

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072019\
 Data File : VW011409.D
 Acq On : 20 Jul 2019 07:30
 Operator : SY/VA
 Sample : K3615-03
 Misc : 6.09G/5ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HR-06-071719-B

Quant Time: Jul 22 01:00:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 11 08:14:17 2019
 Response via : Initial Calibration

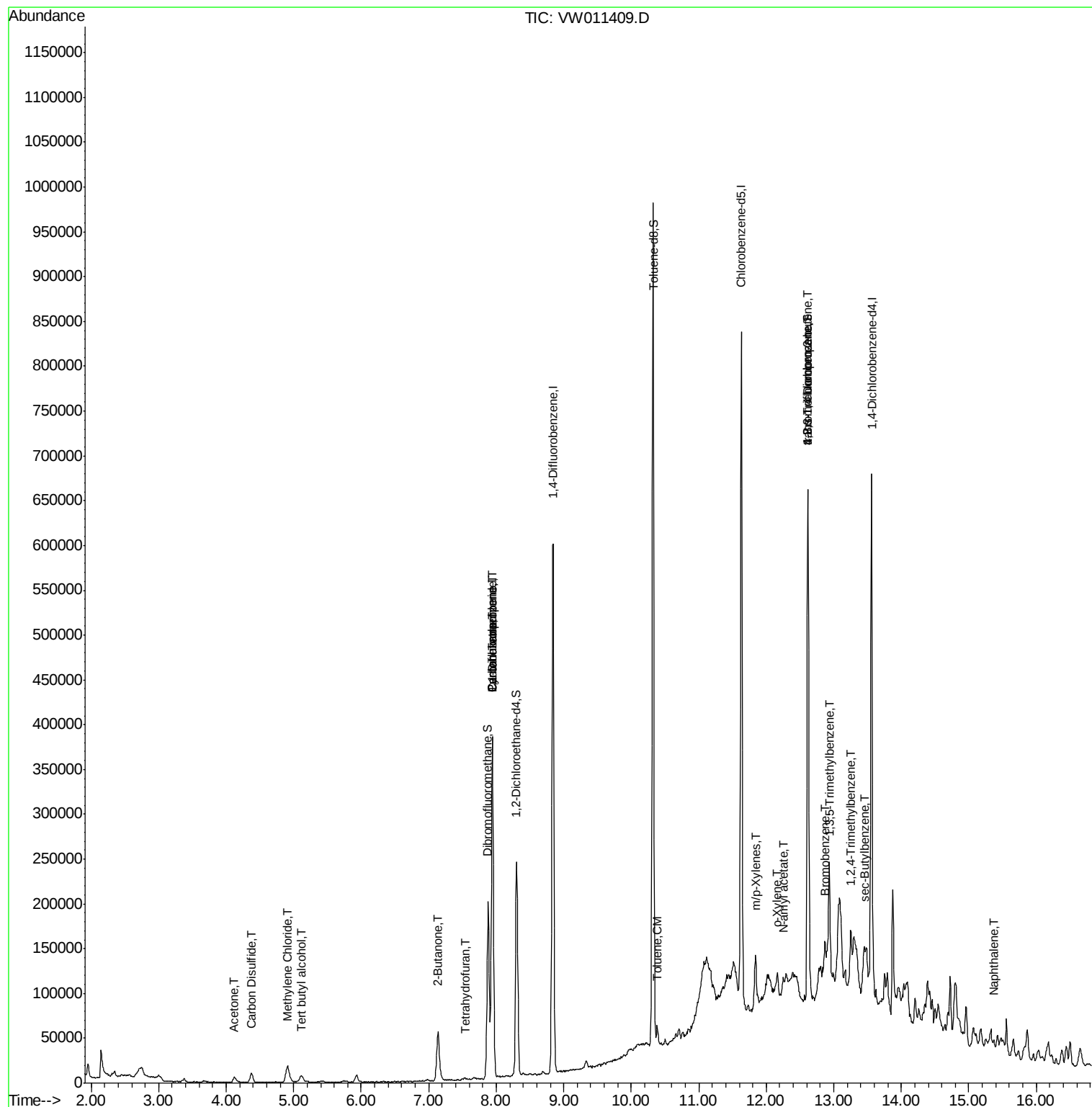
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	282563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	479765	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	399412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	145327	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	184371	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	
35) Dibromofluoromethane	7.88	113	139711	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
50) Toluene-d8	10.32	98	597742	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	
62) 4-Bromofluorobenzene	12.62	95	190449	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.11	59	7817	29.737	ug/l #	74
16) Acetone	4.12	43	10515	12.308	ug/l	99
17) Carbon Disulfide	4.37	76	21238	2.232	ug/l	97
18) Methyl Acetate	4.68	43	574	Below Cal	#	57
20) Methylene Chloride	4.91	84	12512	3.713	ug/l	99
25) 2-Butanone	7.14	43	3952	2.947	ug/l #	85
29) Tetrahydrofuran	7.53	42	1898	2.158	ug/l #	89
31) Cyclohexane	7.95	56	8175	1.189	ug/l #	2
36) 1,1-Dichloropropene	7.94	75	24471	4.790	ug/l #	52
38) Carbon Tetrachloride	7.94	117	28361	6.548	ug/l #	15
52) Toluene	10.38	92	8682	1.014	ug/l	94
68) m/p-Xylenes	11.84	106	9439	1.678	ug/l	80
69) o-Xylene	12.16	106	6967	1.314	ug/l	78
74) N-amyl acetate	12.25	43	4991	1.319	ug/l #	65
76) 1,2,3-Trichloropropane	12.62	75	99497	59.244	ug/l #	100
77) Bromobenzene	12.87	156	45241	18.556	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	18540	2.009	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	99497	133.999	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	29620	3.196	ug/l	93
85) sec-Butylbenzene	13.46	105	13463	1.212	ug/l	90
95) Naphthalene	15.36	128	5765	1.026	ug/l #	89

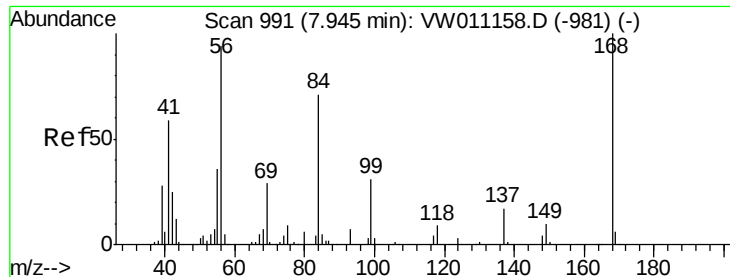
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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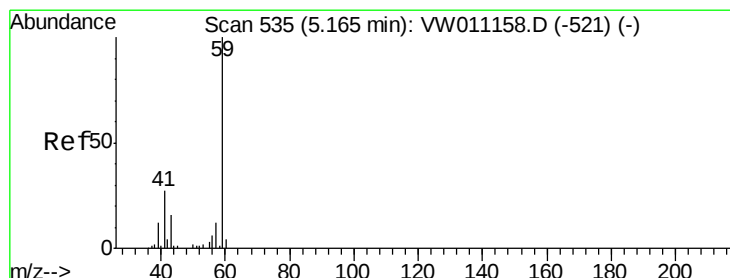
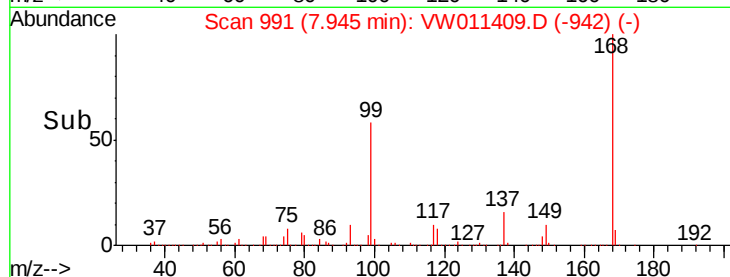
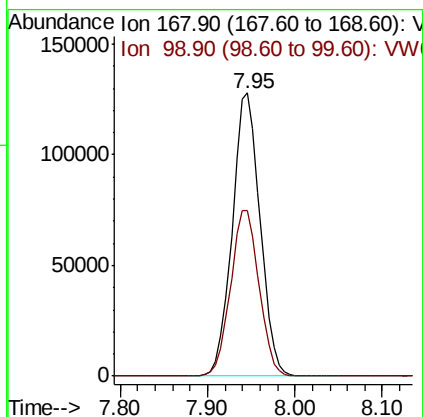
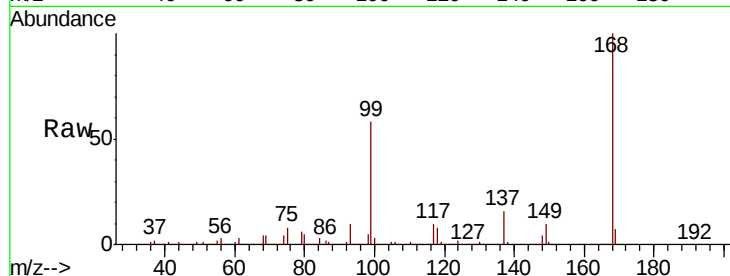




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.95 min Scan# 991
Delta R.T. 0.00 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

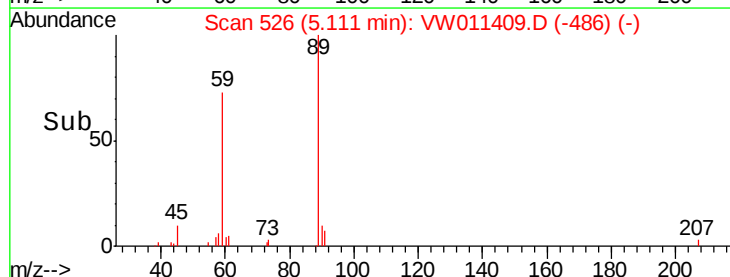
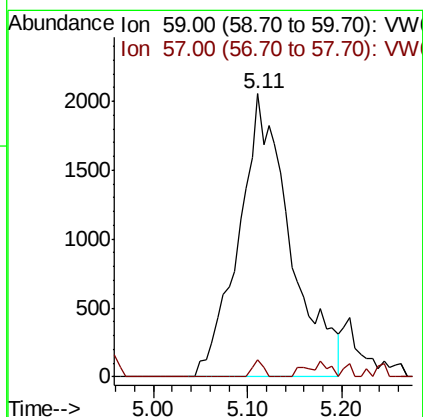
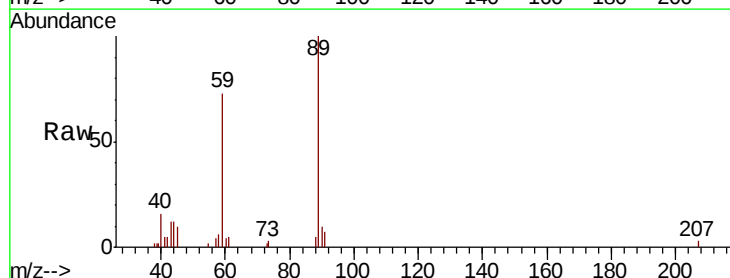
Instrument :
MSVOA_W
ClientSampleId :
HR-06-071719-B

