

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062318\
 Data File : VW003493.D
 Acq On : 24 Jun 2018 07:05
 Operator : SY/AP
 Sample : J3670-13
 Misc : 5.74G/5ML/MSVOA W/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB477-23-25-180621

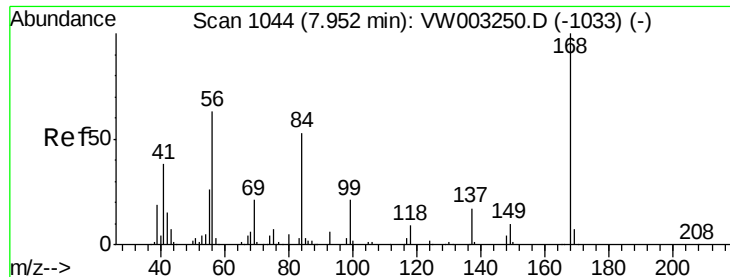
Quant Time: Jun 25 05:14:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 05:18:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	174718	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	318196	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	295504	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	151224	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	122071	64.50	ug/l	0.00
Spiked Amount			Recovery	=	129.00%	
35) Dibromofluoromethane	7.89	113	104694	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
50) Toluene-d8	10.33	98	377589	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
62) 4-Bromofluorobenzene	12.62	95	152806	55.08	ug/l	0.00
Spiked Amount			Recovery	=	110.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.36	62	84260	43.31	ug/l	98
16) Acetone	4.15	43	32531	81.96	ug/l	99
17) Carbon Disulfide	4.37	76	25688	5.49	ug/l	97
20) Methylene Chloride	4.92	84	21033	9.50	ug/l	95
25) 2-Butanone	7.19	43	8741	17.71	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	54141	28.63	ug/l	93
39) Methylcyclohexane	9.34	83	34978	9.84	ug/l	96
40) Benzene	8.33	78	505431	59.67	ug/l	98
51) 4-Methyl-2-Pentanone	10.22	43	22682	17.61	ug/l	98
52) Toluene	10.39	92	515462	94.90	ug/l	98
65) Chlorobenzene	11.66	112	4091750	664.93	ug/l	100
67) Ethyl Benzene	11.74	91	228928	20.99	ug/l	98
68) m/p-Xylenes	11.84	106	220433	53.16	ug/l	100
69) o-Xylene	12.17	106	52359	13.62	ug/l	97
73) Isopropylbenzene	12.47	105	106870	10.16	ug/l	99
78) n-propylbenzene	12.81	91	262205	20.36	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	787325	89.18	ug/l	99
83) tert-Butylbenzene	13.21	119	75071	9.98	ug/l	96
84) 1,2,4-Trimethylbenzene	13.26	105	2182225	240.28	ug/l	100
85) sec-Butylbenzene	13.39	105	229837	20.55	ug/l #	41
86) p-Isopropyltoluene	13.51	119	200857	20.36	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	87682	17.42	ug/l	97
88) 1,4-Dichlorobenzene	13.59	146	640704	128.07	ug/l	99
89) n-Butylbenzene	13.83	91	181112	18.84	ug/l #	71
91) 1,2-Dichlorobenzene	13.88	146	275985	62.61	ug/l	98
95) Naphthalene	15.38	128	382461	72.86	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

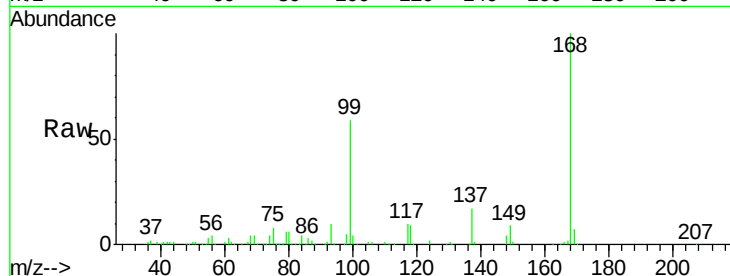
WP021SB477-23-25-180621

Tot Ion:168 Resp: 174718

Ion Ratio Lower Upper

168 100

99 59.0 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

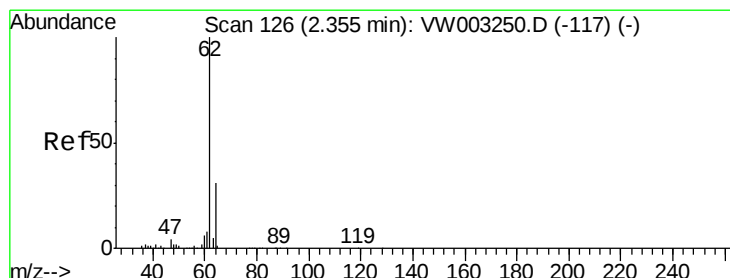
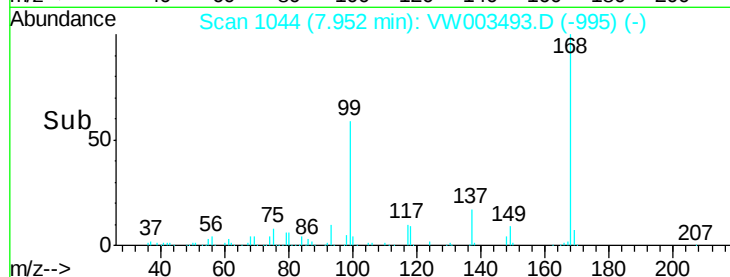
40000

20000

0

7.90 8.00 8.10

Time-->



#4

Vinyl Chloride

Concen: 43.31 ug/l

RT: 2.36 min Scan# 127

Delta R.T. 0.01 min

Lab File: VW003493.D

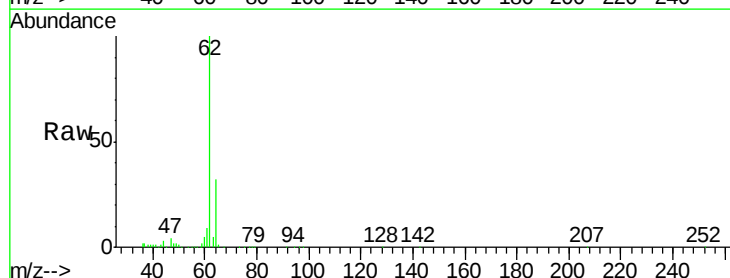
Acq: 24 Jun 2018 07:05

Tgt Ion: 62 Resp: 84260

Ion Ratio Lower Upper

62 100

64 32.1 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

50000

40000

30000

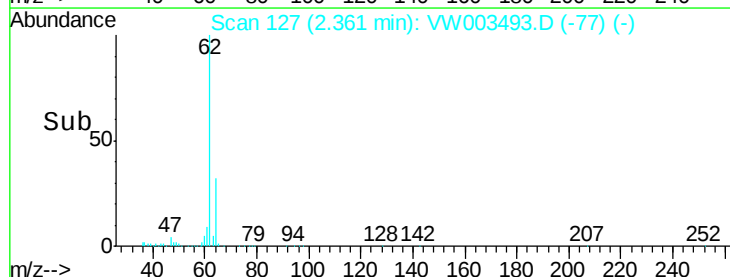
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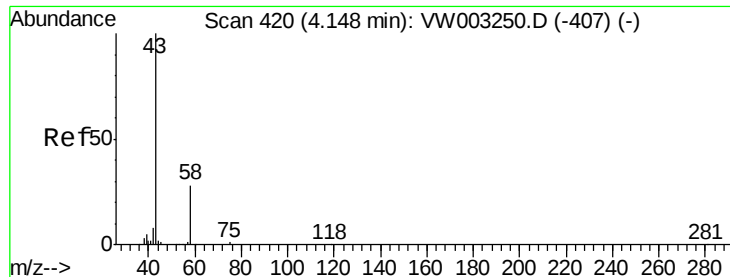
10000

0

2.25 2.30 2.35 2.40 2.45

Time-->





#16

Acetone

Concen: 81.96 ug/l

RT: 4.15 min Scan# 421

Delta R.T. 0.01 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

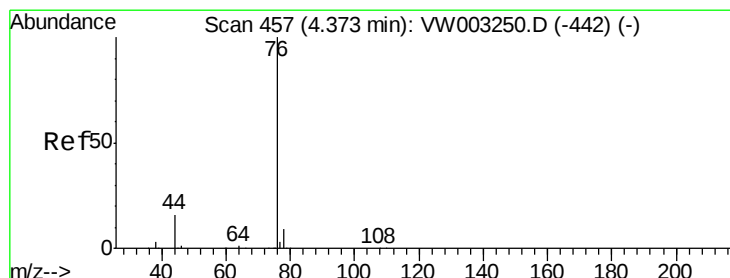
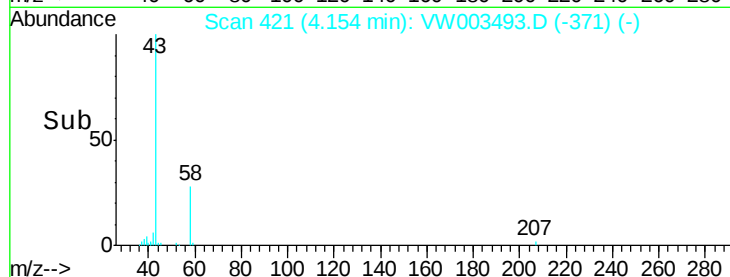
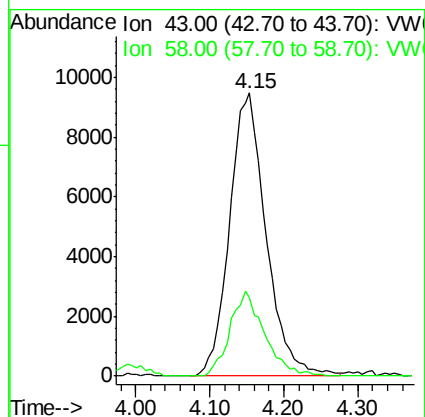
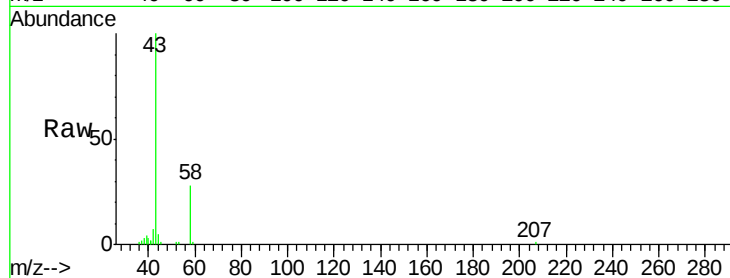
WP021SB477-23-25-180621

Tot Ion: 43 Resp: 32531

Ion Ratio Lower Upper

43 100

58 27.8 22.6 34.0



#17

Carbon Disulfide

Concen: 5.49 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.00 min

Lab File: VW003493.D

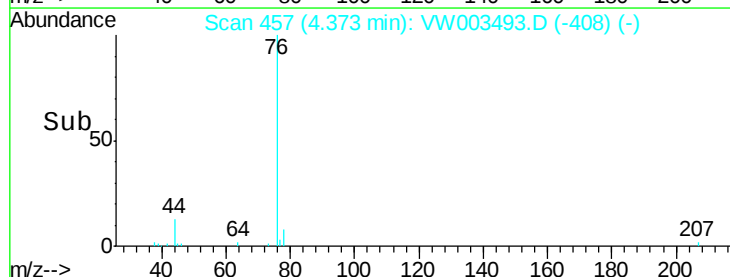
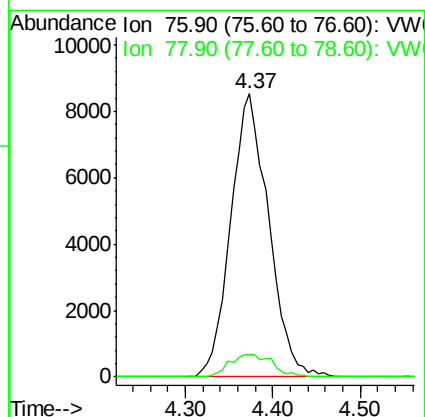
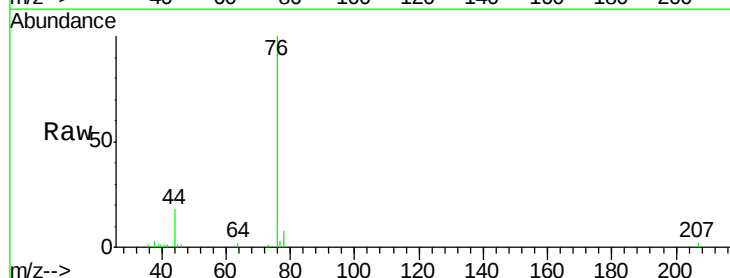
Acq: 24 Jun 2018 07:05

