

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081219\
 Data File : VW011859.D
 Acq On : 12 Aug 2019 18:15
 Operator : SY/VA
 Sample : K4223-06RE
 Misc : 4.86G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 13 07:47:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	14554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	30383	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	15838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	7880	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	20166	120.67	ug/l	0.00
Spiked Amount			Recovery	=	241.34%	
35) Dibromofluoromethane	7.88	113	1303	7.64	ug/l	0.00
Spiked Amount			Recovery	=	15.28%	
50) Toluene-d8	10.32	98	13903	19.92	ug/l	0.00
Spiked Amount			Recovery	=	39.84%	
62) 4-Bromofluorobenzene	12.62	95	9219	37.05	ug/l	0.00
Spiked Amount			Recovery	=	74.10%	

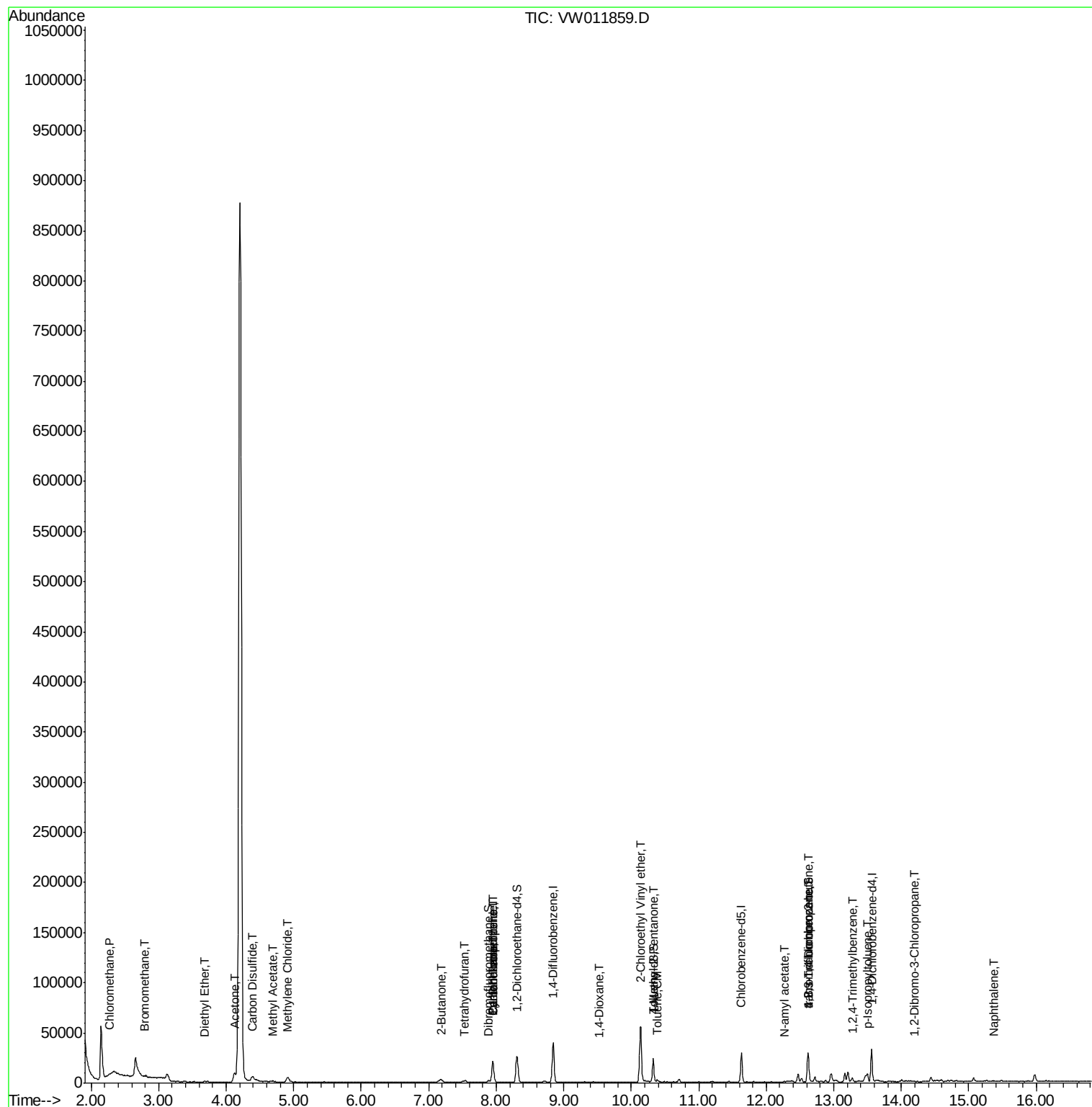
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.27	50	192	1.365	ug/l #	78
5) Bromomethane	2.78	94	162	1.728	ug/l #	49
8) Diethyl Ether	3.68	74	258	3.007	ug/l	65
11) Tert butyl alcohol	5.18	59	89	Below Cal	#	72
16) Acetone	4.12	43	17535	329.849	ug/l	98
17) Carbon Disulfide	4.39	76	4874	10.274	ug/l #	92
18) Methyl Acetate	4.69	43	2944	24.652	ug/l	98
20) Methylene Chloride	4.91	84	3076	16.778	ug/l	93
25) 2-Butanone	7.18	43	5290	76.047	ug/l	94
29) Tetrahydrofuran	7.54	42	1334	33.549	ug/l #	81
31) Cyclohexane	7.95	56	482	1.543	ug/l #	27
36) 1,1-Dichloropropene	7.95	75	1481	4.688	ug/l #	47
38) Carbon Tetrachloride	7.95	117	1657	6.127	ug/l #	13
49) 1,4-Dioxane	9.52	88	21	13.420	ug/l #	57
51) 4-Methyl-2-Pentanone	10.33	43	414	2.381	ug/l	96
52) Toluene	10.39	92	933	1.746	ug/l	93
58) 2-Chloroethyl Vinyl ether	10.15	63	253	2.483	ug/l #	51
74) N-amyl acetate	12.27	43	256	1.391	ug/l #	52
76) 1,2,3-Trichloropropane	12.62	75	5057	60.650	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	5057	139.778	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.27	105	602	1.213	ug/l #	32
86) p-Isopropyltoluene	13.50	119	4022	7.539	ug/l #	77
92) 1,2-Dibromo-3-Chloropropan	14.21	75	20	1.061	ug/l #	5
95) Naphthalene	15.36	128	348	3.138	ug/l #	69