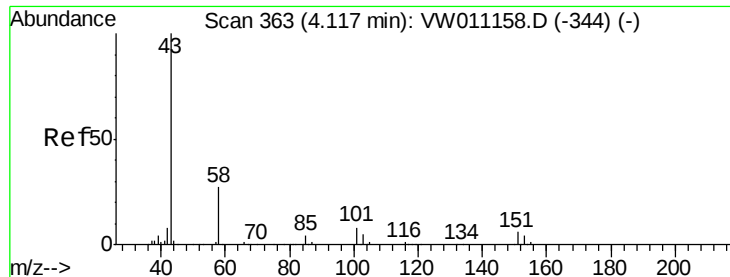
Tot Ion:168 Resp: 282563
Ion Ratio Lower Upper
168 100
99 58.3 50.1 75.1



#11
Tert butyl alcohol
Concen: 29.737 ug/l
RT: 5.11 min Scan# 526
Delta R.T. -0.05 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

Tgt Ion: 59 Resp: 7817
Ion Ratio Lower Upper
59 100
57 1.2 9.0 13.6#





#16

Acetone

Concen: 12.308 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :

MSVOA_W

ClientSampleId :

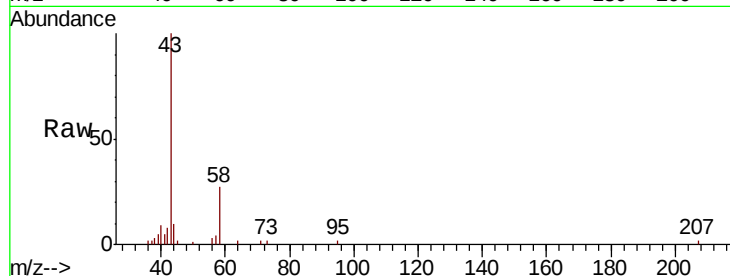
HR-06-071719-B

Tot Ion: 43 Resp: 10515

Ion Ratio Lower Upper

43 100

58 27.9 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

4000

3000

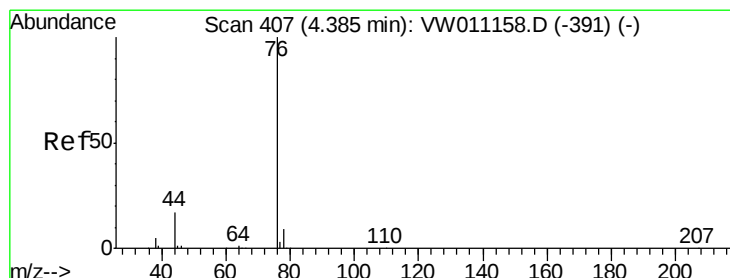
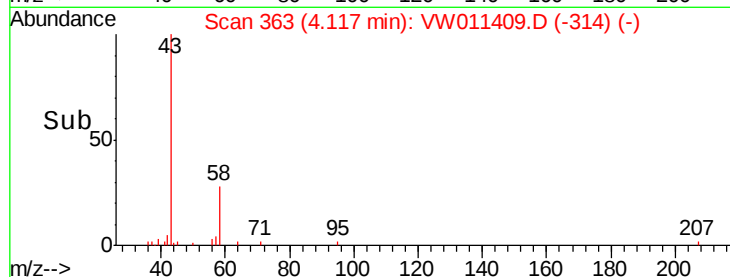
2000

1000

0

Time-->

4.00 4.10 4.20



#17

Carbon Disulfide

Concen: 2.232 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW011409.D

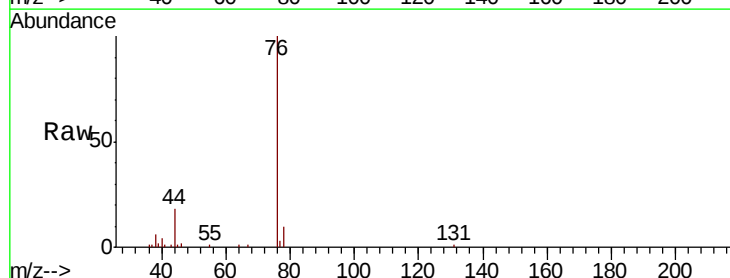
Acq: 20 Jul 2019 07:30

Tgt Ion: 76 Resp: 21238

Ion Ratio Lower Upper

76 100

78 10.1 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.37

8000

6000

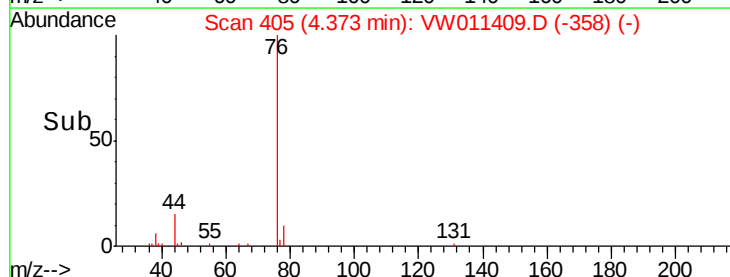
4000

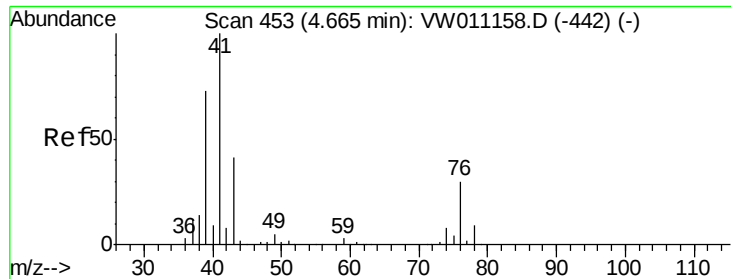
2000

0

Time-->

4.30 4.40

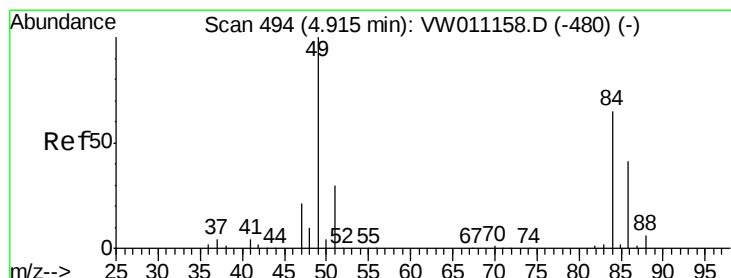
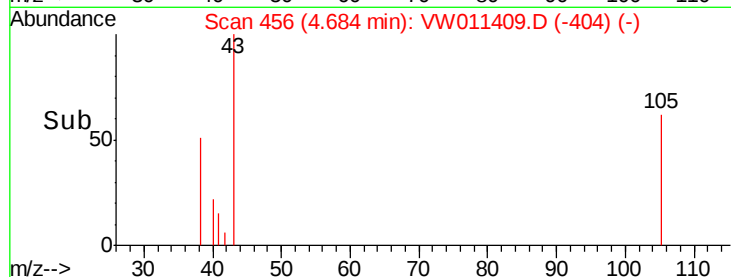
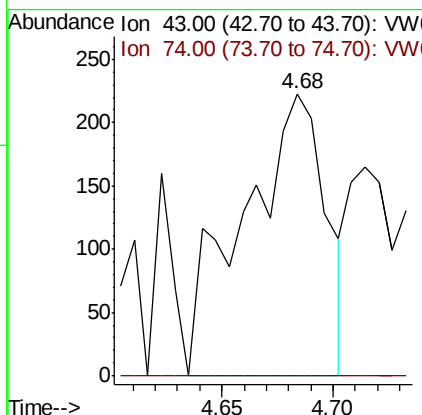
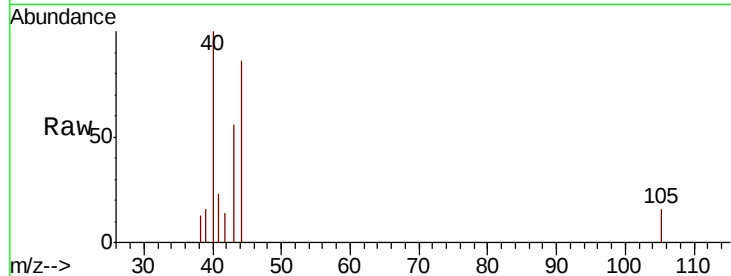




#18
Methyl Acetate
Concen: Below Cal
RT: 4.68 min Scan# 456
Delta R.T. 0.02 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

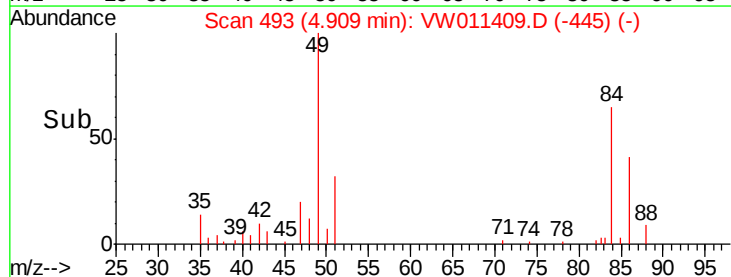
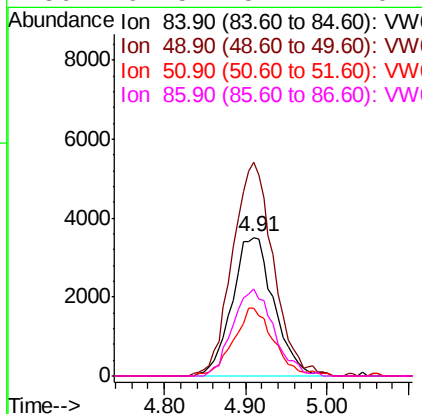
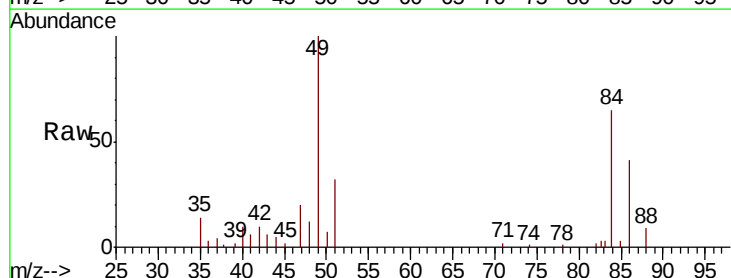
Instrument :
MSVOA_W
ClientSampleId :
HR-06-071719-B