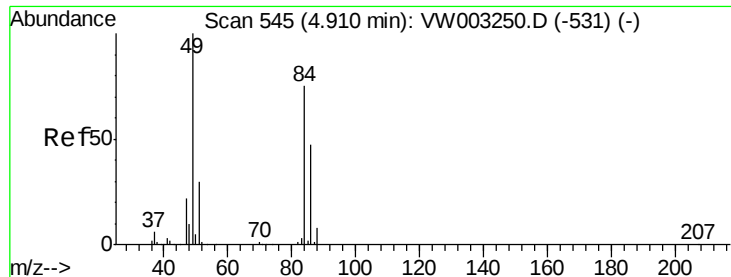
Tgt Ion: 76 Resp: 25688

Ion Ratio Lower Upper

76 100

78 7.8 7.1 10.7

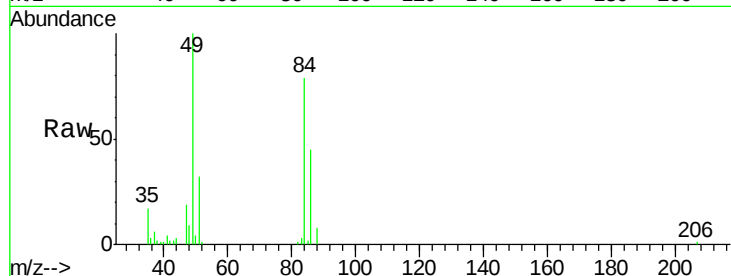




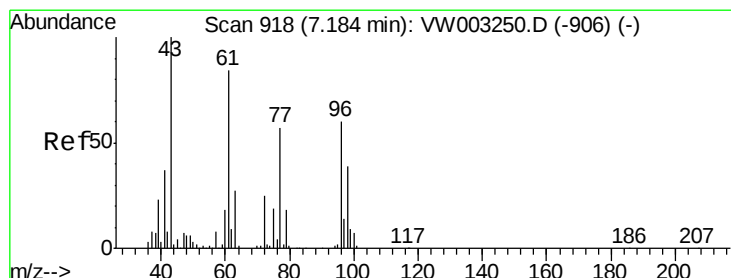
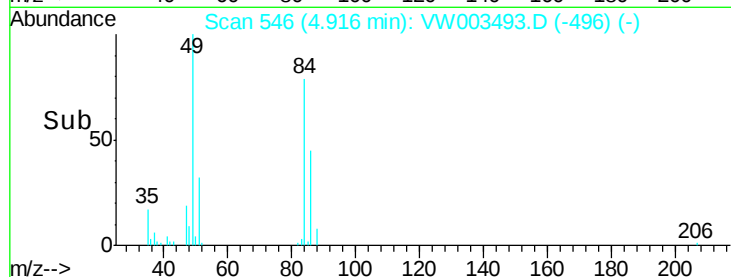
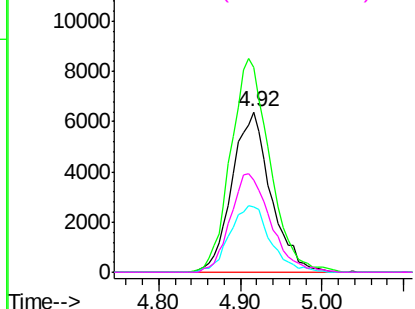
#20
Methvlene Chloride
Concen: 9.50 ug/l
RT: 4.92 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

Instrument :
MSVOA_W
ClientSampleId :
WP021SB477-23-25-180621

Tot Ion: 84 Resp: 21033
Ion Ratio Lower Upper
84 100
49 127.3 106.3 159.5
51 40.5 32.0 48.0
86 57.6 49.9 74.9

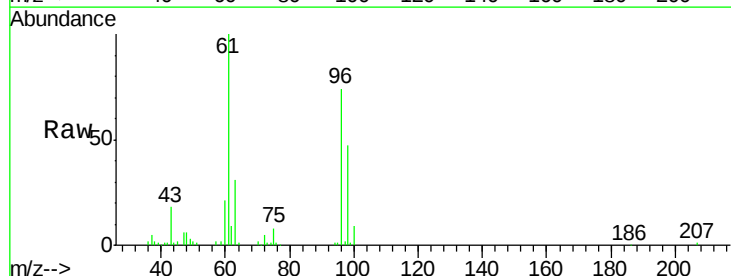


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

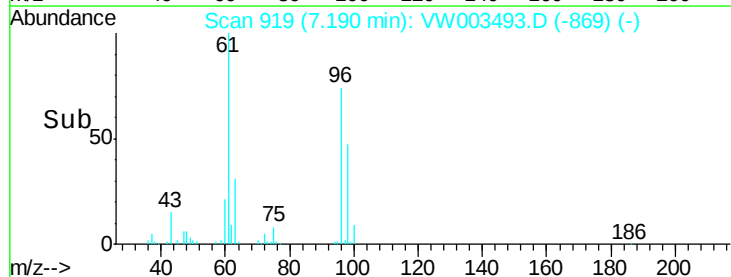
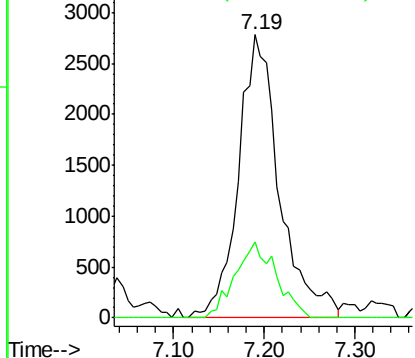


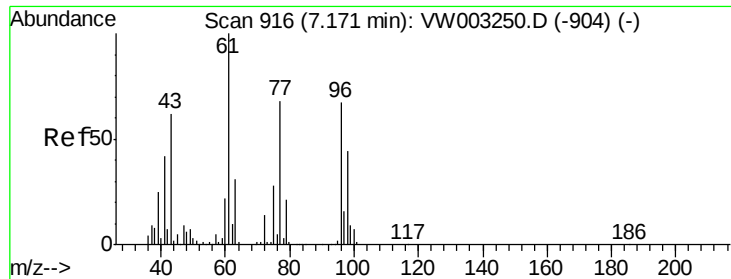
#25
2-Butanone
Concen: 17.71 ug/l
RT: 7.19 min Scan# 919
Delta R.T. 0.01 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

Tgt Ion: 43 Resp: 8741
Ion Ratio Lower Upper
43 100
72 26.8 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#27

cis-1,2-Dichloroethene

Concen: 28.63 ug/l

RT: 7.17 min Scan# 916

Delta R.T. 0.00 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

WP021SB477-23-25-180621

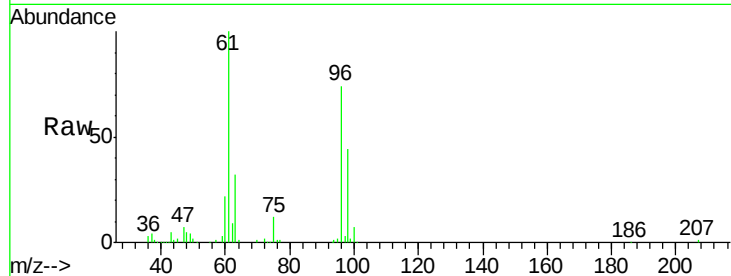
Tot Ion: 96 Resp: 54141

Ion Ratio Lower Upper

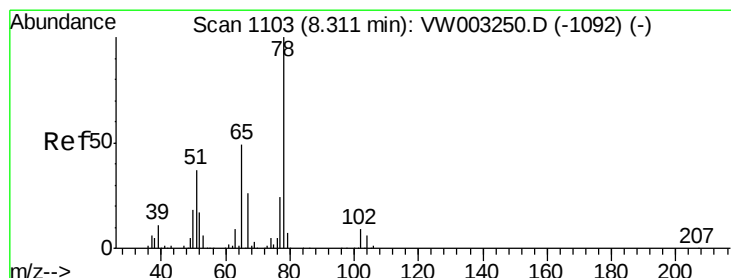
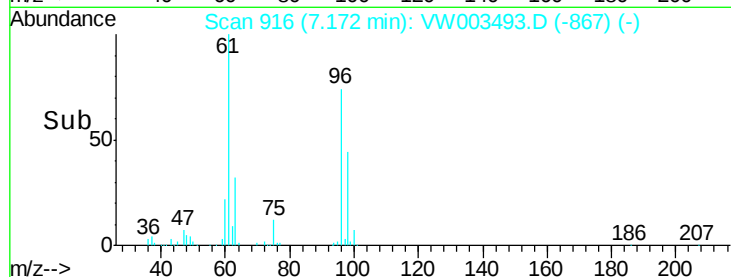
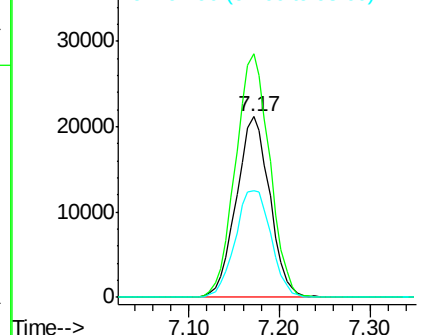
96 100

61 137.3 0.0 298.8

98 63.3 0.0 130.4



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#33

1,2-Dichloroethane-d4

Concen: 64.50 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VW003493.D

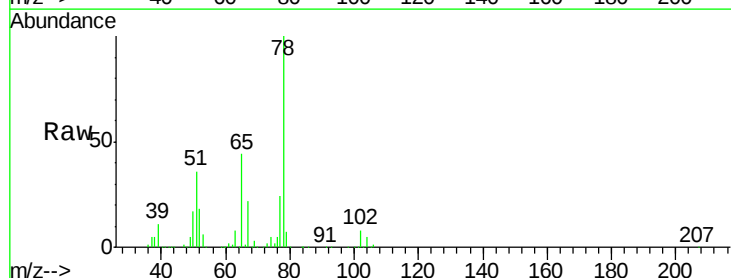
Acq: 24 Jun 2018 07:05

Tgt Ion: 65 Resp: 122071

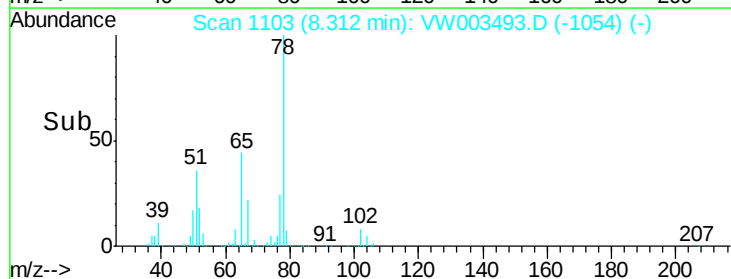
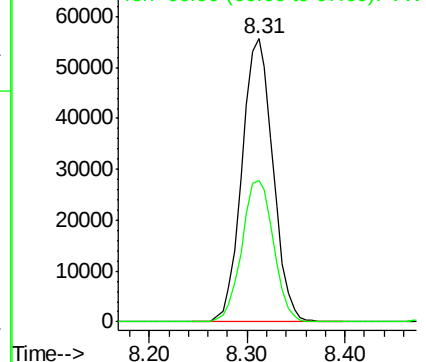
Ion Ratio Lower Upper

