

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081218\
 Data File : VW004570.D
 Acq On : 10 Aug 2018 00:17
 Operator : SY/AP
 Sample : J4276-01
 Misc : 5.68G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

Quant Time: Aug 10 03:52:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W080618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 08:22:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	107917	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	169016	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	73088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	15295	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	60026	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
35) Dibromofluoromethane	7.88	113	54207	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
50) Toluene-d8	10.33	98	76545	17.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.64%	
62) 4-Bromofluorobenzene	12.62	95	17059	11.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.04%	

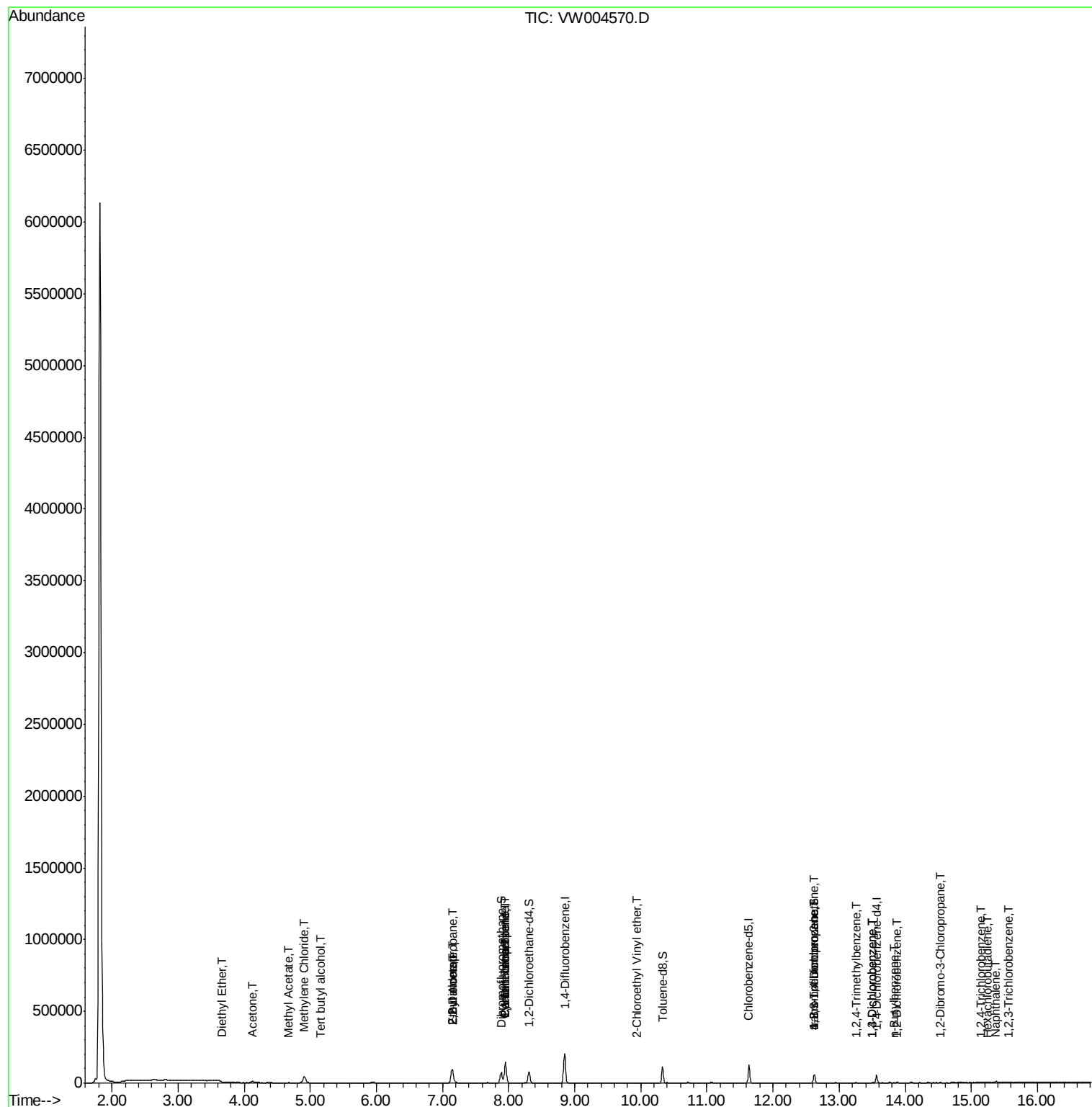
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	1037	1.540	ug/l #	28
11) Tert butyl alcohol	5.15	59	221	3.160	ug/l #	70
16) Acetone	4.12	43	17744	59.477	ug/l	96
18) Methyl Acetate	4.67	43	3200	4.302	ug/l #	73
20) Methylene Chloride	4.91	84	30570	14.729	ug/l	96
25) 2-Butanone	7.14	43	6808	14.186	ug/l #	73
26) 2,2-Dichloropropane	7.15	77	6680	5.442	ug/l #	50
31) Cyclohexane	7.94	56	2462	1.100	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	9072	4.985	ug/l #	49
37) Ethyl Acetate	7.14	43	6808	7.988	ug/l #	1
38) Carbon Tetrachloride	7.95	117	10620	6.485	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.94	63	86	9.078	ug/l #	48
76) 1,2,3-Trichloropropane	12.62	75	8803	55.620	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	8803	133.148	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.26	105	1377	1.474	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	752	1.426	ug/l	93
88) 1,4-Dichlorobenzene	13.50	146	752	1.432	ug/l	93
89) n-Butylbenzene	13.84	91	1067	1.097	ug/l	78
91) 1,2-Dichlorobenzene	13.87	146	689	1.440	ug/l	83
92) 1,2-Dibromo-3-Chloropropan	14.54	75	74	2.051	ug/l #	2
93) 1,2,4-Trichlorobenzene	15.15	180	1018	3.073	ug/l	91
94) Hexachlorobutadiene	15.24	225	366	1.897	ug/l	80
95) Naphthalene	15.38	128	6732	12.188	ug/l	96
96) 1,2,3-Trichlorobenzene	15.56	180	955	3.208	ug/l #	81

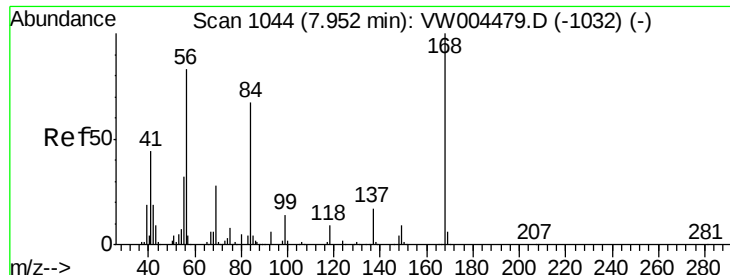
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 10 03:52:07 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W080618S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 08:22:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

Instrument :

MSVOA_W

ClientSampleId :

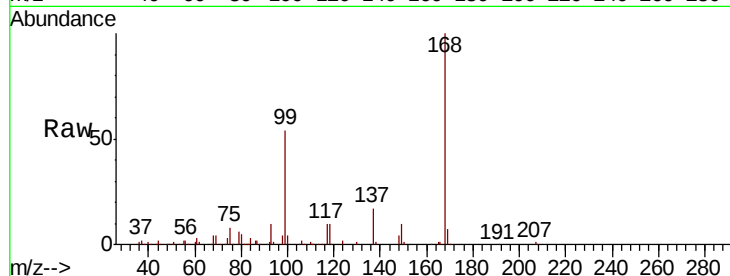
OK-02-080718RE

Tgt Ion:168 Resp: 107917

Ion Ratio Lower Upper

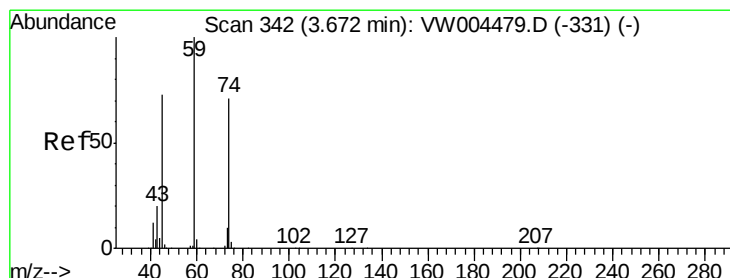
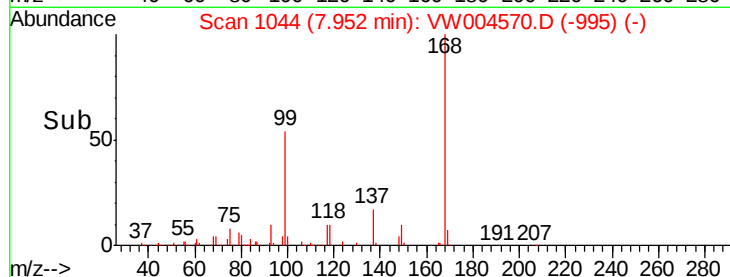
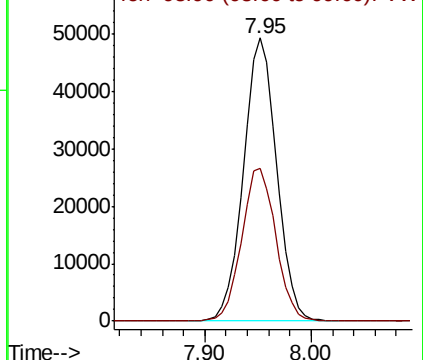
168 100

99 53.8 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.540 ug/l

RT: 3.67 min Scan# 342

Delta R.T. 0.00 min

Lab File: VW004570.D

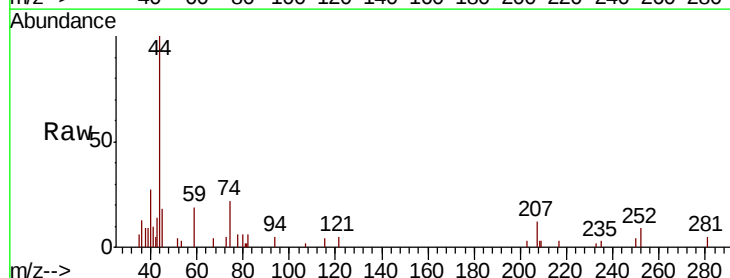
Acq: 10 Aug 2018 00:17

Tgt Ion: 74 Resp: 1037

Ion Ratio Lower Upper

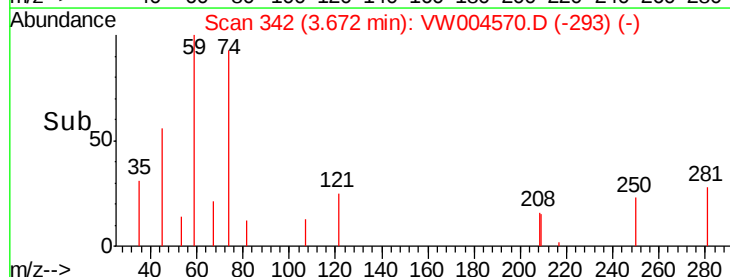
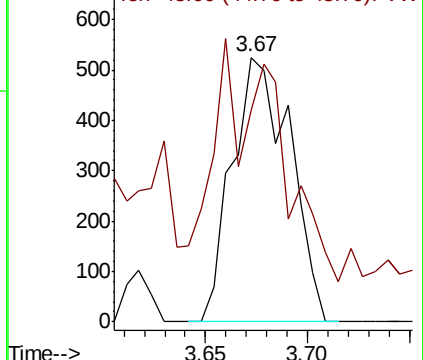
74 100

