

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091818\
 Data File : VW005488.D
 Acq On : 18 Sep 2018 19:12
 Operator : SY/AP
 Sample : J4946-01RE
 Misc : 5.60G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RTRE

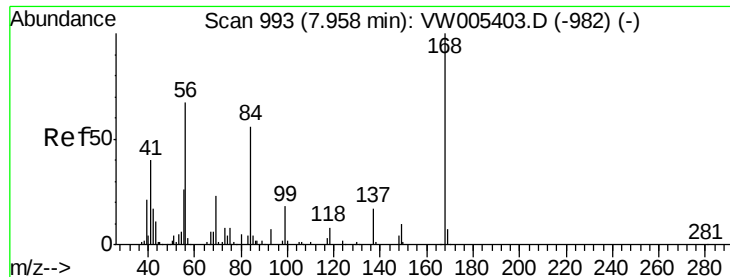
Quant Time: Sep 19 06:00:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	196957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	360385	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	345955	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	149991	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	133006	65.06	ug/l	0.00
Spiked Amount			Recovery	=	130.12%	
35) Dibromofluoromethane	7.89	113	91234	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	
50) Toluene-d8	10.33	98	299267	32.34	ug/l	0.00
Spiked Amount			Recovery	=	64.68%	
62) 4-Bromofluorobenzene	12.62	95	123751	36.47	ug/l	0.00
Spiked Amount			Recovery	=	72.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	466	Below Cal		87
5) Bromomethane	2.78	94	591	Below Cal	#	45
8) Diethyl Ether	3.69	74	2012	2.346	ug/l	51
10) Methyl Iodide	4.28	142	151	4.116	ug/l #	69
11) Tert butyl alcohol	5.19	59	370	Below Cal	#	71
13) Acrolein	3.92	56	23	Below Cal	#	1
16) Acetone	4.15	43	13964	31.768	ug/l	95
17) Carbon Disulfide	4.39	76	6543	1.219	ug/l	100
18) Methyl Acetate	4.68	43	6625	6.744	ug/l	95
20) Methylene Chloride	4.92	84	25139	7.517	ug/l	97
25) 2-Butanone	7.19	43	3676	7.475	ug/l	92
29) Tetrahydrofuran	7.54	42	895	2.857	ug/l #	44
31) Cyclohexane	7.95	56	4610	1.413	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	16070	4.712	ug/l #	50
38) Carbon Tetrachloride	7.96	117	19648	5.528	ug/l #	17
59) 2-Hexanone	10.83	43	1558	1.641	ug/l	71
69) o-Xylene	12.17	106	15308	3.308	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	64066	51.932	ug/l #	100
78) n-propylbenzene	12.81	91	21561	1.698	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	28497	3.104	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	64066	134.716	ug/l #	9
83) tert-Butylbenzene	13.26	119	12034	1.578	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.26	105	93951	10.079	ug/l	100
86) p-Isopropyltoluene	13.51	119	23927	2.428	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

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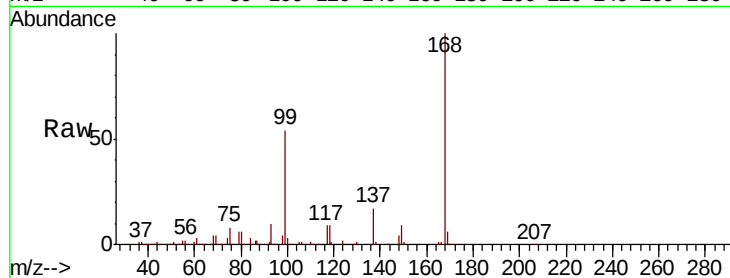
RB12983RTRE

Tgt Ion:168 Resp: 196957

Ion Ratio Lower Upper

168 100

99 54.4 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

80000

60000

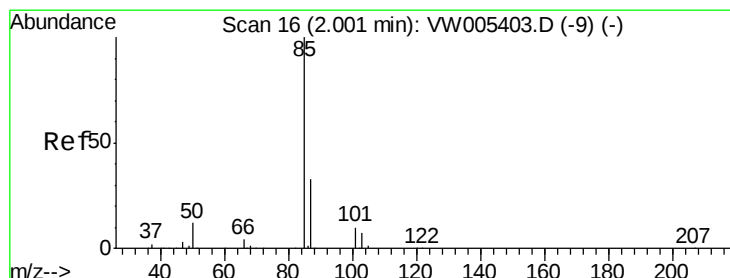
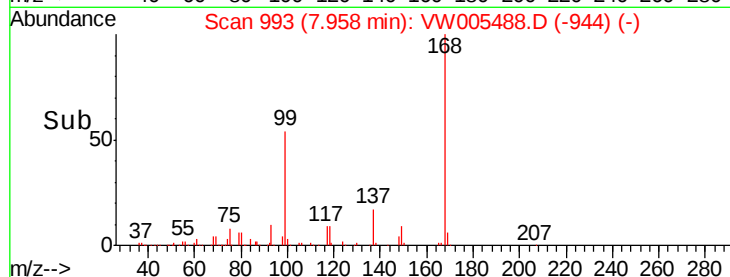
40000

20000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005488.D

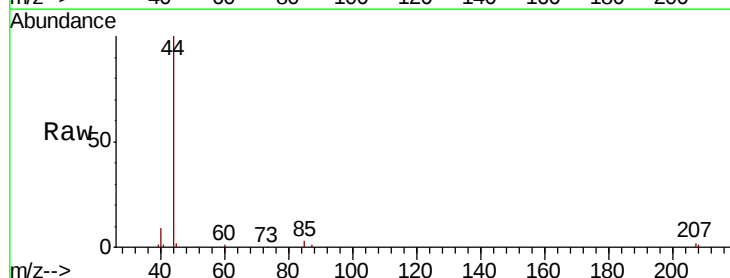
Acq: 18 Sep 2018 19:12

Tgt Ion: 85 Resp: 466

Ion Ratio Lower Upper

85 100

87 25.5 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

400

300

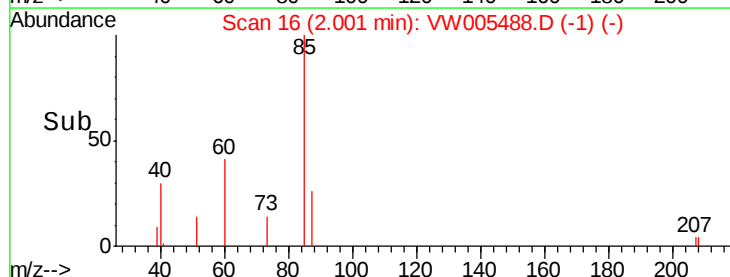
200

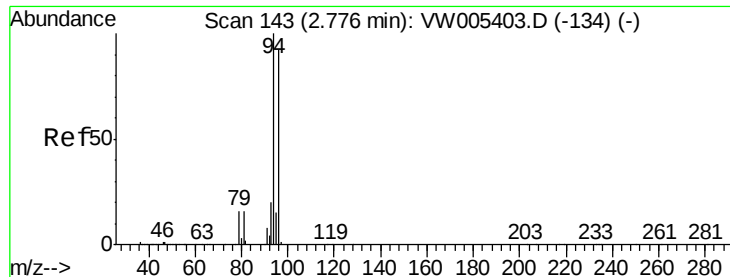
100

0

1.95 2.00 2.05

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

Instrument :

MSVOA_W

ClientSampleId :

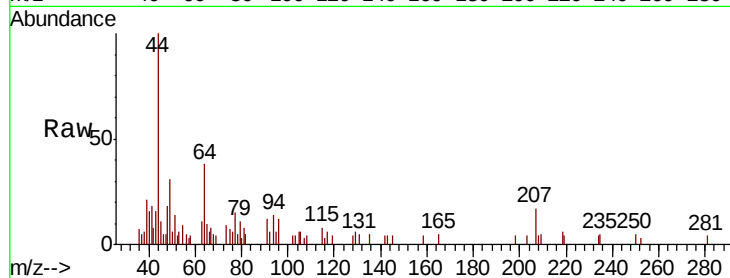
RB12983RTRE

Tgt Ion: 94 Resp: 591

Ion Ratio Lower Upper

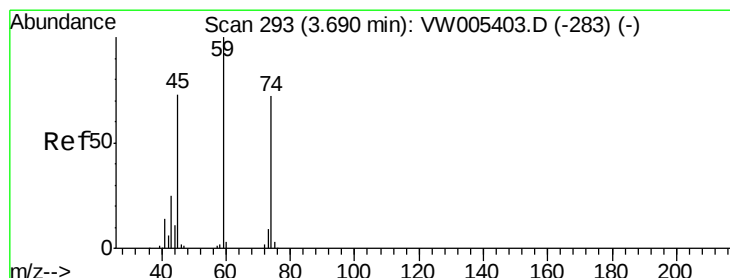
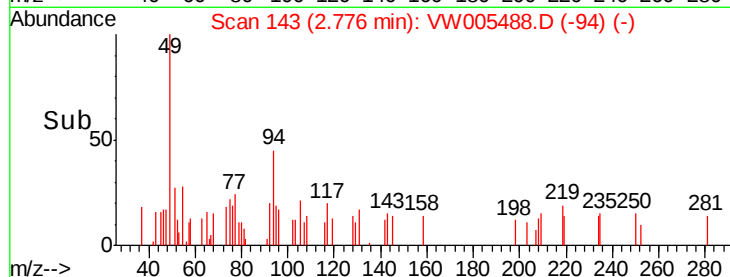
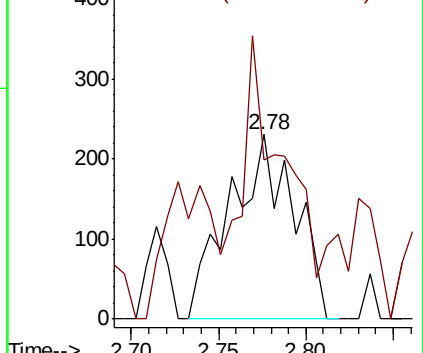
94 100

96 40.0 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 2.346 ug/l

RT: 3.69 min Scan# 293

Delta R.T. -0.00 min

Lab File: VW005488.D

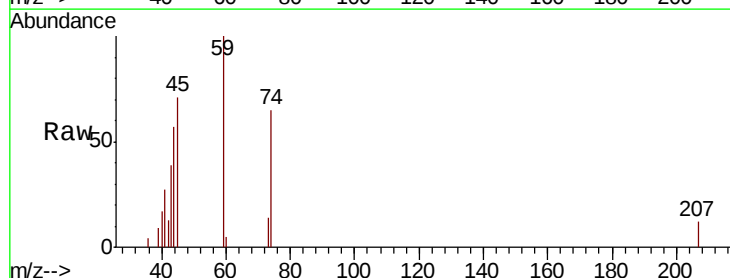
Acq: 18 Sep 2018 19:12

Tgt Ion: 74 Resp: 2012

Ion Ratio Lower Upper

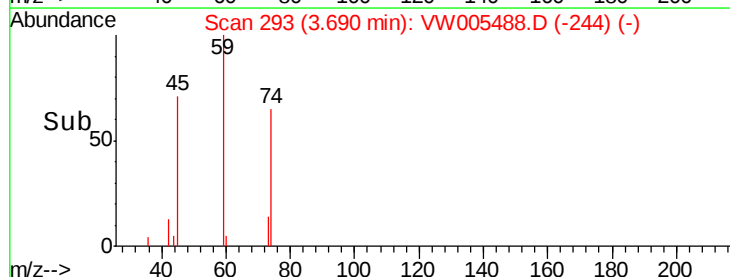
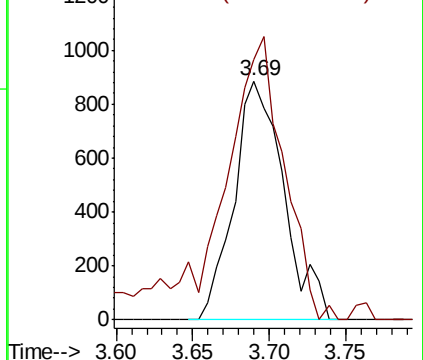
74 100