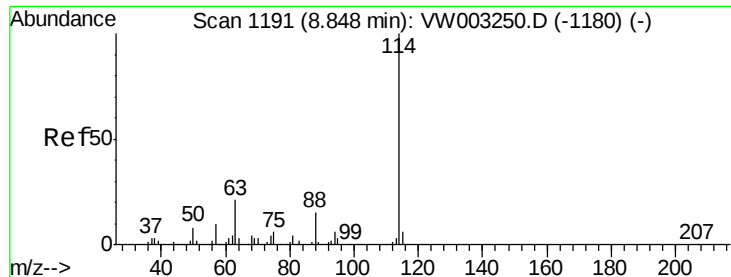
65 100

67 51.1 0.0 104.2



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

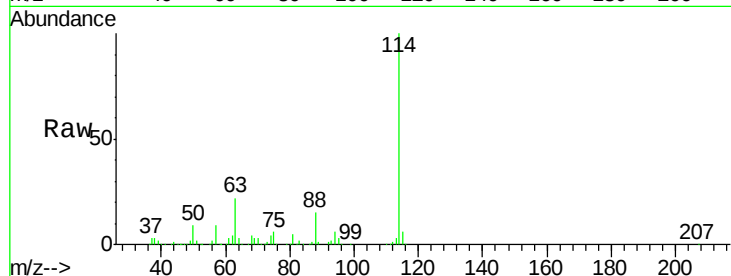




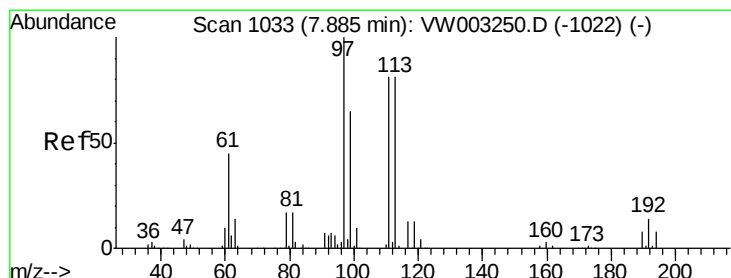
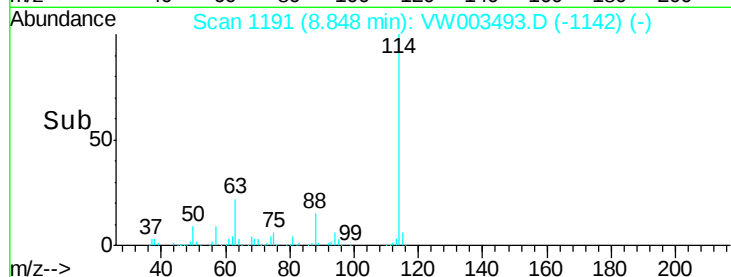
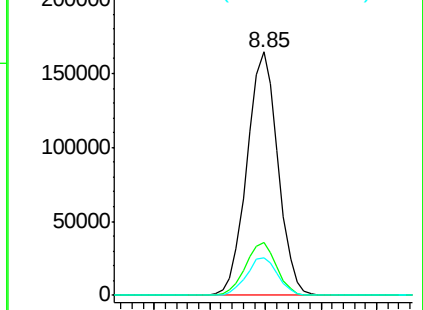
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB477-23-25-180621

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.0
88	15.5	0.0	29.6

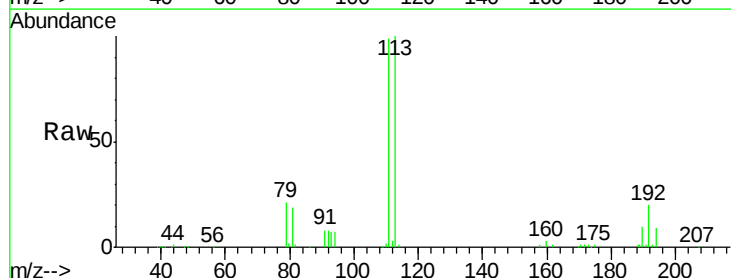


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

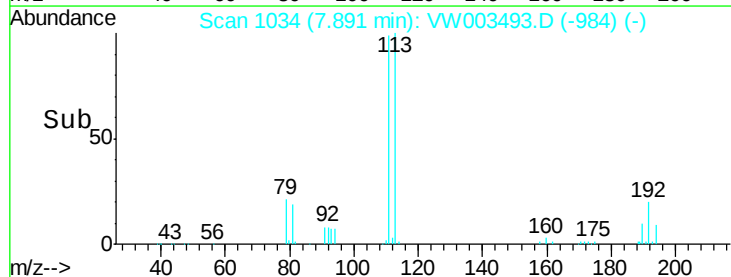
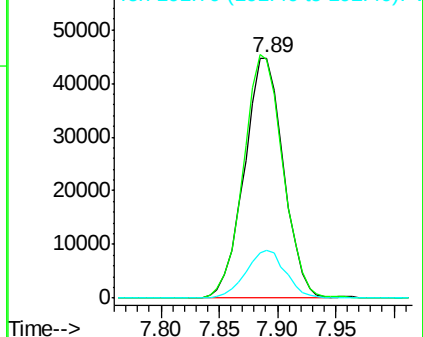


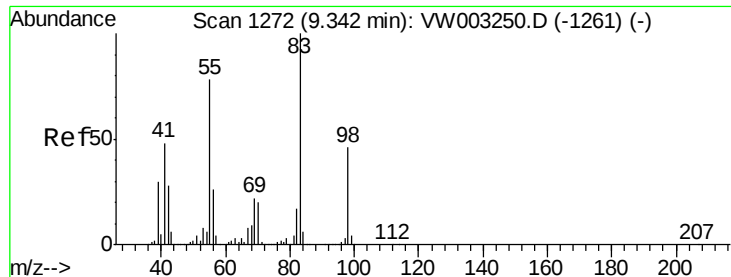
#35
 Dibromofluoromethane
 Concen: 52.95 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. 0.01 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.2
192	20.1	16.2	24.2



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

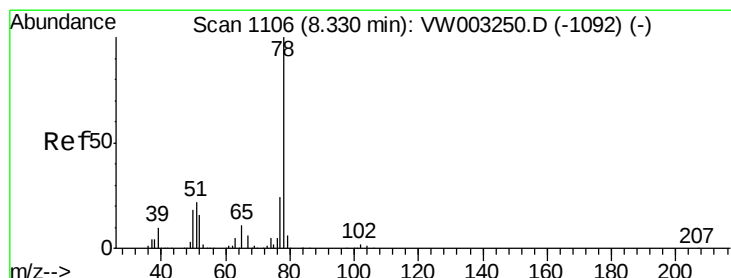
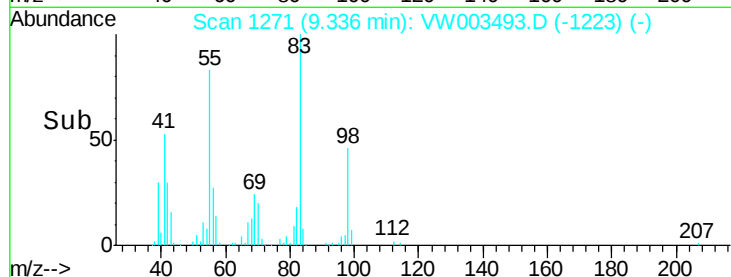
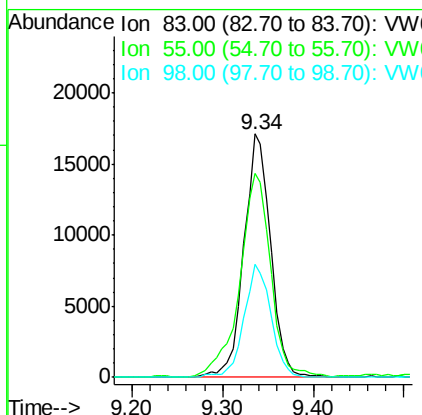
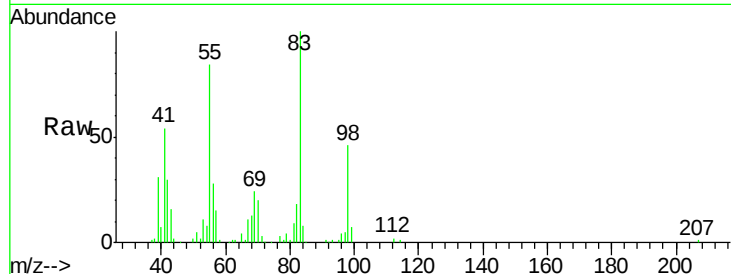




#39
Methvlcvclohexane
Concen: 9.84 ug/l
RT: 9.34 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

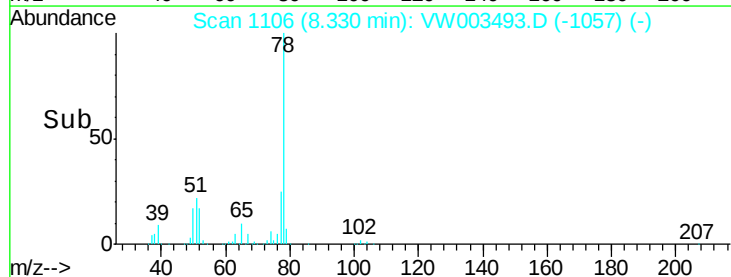
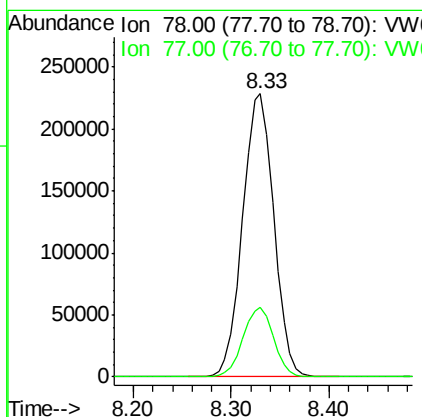
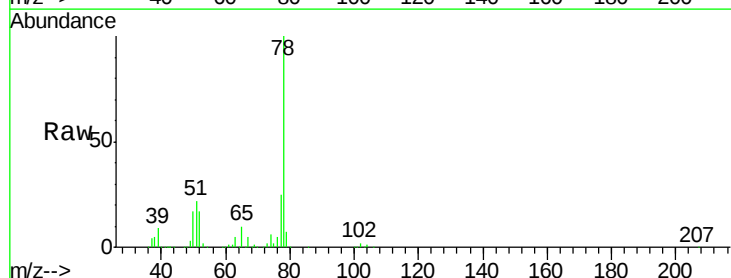
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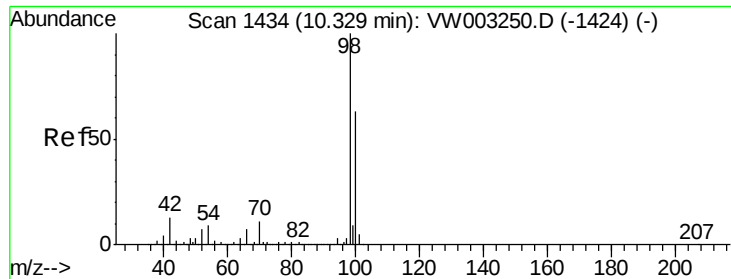
Tot Ion: 83 Resp: 34978
Ion Ratio Lower Upper
83 100
55 83.8 62.6 93.8
98 46.3 37.0 55.4



#40
Benzene
Concen: 59.67 ug/l
RT: 8.33 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

