

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW122418\
 Data File : VW007857.D
 Acq On : 22 Dec 2018 21:29
 Operator : SY/AP
 Sample : J6377-10
 Misc : 4.59G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD003-0612-01

Quant Time: Jan 03 16:12:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	80209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	133202	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	89185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	27757	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	44016	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
35) Dibromofluoromethane	7.88	113	38287	47.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.24%	
50) Toluene-d8	10.32	98	123700	40.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.76%	
62) 4-Bromofluorobenzene	12.62	95	33093	27.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.92%	

Target Compounds

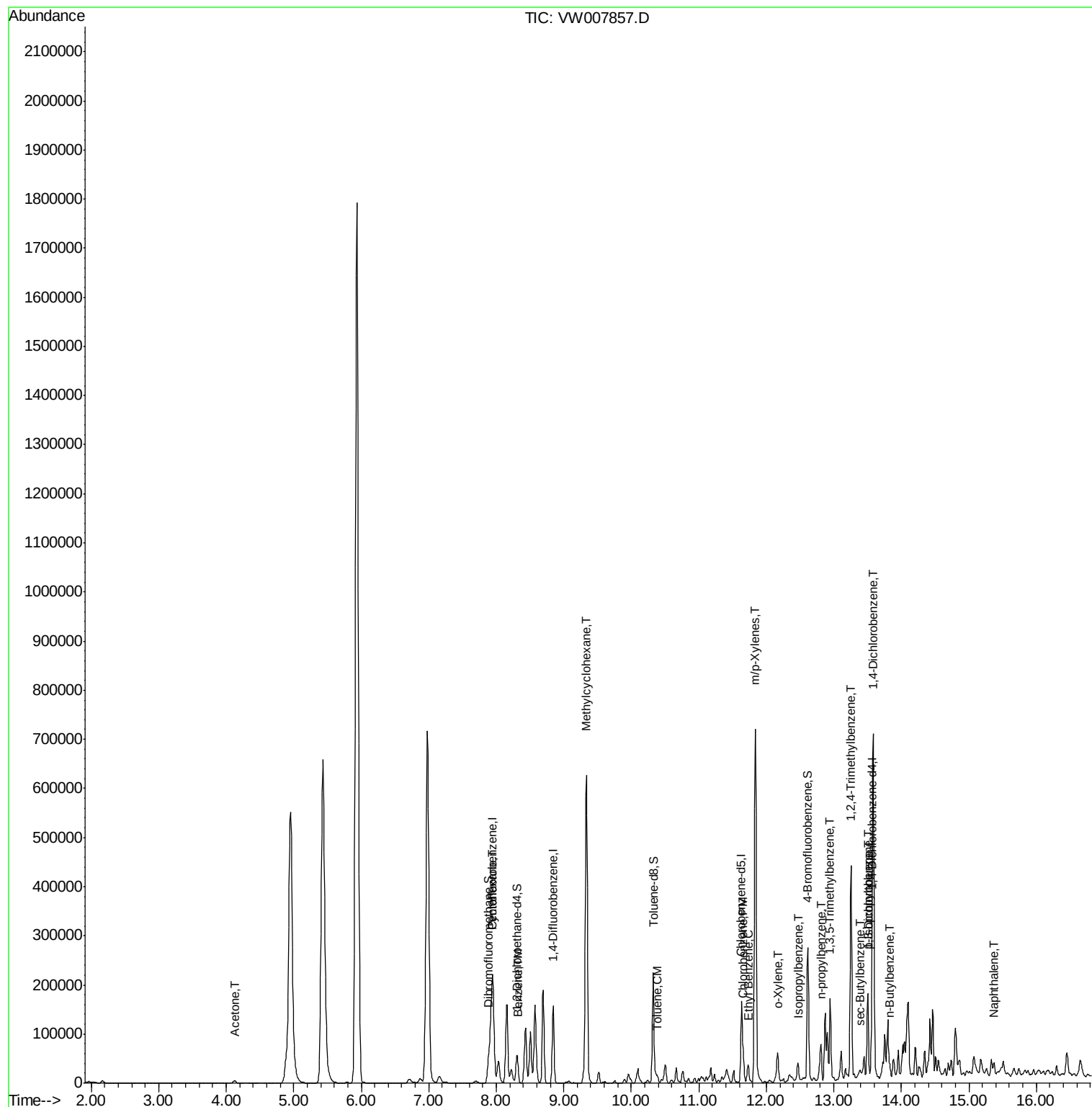
						Qvalue
16) Acetone	4.12	43	8672	52.677	ug/l	94
31) Cyclohexane	7.95	56	76307	58.308	ug/l	90
39) Methylcyclohexane	9.34	83	277304	173.581	ug/l	96
40) Benzene	8.32	78	5830	1.699	ug/l	100
52) Toluene	10.39	92	6760	2.937	ug/l	99
65) Chlorobenzene	11.66	112	27518	14.255	ug/l	96
67) Ethyl Benzene	11.73	91	15762	4.758	ug/l	95
68) m/p-Xylenes	11.84	106	225502	175.494	ug/l	99
69) o-Xylene	12.17	106	15415	12.798	ug/l	99
73) Isopropylbenzene	12.47	105	23873	11.378	ug/l	98
78) n-propylbenzene	12.81	91	58878	24.107	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	81641	45.111	ug/l	100
84) 1,2,4-Trimethylbenzene	13.26	105	241590	132.293	ug/l	99
85) sec-Butylbenzene	13.39	105	9934	4.539	ug/l #	70
86) p-Isopropyltoluene	13.51	119	19312	9.704	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	56627	59.314	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	241282	252.659	ug/l	99
89) n-Butylbenzene	13.83	91	12863	7.050	ug/l #	72
95) Naphthalene	15.38	128	24737	22.550	ug/l #	96

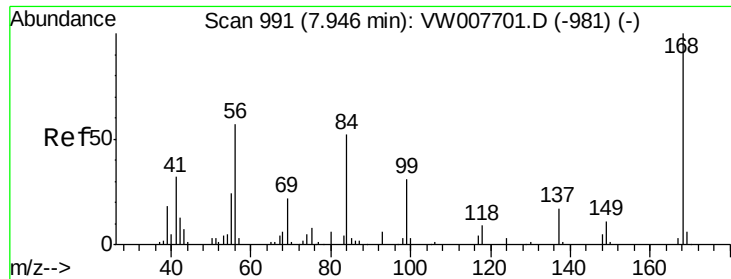
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

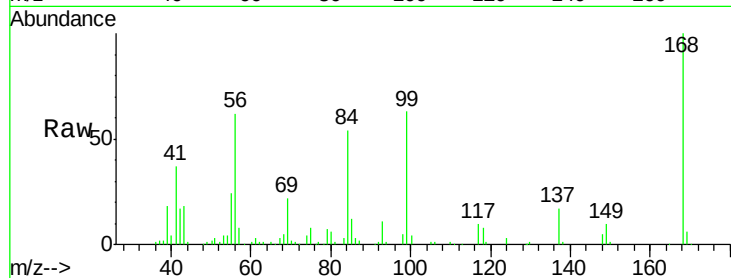
P001-SD003-0612-01

Tgt Ion:168 Resp: 80209

Ion Ratio Lower Upper

168 100

99 62.8 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

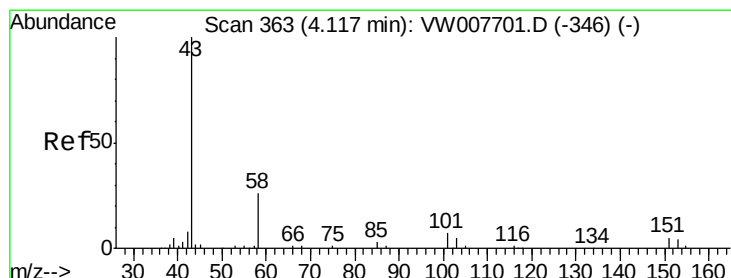
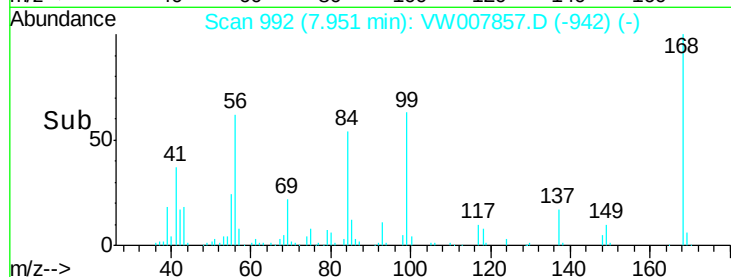
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#16