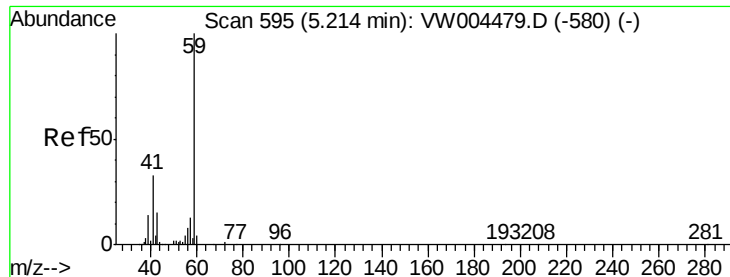
45 29.1 51.2 153.8#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

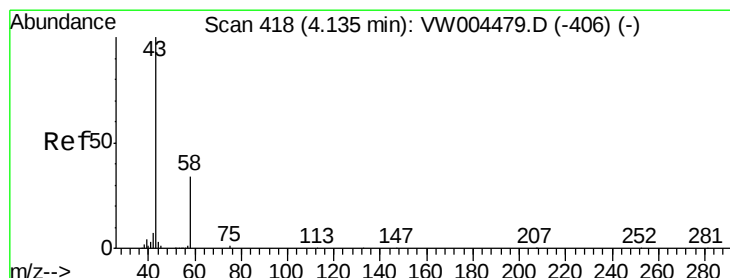
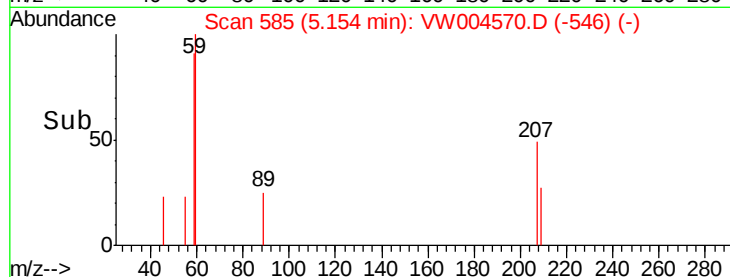
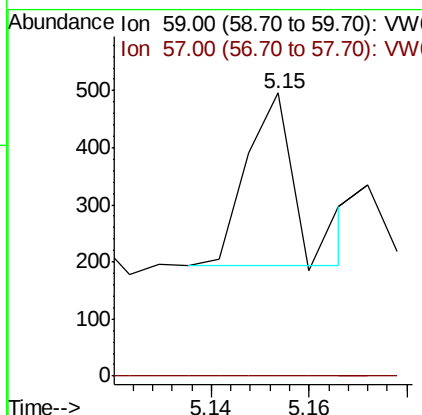
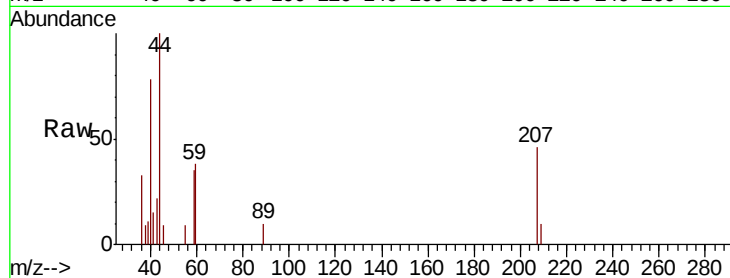




#11
Tert butyl alcohol
Concen: 3.160 ug/l
RT: 5.15 min Scan# 585
Delta R.T. -0.06 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

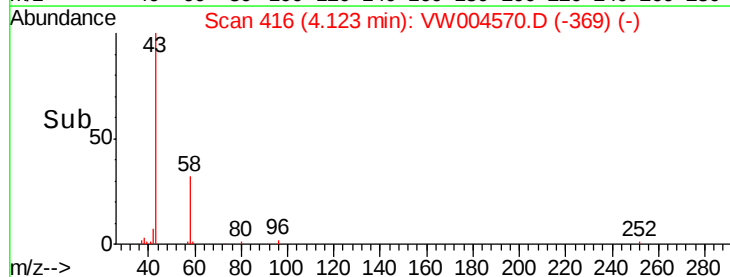
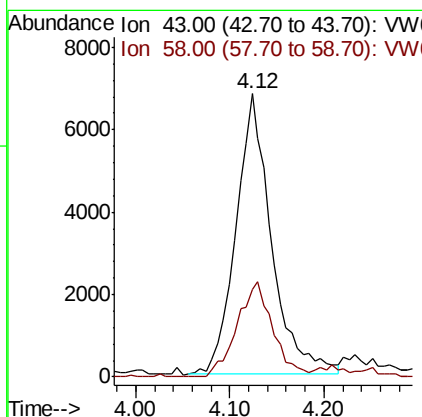
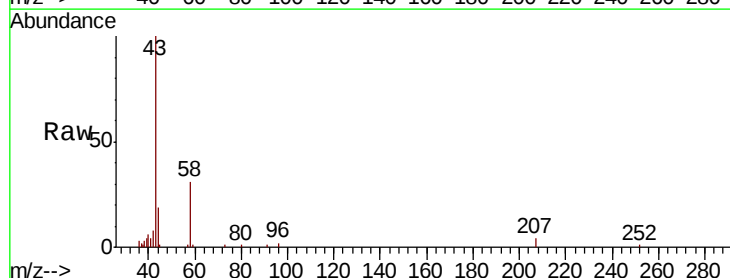
Instrument :
MSVOA_W
ClientSampled :
OK-02-080718RE

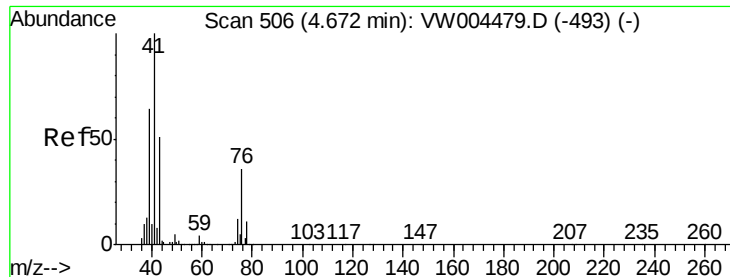
Tgt Ion: 59 Resp: 221
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#



#16
Acetone
Concen: 59.477 ug/l
RT: 4.12 min Scan# 416
Delta R.T. -0.01 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Tgt Ion: 43 Resp: 17744
Ion Ratio Lower Upper
43 100
58 31.3 26.8 40.2

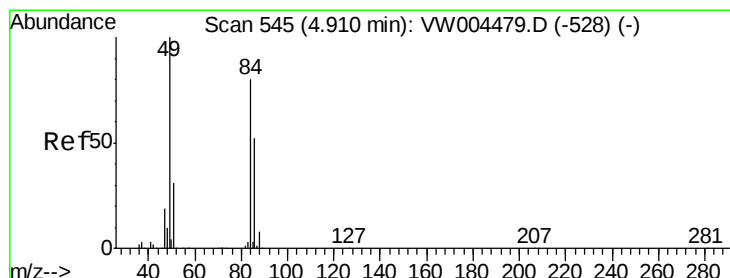
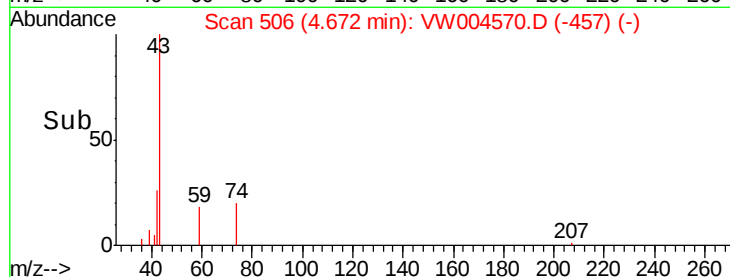
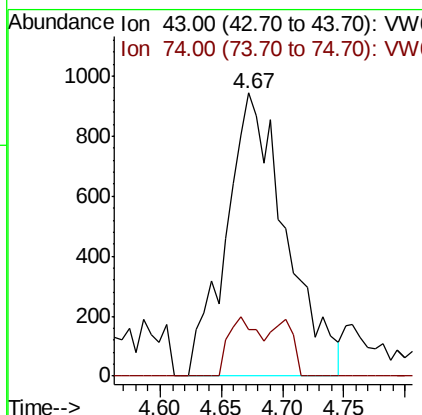
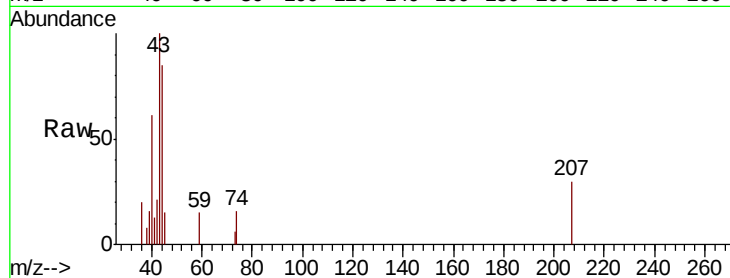




#18
Methyl Acetate
Concen: 4.302 ug/l
RT: 4.67 min Scan# 506
Delta R.T. 0.00 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

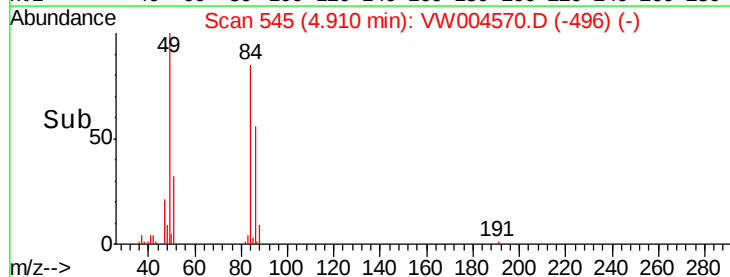
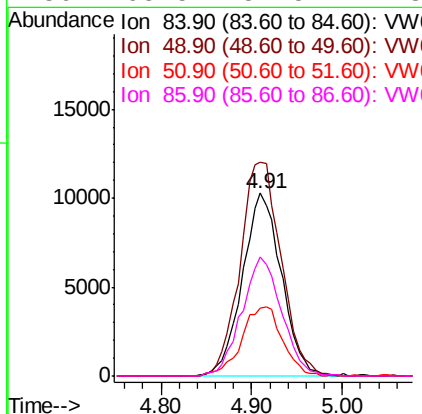
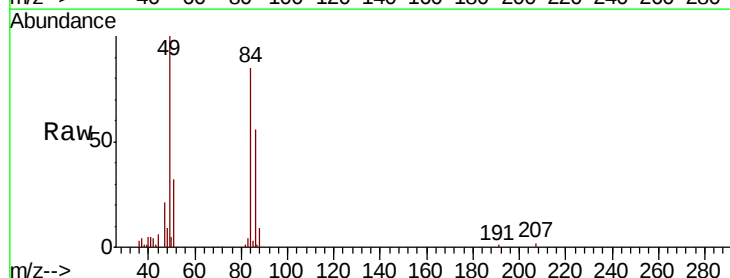
Instrument :
MSVOA_W
ClientSampleId :
OK-02-080718RE

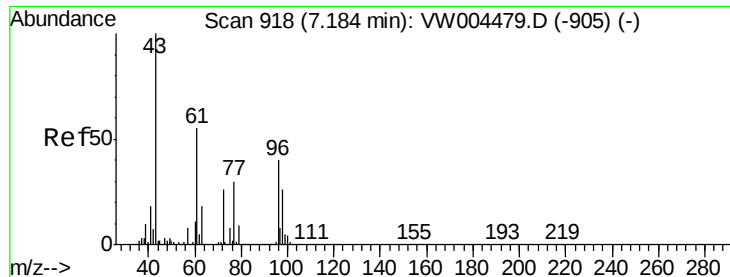
Tgt Ion: 43 Resp: 3200
Ion Ratio Lower Upper
43 100
74 10.4 19.1 28.7#