Tgt Ion: 78 Resp: 505431
Ion Ratio Lower Upper
78 100
77 24.8 19.0 28.6





#50

Toluene-d8

Concen: 48.16 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

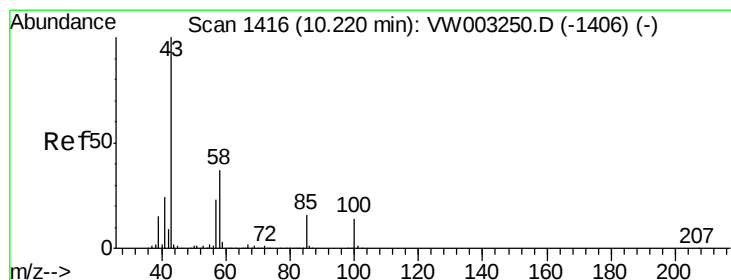
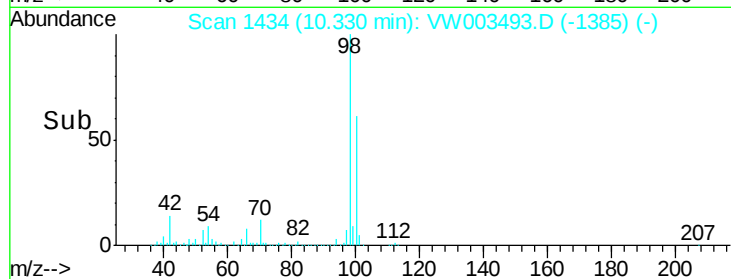
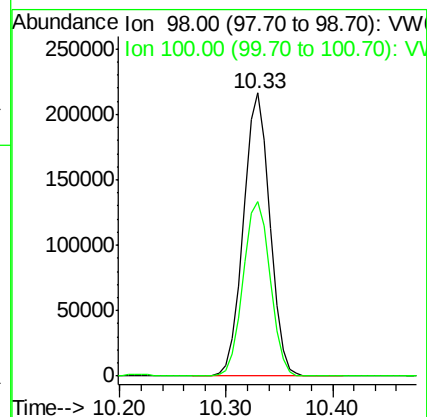
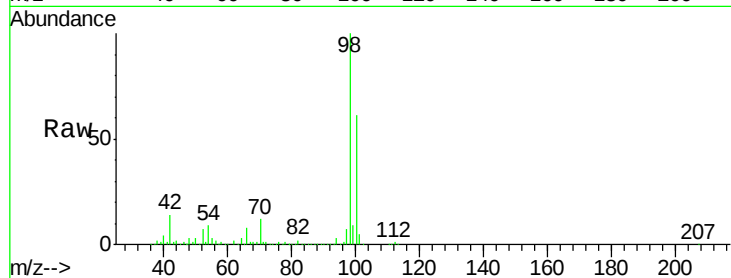
WP021SB477-23-25-180621

Tot Ion: 98 Resp: 377589

Ion Ratio Lower Upper

98 100

100 63.3 50.8 76.2



#51

4-Methyl-2-Pentanone

Concen: 17.61 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VW003493.D

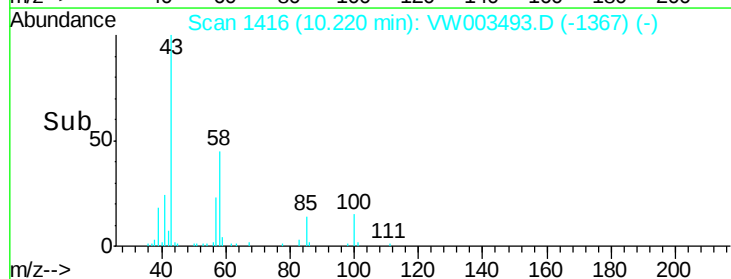
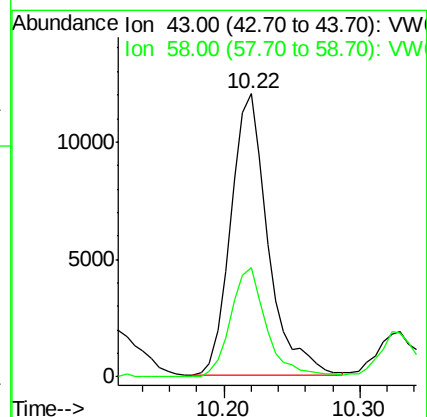
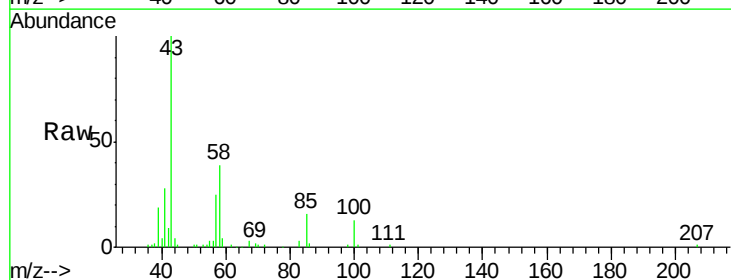
Acq: 24 Jun 2018 07:05

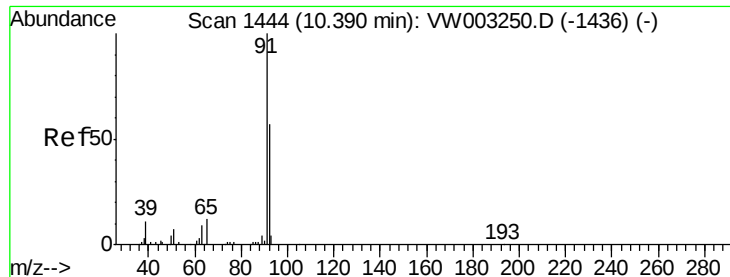
Tgt Ion: 43 Resp: 22682

Ion Ratio Lower Upper

43 100

58 37.6 29.0 43.4





#52

Toluene

Concen: 94.90 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

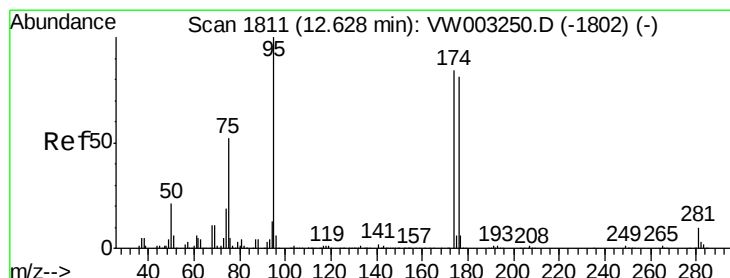
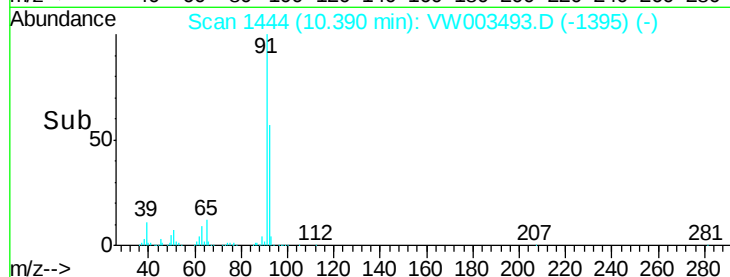
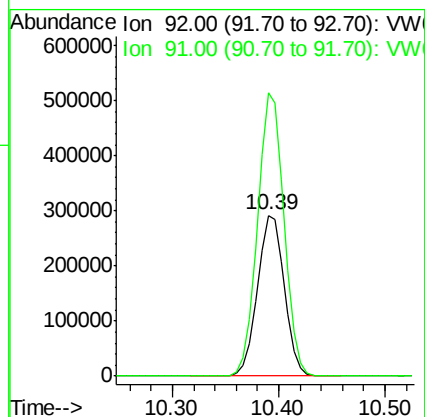
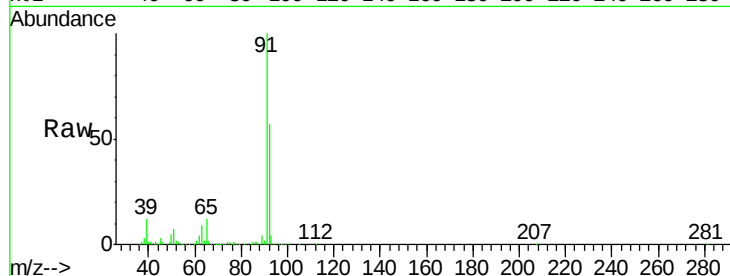
WP021SB477-23-25-180621

Tot Ion: 92 Resp: 515462

Ion Ratio Lower Upper

92 100

91 173.8 141.1 211.7



#62

4-Bromofluorobenzene

Concen: 55.08 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.01 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

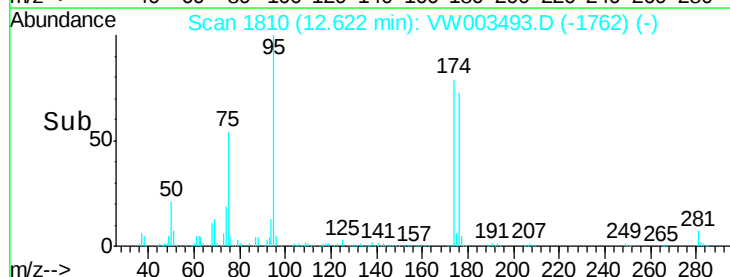
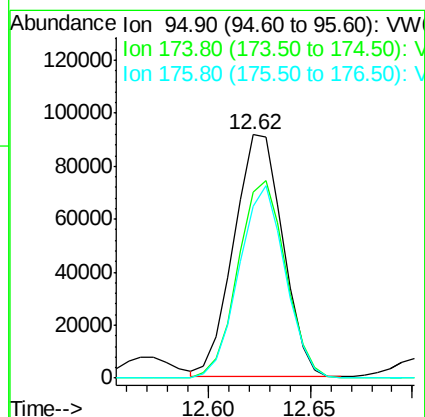
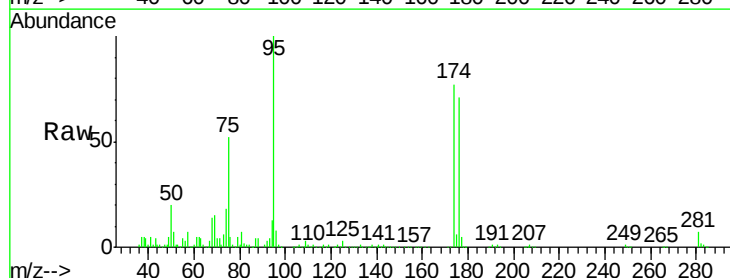
Tgt Ion: 95 Resp: 152806

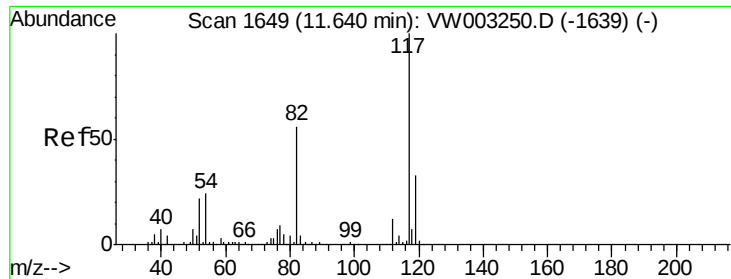
Ion Ratio Lower Upper

95 100

174 79.2 0.0 166.4

176 75.2 0.0 162.0

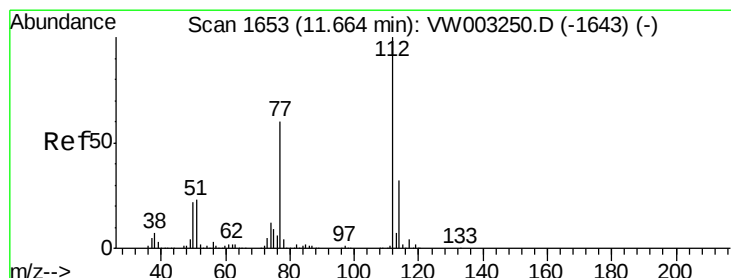
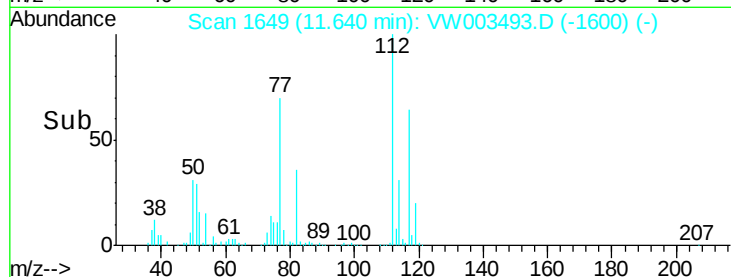
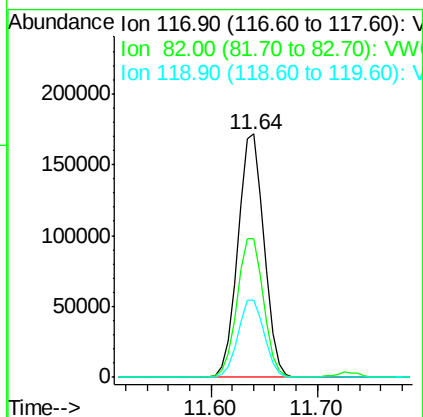
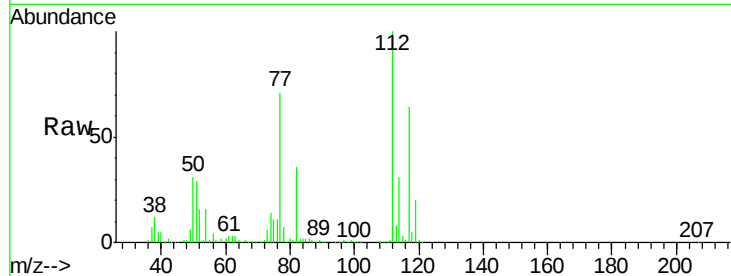




