

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080819\
 Data File : VW011761.D
 Acq On : 07 Aug 2019 19:30
 Operator : SY/VA
 Sample : K4092-05
 Misc : 6.40G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-C

Quant Time: Aug 08 08:43:03 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	204577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	342469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	280592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	99426	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	133810	56.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.92%	
35) Dibromofluoromethane	7.88	113	104006	54.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.26%	
50) Toluene-d8	10.32	98	417553	53.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.16%	
62) 4-Bromofluorobenzene	12.62	95	128237	45.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.44%	

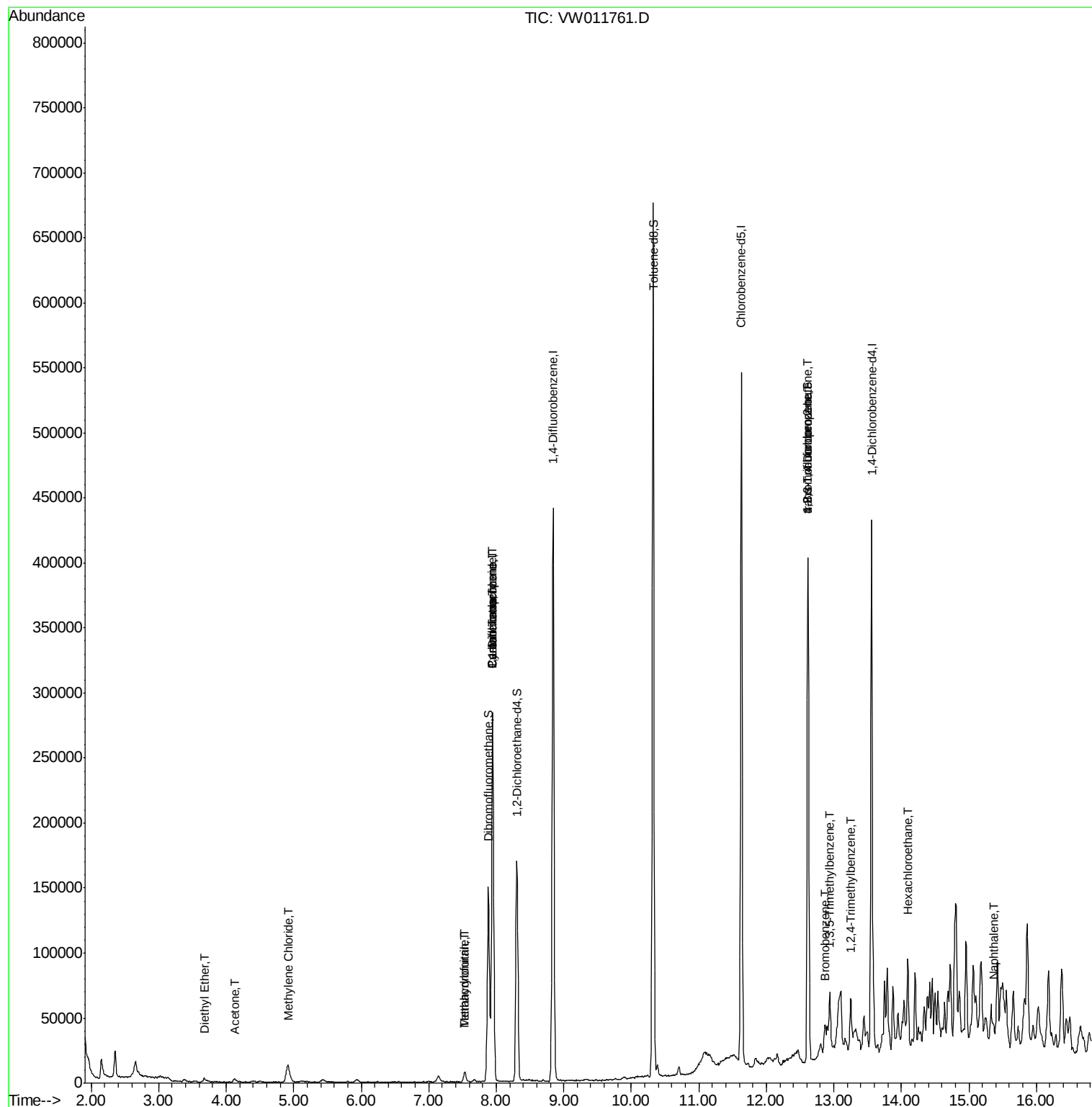
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1308	1.085	ug/l	88
11) Tert butyl alcohol	5.18	59	345	Below Cal	#	72
16) Acetone	4.12	43	4257	5.697	ug/l	92
20) Methylene Chloride	4.92	84	10190	3.954	ug/l	99
29) Tetrahydrofuran	7.53	42	6535	11.692	ug/l	98
31) Cyclohexane	7.95	56	5244	1.194	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17234	4.840	ug/l #	52
38) Carbon Tetrachloride	7.95	117	20523	6.732	ug/l #	17
41) Methacrylonitrile	7.54	41	4217	3.443	ug/l #	51
76) 1,2,3-Trichloropropane	12.62	75	68781	65.379	ug/l #	100
77) Bromobenzene	12.86	156	3816	2.328	ug/l #	20
80) 1,3,5-Trimethylbenzene	12.94	105	17124	2.754	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	68781	150.675	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	21640	3.455	ug/l	100
90) Hexachloroethane	14.10	117	3171	2.664	ug/l #	10
95) Naphthalene	15.37	128	2460	2.667	ug/l #	94

(#) = 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: VW011761.D

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Instrument :

MSVOA_W

ClientSampleId :

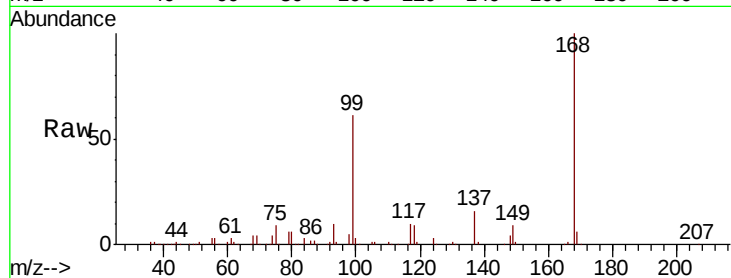
EO-01-080719-C

Tgt Ion:168 Resp: 204577

Ion Ratio Lower Upper

168 100

99 61.3 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

100000

80000

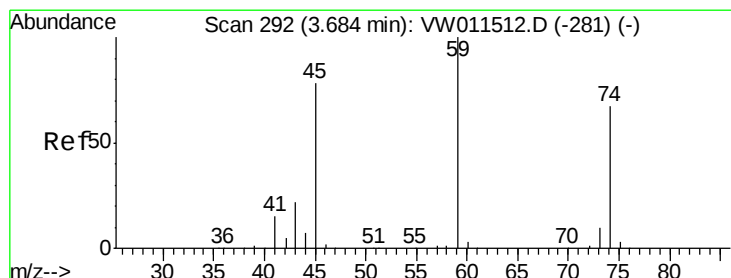
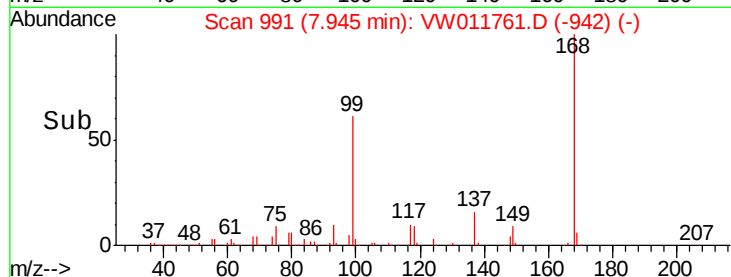
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40000