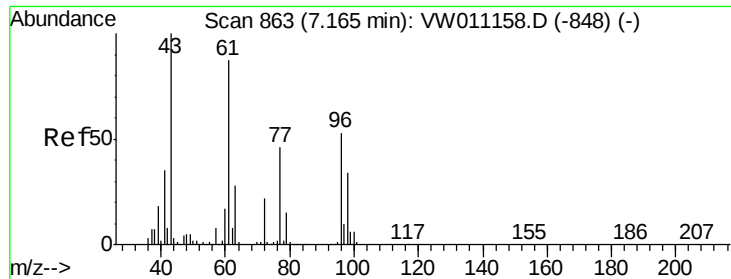
Tot Ion: 43 Resp: 574
Ion Ratio Lower Upper
43 100
74 0.0 15.7 23.5#



#20
Methylene Chloride
Concen: 3.713 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

Tgt Ion: 84 Resp: 12512
Ion Ratio Lower Upper
84 100
49 154.0 123.8 185.6
51 49.2 37.4 56.2
86 62.5 51.1 76.7





#25

2-Butanone

Concen: 2.947 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :

MSVOA_W

ClientSampled :

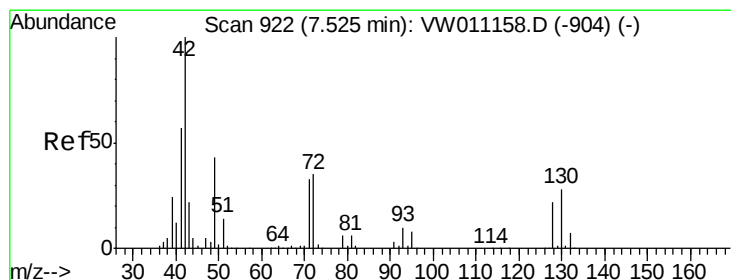
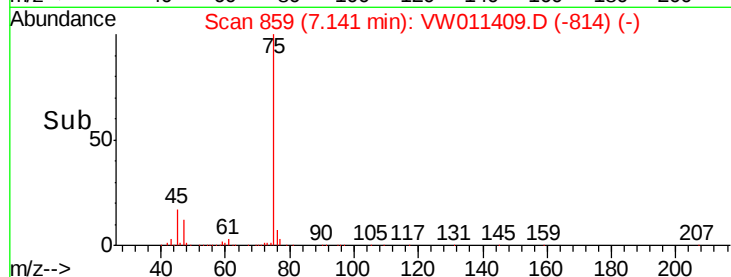
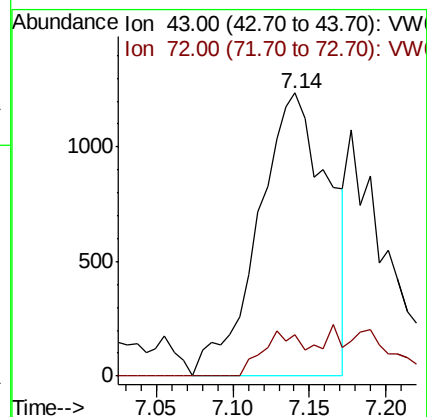
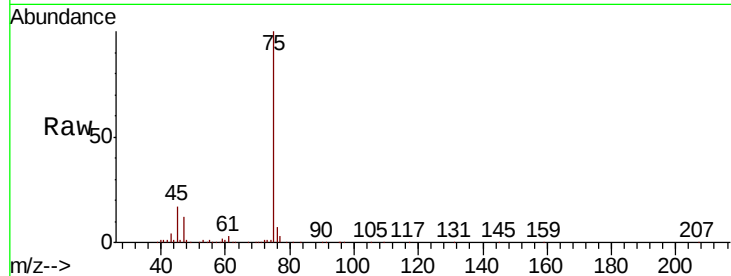
HR-06-071719-B

Tot Ion: 43 Resp: 3952

Ion Ratio Lower Upper

43 100

72 14.7 17.6 26.4#



#29

Tetrahydrofuran

Concen: 2.158 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

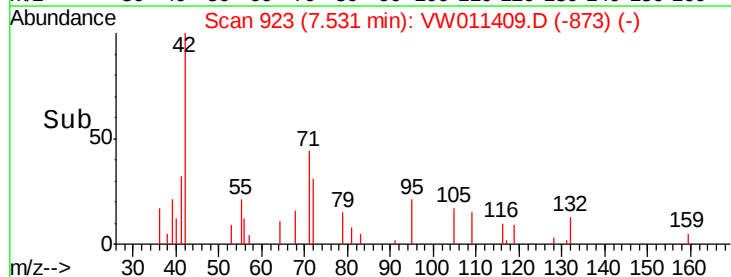
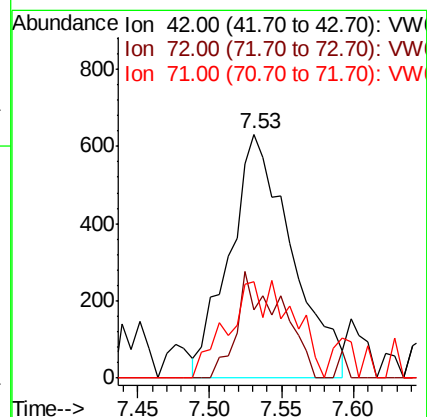
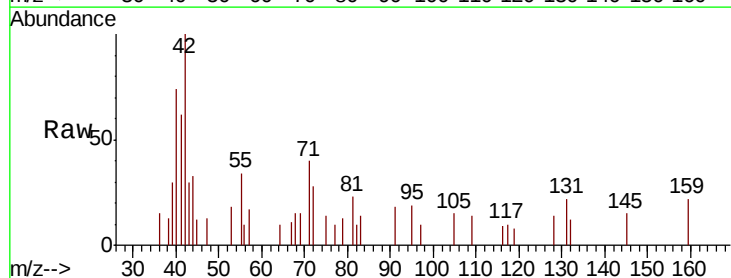
Tgt Ion: 42 Resp: 1898

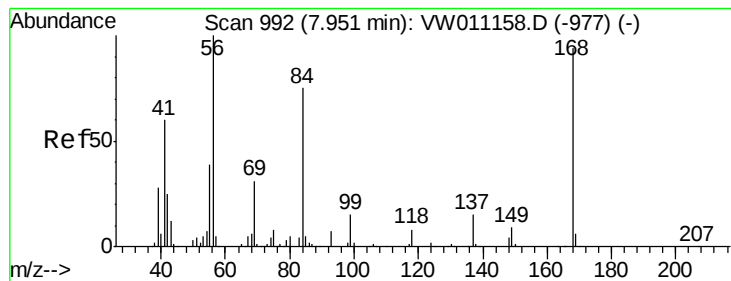
Ion Ratio Lower Upper

42 100

72 30.8 27.4 41.2

71 22.8 25.9 38.9#





#31

Cyclohexane

Concen: 1.189 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :
MSVOA_W
ClientSampleId :
HR-06-071719-B

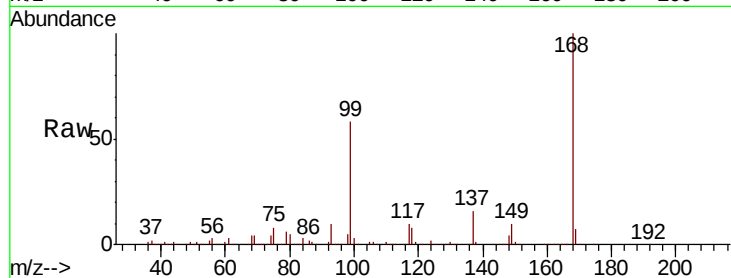
Tot Ion: 56 Resp: 8175

Ion Ratio Lower Upper

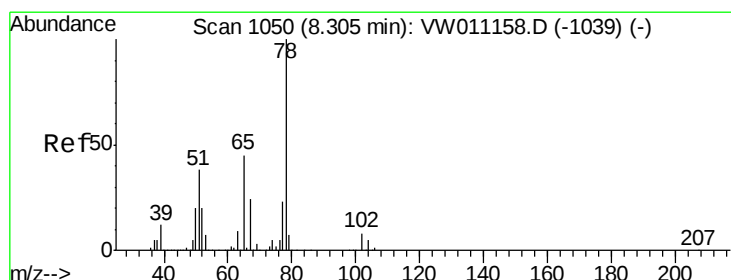
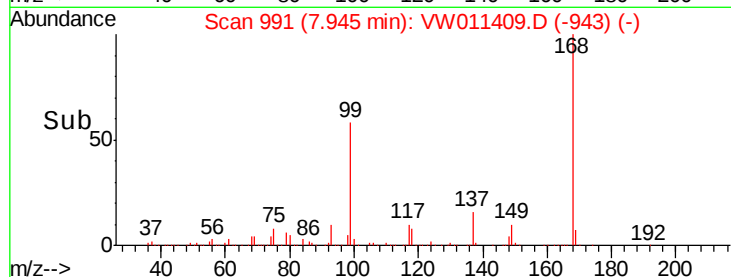
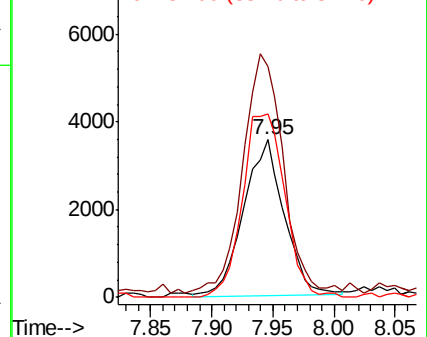
56 100

69 145.5 24.6 36.8#

84 119.1 60.1 90.1#



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: 51.928 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW011409.D

