

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW101818\
 Data File : VW006211.D
 Acq On : 19 Oct 2018 08:39
 Operator : VA/AP
 Sample : J5195-05
 Misc : 5.23G/5ML/MSVOA_W/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-101818-B

Quant Time: Oct 19 10:53:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 18 17:01:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	164474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	212131	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	109952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	26967	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	77550	56.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.74%	
35) Dibromofluoromethane	7.89	113	73985	59.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.04%	
50) Toluene-d8	10.33	98	144116	30.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.44%	
62) 4-Bromofluorobenzene	12.62	95	41286	23.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	46.10%	

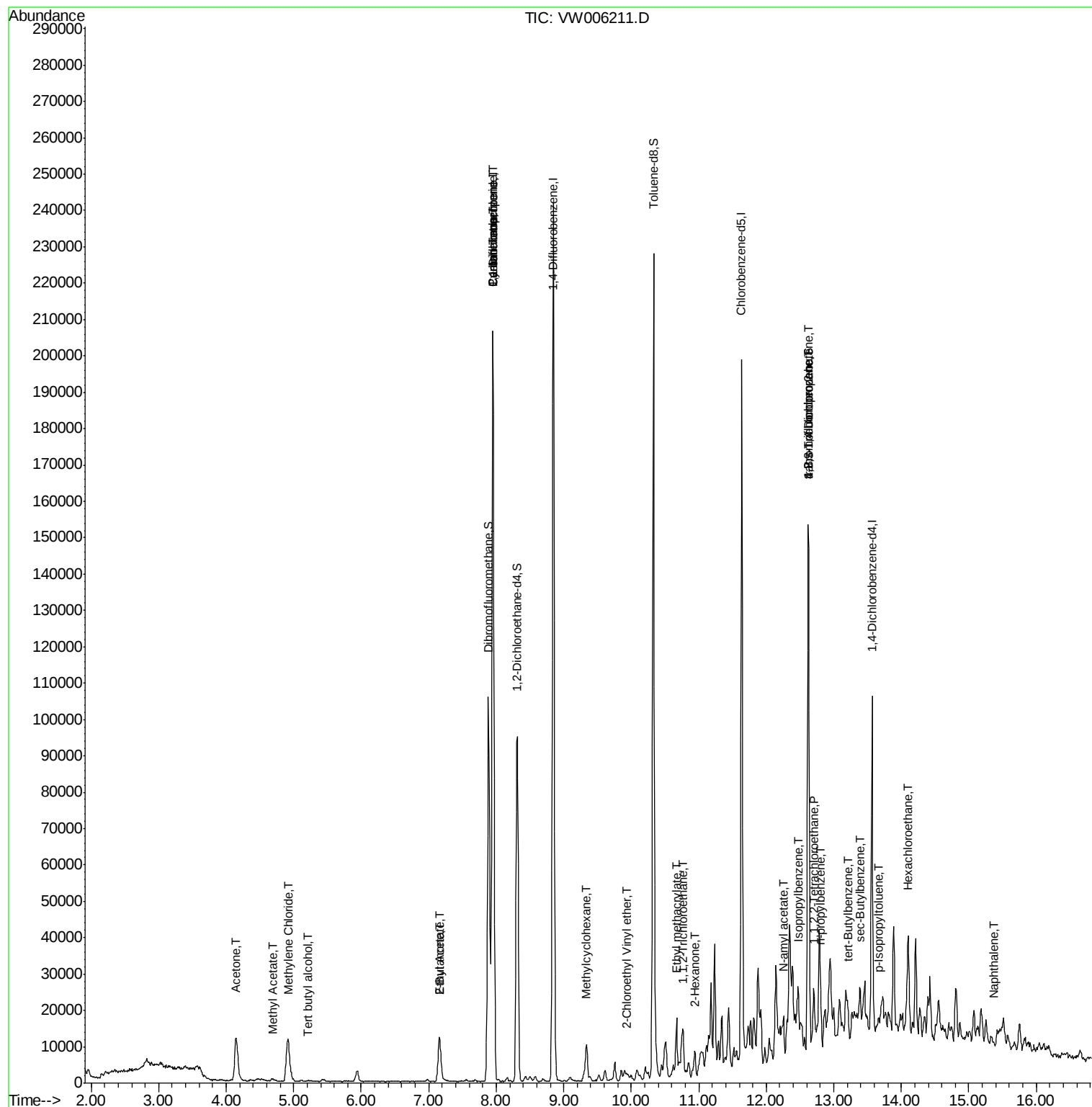
Target Compounds						Qvalue
11) Tert butyl alcohol	5.22	59	106	1.16	ug/l #	71
16) Acetone	4.15	43	25519	90.30	ug/l	100
18) Methyl Acetate	4.69	43	1472	2.15	ug/l #	70
20) Methylene Chloride	4.92	84	10475	5.82	ug/l #	90
25) 2-Butanone	7.17	43	808	2.19	ug/l	90
31) Cyclohexane	7.95	56	3145	1.26	ug/l #	29
36) 1,1-Dichloropropene	7.95	75	10892	5.57	ug/l #	49
37) Ethyl Acetate	7.17	43	808	1.11	ug/l #	1
38) Carbon Tetrachloride	7.95	117	14520	6.77	ug/l #	16
39) Methylcyclohexane	9.34	83	4315	1.66	ug/l #	87
55) 1,1,2-Trichloroethane	10.76	97	4372	4.27	ug/l #	21
56) Ethyl methacrylate	10.67	69	1480	1.18	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.93	63	484	1.01	ug/l #	61
59) 2-Hexanone	10.94	43	2625	4.94	ug/l #	26
73) Isopropylbenzene	12.47	105	8292	4.35	ug/l	95
74) N-amyl acetate	12.26	43	2328	6.29	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.70	83	896	3.09	ug/l #	53
76) 1,2,3-Trichloropropane	12.62	75	20833	101.14	ug/l #	100
78) n-propylbenzene	12.81	91	6135	2.77	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	20833	241.77	ug/l #	10
83) tert-Butylbenzene	13.21	119	1929	1.34	ug/l	94
85) sec-Butylbenzene	13.39	105	5345	2.63	ug/l #	63
86) p-Isopropyltoluene	13.66	119	2672	1.46	ug/l	97
90) Hexachloroethane	14.11	117	1395	4.49	ug/l #	4
95) Naphthalene	15.38	128	1168	1.10	ug/l #	88

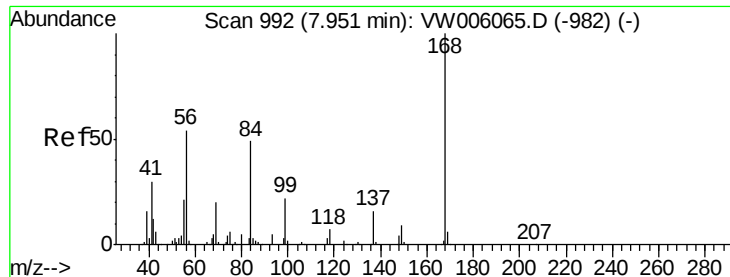
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 18 17:01:24 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

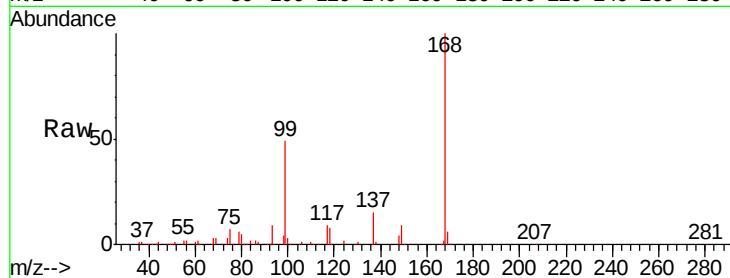
JC-02-101818-B

Tgt Ion:168 Resp: 164474

Ion Ratio Lower Upper

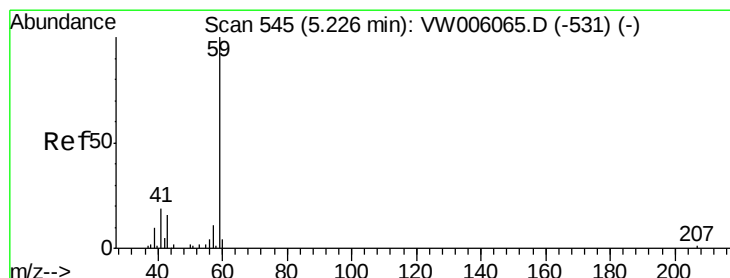
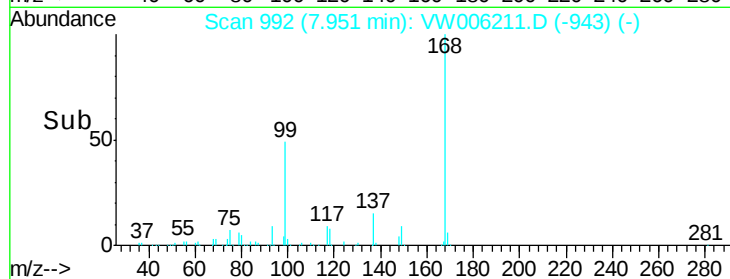
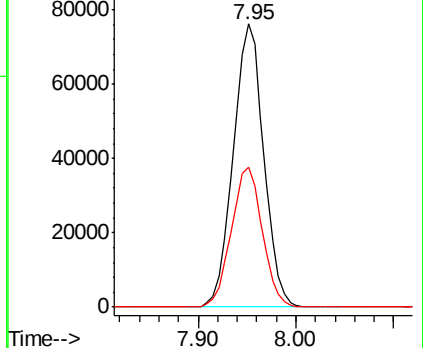
168 100

99 49.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.16 ug/l

RT: 5.22 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW006211.D

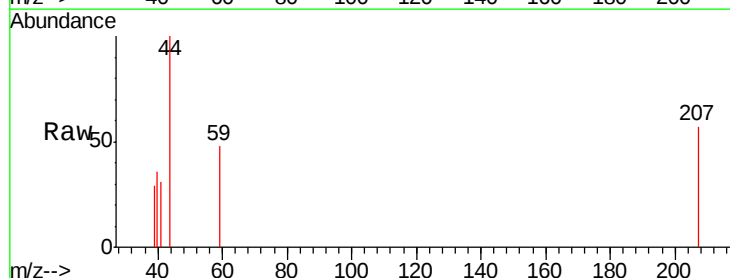
Acq: 19 Oct 2018 08:39

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

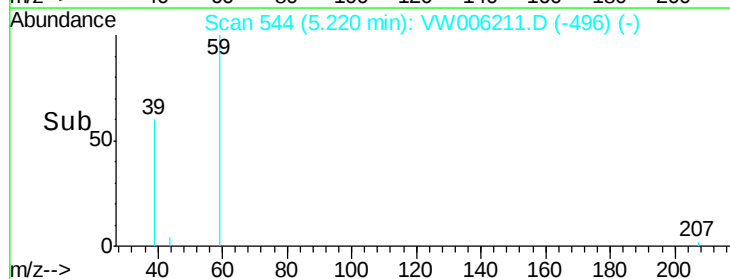
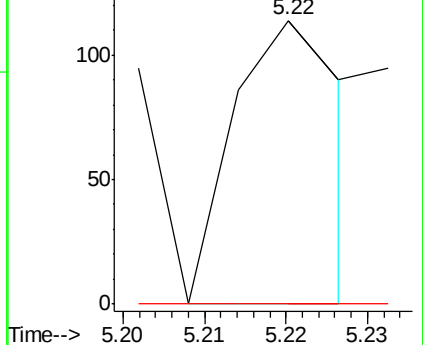
59 100

