

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005461.D
 Acq On : 18 Sep 2018 05:26
 Operator : SY/AP
 Sample : J4946-01
 Misc : 6.62G/5ML/MSVOA_W/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RT

Quant Time: Sep 18 06:05:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	269423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	439220	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	351692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	137305	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	125257	44.79	ug/l	0.00
Spiked Amount			Recovery	=	89.58%	
35) Dibromofluoromethane	7.89	113	95332	38.71	ug/l	0.00
Spiked Amount			Recovery	=	77.42%	
50) Toluene-d8	10.33	98	352609	31.27	ug/l	0.00
Spiked Amount			Recovery	=	62.54%	
62) 4-Bromofluorobenzene	12.63	95	122141	29.54	ug/l	0.00
Spiked Amount			Recovery	=	59.08%	

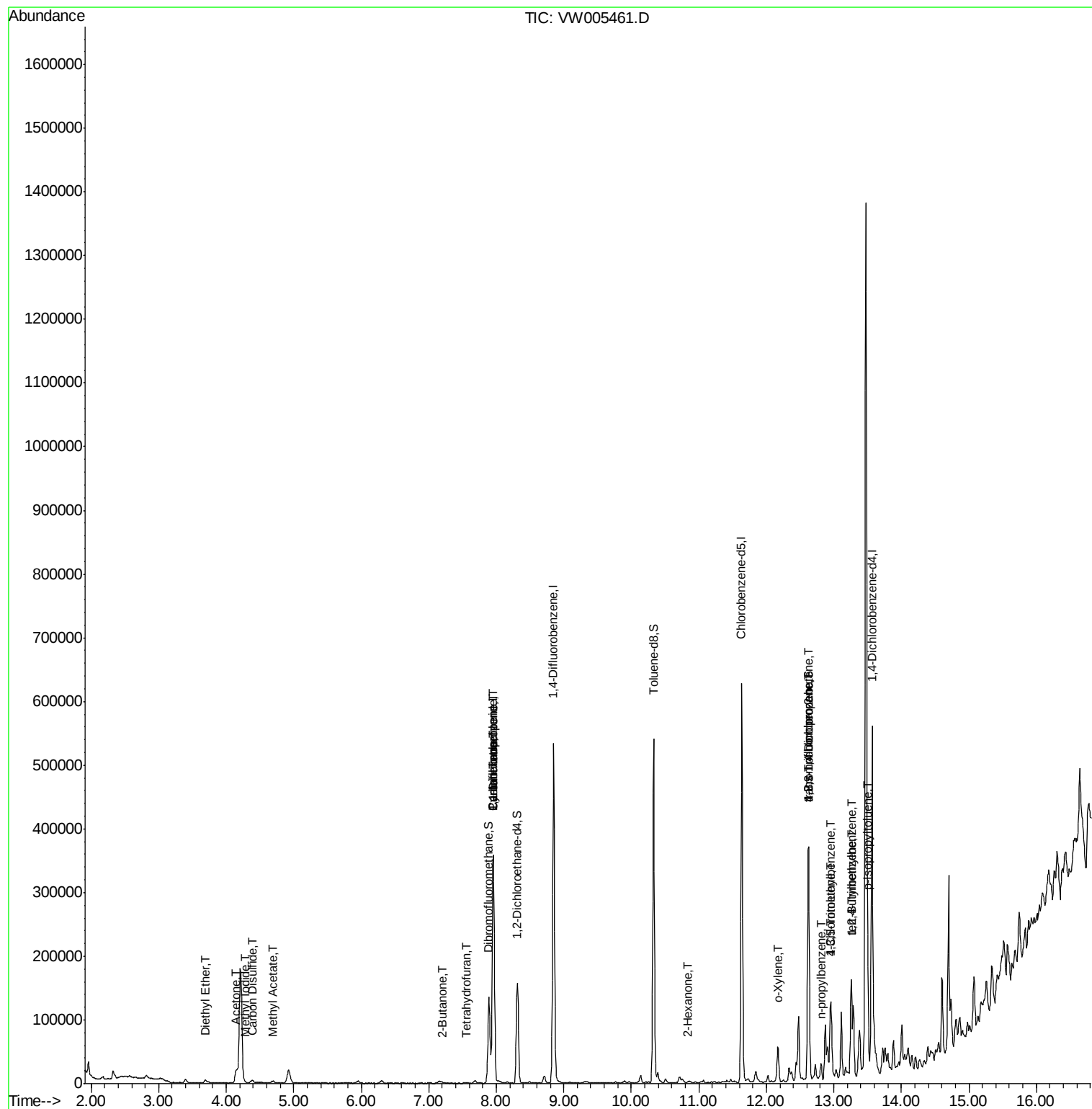
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	368	Below Cal		98
5) Bromomethane	2.78	94	564	Below Cal		94
8) Diethyl Ether	3.70	74	2251	1.919	ug/l	76
10) Methyl Iodide	4.28	142	329	4.154	ug/l #	38
11) Tert butyl alcohol	5.20	59	145	Below Cal	#	71
16) Acetone	4.15	43	44540	99.933	ug/l	98
17) Carbon Disulfide	4.38	76	8451	1.151	ug/l	96
18) Methyl Acetate	4.70	43	5840	4.346	ug/l #	81
20) Methylene Chloride	4.93	84	14610	Below Cal		94
25) 2-Butanone	7.20	43	3307	4.916	ug/l	91
29) Tetrahydrofuran	7.56	42	832	1.941	ug/l #	54
31) Cyclohexane	7.96	56	6292	1.410	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	21856	5.258	ug/l #	51
38) Carbon Tetrachloride	7.96	117	26813	6.190	ug/l #	17
59) 2-Hexanone	10.83	43	1892	1.636	ug/l	64
69) o-Xylene	12.17	106	13549	2.880	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	62903	55.701	ug/l #	100
78) n-propylbenzene	12.81	91	18591	1.599	ug/l	97
80) 1,3,5-Trimethylbenzene	12.95	105	34473	4.101	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	62903	144.491	ug/l #	8
82) 4-Chlorotoluene	12.96	91	9617	1.328	ug/l #	42
83) tert-Butylbenzene	13.26	119	11167	1.600	ug/l #	38
84) 1,2,4-Trimethylbenzene	13.26	105	84522	9.905	ug/l	99
86) p-Isopropyltoluene	13.51	119	96626	10.711	ug/l #	75

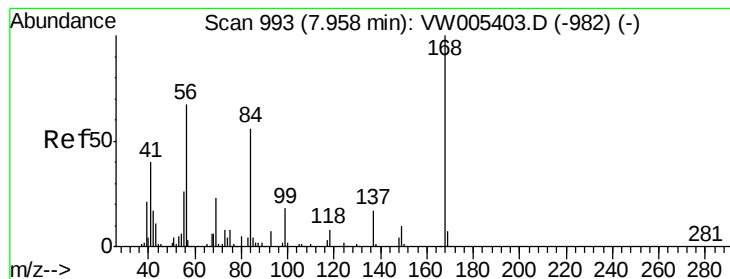
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
Data File : VW005461.D
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Quant Time: Sep 18 06:05:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
Quant Title : SW846 8260
QLast Update : Sat Sep 15 02:32:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampleId :

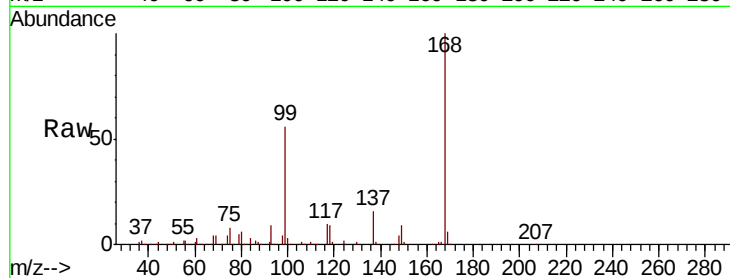
RB12983RT

Tgt Ion:168 Resp: 269423

Ion Ratio Lower Upper

168 100

99 56.1 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

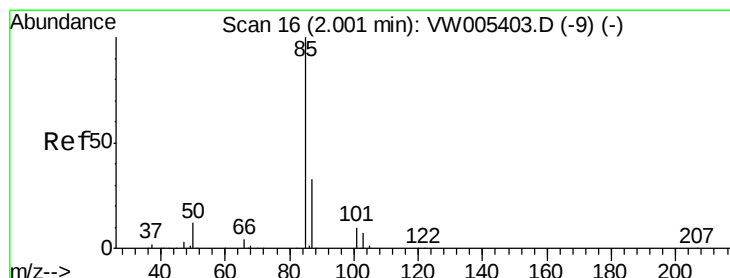
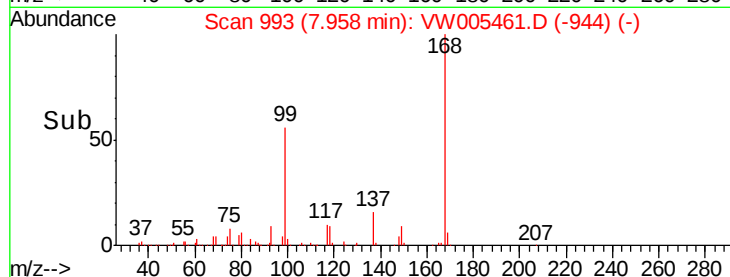
7.96

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005461.D

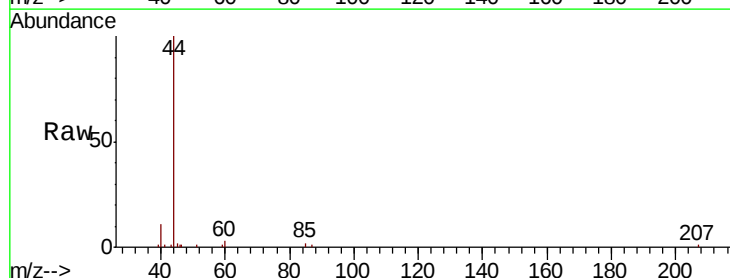
Acq: 18 Sep 2018 05:26

Tgt Ion: 85 Resp: 368

Ion Ratio Lower Upper

85 100

87 31.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

250

200

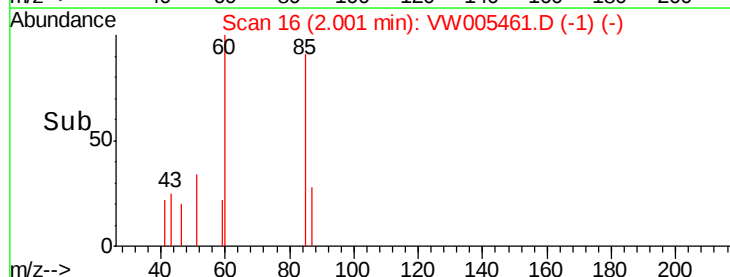
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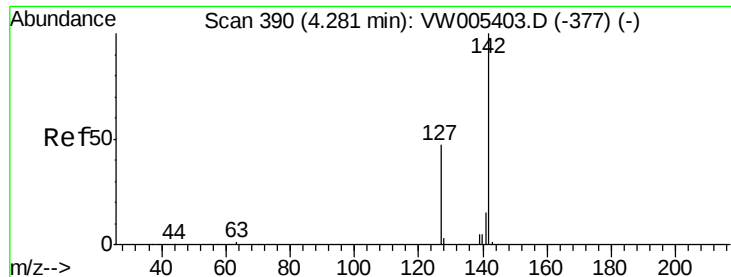
100