Acetone

Concen: 52.677 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007857.D

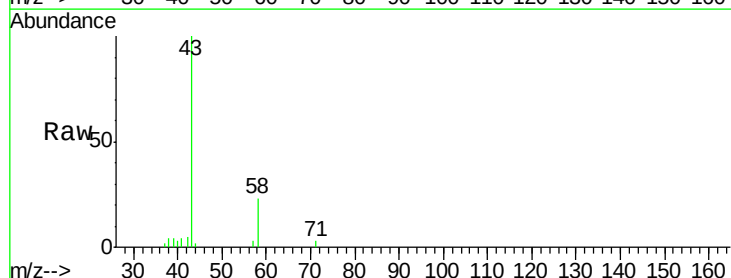
Acq: 22 Dec 2018 21:29

Tgt Ion: 43 Resp: 8672

Ion Ratio Lower Upper

43 100

58 23.3 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

4000

3000

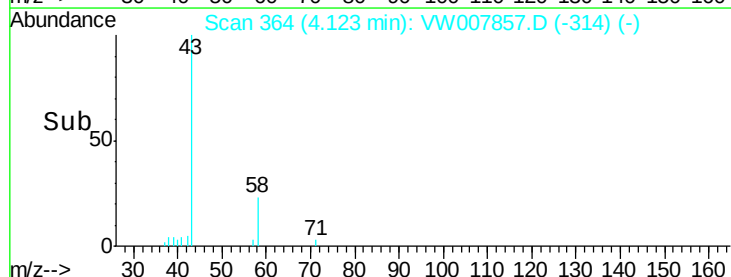
2000

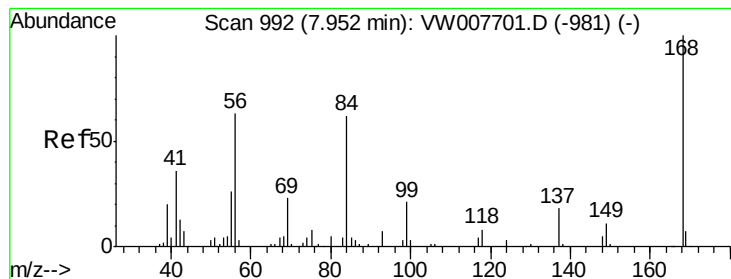
1000

0

4.00 4.10 4.20

Time-->





#31

Cyclohexane

Concen: 58.308 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

P001-SD003-0612-01

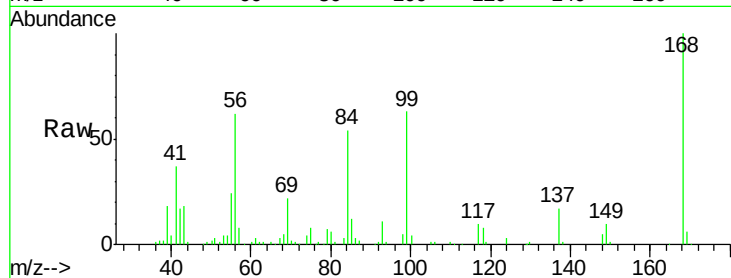
Tgt Ion: 56 Resp: 76307

Ion Ratio Lower Upper

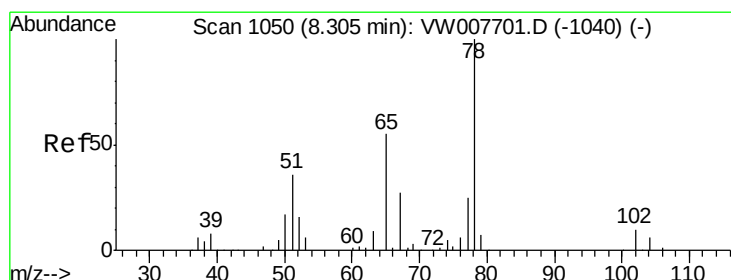
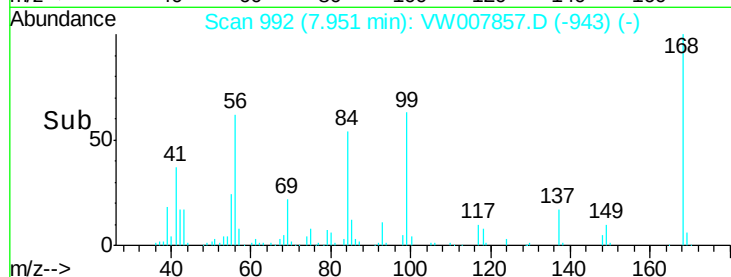
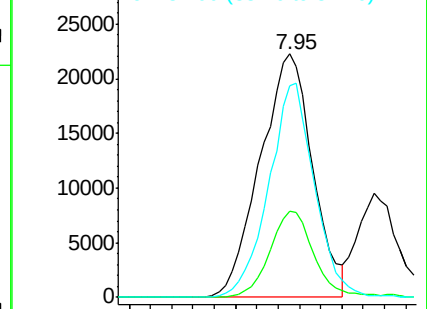
56 100

69 35.0 29.7 44.5

84 86.8 78.9 118.3



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



#33

1,2-Dichloroethane-d4

Concen: 50.068 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW007857.D

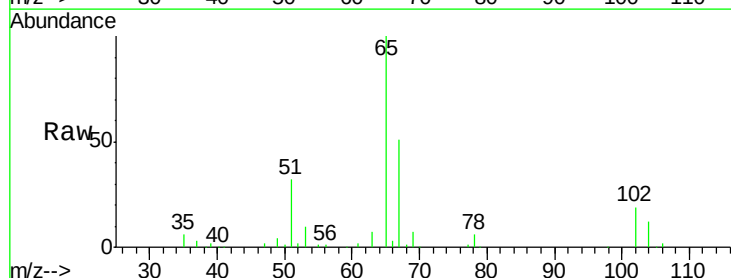
Acq: 22 Dec 2018 21:29

Tgt Ion: 65 Resp: 44016

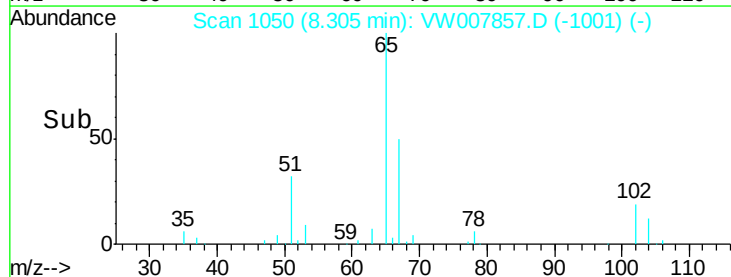
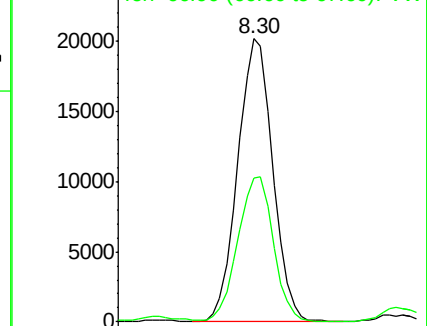
Ion Ratio Lower Upper

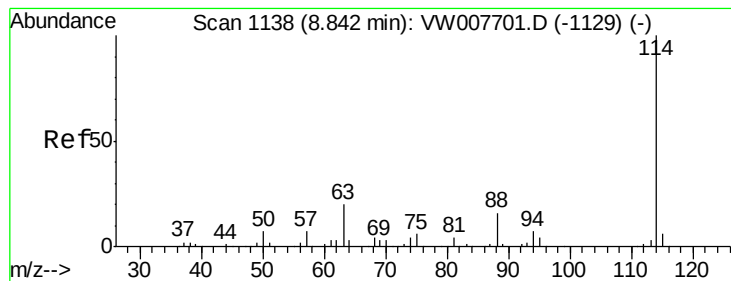
65 100

67 52.2 0.0 100.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

P001-SD003-0612-01

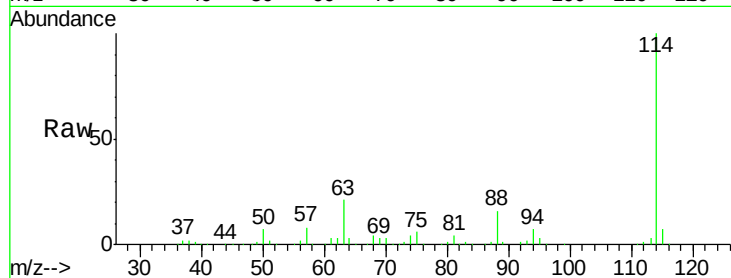
Tgt Ion:114 Resp: 133202

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.0

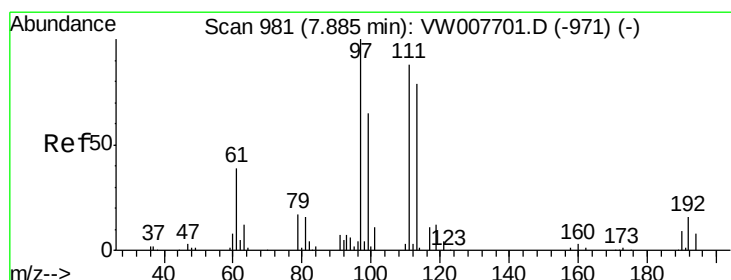
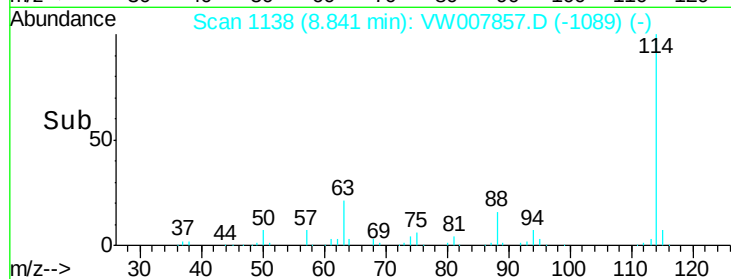
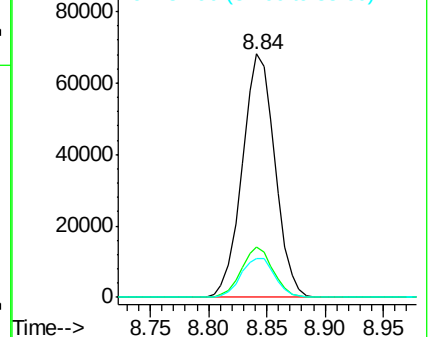
88 16.2 0.0 32.6



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: 47.117 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