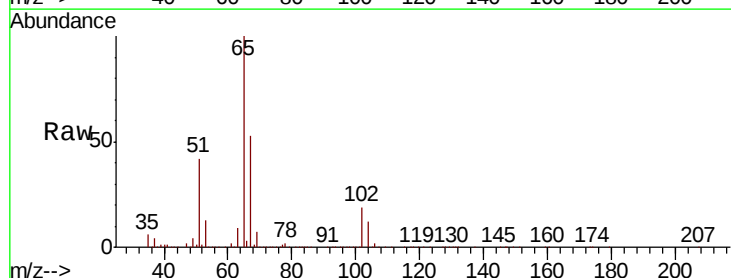
Acq: 20 Jul 2019 07:30

Tgt Ion: 65 Resp: 184371

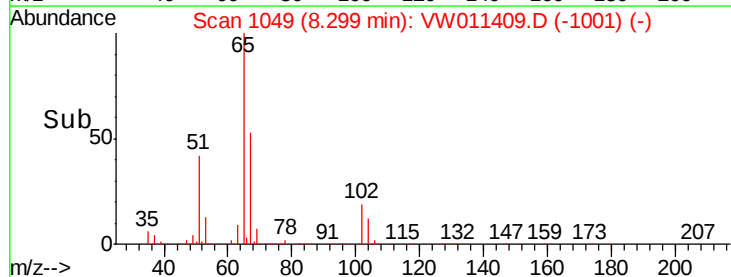
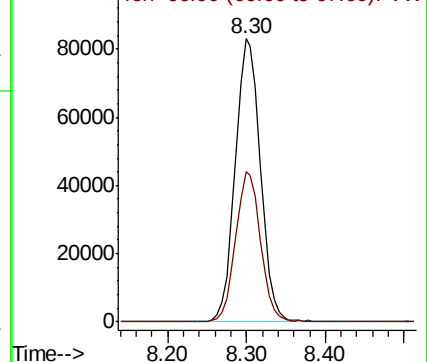
Ion Ratio Lower Upper

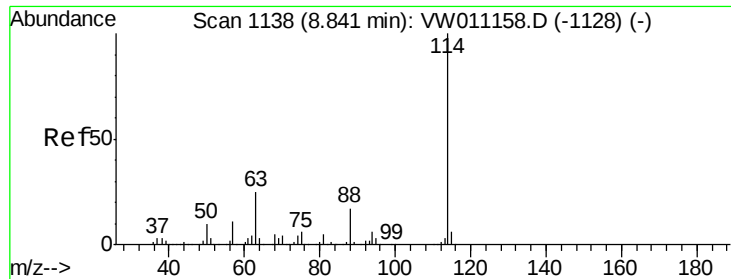
65 100

67 51.9 0.0 104.4



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: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :

MSVOA_W

ClientSampleId :

HR-06-071719-B

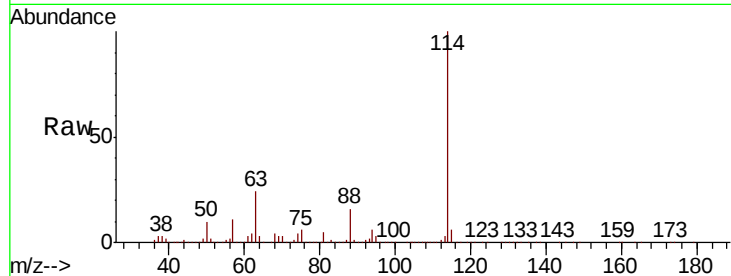
Tot Ion:114 Resp: 479765

Ion Ratio Lower Upper

114 100

63 23.6 0.0 50.8

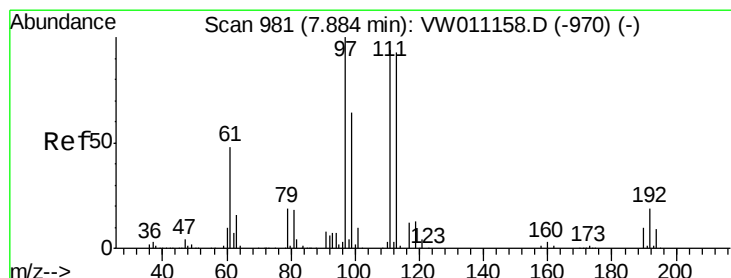
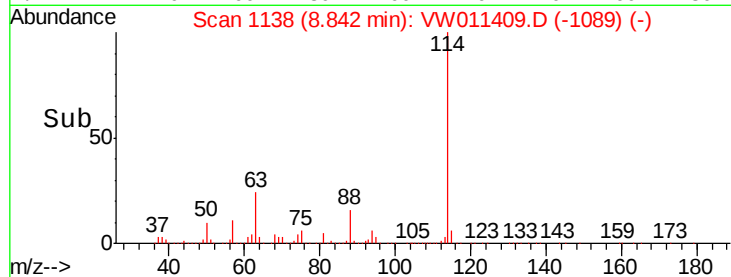
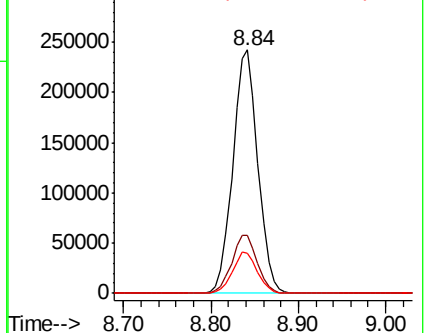
88 16.3 0.0 34.2



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: 48.857 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

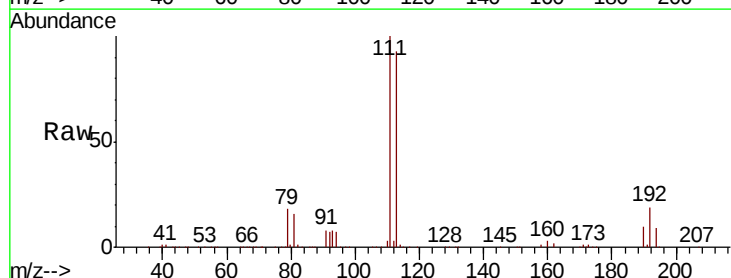
Tgt Ion:113 Resp: 139711

Ion Ratio Lower Upper

113 100

111 104.6 82.4 123.6

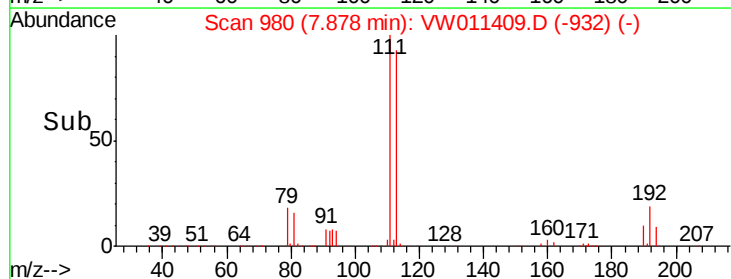
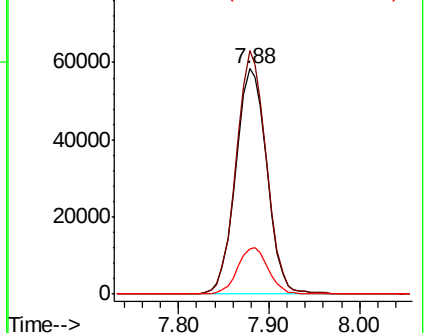
192 20.3 15.8 23.8

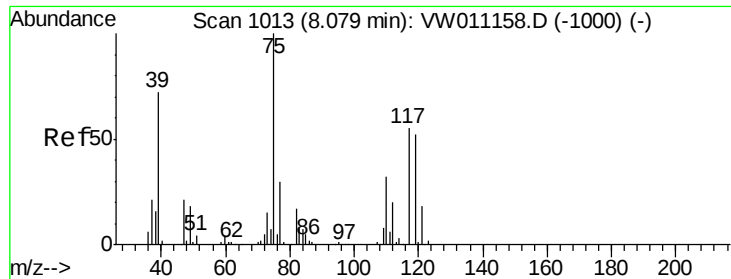


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

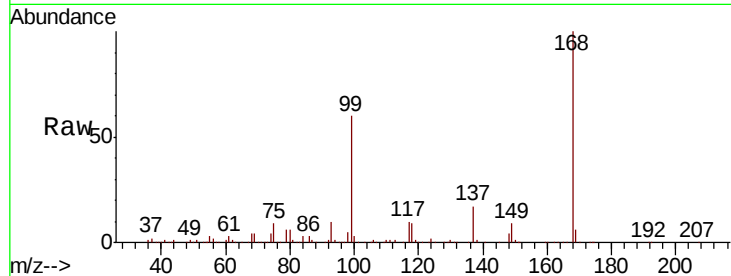




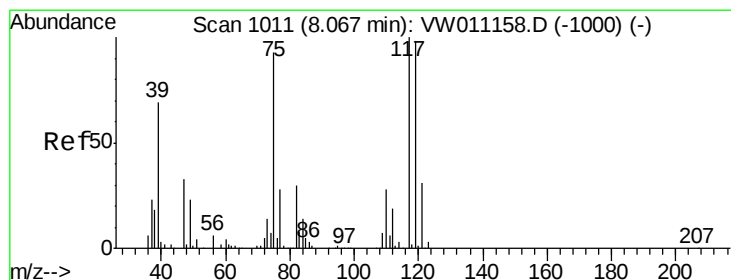
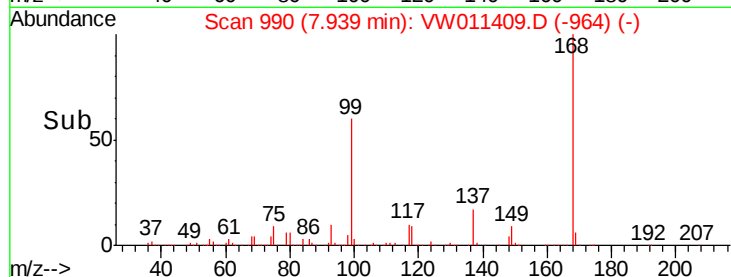
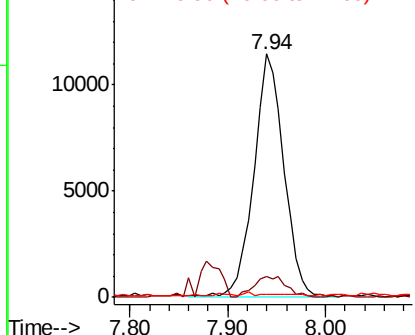
#36
 1,1-Dichloropropene
 Concen: 4.790 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

Instrument :
 MSVOA_W
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 HR-06-071719-B

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	15.9	47.6#
77	0.6	24.6	36.8#