#20
Methylene Chloride
Concen: 14.729 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Tgt Ion: 84 Resp: 30570
Ion Ratio Lower Upper
84 100
49 117.1 99.6 149.4
51 37.3 31.0 46.4
86 65.5 51.5 77.3





#25

2-Butanone

Concen: 14.186 ug/l

RT: 7.14 min Scan# 911

Delta R.T. -0.04 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

Instrument :

MSVOA_W

ClientSampleId :

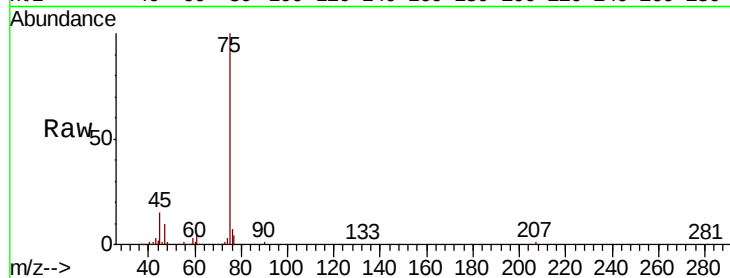
OK-02-080718RE

Tgt Ion: 43 Resp: 6808

Ion Ratio Lower Upper

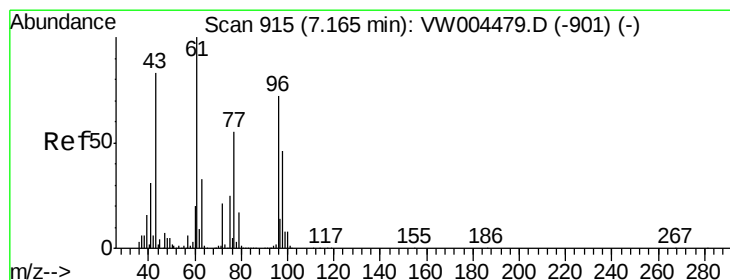
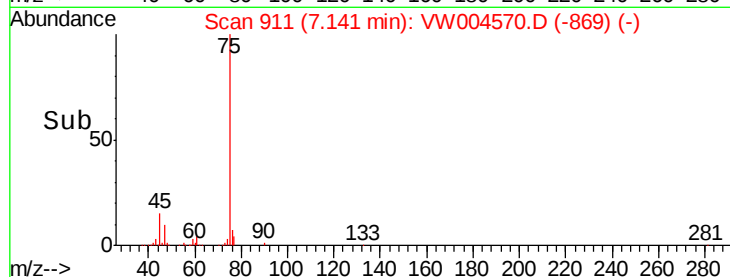
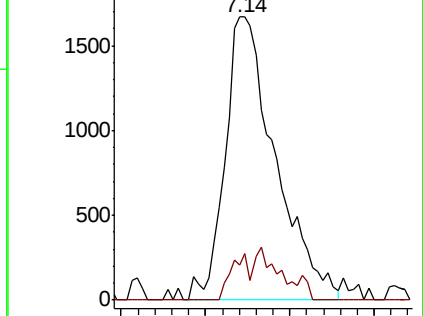
43 100

72 12.3 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 5.442 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.02 min

Lab File: VW004570.D

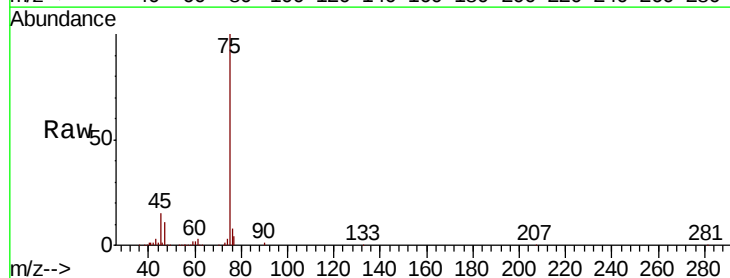
Acq: 10 Aug 2018 00:17

Tgt Ion: 77 Resp: 6680

Ion Ratio Lower Upper

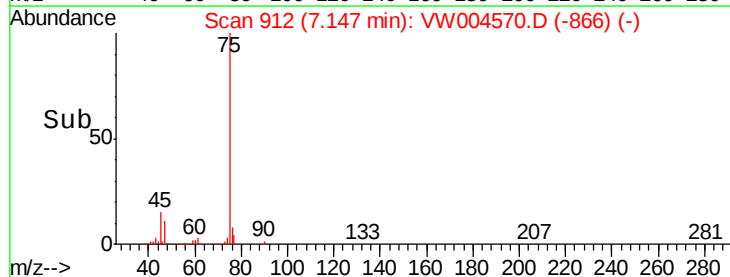
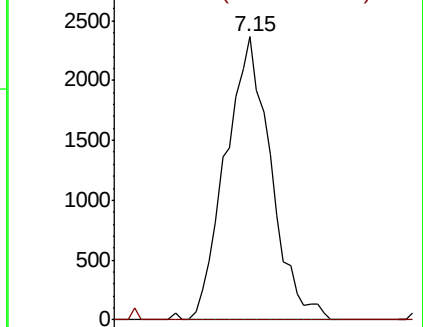
77 100

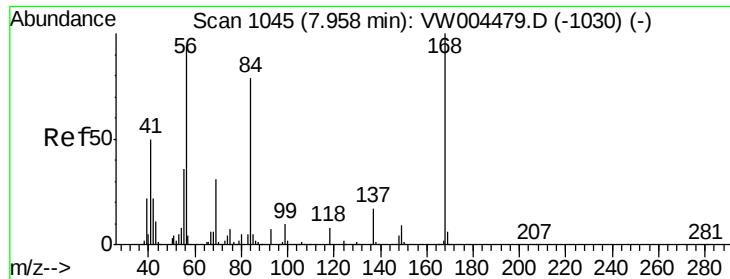
97 0.0 12.5 37.5#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

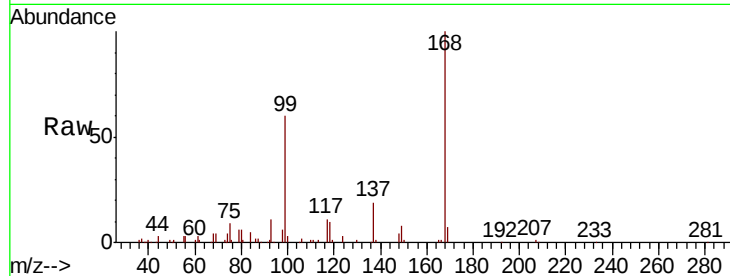




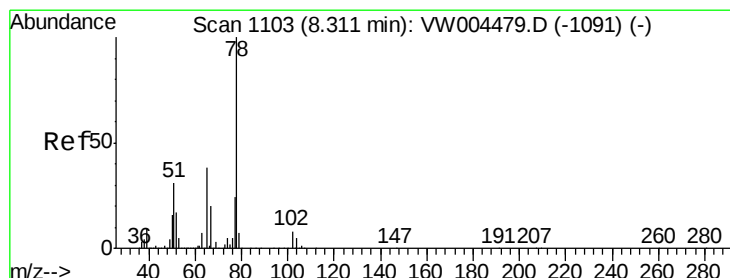
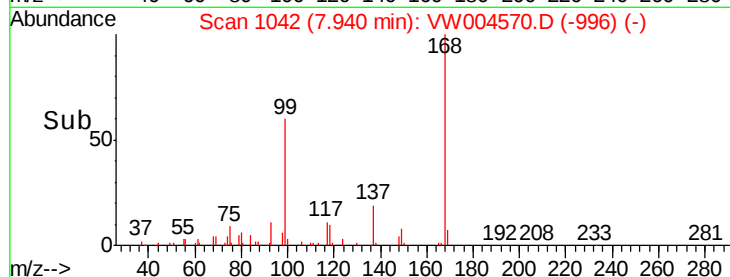
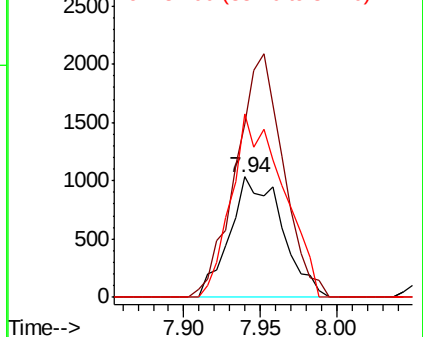
#31
Cyclohexane
Concen: 1.100 ug/l
RT: 7.94 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Instrument :
MSVOA_W
ClientSampleId :
OK-02-080718RE

Tgt Ion: 56 Resp: 2462
Ion Ratio Lower Upper
56 100
69 143.3 26.4 39.6#
84 152.4 66.9 100.3#

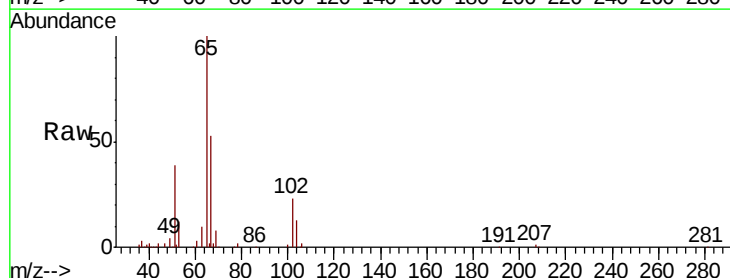


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

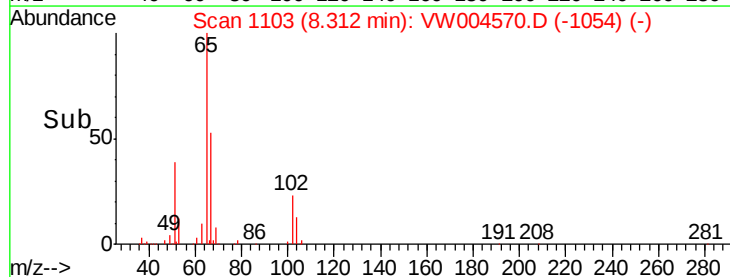
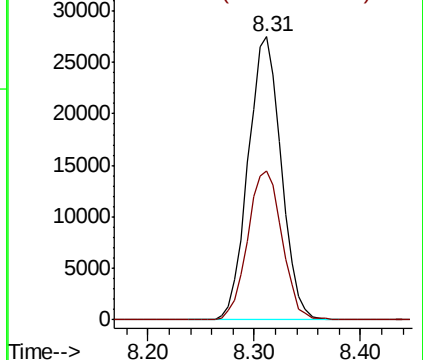


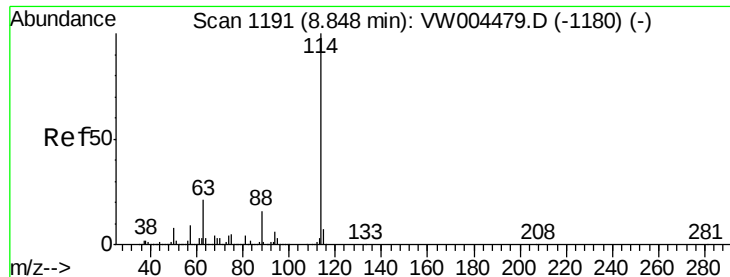
#33
1,2-Dichloroethane-d4
Concen: 50.247 ug/l
RT: 8.31 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Tgt Ion: 65 Resp: 60026
Ion Ratio Lower Upper
65 100
67 54.7 0.0 109.0