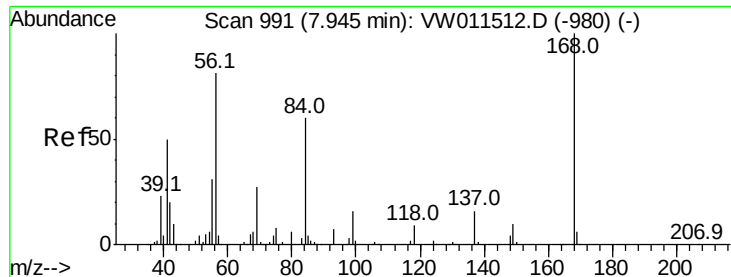
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

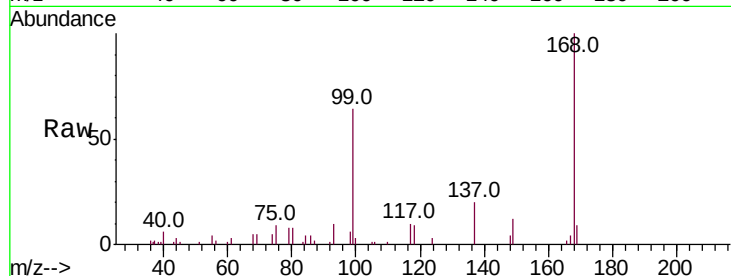
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 14554

Ion Ratio Lower Upper

168 100

99 63.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

6000

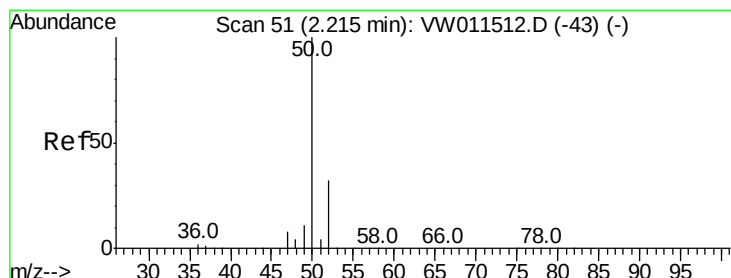
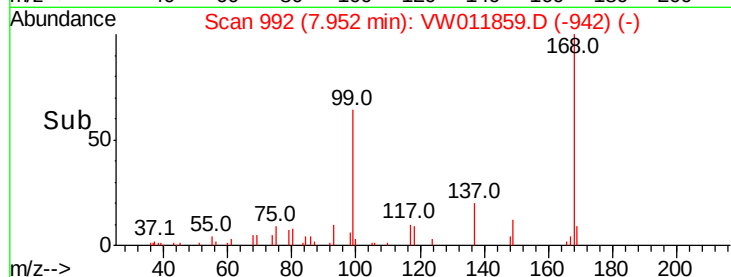
4000

2000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 1.365 ug/l

RT: 2.27 min Scan# 60

Delta R.T. 0.05 min

Lab File: VW011859.D

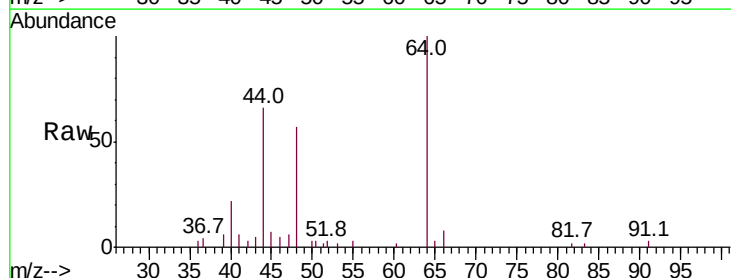
Acq: 12 Aug 2019 18:15

Tgt Ion: 50 Resp: 192

Ion Ratio Lower Upper

50 100

52 43.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.27

200

150

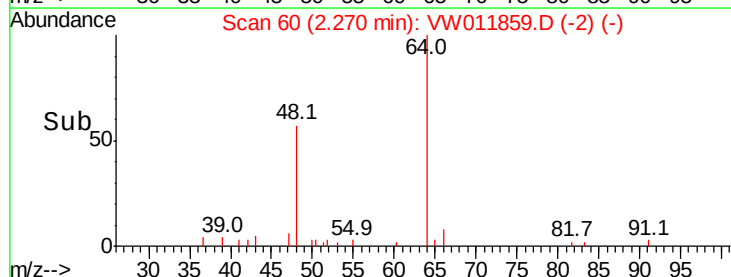
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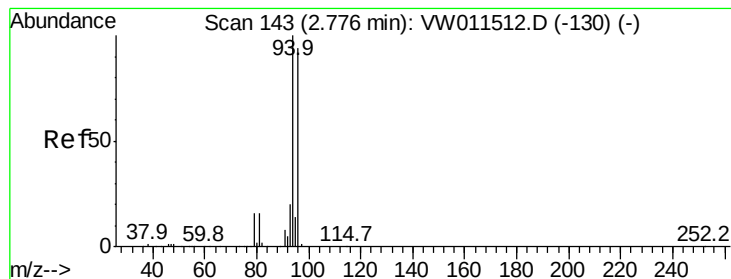
50

0

Time-->

2.24 2.25 2.26 2.27 2.28





#5

Bromomethane

Concen: 1.728 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

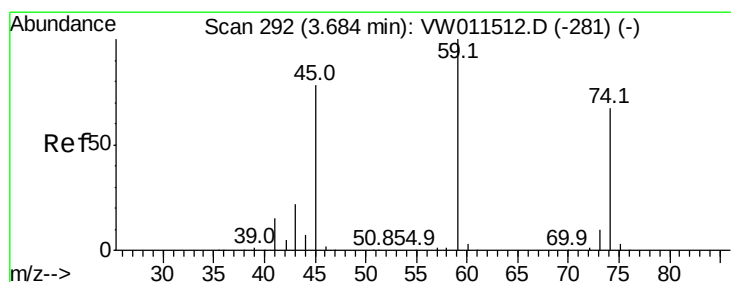
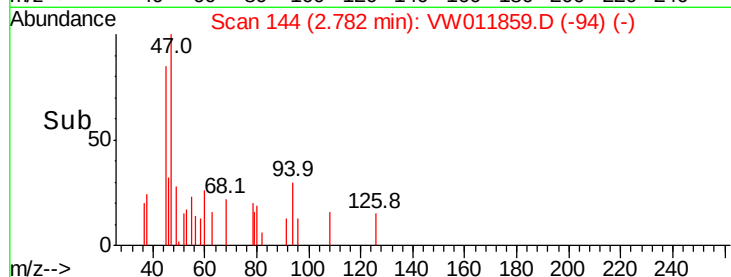
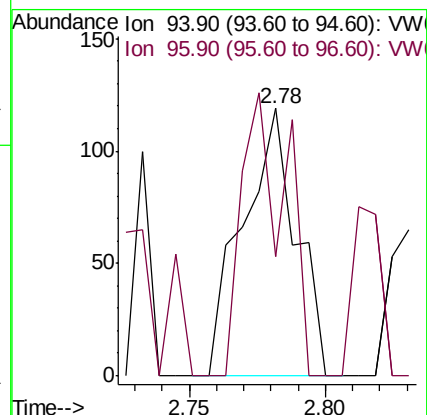
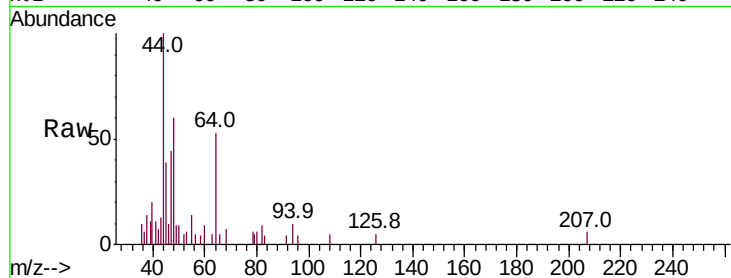
ClientSampled :