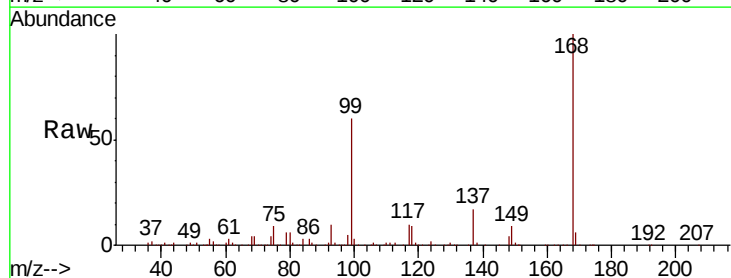


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

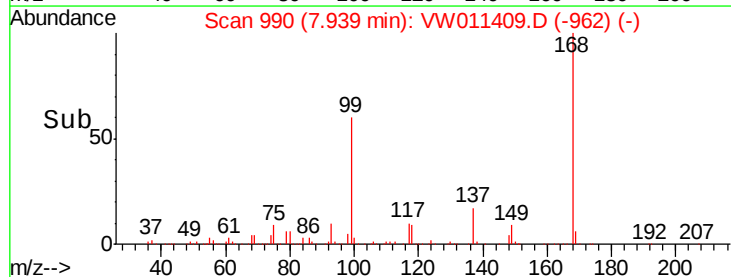
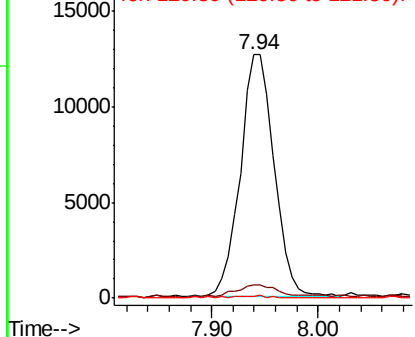


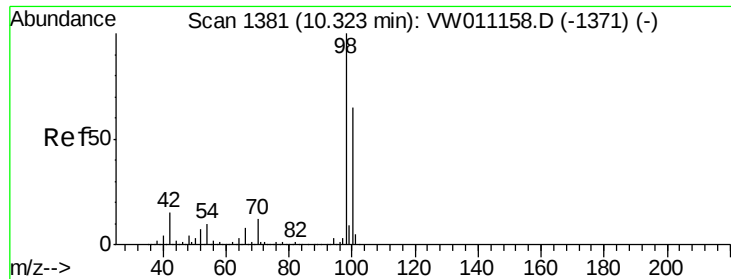
#38
 Carbon Tetrachloride
 Concen: 6.548 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.1	117.1#
121	0.5	25.1	37.7#



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





#50

Toluene-d8

Concen: 51.712 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :

MSVOA_W

ClientSampleId :

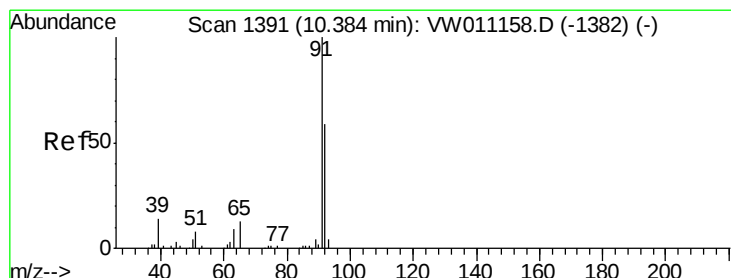
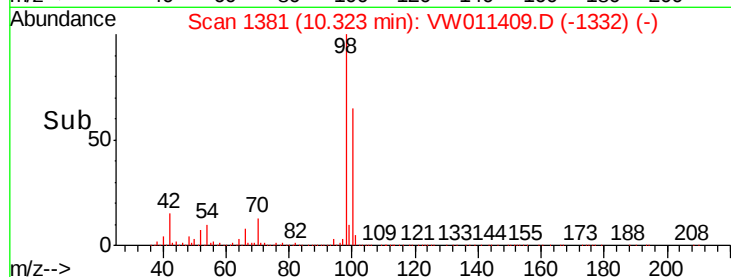
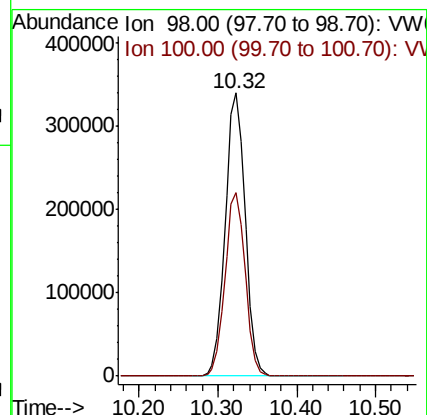
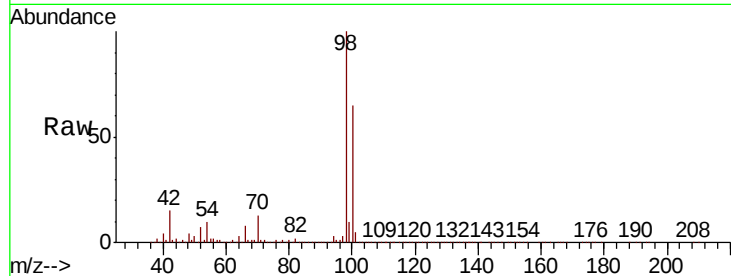
HR-06-071719-B

Tot Ion: 98 Resp: 597742

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6



#52

Toluene

Concen: 1.014 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011409.D

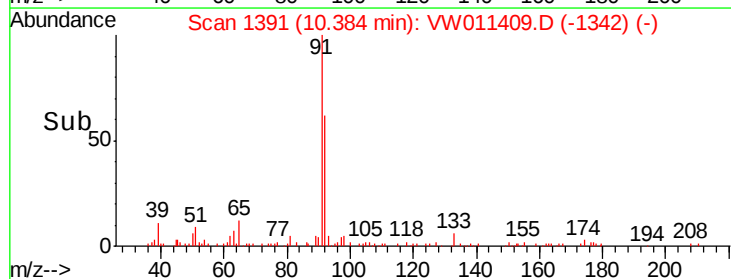
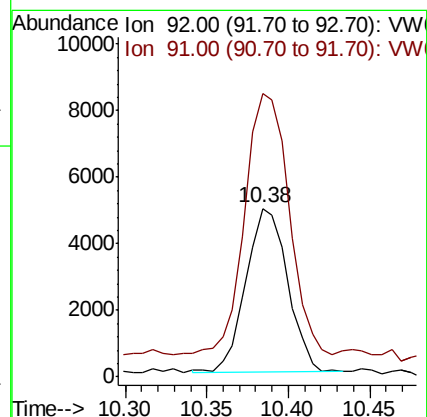
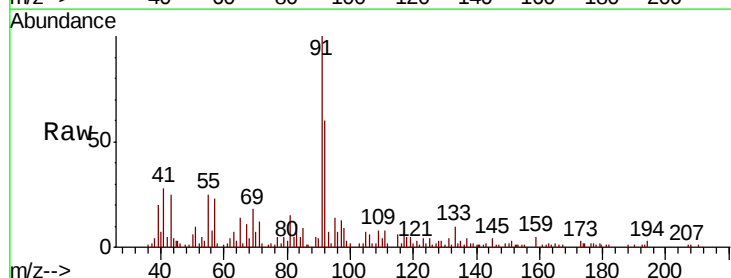
Acq: 20 Jul 2019 07:30

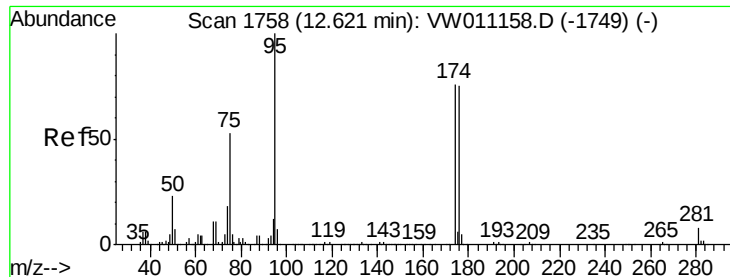
Tgt Ion: 92 Resp: 8682

Ion Ratio Lower Upper

92 100

91 178.5 136.6 205.0

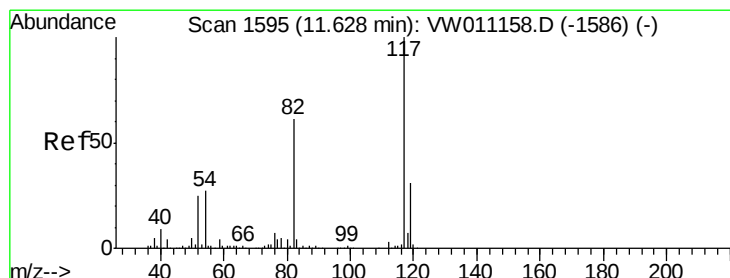
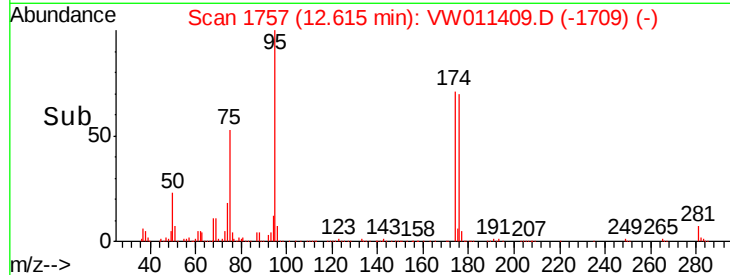
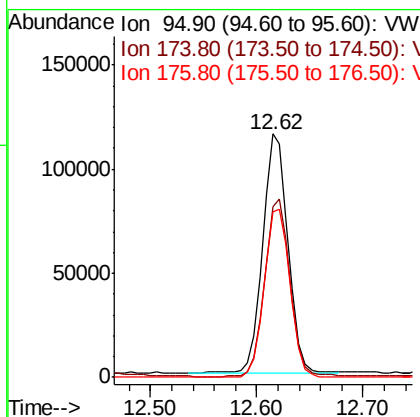
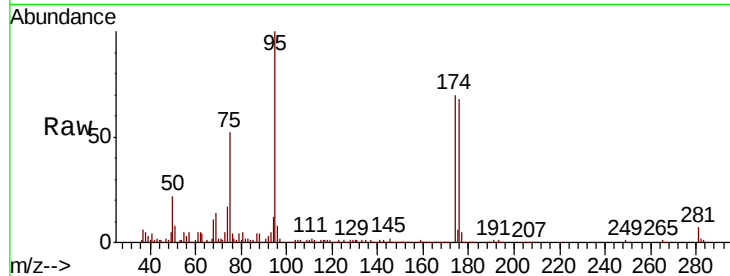