20000

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Time-->



#8

Diethyl Ether

Concen: 1.085 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW011761.D

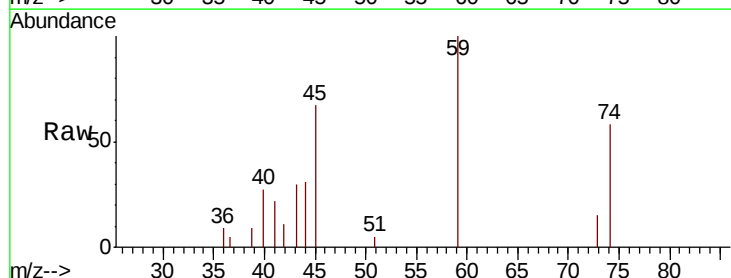
Acq: 07 Aug 2019 19:30

Tgt Ion: 74 Resp: 1308

Ion Ratio Lower Upper

74 100

45 132.6 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

800

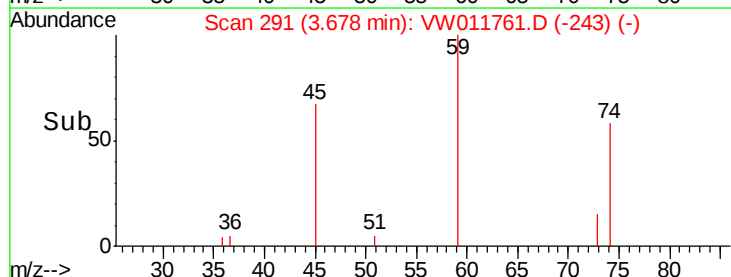
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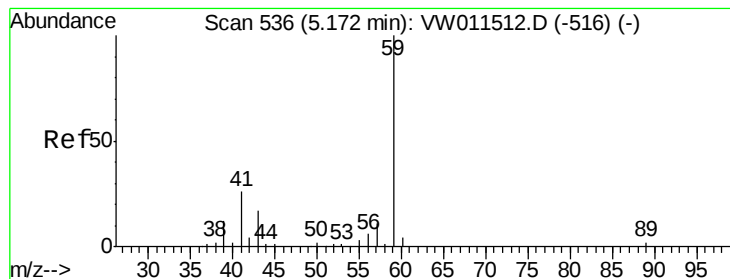
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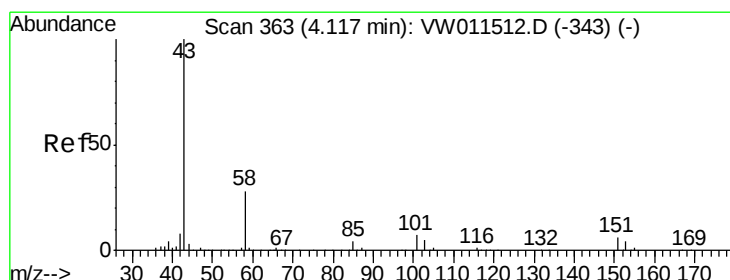
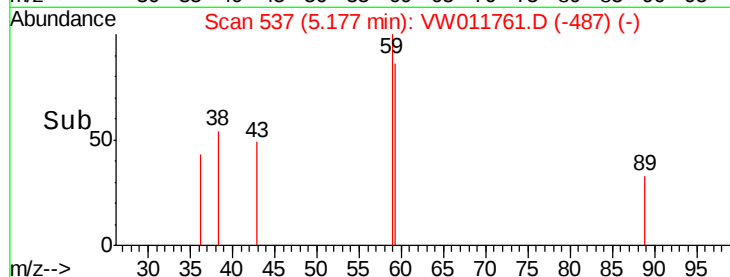
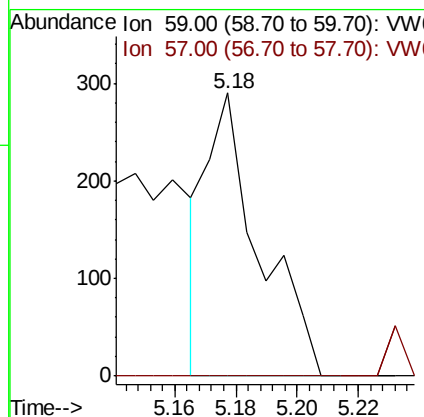
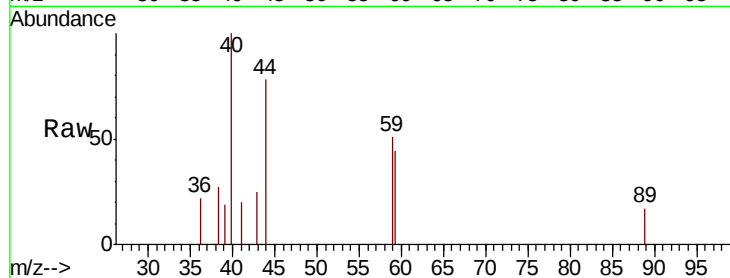


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW011761.D
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 ClientSampleId :
 EO-01-080719-C

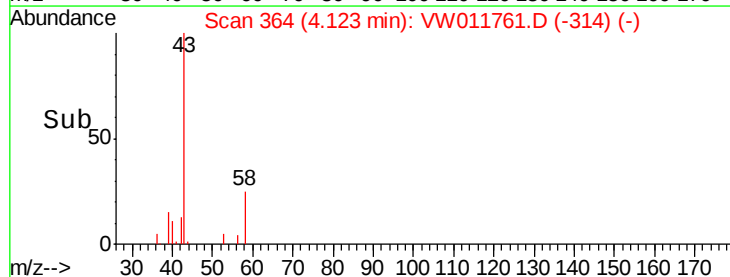
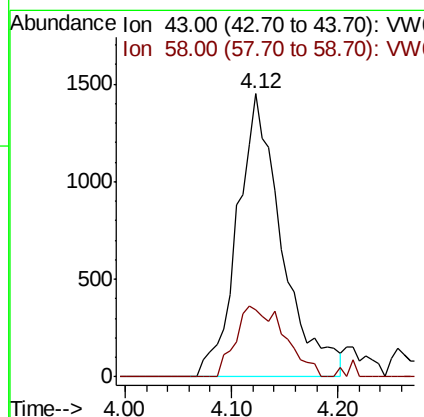
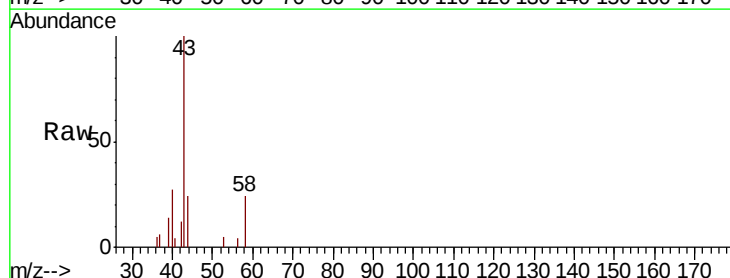
Tgt Ion: 59 Resp: 345
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

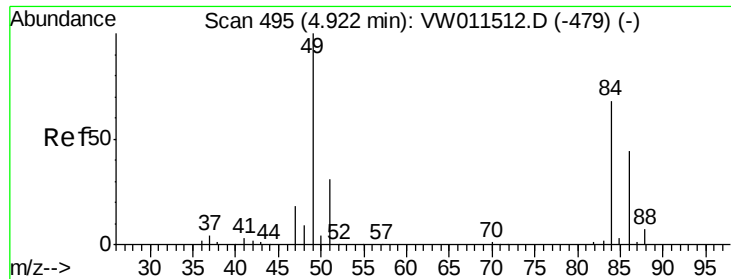


#16

Acetone
 Concen: 5.697 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VW011761.D
 Acq: 07 Aug 2019 19:30

Tgt Ion: 43 Resp: 4257
 Ion Ratio Lower Upper
 43 100
 58 23.9 22.3 33.5

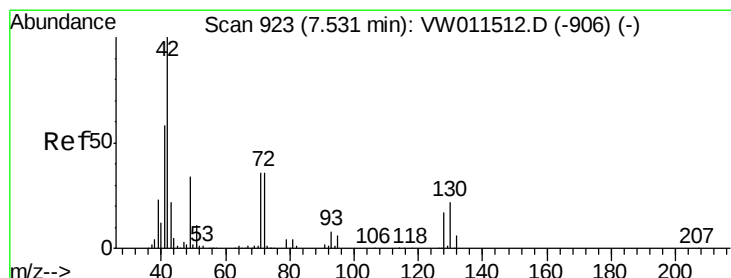
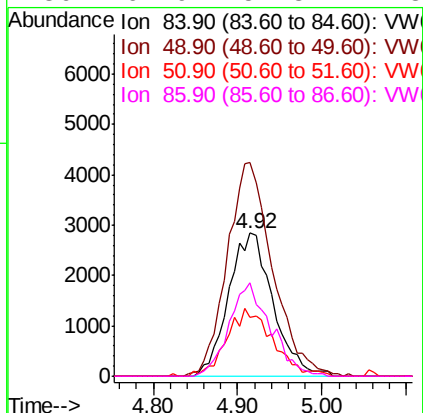
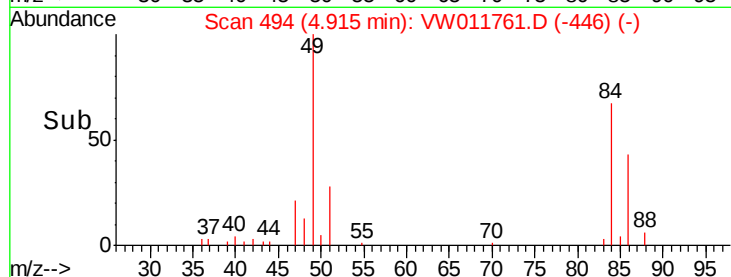
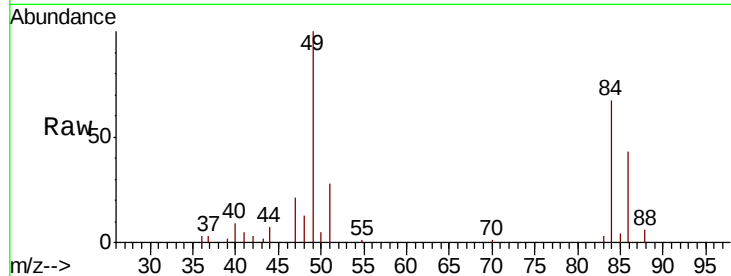