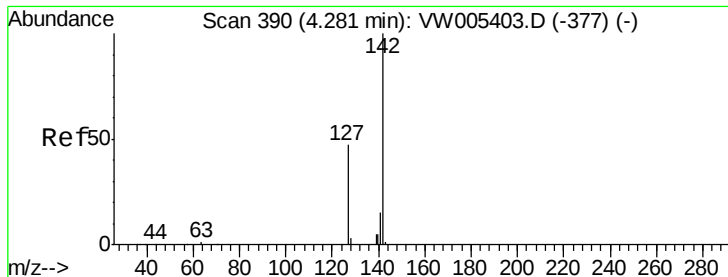
45 157.3 53.1 159.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

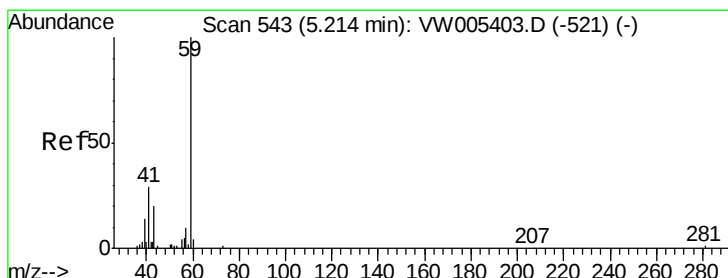
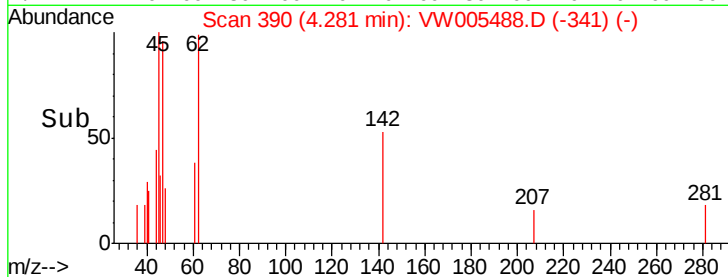
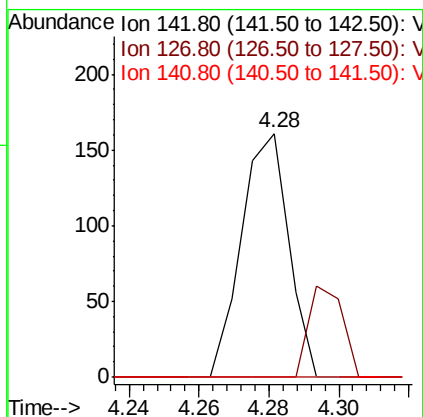
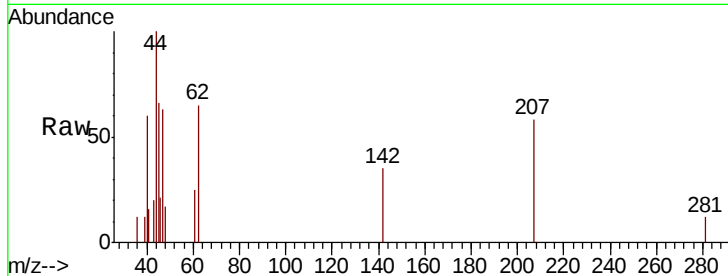




#10
Methyl Iodide
Concen: 4.116 ug/l
RT: 4.28 min Scan# 390
Delta R.T. 0.00 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

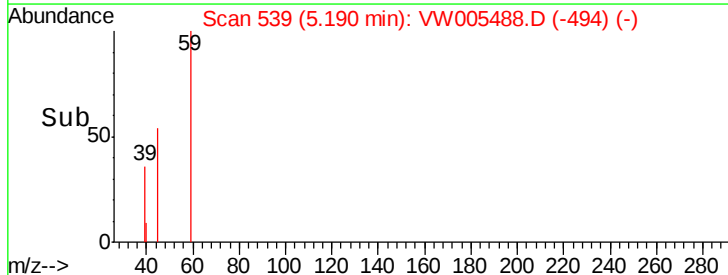
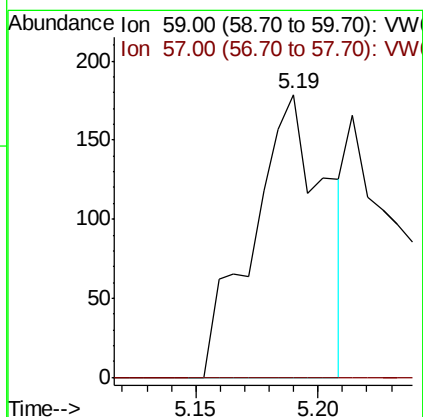
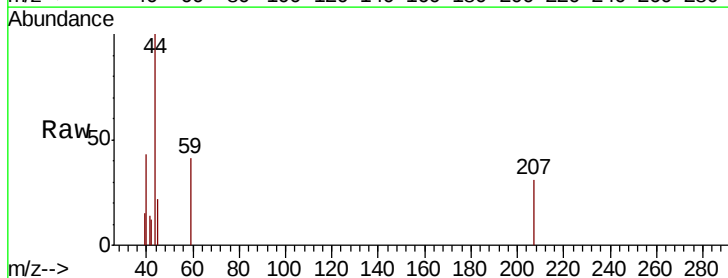
Instrument :
MSVOA_W
ClientSampleId :
RB12983RTRE

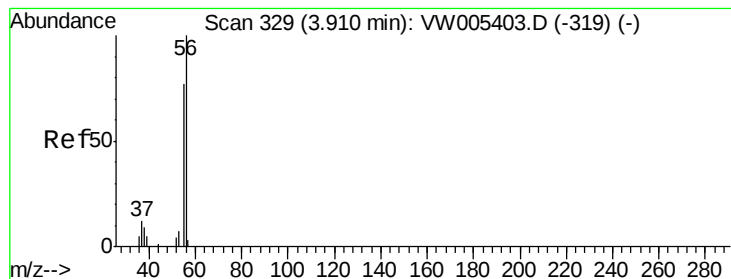
Tgt Ion:142 Resp: 151
Ion Ratio Lower Upper
142 100
127 27.2 37.5 56.3#
141 0.0 12.4 18.6#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.19 min Scan# 539
Delta R.T. -0.02 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

Tgt Ion: 59 Resp: 370
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#13

Acrolein

Concen: Below Cal

RT: 3.92 min Scan# 331

Delta R.T. 0.01 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

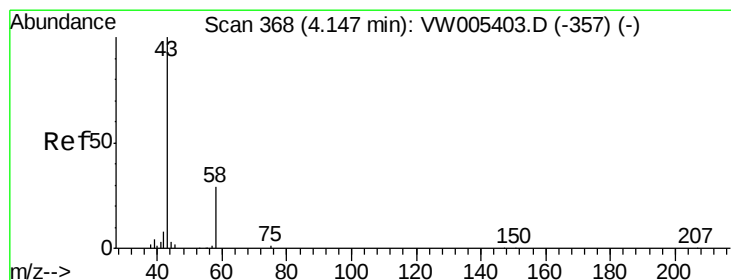
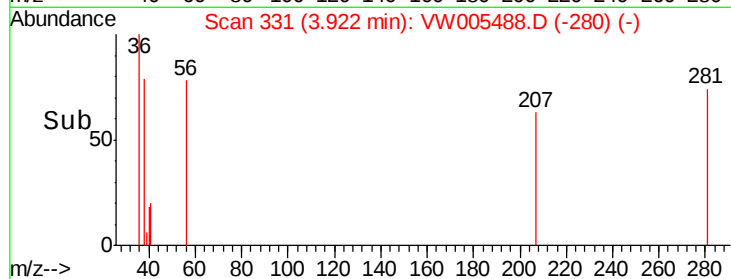
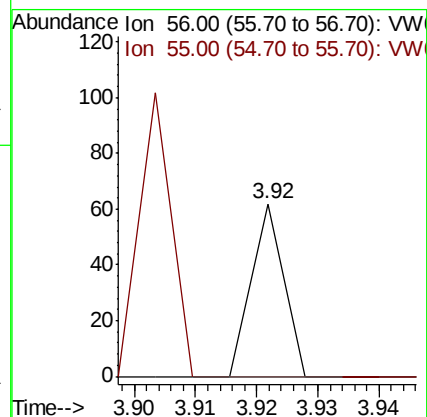
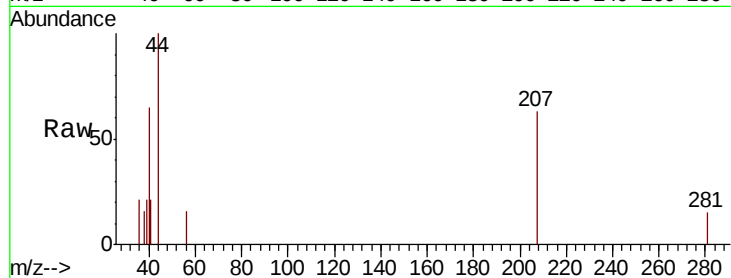
Instrument :
MSVOA_W
ClientSampleId :
RB12983RTRE

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 160.9 59.8 89.8#



#16

Acetone

Concen: 31.768 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW005488.D

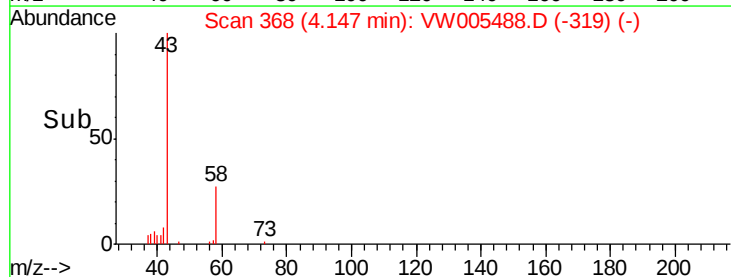
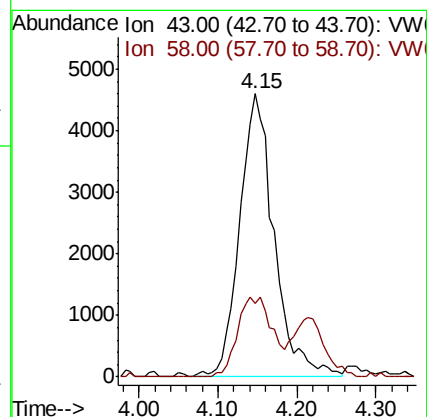
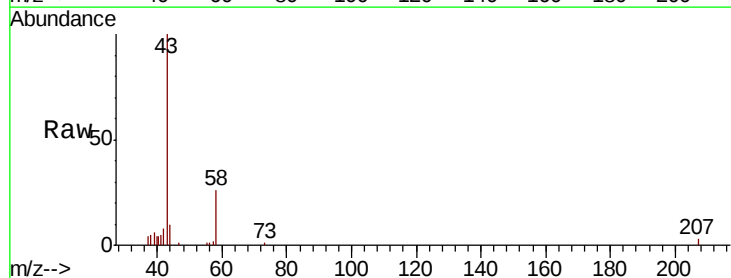
Acq: 18 Sep 2018 19:12