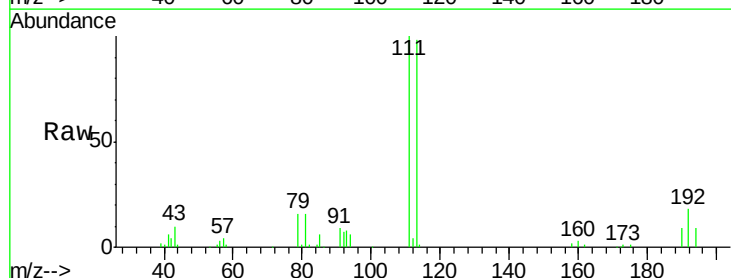
Tgt Ion:113 Resp: 38287

Ion Ratio Lower Upper

113 100

111 102.7 82.6 124.0

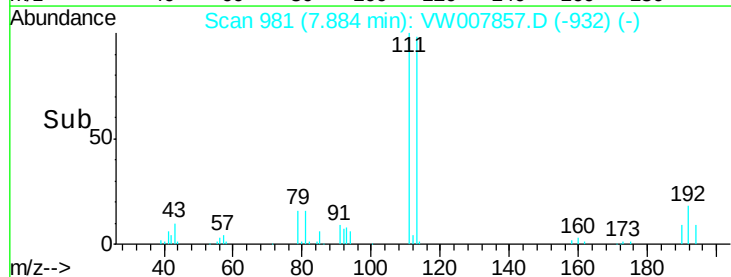
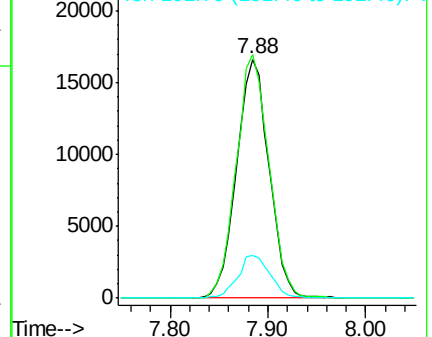
192 17.7 15.5 23.3

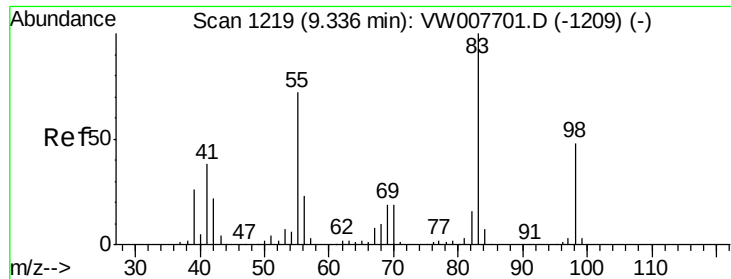


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

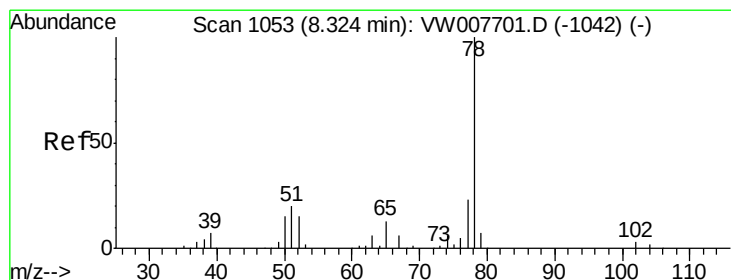
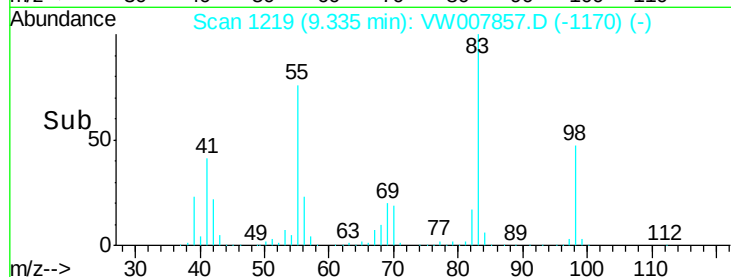
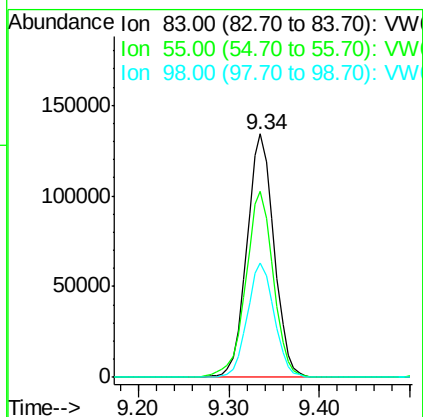
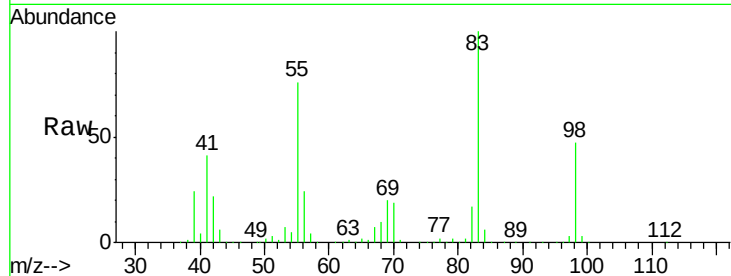




#39
Methylcyclohexane
Concen: 173.581 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

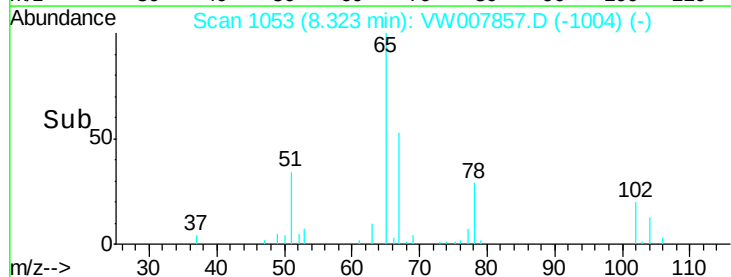
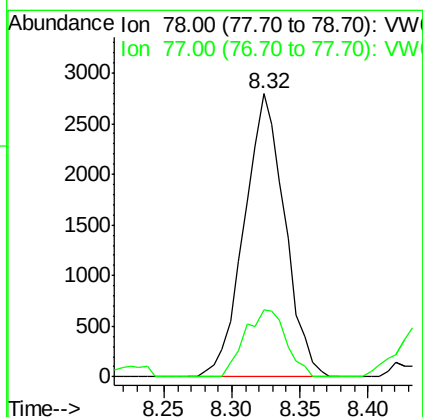
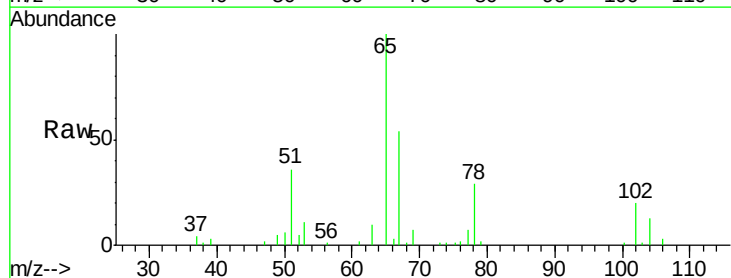
Instrument :
MSVOA_W
ClientSampleId :
P001-SD003-0612-01

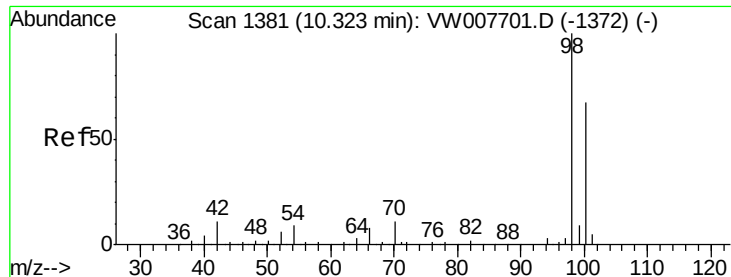
Tgt Ion: 83 Resp: 277304
Ion Ratio Lower Upper
83 100
55 76.4 57.2 85.8
98 47.1 38.6 58.0



#40
Benzene
Concen: 1.699 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

Tgt Ion: 78 Resp: 5830
Ion Ratio Lower Upper
78 100
77 23.6 18.7 28.1





#50

Toluene-d8

Concen: 40.380 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

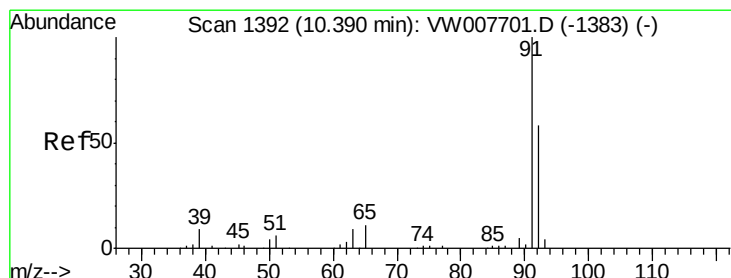
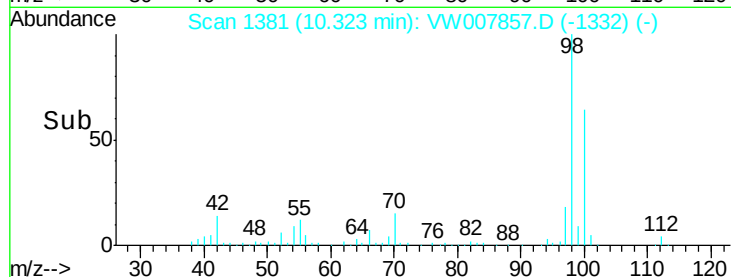
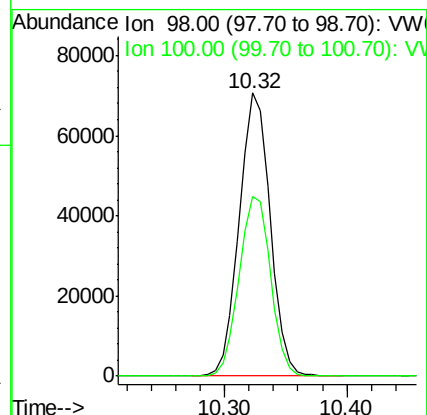
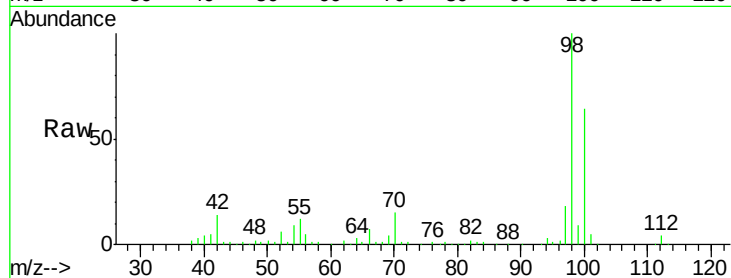
P001-SD003-0612-01