50

0

Time-->

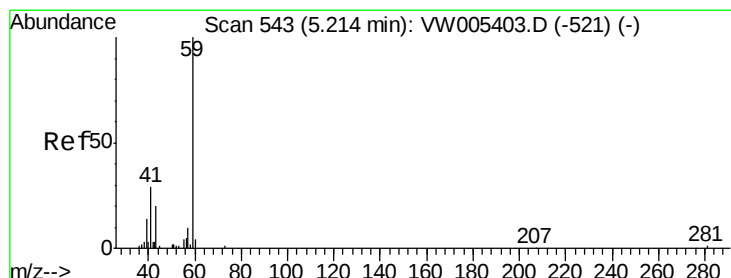
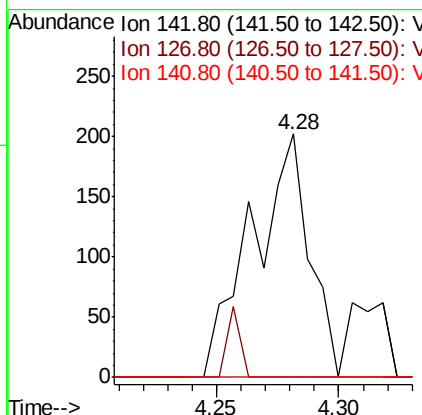
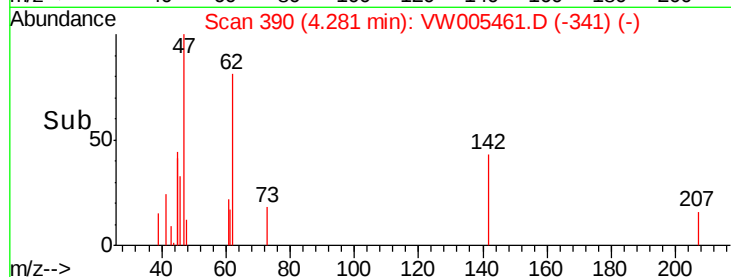
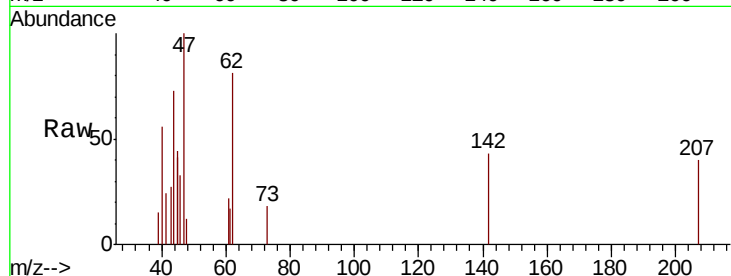




#10
Methyl Iodide
Concen: 4.154 ug/l
RT: 4.28 min Scan# 390
Delta R.T. 0.00 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

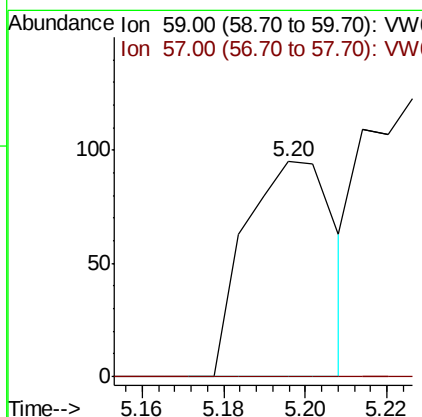
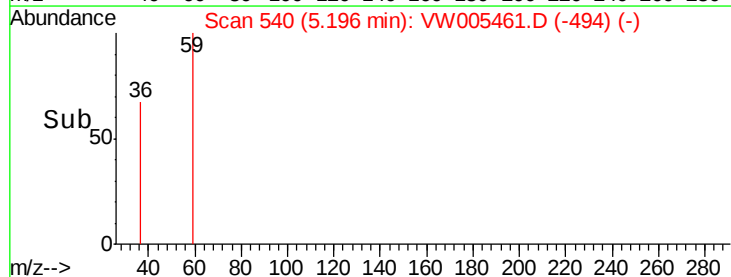
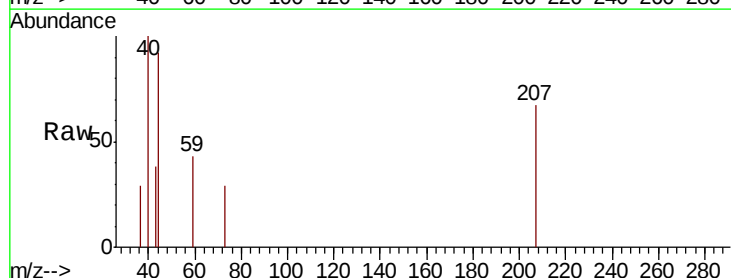
Instrument :
MSVOA_W
ClientSampled :
RB12983RT

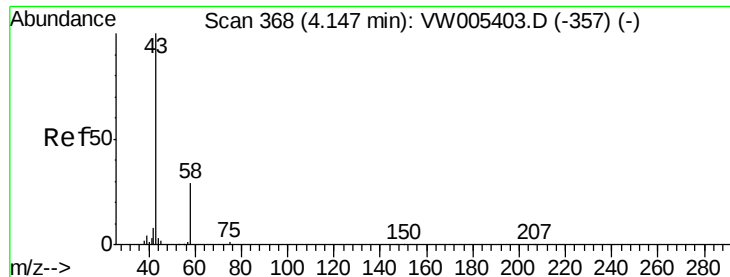
Tgt Ion: 142 Resp: 329
Ion Ratio Lower Upper
142 100
127 0.0 37.5 56.3#
141 0.0 12.4 18.6#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 540
Delta R.T. -0.02 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

Tgt Ion: 59 Resp: 145
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#16

Acetone

Concen: 99.933 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampleId :

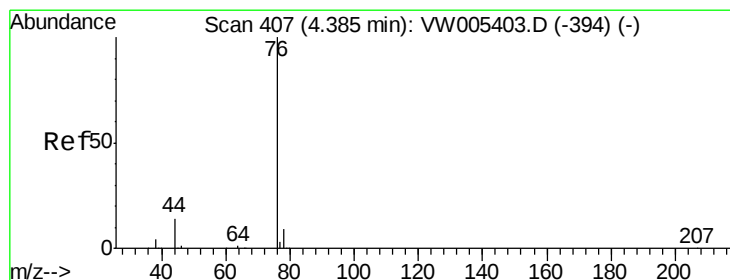
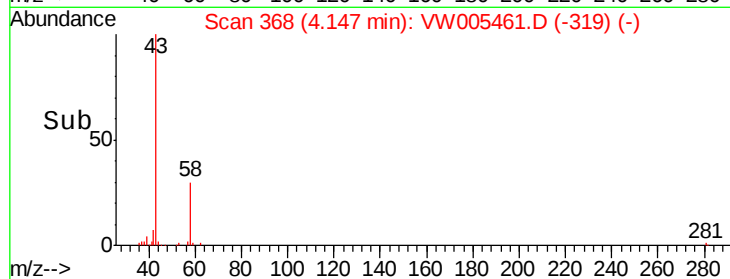
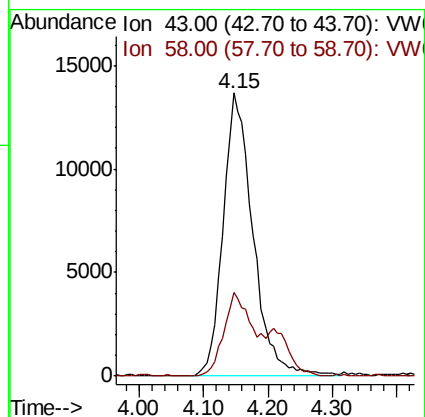
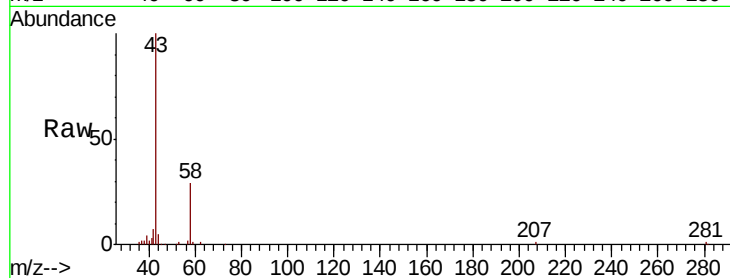
RB12983RT

Tgt Ion: 43 Resp: 44540

Ion Ratio Lower Upper

43 100

58 29.4 22.8 34.2



#17

Carbon Disulfide

Concen: 1.151 ug/l

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW005461.D

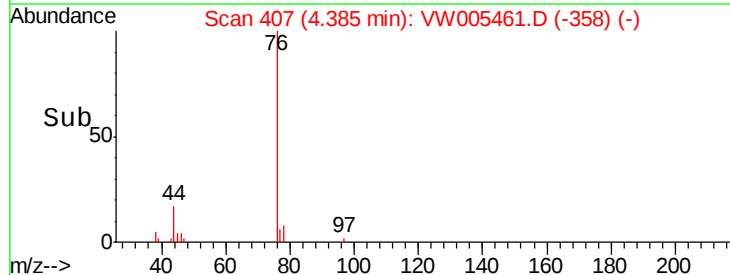
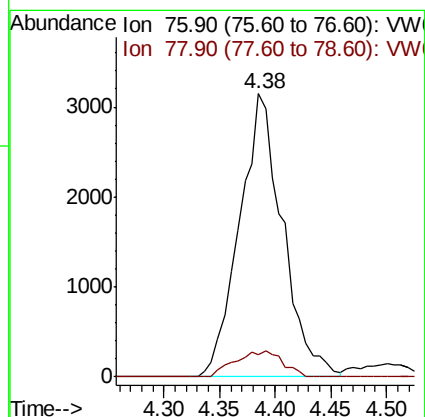
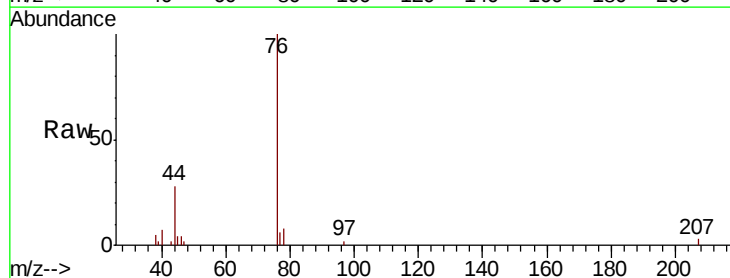
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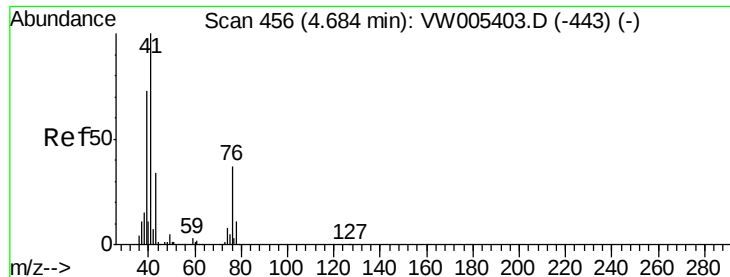
Tgt Ion: 76 Resp: 8451