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

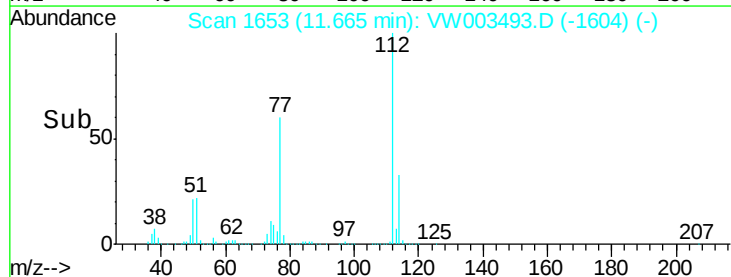
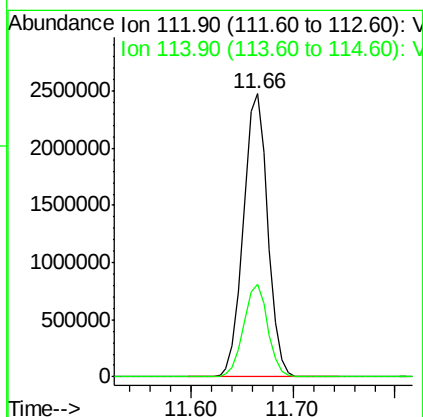
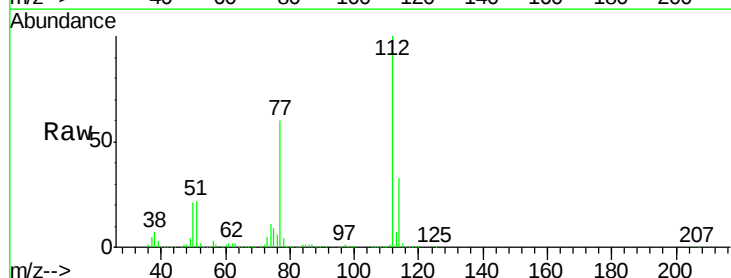
Instrument :
MSVOA_W
ClientSampleId :
WP021SB477-23-25-180621

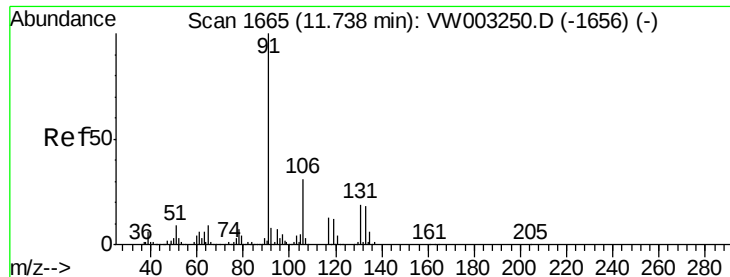
Tot Ion:117 Resp: 295504
Ion Ratio Lower Upper
117 100
82 56.6 44.6 67.0
119 31.8 26.7 40.1



#65
Chlorobenzene
Concen: 664.93 ug/l
RT: 11.66 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

Tgt Ion:112 Resp: 4091750
Ion Ratio Lower Upper
112 100
114 32.6 25.9 38.9

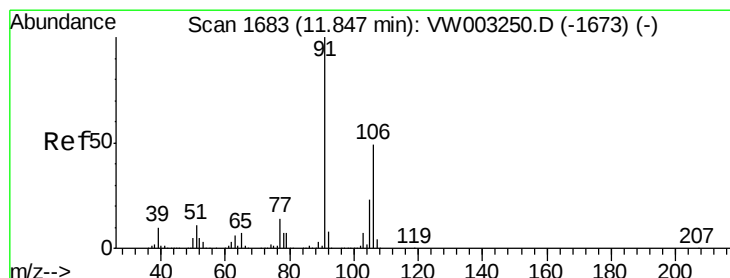
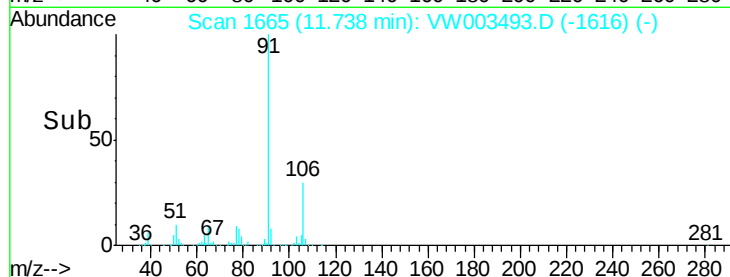
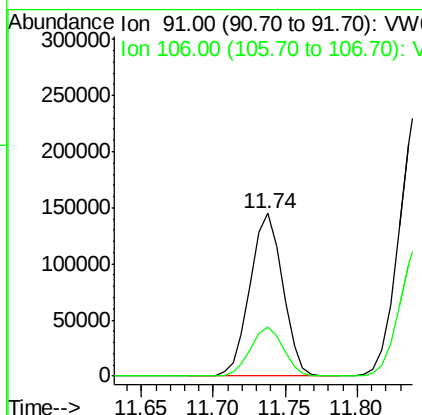
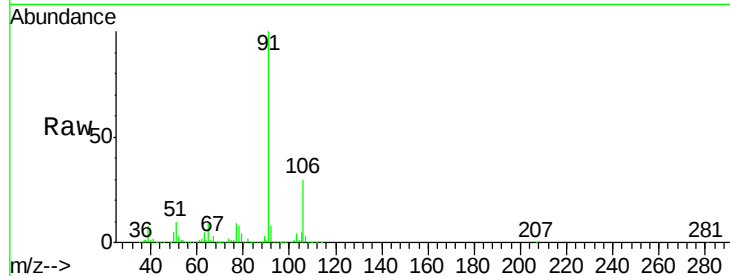




#67
Ethyl Benzene
Concen: 20.99 ug/l
RT: 11.74 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

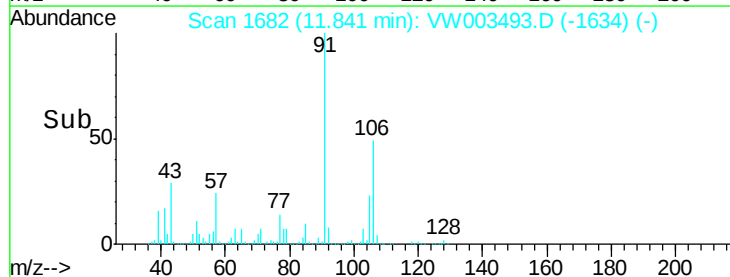
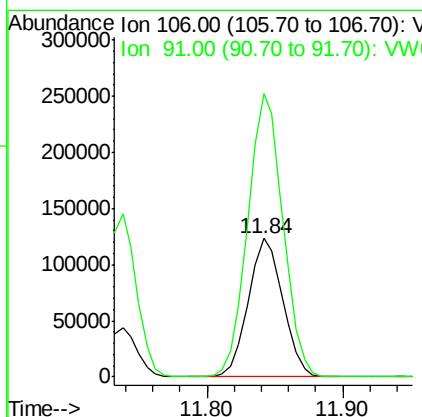
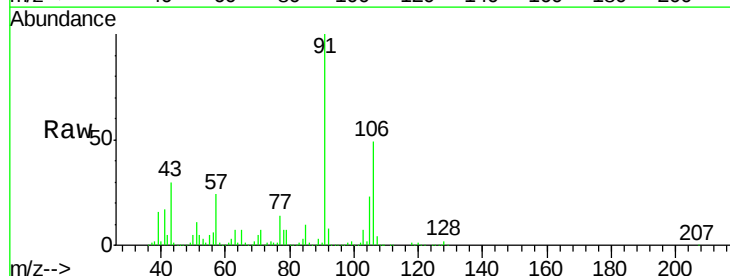
Instrument :
MSVOA_W
ClientSampleId :
WP021SB477-23-25-180621

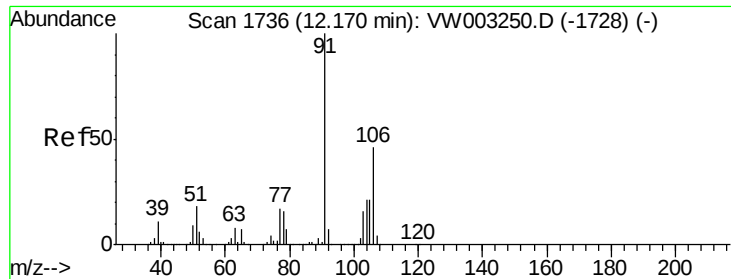
Tot Ion: 91 Resp: 228928
Ion Ratio Lower Upper
91 100
106 29.9 24.7 37.1



#68
m/p-Xylenes
Concen: 53.16 ug/l
RT: 11.84 min Scan# 1682
Delta R.T. -0.01 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

Tgt Ion: 106 Resp: 220433
Ion Ratio Lower Upper
106 100
91 206.8 165.4 248.0

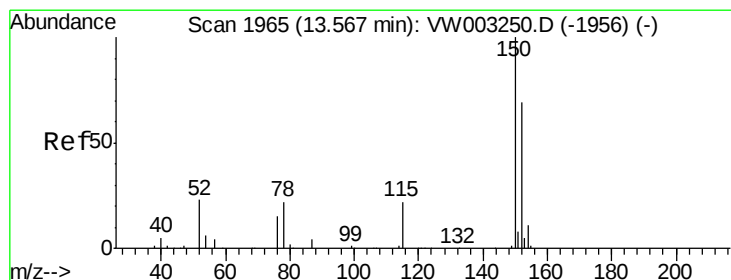
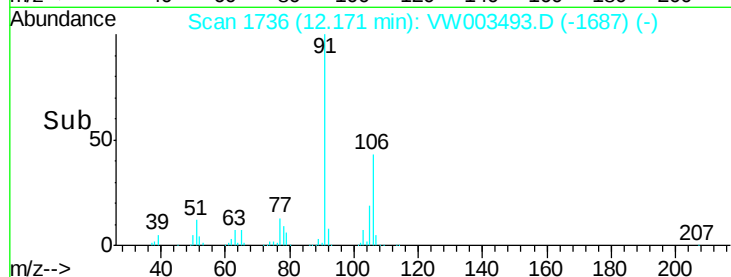
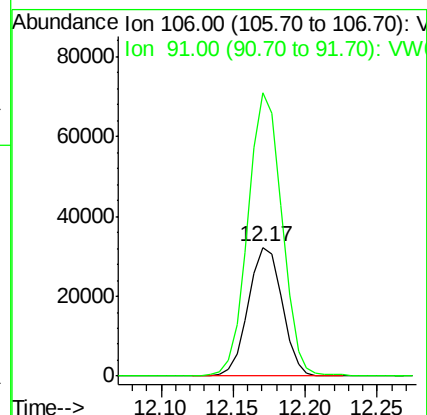
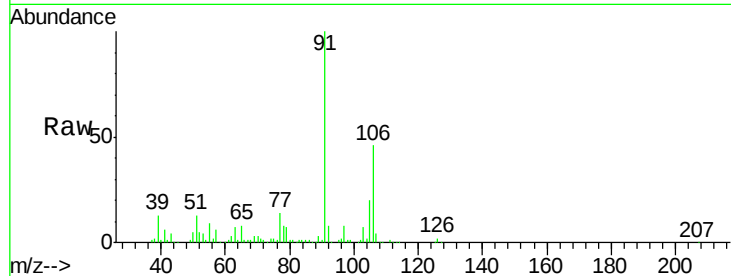