#20
Methylene Chloride
Concen: 3.954 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011761.D
Acq: 07 Aug 2019 19:30

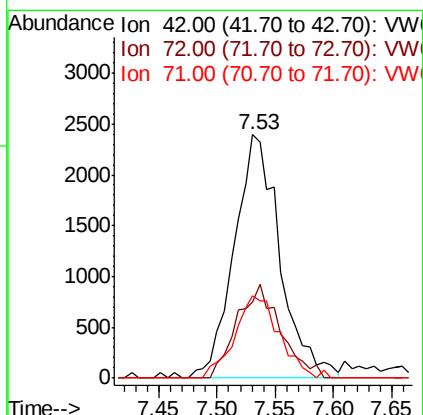
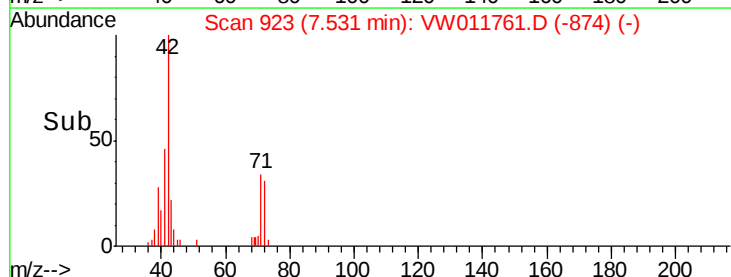
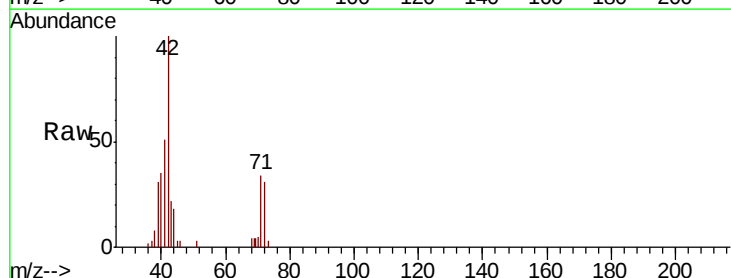
Instrument :
MSVOA_W
ClientSampleId :
EO-01-080719-C

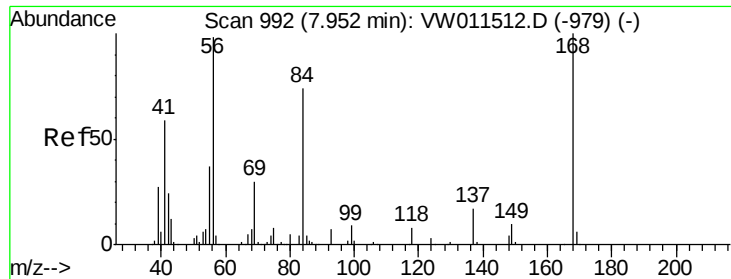
Tgt Ion:	84	Resp:	10190
Ion	Ratio	Lower	Upper
84	100		
49	147.2	117.8	176.6
51	41.5	37.0	55.4
86	64.9	51.8	77.8



#29
Tetrahydrofuran
Concen: 11.692 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW011761.D
Acq: 07 Aug 2019 19:30

Tgt Ion:	42	Resp:	6535
Ion	Ratio	Lower	Upper
42	100		
72	36.6	27.1	40.7
71	32.9	26.2	39.4

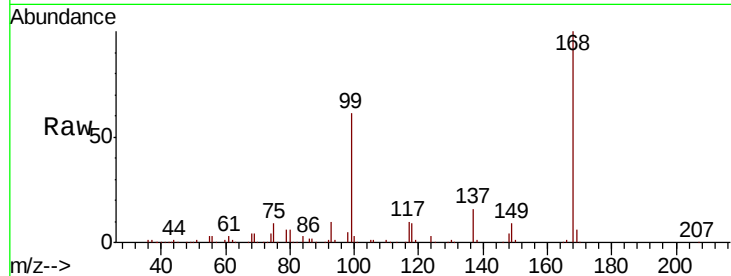




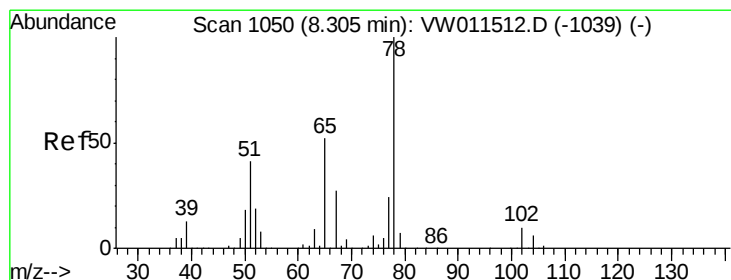
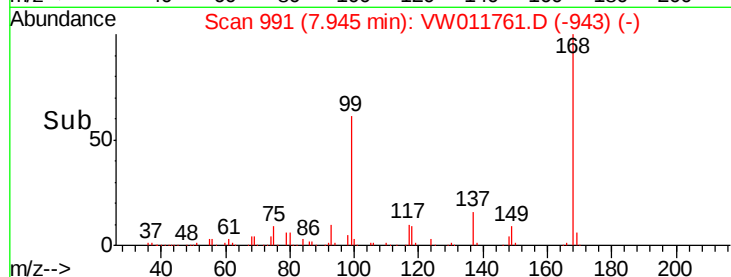
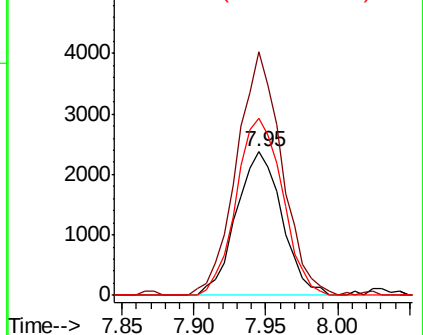
#31
Cyclohexane
Concen: 1.194 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW011761.D
Acq: 07 Aug 2019 19:30

Instrument :
MSVOA_W
ClientSampleId :
EO-01-080719-C

Tgt Ion: 56 Resp: 5244
Ion Ratio Lower Upper
56 100
69 170.0 24.3 36.5#
84 124.0 60.4 90.6#

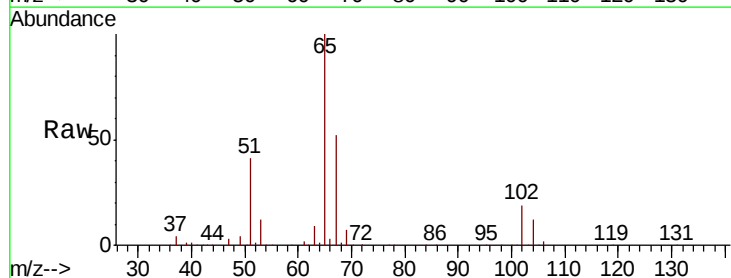


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

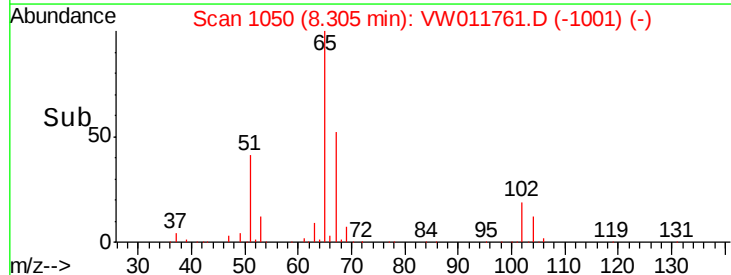
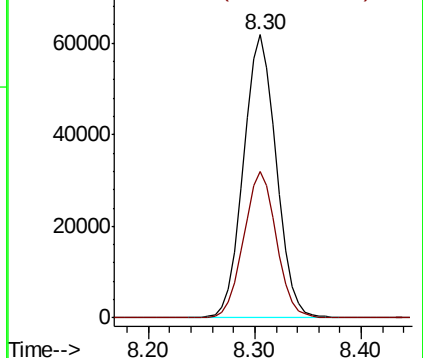


