

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV121618\
 Data File : VW007502.D
 Acq On : 13 Dec 2018 23:23
 Operator : SY/AP
 Sample : J6199-07RE
 Misc : 6.54G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-04-121218-BRE

Quant Time: Dec 14 04:29:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	88628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	151485	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	123547	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	43749	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	36513	37.13	ug/l	0.00
Spiked Amount			Recovery	=	74.26%	
35) Dibromofluoromethane	7.88	113	34455	37.57	ug/l	0.00
Spiked Amount			Recovery	=	75.14%	
50) Toluene-d8	10.32	98	112903	32.84	ug/l	0.00
Spiked Amount			Recovery	=	65.68%	
62) 4-Bromofluorobenzene	12.62	95	39164	30.98	ug/l	0.00
Spiked Amount			Recovery	=	61.96%	

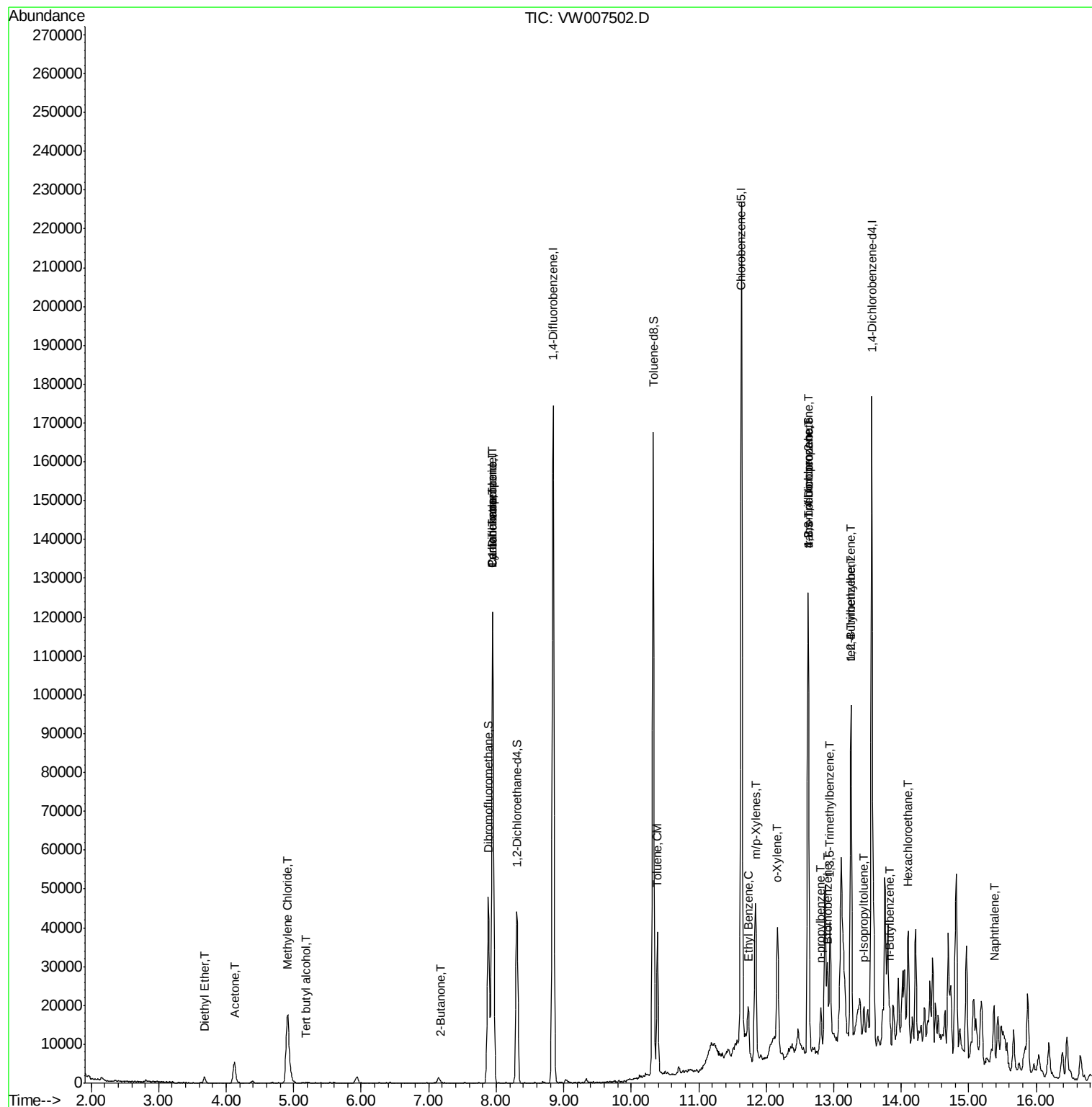
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	847	1.977	ug/l	90
11) Tert butyl alcohol	5.18	59	100	1.481	ug/l #	74
16) Acetone	4.12	43	9482	55.210	ug/l	98
20) Methylene Chloride	4.90	84	15852	14.062	ug/l	92
25) 2-Butanone	7.18	43	338	1.507	ug/l #	45
31) Cyclohexane	7.94	56	1883	1.233	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	6831	4.943	ug/l #	47
38) Carbon Tetrachloride	7.95	117	9044	6.015	ug/l #	17
52) Toluene	10.38	92	15838	6.382	ug/l	99
67) Ethyl Benzene	11.73	91	7943	1.794	ug/l	96
68) m/p-Xylenes	11.84	106	12590	7.315	ug/l	99
69) o-Xylene	12.16	106	8345	5.191	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	19861	55.059	ug/l #	1
77) Bromobenzene	12.92	156	2484	3.343	ug/l #	1
78) n-propylbenzene	12.80	91	8284	2.196	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	13484	4.787	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	19861	121.625	ug/l #	7
83) tert-Butylbenzene	13.26	119	7164	2.887	ug/l #	76
84) 1,2,4-Trimethylbenzene	13.26	105	46302	15.974	ug/l	99
86) p-Isopropyltoluene	13.44	119	4104	1.348	ug/l	95
89) n-Butylbenzene	13.83	91	4145	1.469	ug/l #	67
90) Hexachloroethane	14.10	117	1617	2.986	ug/l #	14
95) Naphthalene	15.38	128	12552	7.185	ug/l	98

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

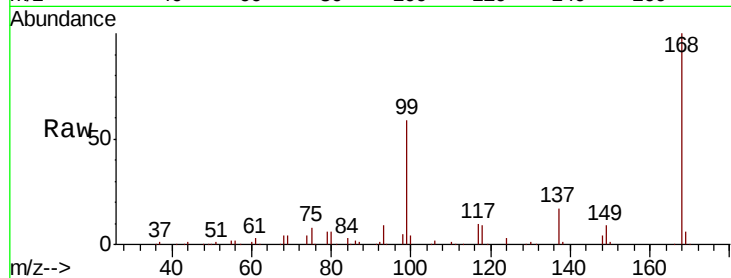
Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

Tot Ion:168 Resp: 88628

Ion Ratio Lower Upper

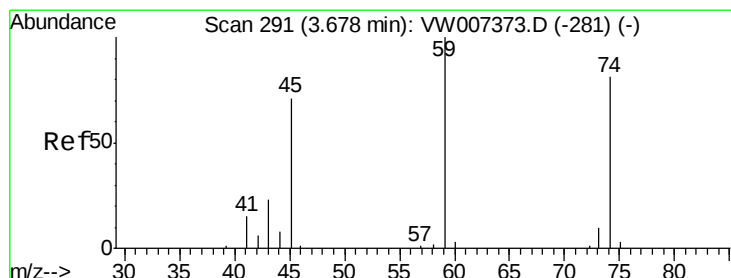
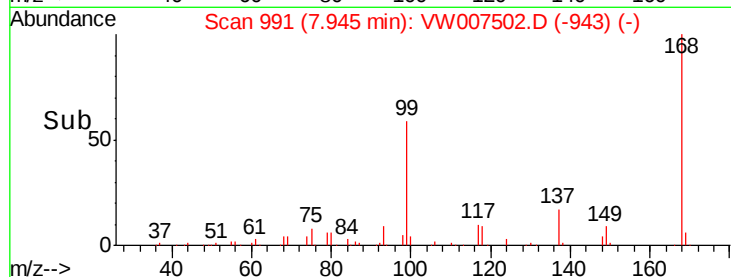
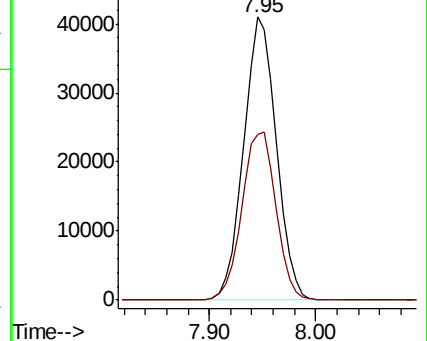
168 100

99 58.5 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.977 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW007502.D

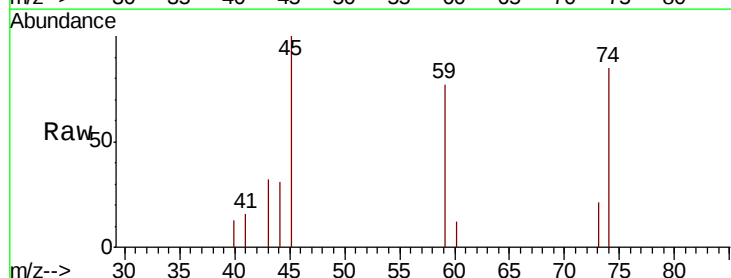
Acq: 13 Dec 2018 23:23

Tgt Ion: 74 Resp: 847

Ion Ratio Lower Upper

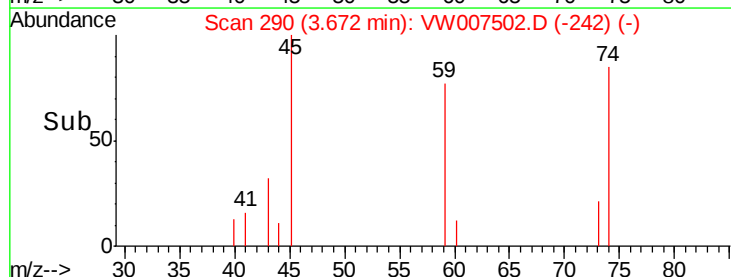
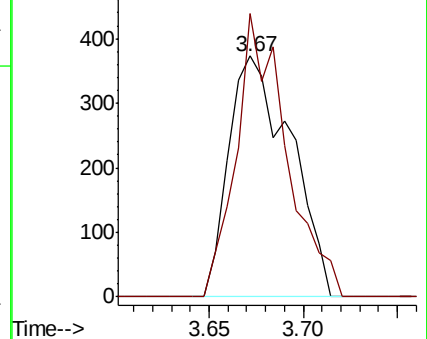
74 100