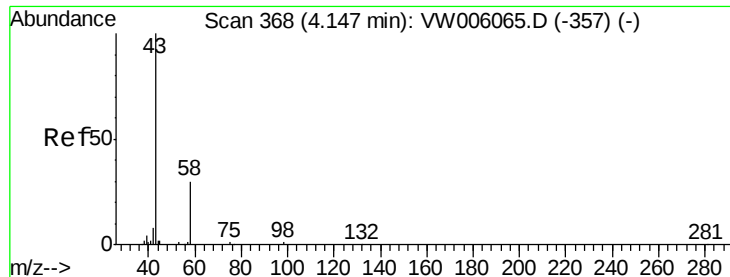
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 90.30 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

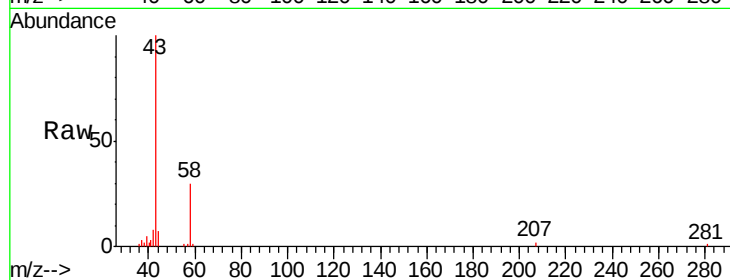
JC-02-101818-B

Tgt Ion: 43 Resp: 25519

Ion Ratio Lower Upper

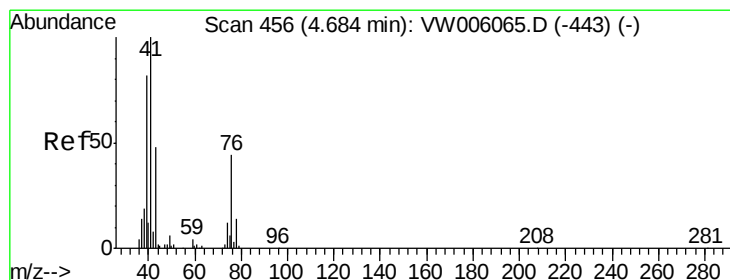
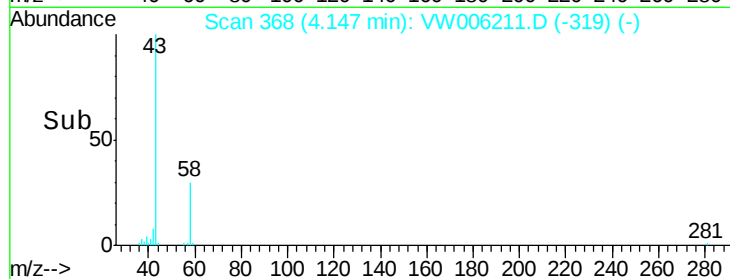
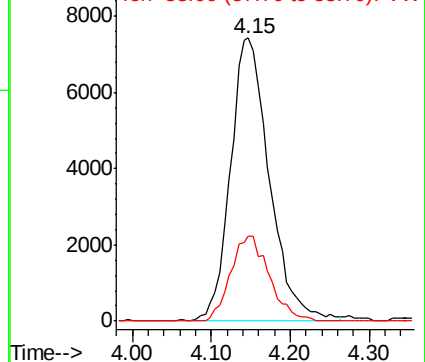
43 100

58 30.2 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 2.15 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW006211.D

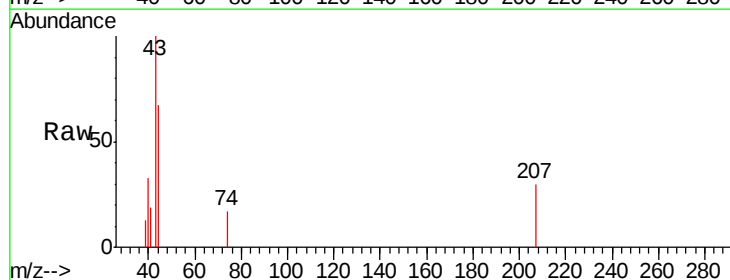
Acq: 19 Oct 2018 08:39

Tgt Ion: 43 Resp: 1472

Ion Ratio Lower Upper

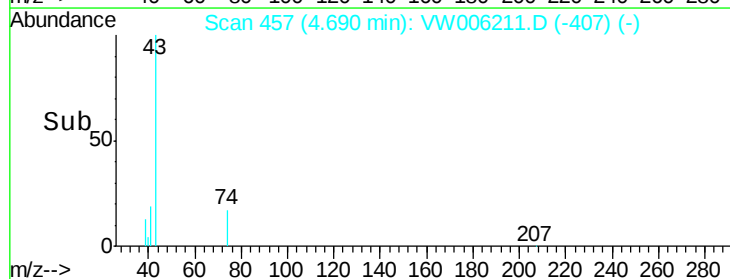
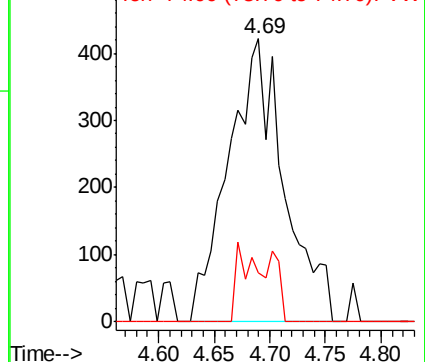
43 100

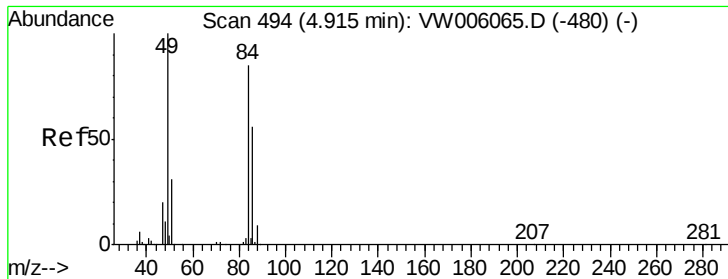
74 10.3 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

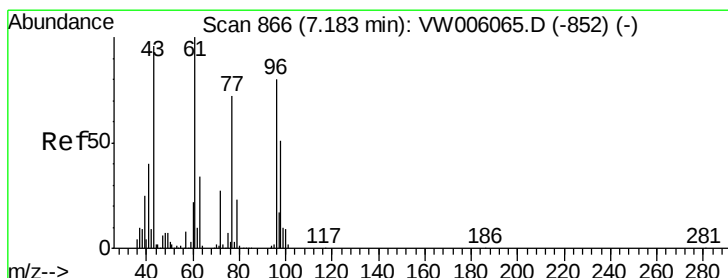
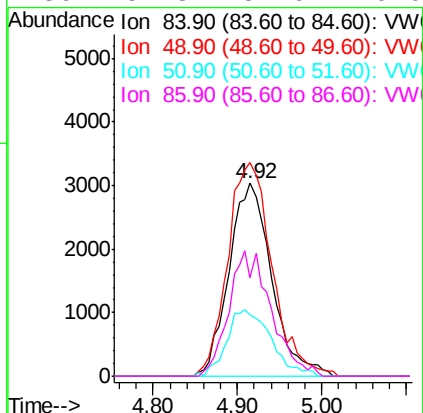
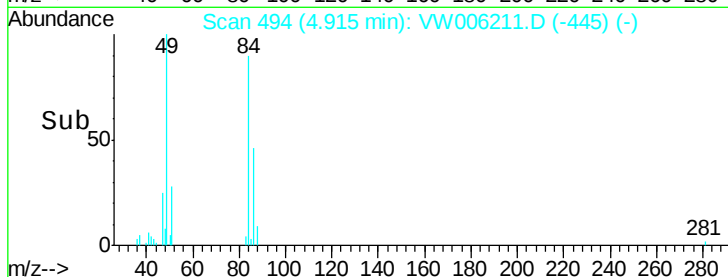
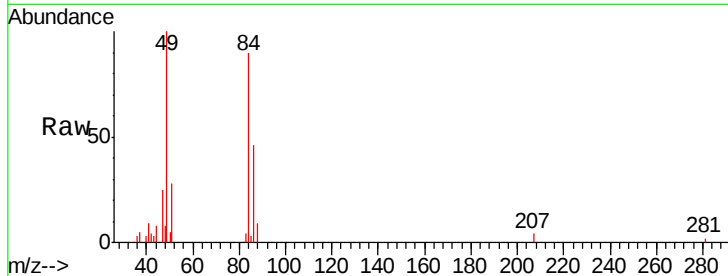




#20
Methylene Chloride
Concen: 5.82 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

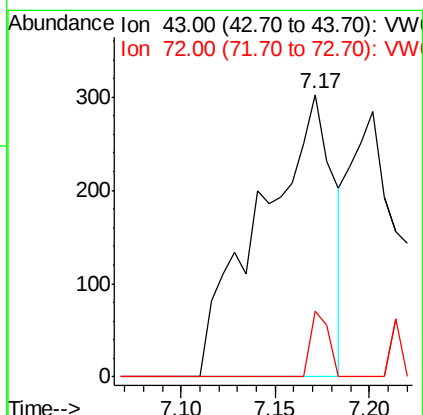
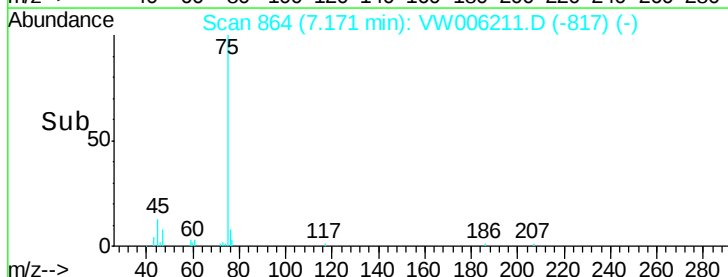
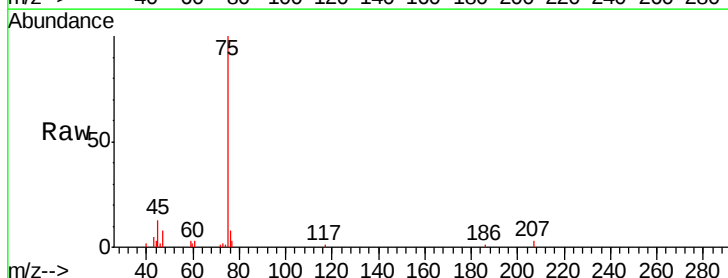
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

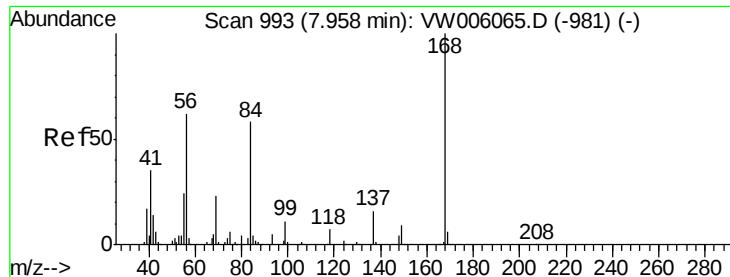
Tgt Ion:	84	Resp:	10475
Ion	Ratio	Lower	Upper
84	100		
49	110.7	93.6	140.4
51	31.5	29.0	43.4
86	51.3	52.6	79.0#



#25
2-Butanone
Concen: 2.19 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion:	43	Resp:	808
Ion	Ratio	Lower	Upper
43	100		
72	23.1	22.8	34.2