#62
4-Bromofluorobenzene
Concen: 44.951 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

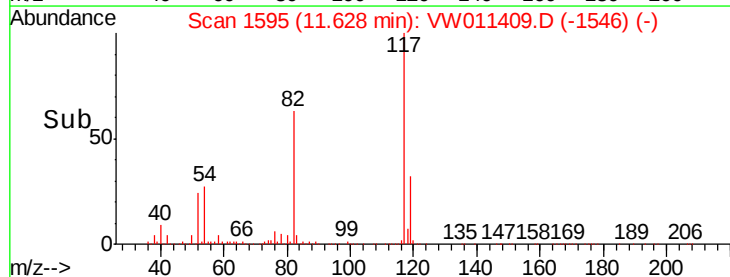
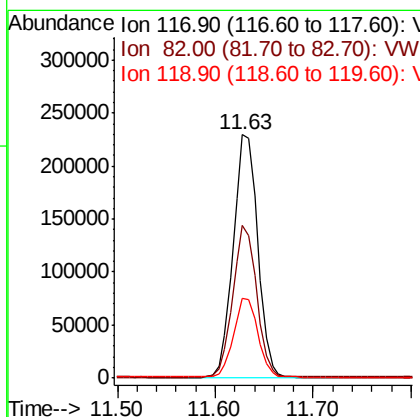
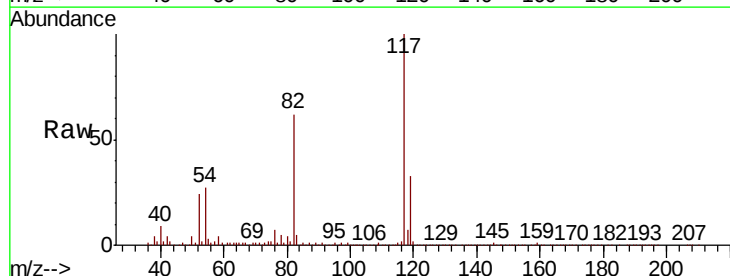
Instrument :
MSVOA_W
ClientSampleId :
HR-06-071719-B

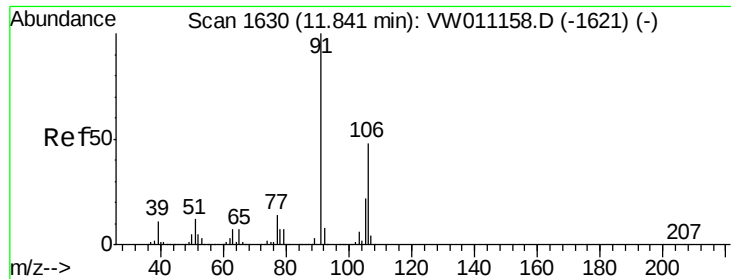
Tot Ion	95	Resp	190449
Ion Ratio	Lower	Upper	
95	100		
174	75.9	0.0	147.6
176	71.9	0.0	144.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

Tgt Ion	117	Resp	399412
Ion Ratio	Lower	Upper	
117	100		
82	62.2	48.9	73.3
119	32.4	25.0	37.6

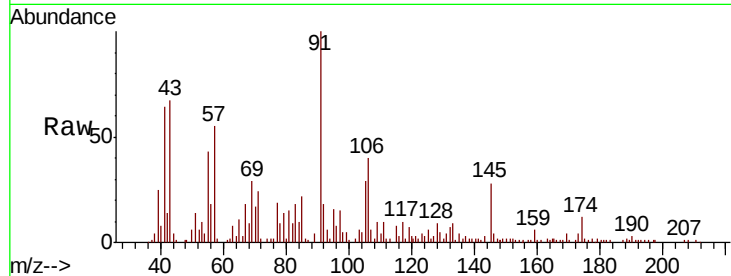




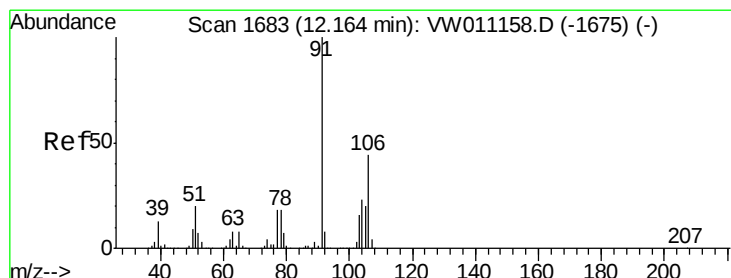
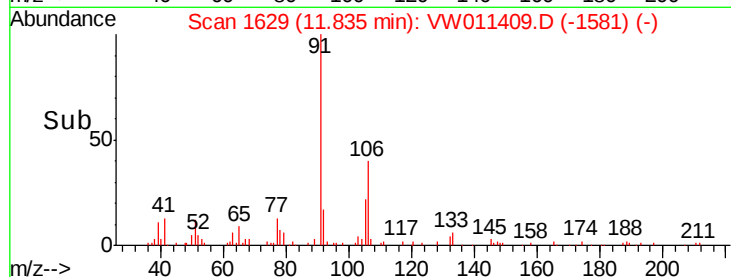
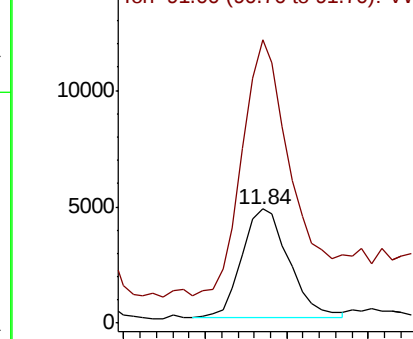
#68
m/p-Xylenes
Concen: 1.678 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

Instrument :
MSVOA_W
ClientSampleId :
HR-06-071719-B

Tot Ion:106 Resp: 9439
Ion Ratio Lower Upper
106 100
91 241.4 167.7 251.5

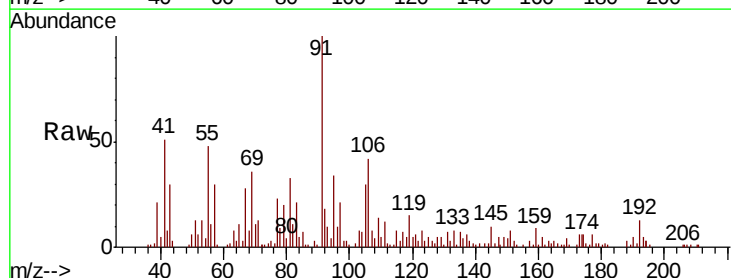


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

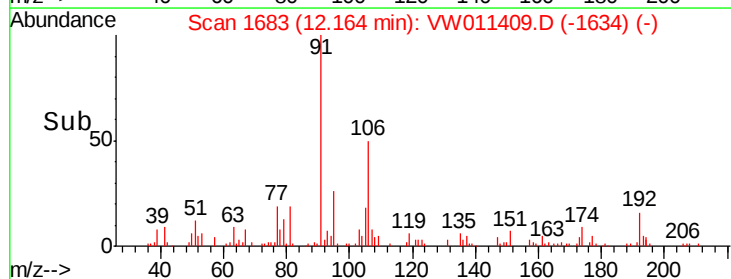
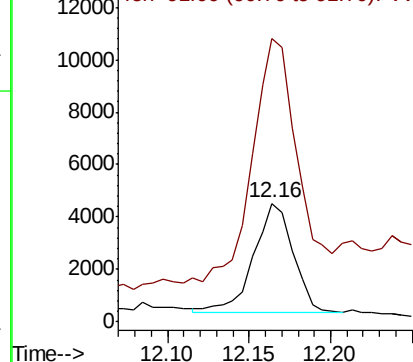


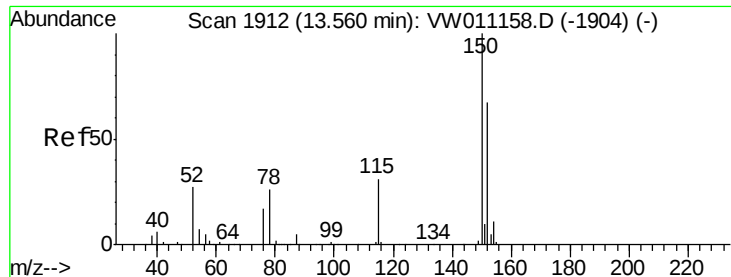
#69
o-Xylene
Concen: 1.314 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011409.D
Acq: 20 Jul 2019 07:30

Tgt Ion:106 Resp: 6967
Ion Ratio Lower Upper
106 100
91 256.9 110.7 332.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): 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: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :

MSVOA_W

ClientSampleId :

HR-06-071719-B

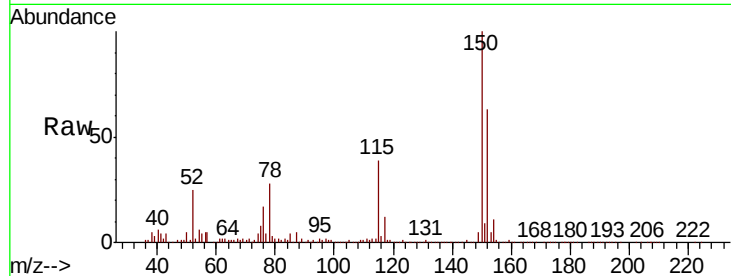
Tot Ion:152 Resp: 145327

Ion Ratio Lower Upper

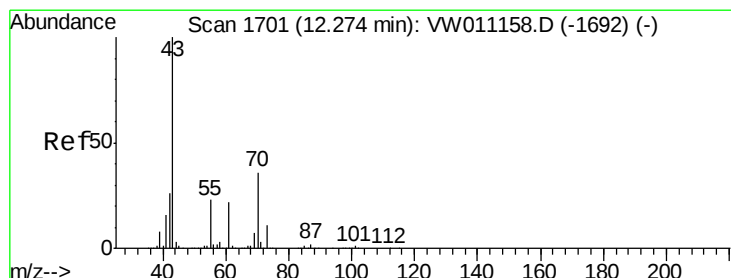
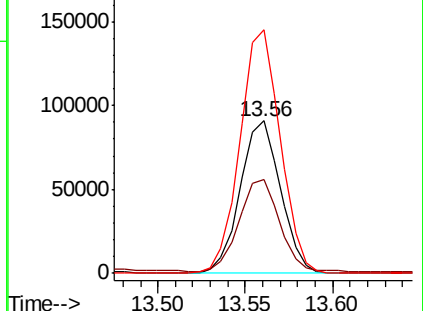
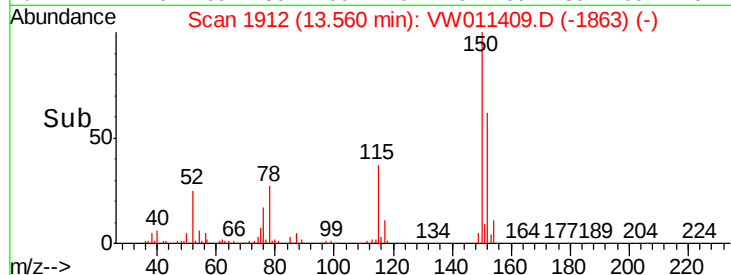
152 100