Tgt Ion: 98 Resp: 123700

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



#52

Toluene

Concen: 2.937 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007857.D

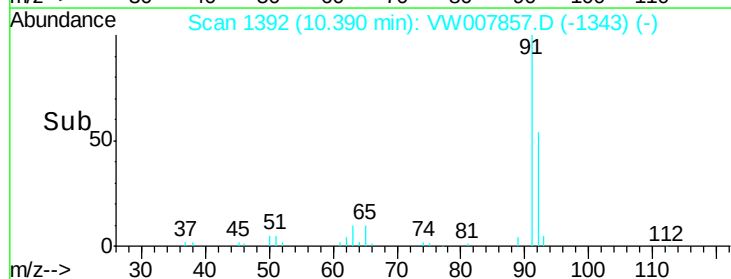
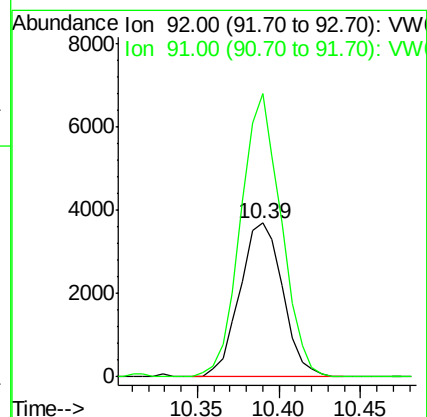
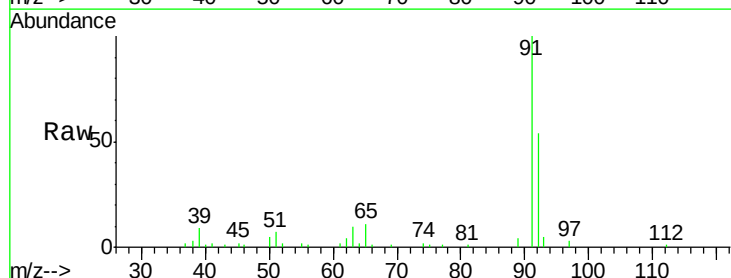
Acq: 22 Dec 2018 21:29

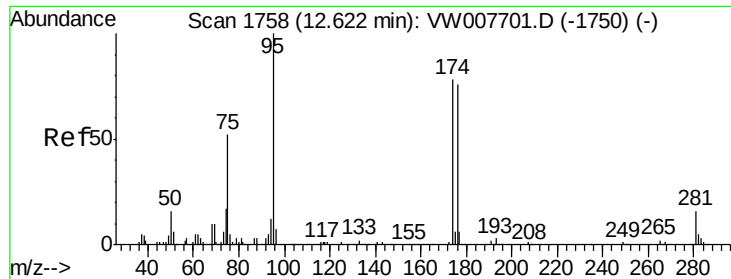
Tgt Ion: 92 Resp: 6760

Ion Ratio Lower Upper

92 100

91 173.1 137.0 205.4





#62

4-Bromofluorobenzene

Concen: 27.963 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

P001-SD003-0612-01

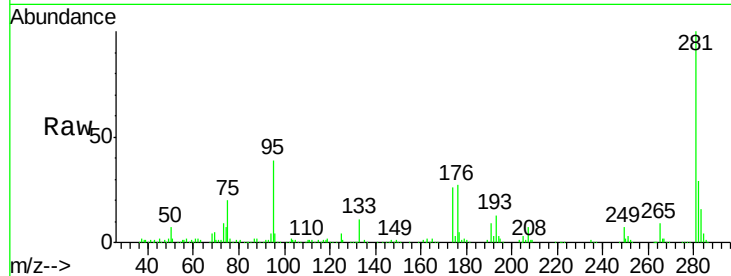
Tgt Ion: 95 Resp: 33093

Ion Ratio Lower Upper

95 100

174 70.5 0.0 152.2

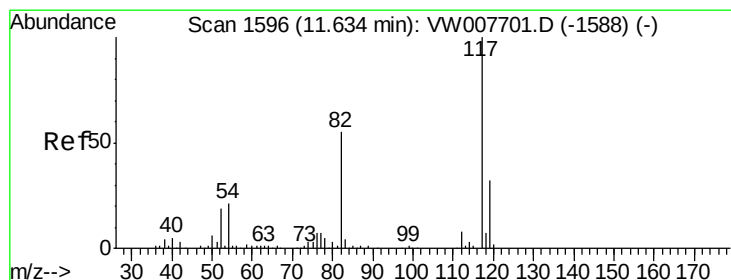
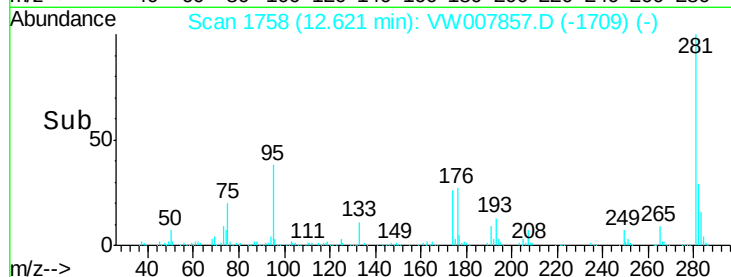
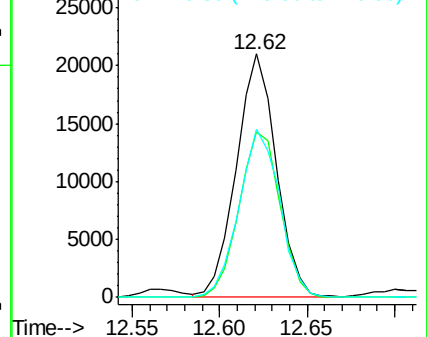
176 71.1 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

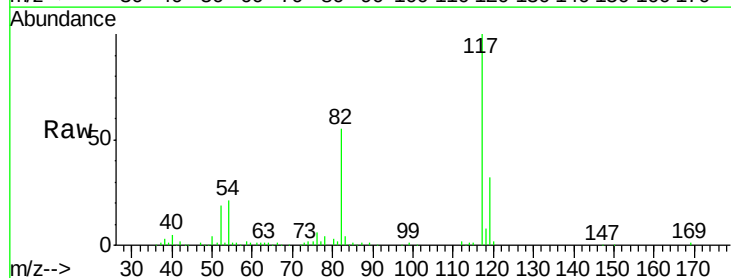
Tgt Ion: 117 Resp: 89185

Ion Ratio Lower Upper

117 100

82 55.3 44.3 66.5

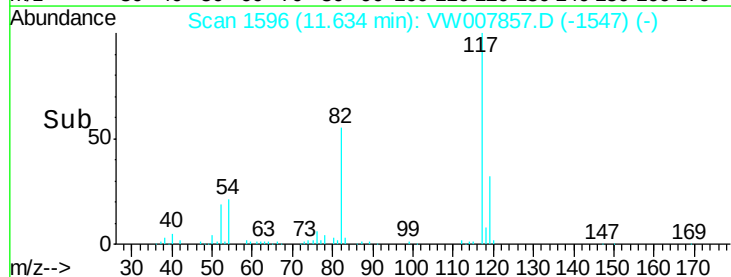
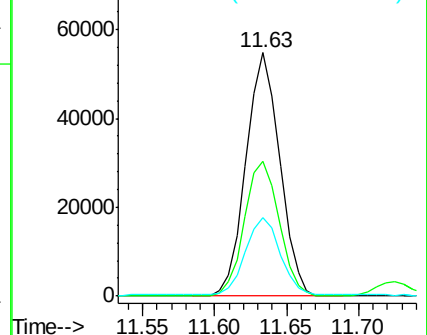
119 31.6 25.7 38.5