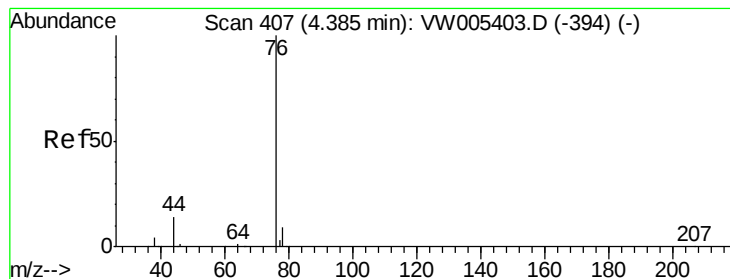
Tgt Ion: 43 Resp: 13964

Ion Ratio Lower Upper

43 100

58 26.0 22.8 34.2





#17

Carbon Disulfide

Concen: 1.219 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

Instrument :

MSVOA_W

ClientSampleId :

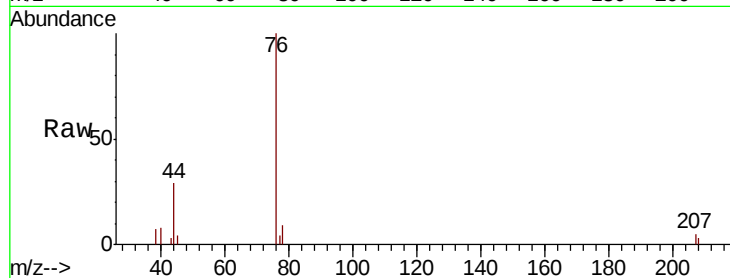
RB12983RTRE

Tgt Ion: 76 Resp: 6543

Ion Ratio Lower Upper

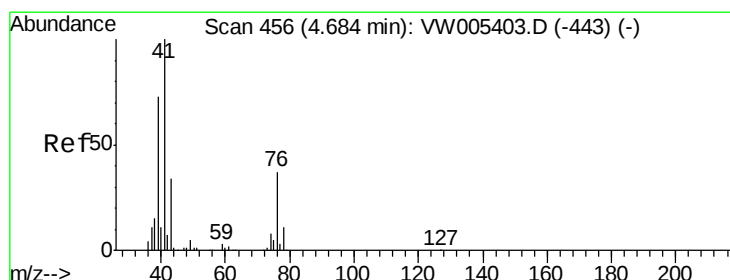
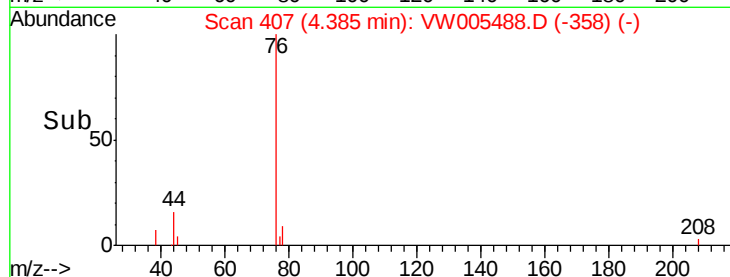
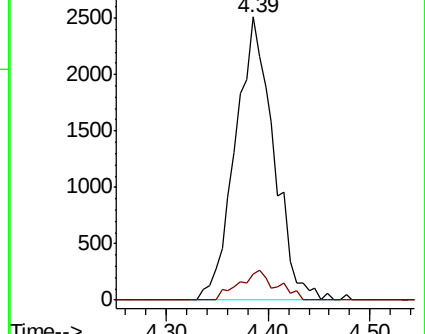
76 100

78 9.2 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 6.744 ug/l

RT: 4.68 min Scan# 456

Delta R.T. -0.00 min

Lab File: VW005488.D

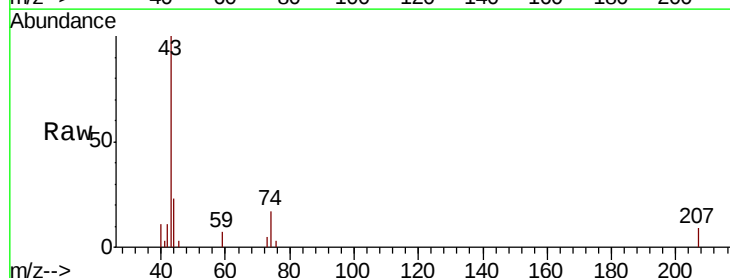
Acq: 18 Sep 2018 19:12

Tgt Ion: 43 Resp: 6625

Ion Ratio Lower Upper

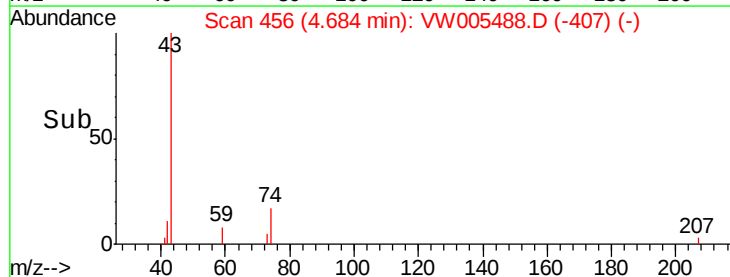
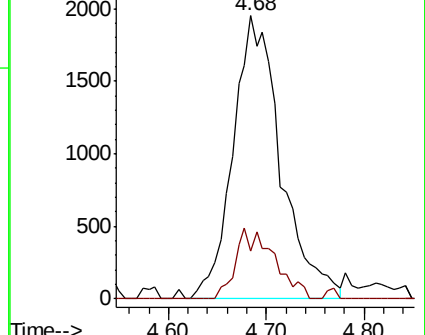
43 100

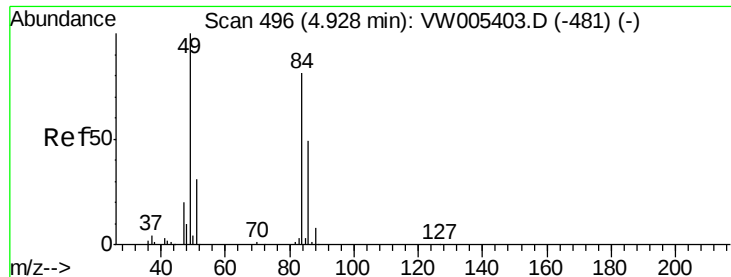
74 19.9 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

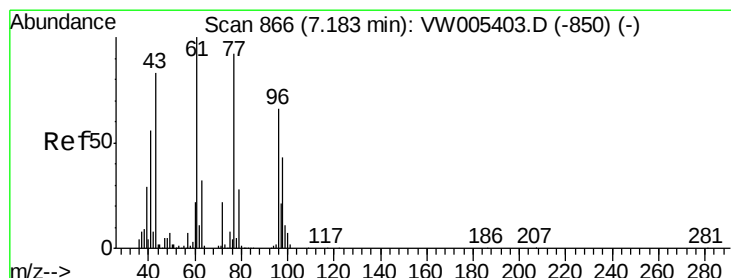
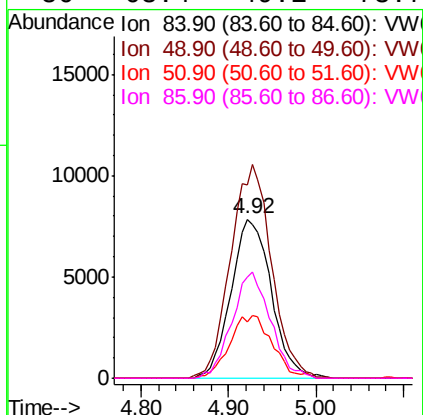
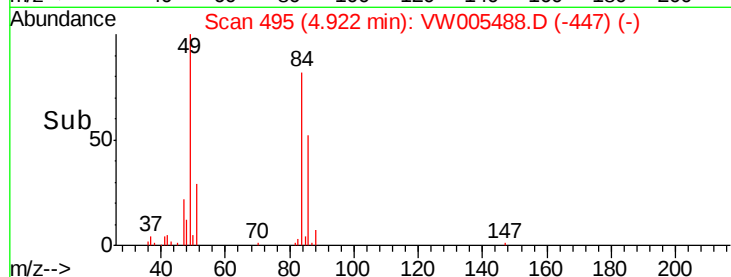
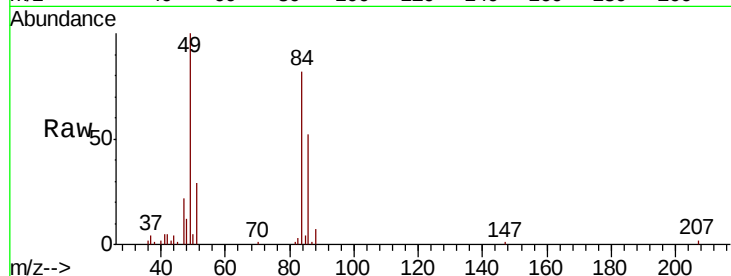




#20
Methylene Chloride
Concen: 7.517 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.01 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