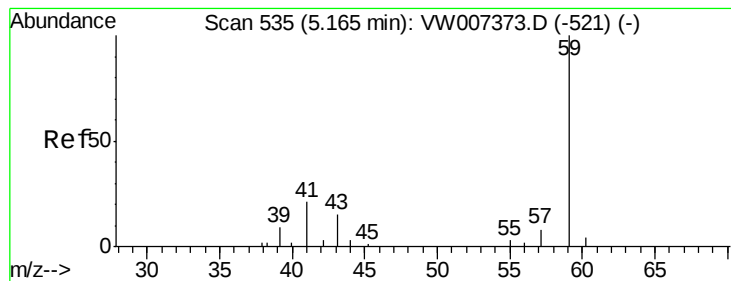
45 95.3 43.0 129.0



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



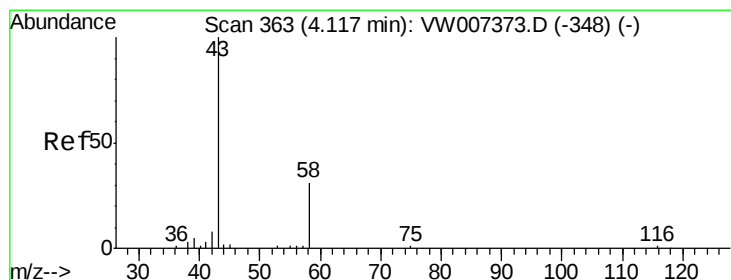
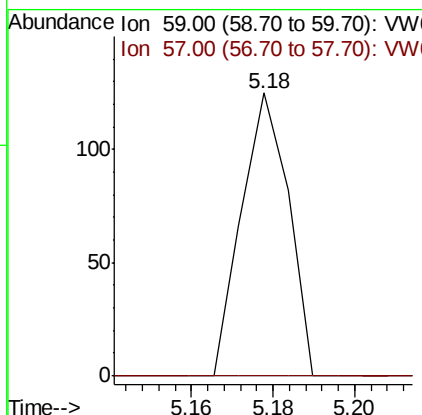
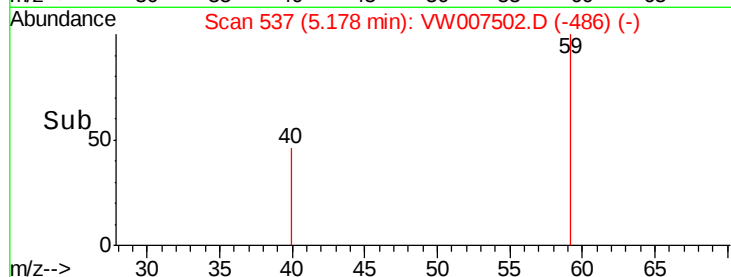
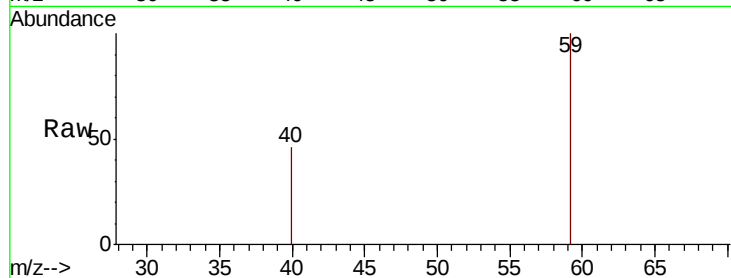


#11

Tert butyl alcohol
 Concen: 1.481 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-04-121218-BRE

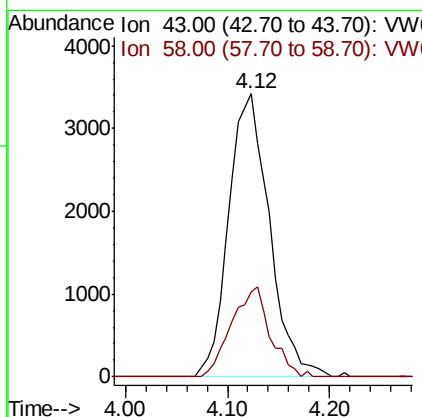
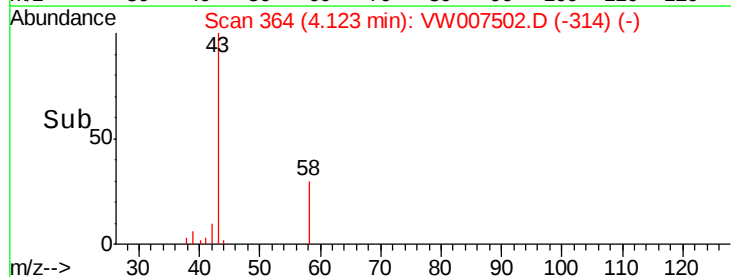
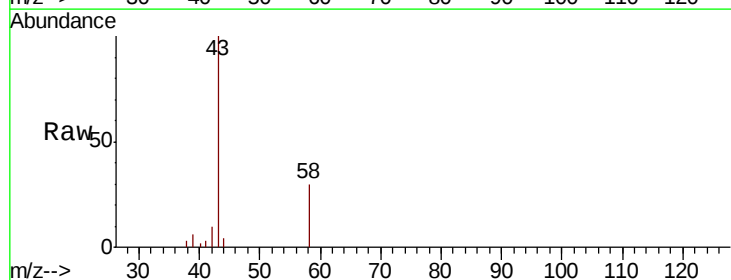
Tot Ion: 59 Resp: 100
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

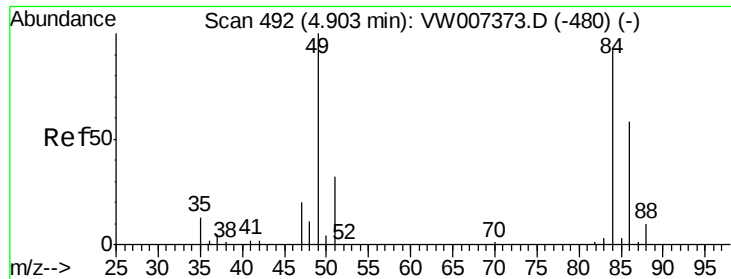


#16

Acetone
 Concen: 55.210 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

Tgt Ion: 43 Resp: 9482
 Ion Ratio Lower Upper
 43 100
 58 30.1 24.9 37.3

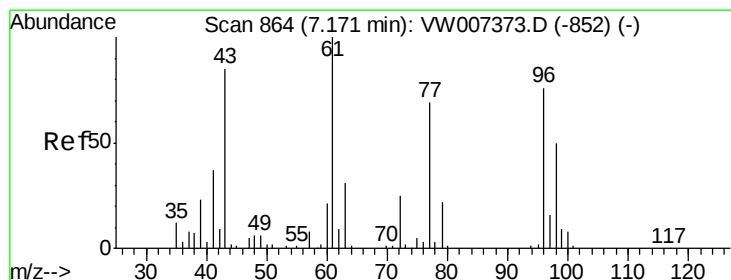
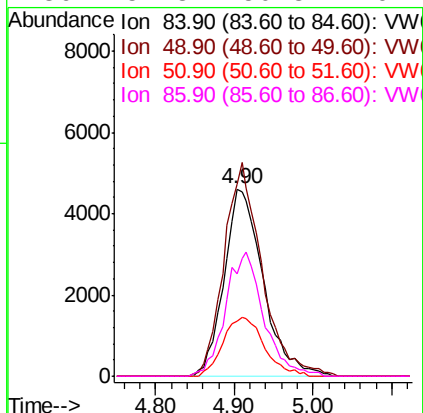
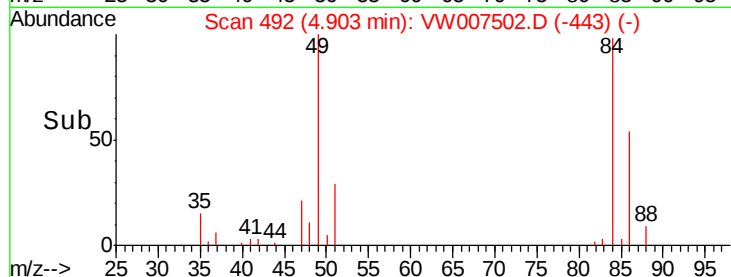
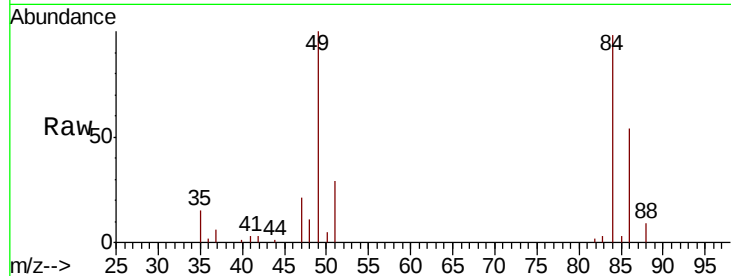




#20
Methvlene Chloride
Concen: 14.062 ug/l
RT: 4.90 min Scan# 492
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

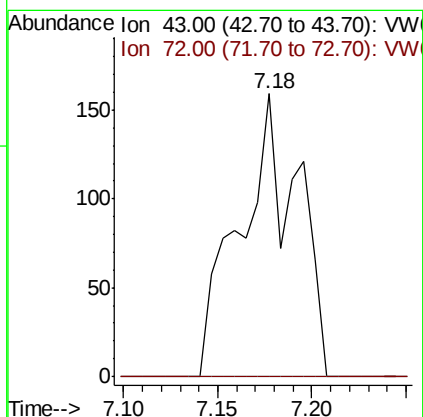
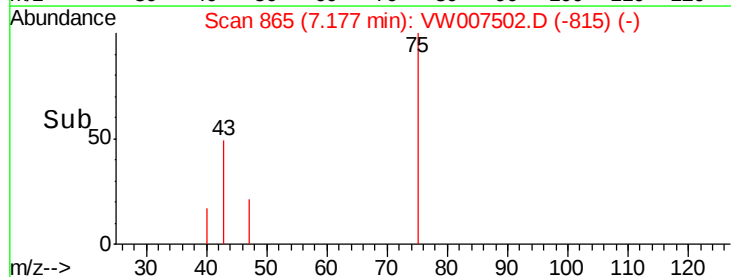
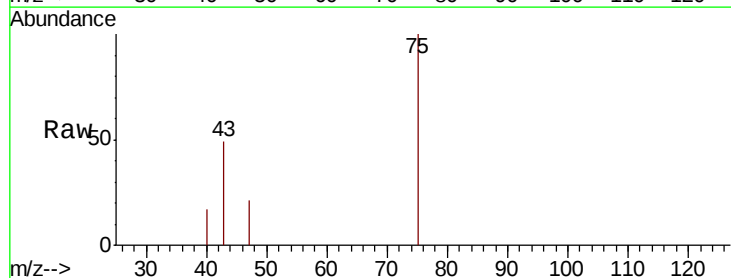
Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

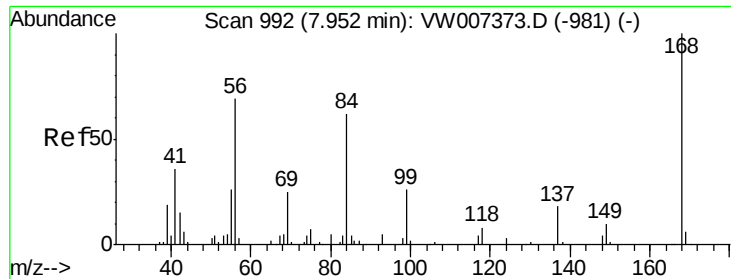
Tot Ion: 84 Resp: 15852
Ion Ratio Lower Upper
84 100
49 102.3 87.1 130.7
51 29.5 28.2 42.2
86 54.8 50.8 76.2



#25
2-Butanone
Concen: 1.507 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Tgt Ion: 43 Resp: 338
Ion Ratio Lower Upper
43 100
72 0.0 23.4 35.2#