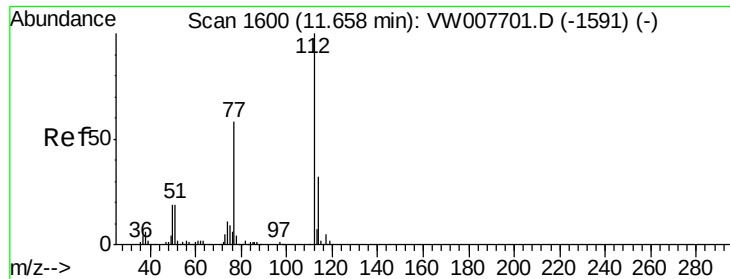


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

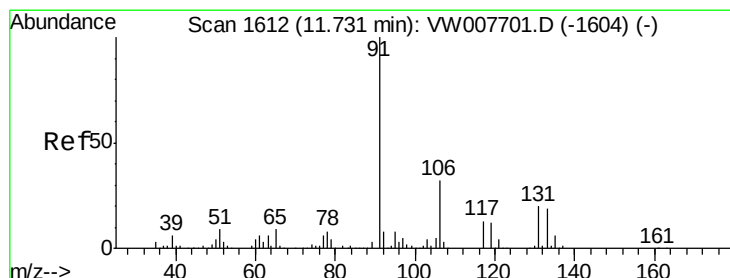
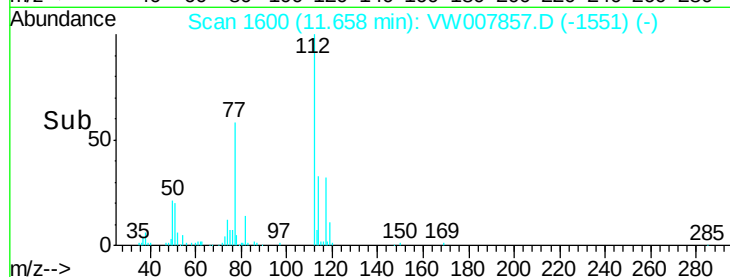
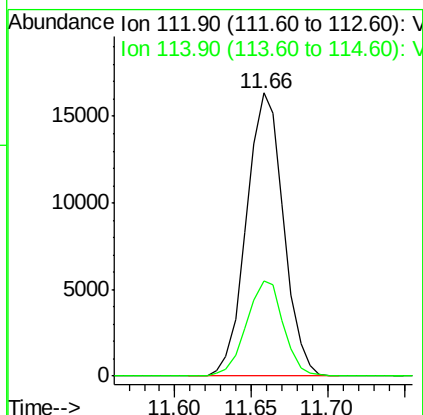
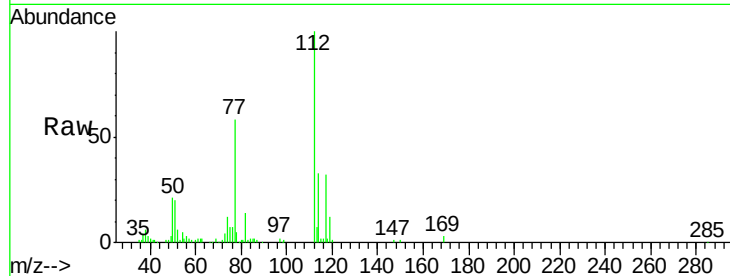




#65
Chlorobenzene
Concen: 14.255 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

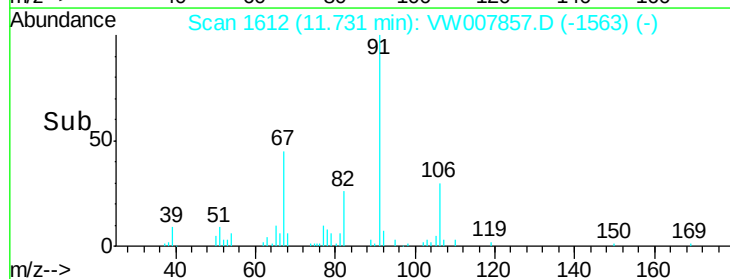
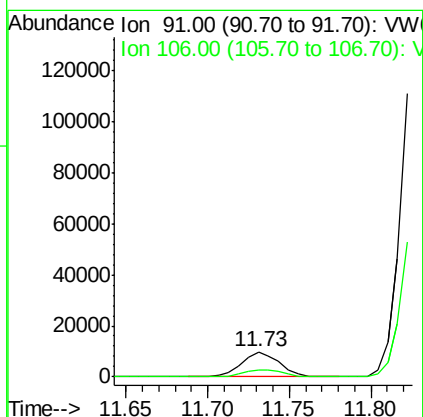
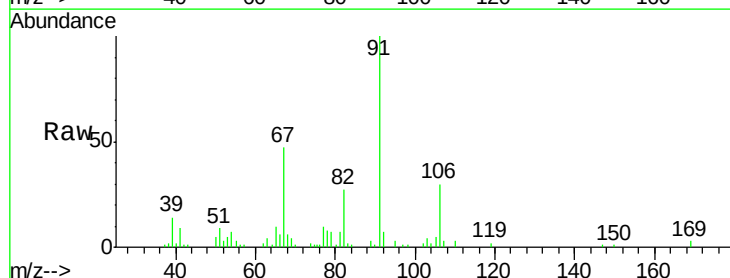
Instrument :
MSVOA_W
ClientSampleId :
P001-SD003-0612-01

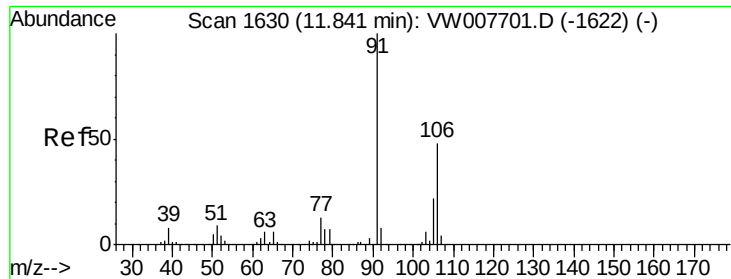
Tgt Ion: 112 Resp: 27518
Ion Ratio Lower Upper
112 100
114 33.5 25.2 37.8



#67
Ethyl Benzene
Concen: 4.758 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

Tgt Ion: 91 Resp: 15762
Ion Ratio Lower Upper
91 100
106 29.7 25.8 38.8

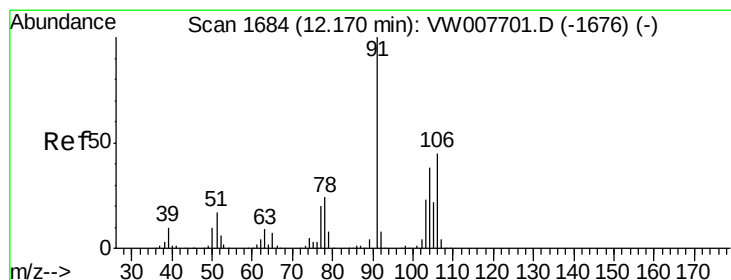
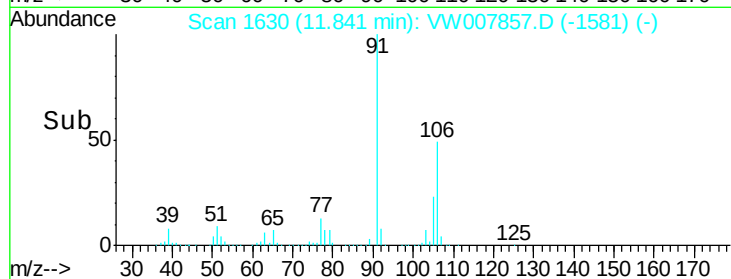
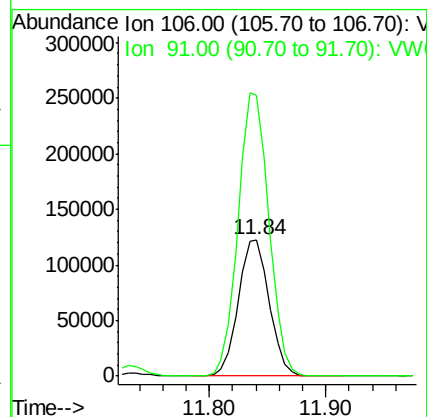
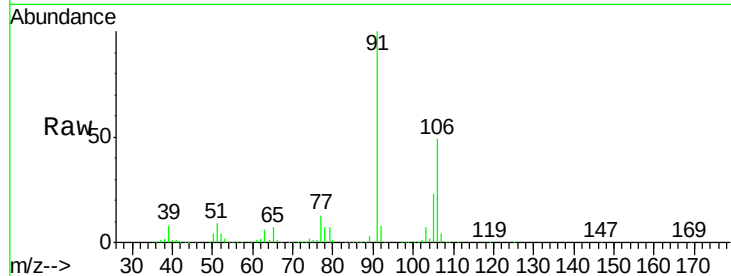




#68
m/p-Xylenes
Concen: 175.494 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

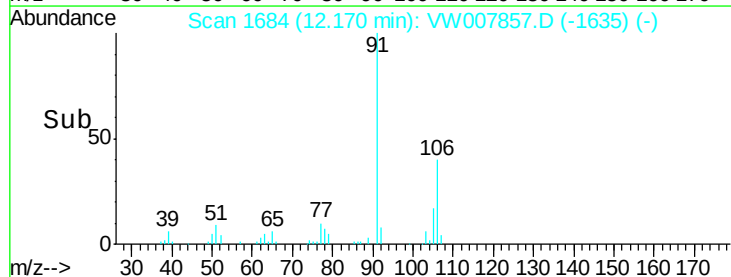
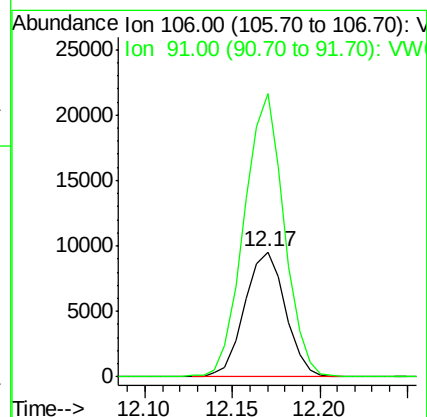
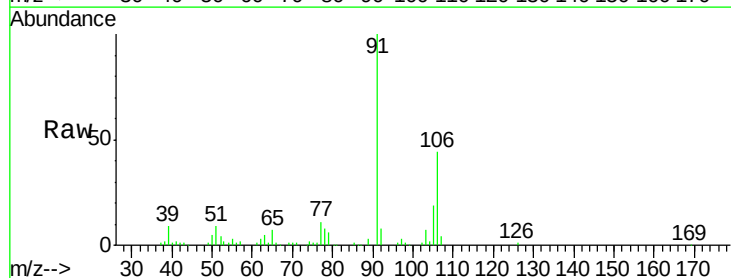
Instrument :
MSVOA_W
ClientSampleId :
P001-SD003-0612-01

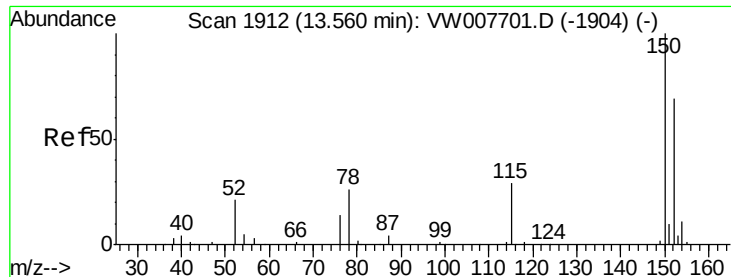
Tgt Ion:106 Resp: 225502
Ion Ratio Lower Upper
106 100
91 208.2 165.2 247.8