Tot Ion: 94 Resp: 162

Ion Ratio Lower Upper

94 100

96 44.5 75.0 112.6#



#8

Diethyl Ether

Concen: 3.007 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW011859.D

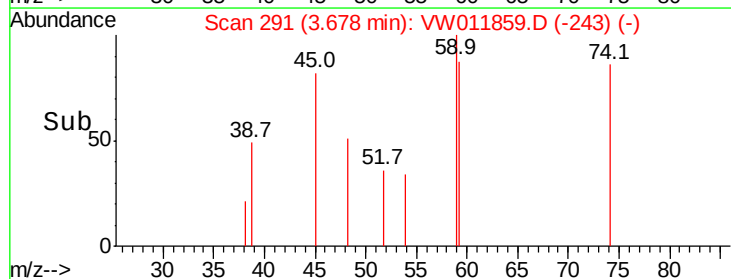
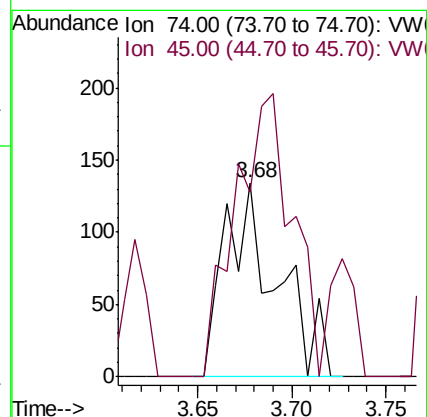
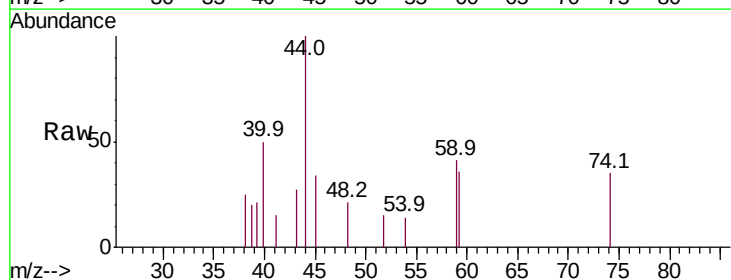
Acq: 12 Aug 2019 18:15

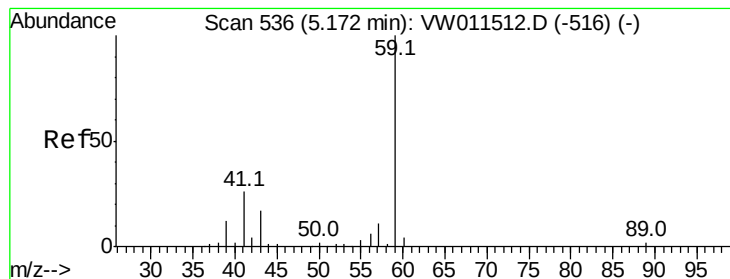
Tgt Ion: 74 Resp: 258

Ion Ratio Lower Upper

74 100

45 157.8 59.6 178.8



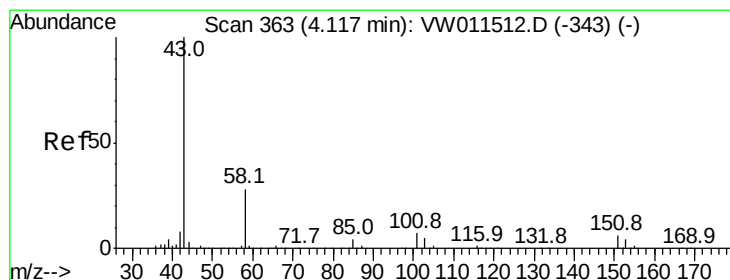
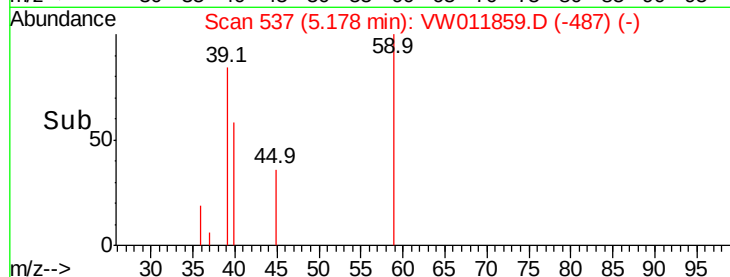
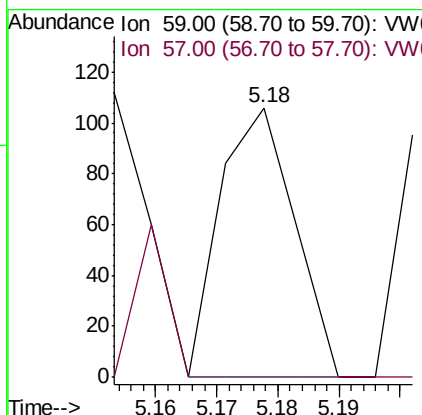
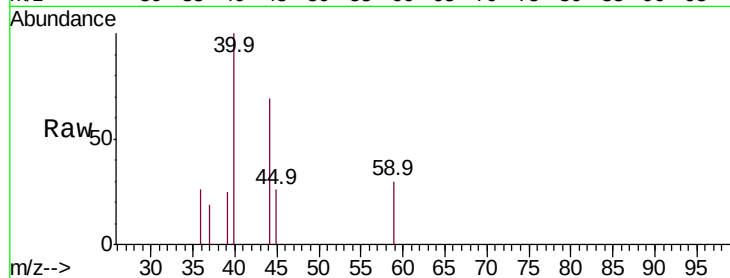