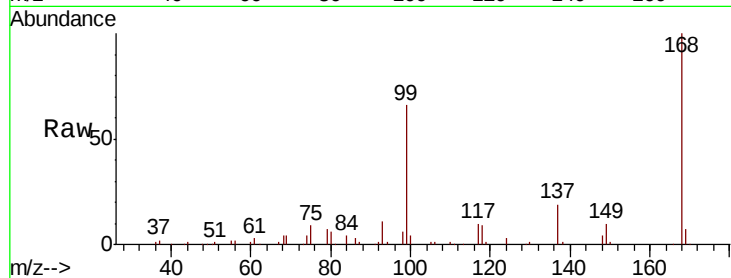




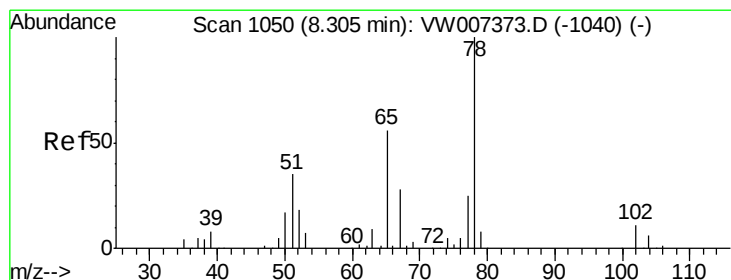
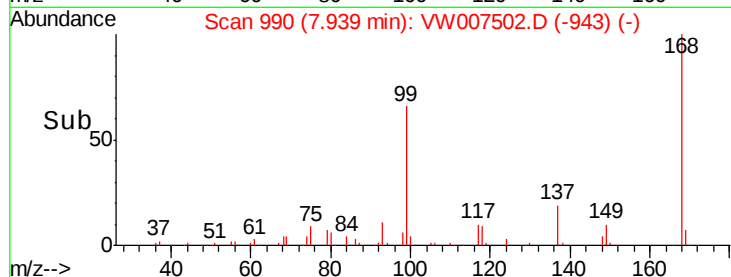
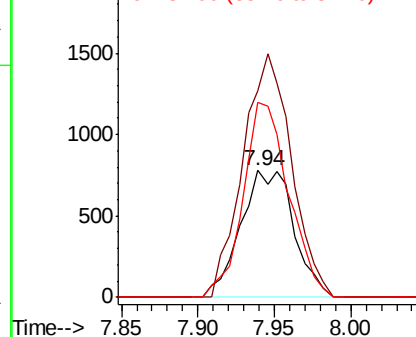
#31
Cyclohexane
Concen: 1.233 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

Tot Ion: 56 Resp: 1883
Ion Ratio Lower Upper
56 100
69 163.1 28.9 43.3#
84 153.7 71.8 107.6#

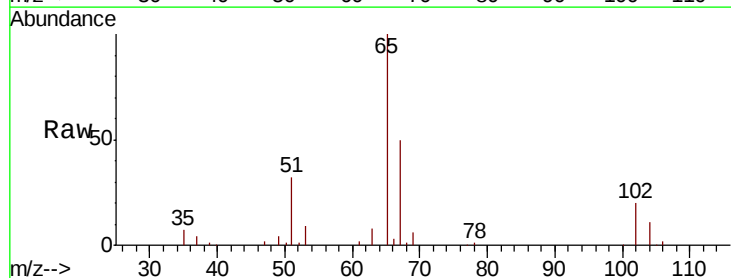


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

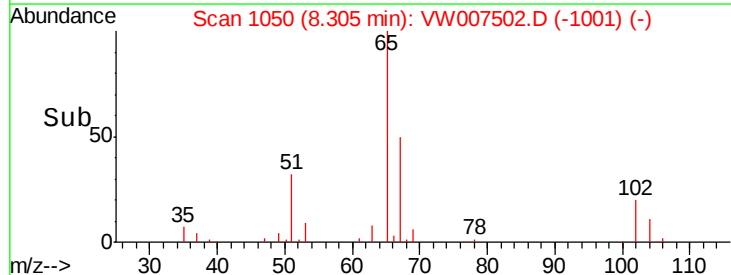
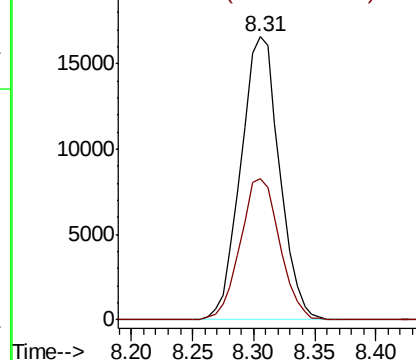


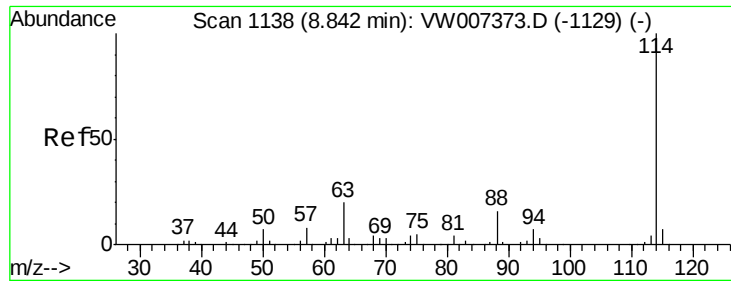
#33
1,2-Dichloroethane-d4
Concen: 37.135 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Tgt Ion: 65 Resp: 36513
Ion Ratio Lower Upper
65 100
67 50.9 0.0 101.6



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

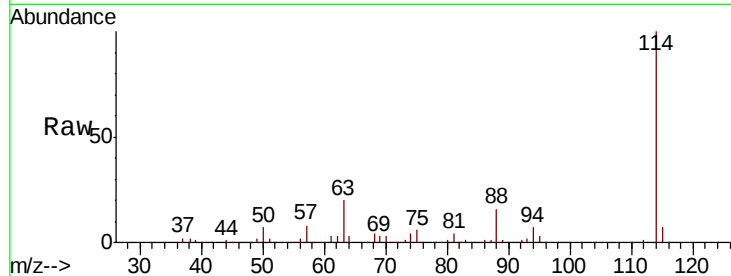




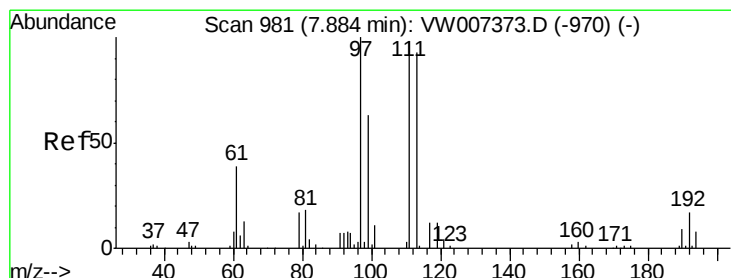
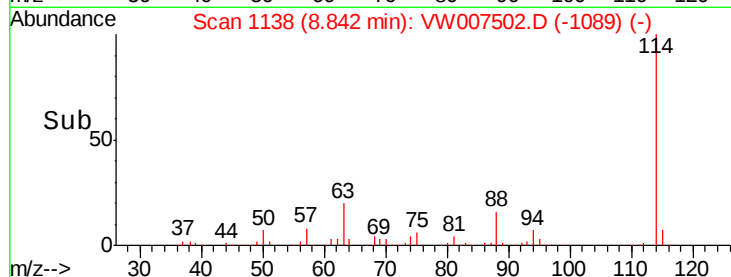
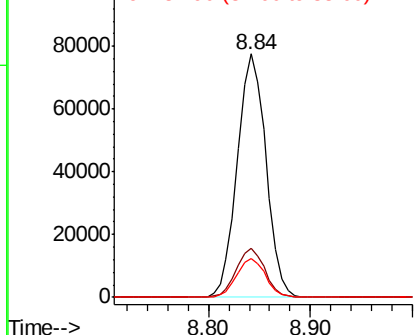
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

Instrument :
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 ClientSampleId :
 SU-04-121218-BRE

Tot Ion:114 Resp: 151485
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.6
 88 16.0 0.0 31.4

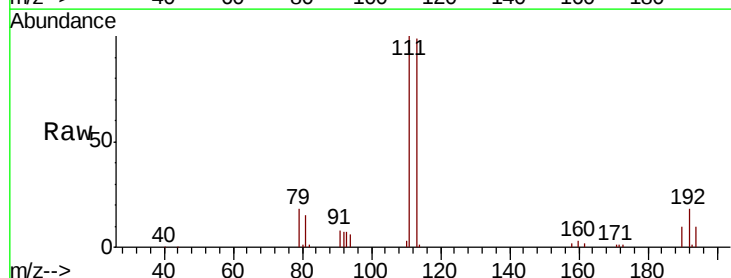


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

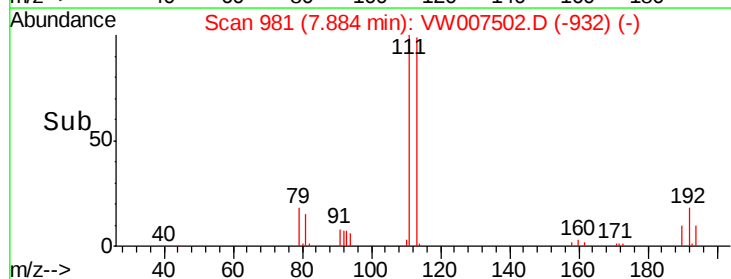
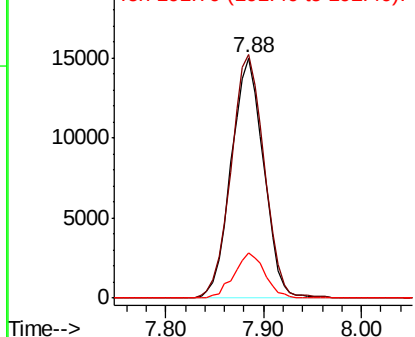


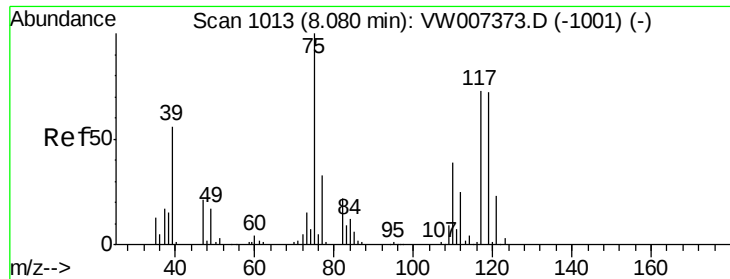
#35
 Dibromofluoromethane
 Concen: 37.574 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

Tgt Ion:113 Resp: 34455
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.1 121.7
 192 18.0 14.6 21.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