#69
o-Xylene
Concen: 13.62 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

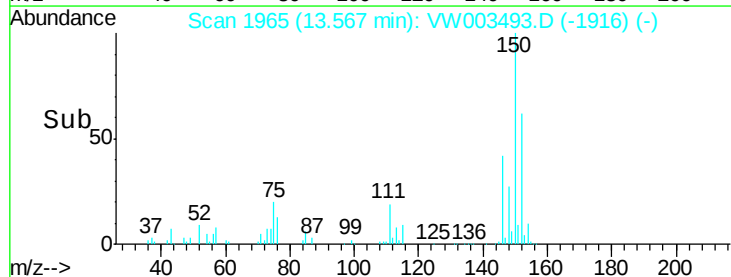
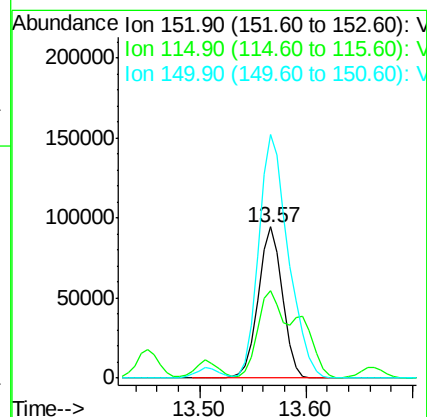
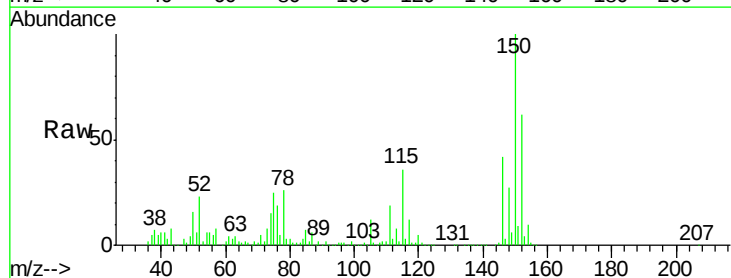
Instrument :
MSVOA_W
ClientSampleId :
WP021SB477-23-25-180621

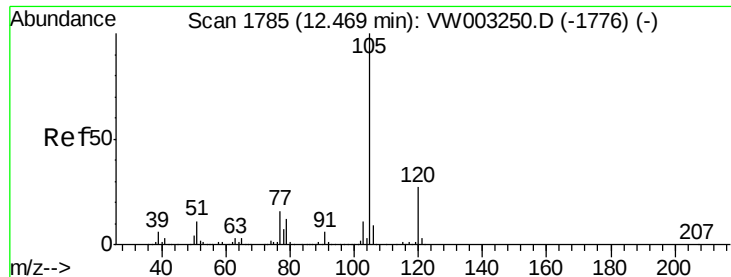
Tot Ion:106 Resp: 52359
Ion Ratio Lower Upper
106 100
91 222.6 108.6 325.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW003493.D
Acq: 24 Jun 2018 07:05

Tgt Ion:152 Resp: 151224
Ion Ratio Lower Upper
152 100
115 62.6 29.3 88.0
150 195.6 0.0 349.6





#73

Isopropylbenzene

Concen: 10.16 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. 0.00 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

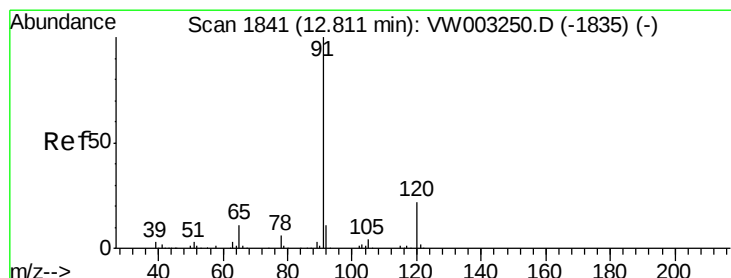
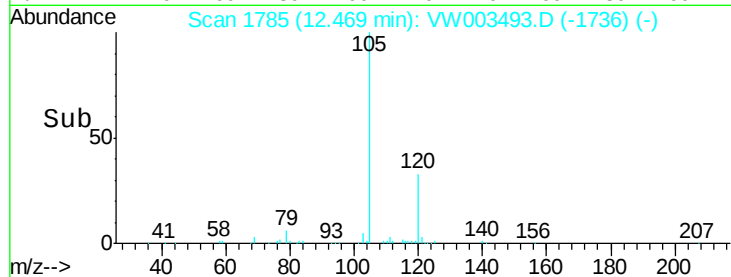
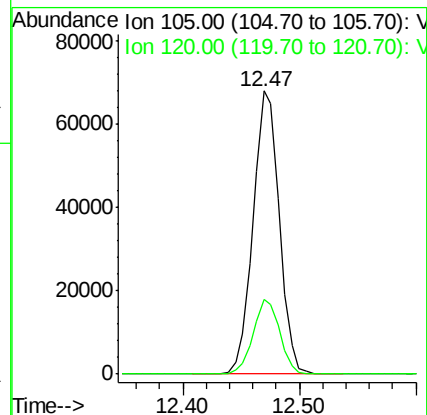
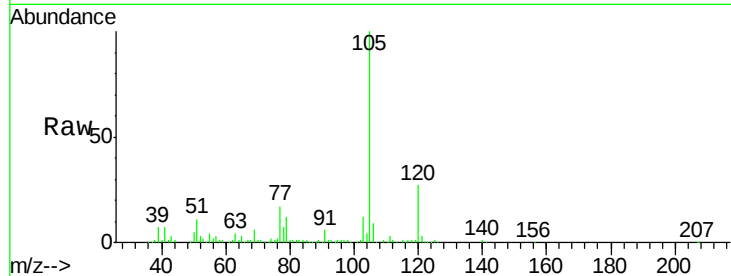
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Tot Ion:105 Resp: 106870

Ion Ratio Lower Upper

105 100

120 26.8 13.2 39.6



#78

n-propylbenzene

Concen: 20.36 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VW003493.D

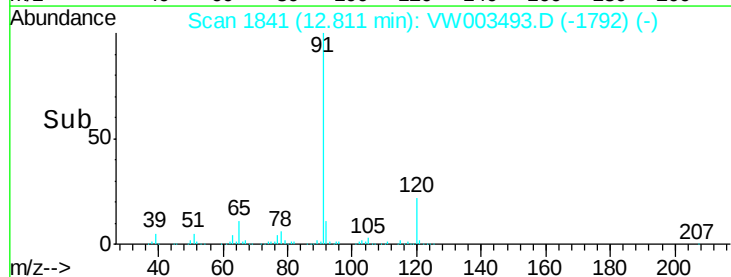
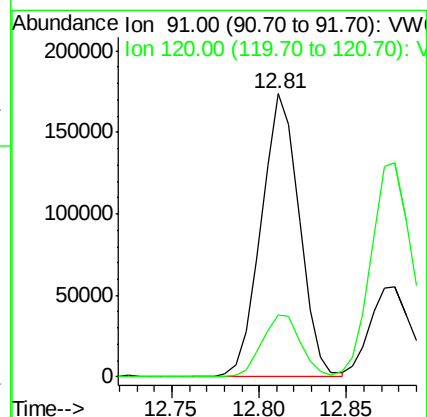
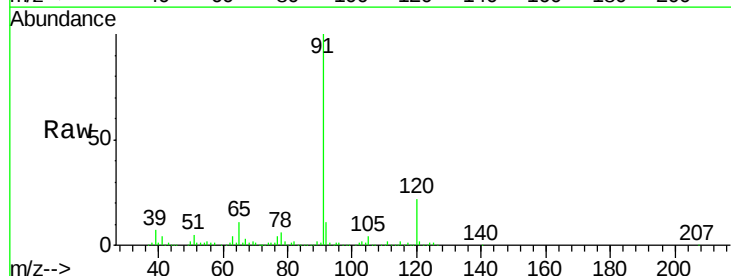
Acq: 24 Jun 2018 07:05

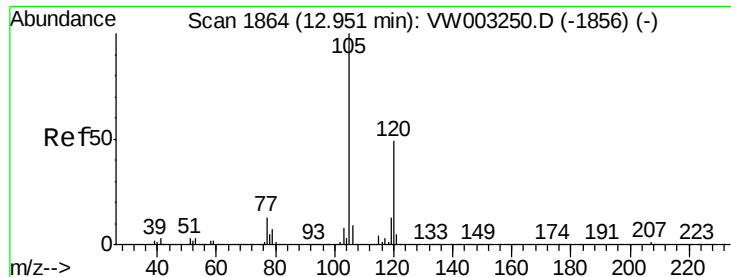
Tgt Ion: 91 Resp: 262205

Ion Ratio Lower Upper

91 100

120 22.4 11.3 33.8

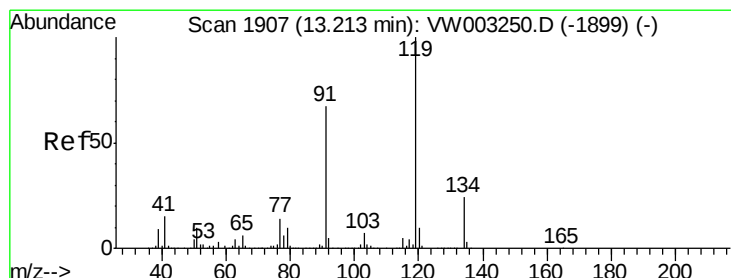
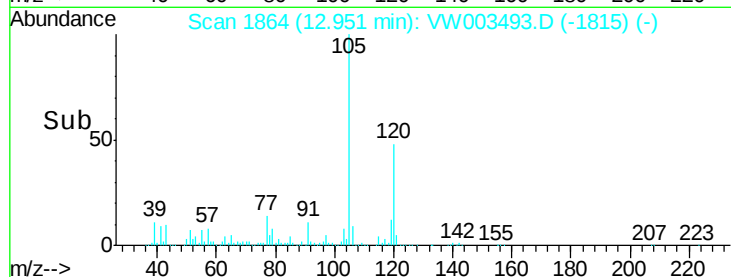
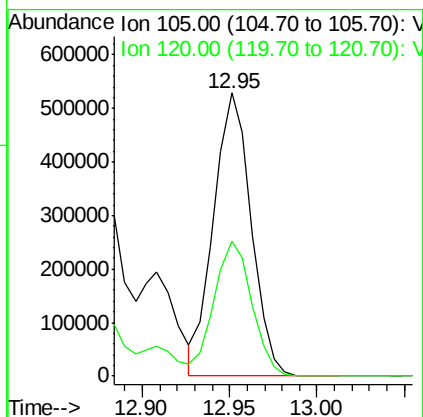
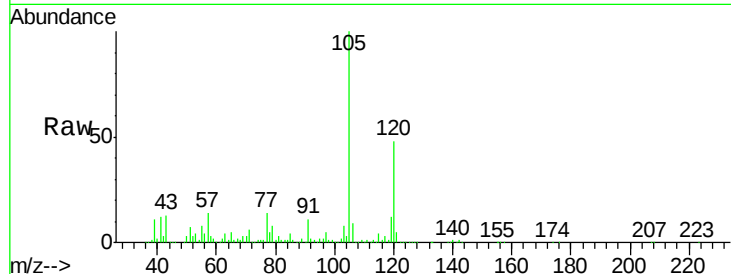




#80
 1,3,5-Trimethylbenzene
 Concen: 89.18 ug/l
 RT: 12.95 min Scan# 1864
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