#69
o-Xylene
Concen: 12.798 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

Tgt Ion:106 Resp: 15415
Ion Ratio Lower Upper
106 100
91 222.8 110.5 331.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

P001-SD003-0612-01

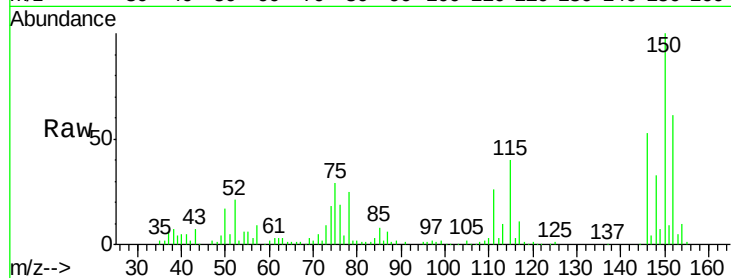
Tgt Ion:152 Resp: 27757

Ion Ratio Lower Upper

152 100

115 73.0 31.8 95.4

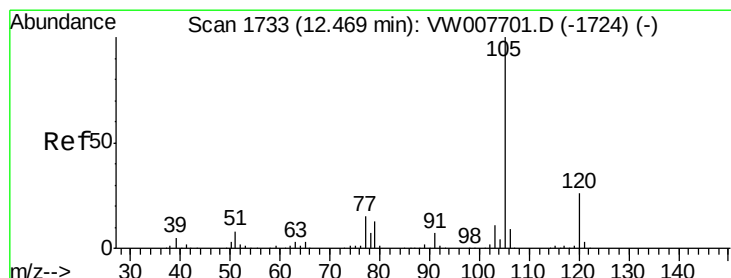
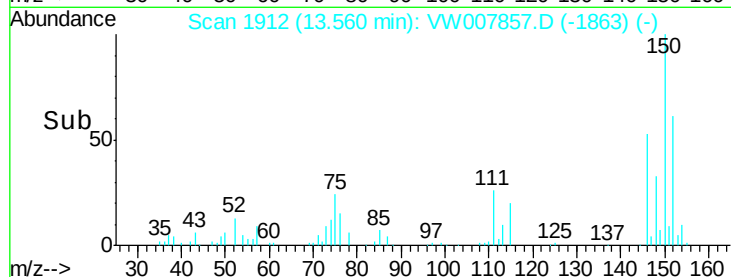
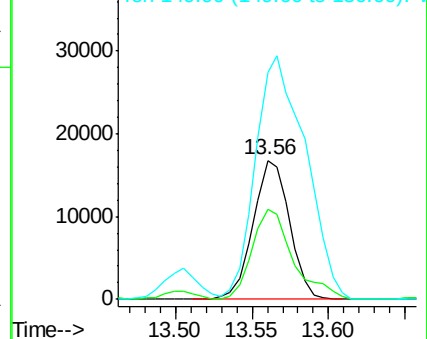
150 240.8 0.0 350.8



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



#73

Isopropylbenzene

Concen: 11.378 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007857.D

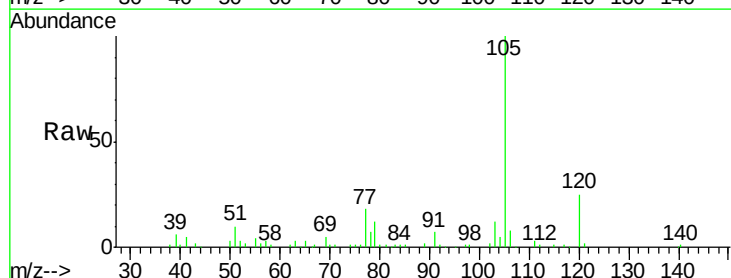
Acq: 22 Dec 2018 21:29

Tgt Ion:105 Resp: 23873

Ion Ratio Lower Upper

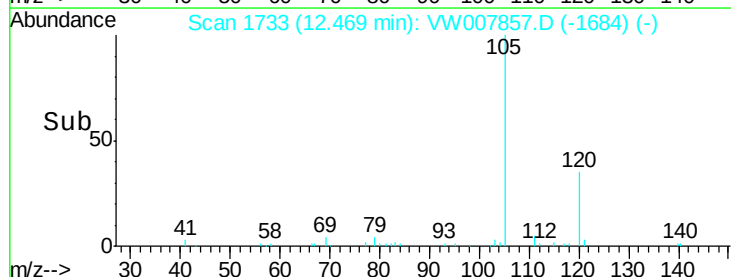
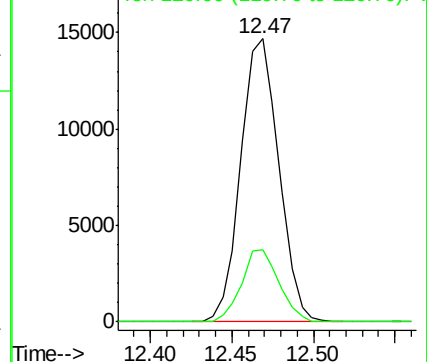
105 100

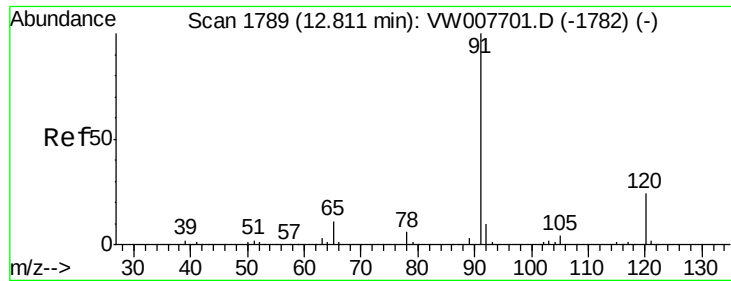
120 25.0 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

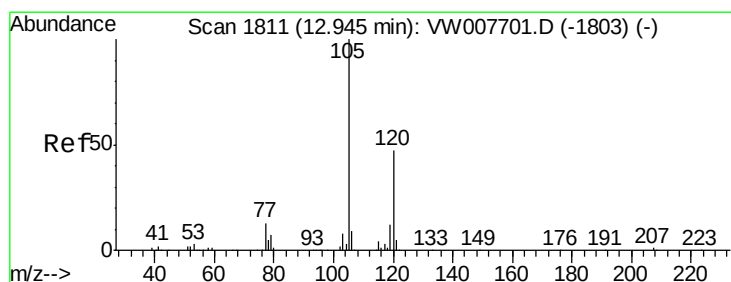
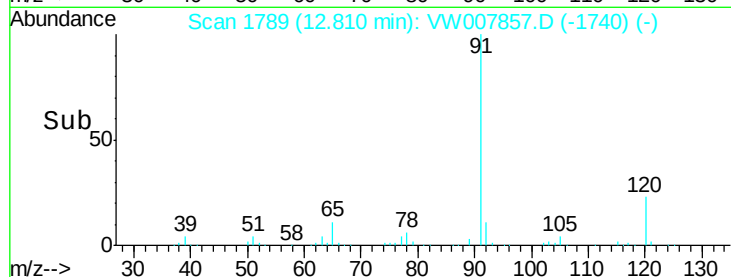
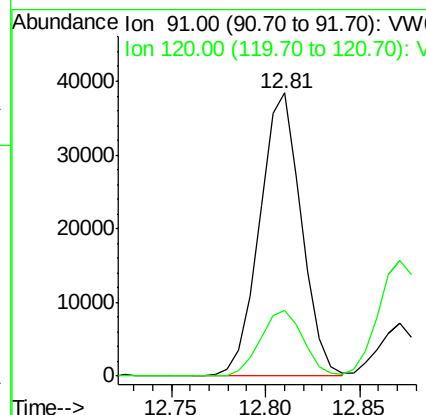
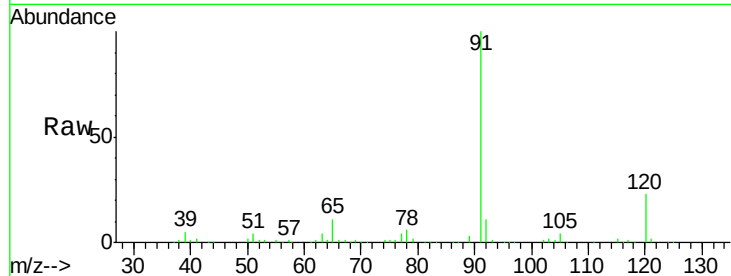




#78
n-propylbenzene
Concen: 24.107 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

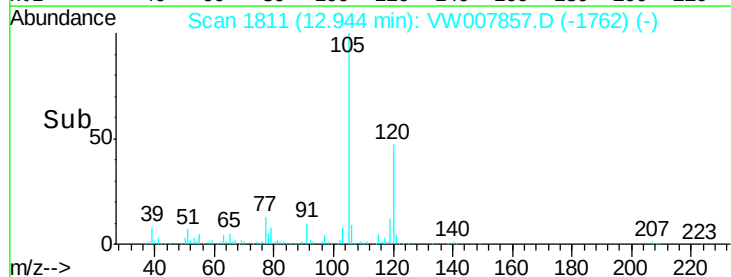
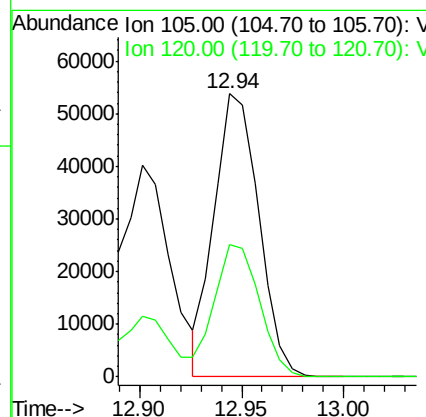
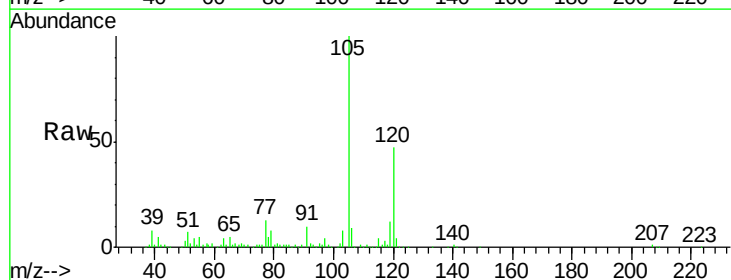
Instrument :
MSVOA_W
ClientSampleId :
P001-SD003-0612-01