115 61.7 30.1 90.3

150 159.5 0.0 346.0



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



#74

N-ethyl acetate

Concen: 1.319 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

Tgt Ion: 43 Resp: 4991

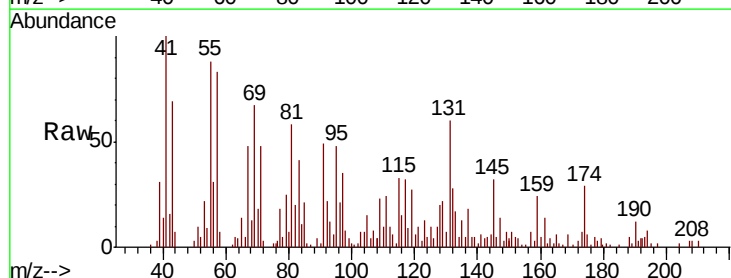
Ion Ratio Lower Upper

43 100

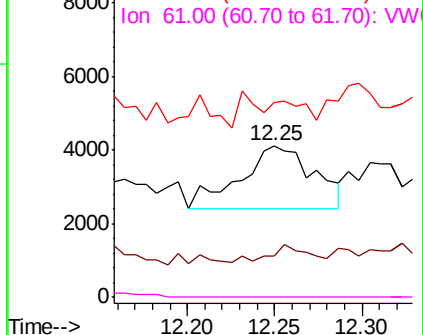
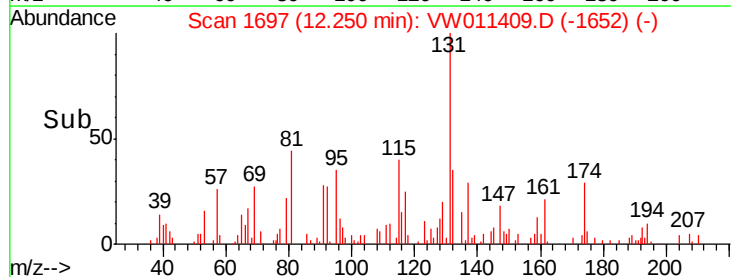
70 13.0 28.5 42.7#

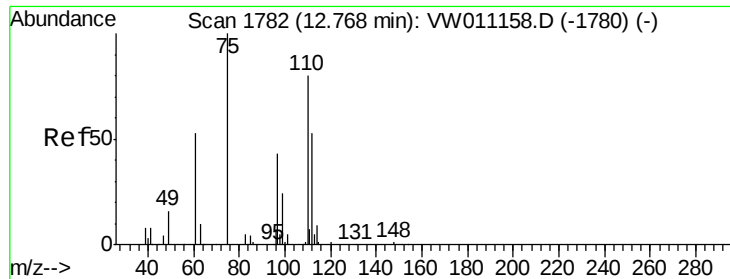
55 13.5 18.1 27.1#

61 0.0 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW

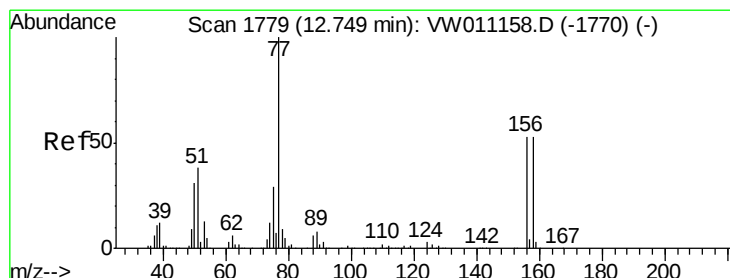
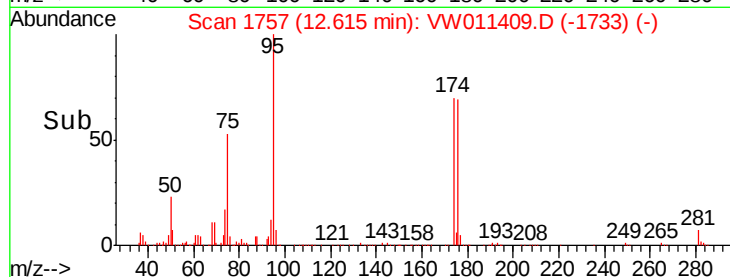
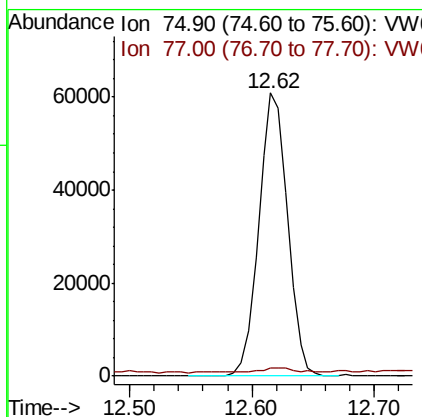
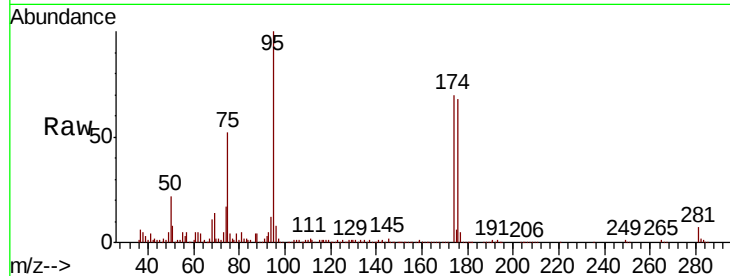




#76
 1,2,3-Trichloropropane
 Concen: 59.244 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

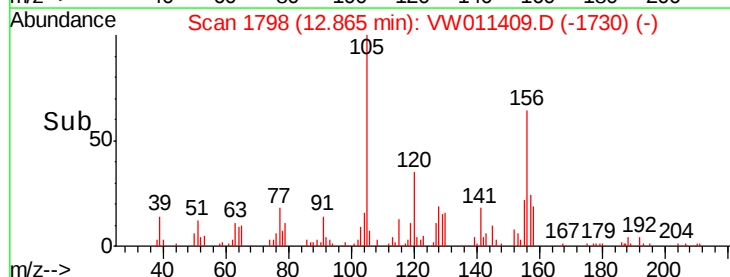
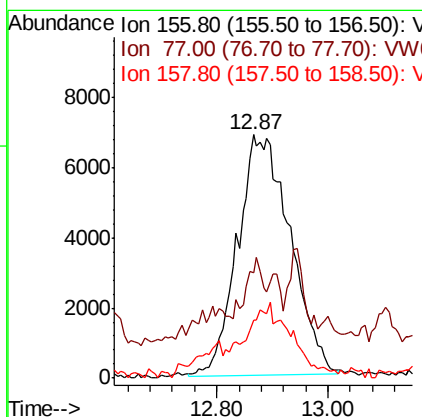
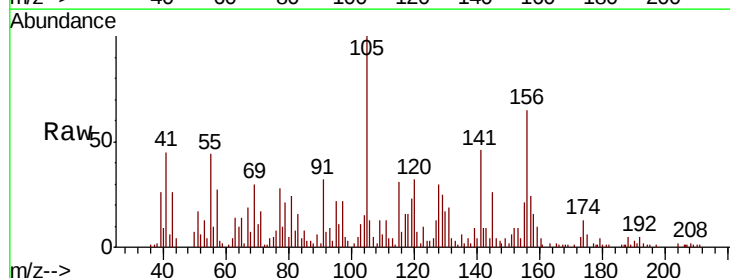
Instrument :
 MSVOA_W
 ClientSampleId :
 HR-06-071719-B

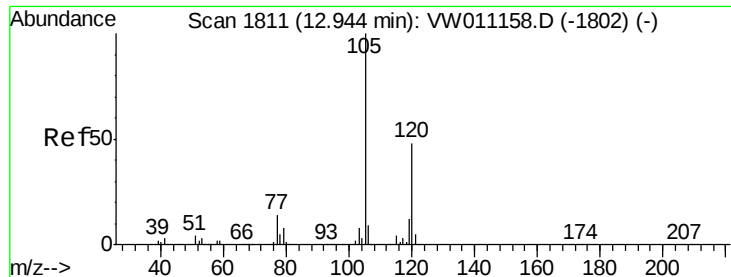
Tot Ion: 75 Resp: 99497
 Ion Ratio Lower Upper
 75 100
 77 1.9 0.0 0.0#



#77
 Bromobenzene
 Concen: 18.556 ug/l
 RT: 12.87 min Scan# 1798
 Delta R.T. 0.12 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

Tgt Ion: 156 Resp: 45241
 Ion Ratio Lower Upper
 156 100
 77 11.8 109.0 327.0#
 158 0.0 48.8 146.3#