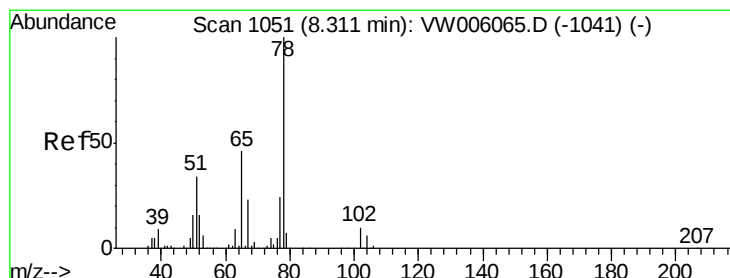
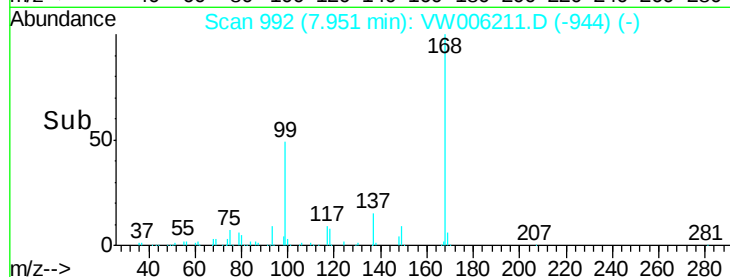
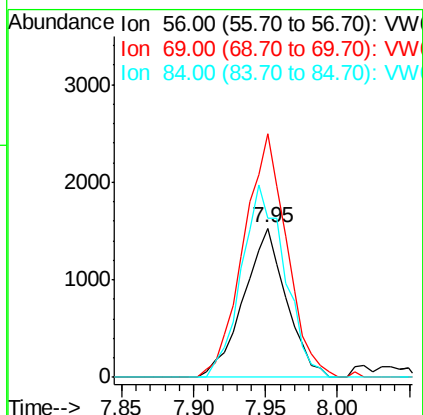
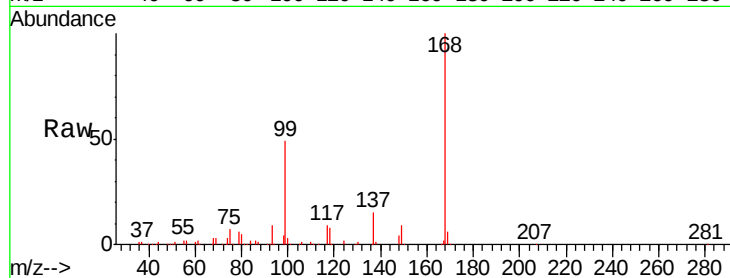




#31
Cyclohexane
Concen: 1.26 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

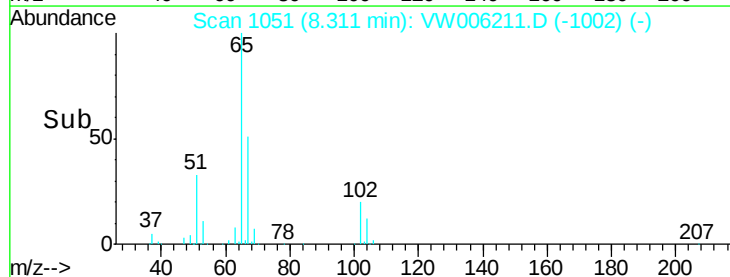
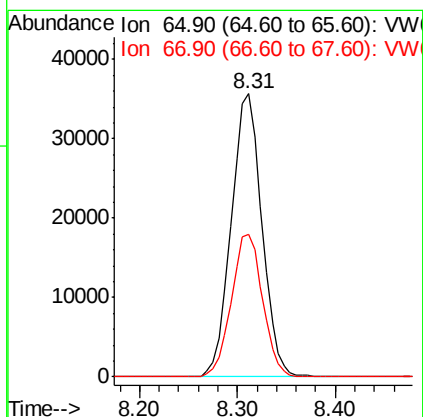
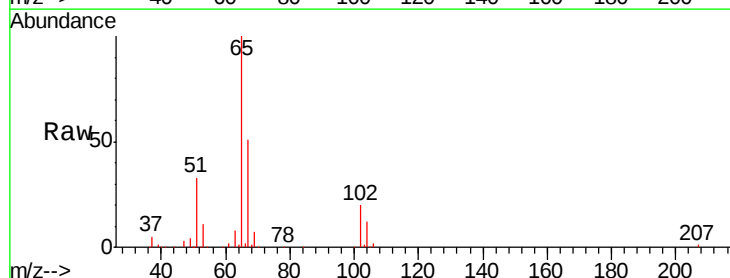
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

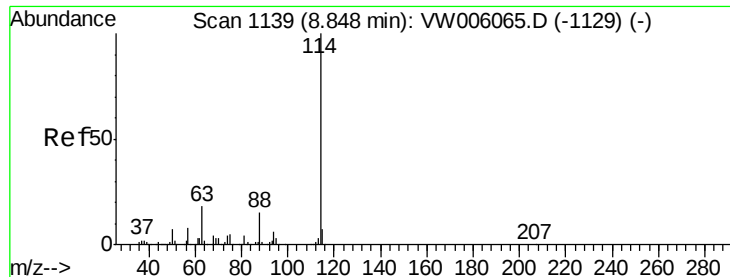
Tgt Ion: 56 Resp: 3145
Ion Ratio Lower Upper
56 100
69 162.9 29.4 44.0#
84 106.3 74.0 111.0



#33
1,2-Dichloroethane-d4
Concen: 56.87 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion: 65 Resp: 77550
Ion Ratio Lower Upper
65 100
67 51.3 0.0 101.0

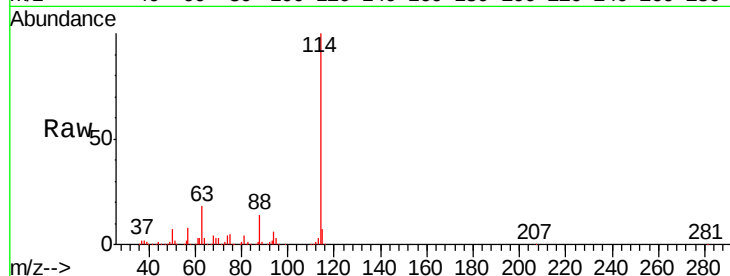




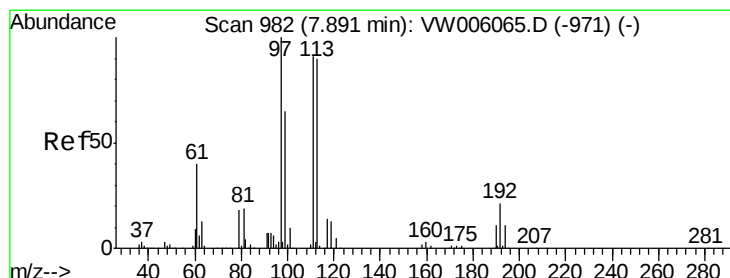
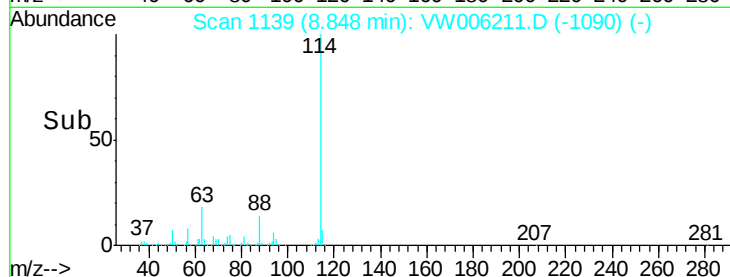
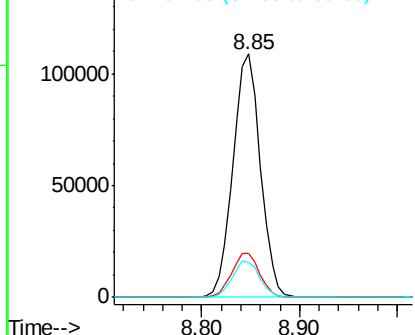
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW006211.D
 Acq: 19 Oct 2018 08:39

Instrument :
 MSVOA_W
 ClientSampleId :
 JC-02-101818-B

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	36.8
88	14.5	0.0	29.0

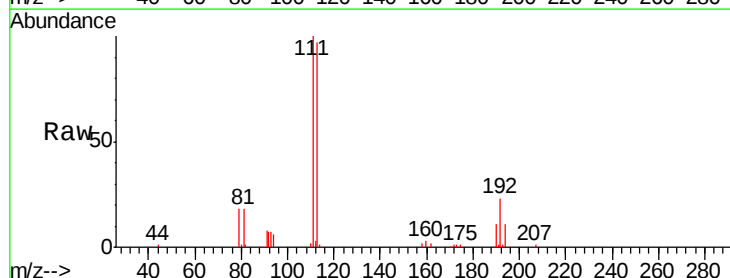


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

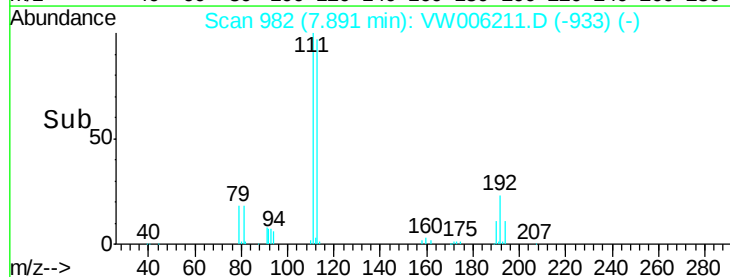
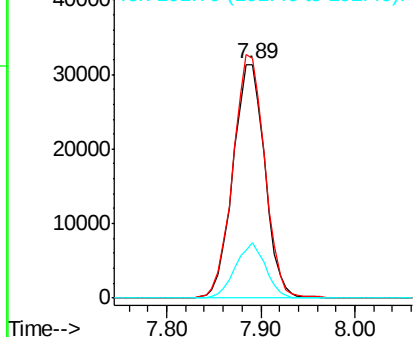


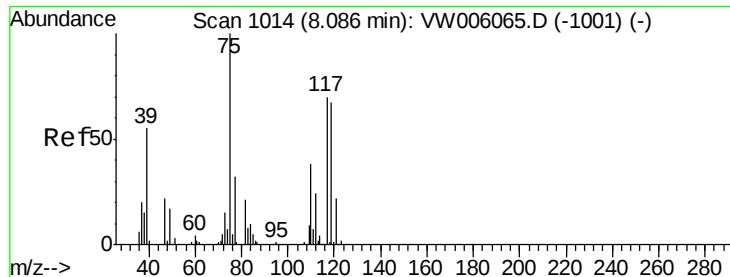
#35
 Dibromofluoromethane
 Concen: 59.02 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW006211.D
 Acq: 19 Oct 2018 08:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.4	122.0
192	22.5	18.7	28.1



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: 5.57 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

JC-02-101818-B

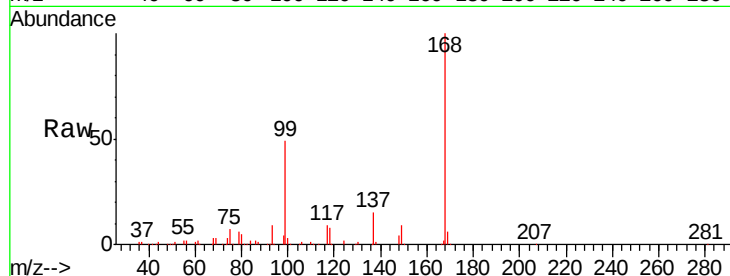
Tgt Ion: 75 Resp: 10892

Ion Ratio Lower Upper

75 100

110 10.4 19.1 57.1#

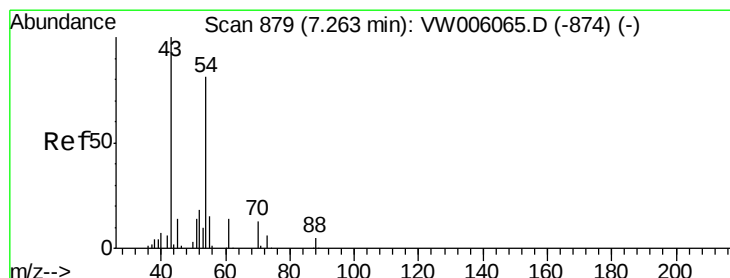
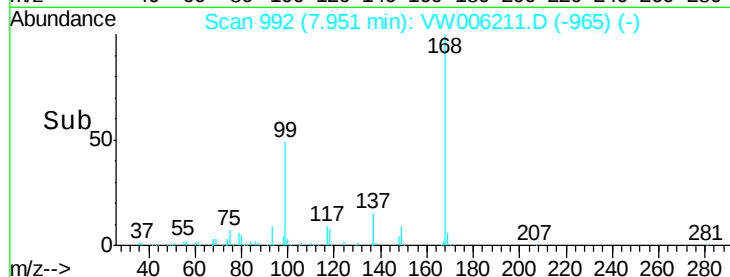
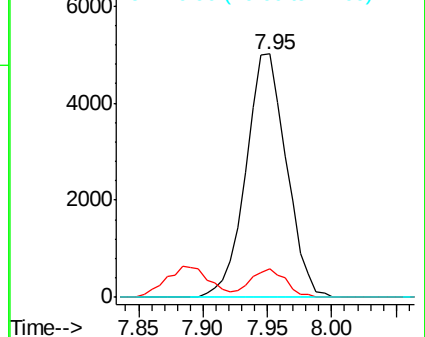
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 1.11 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.09 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