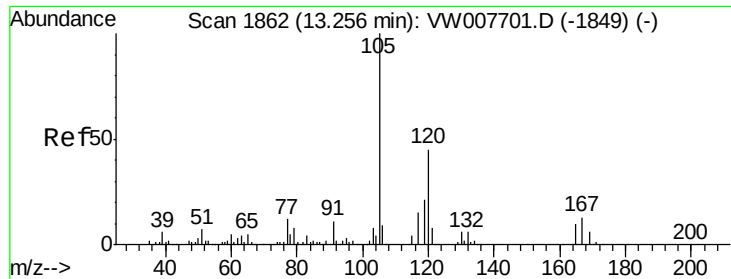
Tgt Ion: 91 Resp: 58878
Ion Ratio Lower Upper
91 100
120 24.0 11.9 35.7



#80
1,3,5-Trimethylbenzene
Concen: 45.111 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

Tgt Ion: 105 Resp: 81641
Ion Ratio Lower Upper
105 100
120 47.2 23.6 70.8

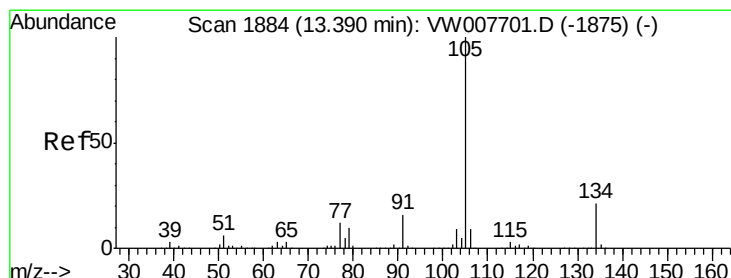
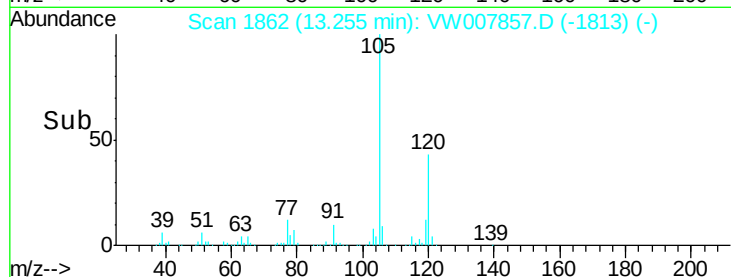
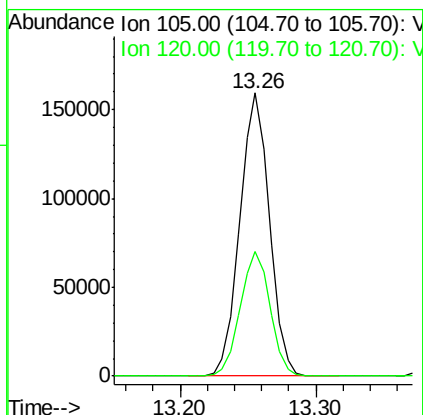
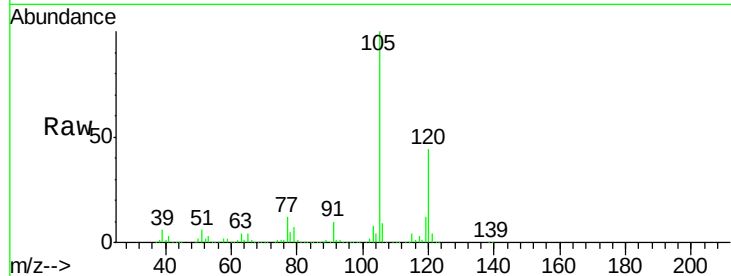




#84
 1,2,4-Trimethylbenzene
 Concen: 132.293 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007857.D
 Acq: 22 Dec 2018 21:29

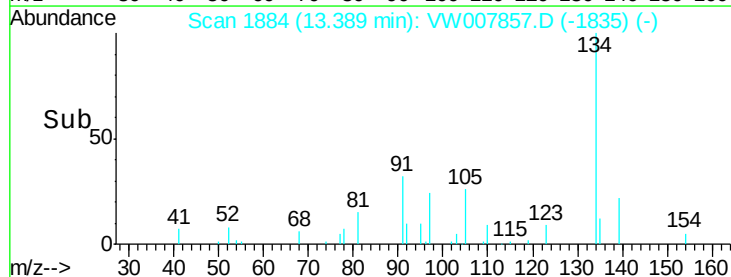
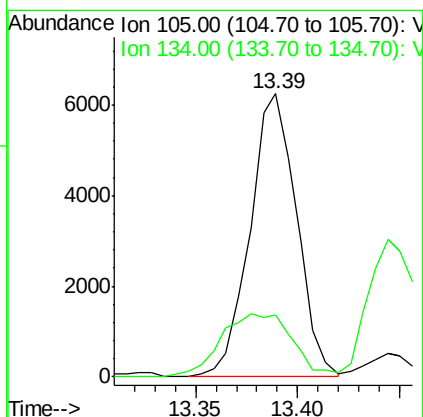
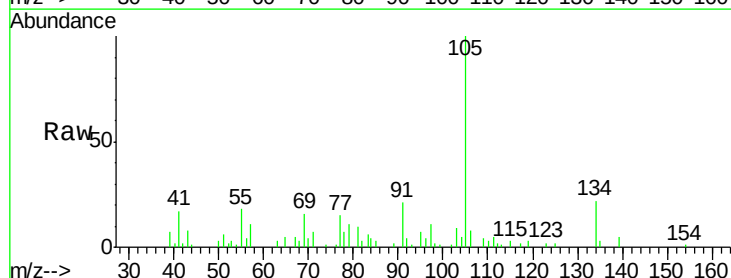
Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD003-0612-01

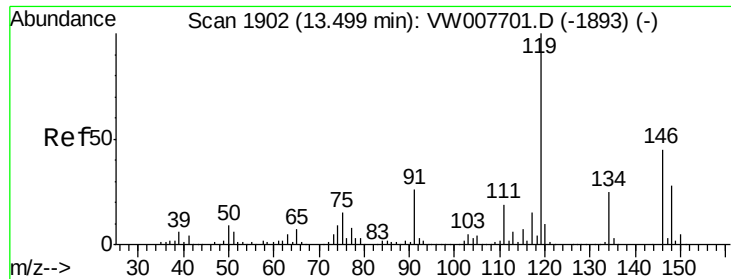
Tgt Ion:105 Resp: 241590
 Ion Ratio Lower Upper
 105 100
 120 44.4 22.0 66.0



#85
 sec-Butylbenzene
 Concen: 4.539 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007857.D
 Acq: 22 Dec 2018 21:29

Tgt Ion:105 Resp: 9934
 Ion Ratio Lower Upper
 105 100
 134 34.2 10.2 30.4#

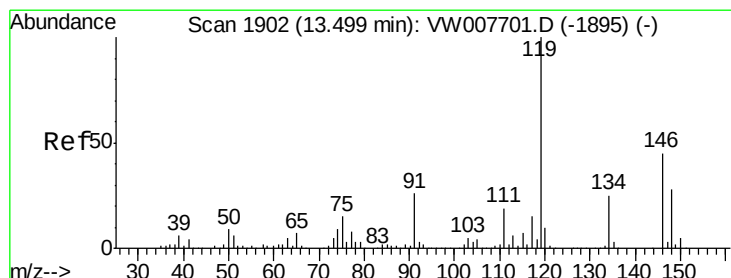
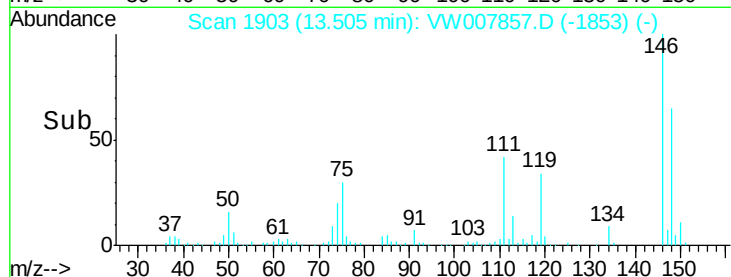
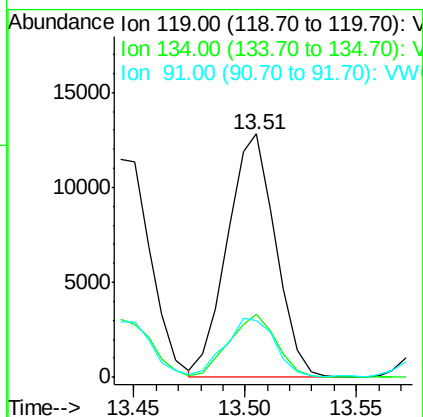
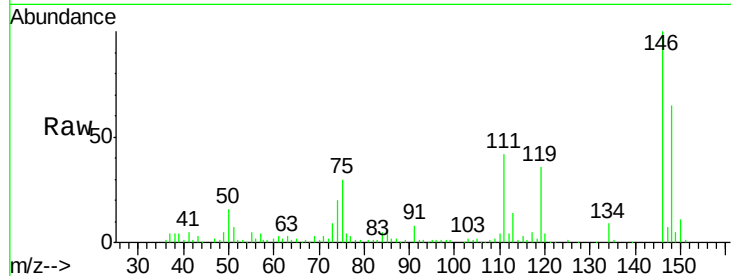