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

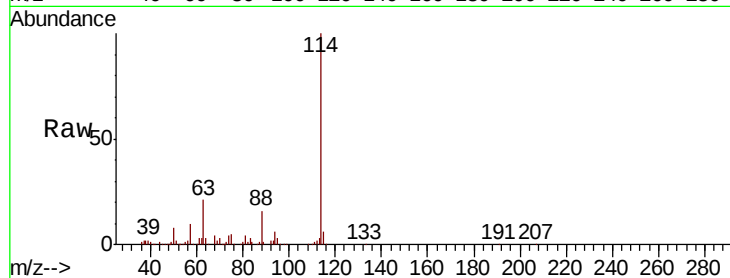




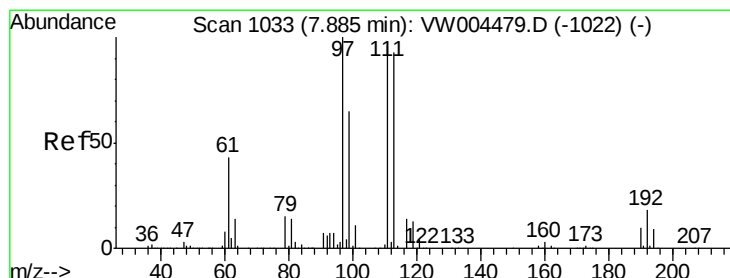
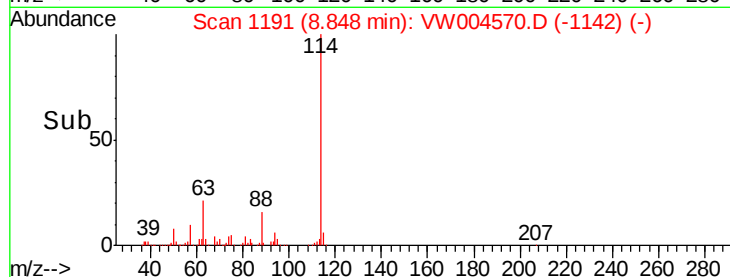
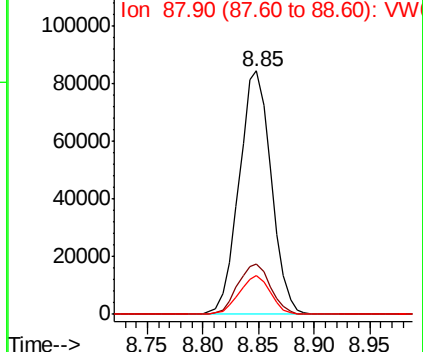
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

Tgt Ion:114 Resp: 169016
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.4
 88 15.9 0.0 31.2

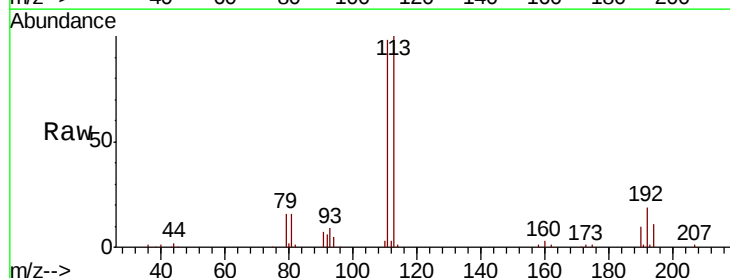


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

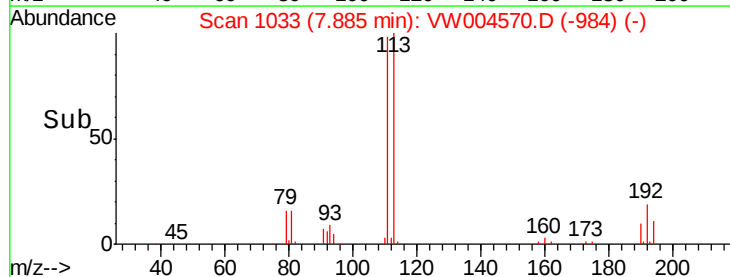
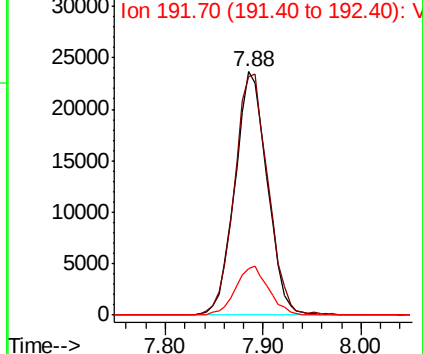


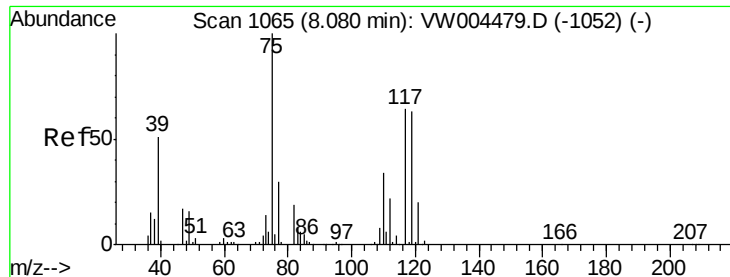
#35
 Dibromofluoromethane
 Concen: 48.101 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Tgt Ion:113 Resp: 54207
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.9 124.3
 192 20.2 15.8 23.6



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: 4.985 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

Instrument :

MSVOA_W

ClientSampleId :

OK-02-080718RE

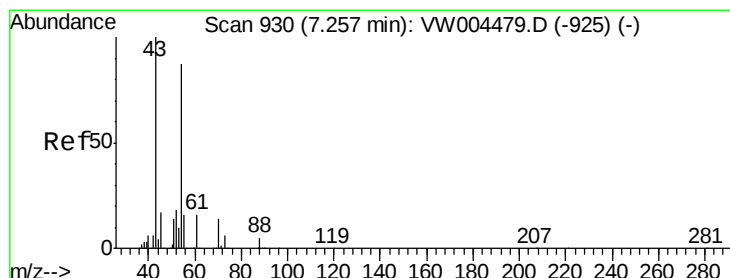
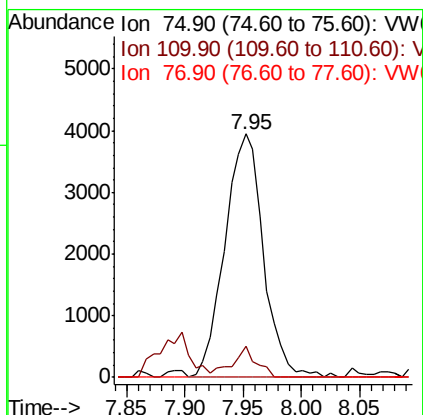
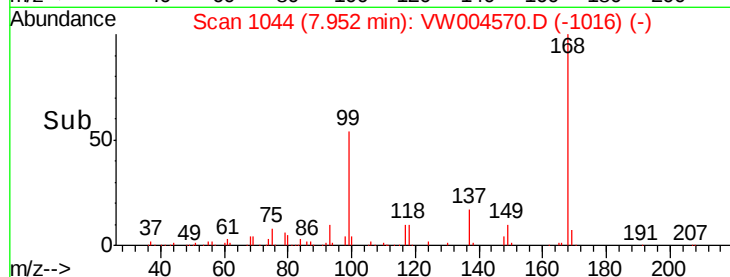
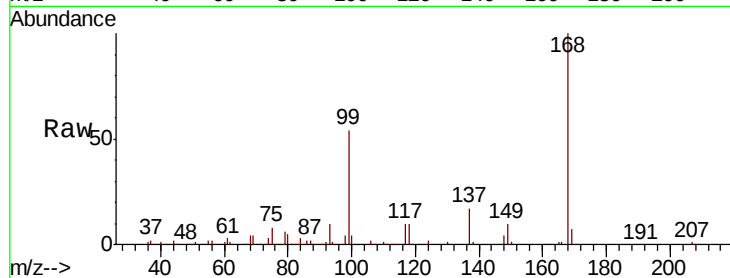
Tgt Ion: 75 Resp: 9072

Ion Ratio Lower Upper

75 100

110 7.8 17.4 52.2#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 7.988 ug/l

RT: 7.14 min Scan# 911

Delta R.T. -0.12 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

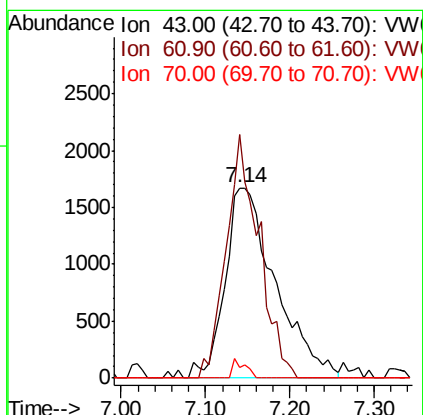
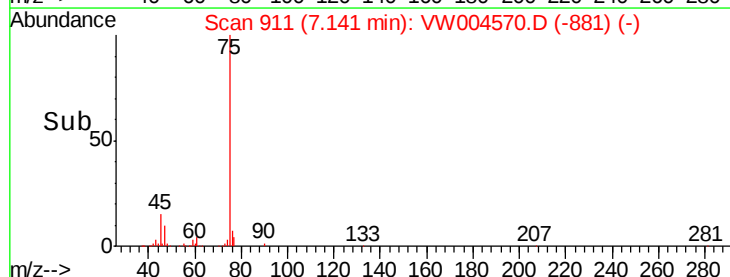
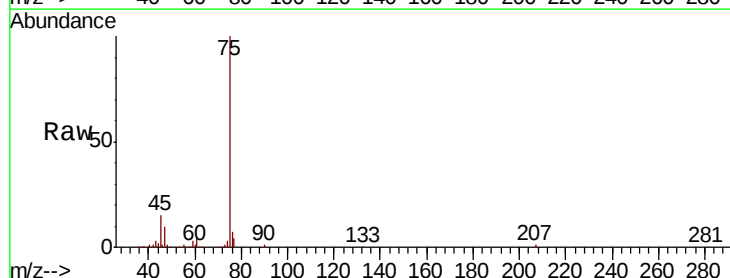
Tgt Ion: 43 Resp: 6808

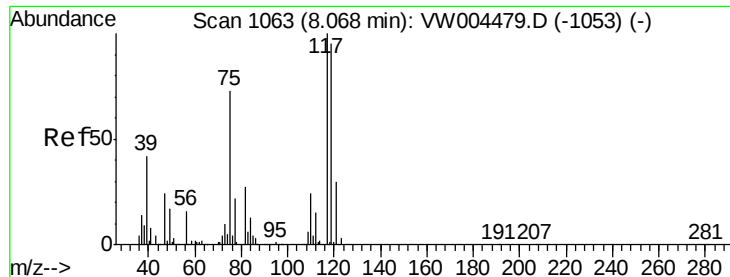
Ion Ratio Lower Upper

43 100

61 83.4 11.9 17.9#

70 2.5 8.2 12.4#

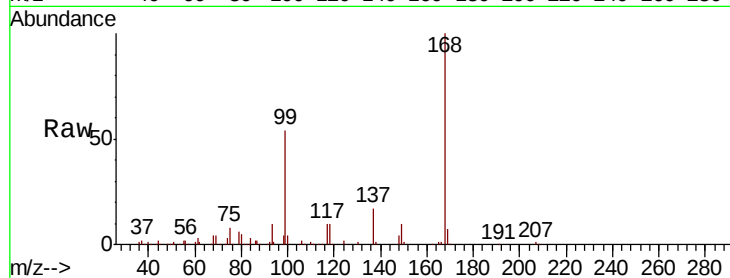




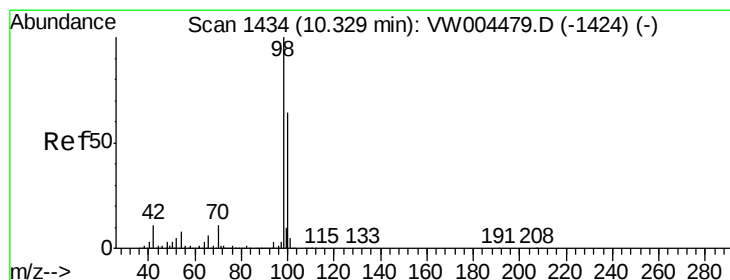
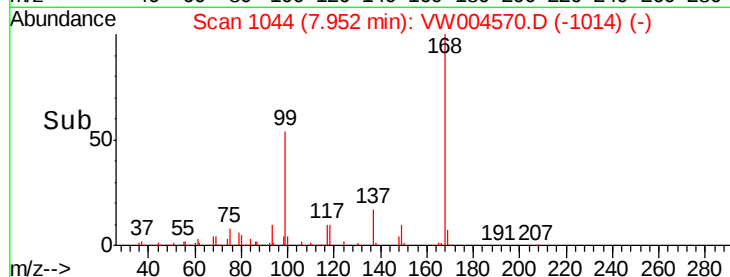
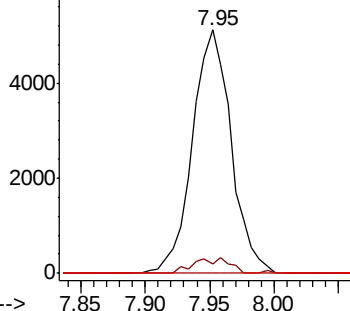
#38
Carbon Tetrachloride
Concen: 6.485 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.12 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Instrument :
MSVOA_W
ClientSampleId :
OK-02-080718RE