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

Instrument :
 MSVOA_W
 ClientSampled :

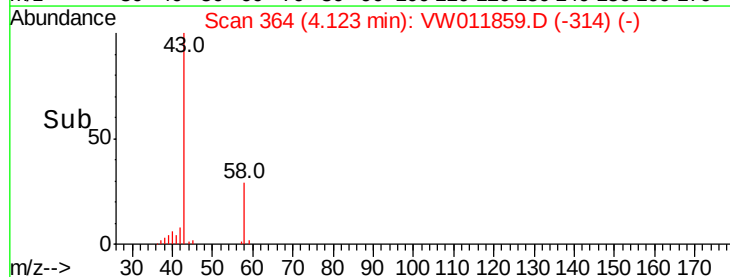
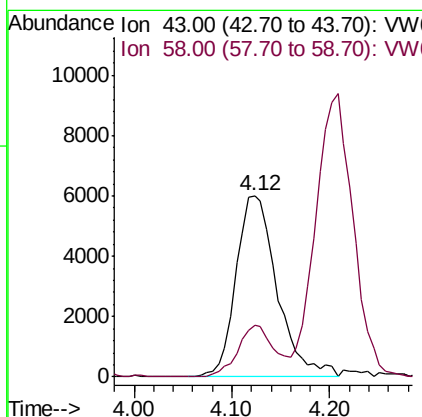
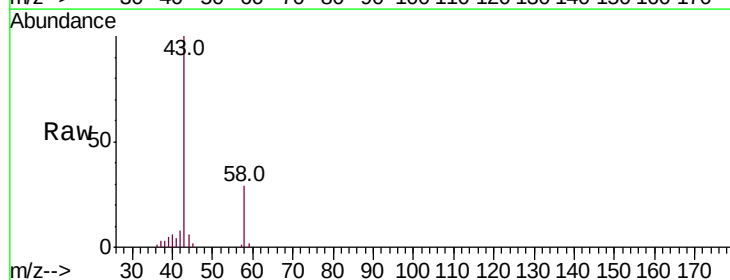
Tot Ion: 59 Resp: 89
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

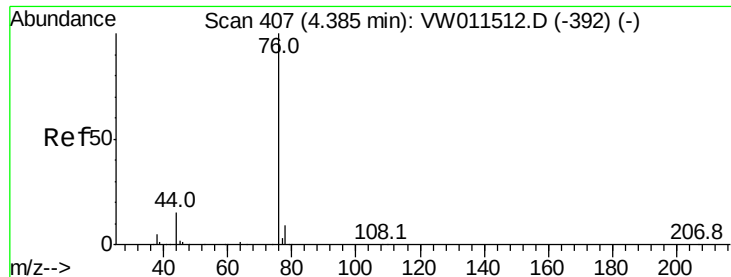


#16

Acetone
 Concen: 329.849 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

Tgt Ion: 43 Resp: 17535
 Ion Ratio Lower Upper
 43 100
 58 28.9 22.3 33.5





#17

Carbon Disulfide

Concen: 10.274 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

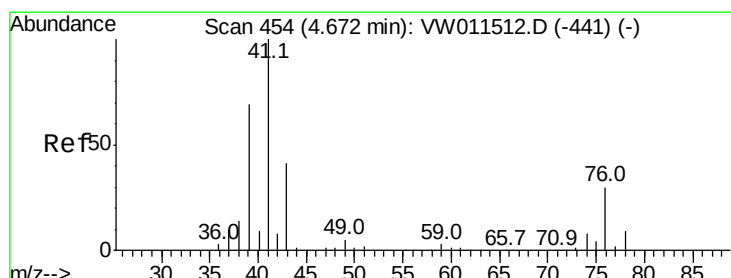
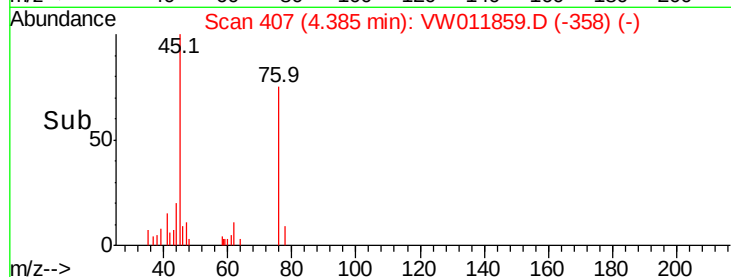
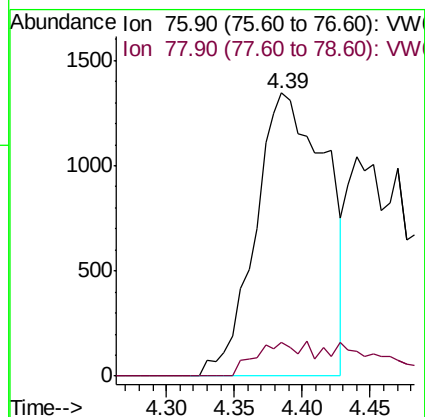
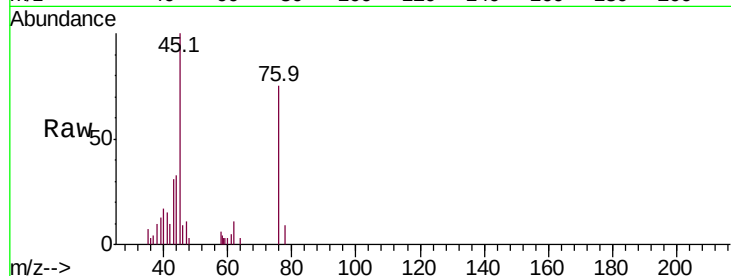
ClientSampled :