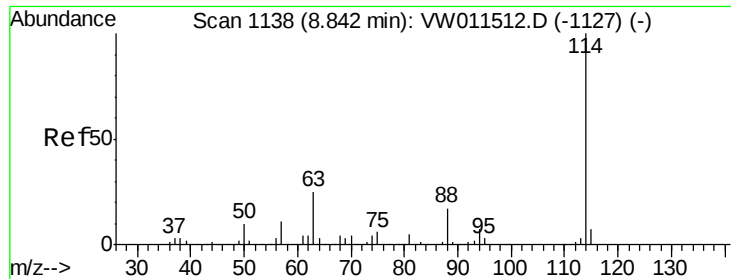
#33
1,2-Dichloroethane-d4
Concen: 56.962 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW011761.D
Acq: 07 Aug 2019 19:30

Tgt Ion: 65 Resp: 133810
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.2



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

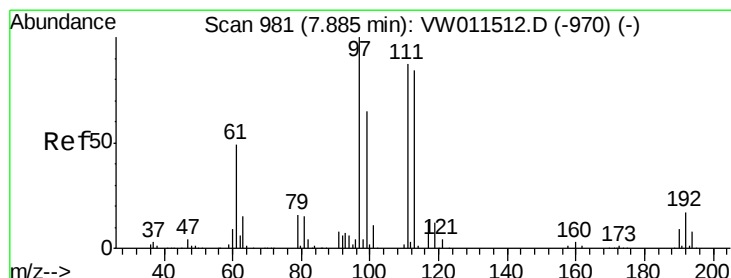
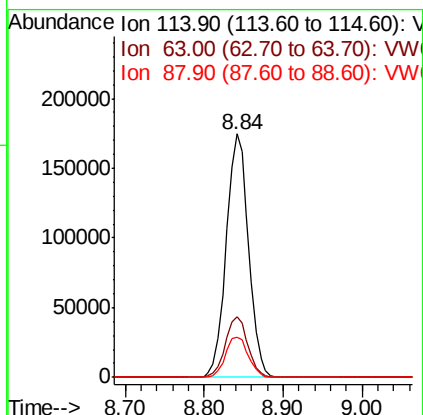
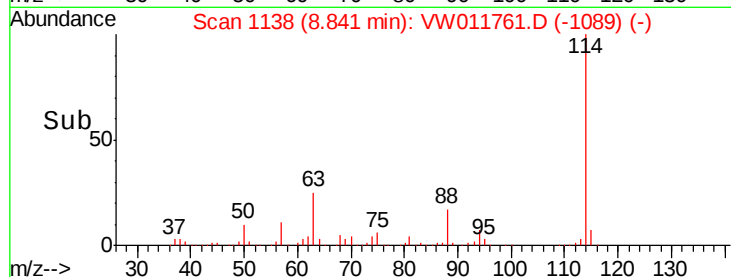
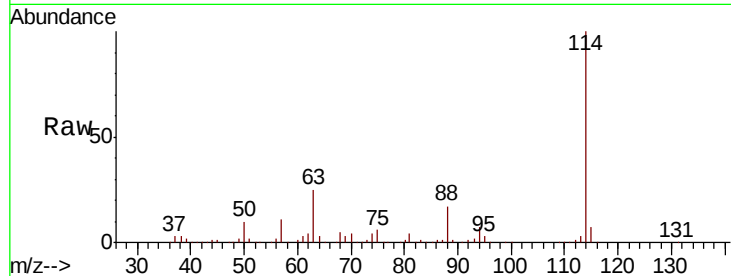




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011761.D
 Acq: 07 Aug 2019 19:30

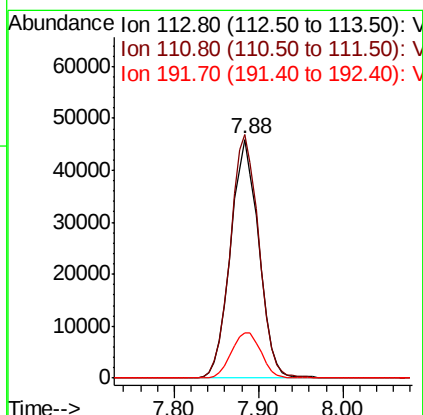
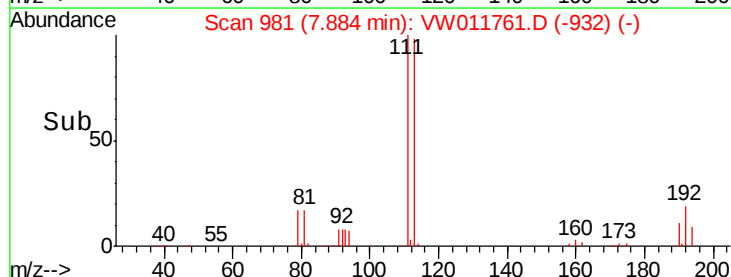
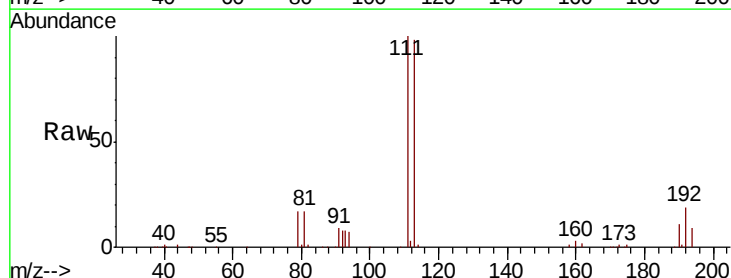
Instrument :
 MSVOA_W
 ClientSampleId :
 EO-01-080719-C

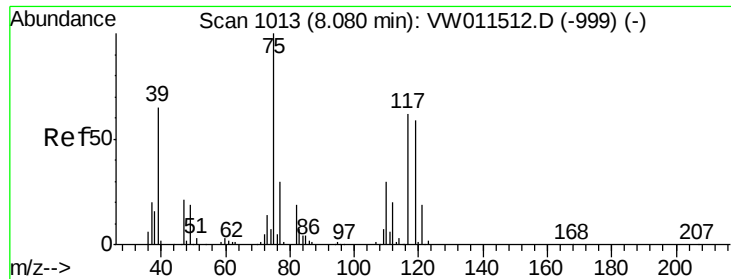
Tgt Ion:114 Resp: 342469
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 49.2
 88 16.7 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 54.133 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW011761.D
 Acq: 07 Aug 2019 19:30

Tgt Ion:113 Resp: 104006
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.7 124.1
 192 20.1 16.1 24.1

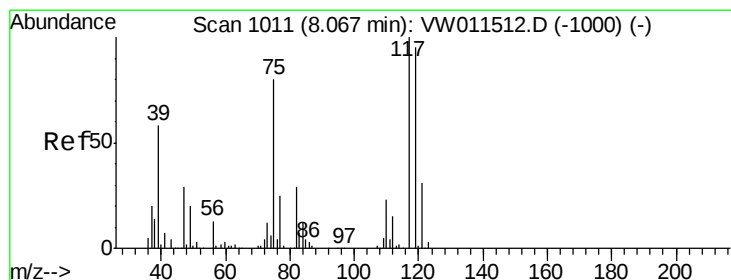
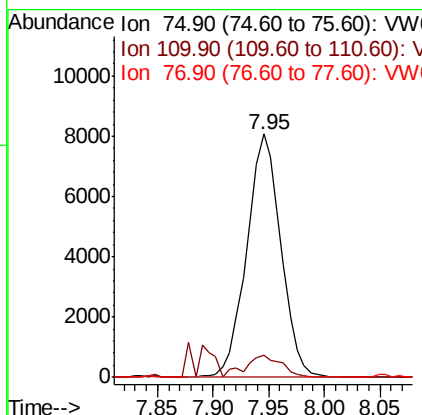
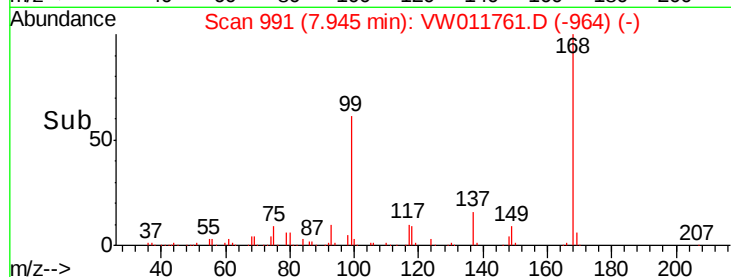
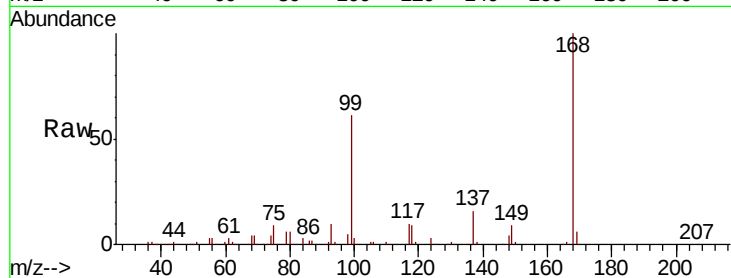