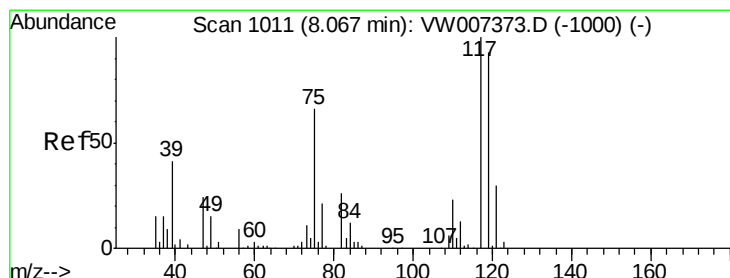
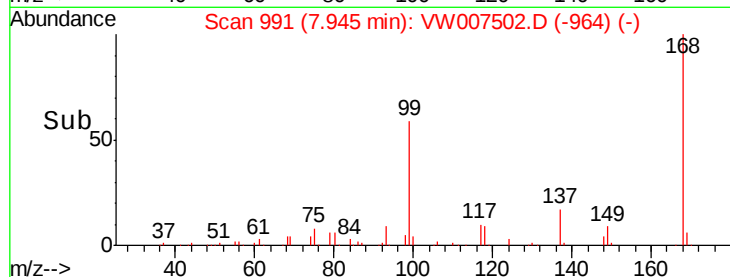
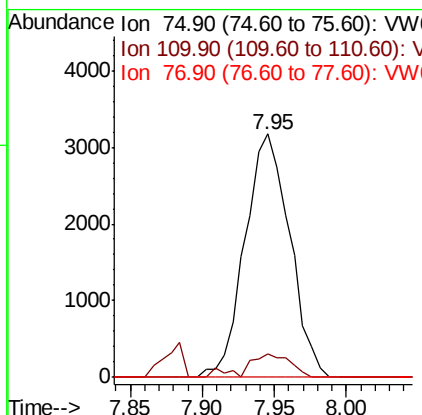
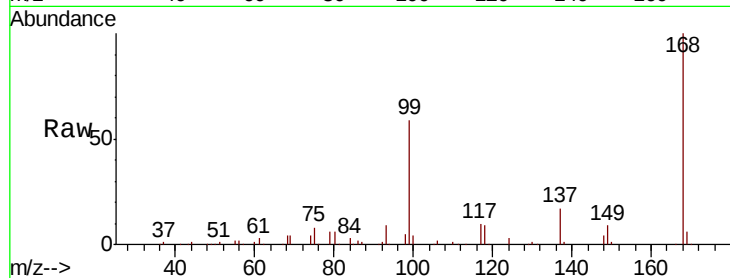




#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

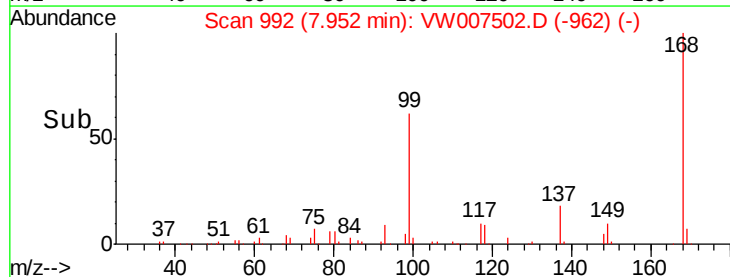
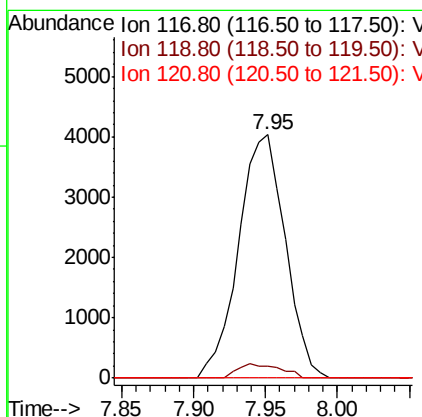
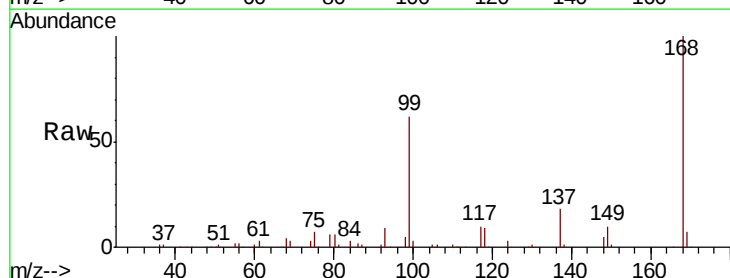
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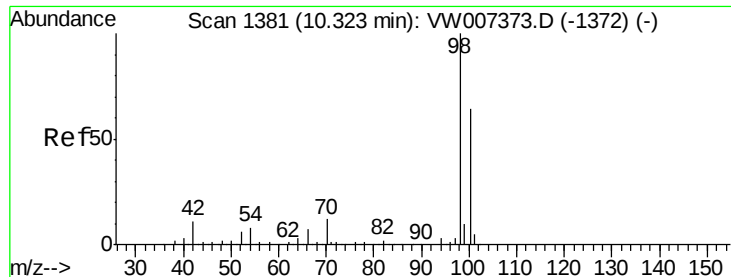
Tot Ion	75	Resp	6831
Ion Ratio	Lower	Upper	
75	100		
110	8.0	18.5	55.5#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 6.015 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

Tgt Ion	117	Resp	9044
Ion Ratio	Lower	Upper	
117	100		
119	4.7	74.3	111.5#
121	0.0	24.3	36.5#





#50

Toluene-d8

Concen: 32.837 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

Instrument :

MSVOA_W

ClientSampleId :

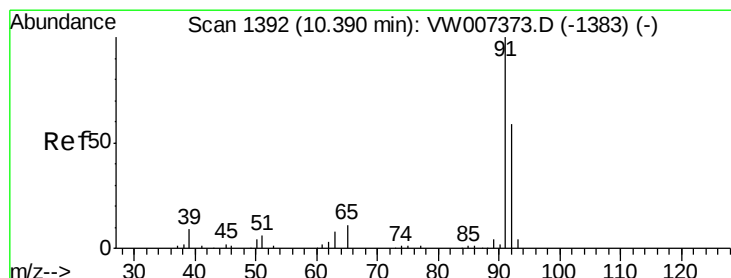
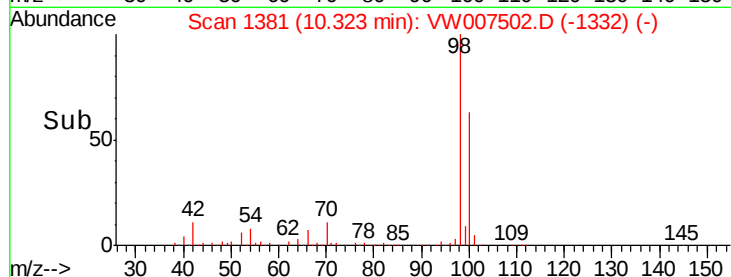
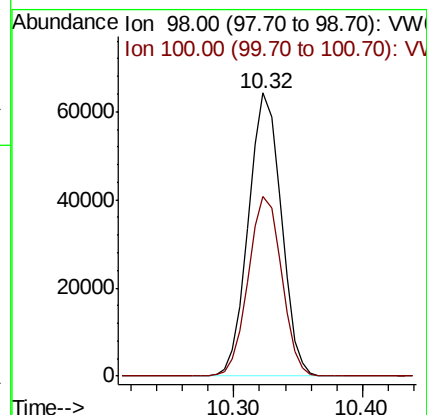
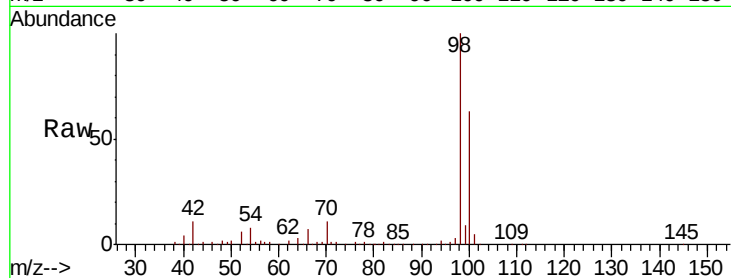
SU-04-121218-BRE

Tot Ion: 98 Resp: 112903

Ion Ratio Lower Upper

98 100

100 64.4 51.8 77.8



#52

Toluene

Concen: 6.382 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007502.D

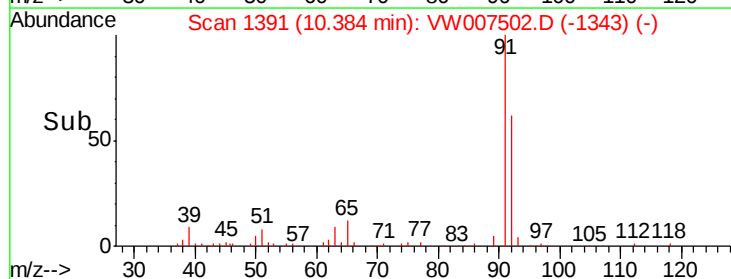
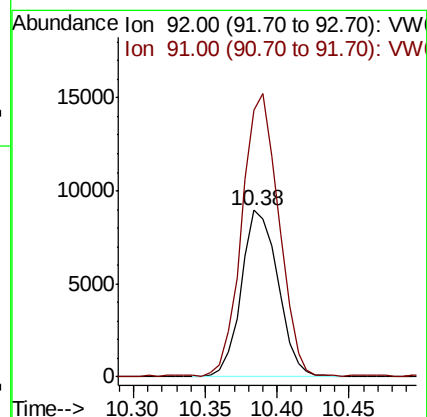
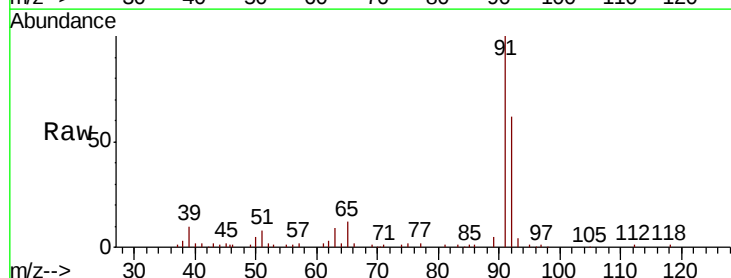
Acq: 13 Dec 2018 23:23