Tot Ion: 76 Resp: 4874

Ion Ratio Lower Upper

76 100

78 11.7 7.1 10.7#



#18

Methyl Acetate

Concen: 24.652 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.02 min

Lab File: VW011859.D

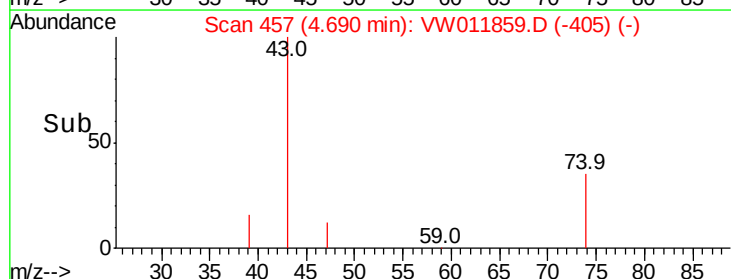
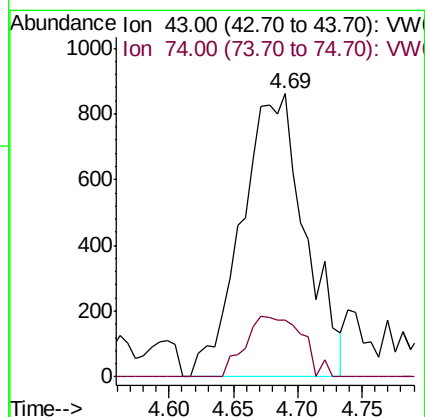
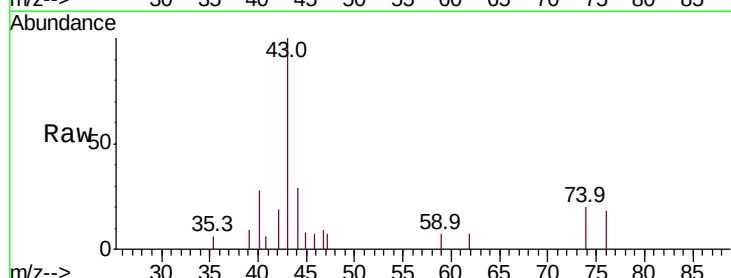
Acq: 12 Aug 2019 18:15

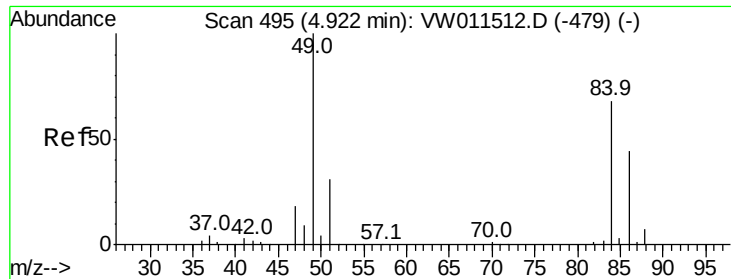
Tgt Ion: 43 Resp: 2944

Ion Ratio Lower Upper

43 100

74 19.2 15.9 23.9

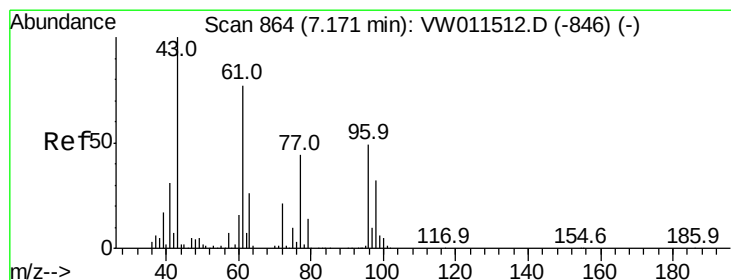
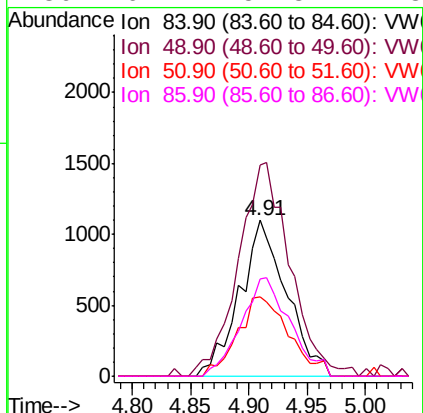
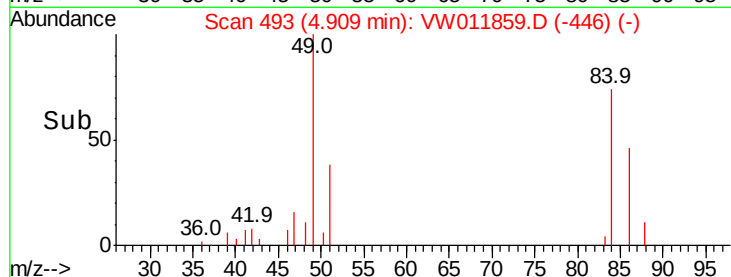
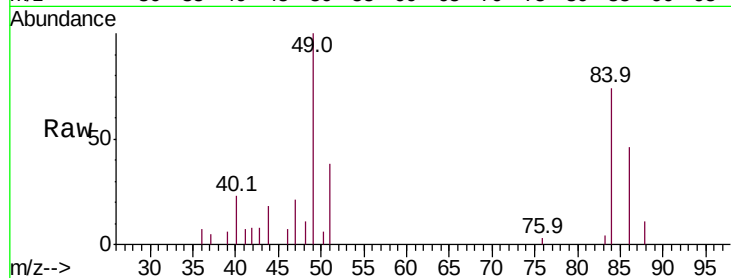




#20
Methvlene Chloride
Concen: 16.778 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011859.D
Acq: 12 Aug 2019 18:15

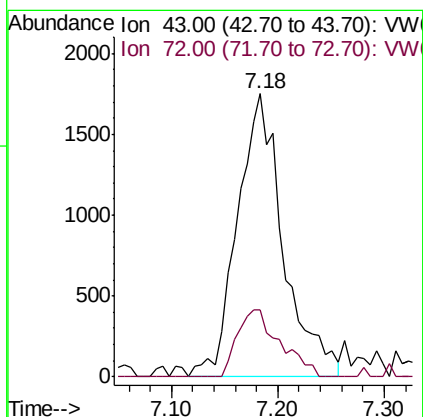
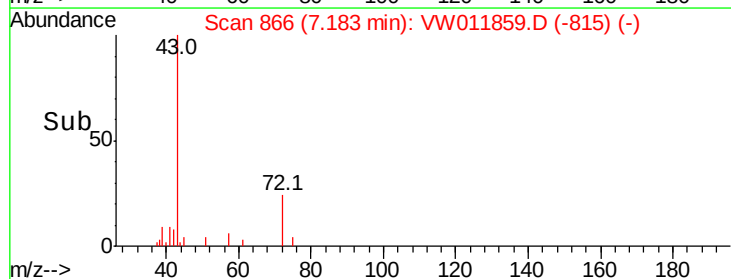
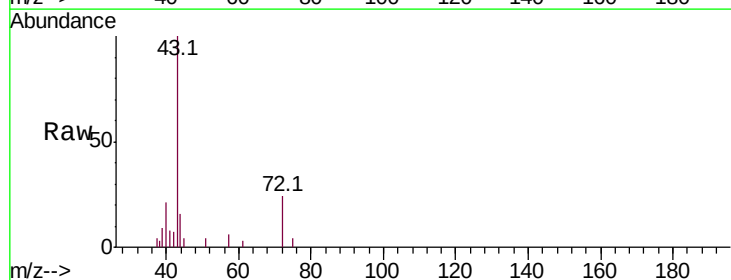
Instrument :
MSVOA_W
ClientSampled :