#36
 1,1-Dichloropropene
 Concen: 4.840 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011761.D
 Acq: 07 Aug 2019 19:30

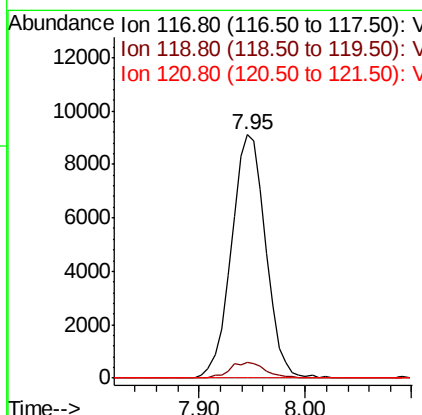
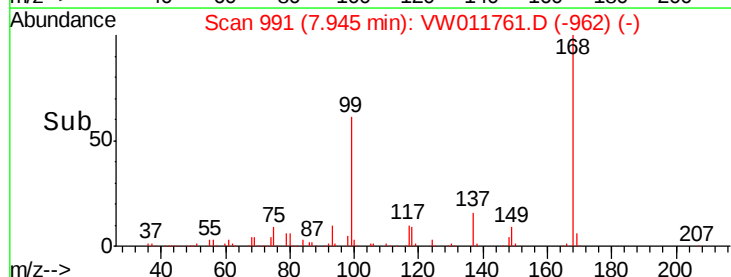
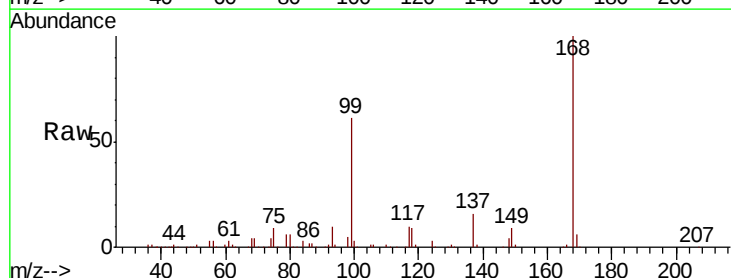
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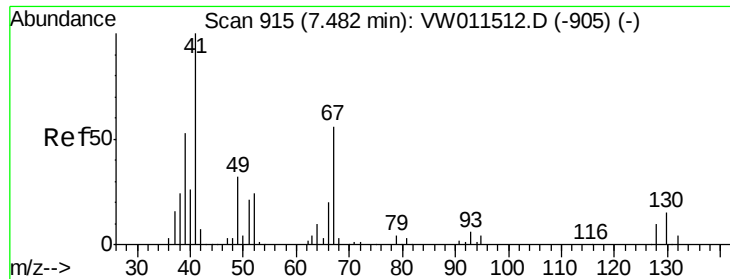
Tgt Ion: 75 Resp: 17234
 Ion Ratio Lower Upper
 75 100
 110 9.2 15.6 46.8#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.732 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW011761.D
 Acq: 07 Aug 2019 19:30

Tgt Ion: 117 Resp: 20523
 Ion Ratio Lower Upper
 117 100
 119 6.4 75.8 113.6#
 121 0.0 24.7 37.1#

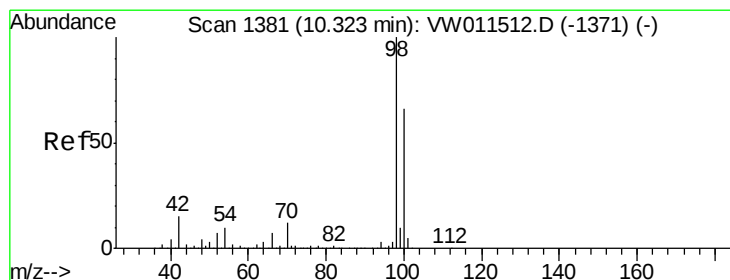
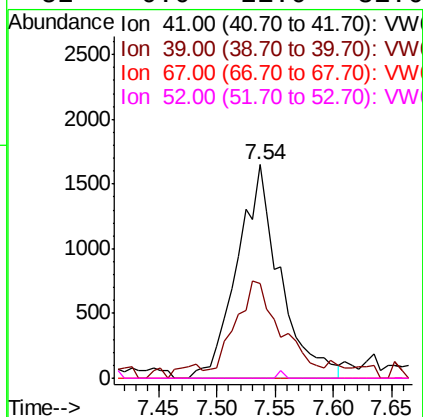
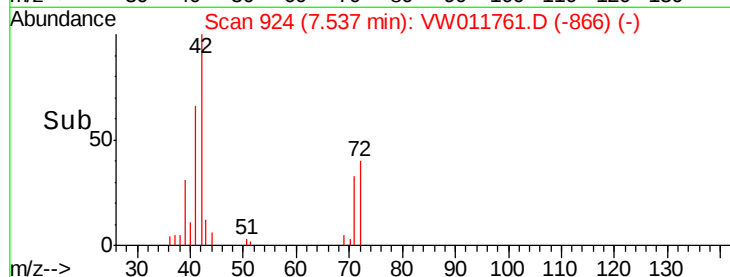
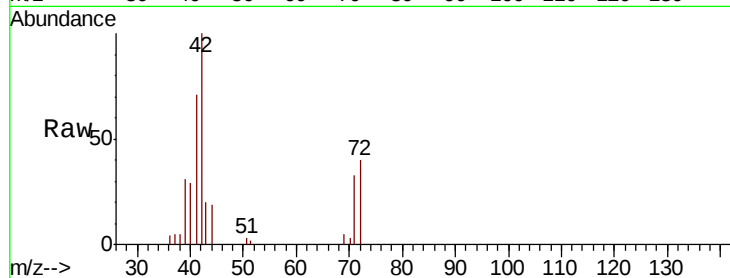




#41
Methacrylonitrile
Concen: 3.443 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW011761.D
Acq: 07 Aug 2019 19:30

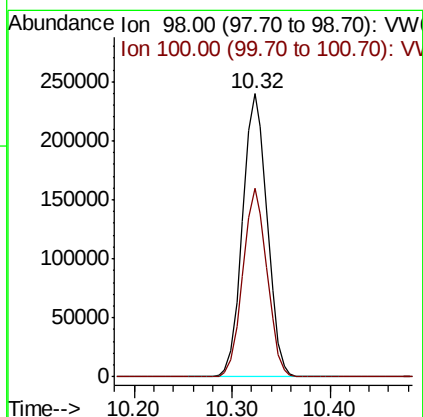
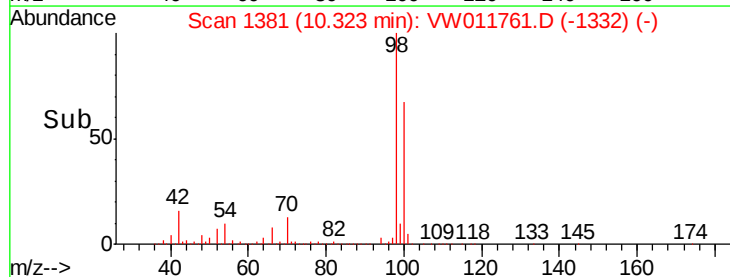
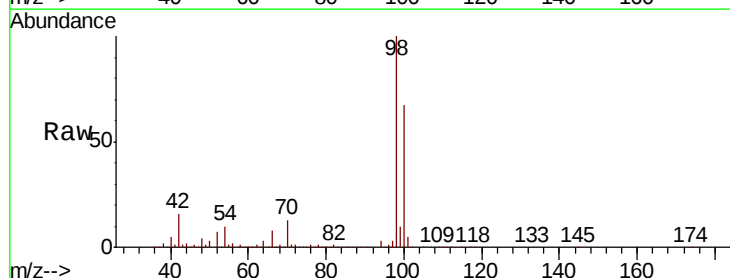
Instrument :
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ClientSampleId :
EO-01-080719-C

