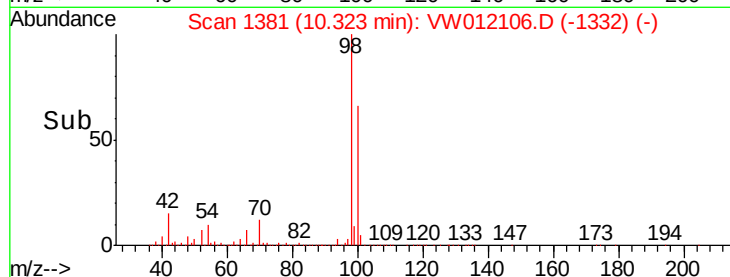
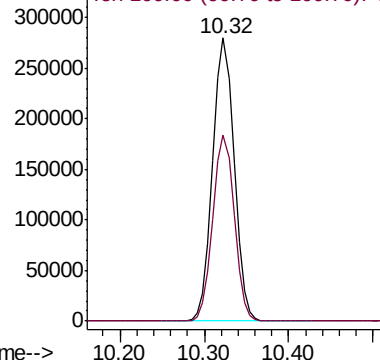
98 100

100 65.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 51.532 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

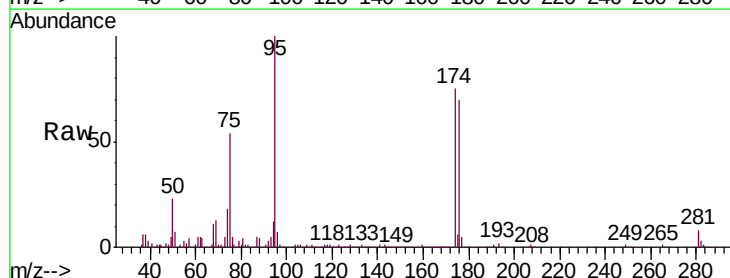
Tgt Ion: 95 Resp: 162901

Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.2

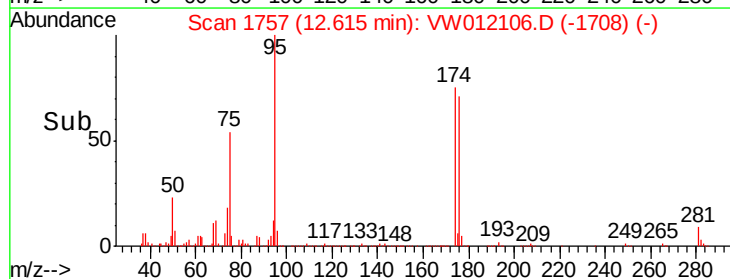
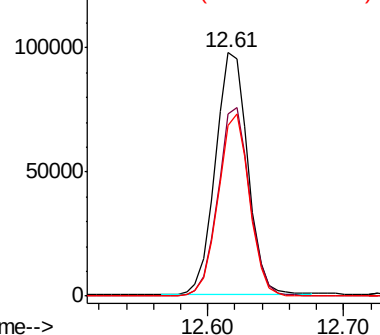
176 72.8 0.0 144.4