Ion Ratio Lower Upper

76 100

78 7.7 7.4 11.0

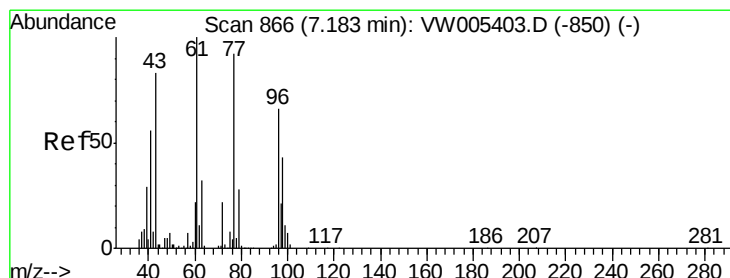
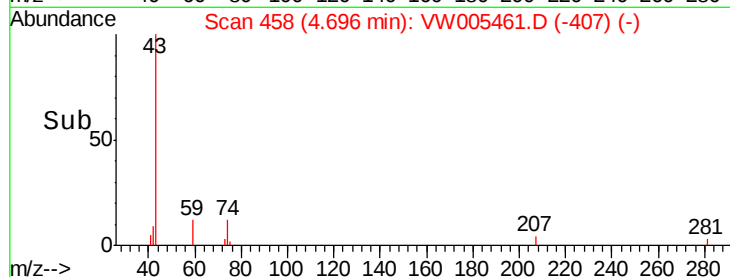
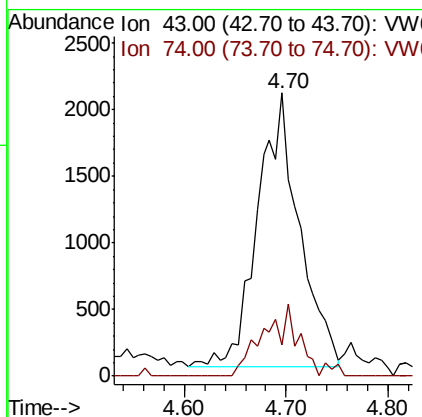
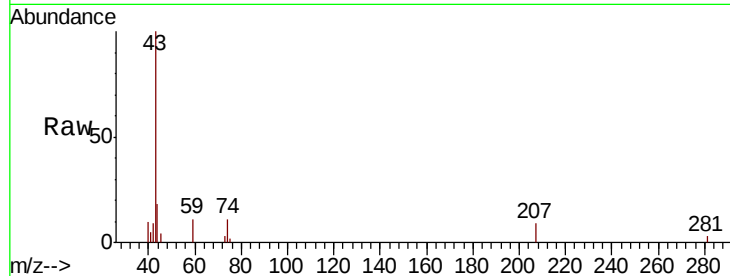




#18
Methyl Acetate
Concen: 4.346 ug/l
RT: 4.70 min Scan# 458
Delta R.T. 0.01 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

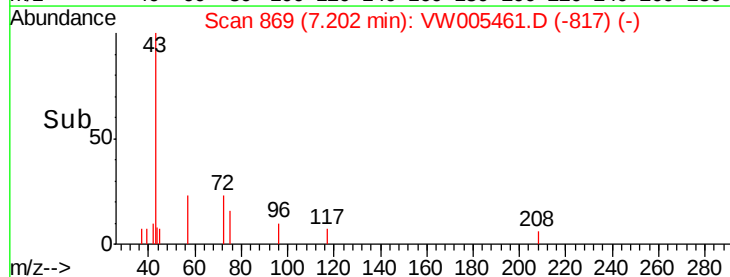
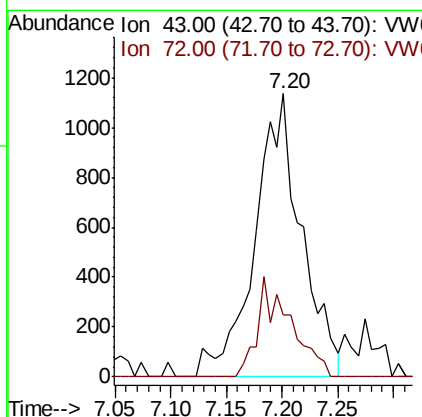
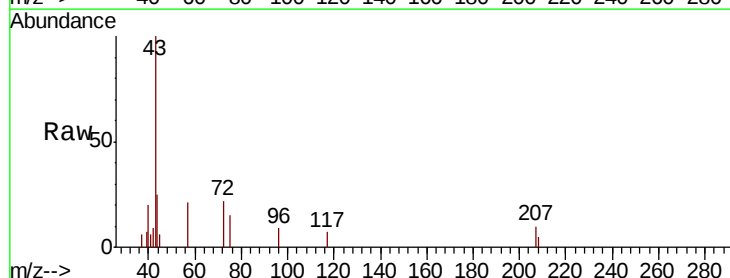
Instrument :
MSVOA_W
ClientSampleId :
RB12983RT

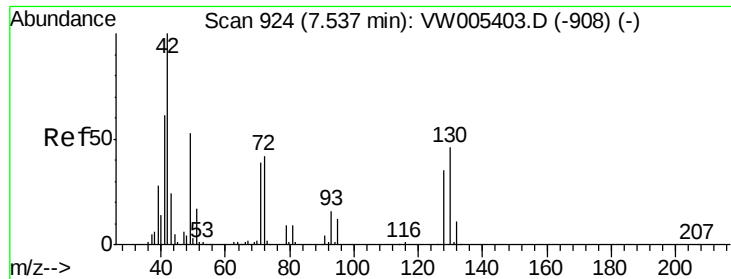
Tgt Ion: 43 Resp: 5840
Ion Ratio Lower Upper
43 100
74 13.1 17.7 26.5#



#25
2-Butanone
Concen: 4.916 ug/l
RT: 7.20 min Scan# 869
Delta R.T. 0.02 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

Tgt Ion: 43 Resp: 3307
Ion Ratio Lower Upper
43 100
72 21.8 21.1 31.7

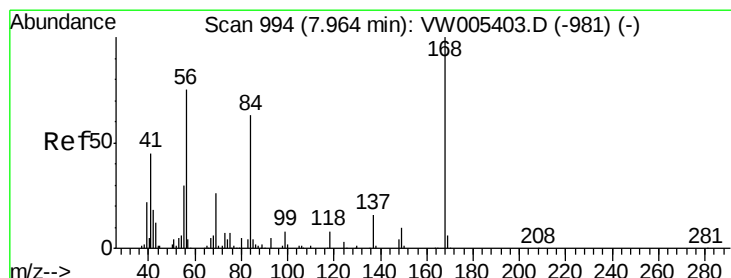
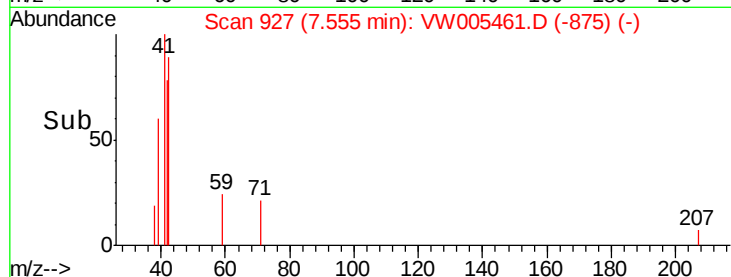
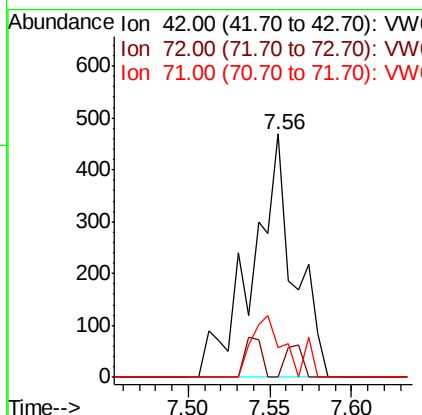
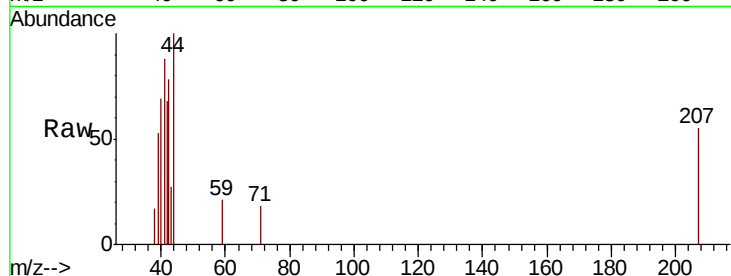




#29
Tetrahydrofuran
Concen: 1.941 ug/l
RT: 7.56 min Scan# 927
Delta R.T. 0.02 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