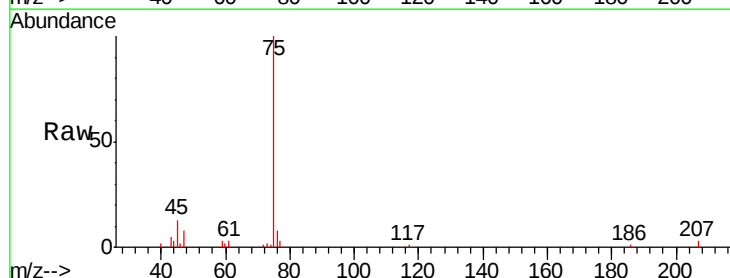
Tgt Ion: 43 Resp: 808

Ion Ratio Lower Upper

43 100

61 87.9 11.5 17.3#

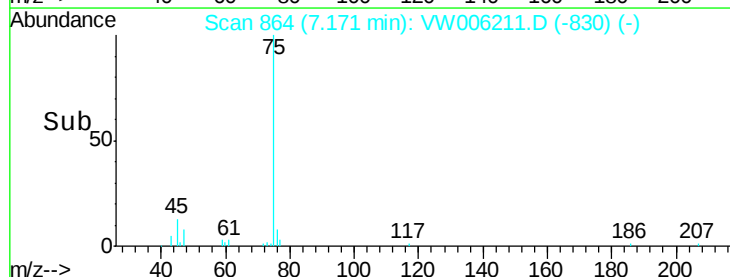
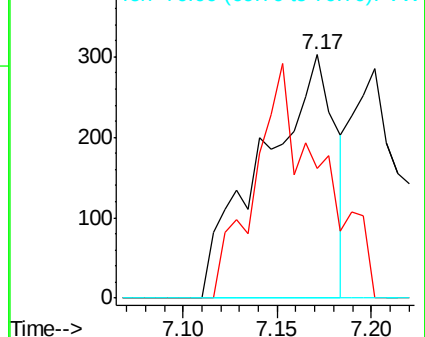
70 0.0 9.2 13.8#

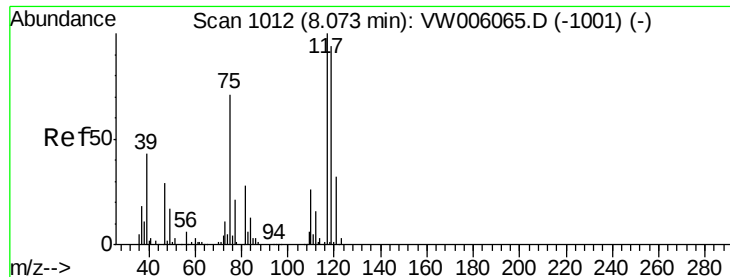


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.77 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

JC-02-101818-B

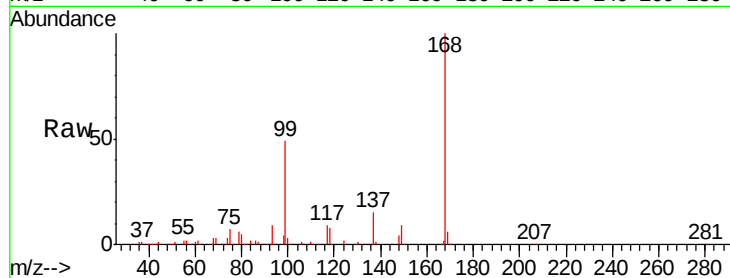
Tgt Ion:117 Resp: 14520

Ion Ratio Lower Upper

117 100

119 4.8 75.2 112.8#

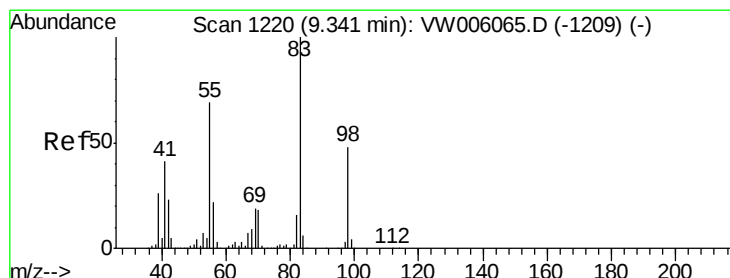
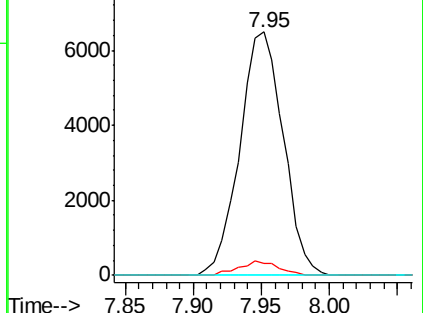
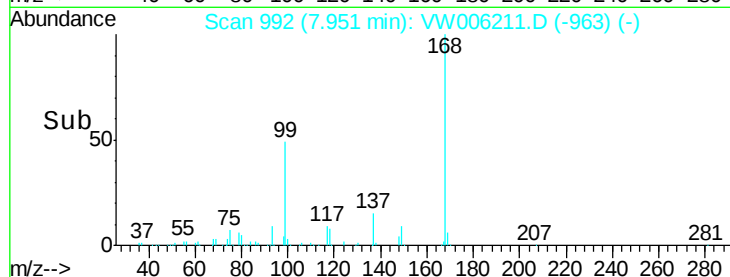
121 0.0 25.3 37.9#



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



#39

Methylcyclohexane

Concen: 1.66 ug/l

RT: 9.34 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

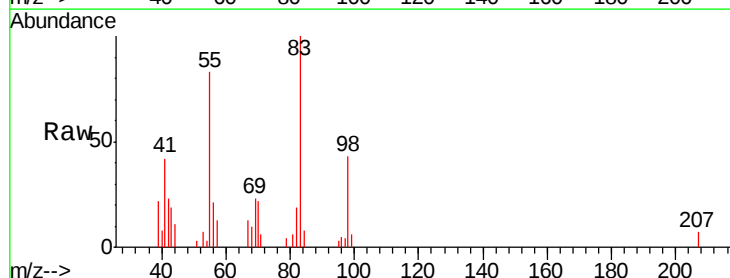
Tgt Ion: 83 Resp: 4315

Ion Ratio Lower Upper

83 100

55 82.9 55.0 82.6#

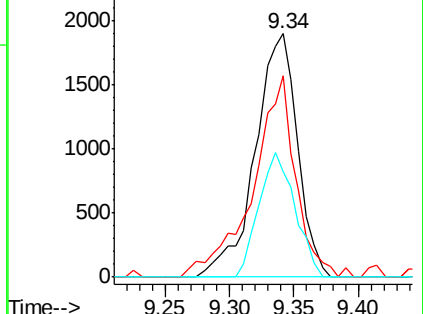
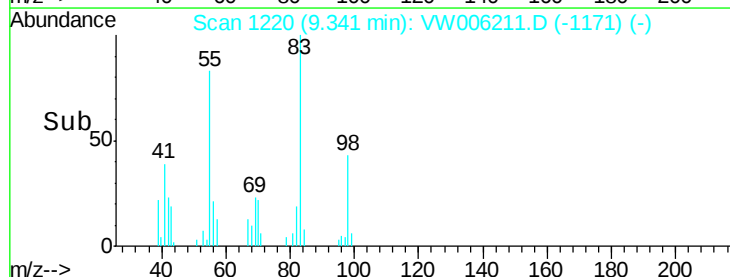
98 43.5 38.6 57.8

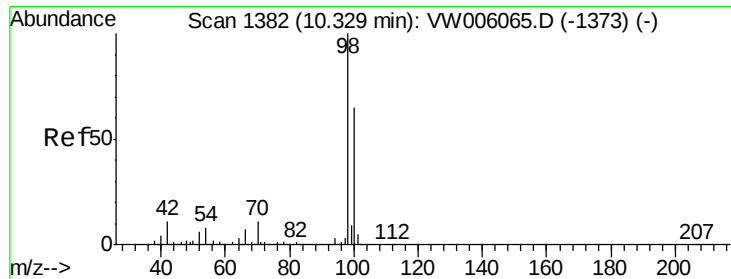


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#50

Toluene-d8

Concen: 30.22 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

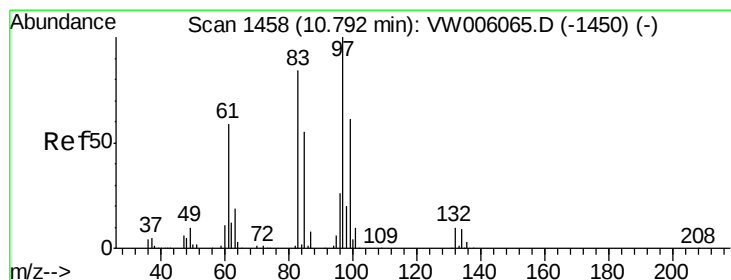
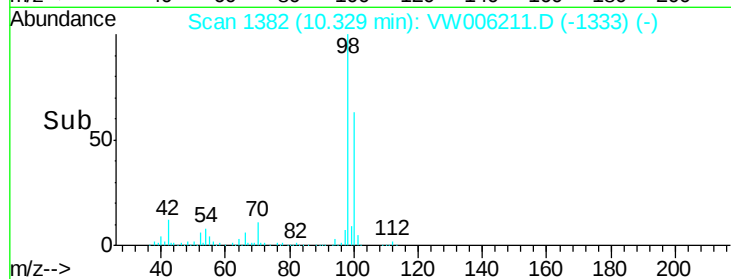
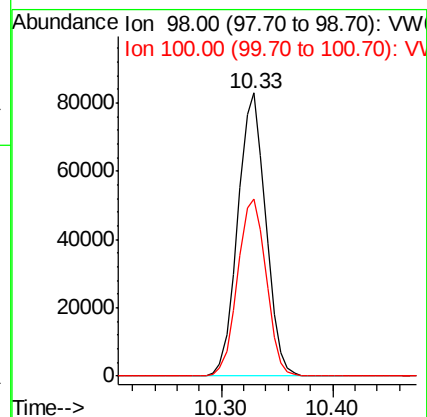
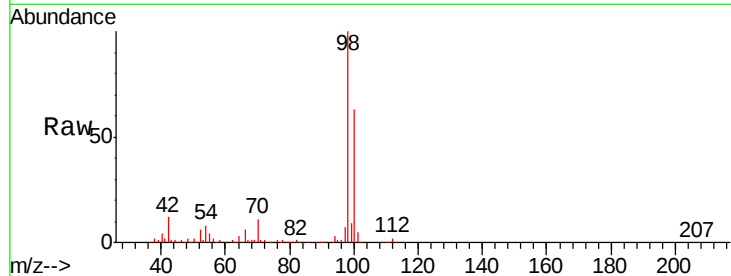
JC-02-101818-B

Tgt Ion: 98 Resp: 144116

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#55

1,1,2-Trichloroethane

Concen: 4.27 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.03 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Tgt Ion: 97 Resp: 4372