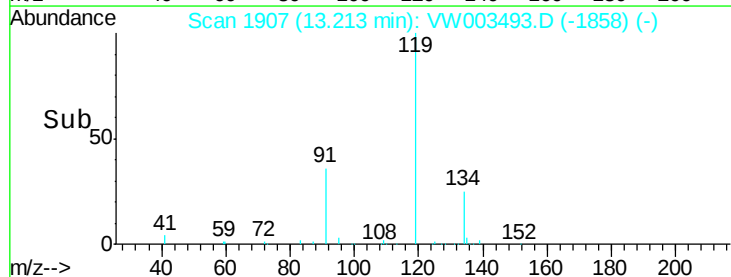
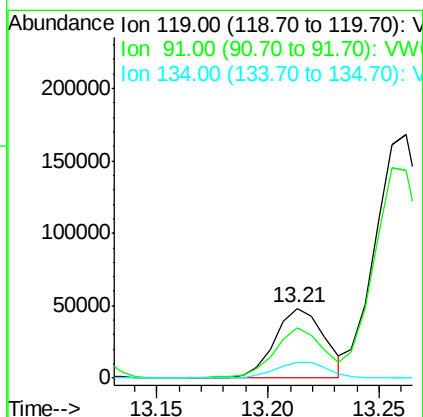
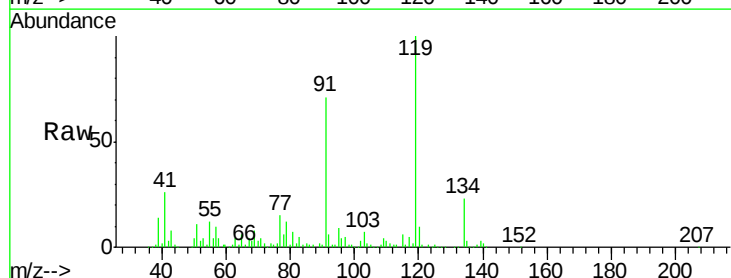
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB477-23-25-180621

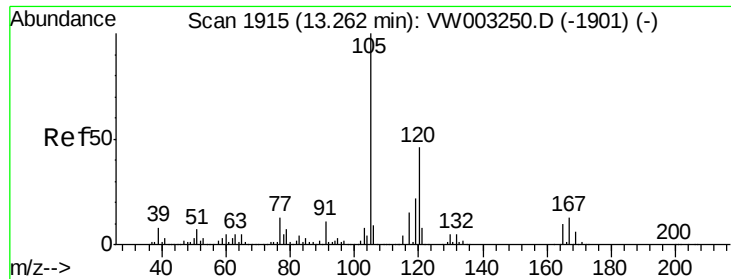
Tot Ion:105 Resp: 787325
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.3 72.9



#83
 tert-Butylbenzene
 Concen: 9.98 ug/l
 RT: 13.21 min Scan# 1907
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

Tgt Ion:119 Resp: 75071
 Ion Ratio Lower Upper
 119 100
 91 70.5 33.9 101.7
 134 23.7 13.4 40.1

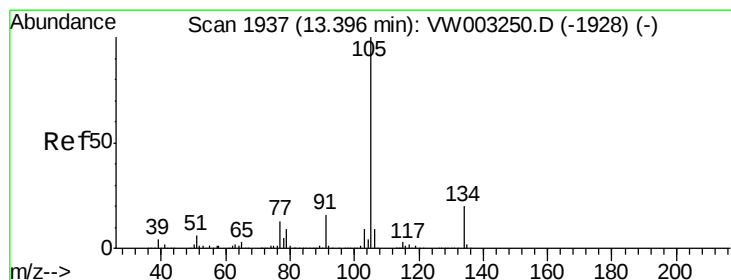
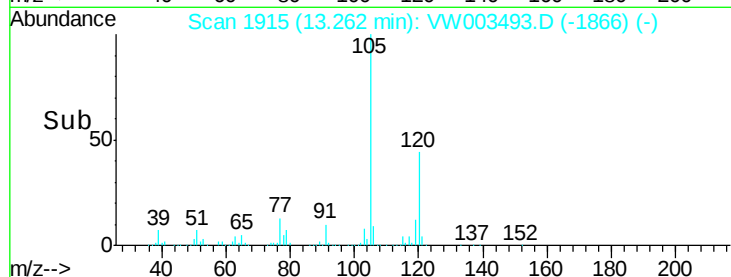
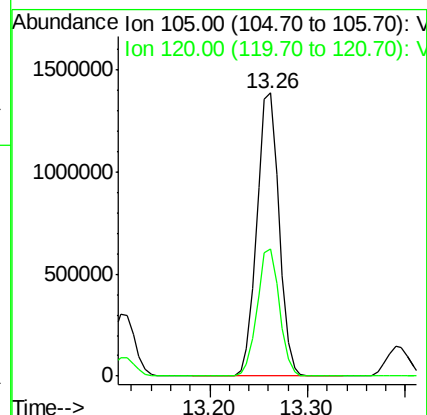
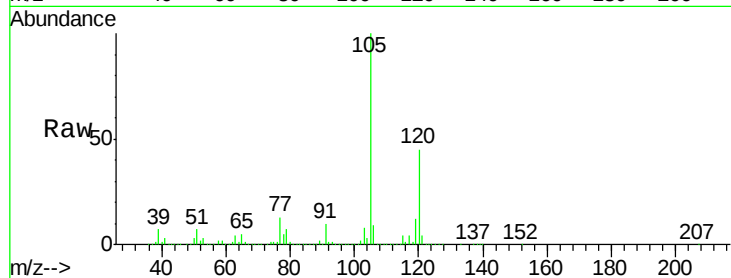




#84
 1,2,4-Trimethylbenzene
 Concen: 240.28 ug/l
 RT: 13.26 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

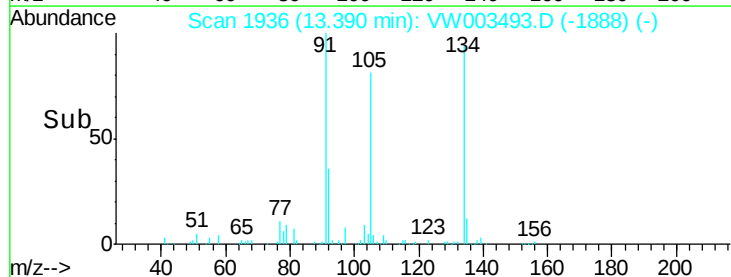
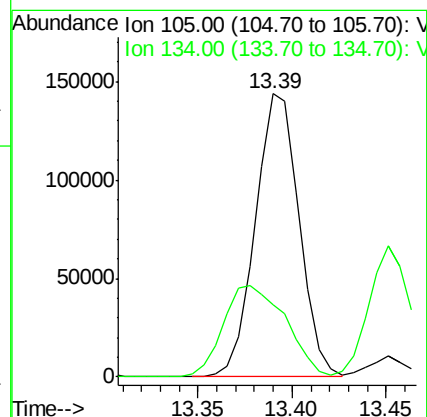
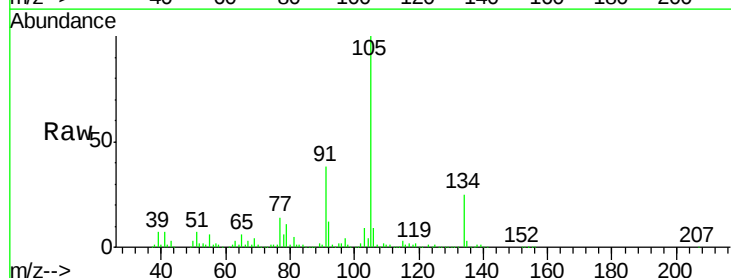
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB477-23-25-180621

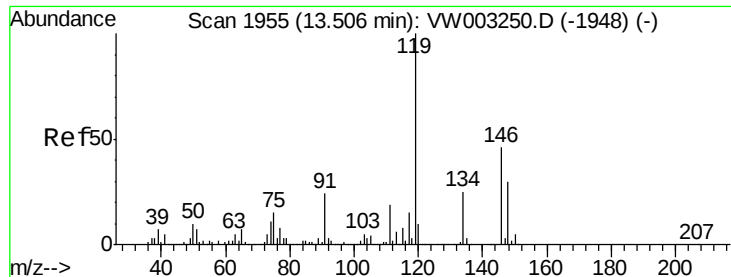
Tot Ion:105 Resp: 2182225
 Ion Ratio Lower Upper
 105 100
 120 45.1 22.5 67.5



#85
 sec-Butylbenzene
 Concen: 20.55 ug/l
 RT: 13.39 min Scan# 1936
 Delta R.T. -0.01 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

Tgt Ion:105 Resp: 229837
 Ion Ratio Lower Upper
 105 100
 134 46.4 9.8 29.5#

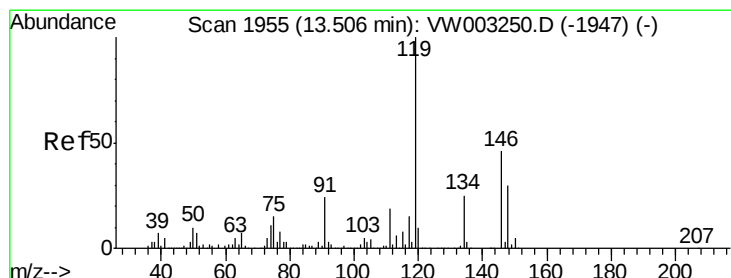
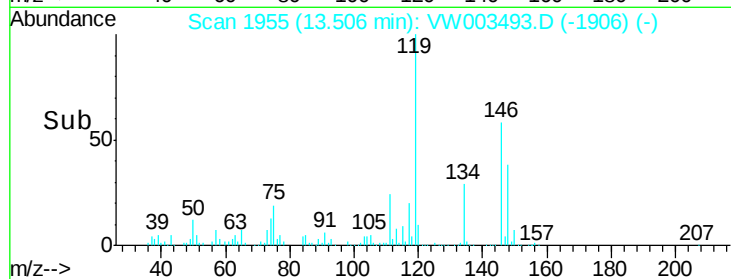
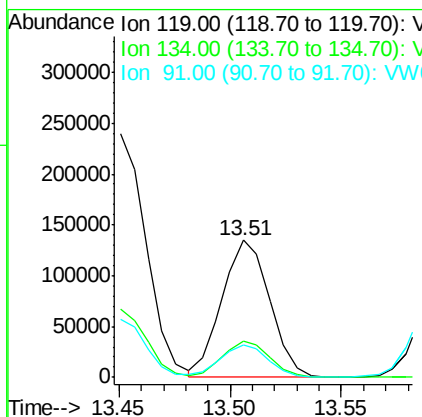
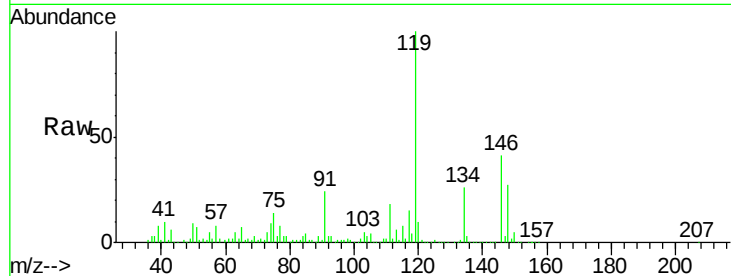




#86
 p-Isopropyltoluene
 Concen: 20.36 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