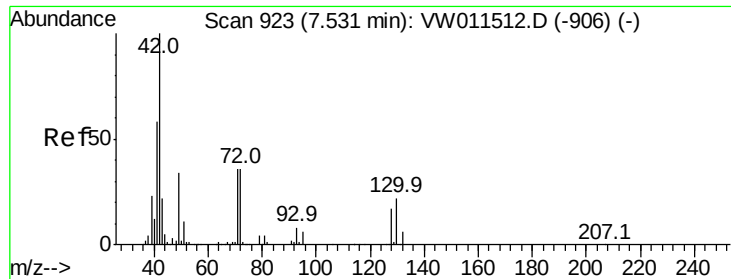
Tot Ion: 84 Resp: 3076
Ion Ratio Lower Upper
84 100
49 135.4 117.8 176.6
51 50.8 37.0 55.4
86 62.1 51.8 77.8



#25
2-Butanone
Concen: 76.047 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW011859.D
Acq: 12 Aug 2019 18:15

Tgt Ion: 43 Resp: 5290
Ion Ratio Lower Upper
43 100
72 23.7 16.6 24.8

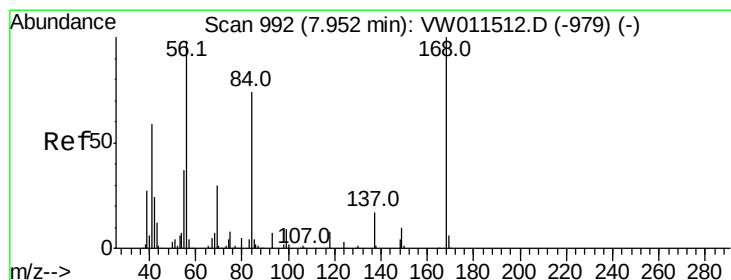
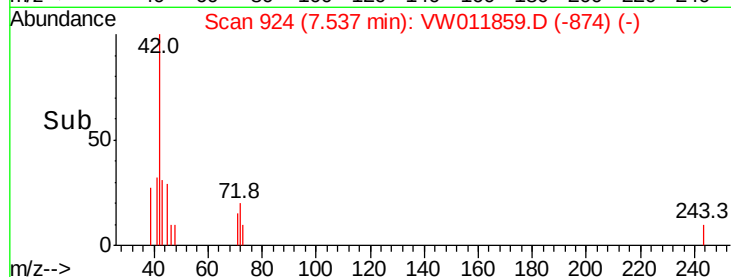
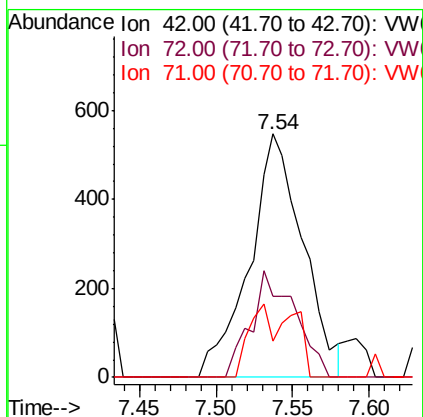
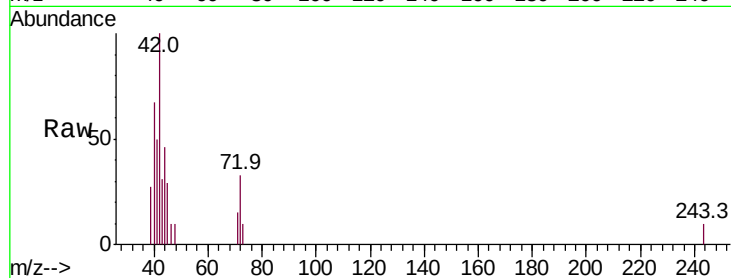




#29
Tetrahydrofuran
Concen: 33.549 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW011859.D
Acq: 12 Aug 2019 18:15

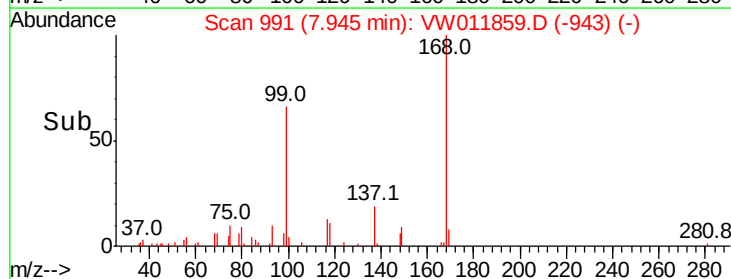
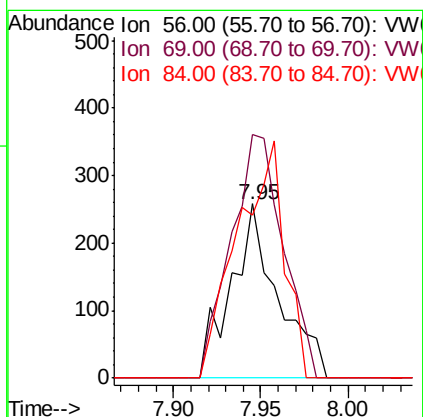
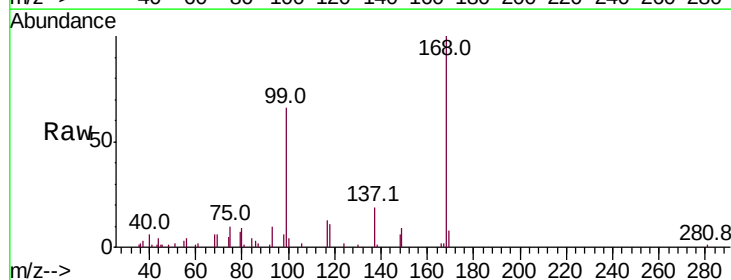
Instrument :
MSVOA_W
ClientSampleId :