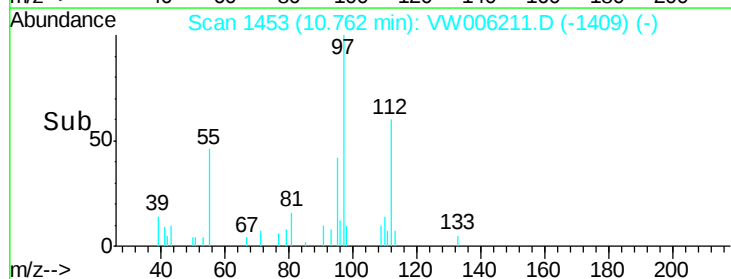
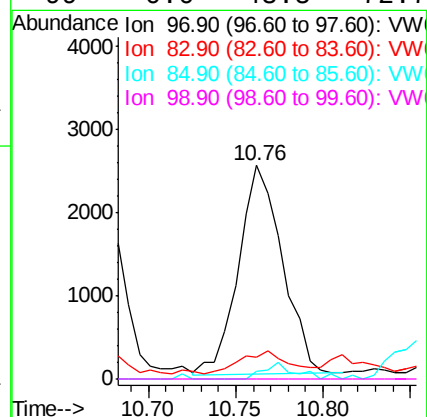
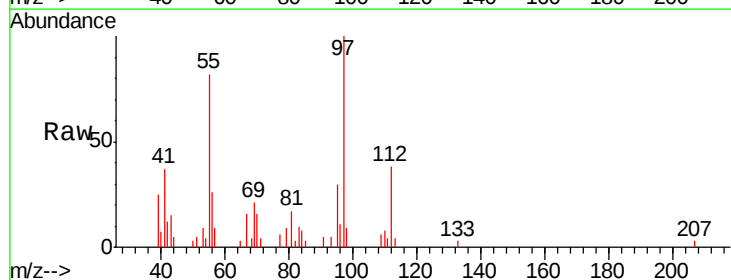
Ion Ratio Lower Upper

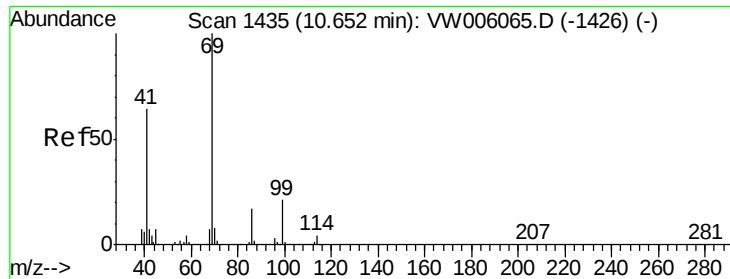
97 100

83 7.0 67.2 100.8#

85 3.6 43.7 65.5#

99 0.0 48.5 72.7#





#56

Ethyl methacrylate

Concen: 1.18 ug/l

RT: 10.67 min Scan# 1438

Delta R.T. 0.02 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampled :

JC-02-101818-B

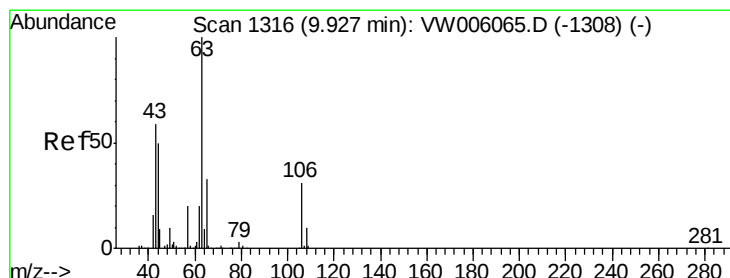
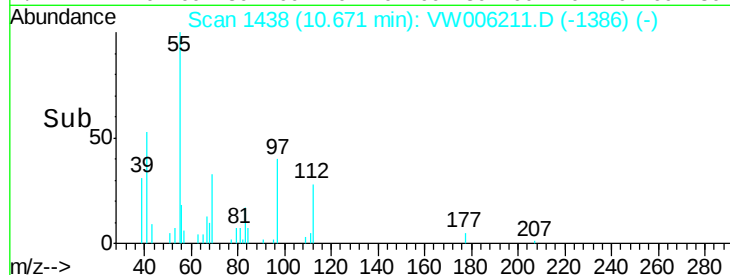
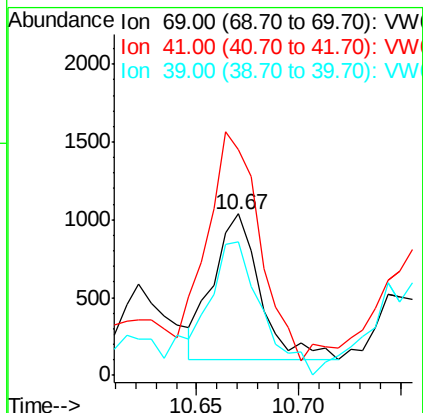
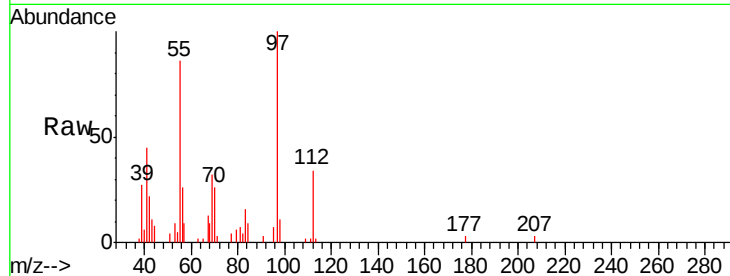
Tgt Ion: 69 Resp: 1480

Ion Ratio Lower Upper

69 100

41 177.6 52.8 79.2#

39 113.4 30.6 45.8#



#58

2-Chloroethyl Vinyl ether

Concen: 1.01 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VW006211.D

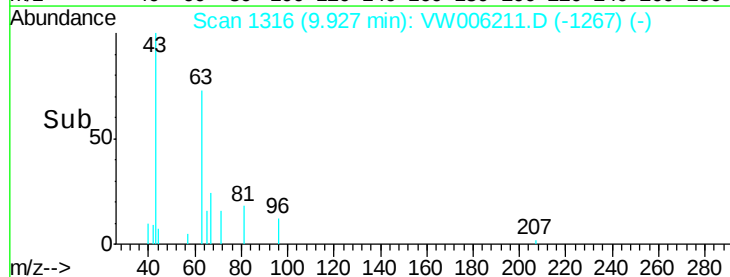
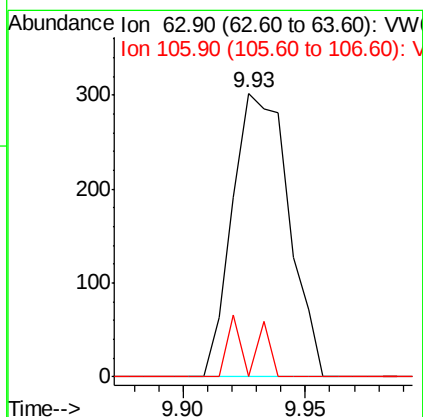
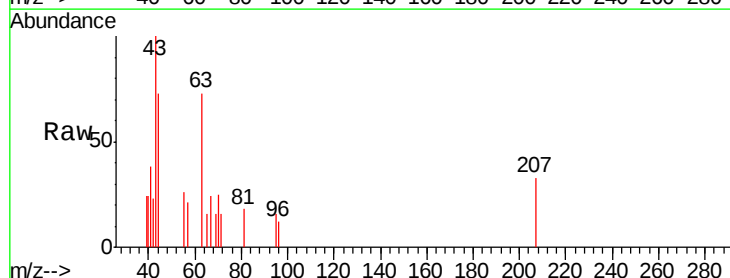
Acq: 19 Oct 2018 08:39

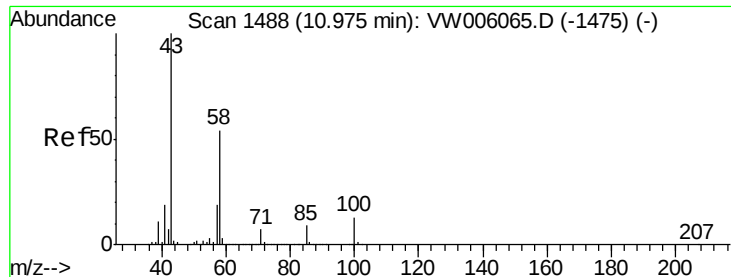
Tgt Ion: 63 Resp: 484

Ion Ratio Lower Upper

63 100

106 9.5 24.5 36.7#

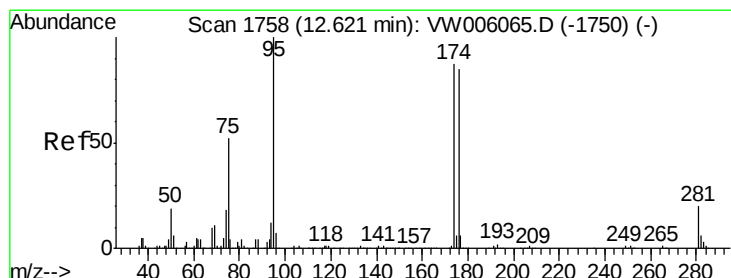
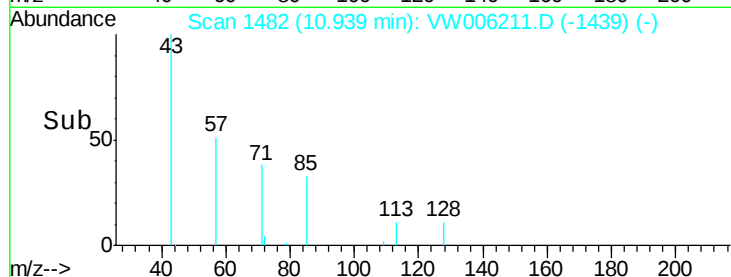
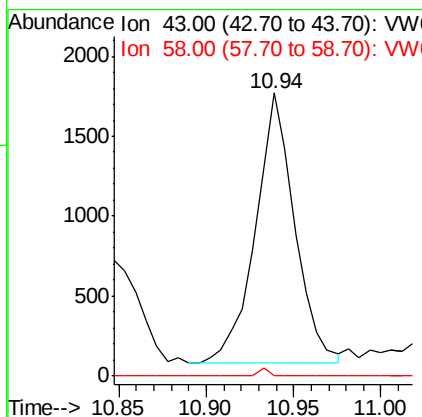
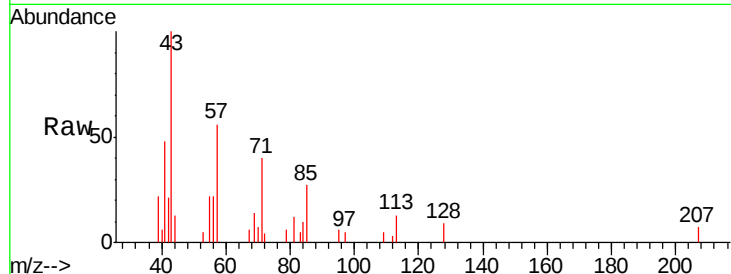




#59
2-Hexanone
Concen: 4.94 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