Tgt Ion:117 Resp: 10620
Ion Ratio Lower Upper
117 100
119 3.8 76.1 114.1#
121 0.0 24.2 36.4#

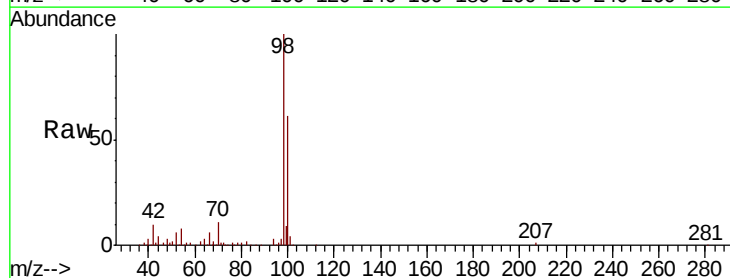


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

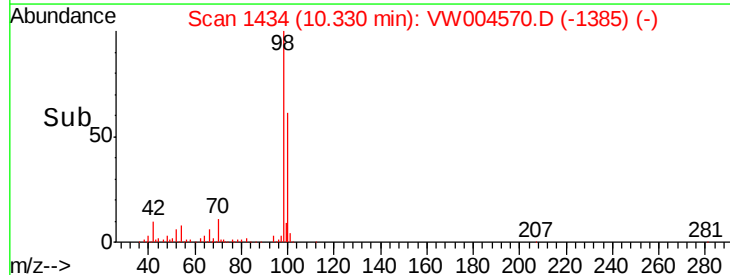
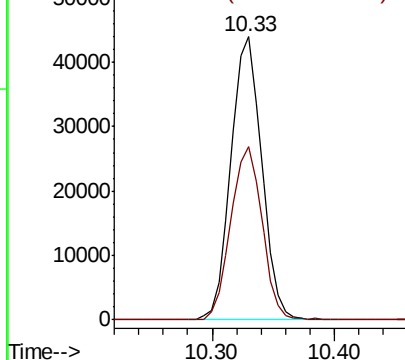


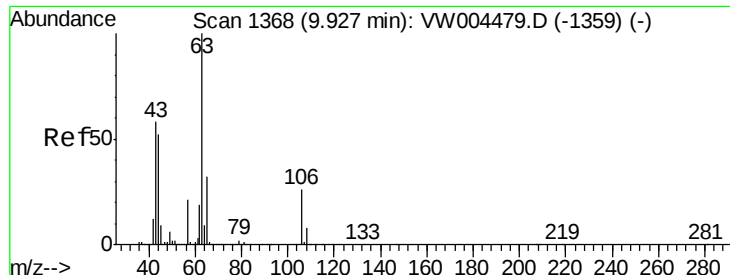
#50
Toluene-d8
Concen: 17.816 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Tgt Ion: 98 Resp: 76545
Ion Ratio Lower Upper
98 100
100 62.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V

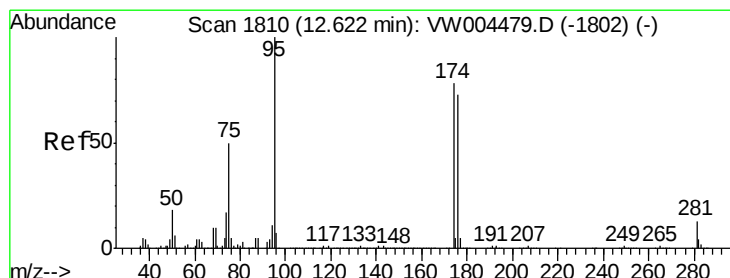
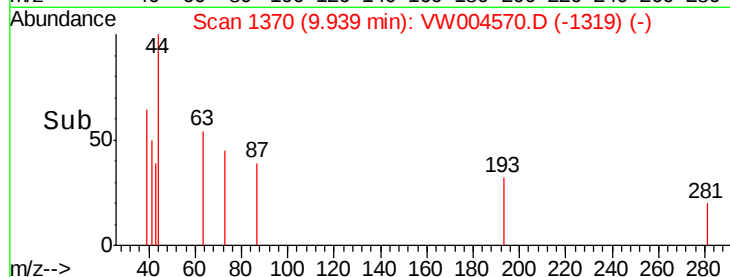
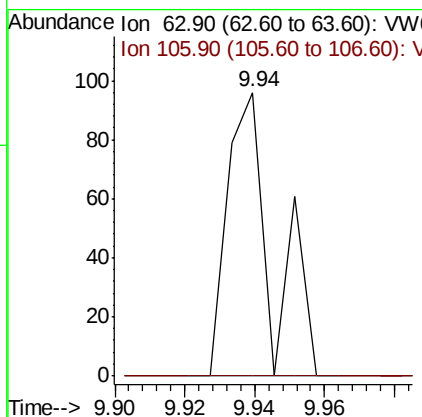
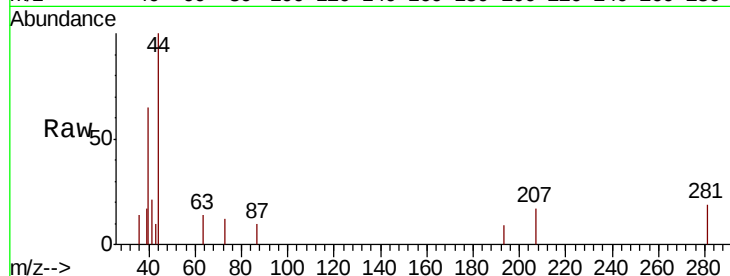




#58
 2-Chloroethyl Vinyl ether
 Concen: 9.078 ug/l
 RT: 9.94 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

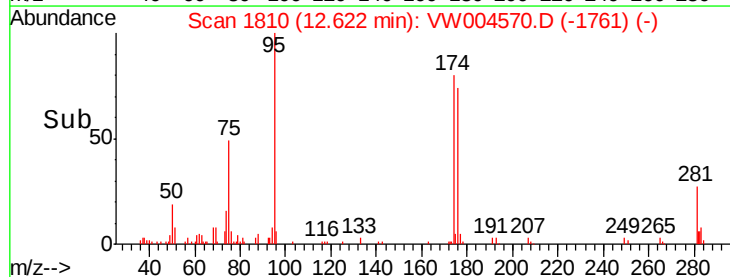
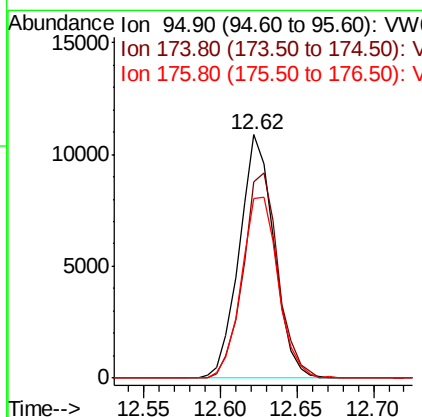
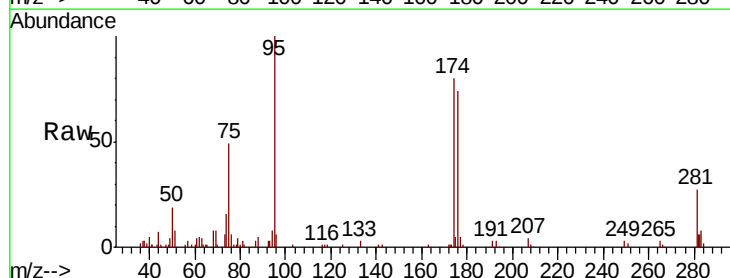
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

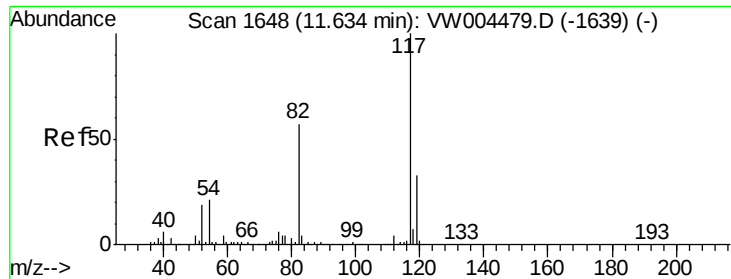
Tgt Ion: 63 Resp: 86
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.3 31.9#



#62
 4-Bromofluorobenzene
 Concen: 11.023 ug/l
 RT: 12.62 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Tgt Ion: 95 Resp: 17059
 Ion Ratio Lower Upper
 95 100
 174 85.3 0.0 160.4
 176 78.9 0.0 153.2

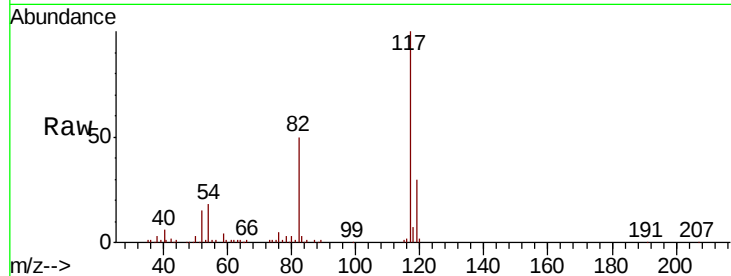




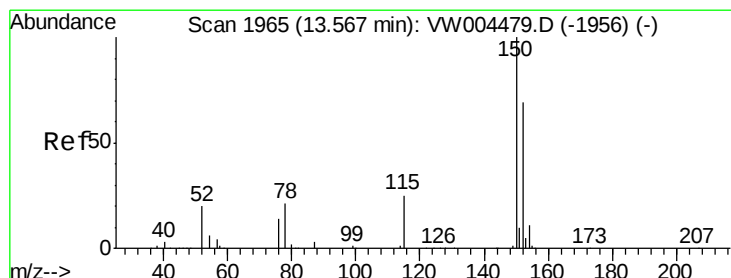
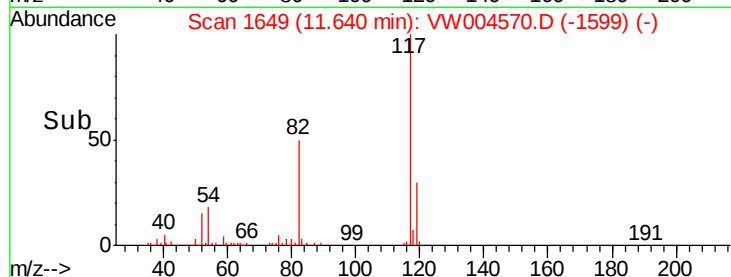
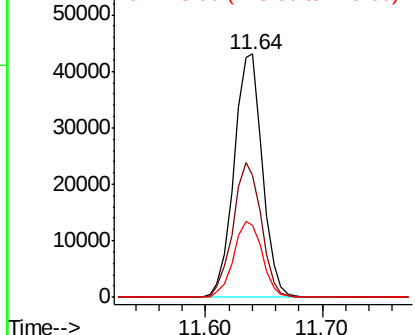
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. 0.01 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Instrument :
MSVOA_W
ClientSampleId :
OK-02-080718RE