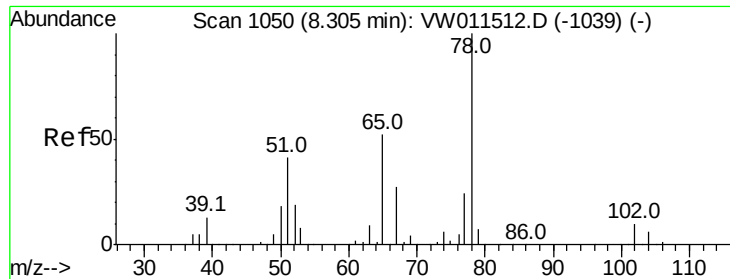
Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	27.1	40.7
71	12.9	26.2	39.4



#31
Cyclohexane
Concen: 1.543 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW011859.D
Acq: 12 Aug 2019 18:15

Tgt Ion	Ratio	Lower	Upper
56	100		
69	139.9	24.3	36.5
84	93.4	60.4	90.6

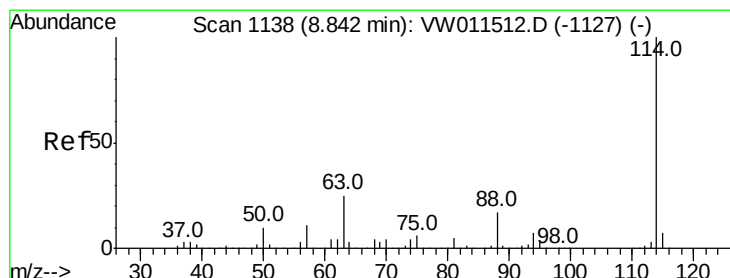
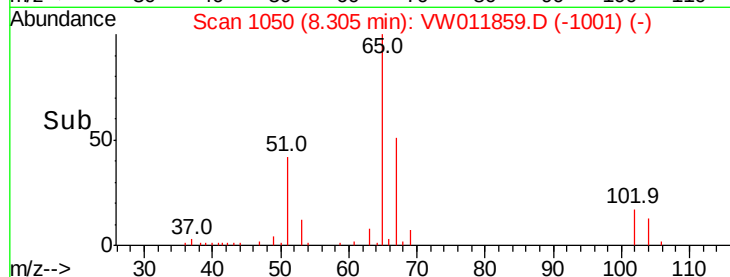
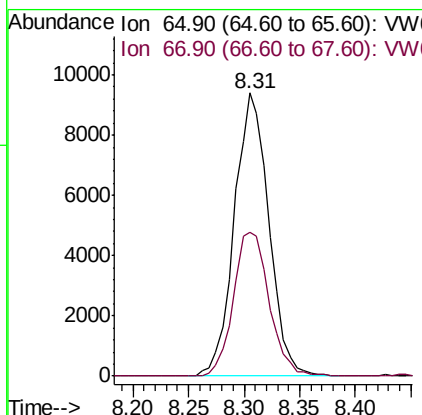
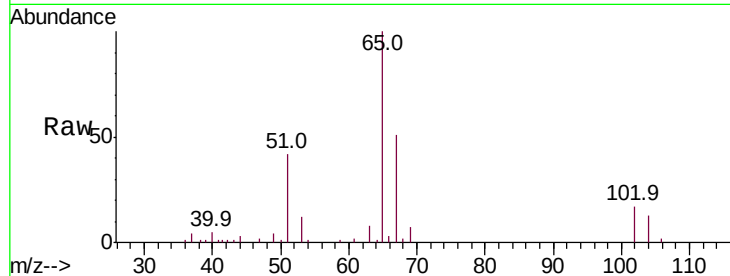




#33
 1,2-Dichloroethane-d4
 Concen: 120.667 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

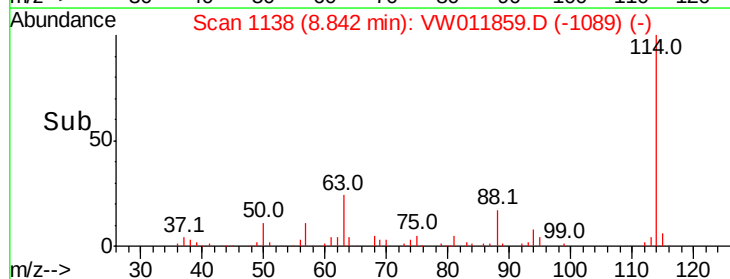
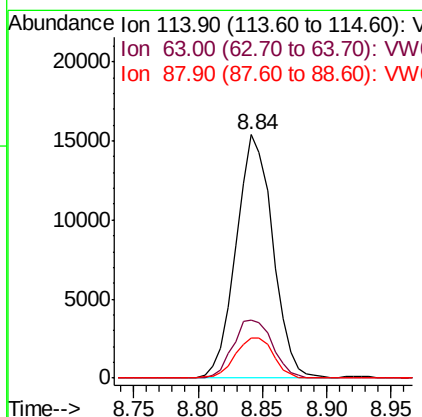
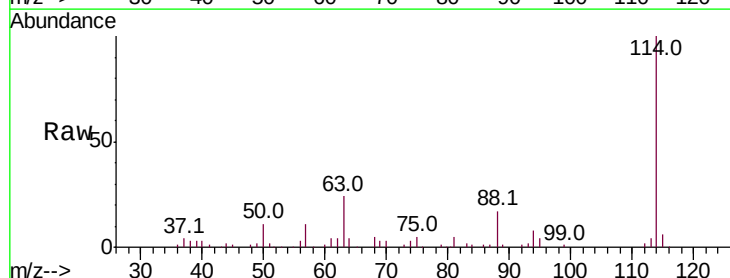
Instrument :
 MSVOA_W
 ClientSampled :

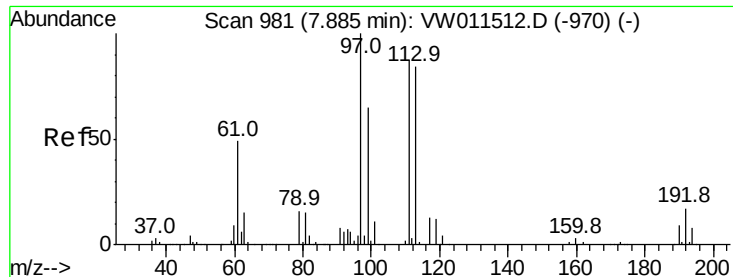
Tot Ion: 65 Resp: 20166
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

Tgt Ion: 114 Resp: 30383
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 49.2
 88 16.7 0.0 33.8





#35

Dibromofluoromethane

Concen: 7.644 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :
MSVOA_W
ClientSampleId :