Tgt Ion:	41	Resp:	4217
Ion	Ratio	Lower	Upper
41	100		
39	43.6	43.0	64.4
67	0.0	47.5	71.3#
52	0.0	21.0	31.6#



#50
Toluene-d8
Concen: 53.080 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011761.D
Acq: 07 Aug 2019 19:30

Tgt Ion:	98	Resp:	417553
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.7	79.1





#62

4-Bromofluorobenzene

Concen: 45.725 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

EO-01-080719-C

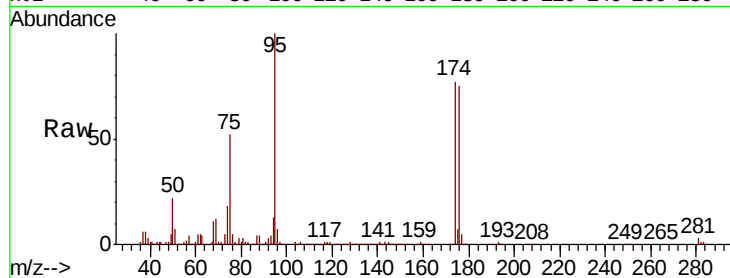
Tgt Ion: 95 Resp: 128237

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

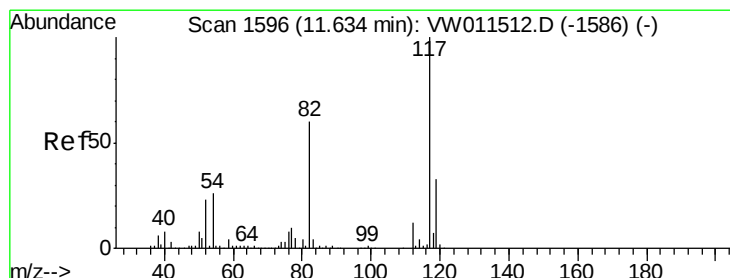
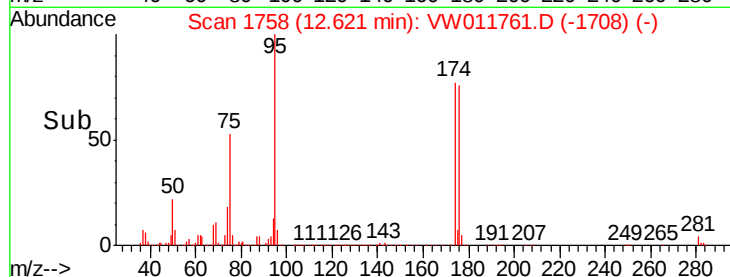
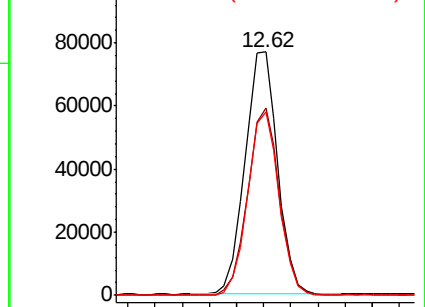
176 73.2 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

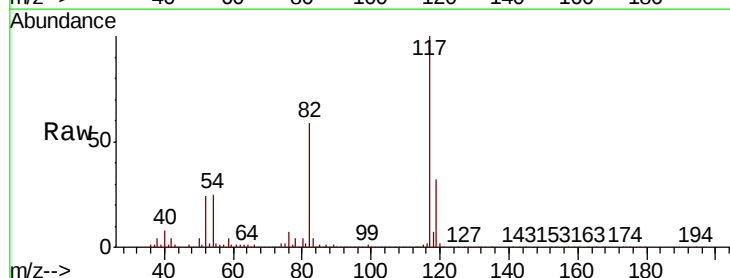
Tgt Ion: 117 Resp: 280592

Ion Ratio Lower Upper

117 100

82 59.1 47.9 71.9

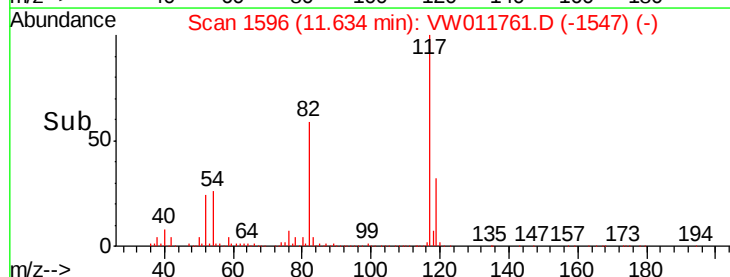
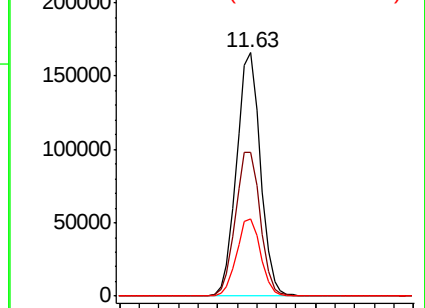
119 31.9 26.2 39.2

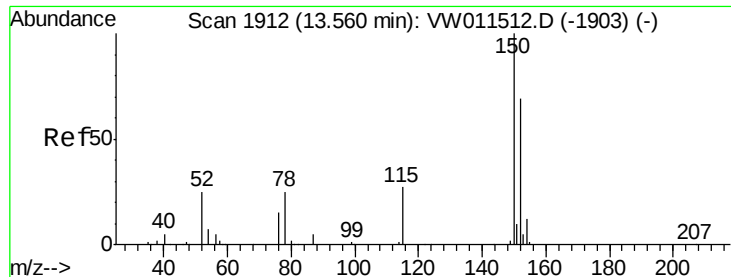


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

EO-01-080719-C

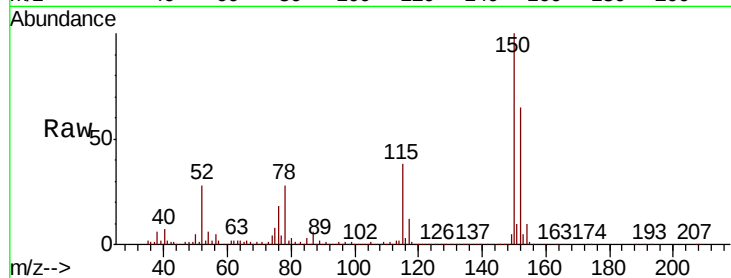
Tgt Ion:152 Resp: 99426

Ion Ratio Lower Upper

152 100

115 61.9 30.5 91.5

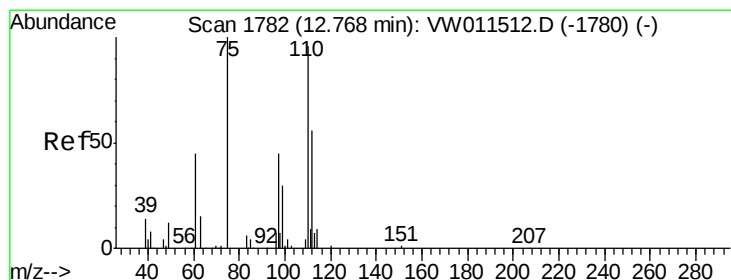
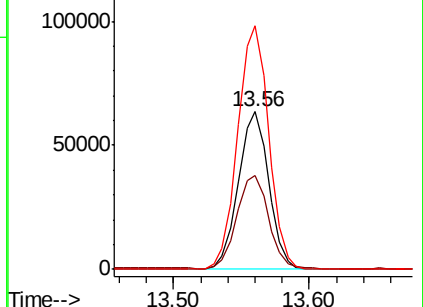
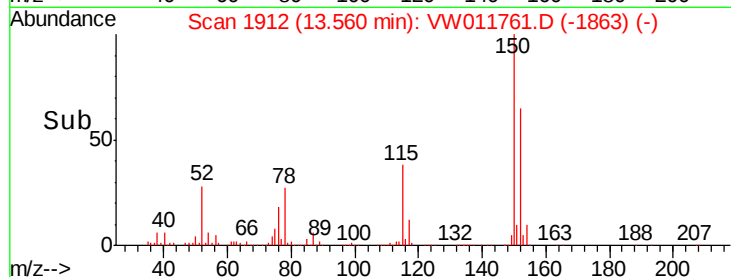
150 157.2 0.0 352.6



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: 65.379 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011761.D