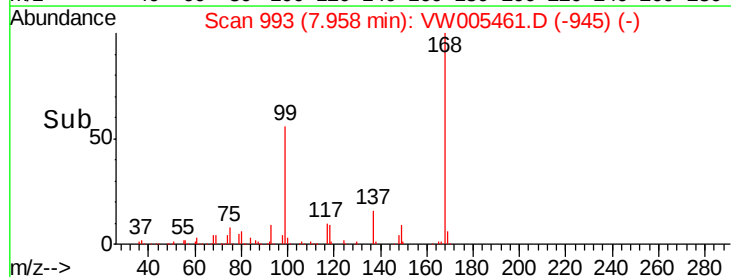
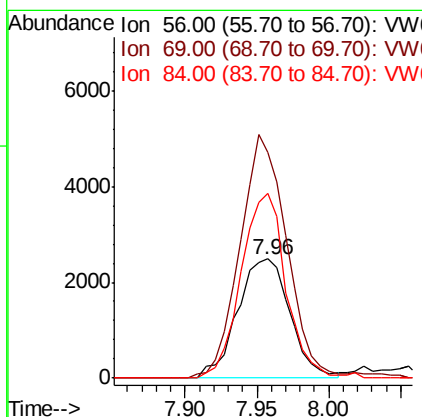
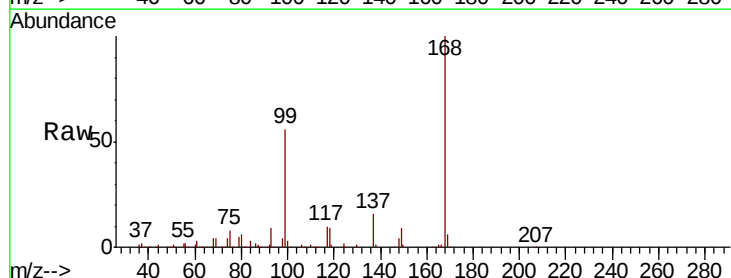
Instrument :
MSVOA_W
ClientSampleId :
RB12983RT

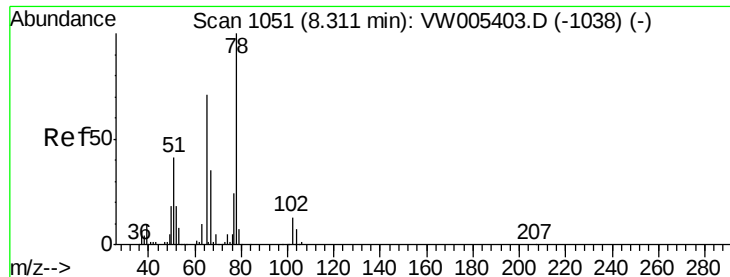
Tgt Ion: 42 Resp: 832
Ion Ratio Lower Upper
42 100
72 5.3 33.2 49.8#
71 17.9 31.0 46.6#



#31
Cyclohexane
Concen: 1.410 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

Tgt Ion: 56 Resp: 6292
Ion Ratio Lower Upper
56 100
69 189.8 27.2 40.8#
84 155.5 66.7 100.1#

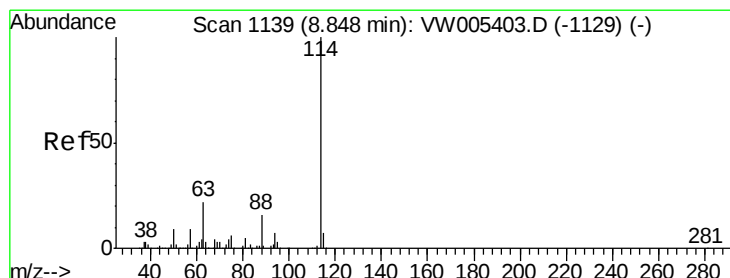
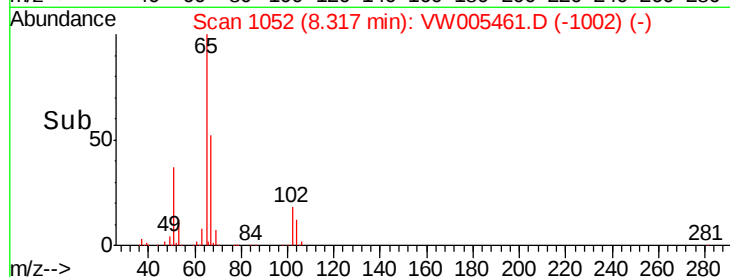
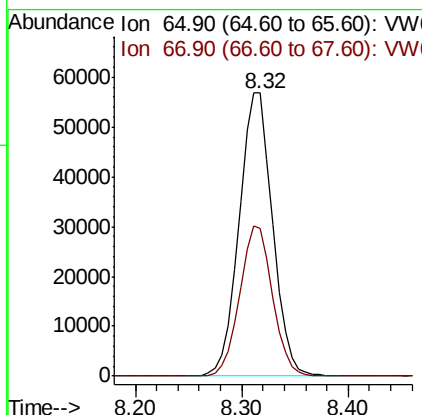
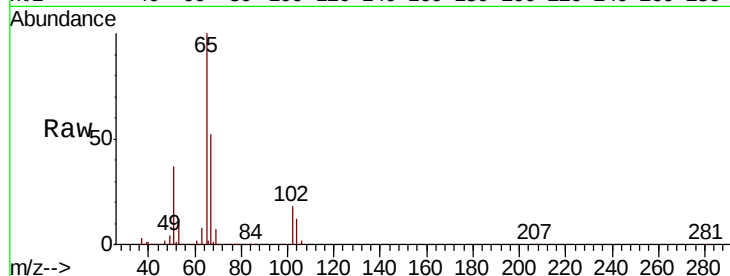




#33
 1,2-Dichloroethane-d4
 Concen: 44.789 ug/l
 RT: 8.32 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VW005461.D
 Acq: 18 Sep 2018 05:26

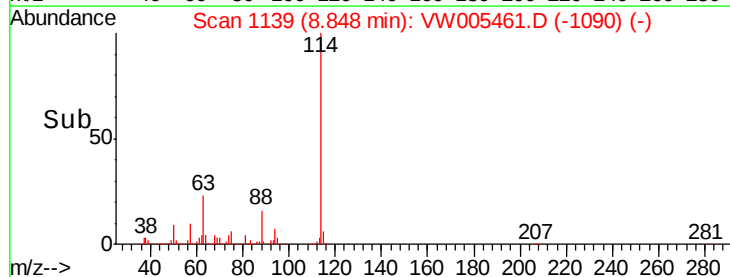
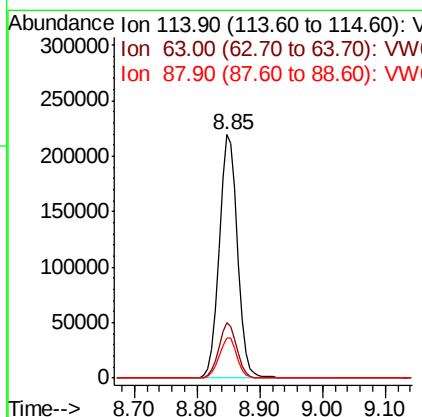
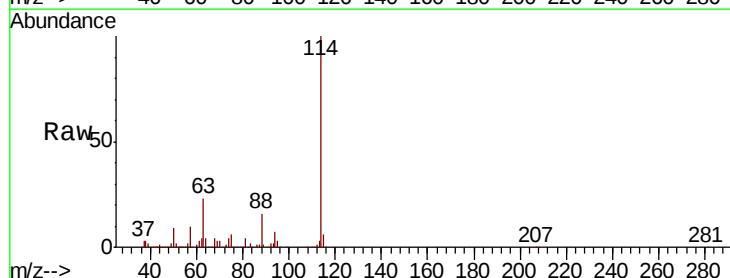
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 RB12983RT

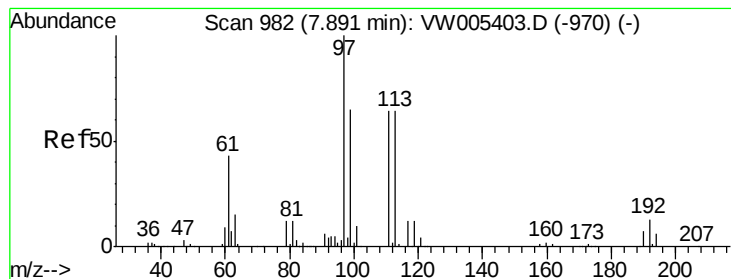
Tgt Ion: 65 Resp: 125257
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW005461.D
 Acq: 18 Sep 2018 05:26

Tgt Ion: 114 Resp: 439220
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 43.4
 88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 38.711 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampled :

RB12983RT

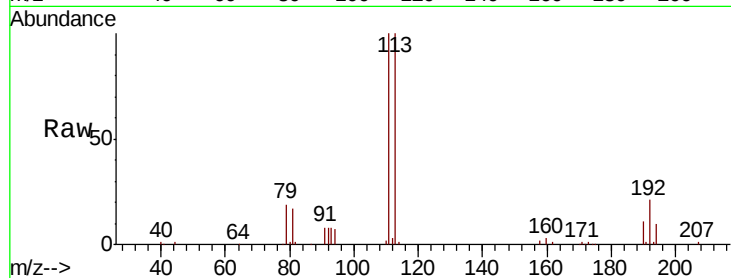
Tgt Ion:113 Resp: 95332

Ion Ratio Lower Upper

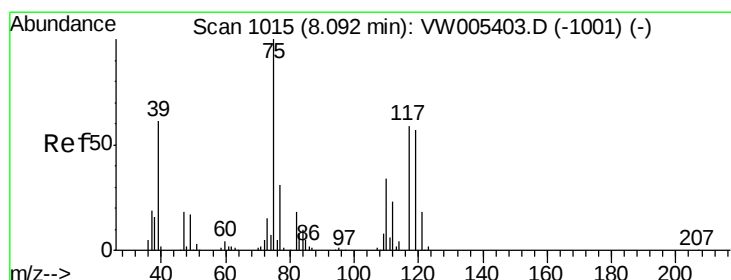
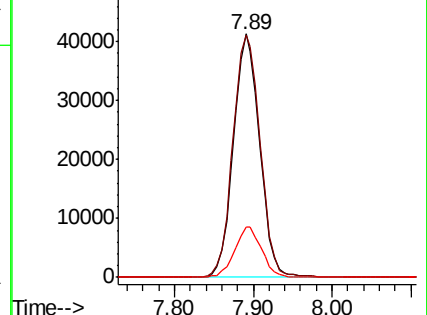
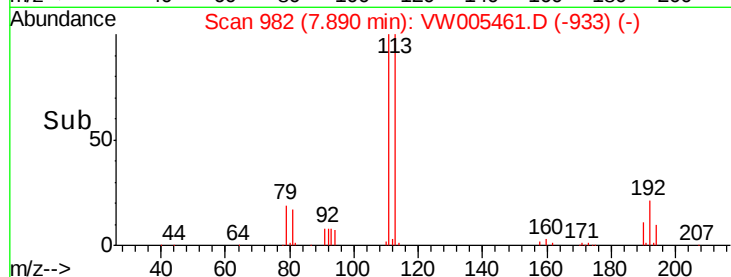
113 100

111 103.2 82.3 123.5

192 20.9 16.5 24.7



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: 5.258 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.14 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