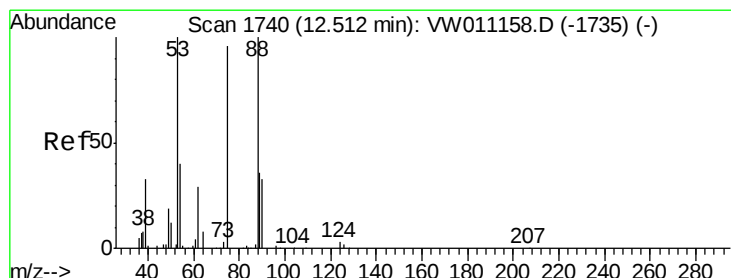
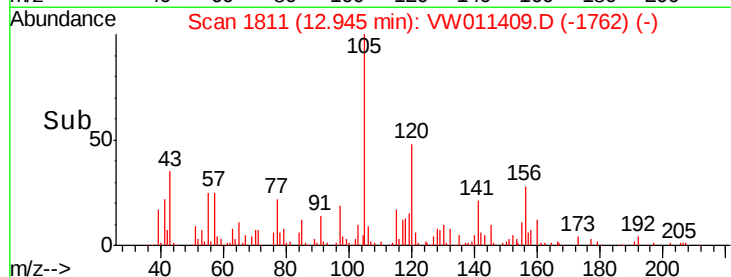
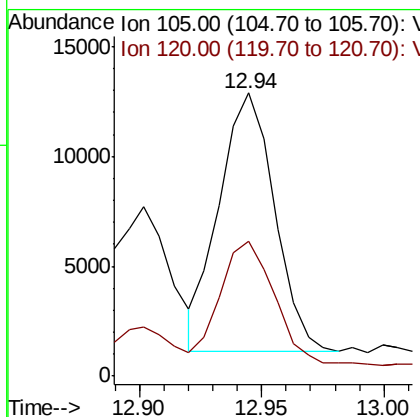
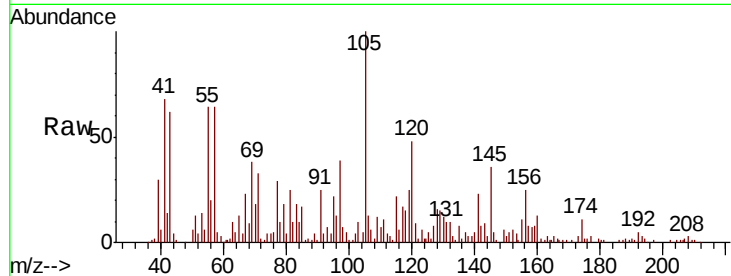




#80
 1,3,5-Trimethylbenzene
 Concen: 2.009 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

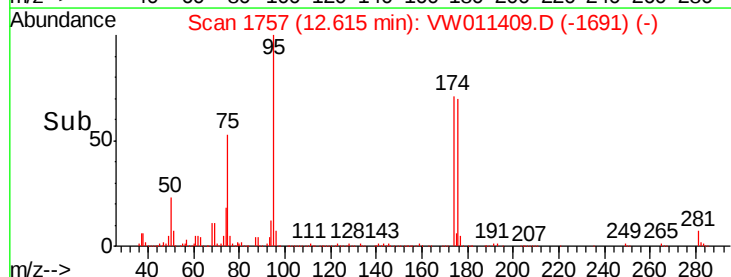
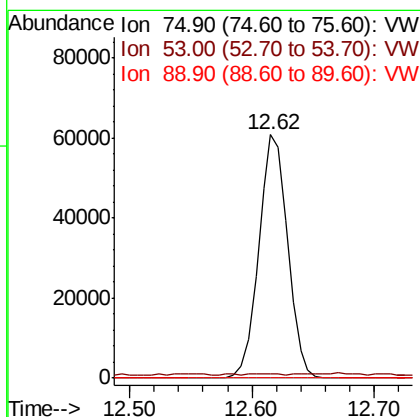
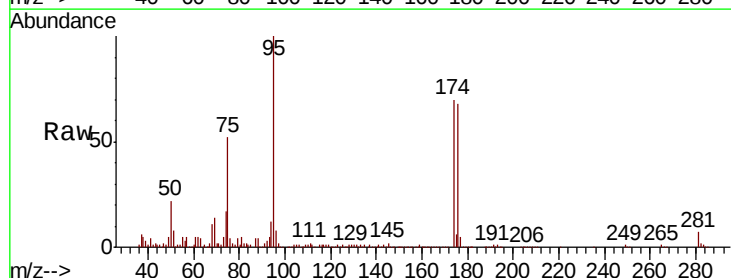
Instrument :
 MSVOA_W
 ClientSampleId :
 HR-06-071719-B

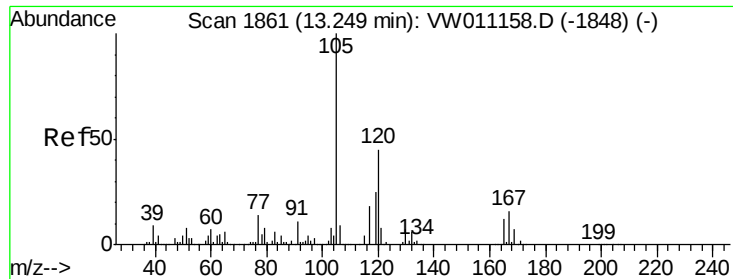
Tot Ion:105 Resp: 18540
 Ion Ratio Lower Upper
 105 100
 120 47.9 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 133.999 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

Tgt Ion: 75 Resp: 99497
 Ion Ratio Lower Upper
 75 100
 53 0.4 89.8 134.6#
 89 0.2 34.3 51.5#

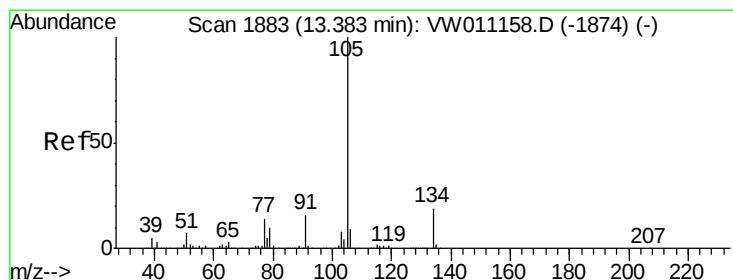
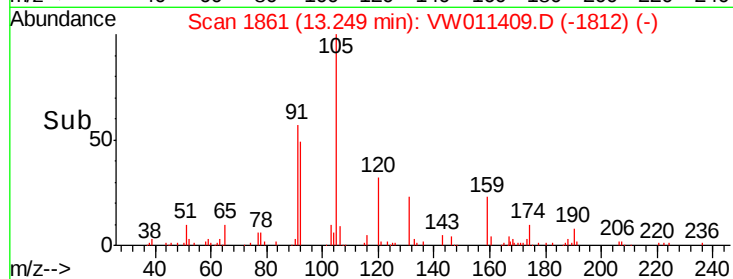
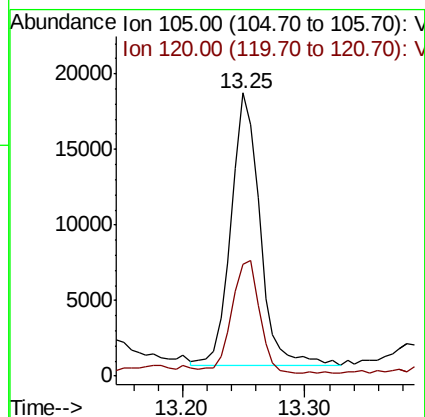
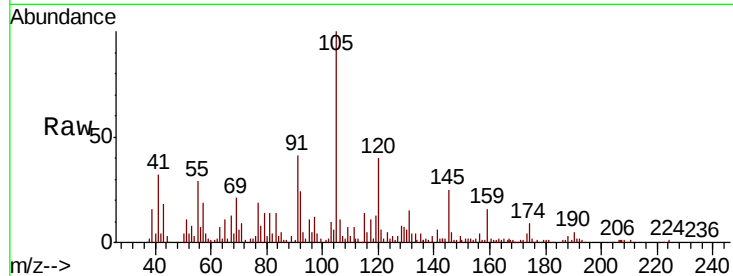




#84
 1,2,4-Trimethylbenzene
 Concen: 3.196 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

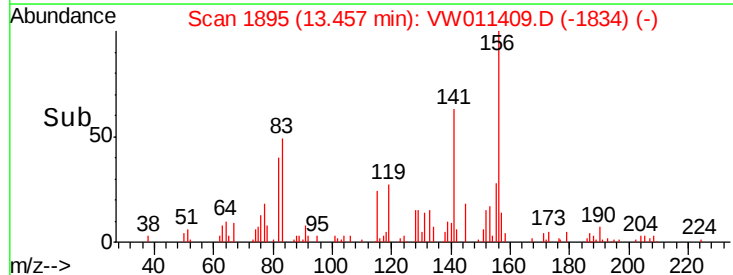
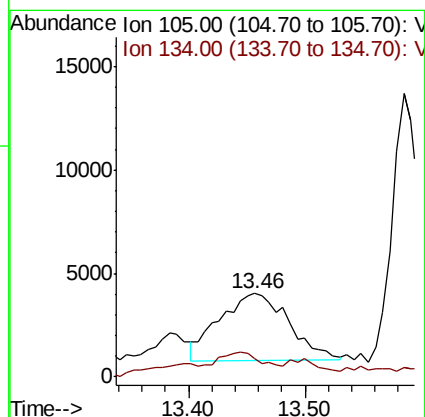
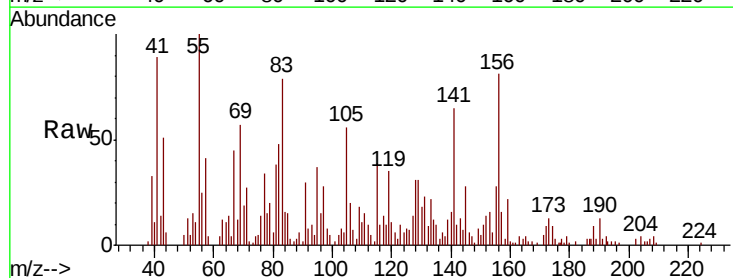
Instrument :
 MSVOA_W
 ClientSampleId :
 HR-06-071719-B

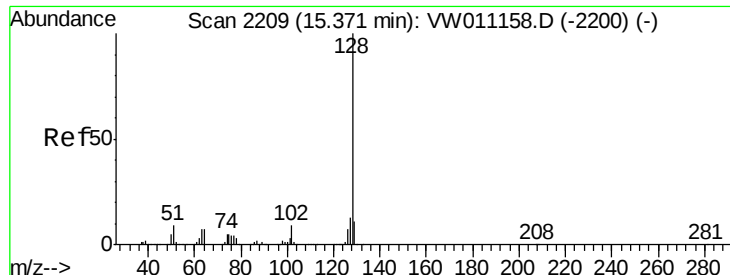
Tot Ion:105 Resp: 29620
 Ion Ratio Lower Upper
 105 100
 120 39.8 22.3 66.9



#85
 sec-Butylbenzene
 Concen: 1.212 ug/l
 RT: 13.46 min Scan# 1895
 Delta R.T. 0.07 min
 Lab File: VW011409.D
 Acq: 20 Jul 2019 07:30

Tgt Ion:105 Resp: 13463
 Ion Ratio Lower Upper
 105 100
 134 23.7 9.7 28.9





#95

Naphthalene

Concen: 1.026 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011409.D

Acq: 20 Jul 2019 07:30

Instrument :

MSVOA_W

ClientSampleId :

HR-06-071719-B

Tot Ion:128 Resp: 5765

Ion Ratio Lower Upper

128 100

127 12.7 10.6 16.0

129 19.5 8.7 13.1#