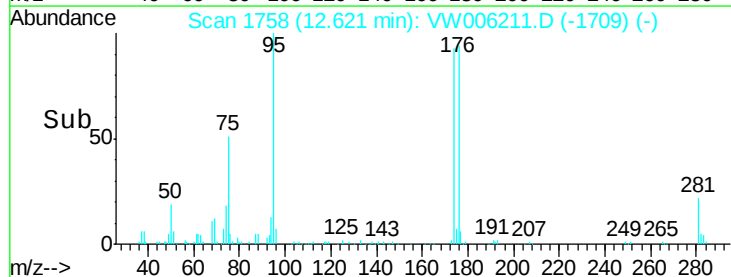
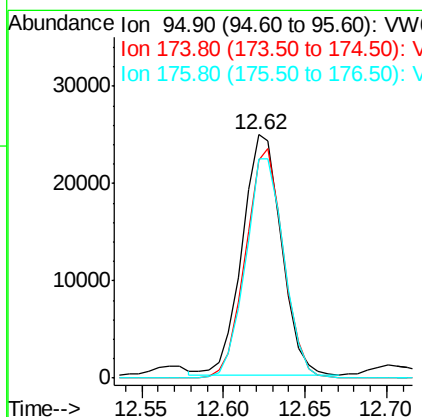
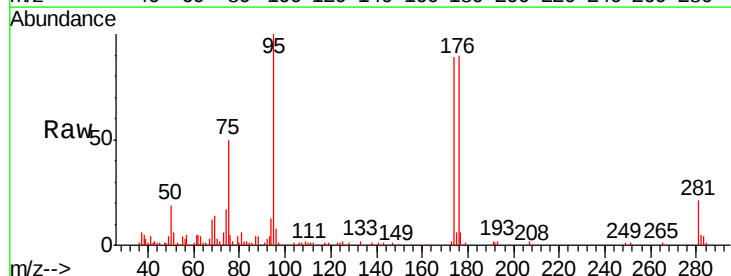
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

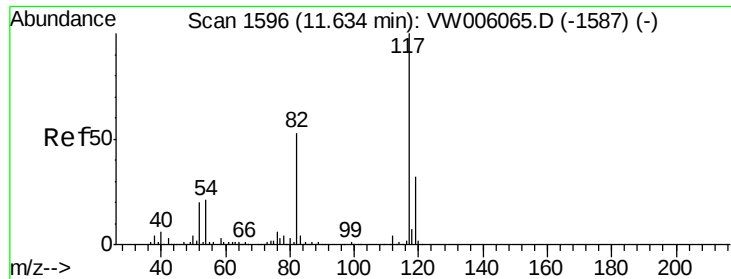
Tgt Ion: 43 Resp: 2625
Ion Ratio Lower Upper
43 100
58 0.7 26.9 80.6#



#62
4-Bromofluorobenzene
Concen: 23.05 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion: 95 Resp: 41286
Ion Ratio Lower Upper
95 100
174 91.9 0.0 186.0
176 89.8 0.0 181.6

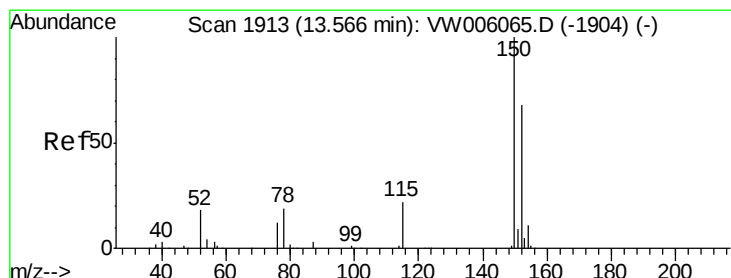
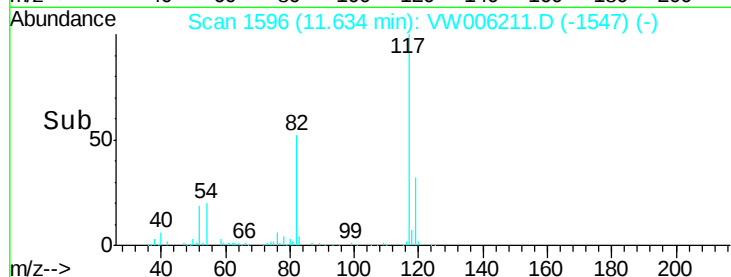
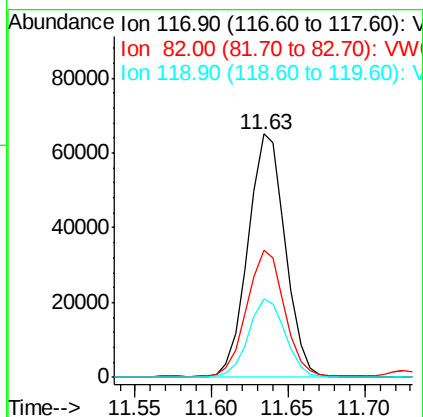
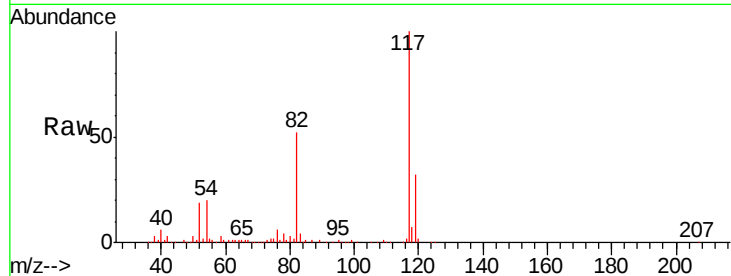




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

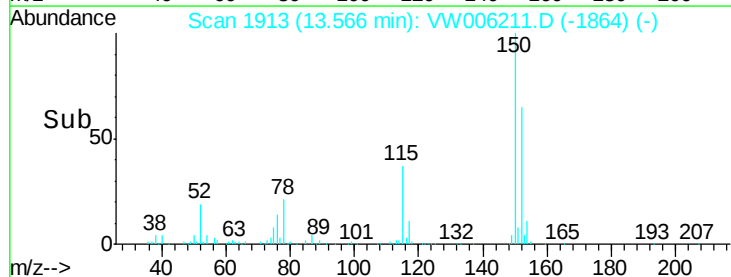
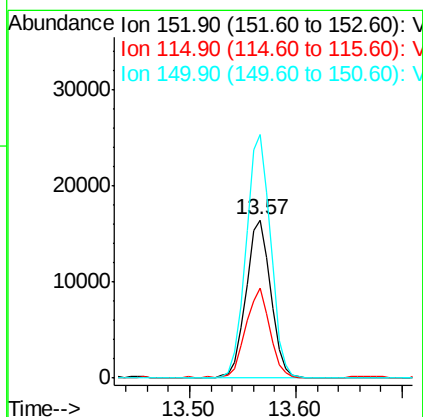
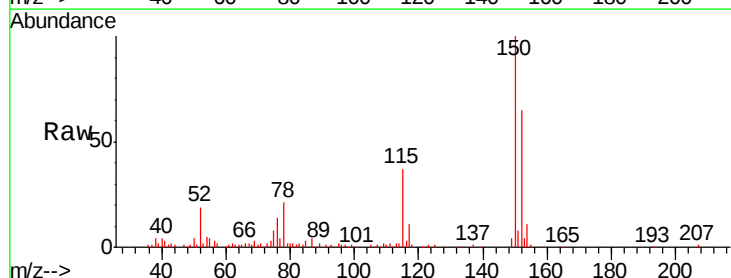
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

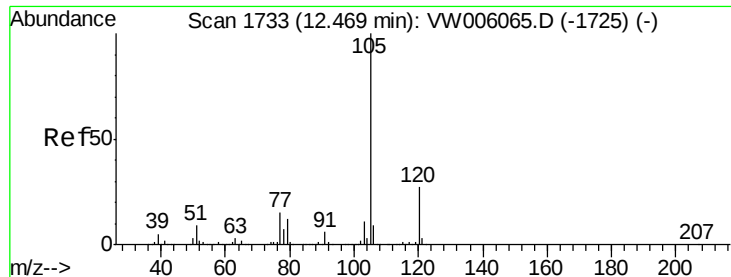
Tgt Ion:117 Resp: 109952
Ion Ratio Lower Upper
117 100
82 51.8 42.1 63.1
119 32.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion:152 Resp: 26967
Ion Ratio Lower Upper
152 100
115 55.9 27.8 83.3
150 152.5 0.0 349.2





#73

Isopropylbenzene

Concen: 4.35 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

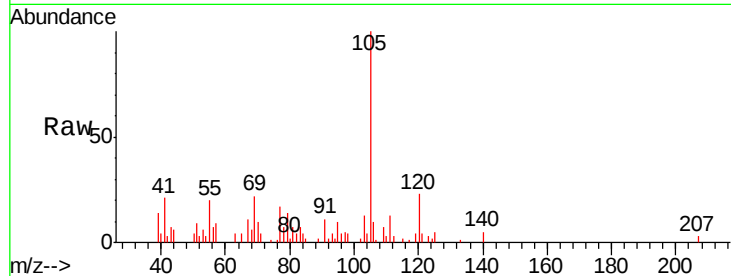
JC-02-101818-B

Tgt Ion: 105 Resp: 8292

Ion Ratio Lower Upper

105 100

120 24.6 13.6 40.7

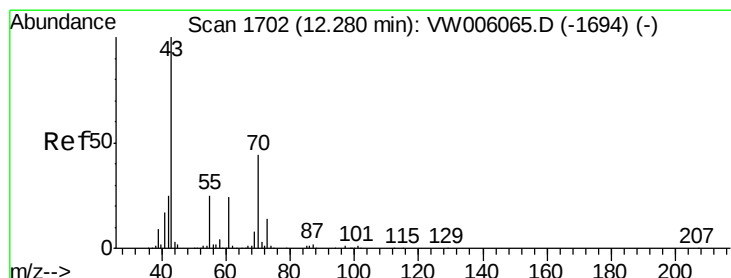
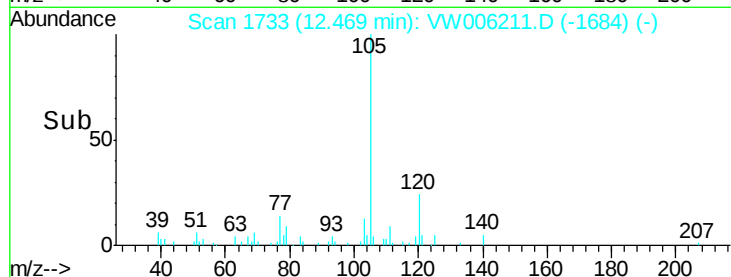


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.47

Time-->



#74

N-ethyl acetate

Concen: 6.29 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Tgt Ion: 43 Resp: 2328

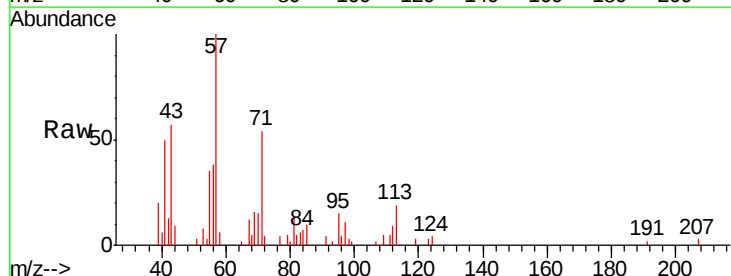
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.4#

55 0.0 19.2 28.8#

61 0.0 19.0 28.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

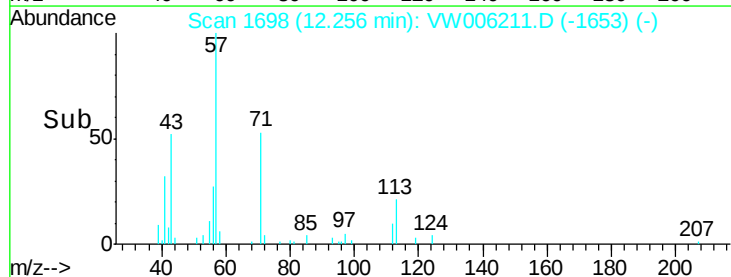
Ion 70.00 (69.70 to 70.70): VW

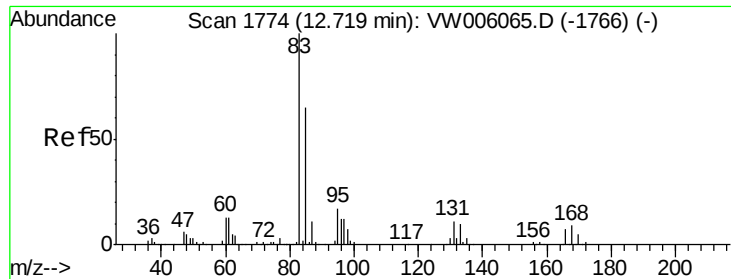
Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