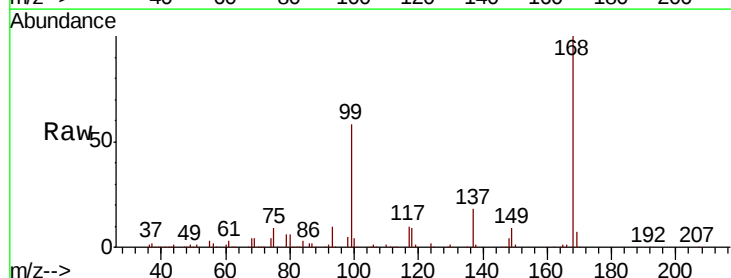
Tgt Ion: 75 Resp: 21856

Ion Ratio Lower Upper

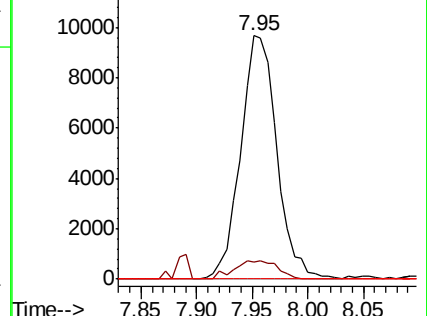
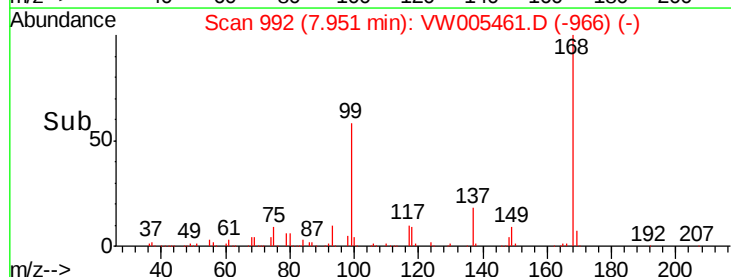
75 100

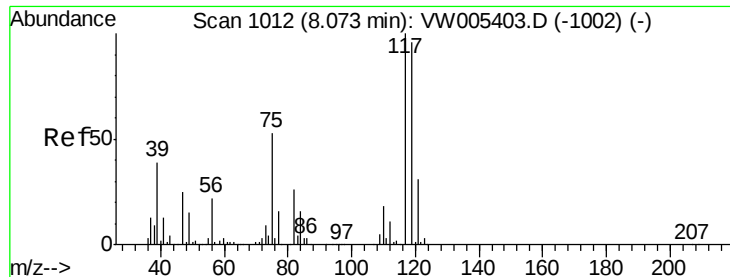
110 9.1 16.8 50.4#

77 0.0 24.2 36.4#



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: 6.190 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampleId :

RB12983RT

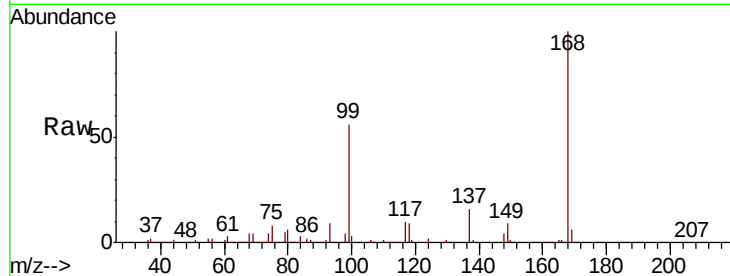
Tgt Ion:117 Resp: 26813

Ion Ratio Lower Upper

117 100

119 6.1 76.8 115.2#

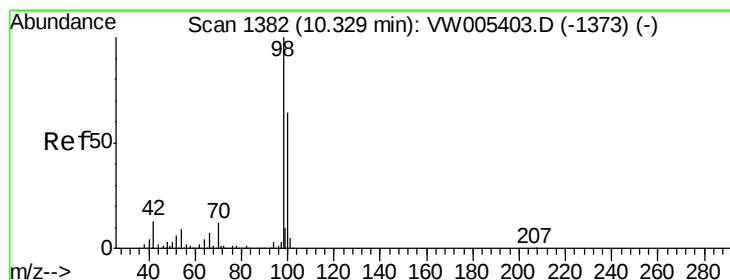
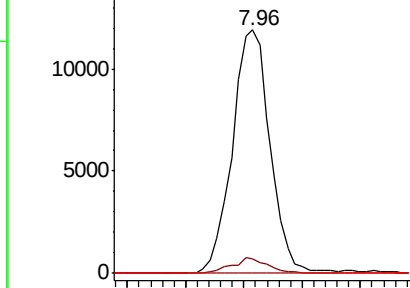
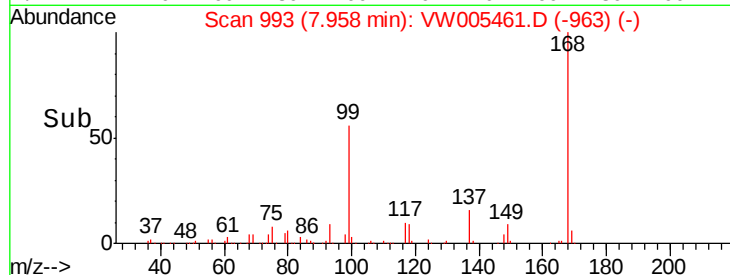
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 31.266 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005461.D

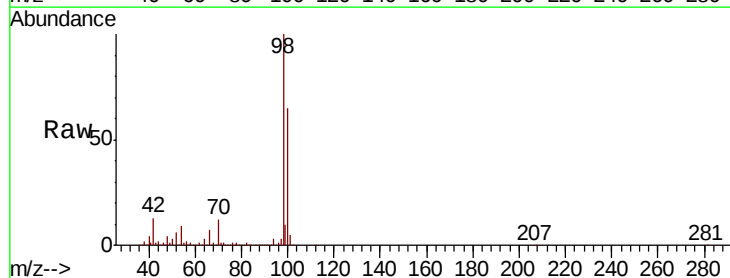
Acq: 18 Sep 2018 05:26

Tgt Ion: 98 Resp: 352609

Ion Ratio Lower Upper

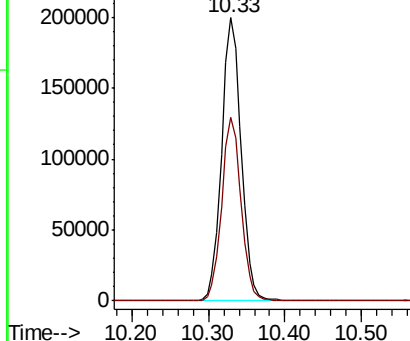
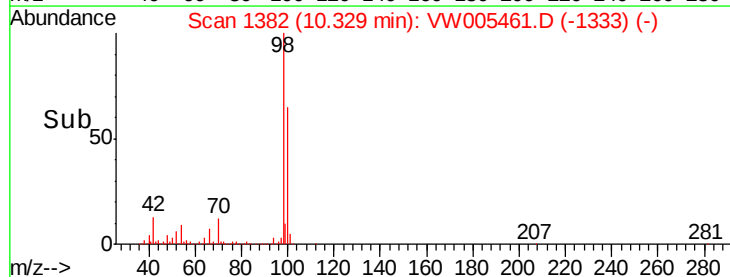
98 100

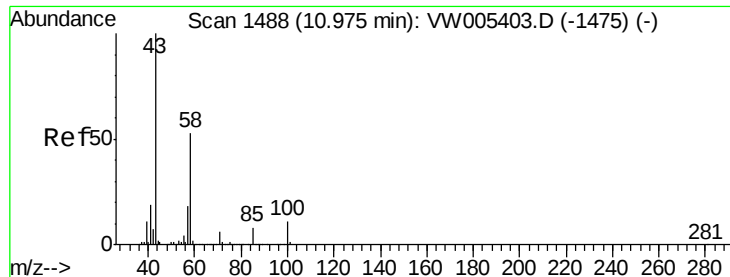
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

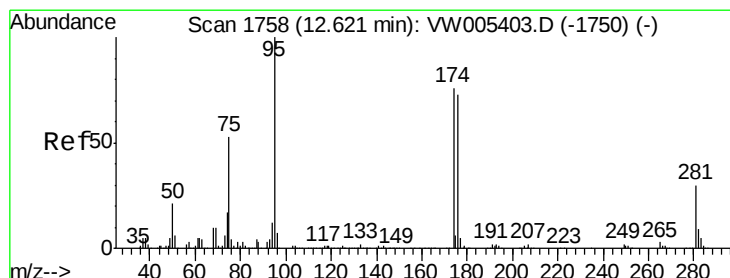
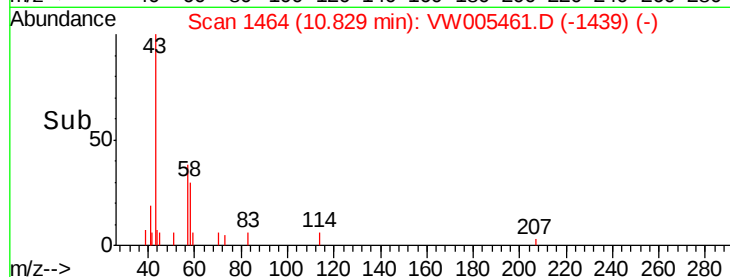
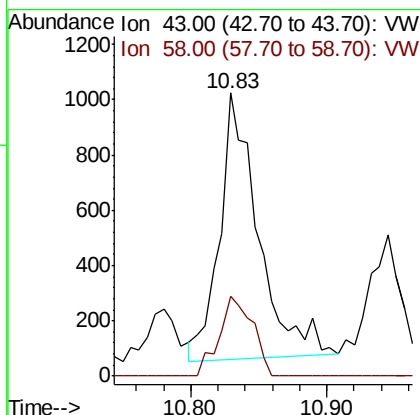
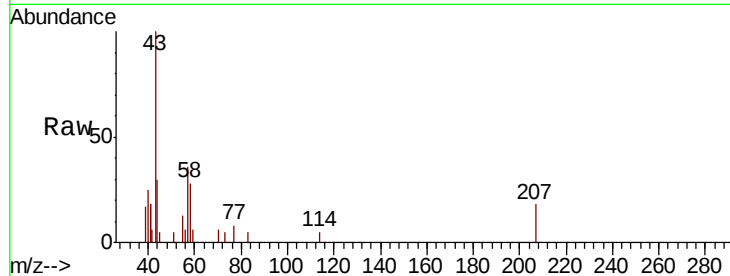




#59
2-Hexanone
Concen: 1.636 ug/l
RT: 10.83 min Scan# 1464
Delta R.T. -0.15 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