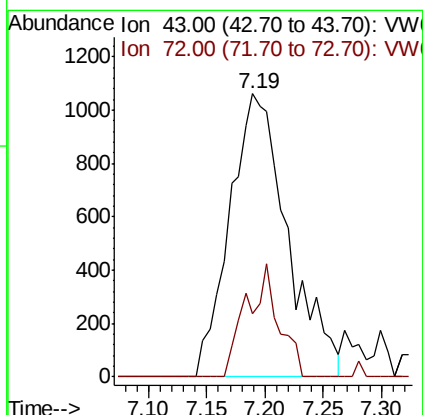
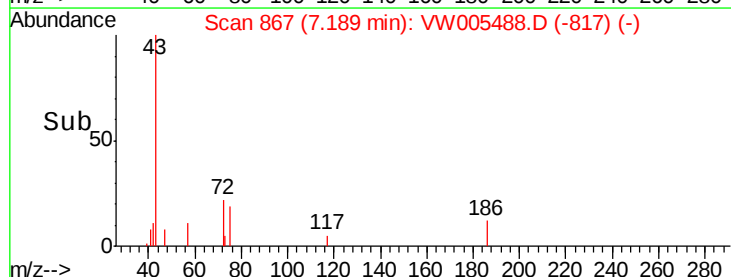
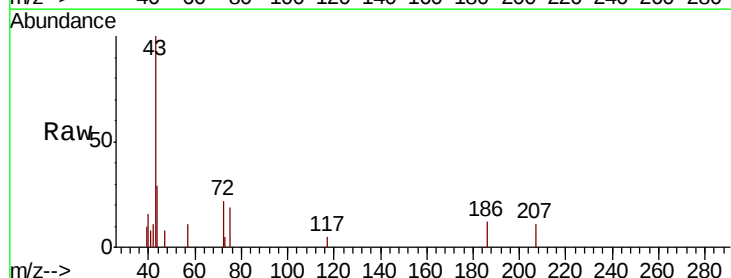
Instrument :
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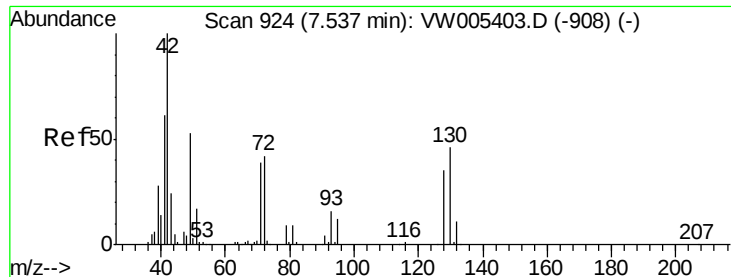
Tgt Ion:	84	Resp:	25139
Ion	Ratio	Lower	Upper
84	100		
49	121.6	99.3	148.9
51	35.6	31.1	46.7
86	63.4	49.1	73.7



#25
2-Butanone
Concen: 7.475 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.01 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

Tgt Ion:	43	Resp:	3676
Ion	Ratio	Lower	Upper
43	100		
72	22.3	21.1	31.7

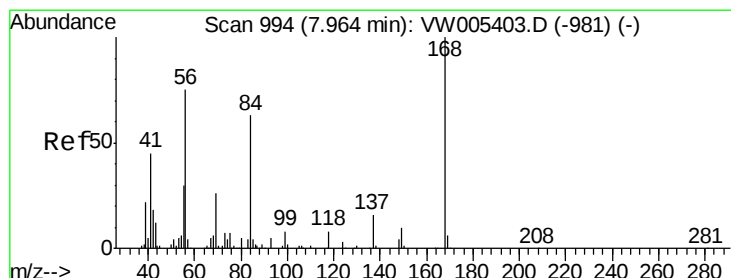
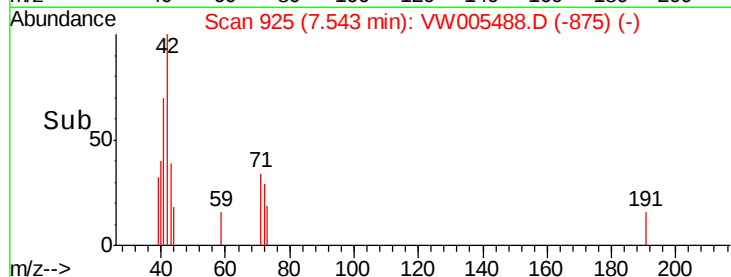
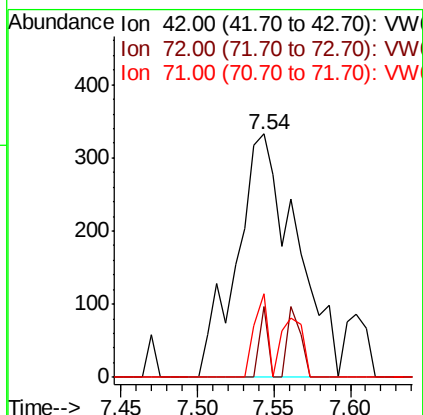
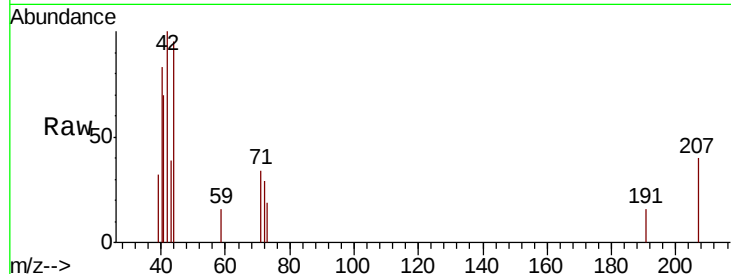




#29
Tetrahydrofuran
Concen: 2.857 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

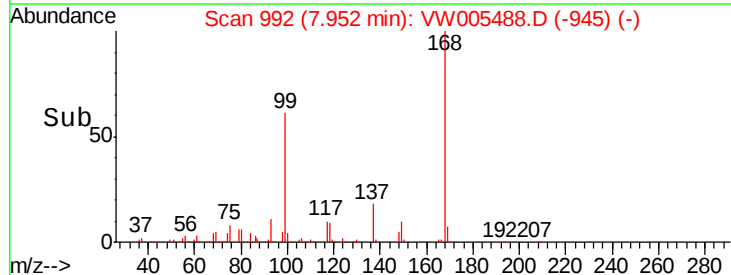
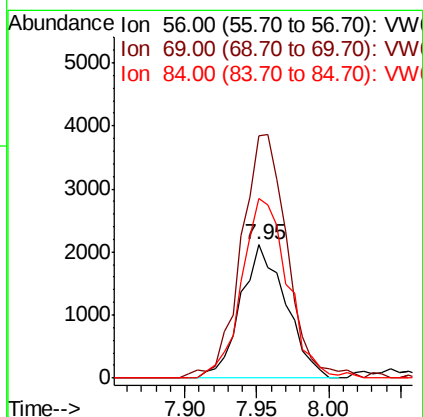
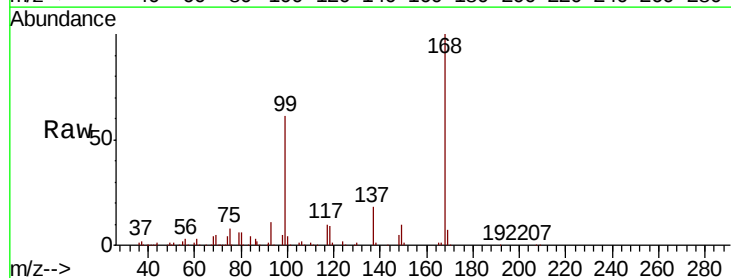
Instrument :
MSVOA_W
ClientSampleId :
RB12983RTRE

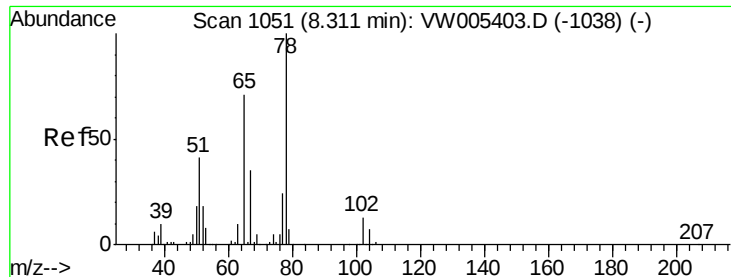
Tgt Ion: 42 Resp: 895
Ion Ratio Lower Upper
42 100
72 3.9 33.2 49.8#
71 7.5 31.0 46.6#



#31
Cyclohexane
Concen: 1.413 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

Tgt Ion: 56 Resp: 4610
Ion Ratio Lower Upper
56 100
69 179.4 27.2 40.8#
84 134.5 66.7 100.1#





#33

1,2-Dichloroethane-d4

Concen: 65.058 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

Instrument :

MSVOA_W

ClientSampleId :

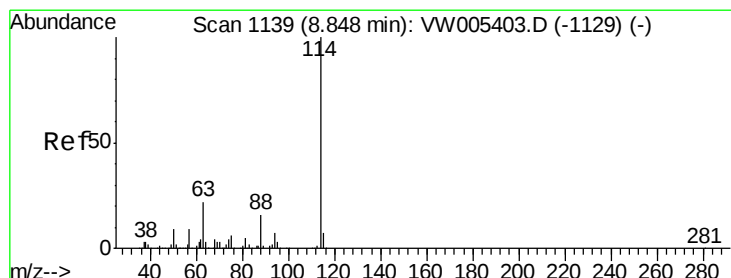
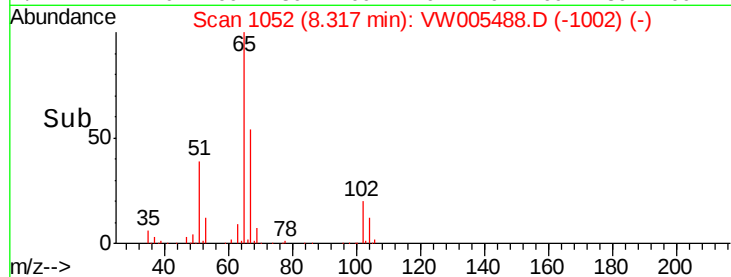
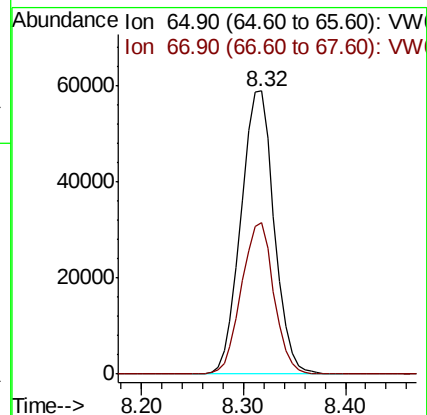
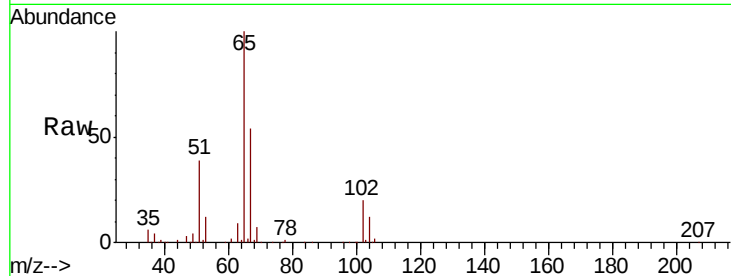
RB12983RTRE