12.26

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 3.09 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW006211.D

Acq: 19 Oct 2018 08:39

Instrument :

MSVOA_W

ClientSampleId :

JC-02-101818-B

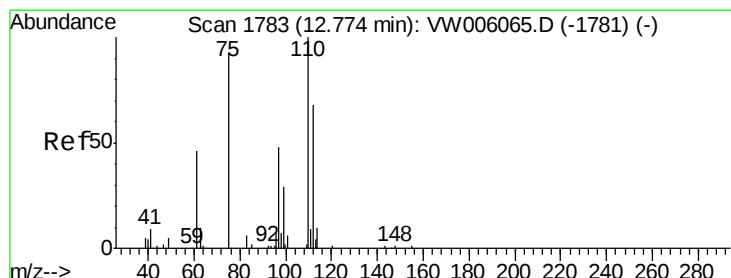
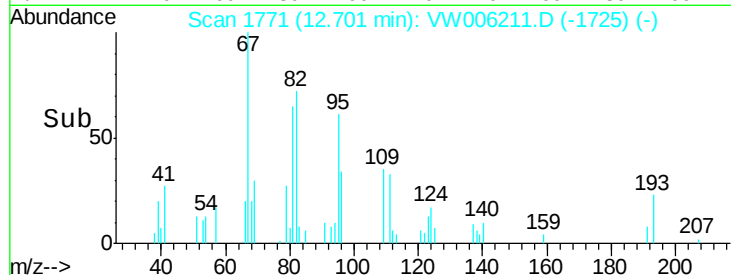
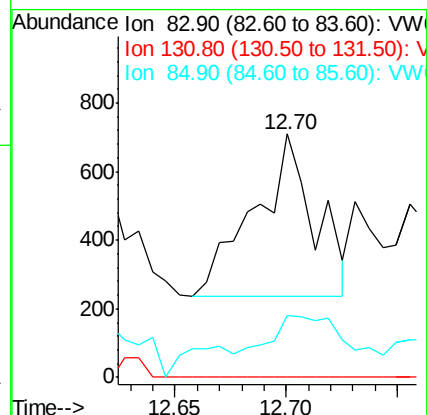
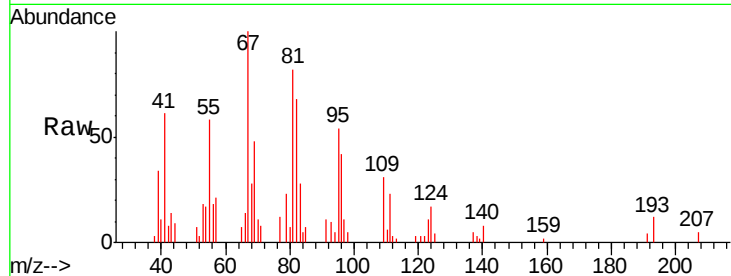
Tgt Ion: 83 Resp: 896

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

85 24.4 31.9 95.9#



#76

1,2,3-Trichloropropane

Concen: 101.14 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006211.D

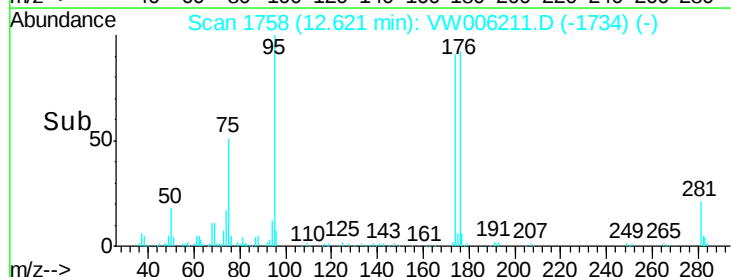
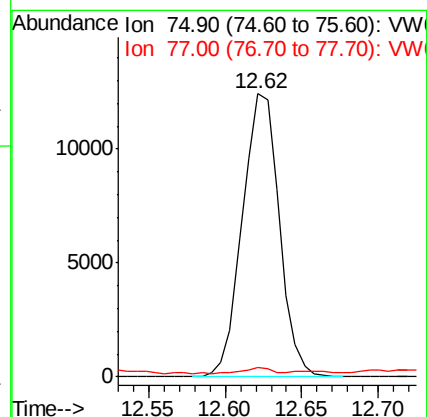
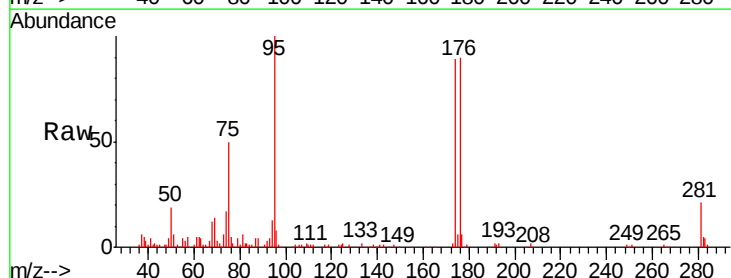
Acq: 19 Oct 2018 08:39

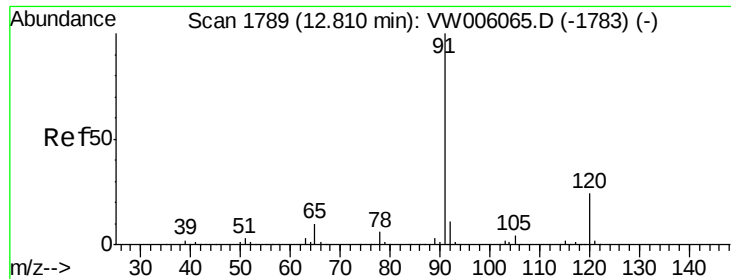
Tgt Ion: 75 Resp: 20833

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#

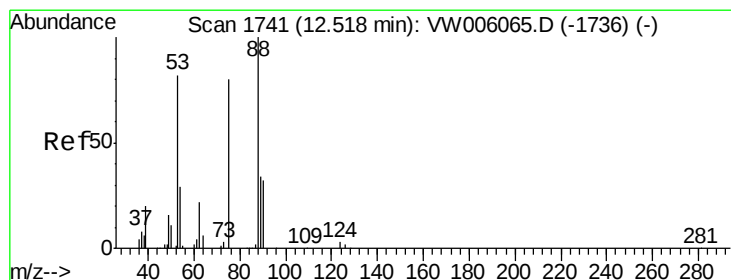
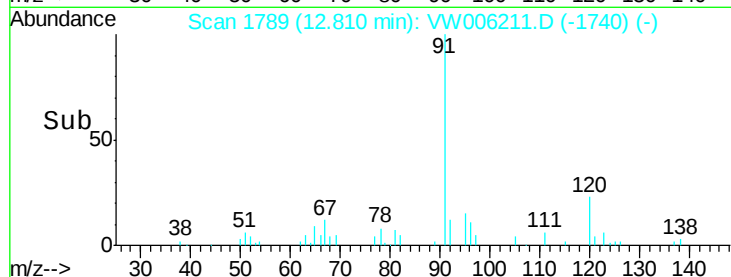
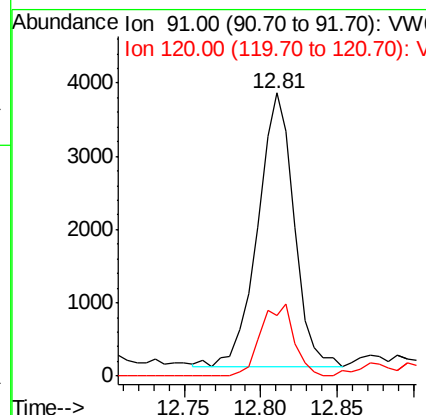
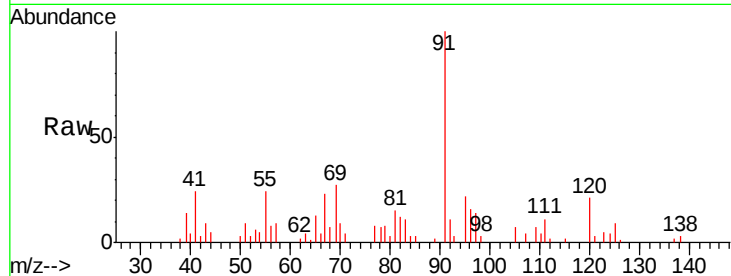




#78
n-propylbenzene
Concen: 2.77 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

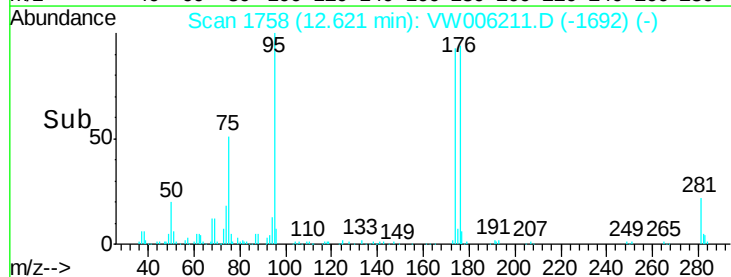
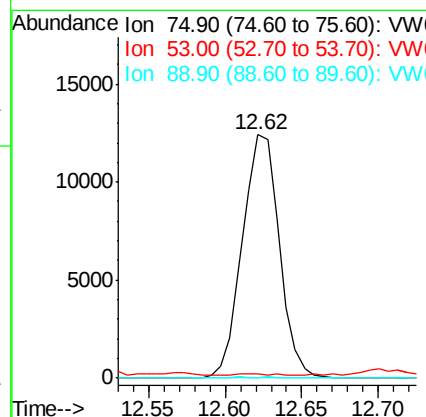
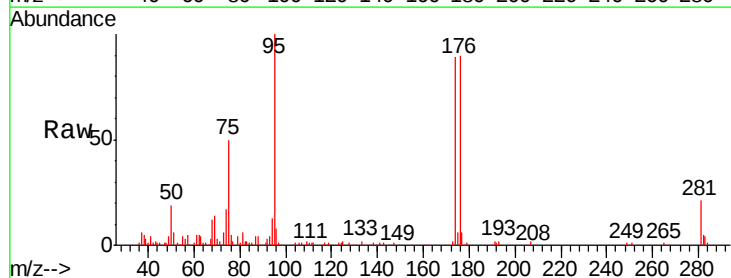
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

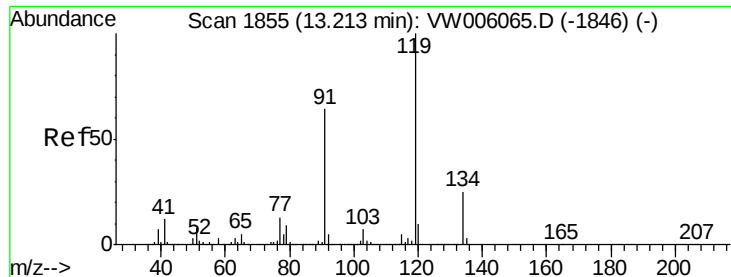
Tgt Ion: 91 Resp: 6135
Ion Ratio Lower Upper
91 100
120 24.2 12.2 36.6



#81
trans-1,4-Dichloro-2-butene
Concen: 241.77 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.10 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion: 75 Resp: 20833
Ion Ratio Lower Upper
75 100
53 0.9 79.8 119.6#
89 0.1 37.5 56.3#