#86
 p-Isopropyltoluene
 Concen: 9.704 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.01 min
 Lab File: VW007857.D
 Acq: 22 Dec 2018 21:29

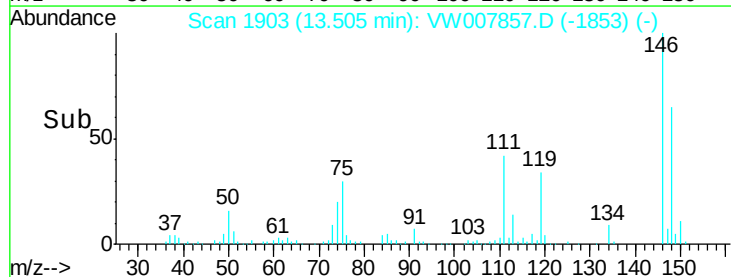
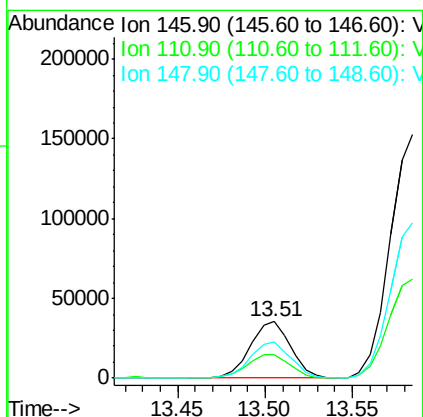
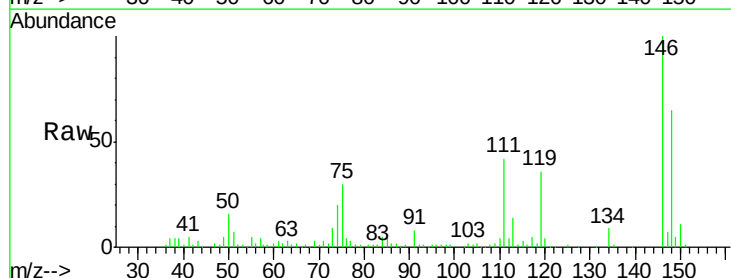
Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD003-0612-01

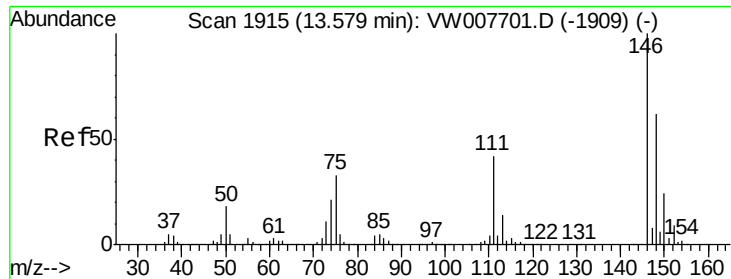
Tgt Ion:119 Resp: 19312
 Ion Ratio Lower Upper
 119 100
 134 25.4 13.0 39.0
 91 25.2 12.8 38.4



#87
 1,3-Dichlorobenzene
 Concen: 59.314 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.01 min
 Lab File: VW007857.D
 Acq: 22 Dec 2018 21:29

Tgt Ion:146 Resp: 56627
 Ion Ratio Lower Upper
 146 100
 111 44.4 21.1 63.4
 148 64.6 32.1 96.5





#88

1,4-Dichlorobenzene

Concen: 252.659 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

Instrument :

MSVOA_W

ClientSampleId :

P001-SD003-0612-01

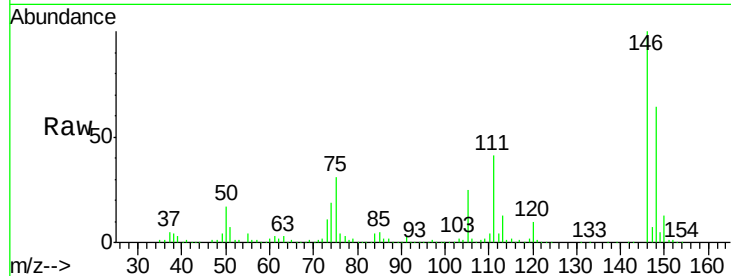
Tgt Ion:146 Resp: 241282

Ion Ratio Lower Upper

146 100

111 41.5 21.0 63.0

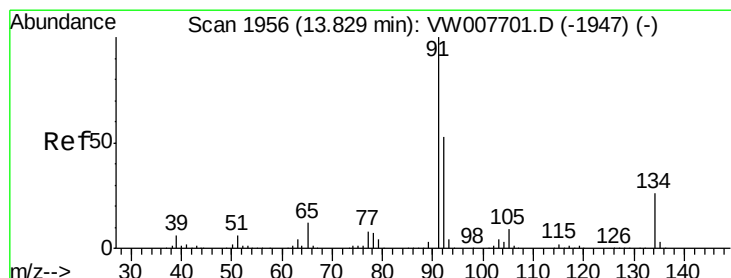
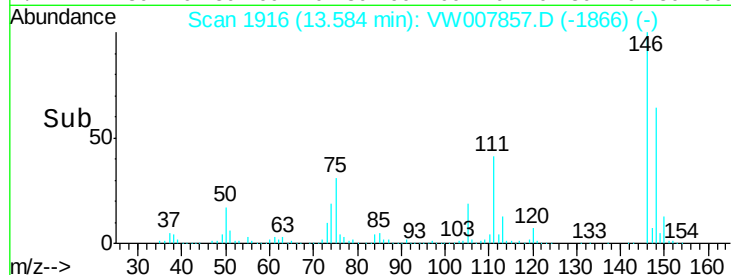
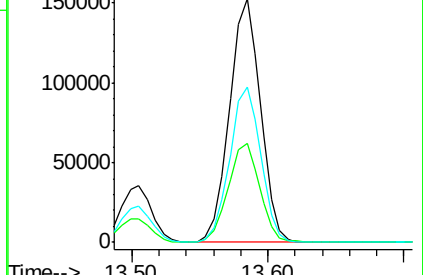
148 64.2 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 7.050 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW007857.D

Acq: 22 Dec 2018 21:29

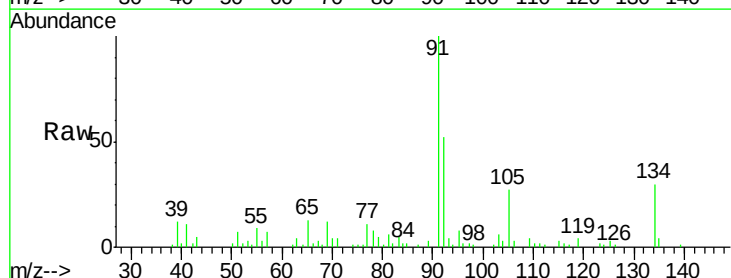
Tgt Ion: 91 Resp: 12863

Ion Ratio Lower Upper

91 100

92 64.0 26.4 79.2

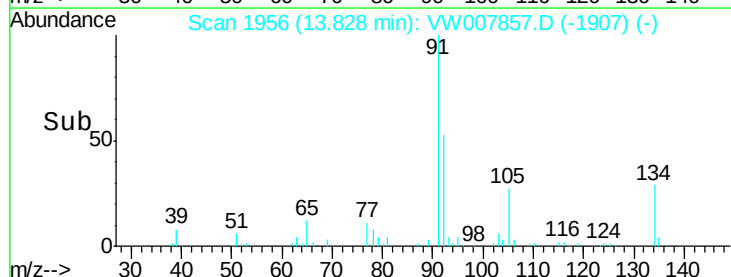
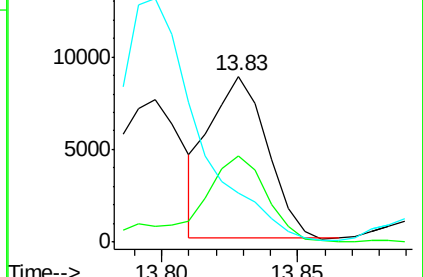
134 0.0 13.7 41.0#

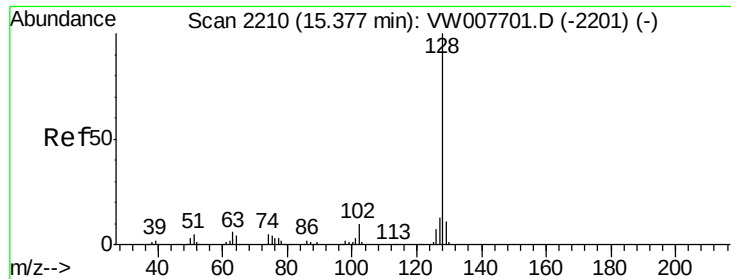


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V

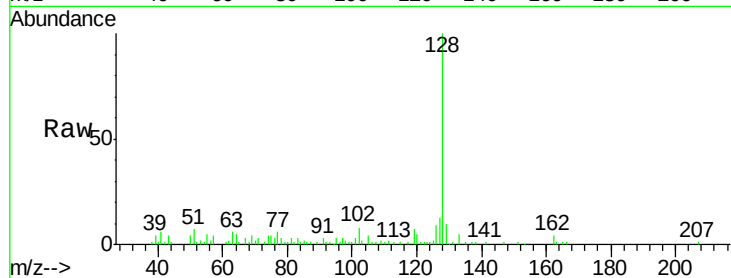




#95
Naphthalene
Concen: 22.550 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW007857.D
Acq: 22 Dec 2018 21:29

Instrument :
MSVOA_W
ClientSampleId :
P001-SD003-0612-01

Tgt Ion:128 Resp: 24737
Ion Ratio Lower Upper
128 100
127 16.1 10.7 16.1#
129 11.2 8.8 13.2



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