Tgt Ion: 65 Resp: 133006

Ion Ratio Lower Upper

65 100

67 52.5 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: VW005488.D

Acq: 18 Sep 2018 19:12

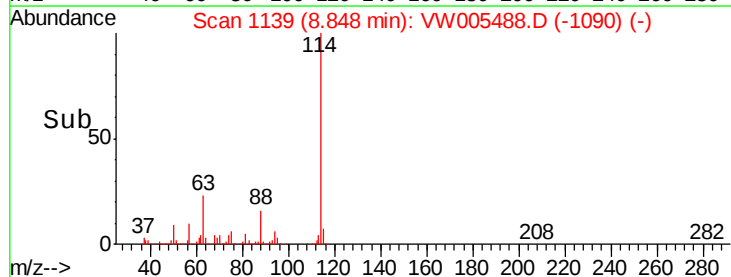
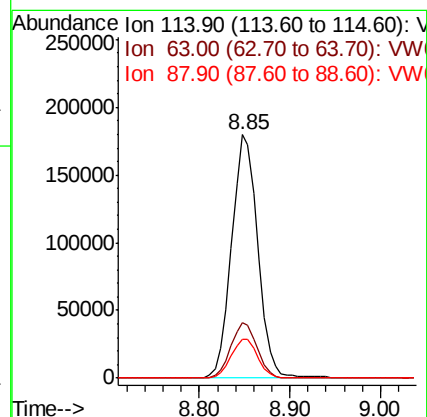
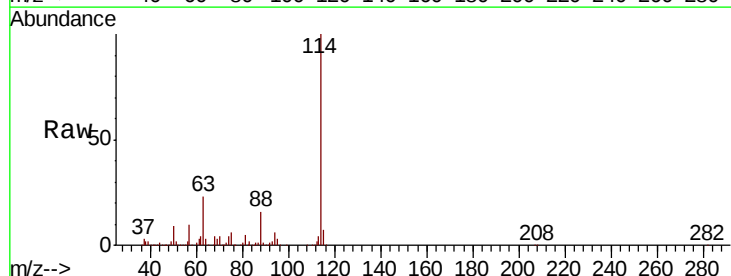
Tgt Ion: 114 Resp: 360385

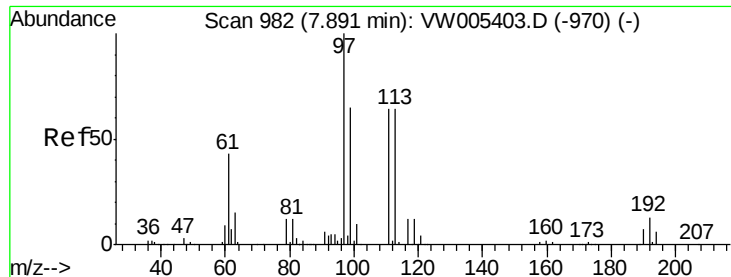
Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.4

88 16.1 0.0 31.8

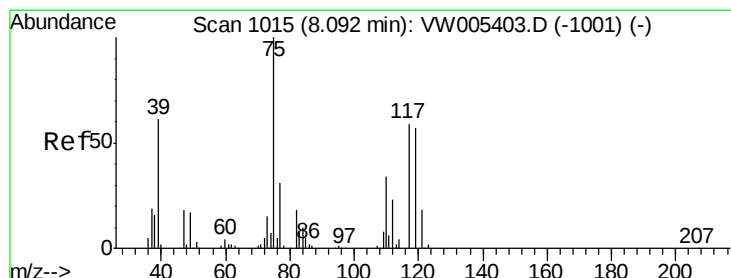
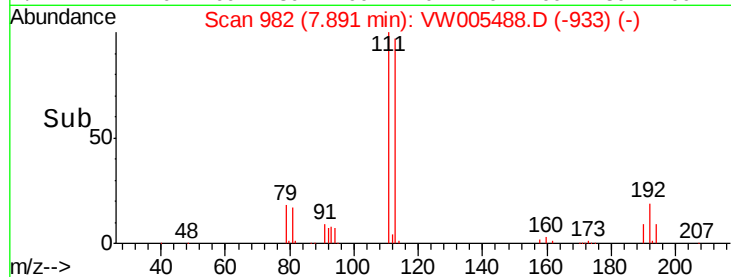
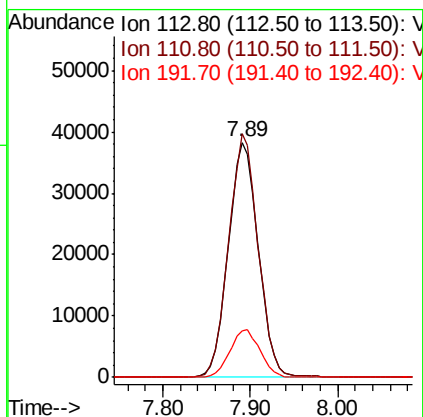
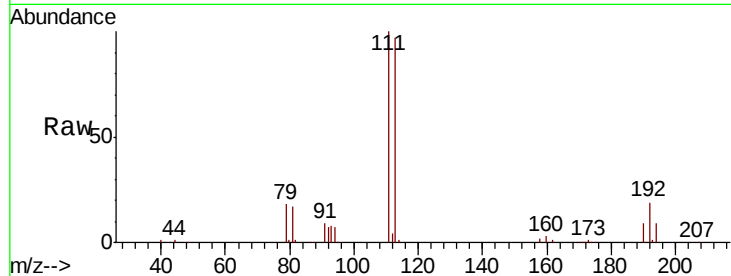




#35
 Dibromofluoromethane
 Concen: 45.151 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005488.D
 Acq: 18 Sep 2018 19:12

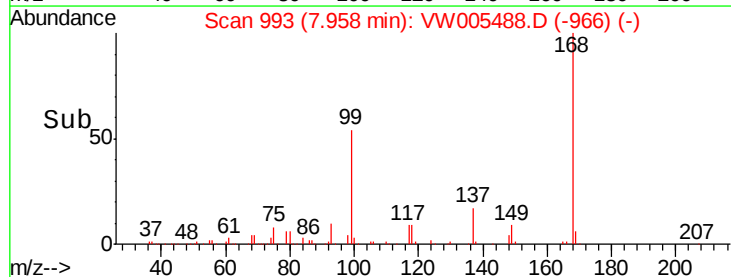
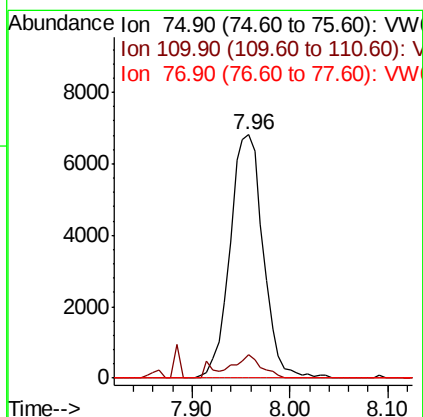
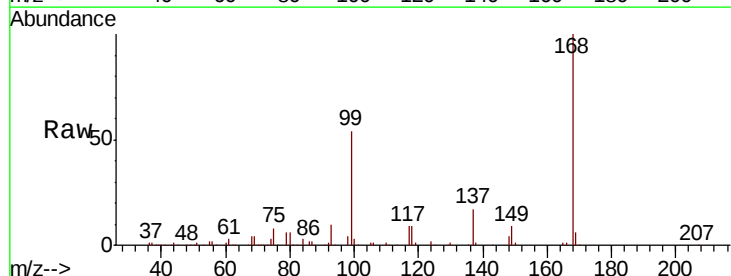
Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RTRE

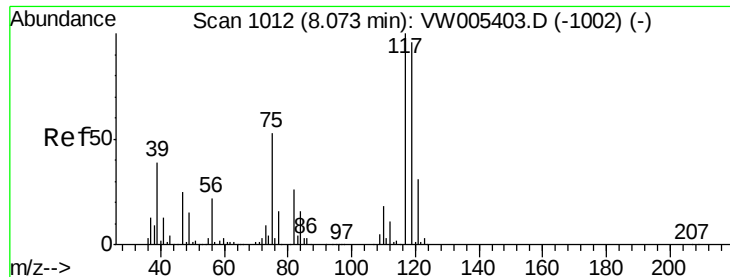
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.3	123.5
192	20.2	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.712 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005488.D
 Acq: 18 Sep 2018 19:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.8	50.4#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.528 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

Instrument :

MSVOA_W

ClientSampleId :

RB12983RTRE

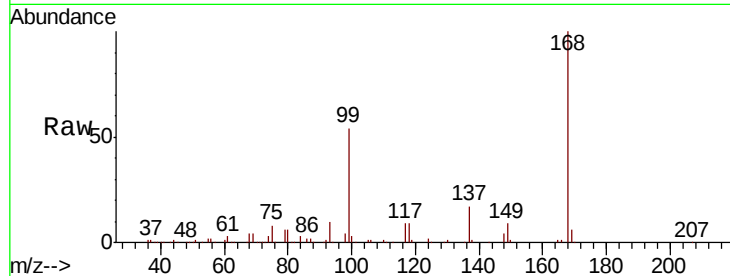
Tgt Ion:117 Resp: 19648

Ion Ratio Lower Upper

117 100

119 6.5 76.8 115.2#

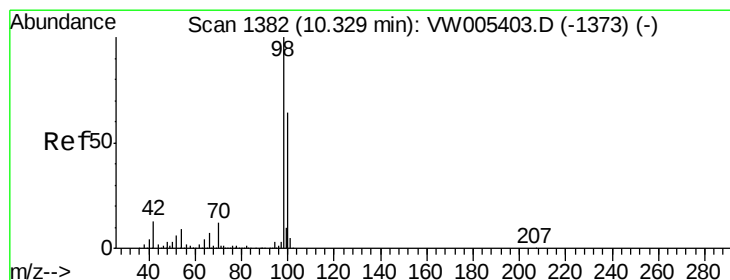
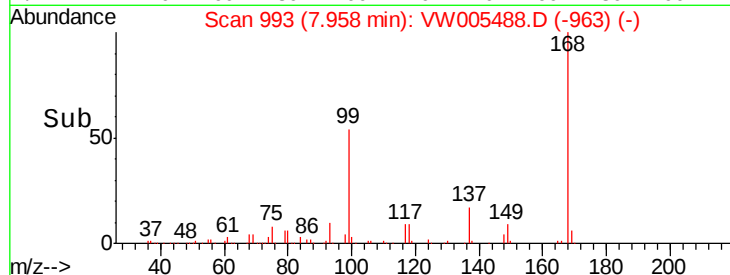
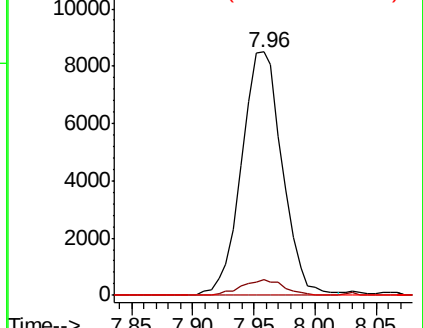
121 0.0 24.7 37.1#



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: 32.341 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005488.D