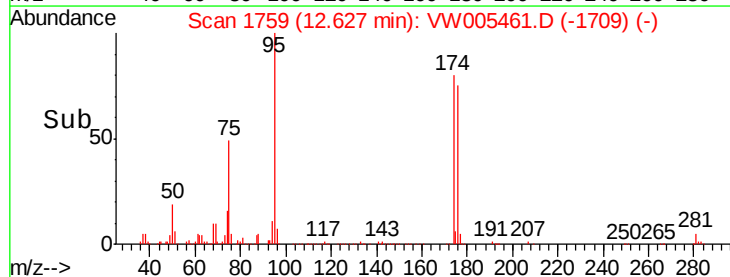
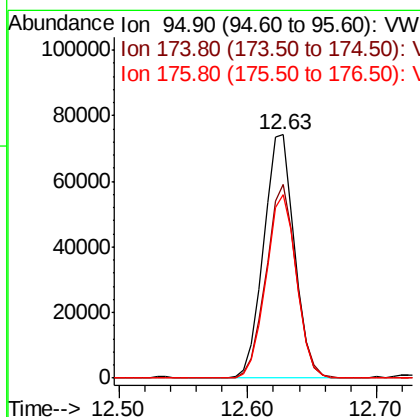
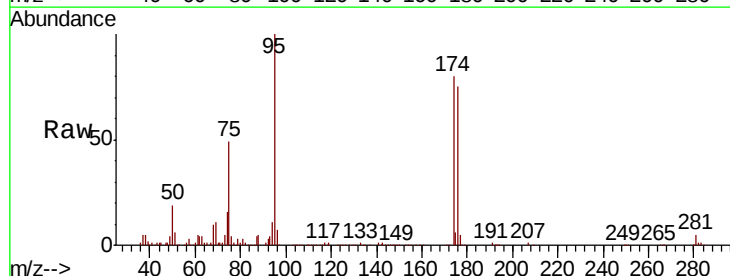
Instrument :
MSVOA_W
ClientSampleId :
RB12983RT

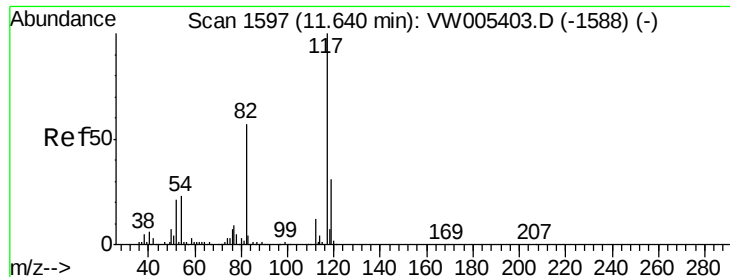
Tgt Ion: 43 Resp: 1892
Ion Ratio Lower Upper
43 100
58 26.0 25.5 76.5



#62
4-Bromofluorobenzene
Concen: 29.537 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

Tgt Ion: 95 Resp: 122141
Ion Ratio Lower Upper
95 100
174 78.6 0.0 161.2
176 75.6 0.0 156.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampleId :

RB12983RT

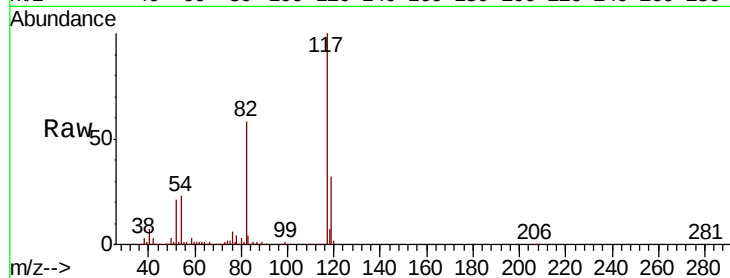
Tgt Ion:117 Resp: 351692

Ion Ratio Lower Upper

117 100

82 57.6 45.9 68.9

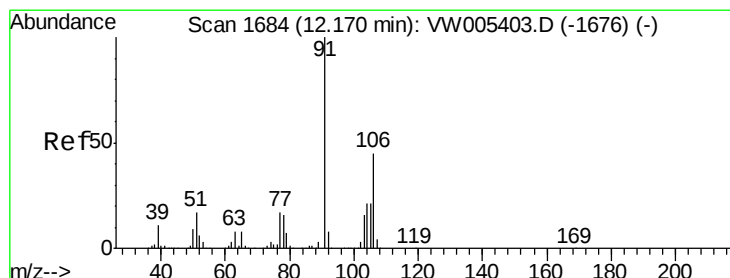
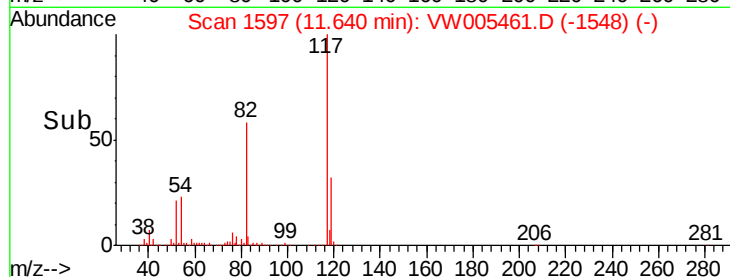
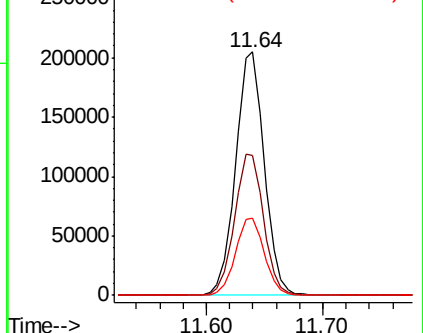
119 31.5 24.8 37.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#69

o-Xylene

Concen: 2.880 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW005461.D

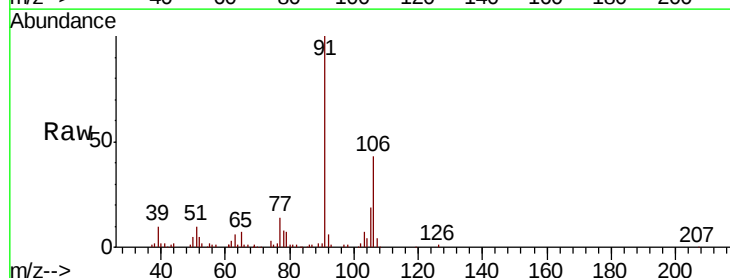
Acq: 18 Sep 2018 05:26

Tgt Ion:106 Resp: 13549

Ion Ratio Lower Upper

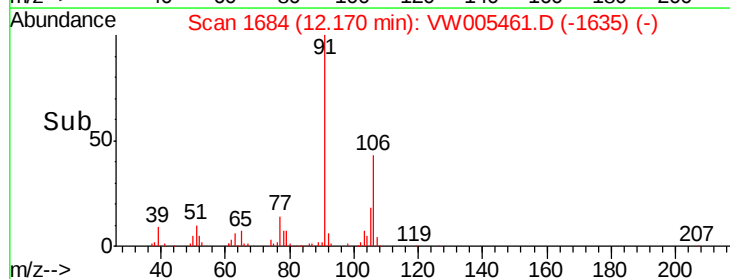
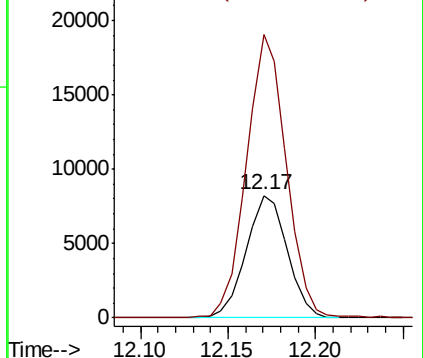
106 100

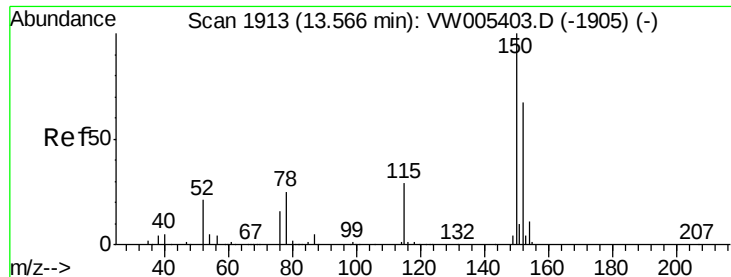
91 224.8 110.6 331.6



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: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampleId :

RB12983RT

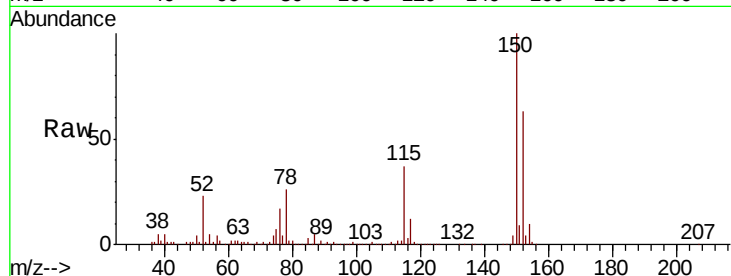
Tgt Ion:152 Resp: 137305

Ion Ratio Lower Upper

152 100

115 60.6 29.5 88.5

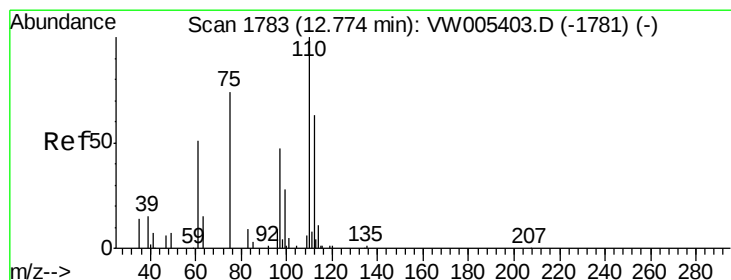
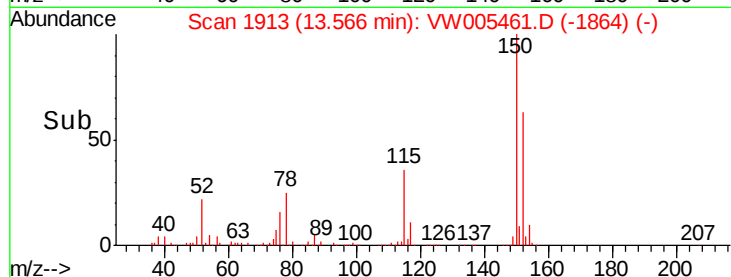
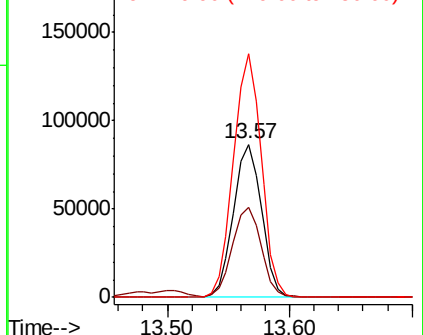
150 158.1 0.0 345.6