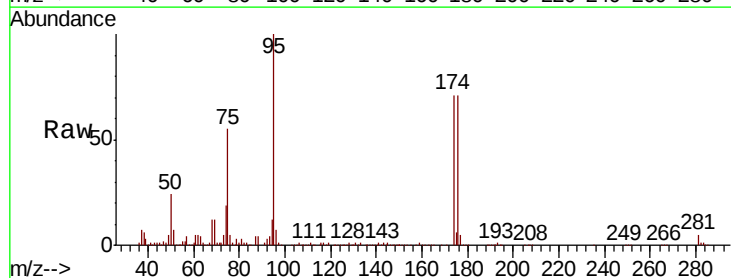
Acq: 07 Aug 2019 19:30

Tgt Ion: 75 Resp: 68781

Ion Ratio Lower Upper

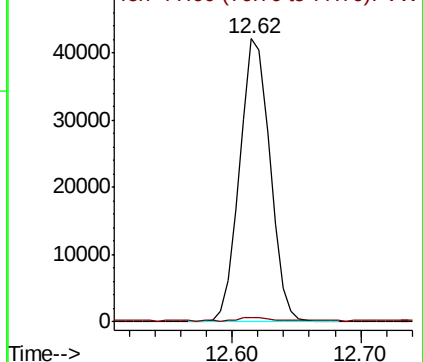
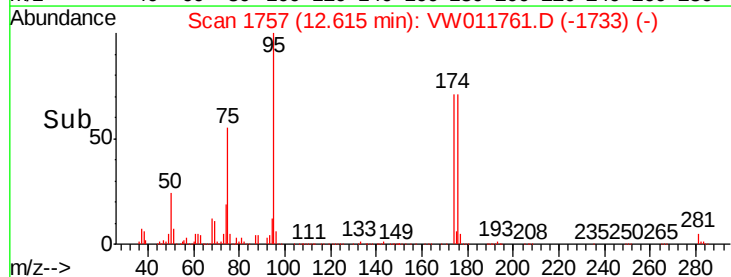
75 100

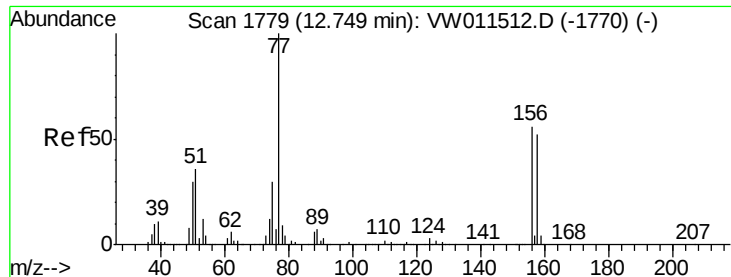
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.328 ug/l

RT: 12.86 min Scan# 1797

Delta R.T. 0.11 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

EO-01-080719-C

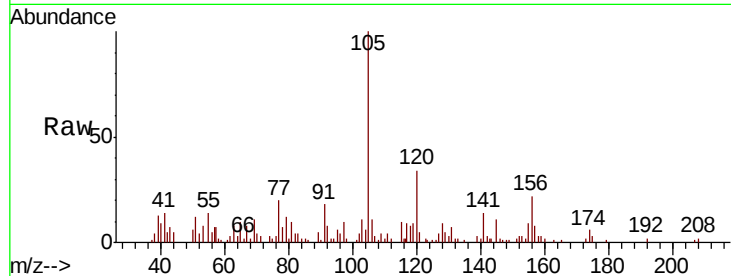
Tgt Ion:156 Resp: 3816

Ion Ratio Lower Upper

156 100

77 93.8 106.5 319.4#

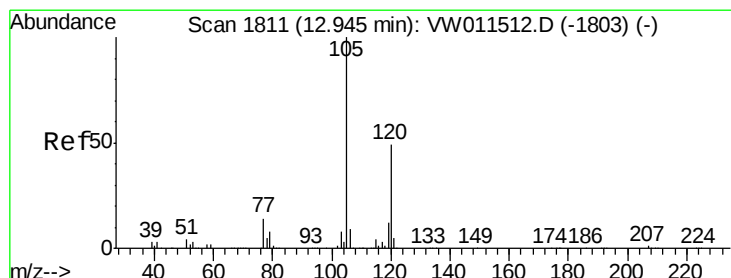
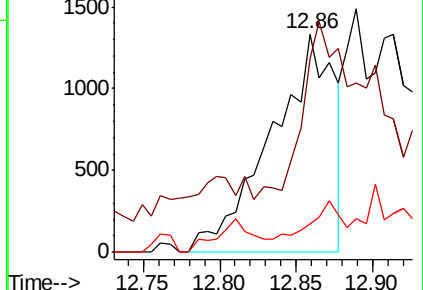
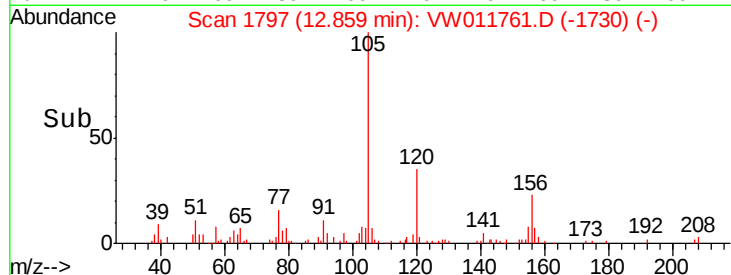
158 9.2 48.0 144.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 2.754 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW011761.D

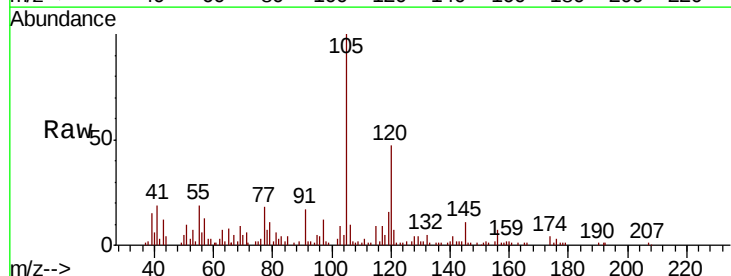
Acq: 07 Aug 2019 19:30

Tgt Ion:105 Resp: 17124

Ion Ratio Lower Upper

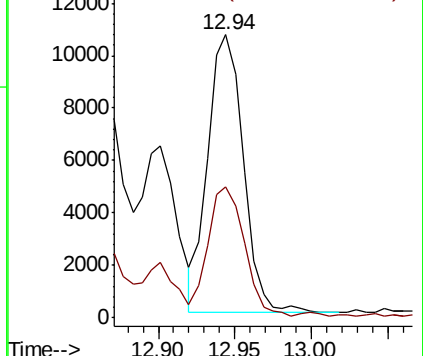
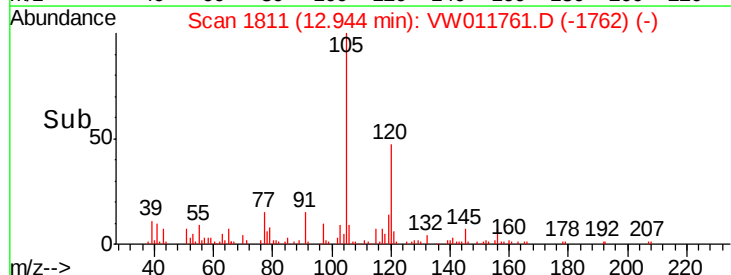
105 100

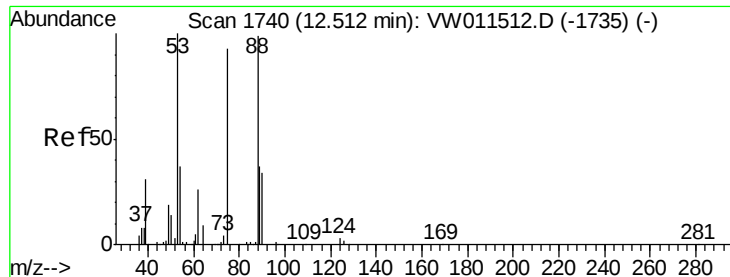
120 47.9 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 150.675 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