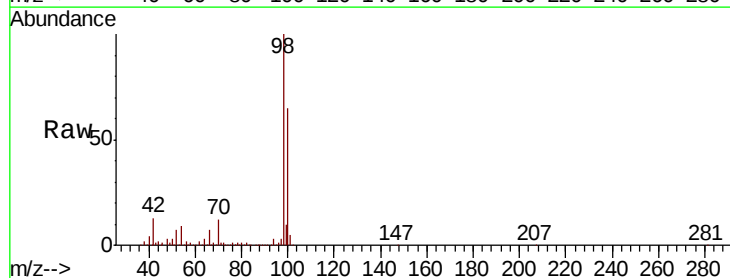
Acq: 18 Sep 2018 19:12

Tgt Ion: 98 Resp: 299267

Ion Ratio Lower Upper

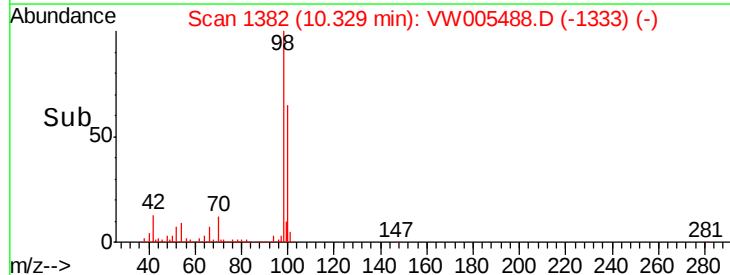
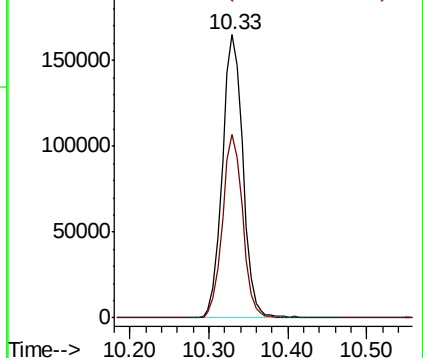
98 100

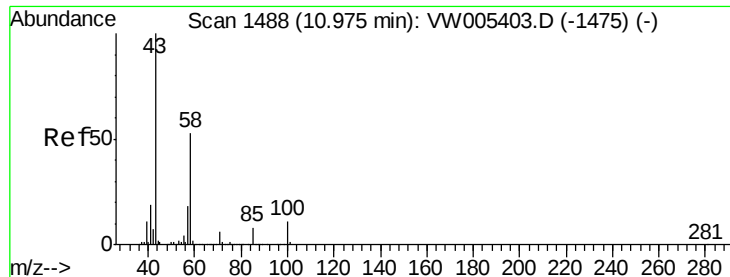
100 63.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#59

2-Hexanone

Concen: 1.641 ug/l

RT: 10.83 min Scan# 1464

Delta R.T. -0.15 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

Instrument :

MSVOA_W

ClientSampleId :

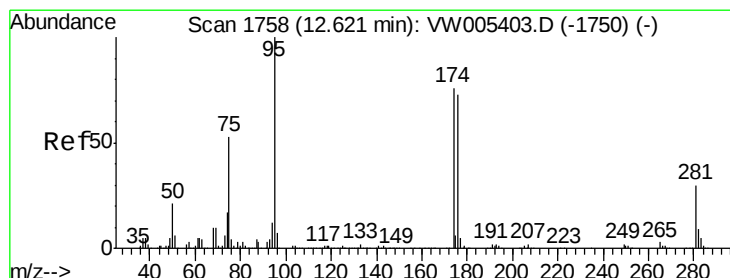
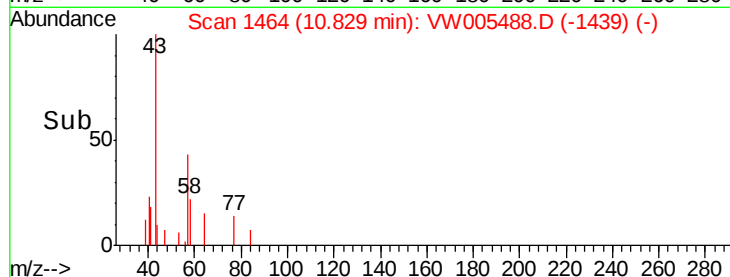
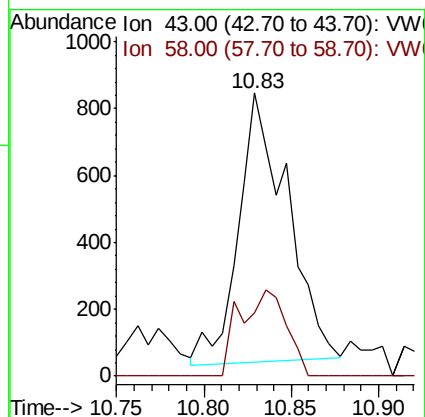
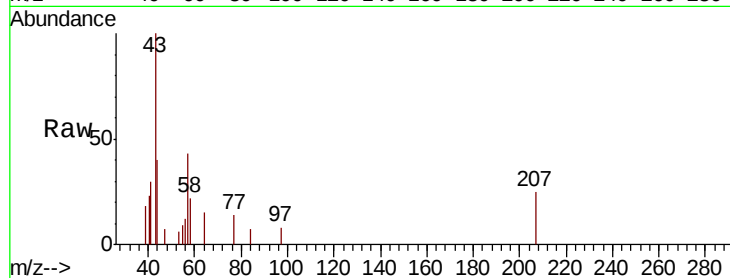
RB12983RTRE

Tgt Ion: 43 Resp: 1558

Ion Ratio Lower Upper

43 100

58 30.6 25.5 76.5



#62

4-Bromofluorobenzene

Concen: 36.473 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

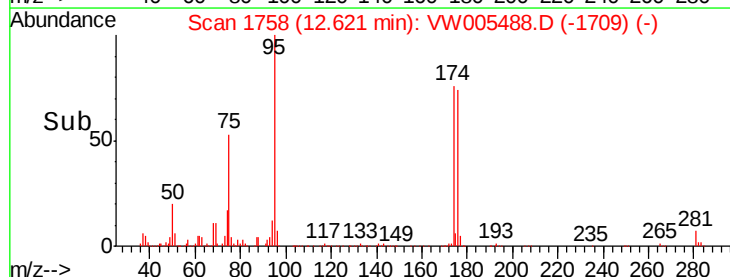
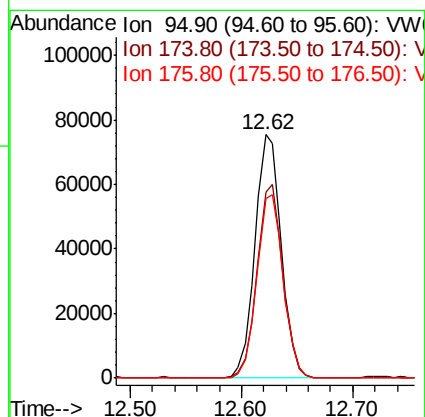
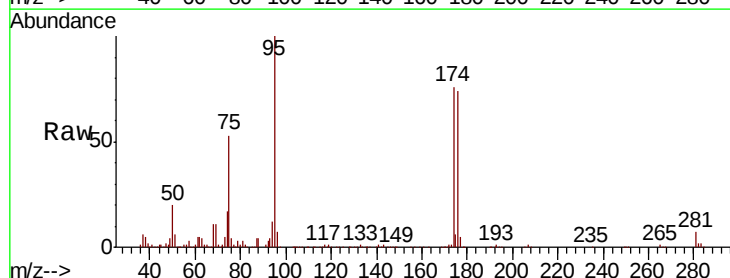
Tgt Ion: 95 Resp: 123751

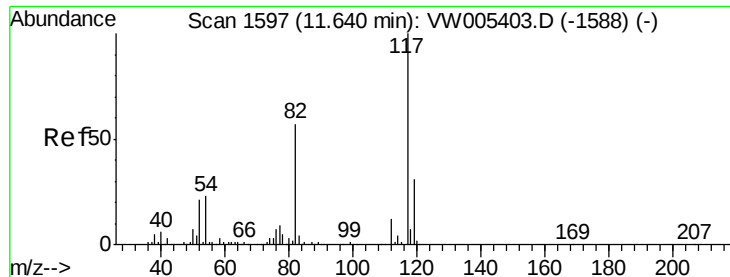
Ion Ratio Lower Upper

95 100

174 78.2 0.0 161.2

176 75.5 0.0 156.6

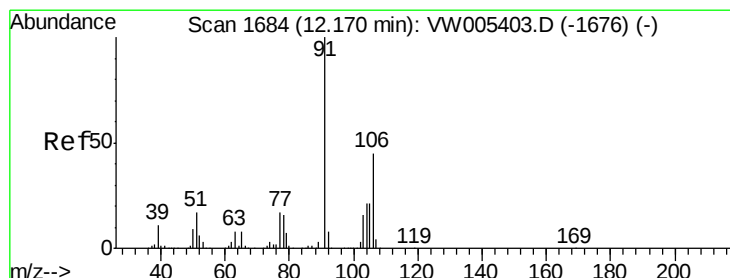
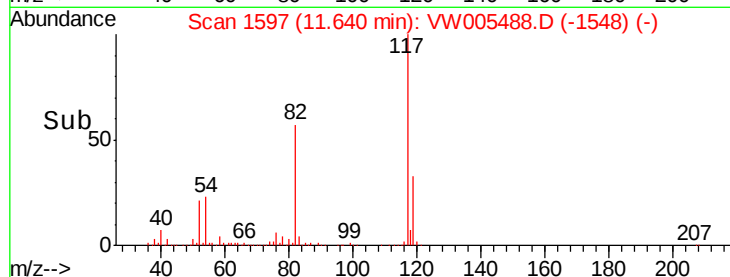
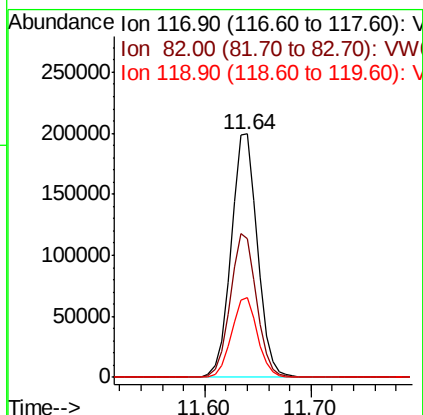
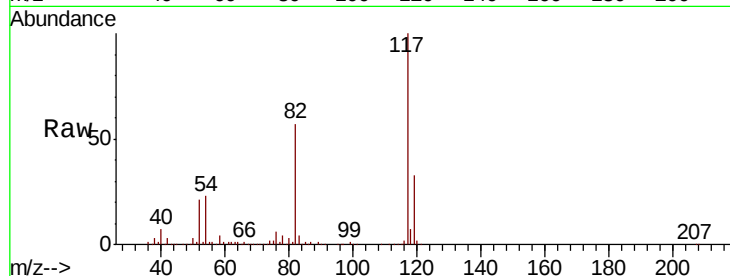




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

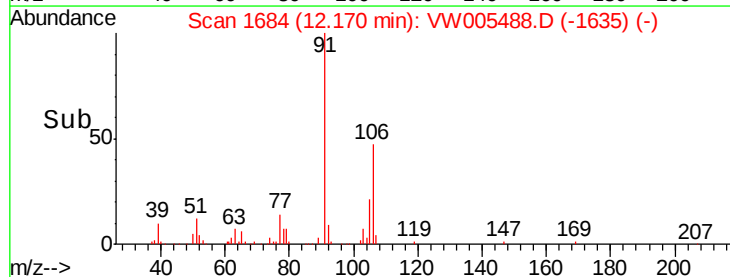
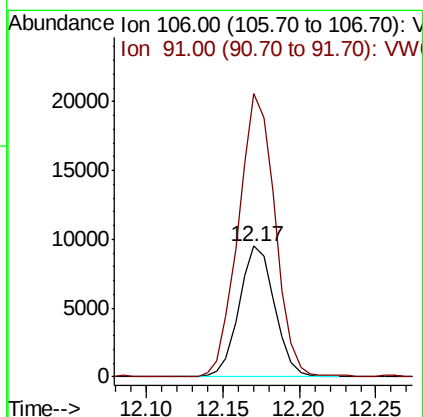
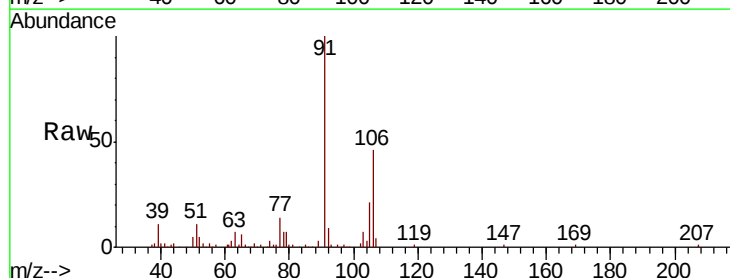
Instrument :
MSVOA_W
ClientSampleId :
RB12983RTRE