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: 55.701 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005461.D

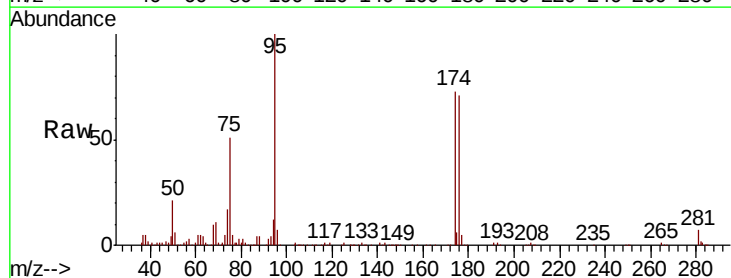
Acq: 18 Sep 2018 05:26

Tgt Ion: 75 Resp: 62903

Ion Ratio Lower Upper

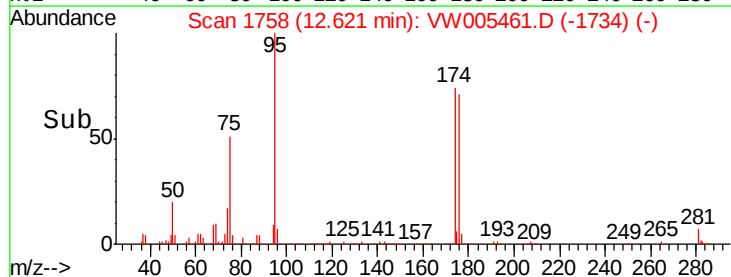
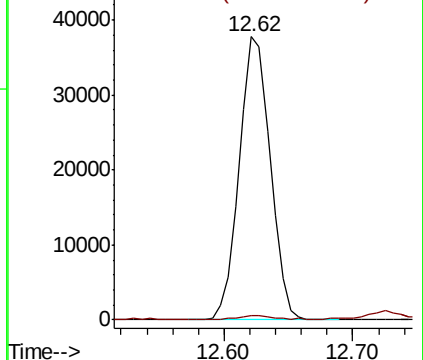
75 100

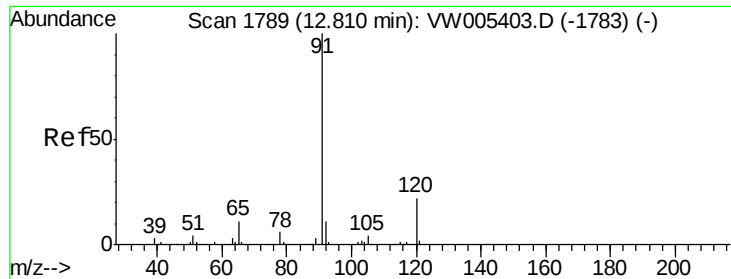
77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

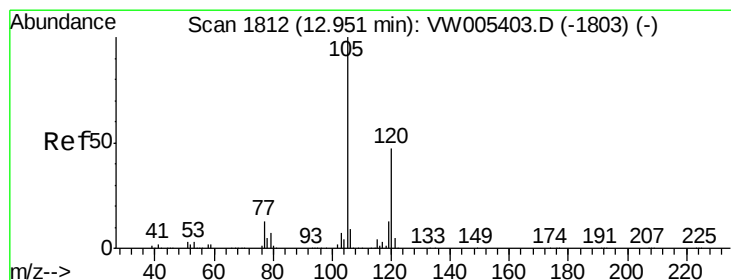
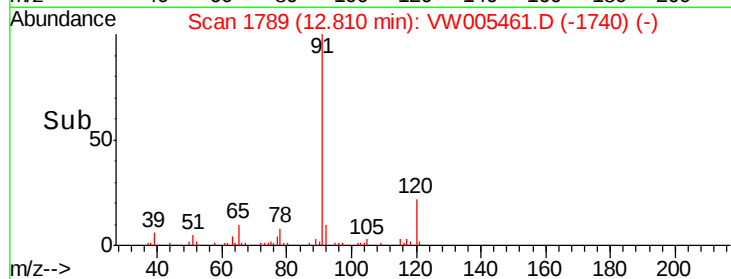
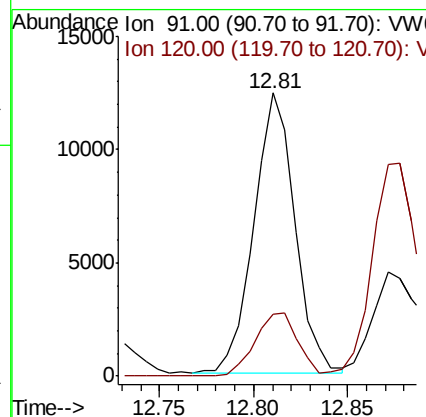
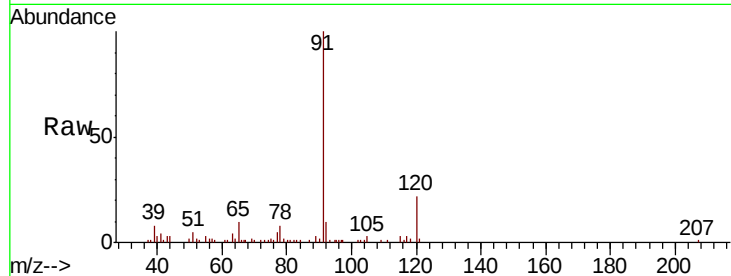




#78
n-propylbenzene
Concen: 1.599 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

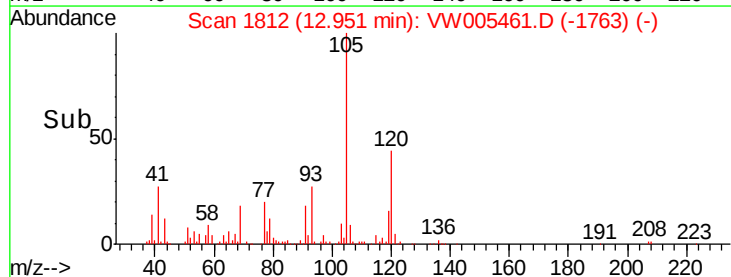
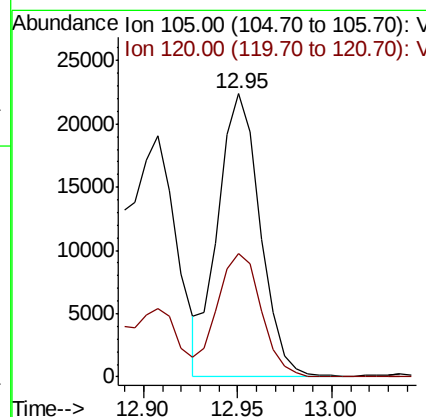
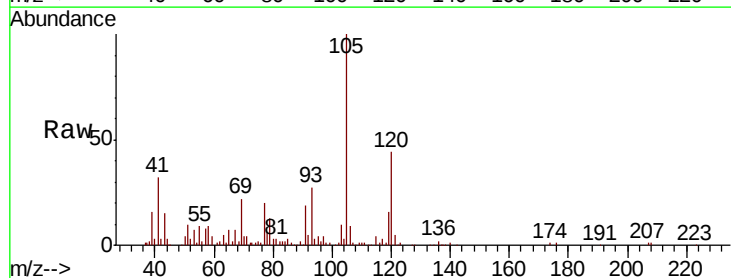
Instrument :
MSVOA_W
ClientSampleId :
RB12983RT

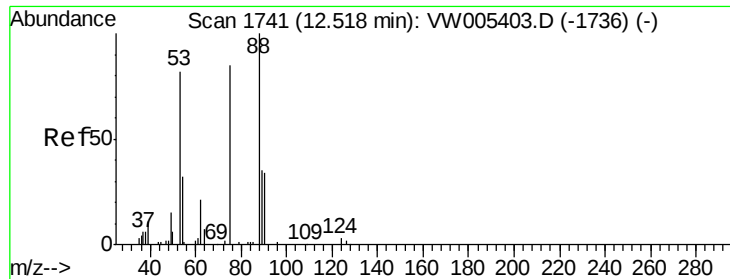
Tgt Ion: 91 Resp: 18591
Ion Ratio Lower Upper
91 100
120 23.9 11.3 33.8



#80
1,3,5-Trimethylbenzene
Concen: 4.101 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. -0.00 min
Lab File: VW005461.D
Acq: 18 Sep 2018 05:26

Tgt Ion: 105 Resp: 34473
Ion Ratio Lower Upper
105 100
120 45.8 23.5 70.5





#81

trans-1,4-Dichloro-2-butene

Concen: 144.491 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005461.D

Acq: 18 Sep 2018 05:26

Instrument :

MSVOA_W

ClientSampleId :

RB12983RT

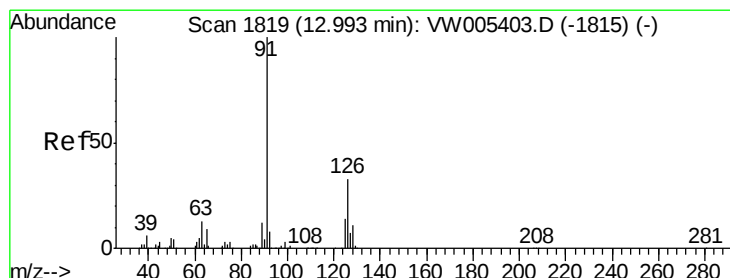
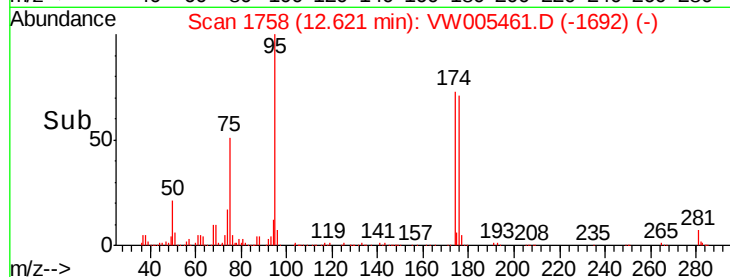
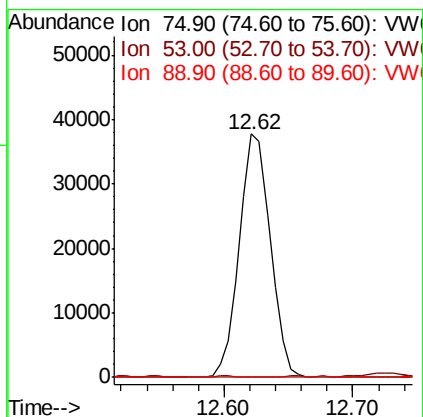
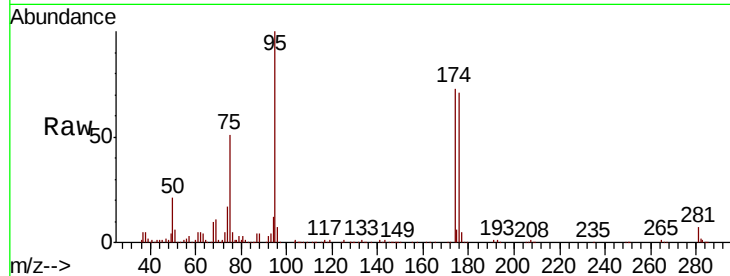
Tgt Ion: 75 Resp: 62903