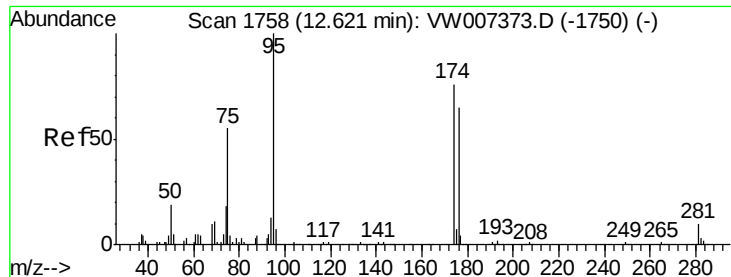
Tgt Ion: 92 Resp: 15838

Ion Ratio Lower Upper

92 100

91 171.1 136.2 204.2

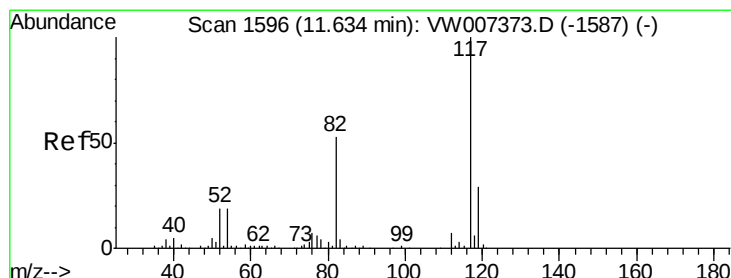
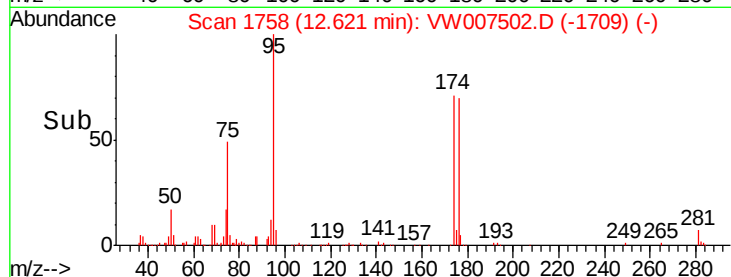
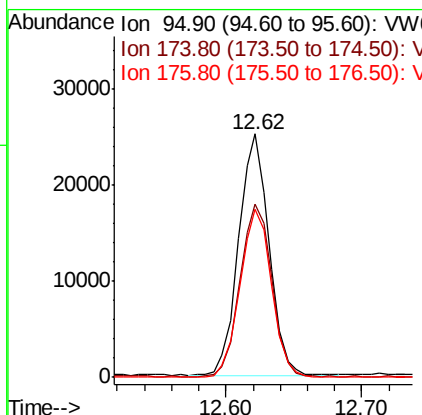
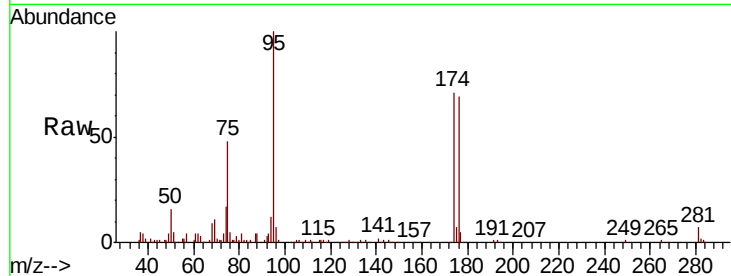




#62
4-Bromofluorobenzene
Concen: 30.980 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

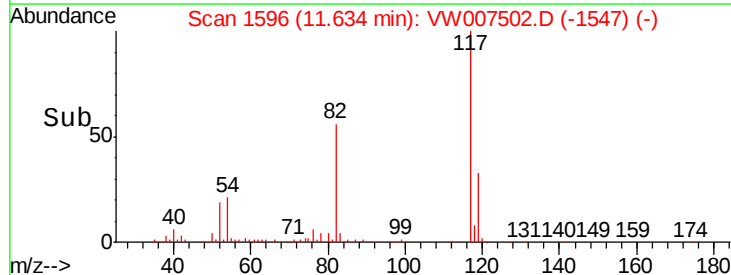
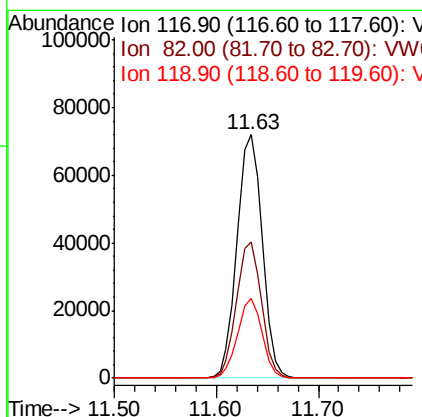
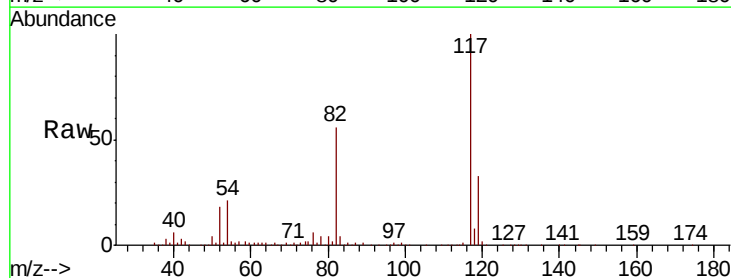
Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

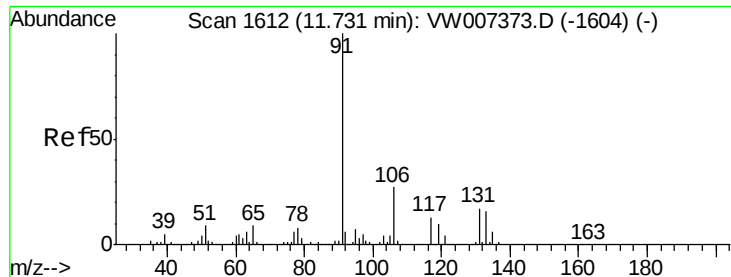
Tot Ion: 95 Resp: 39164
Ion Ratio Lower Upper
95 100
174 74.5 0.0 147.2
176 72.0 0.0 138.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Tgt Ion: 117 Resp: 123547
Ion Ratio Lower Upper
117 100
82 55.7 42.3 63.5
119 32.9 23.0 34.6

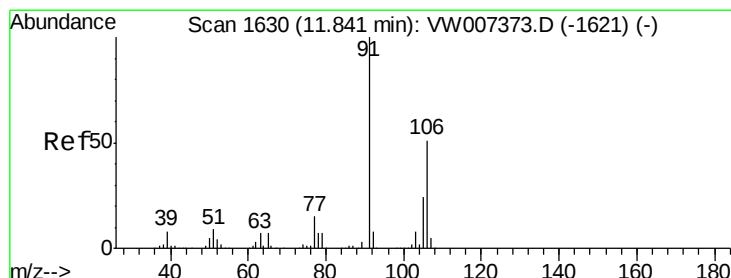
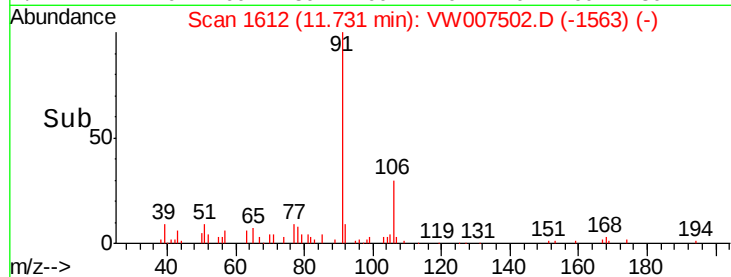
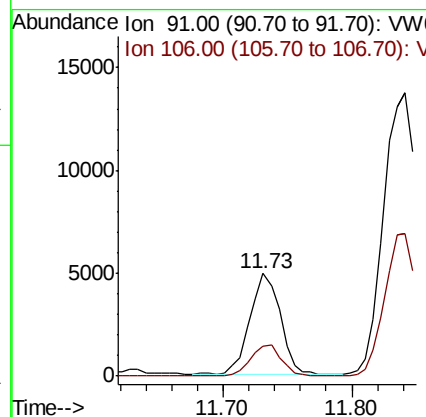
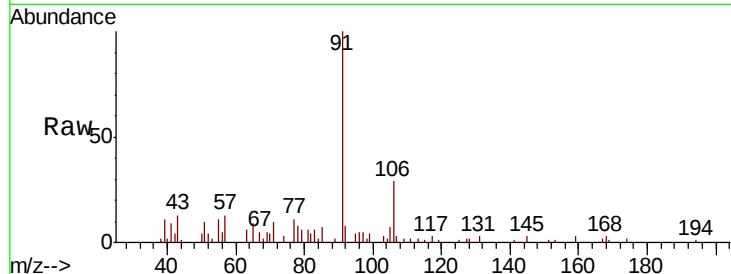




#67
Ethyl Benzene
Concen: 1.794 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

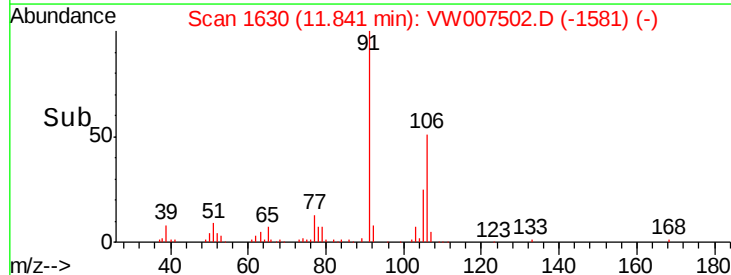
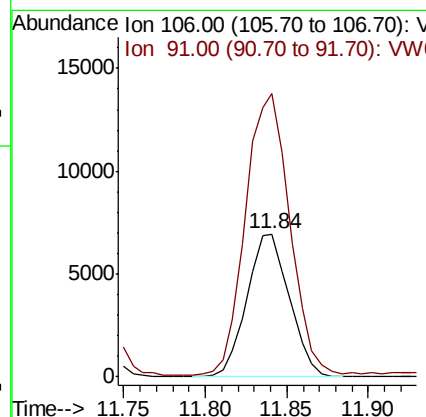
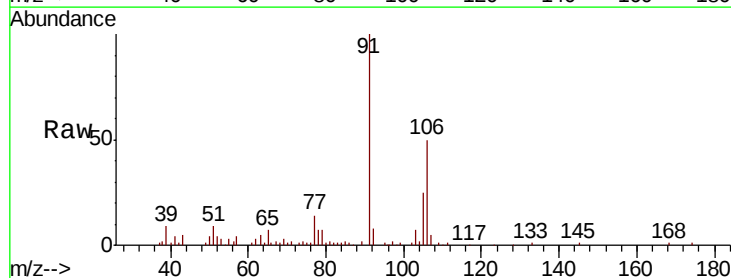
Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

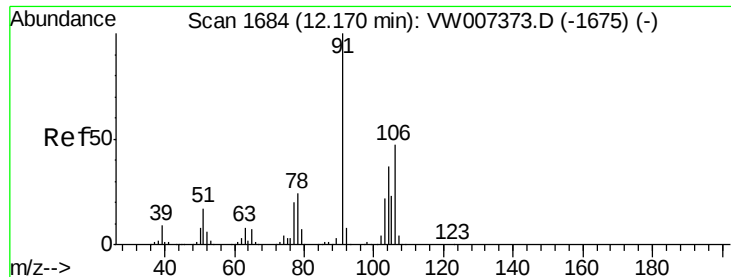
Tot Ion: 91 Resp: 7943
Ion Ratio Lower Upper
91 100
106 29.4 21.8 32.8



#68
m/p-Xylenes
Concen: 7.315 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Tgt Ion: 106 Resp: 12590
Ion Ratio Lower Upper
106 100
91 205.5 165.3 247.9