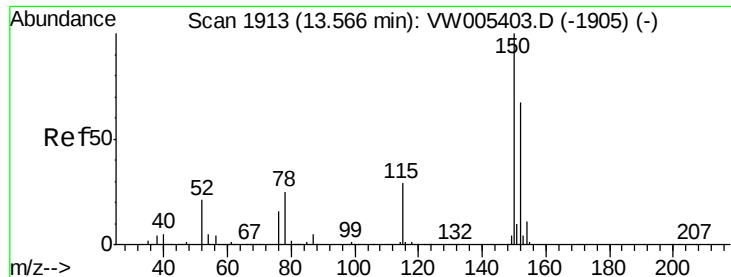
Tgt Ion:117 Resp: 345955
Ion Ratio Lower Upper
117 100
82 57.0 45.9 68.9
119 32.8 24.8 37.2



#69
o-Xylene
Concen: 3.308 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

Tgt Ion:106 Resp: 15308
Ion Ratio Lower Upper
106 100
91 223.7 110.6 331.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005488.D

Acq: 18 Sep 2018 19:12

Instrument :

MSVOA_W

ClientSampleId :

RB12983RTRE

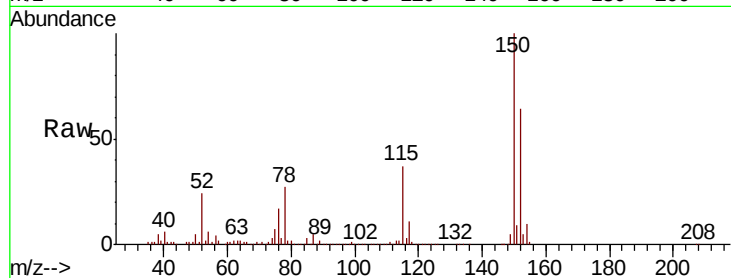
Tgt Ion:152 Resp: 149991

Ion Ratio Lower Upper

152 100

115 59.6 29.5 88.5

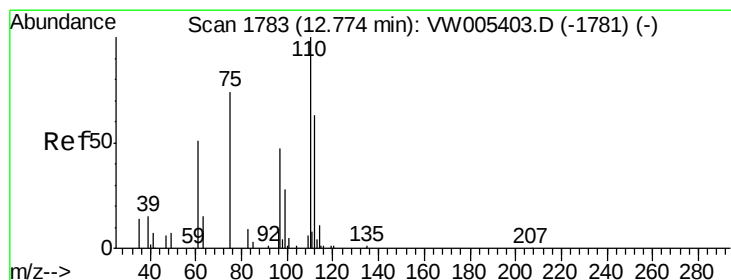
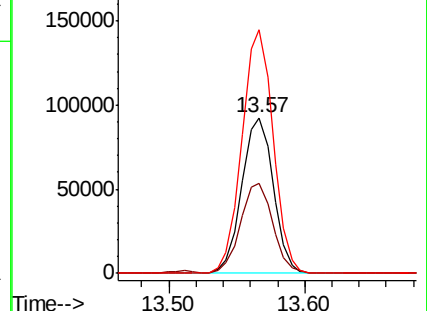
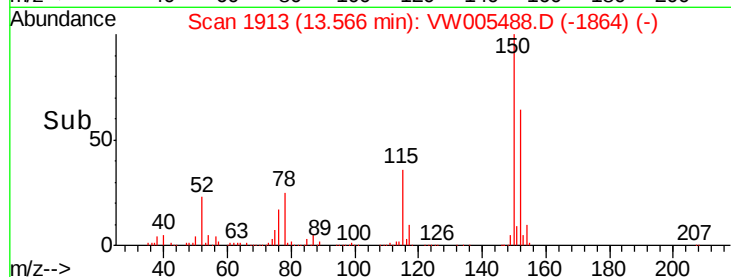
150 154.8 0.0 345.6



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: 51.932 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005488.D

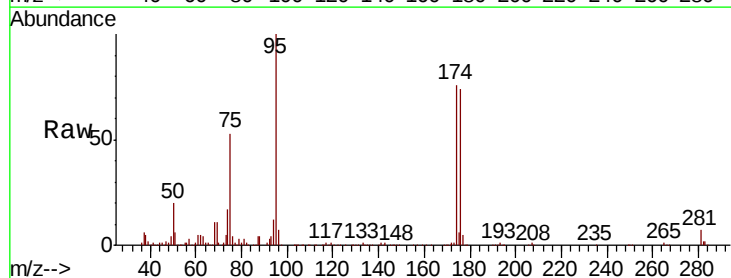
Acq: 18 Sep 2018 19:12

Tgt Ion: 75 Resp: 64066

Ion Ratio Lower Upper

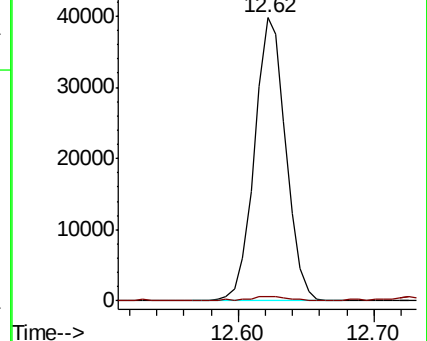
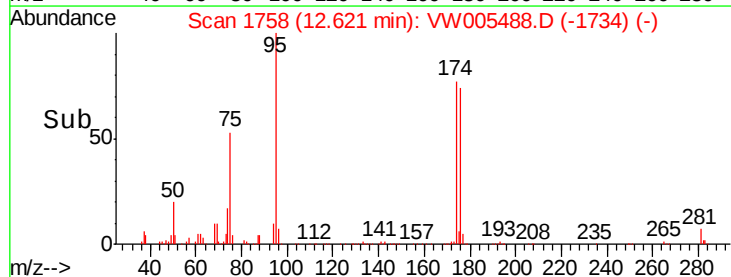
75 100

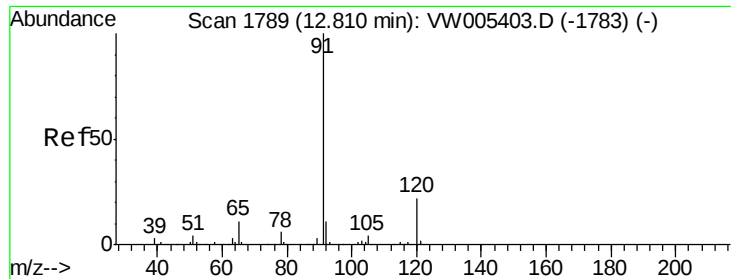
77 2.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

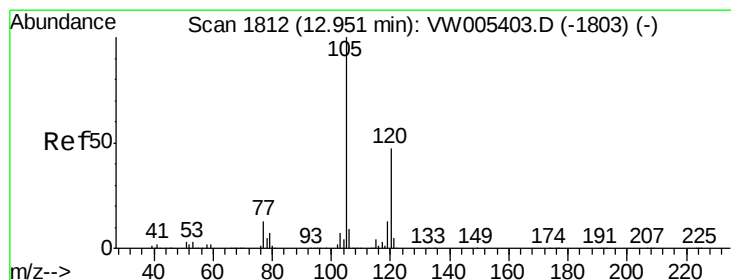
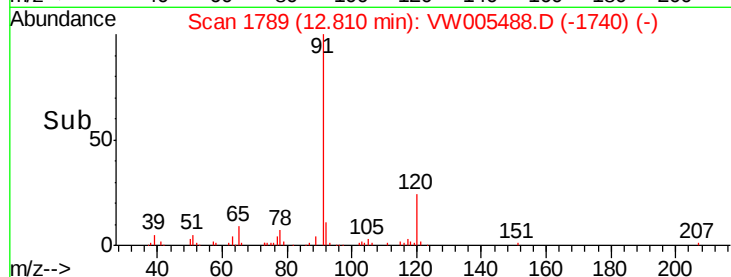
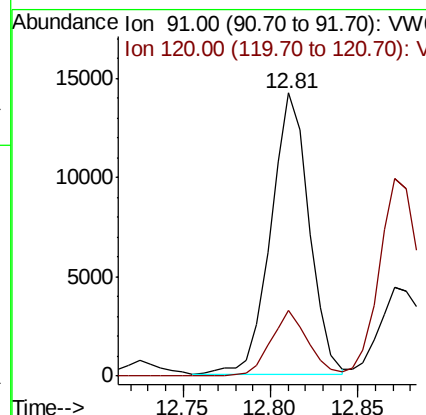
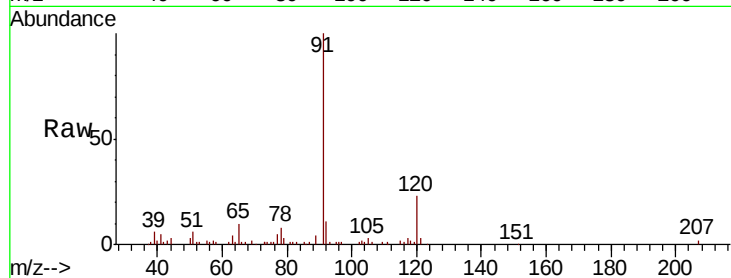




#78
n-propylbenzene
Concen: 1.698 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

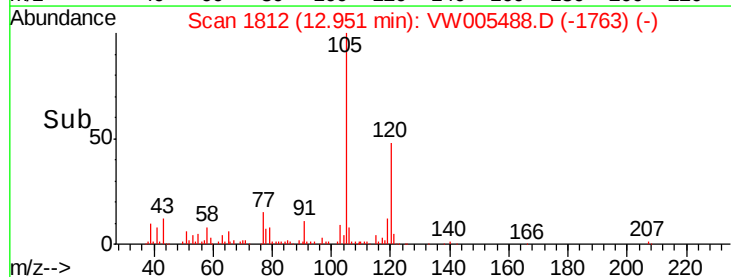
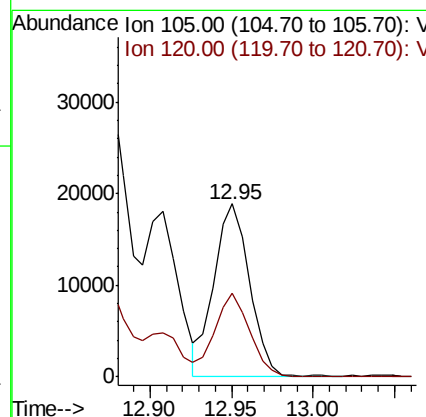
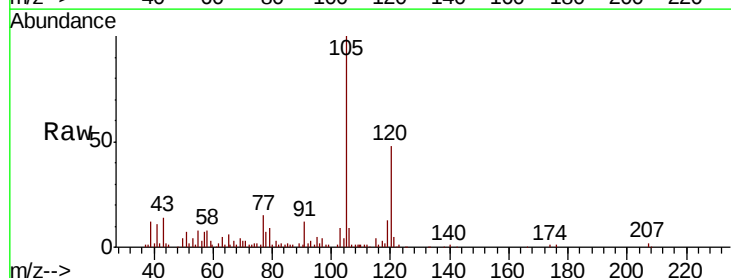
Instrument :
MSVOA_W
ClientSampleId :
RB12983RTRE