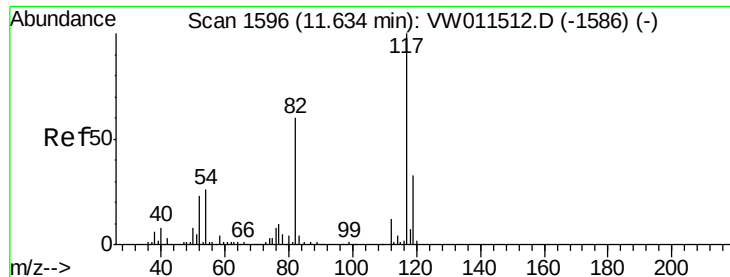


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

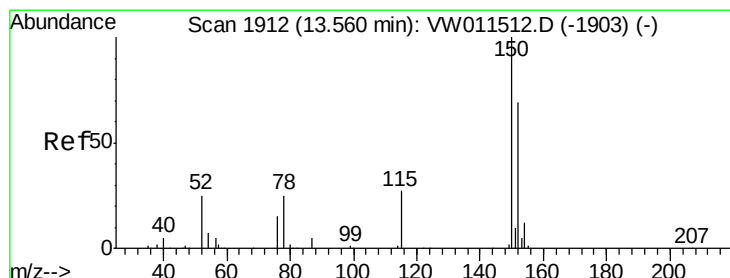
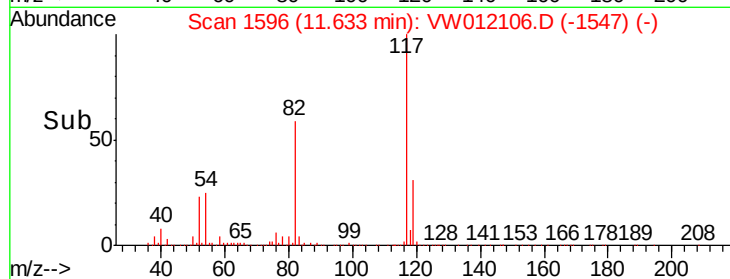
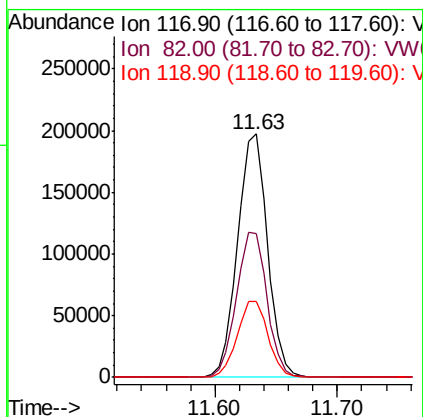
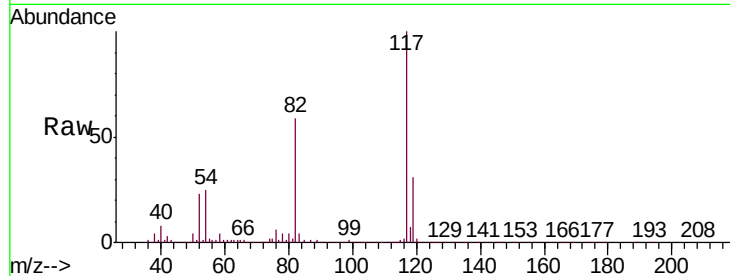




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012106.D
Acq: 22 Aug 2019 13:16

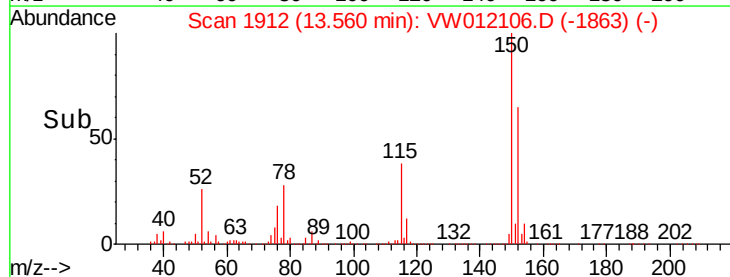
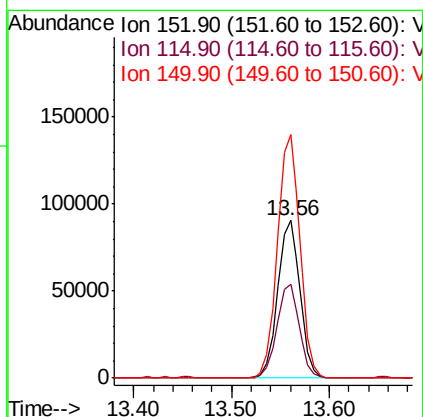
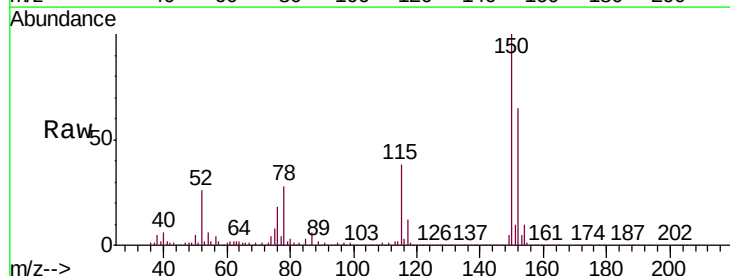
Instrument :
MSVOA_W
ClientSampleId :
OK-01-082119

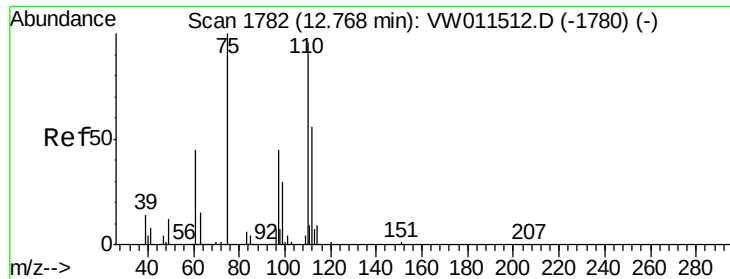
Tgt Ion:117 Resp: 332489
Ion Ratio Lower Upper
117 100
82 59.1 47.9 71.9
119 31.2 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012106.D
Acq: 22 Aug 2019 13:16

Tgt Ion:152 Resp: 143915
Ion Ratio Lower Upper
152 100
115 58.8 30.5 91.5
150 155.4 0.0 352.6