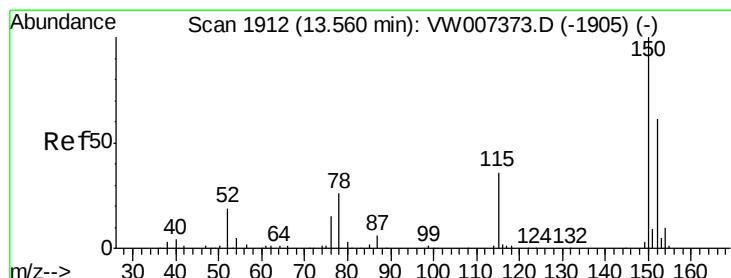
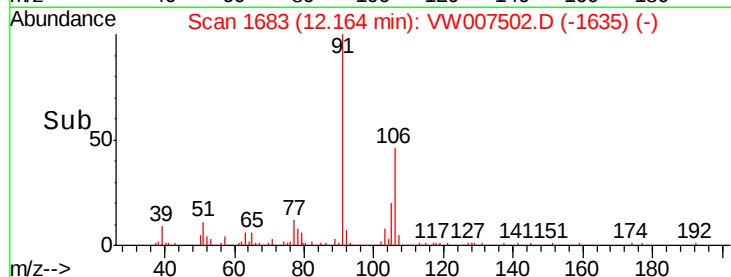
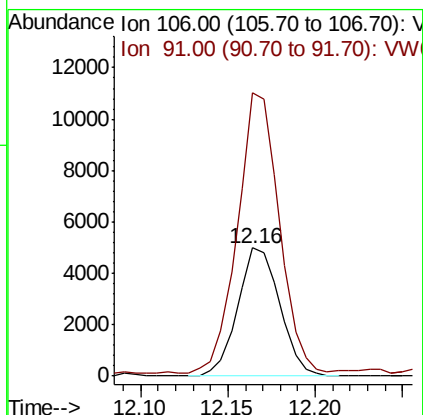
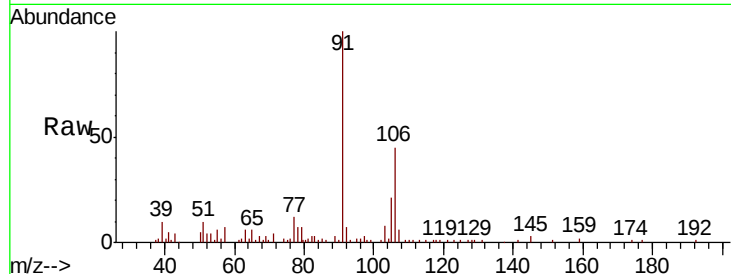




#69
o-Xylene
Concen: 5.191 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

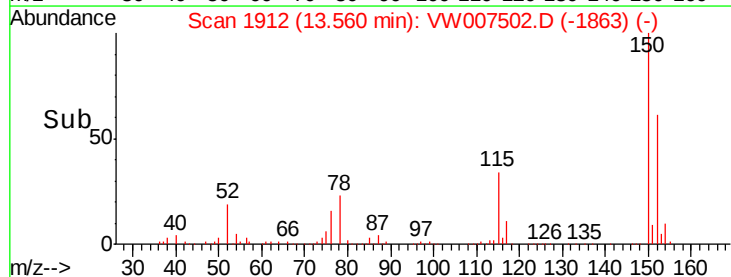
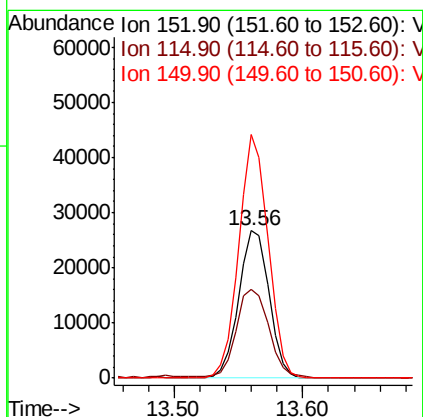
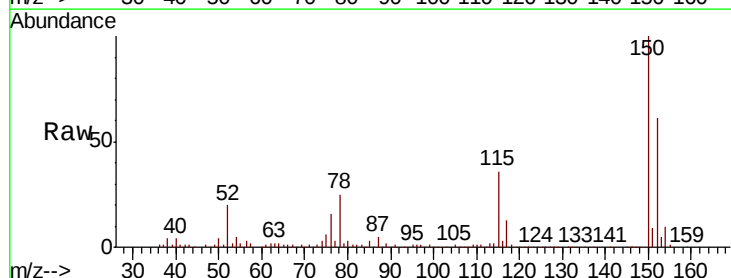
Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

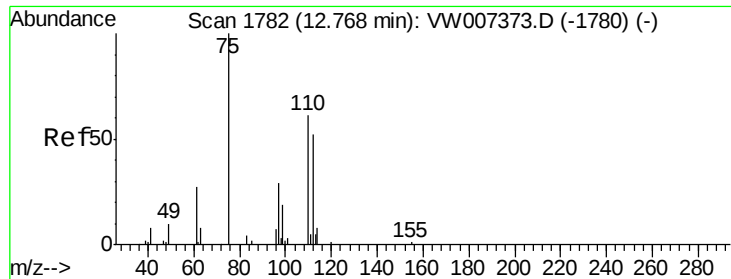
Tot Ion:106 Resp: 8345
Ion Ratio Lower Upper
106 100
91 216.3 106.6 319.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Tgt Ion:152 Resp: 43749
Ion Ratio Lower Upper
152 100
115 64.0 31.4 94.2
150 158.5 0.0 358.4





#76

1,2,3-Trichloropropane

Concen: 55.059 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

Instrument :

MSVOA_W

ClientSampleId :

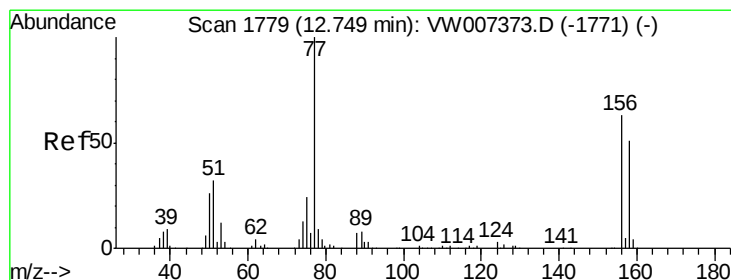
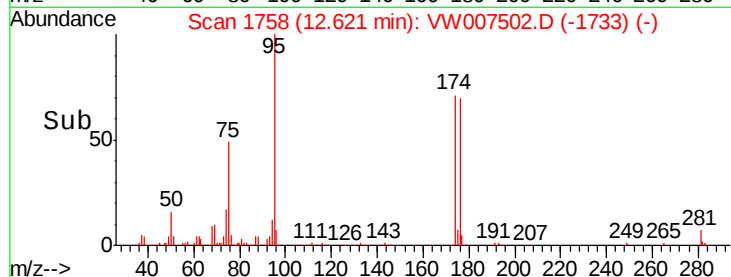
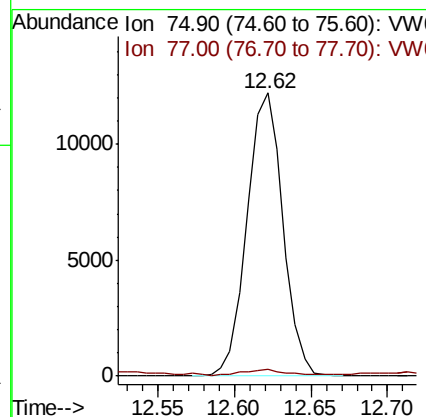
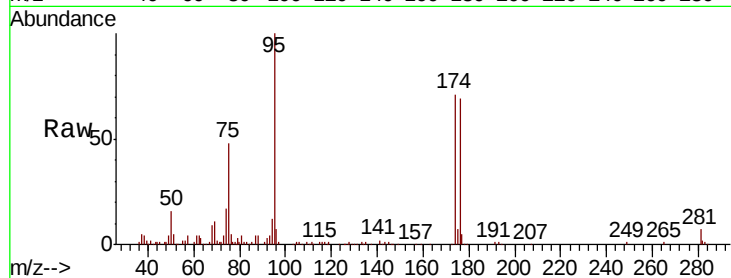
SU-04-121218-BRE

Tot Ion: 75 Resp: 19861

Ion Ratio Lower Upper

75 100

77 3.1 166.9 500.8#



#77

Bromobenzene

Concen: 3.343 ug/l

RT: 12.92 min Scan# 1807

Delta R.T. 0.17 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

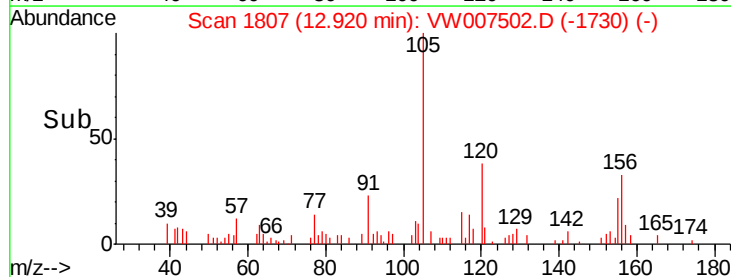
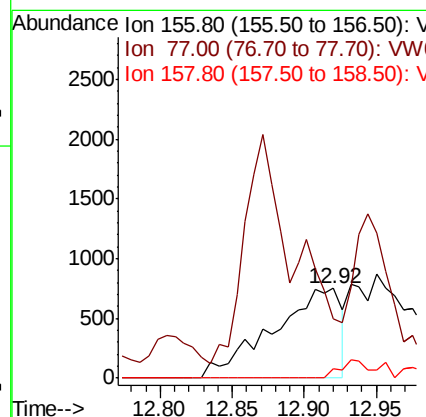
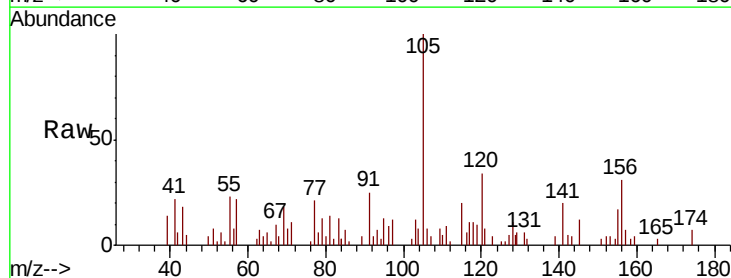
Tgt Ion: 156 Resp: 2484

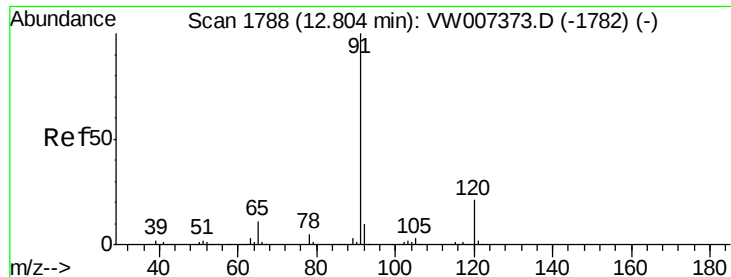
Ion Ratio Lower Upper

156 100

77 0.0 88.1 264.4#

158 8.6 45.6 136.7#





#78

n-propylbenzene

Concen: 2.196 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

Instrument :

MSVOA_W

ClientSampleId :