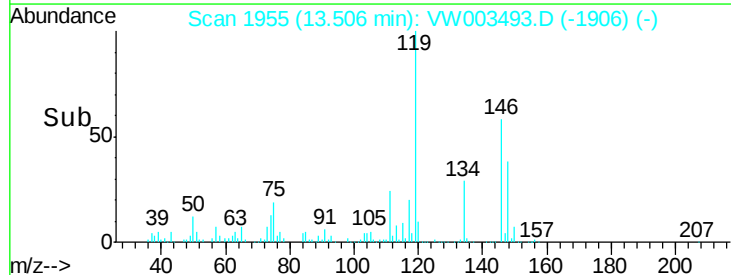
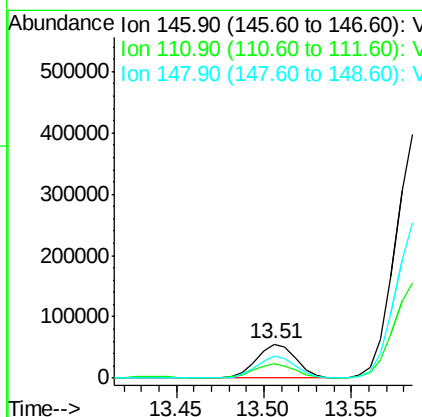
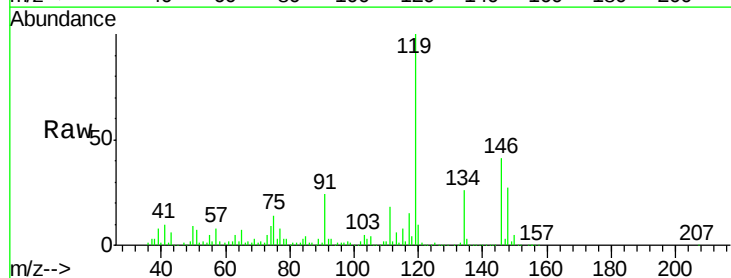
Instrument :
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 ClientSampleId :
 WP021SB477-23-25-180621

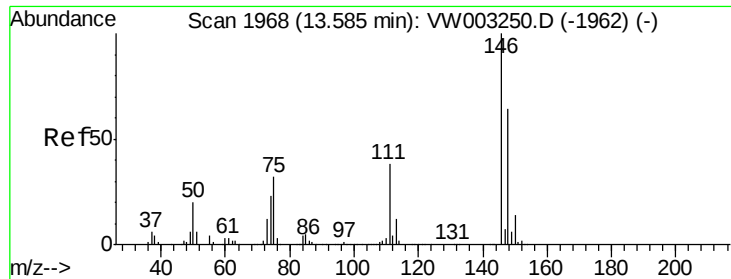
Tot Ion:119 Resp: 200857
 Ion Ratio Lower Upper
 119 100
 134 26.3 12.9 38.7
 91 23.4 11.8 35.3



#87
 1,3-Dichlorobenzene
 Concen: 17.42 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

Tgt Ion:146 Resp: 87682
 Ion Ratio Lower Upper
 146 100
 111 43.2 19.8 59.4
 148 63.7 32.1 96.5

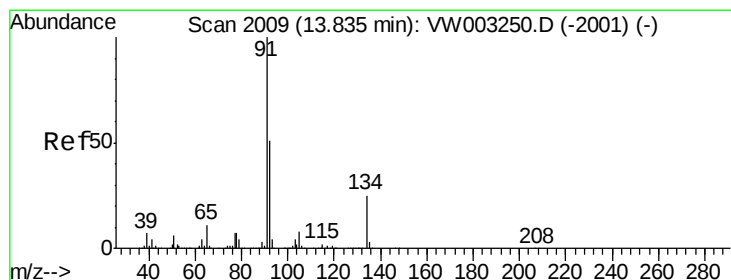
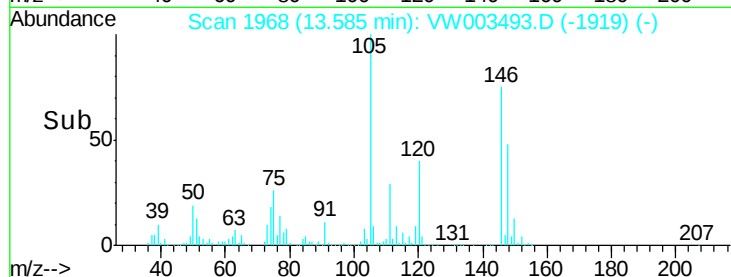
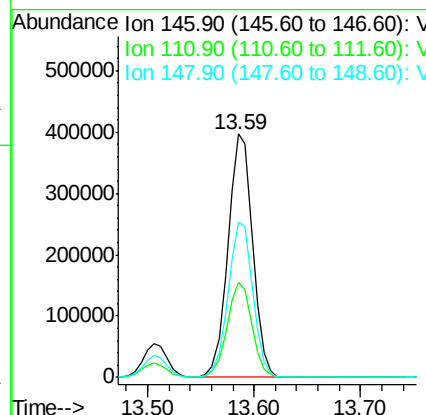
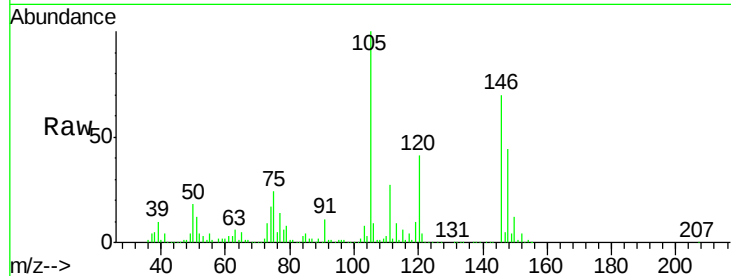




#88
 1,4-Dichlorobenzene
 Concen: 128.07 ug/l
 RT: 13.59 min Scan# 1968
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

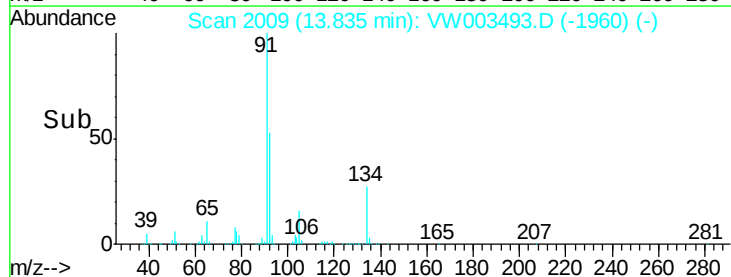
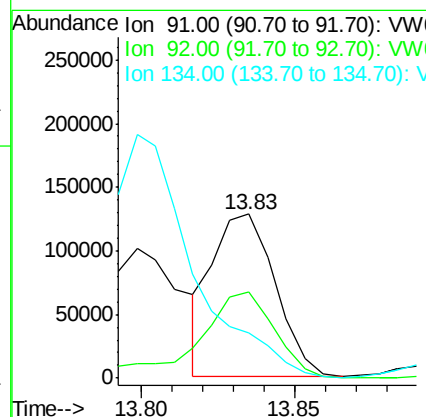
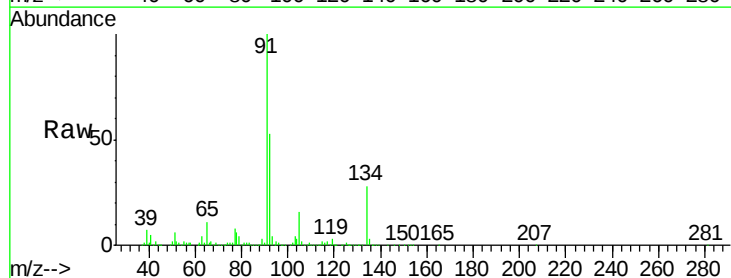
Instrument :
 MSVOA_W
 ClientSampleId :
 WP021SB477-23-25-180621

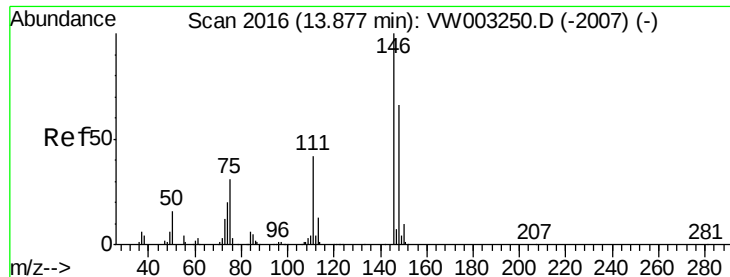
Tot Ion:146 Resp: 640704
 Ion Ratio Lower Upper
 146 100
 111 39.2 19.2 57.6
 148 64.1 31.8 95.4



#89
 n-Butylbenzene
 Concen: 18.84 ug/l
 RT: 13.83 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VW003493.D
 Acq: 24 Jun 2018 07:05

Tgt Ion: 91 Resp: 181112
 Ion Ratio Lower Upper
 91 100
 92 65.5 26.0 78.0
 134 0.0 12.7 38.0#





#91

1,2-Dichlorobenzene

Concen: 62.61 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

Instrument :

MSVOA_W

ClientSampleId :

WP021SB477-23-25-180621

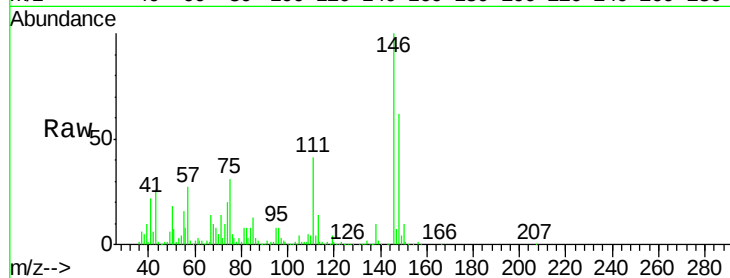
Tot Ion:146 Resp: 275985

Ion Ratio Lower Upper

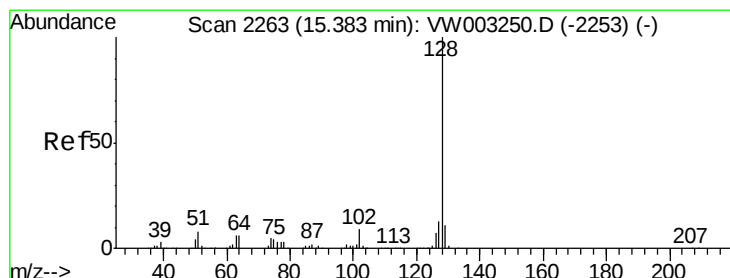
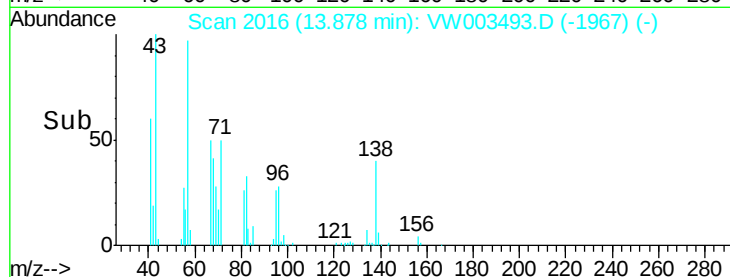
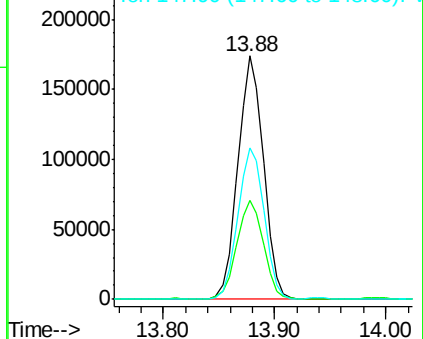
146 100

111 42.4 20.3 61.0

148 63.8 32.3 96.9



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



#95

Naphthalene

Concen: 72.86 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. -0.01 min

Lab File: VW003493.D

Acq: 24 Jun 2018 07:05

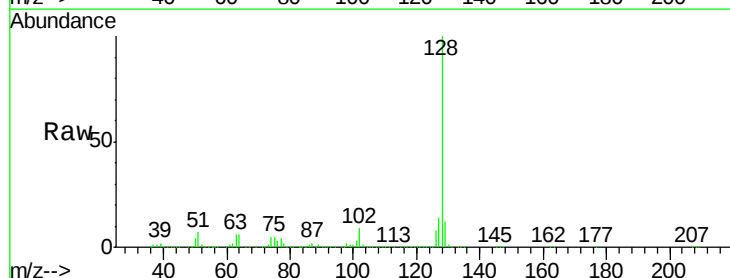
Tgt Ion:128 Resp: 382461

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 10.8 8.9 13.3



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