#76

1,2,3-Trichloropropane

Concen: 57.205 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

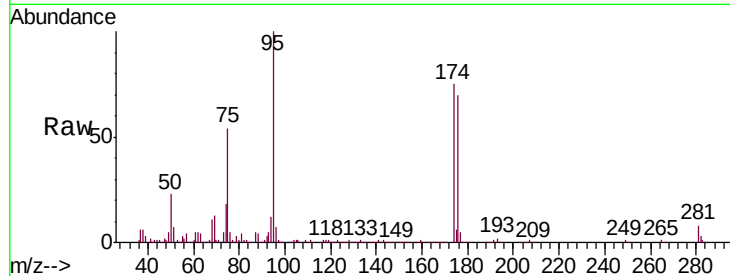
OK-01-082119

Tgt Ion: 75 Resp: 87111

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.61

60000

50000

40000

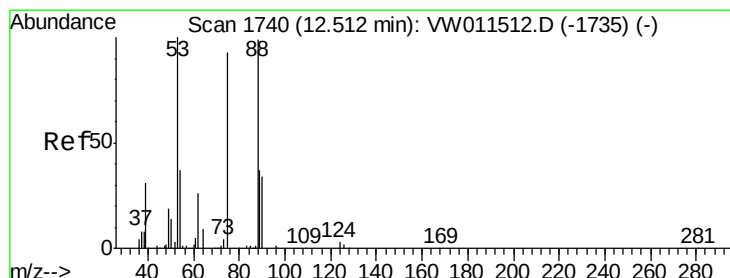
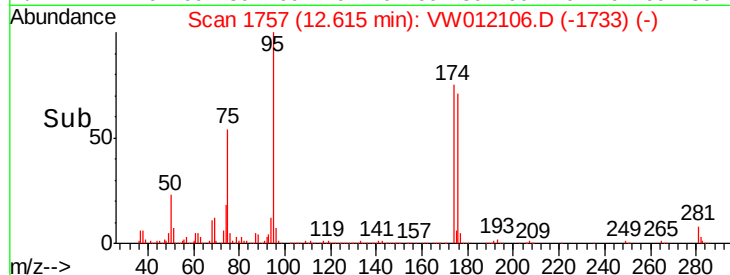
30000

20000

10000

0

Time--> 12.50 12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 131.838 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

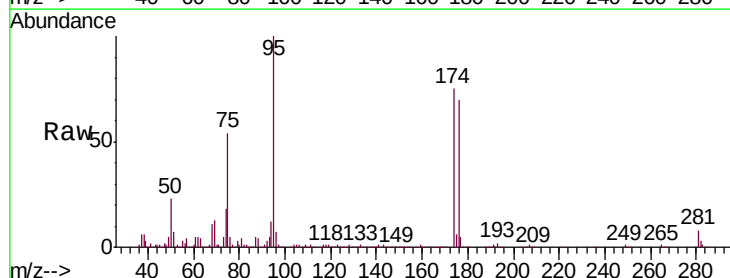
Tgt Ion: 75 Resp: 87111

Ion Ratio Lower Upper

75 100

53 0.6 88.0 132.0#

89 0.3 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

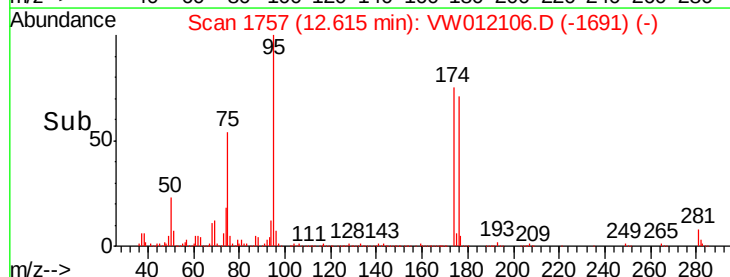
60000

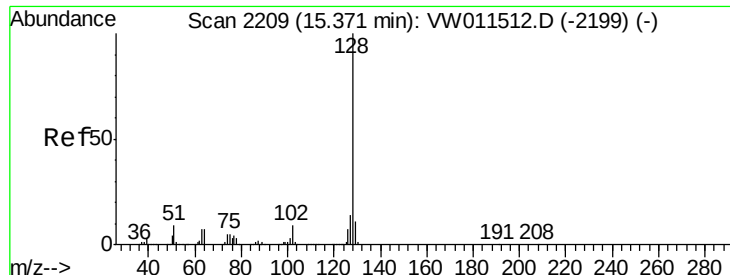
40000

20000

0

Time--> 12.50 12.60 12.70





#95

Naphthalene

Concen: 2.241 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012106.D

Acq: 22 Aug 2019 13:16

Instrument :

MSVOA_W

ClientSampleId :

OK-01-082119

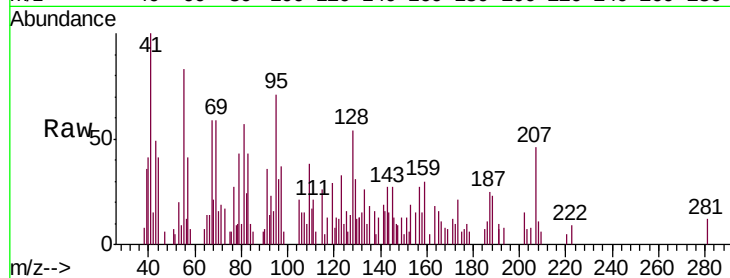
Tgt Ion:128 Resp: 1038

Ion Ratio Lower Upper

128 100

127 28.2 10.6 16.0#

129 0.0 8.6 13.0#



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