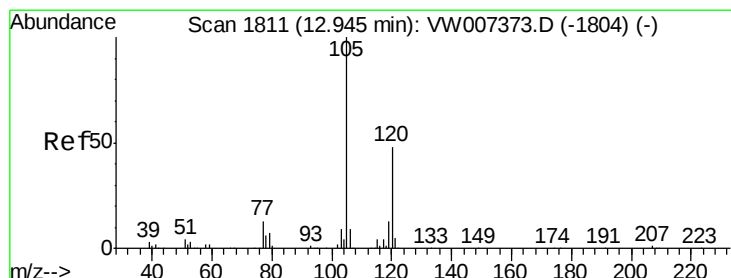
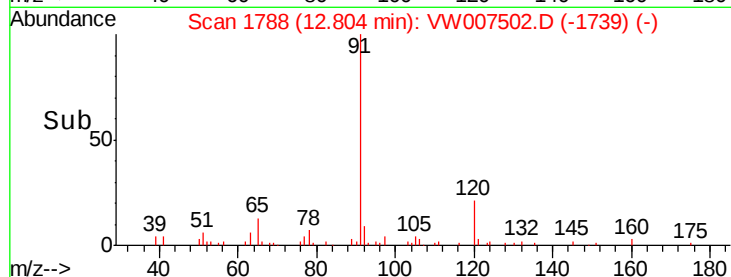
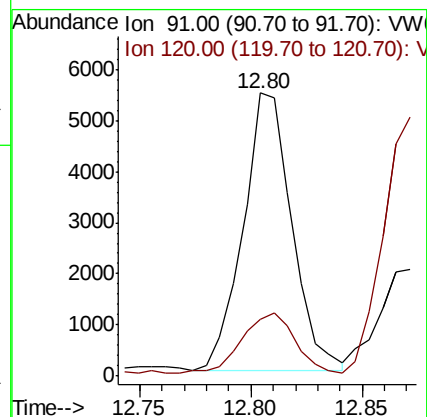
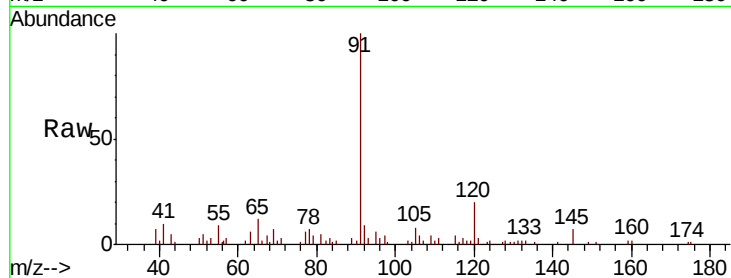
SU-04-121218-BRE

Tot Ion: 91 Resp: 8284

Ion Ratio Lower Upper

91 100

120 23.8 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 4.787 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW007502.D

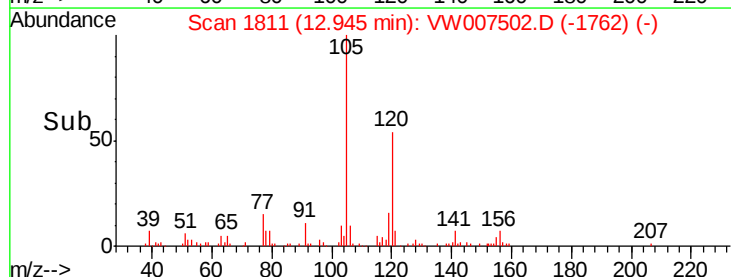
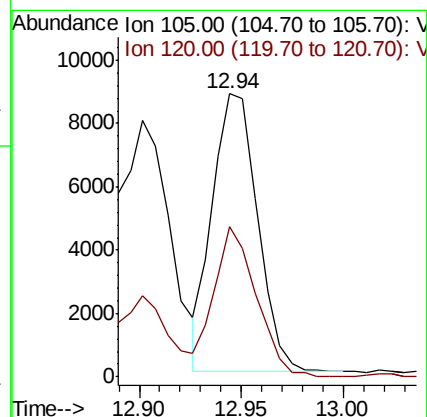
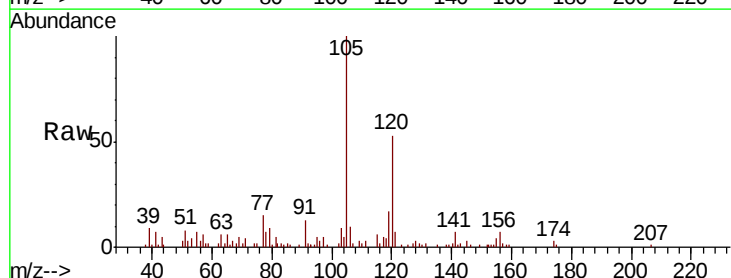
Acq: 13 Dec 2018 23:23

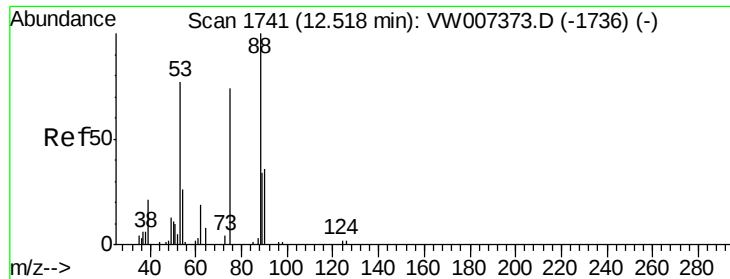
Tgt Ion:105 Resp: 13484

Ion Ratio Lower Upper

105 100

120 50.7 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 121.625 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

Instrument :

MSVOA_W

ClientSampleId :

SU-04-121218-BRE

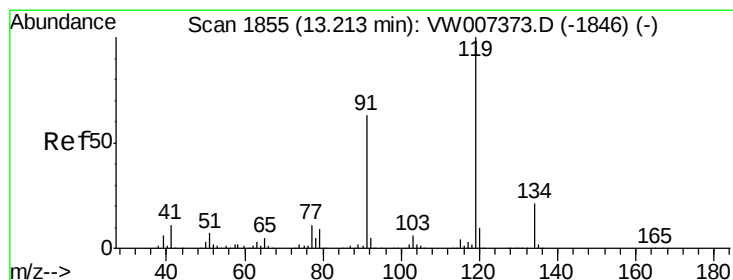
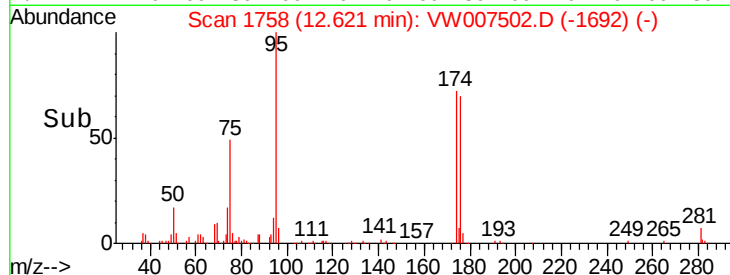
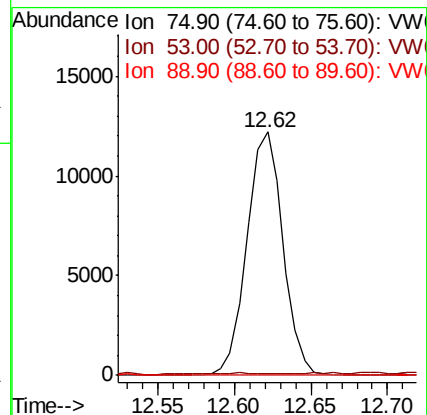
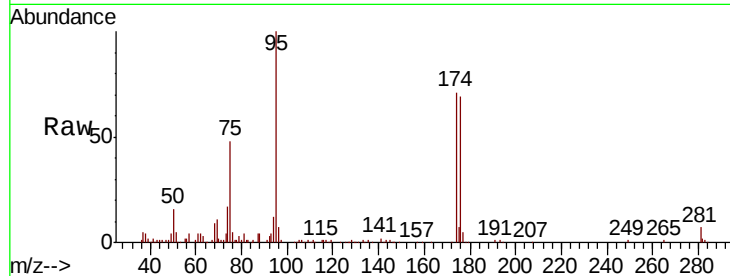
Tot Ion: 75 Resp: 19861

Ion Ratio Lower Upper

75 100

53 0.4 84.9 127.3#

89 0.0 40.3 60.5#



#83

tert-Butylbenzene

Concen: 2.887 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.04 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

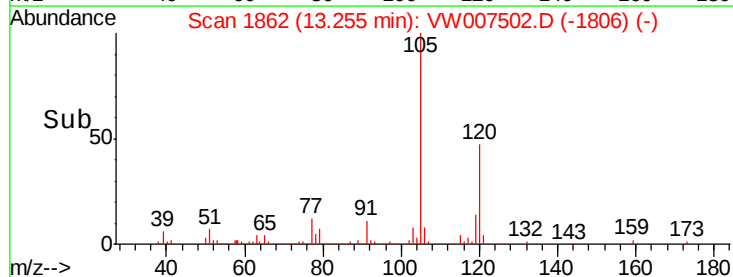
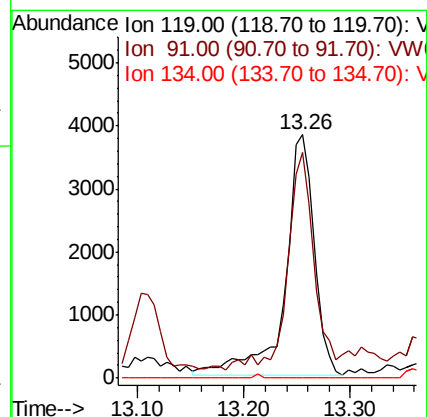
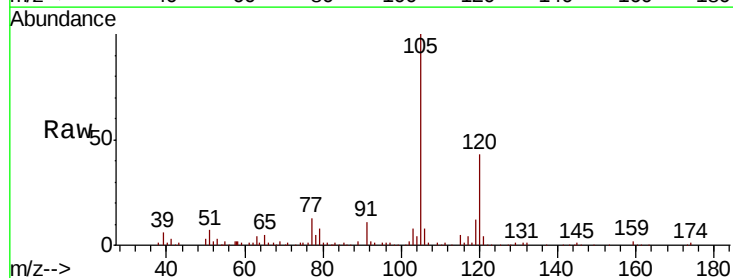
Tgt Ion: 119 Resp: 7164

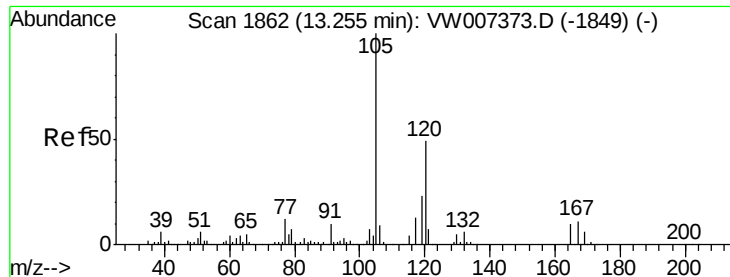
Ion Ratio Lower Upper

119 100

91 77.1 33.1 99.2

134 0.0 12.5 37.5#

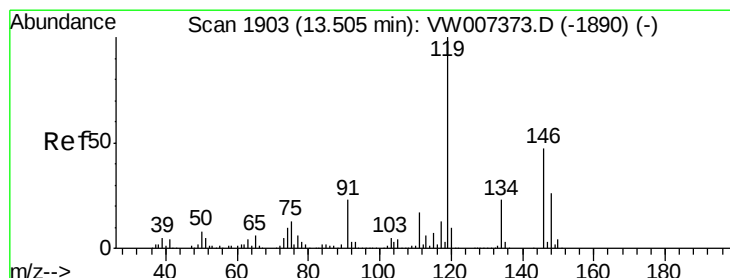
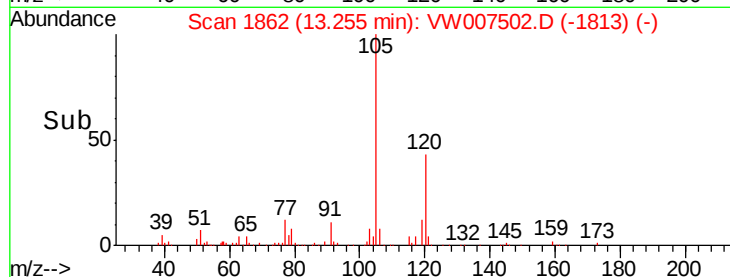
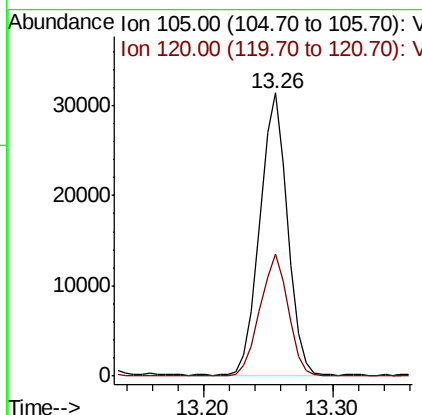
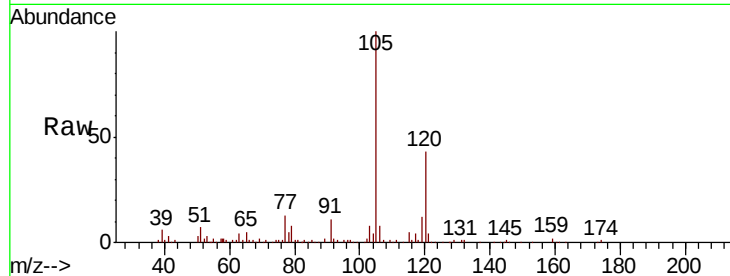