Tgt Ion:117 Resp: 73088
Ion Ratio Lower Upper
117 100
82 50.3 45.3 67.9
119 29.6 26.2 39.4

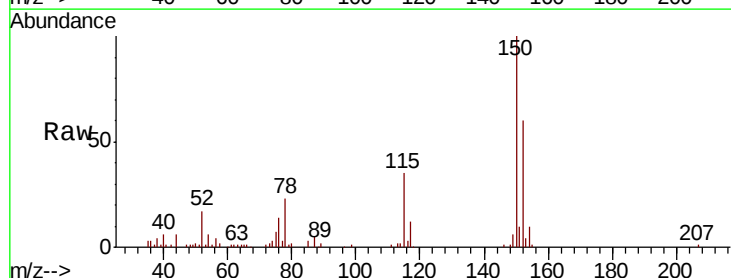


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

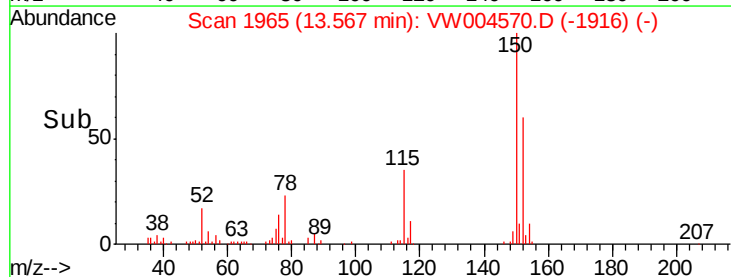
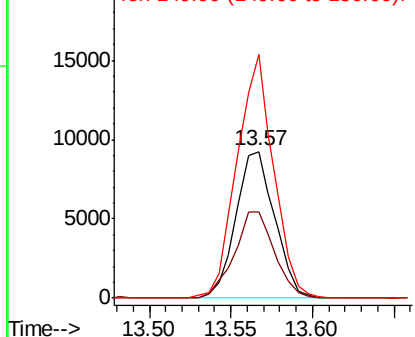


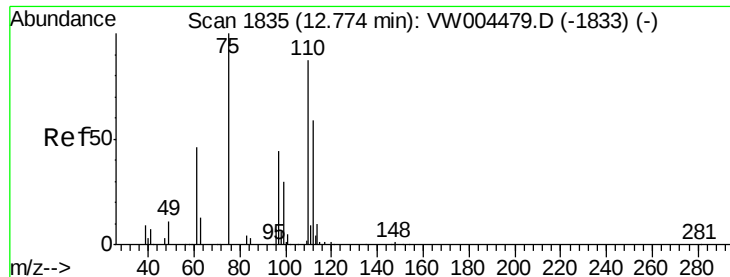
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW004570.D
Acq: 10 Aug 2018 00:17

Tgt Ion:152 Resp: 15295
Ion Ratio Lower Upper
152 100
115 60.5 29.1 87.3
150 156.5 0.0 349.6



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: 55.620 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

Instrument :

MSVOA_W

ClientSampleId :

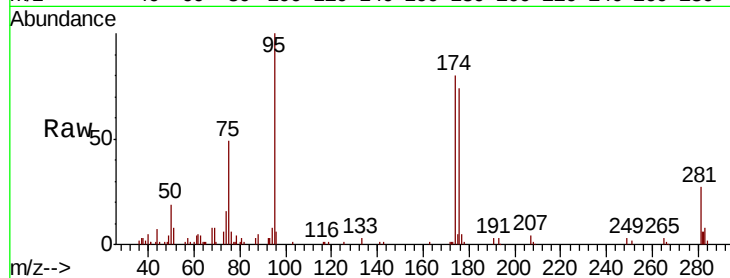
OK-02-080718RE

Tgt Ion: 75 Resp: 8803

Ion Ratio Lower Upper

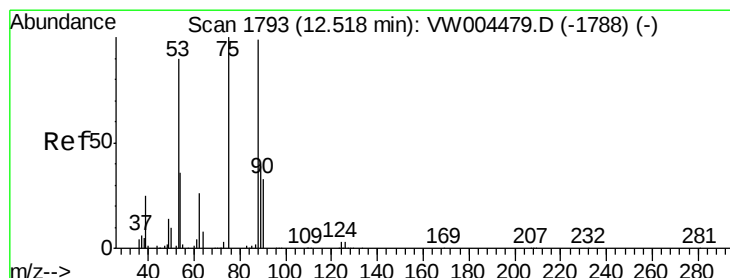
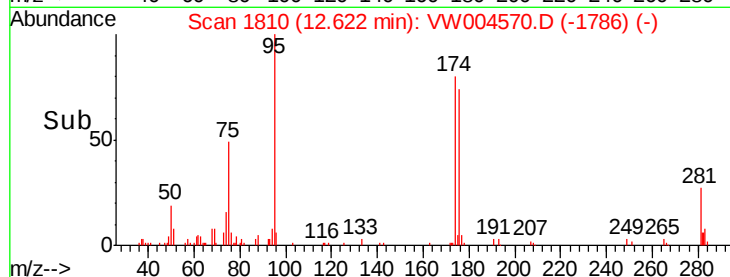
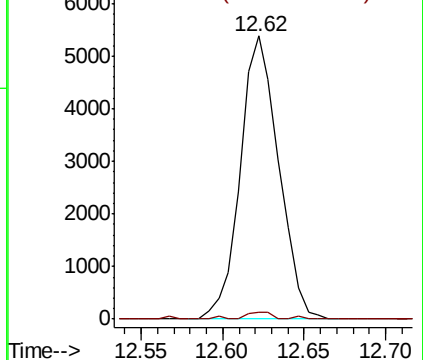
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 133.148 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

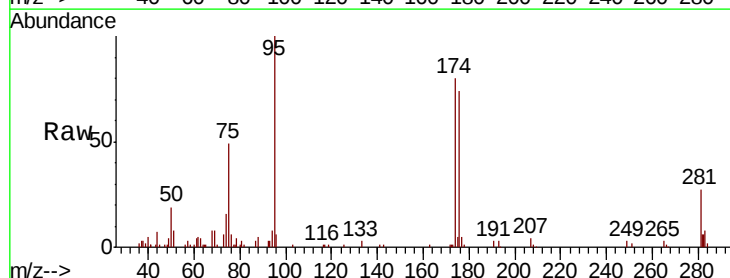
Tgt Ion: 75 Resp: 8803

Ion Ratio Lower Upper

75 100

53 0.0 74.4 111.6#

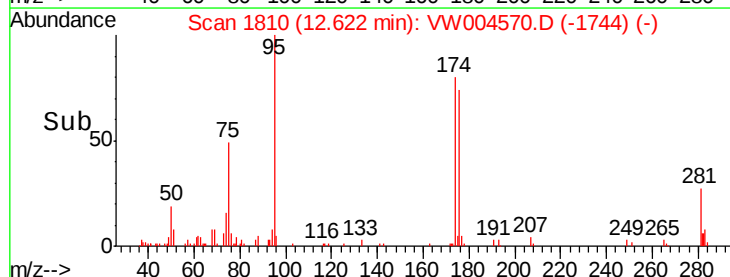
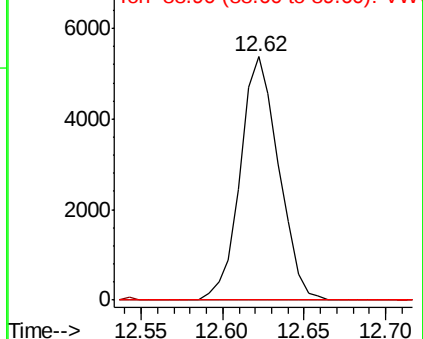
89 0.0 35.9 53.9#

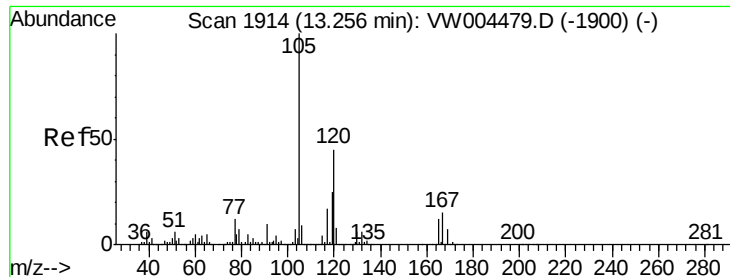


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

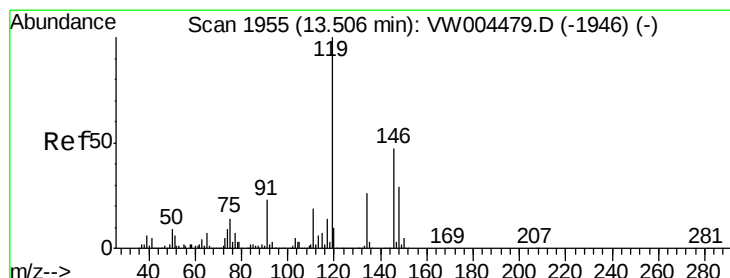
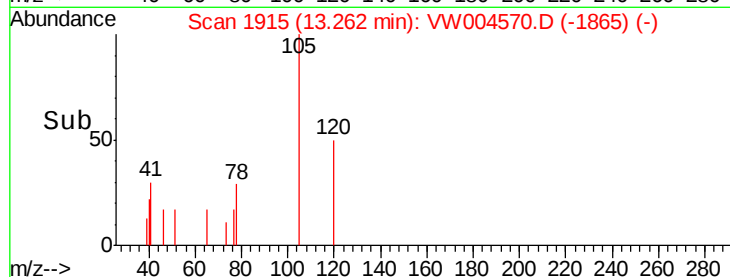
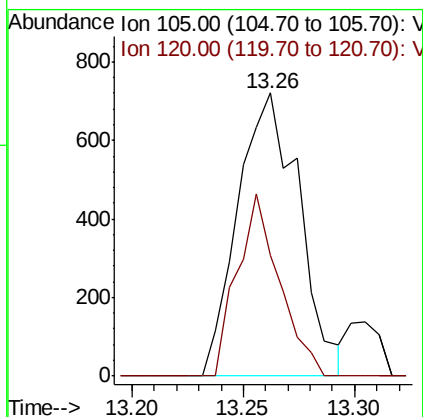
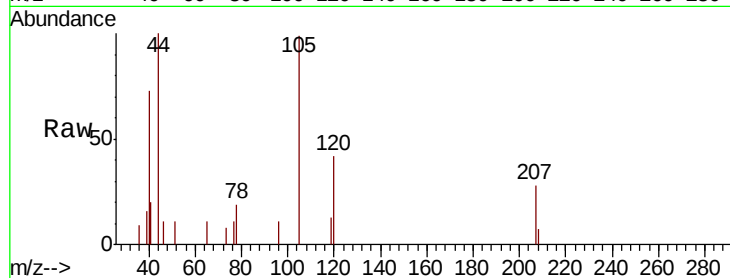