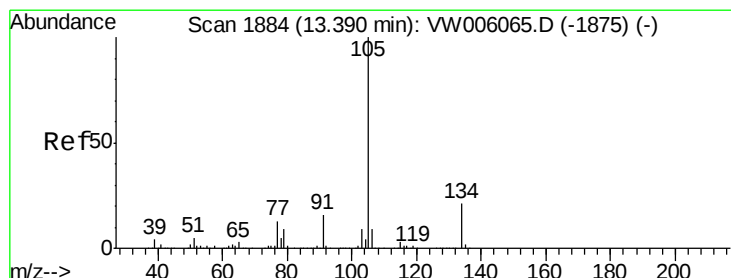
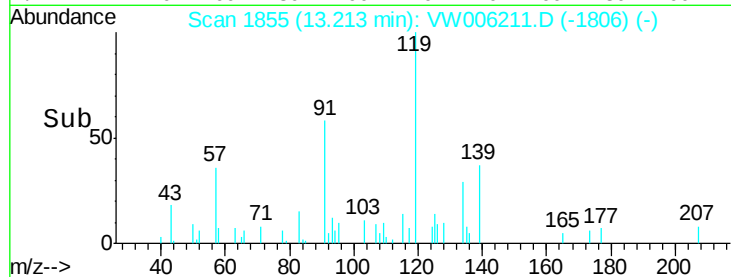
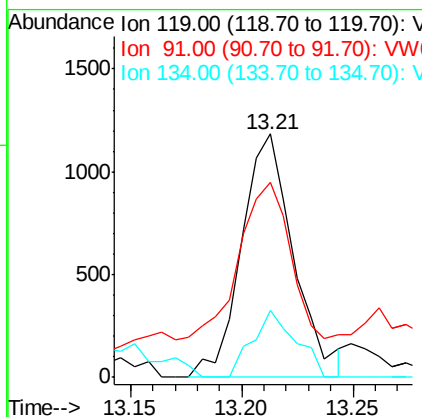
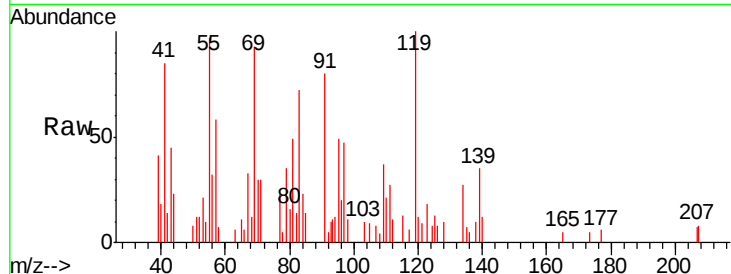




#83
tert-Butylbenzene
Concen: 1.34 ug/l
RT: 13.21 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

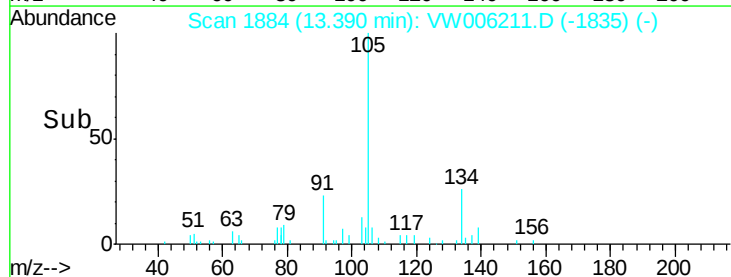
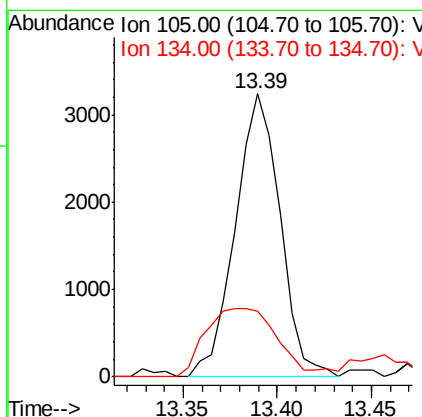
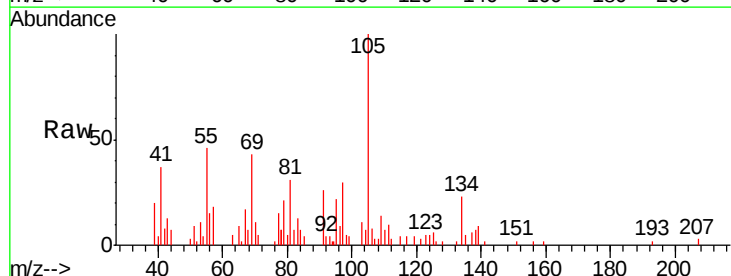
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

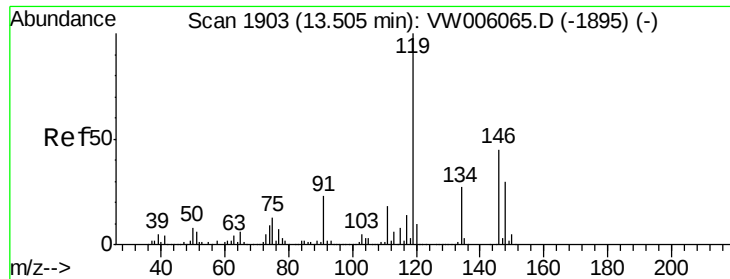
Tgt Ion:119 Resp: 1929
Ion Ratio Lower Upper
119 100
91 68.2 32.3 96.9
134 22.8 13.6 40.8



#85
sec-Butylbenzene
Concen: 2.63 ug/l
RT: 13.39 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion:105 Resp: 5345
Ion Ratio Lower Upper
105 100
134 38.3 10.5 31.6#

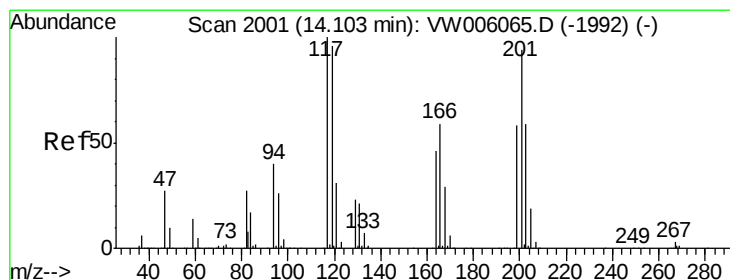
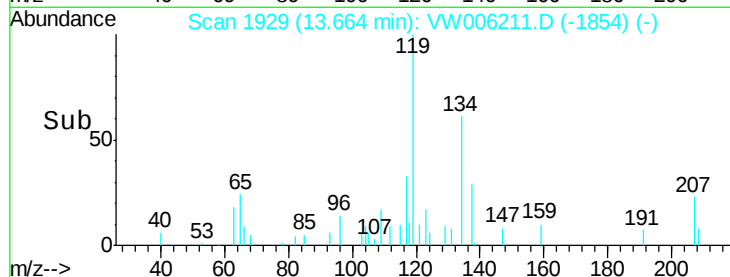
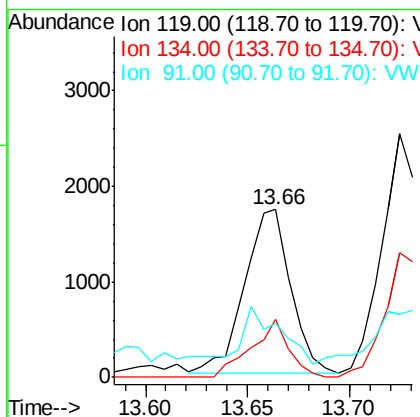
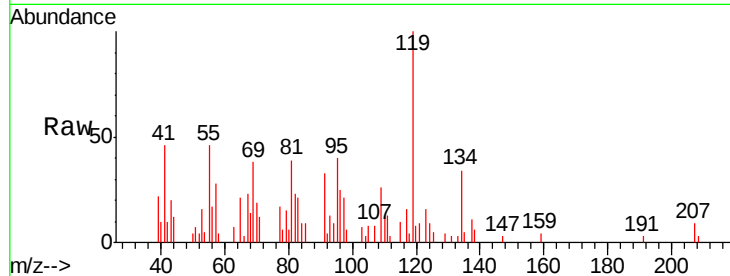




#86
p-Isopropyltoluene
Concen: 1.46 ug/l
RT: 13.66 min Scan# 1929
Delta R.T. 0.16 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

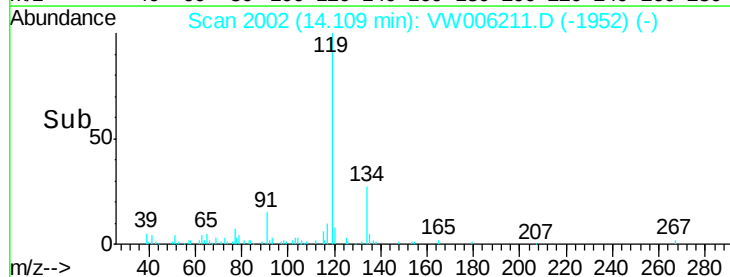
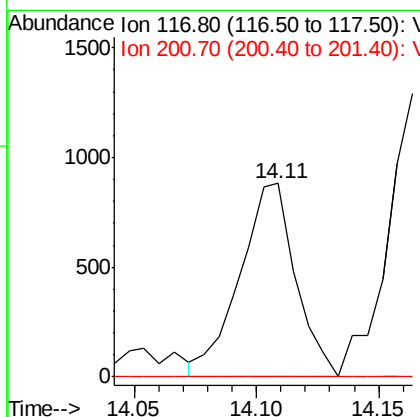
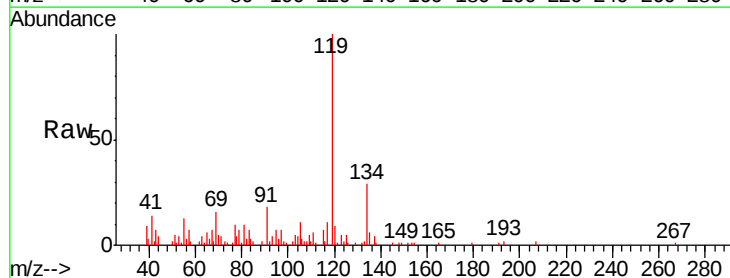
Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

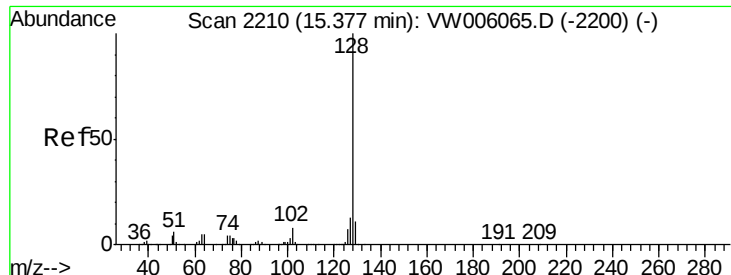
Tgt Ion:119 Resp: 2672
Ion Ratio Lower Upper
119 100
134 29.1 13.4 40.2
91 21.7 11.4 34.1



#90
Hexachloroethane
Concen: 4.49 ug/l
RT: 14.11 min Scan# 2002
Delta R.T. 0.01 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Tgt Ion:117 Resp: 1395
Ion Ratio Lower Upper
117 100
201 0.0 45.3 135.9#

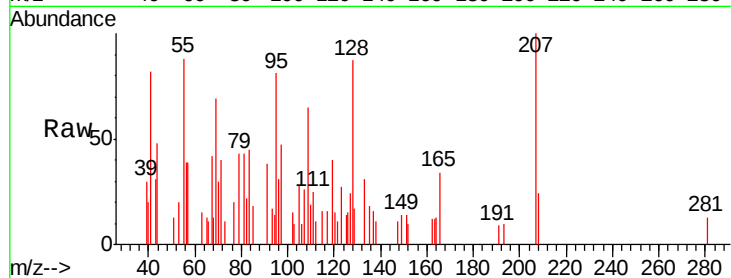




#95
Naphthalene
Concen: 1.10 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW006211.D
Acq: 19 Oct 2018 08:39

Instrument :
MSVOA_W
ClientSampleId :
JC-02-101818-B

Tgt Ion:128 Resp: 1168
Ion Ratio Lower Upper
128 100
127 14.8 10.3 15.5
129 3.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