#84
1,2,4-Trimethylbenzene
Concen: 15.974 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

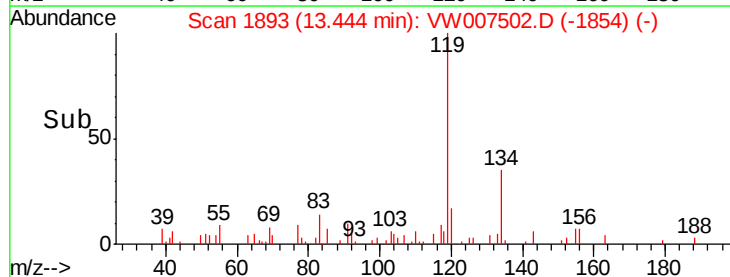
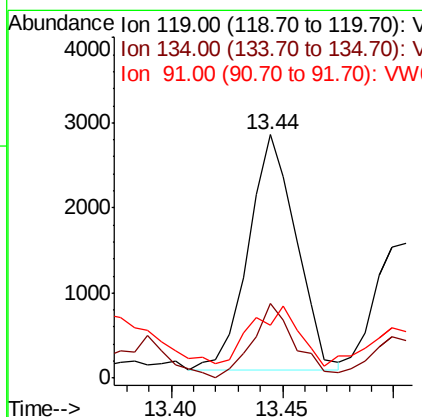
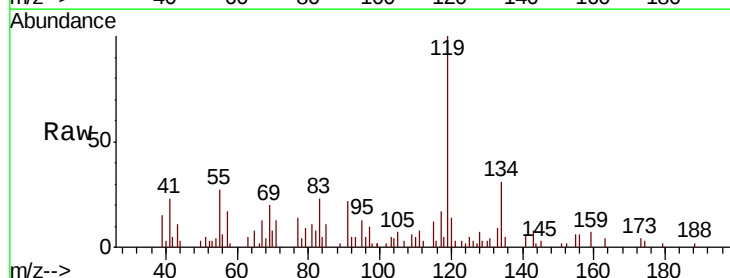
Instrument :
MSVOA_W
ClientSampleId :
SU-04-121218-BRE

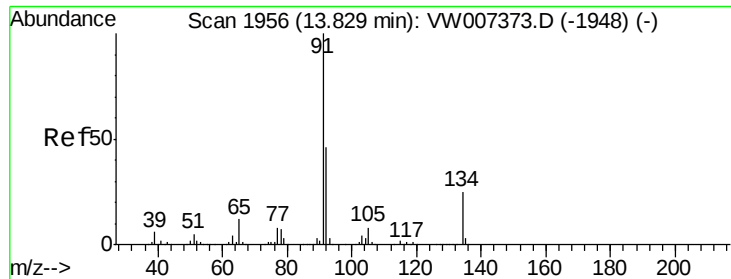
Tot Ion:105 Resp: 46302
Ion Ratio Lower Upper
105 100
120 44.3 22.6 67.7



#86
p-Isopropyltoluene
Concen: 1.348 ug/l
RT: 13.44 min Scan# 1893
Delta R.T. -0.06 min
Lab File: VW007502.D
Acq: 13 Dec 2018 23:23

Tgt Ion:119 Resp: 4104
Ion Ratio Lower Upper
119 100
134 28.6 12.9 38.7
91 26.0 11.9 35.9





#89

n-Butylbenzene

Concen: 1.469 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW007502.D

Acq: 13 Dec 2018 23:23

Instrument :

MSVOA_W

ClientSampleId :

SU-04-121218-BRE

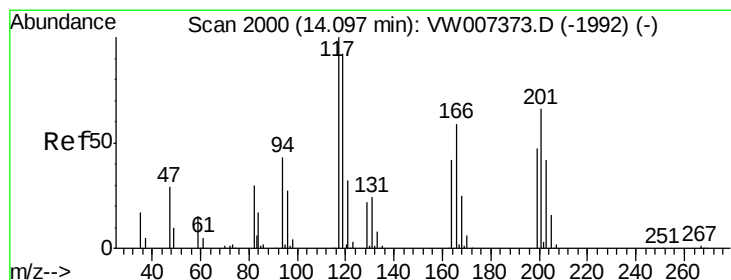
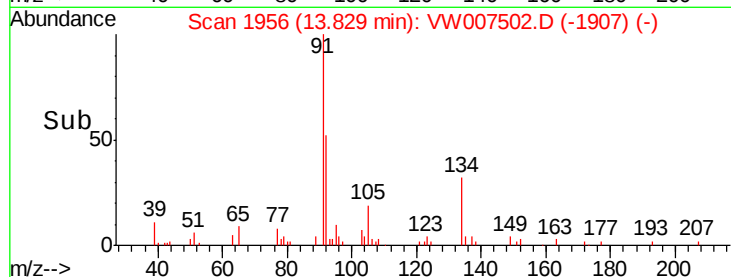
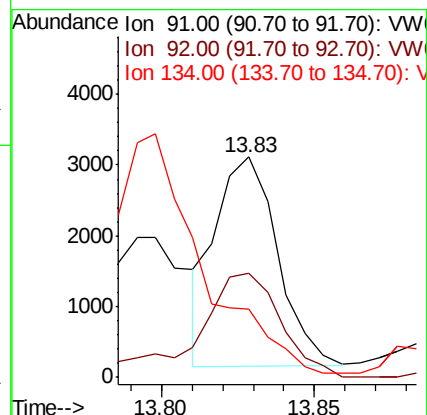
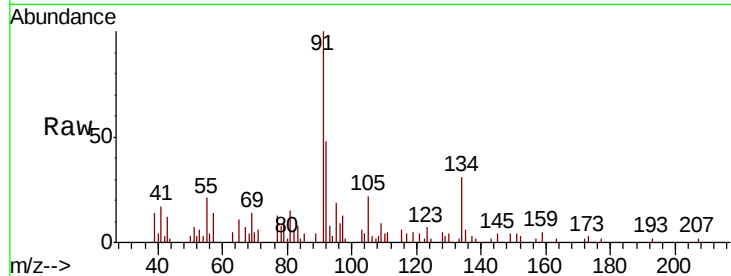
Tot Ion: 91 Resp: 4145

Ion Ratio Lower Upper

91 100

92 67.2 25.7 77.1

134 0.0 13.4 40.2#



#90

Hexachloroethane

Concen: 2.986 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW007502.D

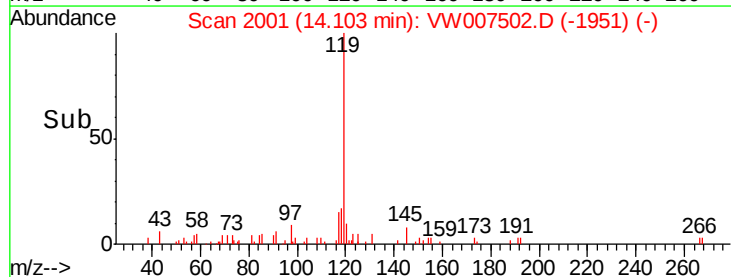
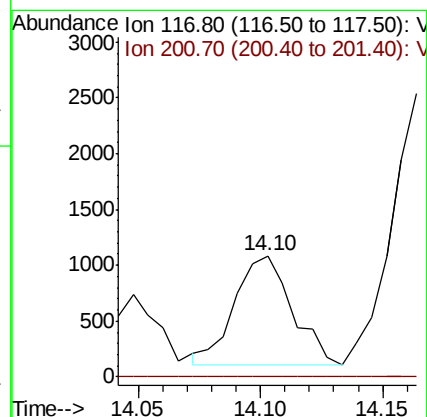
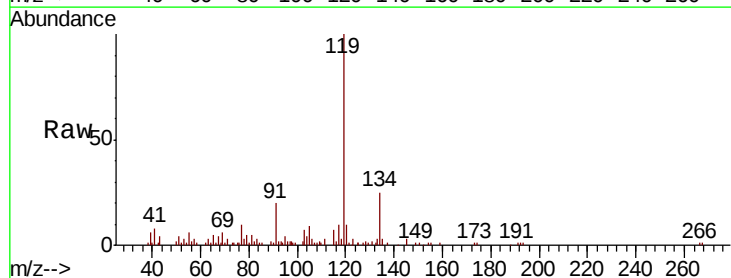
Acq: 13 Dec 2018 23:23

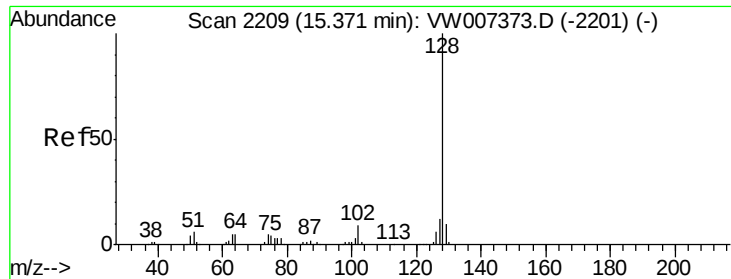
Tgt Ion: 117 Resp: 1617

Ion Ratio Lower Upper

117 100

201 0.0 35.3 105.9#

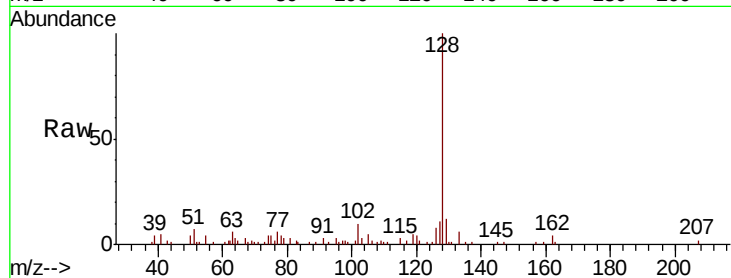




#95
 Naphthalene
 Concen: 7.185 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.01 min
 Lab File: VW007502.D
 Acq: 13 Dec 2018 23:23

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-04-121218-BRE

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.2	15.4
129	10.4	8.3	12.5



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