#84
 1,2,4-Trimethylbenzene
 Concen: 1.474 ug/l
 RT: 13.26 min Scan# 1915
 Delta R.T. 0.01 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

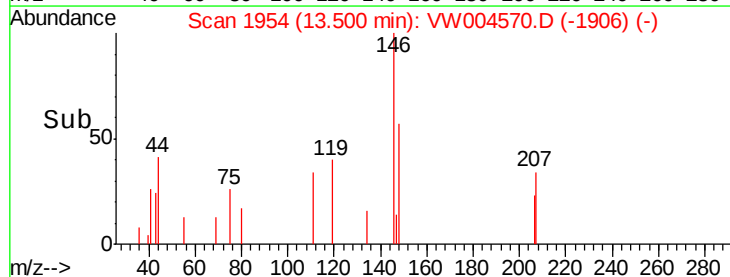
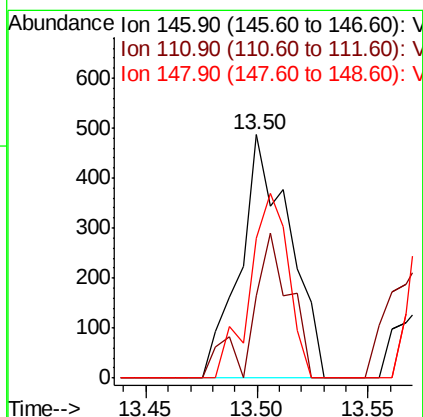
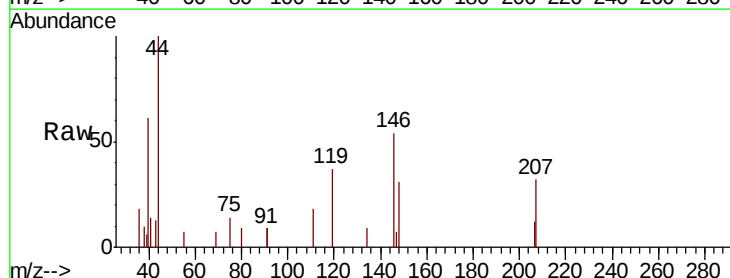
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

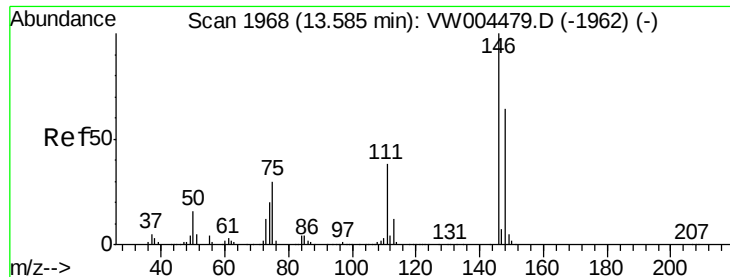
Tgt Ion:105 Resp: 1377
 Ion Ratio Lower Upper
 105 100
 120 44.4 22.6 67.8



#87
 1,3-Dichlorobenzene
 Concen: 1.426 ug/l
 RT: 13.50 min Scan# 1954
 Delta R.T. -0.01 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Tgt Ion:146 Resp: 752
 Ion Ratio Lower Upper
 146 100
 111 45.5 20.0 59.9
 148 59.3 31.7 95.1

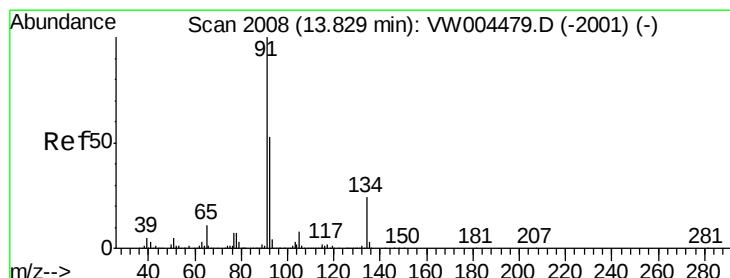
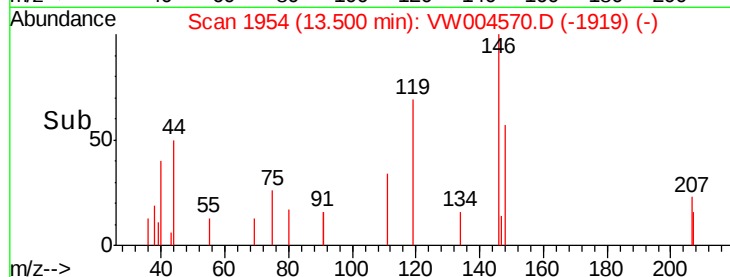
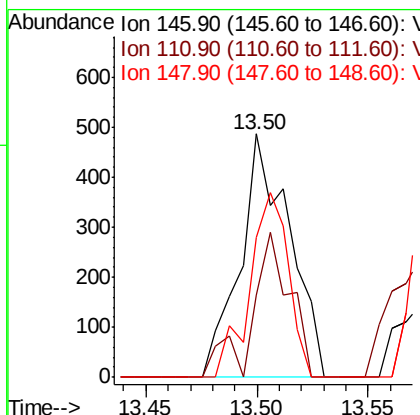
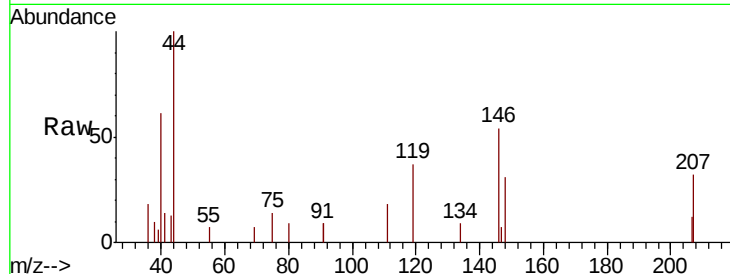




#88
 1,4-Dichlorobenzene
 Concen: 1.432 ug/l
 RT: 13.50 min Scan# 1954
 Delta R.T. -0.09 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

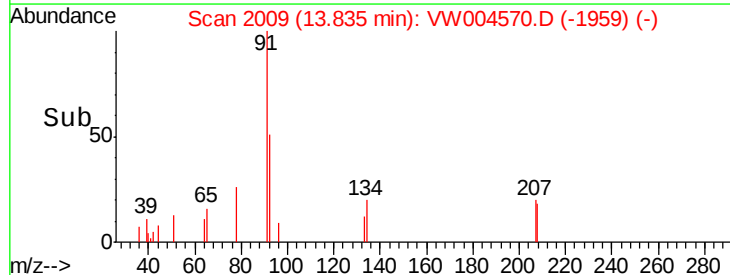
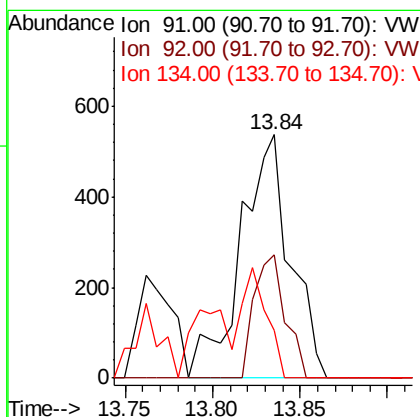
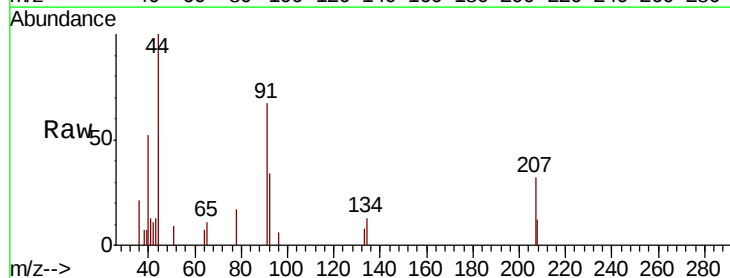
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

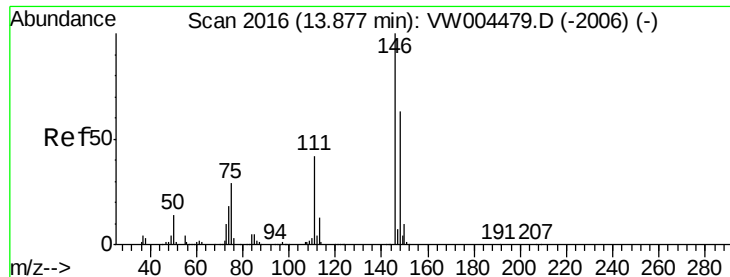
Tgt Ion:146 Resp: 752
 Ion Ratio Lower Upper
 146 100
 111 45.5 19.6 58.8
 148 59.3 31.9 95.5



#89
 n-Butylbenzene
 Concen: 1.097 ug/l
 RT: 13.84 min Scan# 2009
 Delta R.T. 0.01 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Tgt Ion: 91 Resp: 1067
 Ion Ratio Lower Upper
 91 100
 92 31.4 26.4 79.0
 134 22.9 12.4 37.2

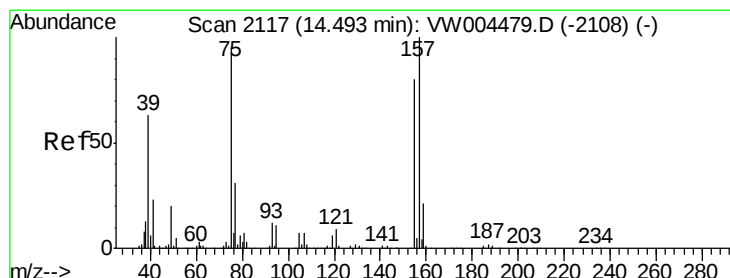
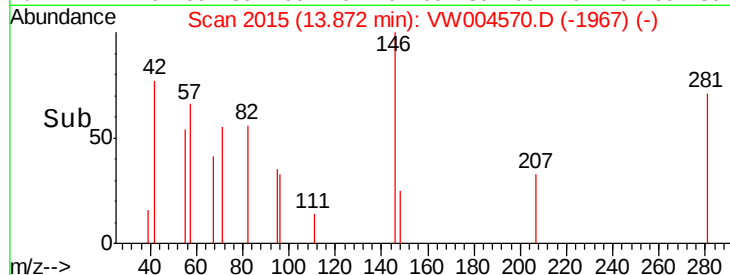
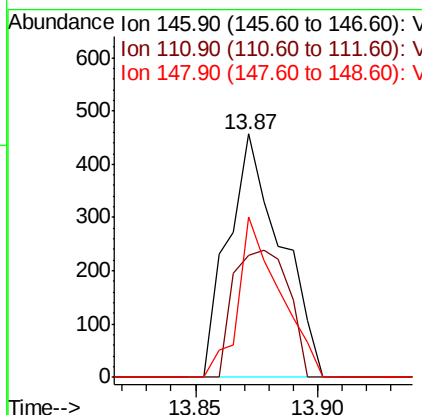
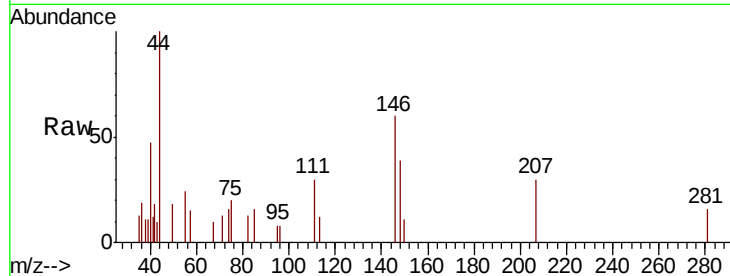




#91
 1,2-Dichlorobenzene
 Concen: 1.440 ug/l
 RT: 13.87 min Scan# 2015
 Delta R.T. -0.01 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