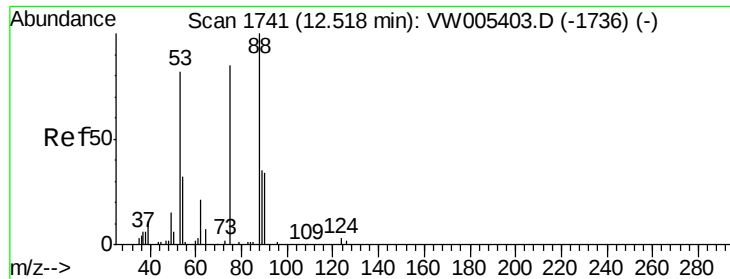
Tgt Ion: 91 Resp: 21561
Ion Ratio Lower Upper
91 100
120 23.0 11.3 33.8



#80
1,3,5-Trimethylbenzene
Concen: 3.104 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. 0.00 min
Lab File: VW005488.D
Acq: 18 Sep 2018 19:12

Tgt Ion: 105 Resp: 28497
Ion Ratio Lower Upper
105 100
120 48.0 23.5 70.5

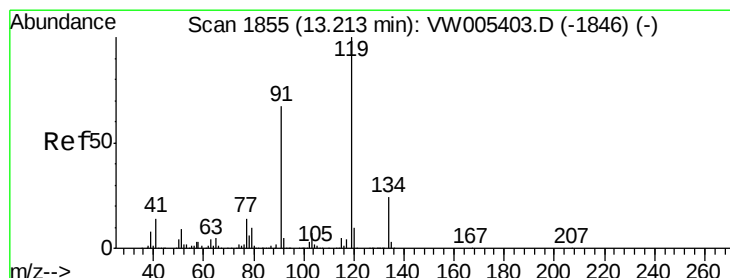
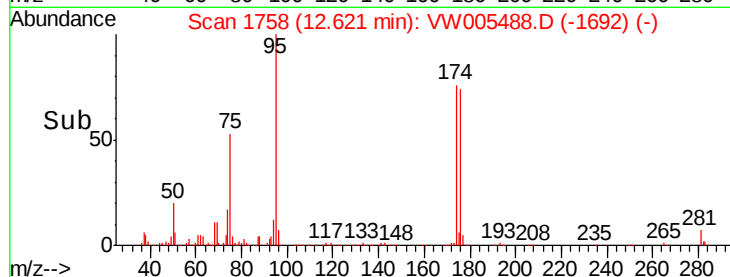
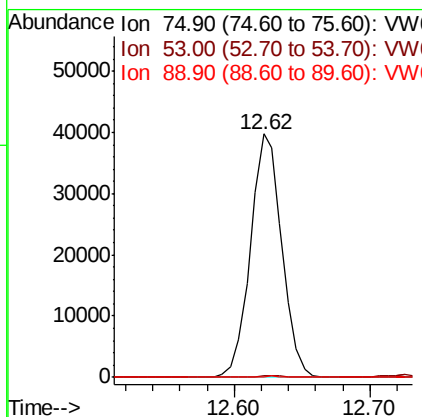
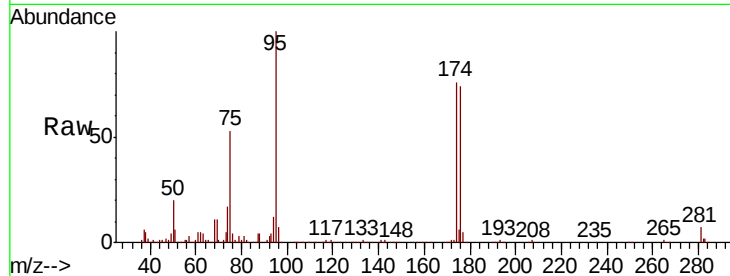




#81
 trans-1,4-Dichloro-2-butene
 Concen: 134.716 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005488.D
 Acq: 18 Sep 2018 19:12

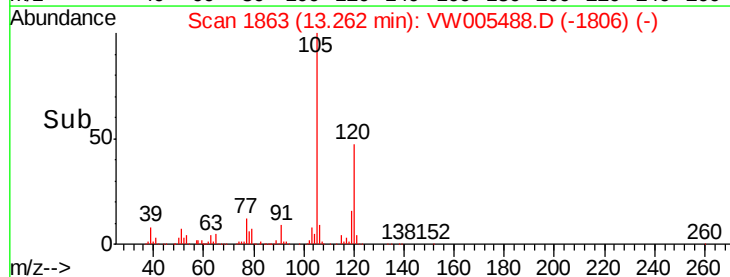
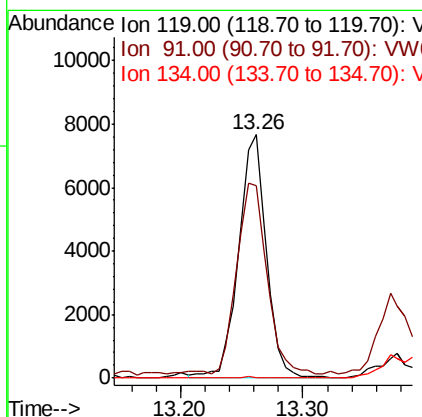
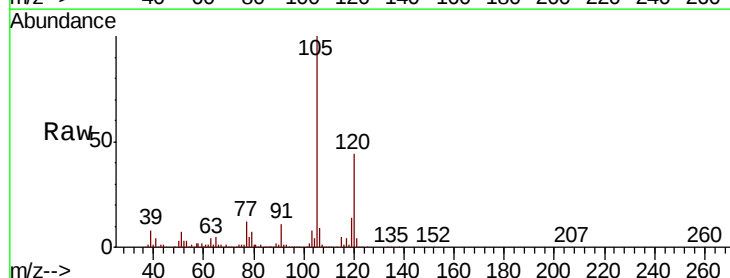
Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RTRE

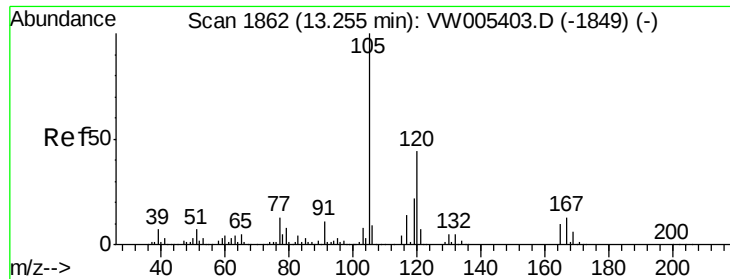
Tgt Ion: 75 Resp: 64066
 Ion Ratio Lower Upper
 75 100
 53 1.1 83.2 124.8#
 89 0.1 36.6 54.8#



#83
 tert-Butylbenzene
 Concen: 1.578 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. 0.05 min
 Lab File: VW005488.D
 Acq: 18 Sep 2018 19:12

Tgt Ion: 119 Resp: 12034
 Ion Ratio Lower Upper
 119 100
 91 85.1 34.4 103.2
 134 0.0 12.7 38.0#

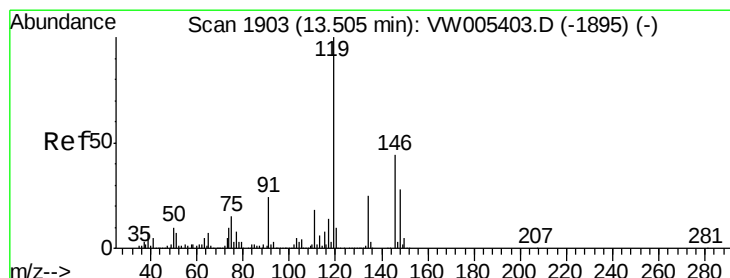
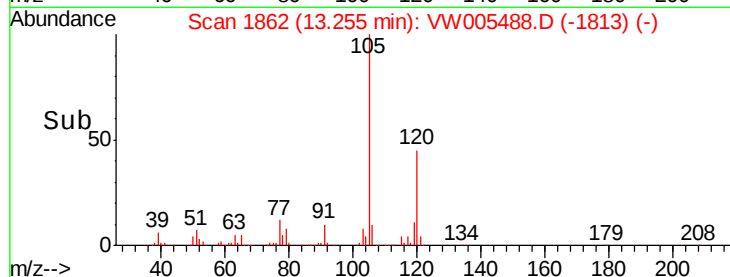
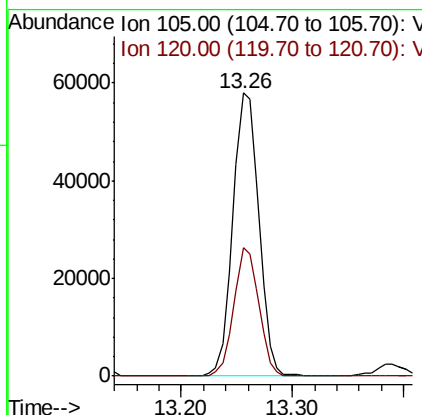
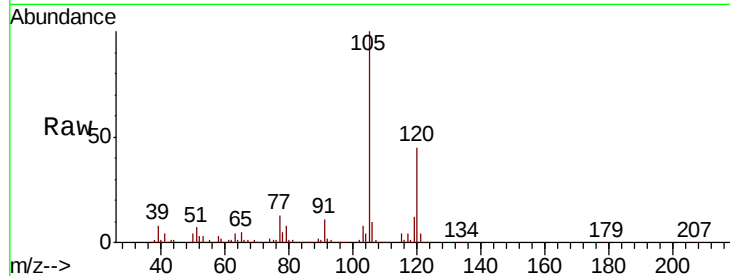




#84
 1,2,4-Trimethylbenzene
 Concen: 10.079 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW005488.D
 Acq: 18 Sep 2018 19:12

Instrument :
 MSVOA_W
 ClientSampleId :
 RB12983RTRE

Tgt Ion:105 Resp: 93951
 Ion Ratio Lower Upper
 105 100
 120 43.4 21.8 65.3



#86
 p-Isopropyltoluene
 Concen: 2.428 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005488.D
 Acq: 18 Sep 2018 19:12

Tgt Ion:119 Resp: 23927
 Ion Ratio Lower Upper
 119 100
 134 26.5 12.6 37.8
 91 44.4 12.0 36.0#