EO-01-080719-C

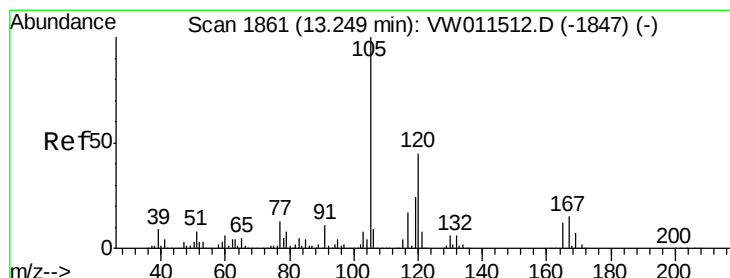
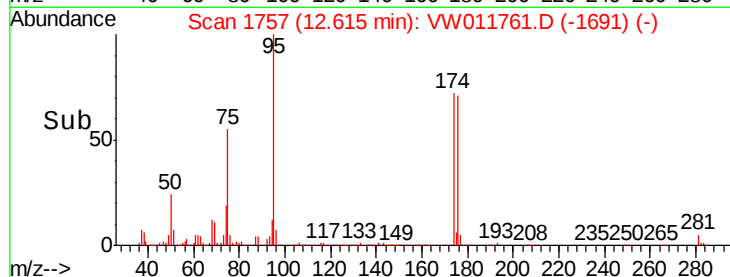
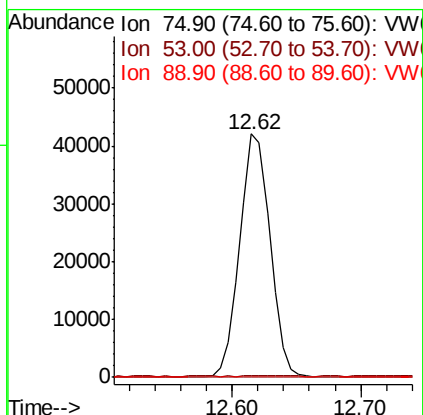
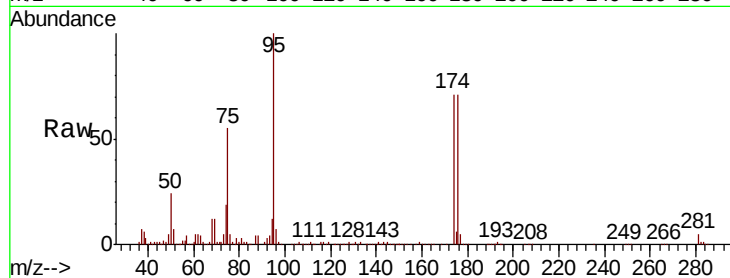
Tgt Ion: 75 Resp: 68781

Ion Ratio Lower Upper

75 100

53 0.5 88.0 132.0#

89 0.0 35.3 52.9#



#84

1,2,4-Trimethylbenzene

Concen: 3.455 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW011761.D

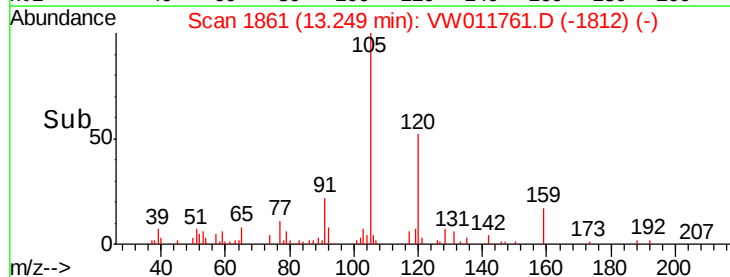
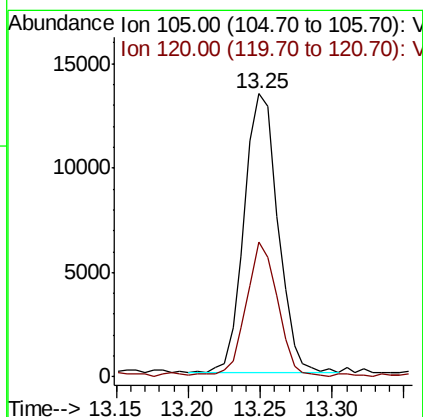
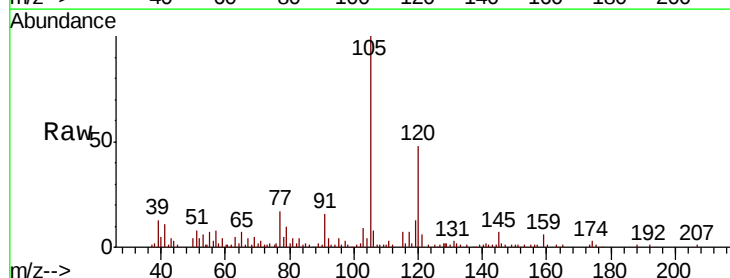
Acq: 07 Aug 2019 19:30

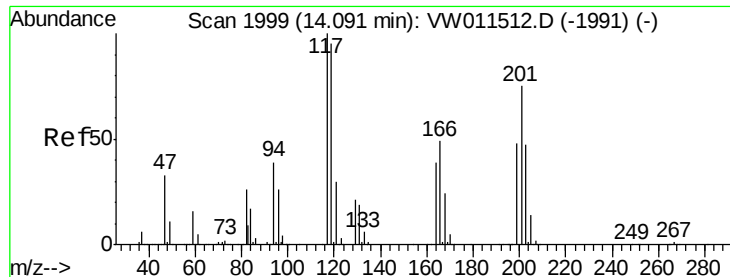
Tgt Ion: 105 Resp: 21640

Ion Ratio Lower Upper

105 100

120 44.2 22.1 66.5





#90

Hexachloroethane

Concen: 2.664 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

Instrument :

MSVOA_W

ClientSampleId :

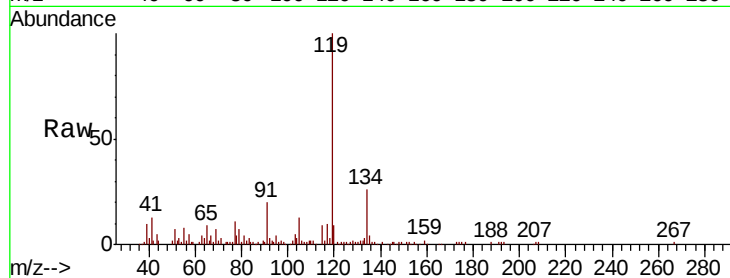
EO-01-080719-C

Tgt Ion:117 Resp: 3171

Ion Ratio Lower Upper

117 100

201 0.0 39.4 118.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.10

2500

2000

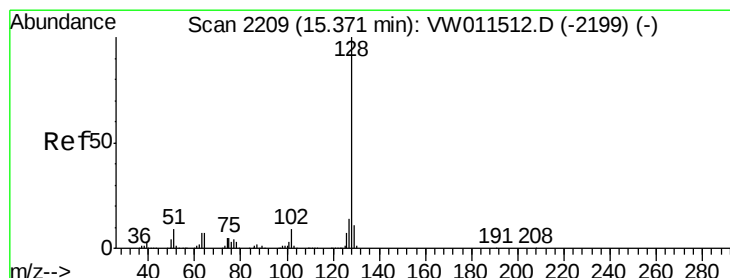
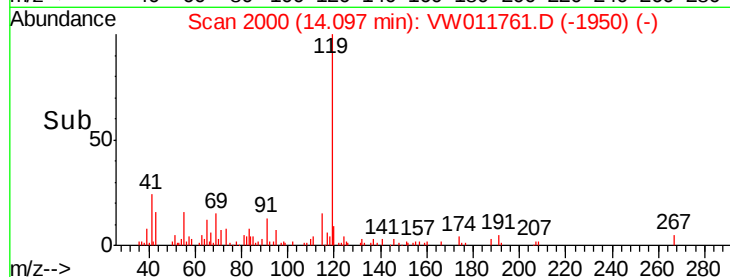
1500

1000

500

0

Time--> 14.05 14.10



#95

Naphthalene

Concen: 2.667 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011761.D

Acq: 07 Aug 2019 19:30

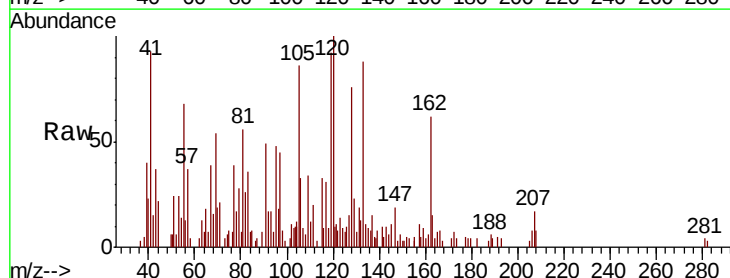
Tgt Ion:128 Resp: 2460

Ion Ratio Lower Upper

128 100

127 9.7 10.6 16.0#

129 11.7 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

2500

2000

1500

1000

500

0

Time--> 15.25 15.30 15.35 15.40