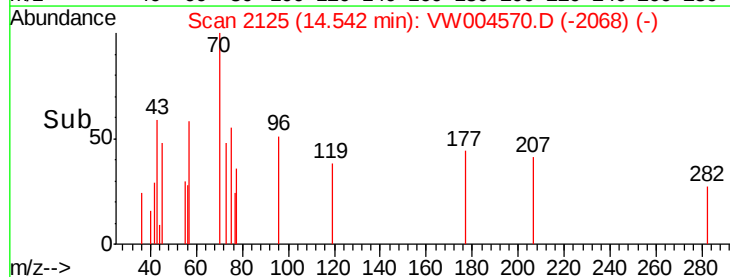
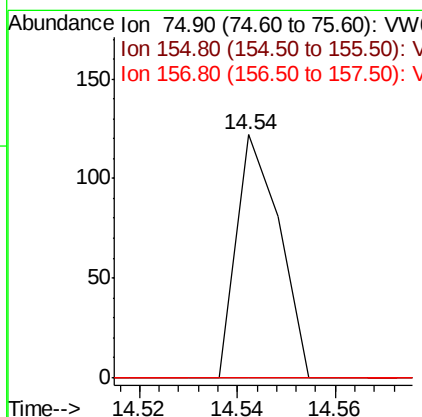
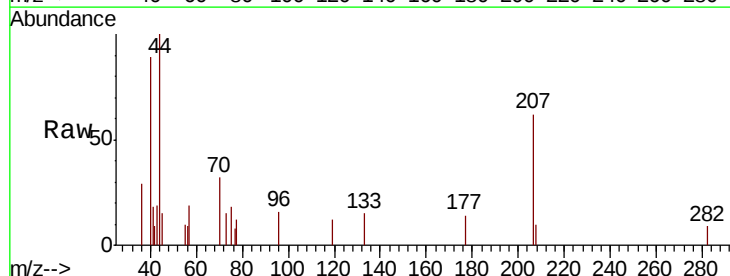
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

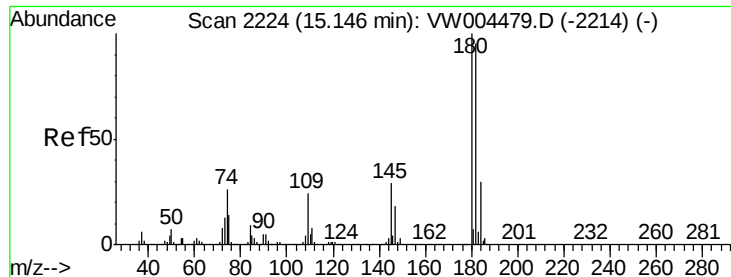
Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.7	20.8	62.2
148	51.8	31.8	95.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.051 ug/l
 RT: 14.54 min Scan# 2125
 Delta R.T. 0.05 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	41.3	123.7#
157	0.0	52.6	157.8#

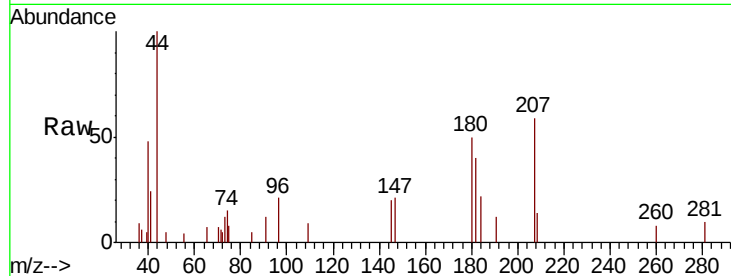




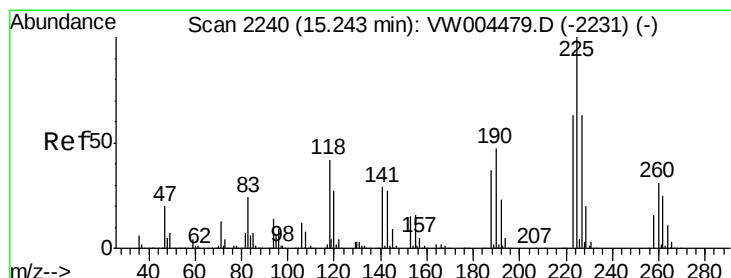
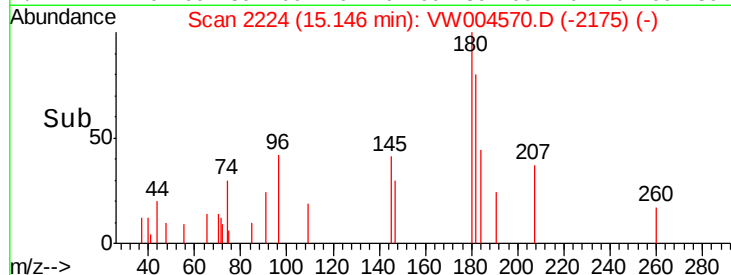
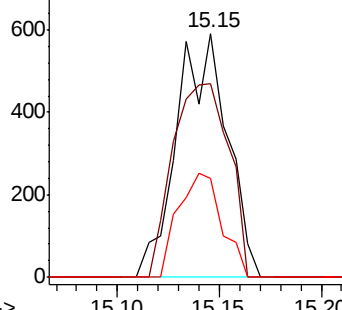
#93
 1,2,4-Trichlorobenzene
 Concen: 3.073 ug/l
 RT: 15.15 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-02-080718RE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.2	47.9	143.6
145	36.9	14.9	44.9

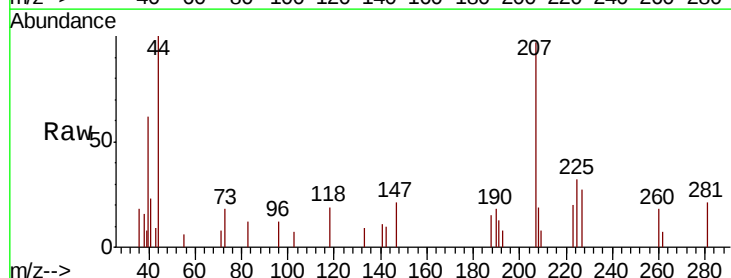


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

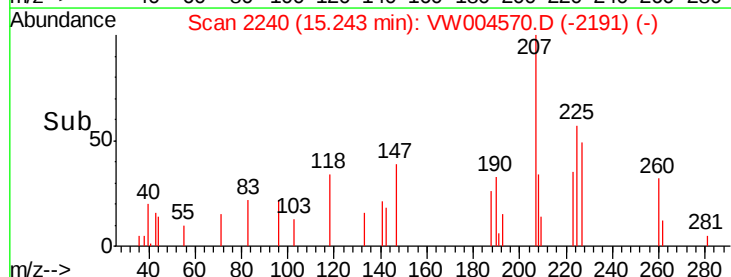
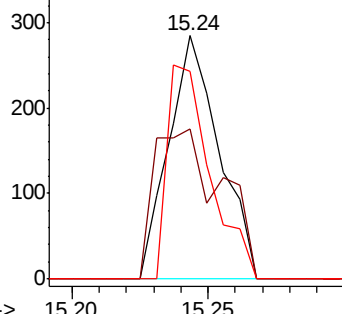


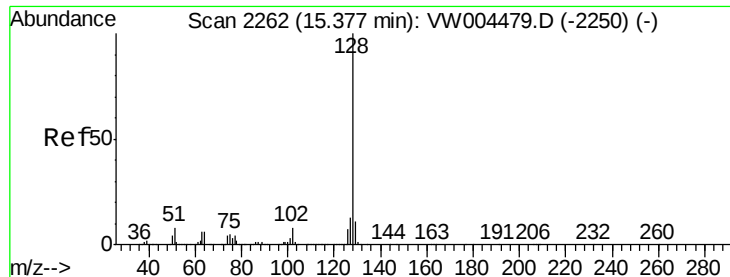
#94
 Hexachlorobutadiene
 Concen: 1.897 ug/l
 RT: 15.24 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW004570.D
 Acq: 10 Aug 2018 00:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	82.2	31.3	93.8
227	74.6	31.8	95.4



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 12.188 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

Instrument :

MSVOA_W

ClientSampleId :

OK-02-080718RE

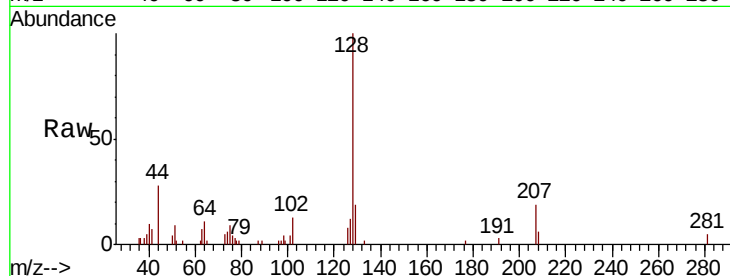
Tgt Ion:128 Resp: 6732

Ion Ratio Lower Upper

128 100

127 14.2 10.3 15.5

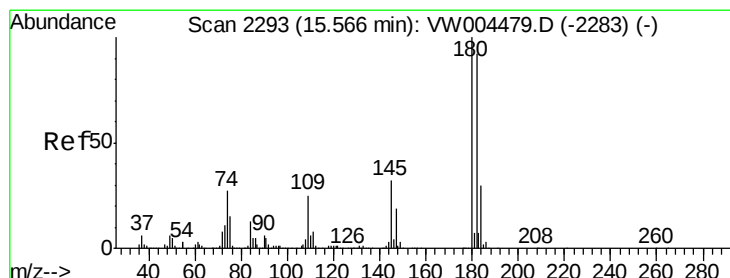
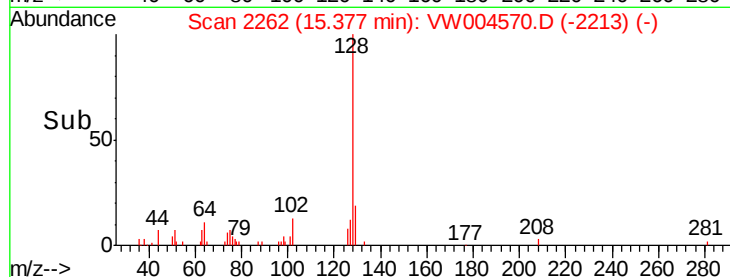
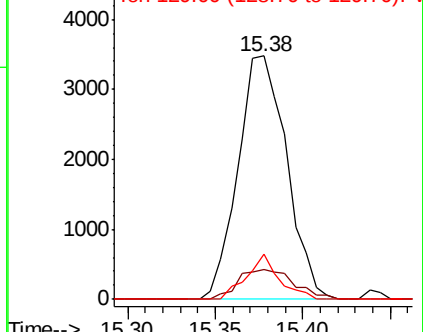
129 12.5 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 3.208 ug/l

RT: 15.56 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VW004570.D

Acq: 10 Aug 2018 00:17

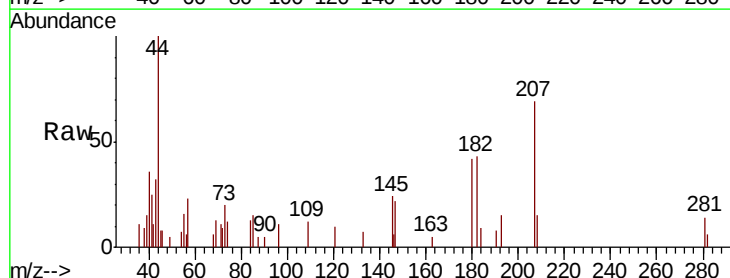
Tgt Ion:180 Resp: 955

Ion Ratio Lower Upper

180 100

182 82.1 47.0 141.2

145 53.9 15.9 47.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