Ion Ratio Lower Upper

75 100

53 0.2 83.2 124.8#

89 0.1 36.6 54.8#



#82

4-Chlorotoluene

Concen: 1.328 ug/l

RT: 12.96 min Scan# 1813

Delta R.T. -0.04 min

Lab File: VW005461.D

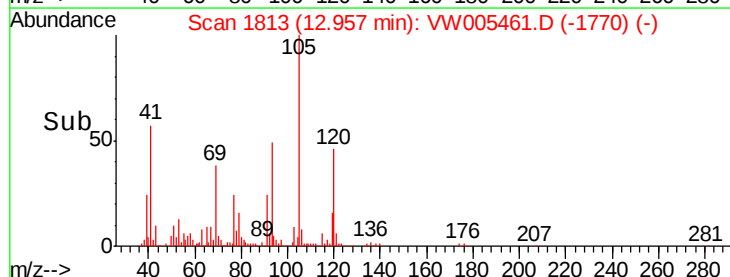
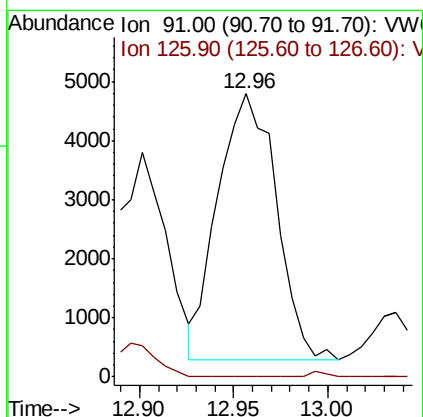
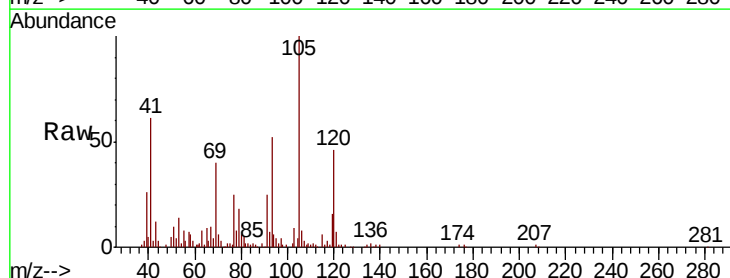
Acq: 18 Sep 2018 05:26

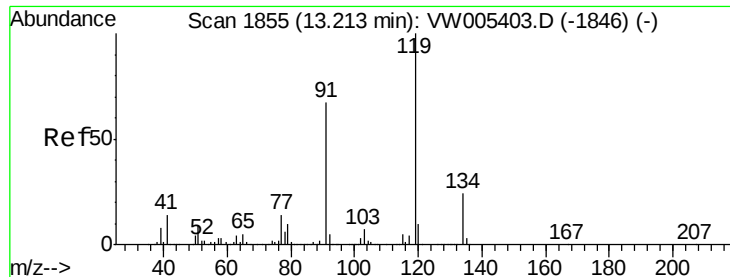
Tgt Ion: 91 Resp: 9617

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#

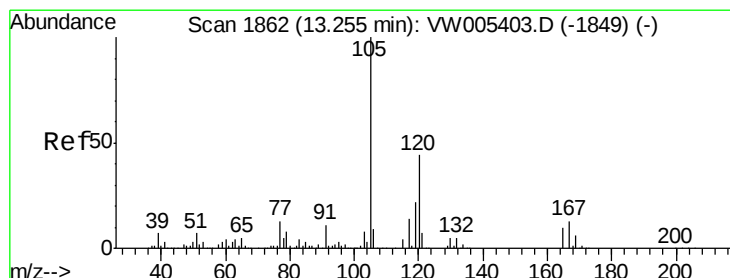
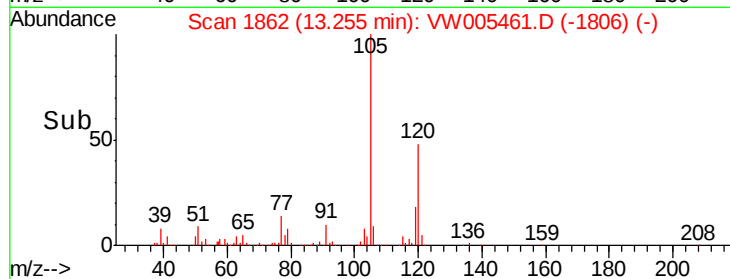
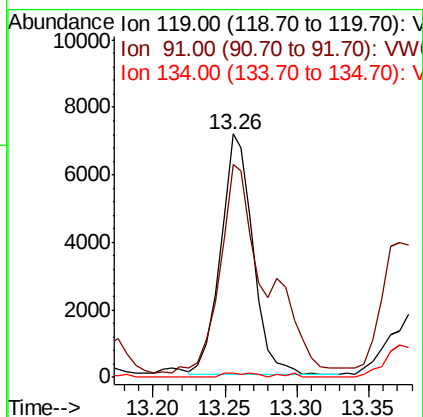
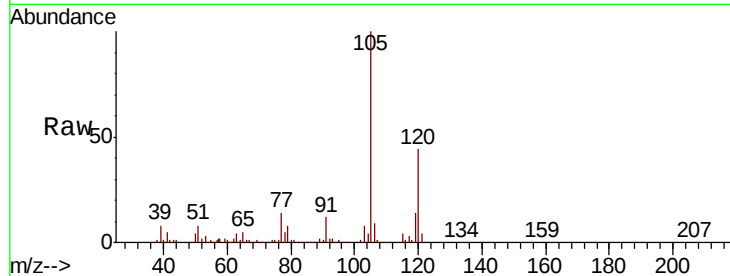




#83
 tert-Butylbenzene
 Concen: 1.600 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.04 min
 Lab File: VW005461.D
 Acq: 18 Sep 2018 05:26

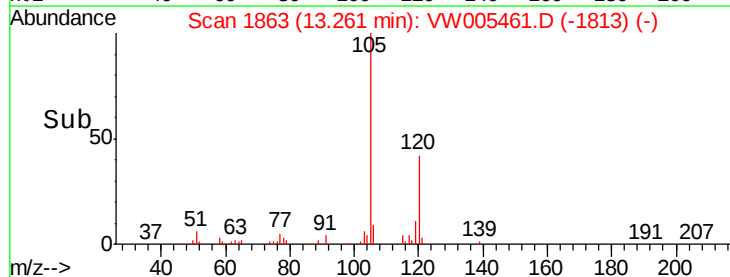
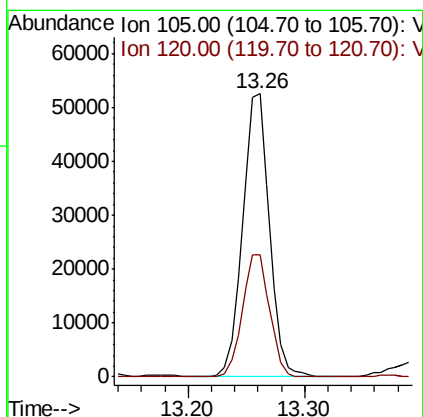
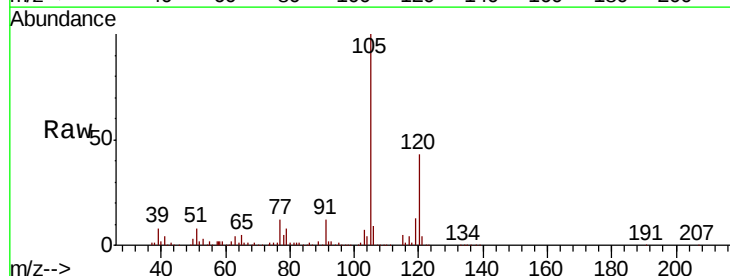
Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RT

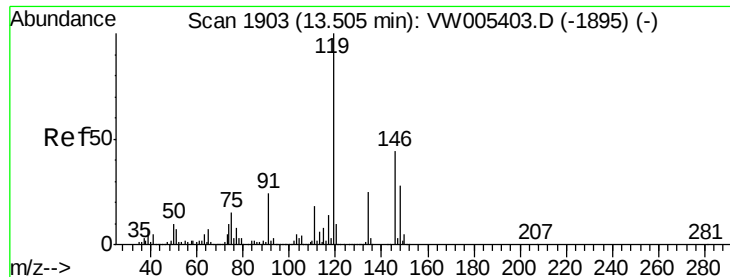
Tgt Ion:119 Resp: 11167
 Ion Ratio Lower Upper
 119 100
 91 122.5 34.4 103.2#
 134 0.0 12.7 38.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 9.905 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VW005461.D
 Acq: 18 Sep 2018 05:26

Tgt Ion:105 Resp: 84522
 Ion Ratio Lower Upper
 105 100
 120 44.1 21.8 65.3

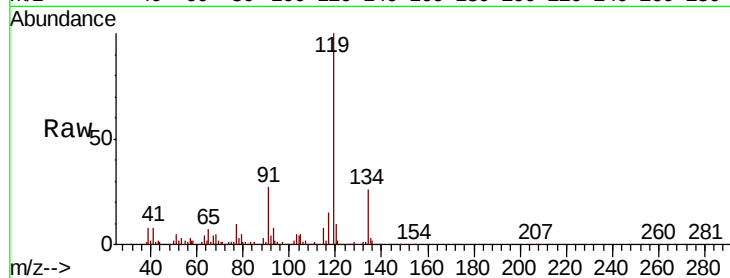




#86
 p-Isopropyltoluene
 Concen: 10.711 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005461.D
 Acq: 18 Sep 2018 05:26

Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RT

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.6	37.8
91	0.0	12.0	36.0



Abundance

Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