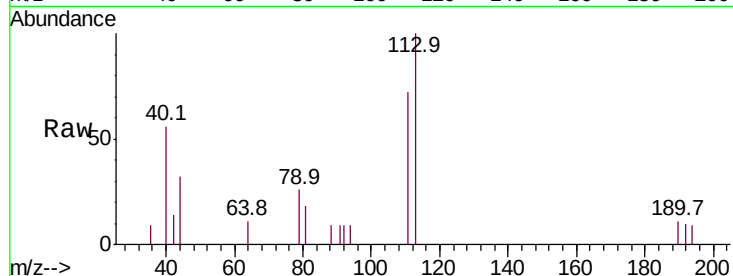
Tot Ion:113 Resp: 1303

Ion Ratio Lower Upper

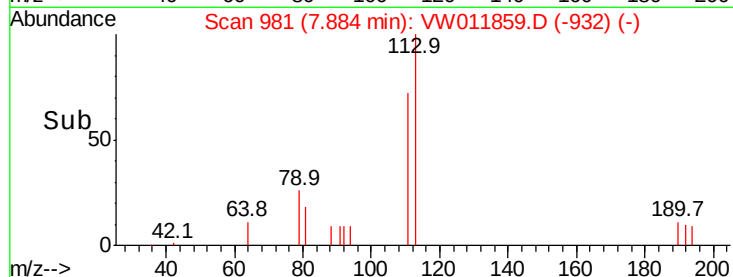
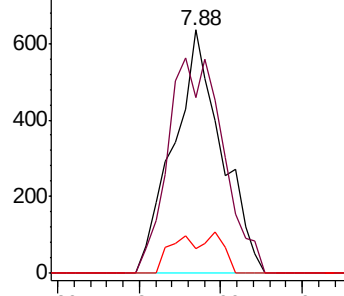
113 100

111 101.7 82.7 124.1

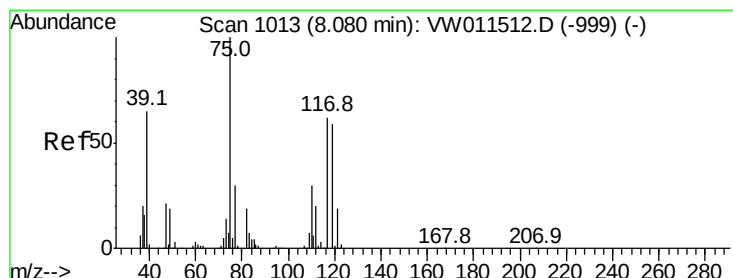
192 8.7 16.1 24.1#



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



Time--> 7.80 7.85 7.90 7.95



#36

1,1-Dichloropropene

Concen: 4.688 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

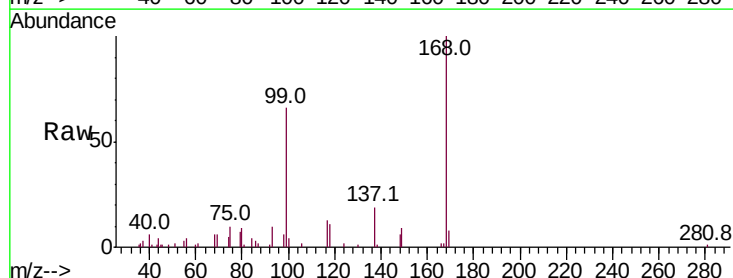
Tgt Ion: 75 Resp: 1481

Ion Ratio Lower Upper

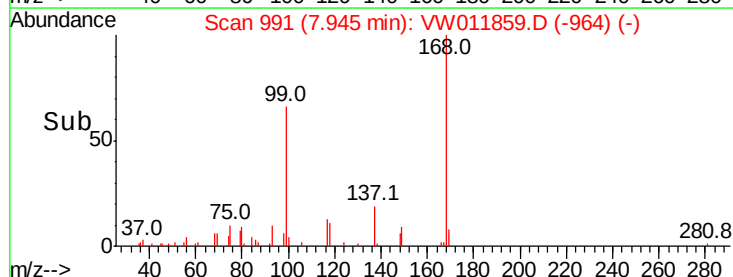
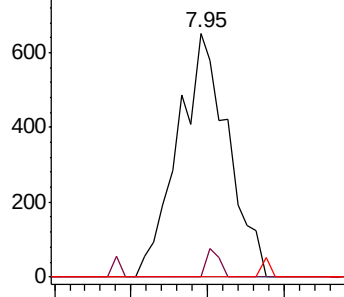
75 100

110 3.1 15.6 46.8#

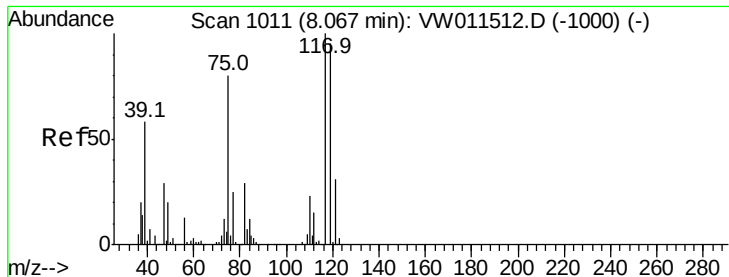
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW



Time--> 7.85 7.90 7.95 8.00



#38

Carbon Tetrachloride

Concen: 6.127 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

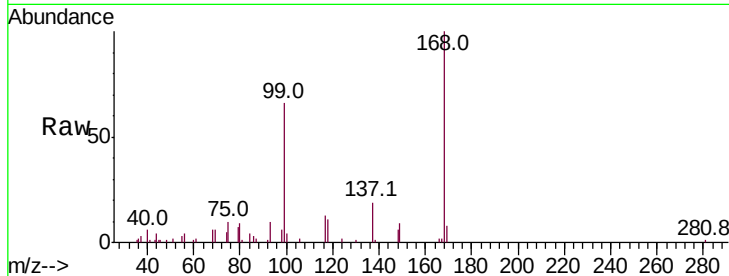
Tot Ion:117 Resp: 1657

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

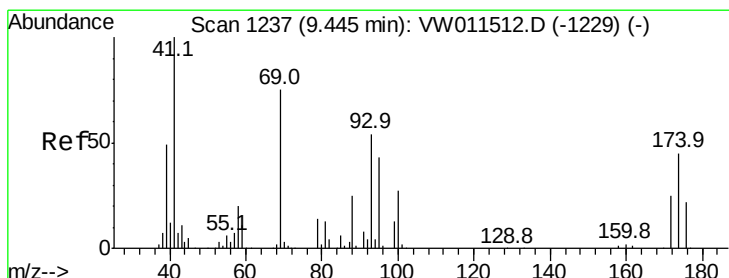
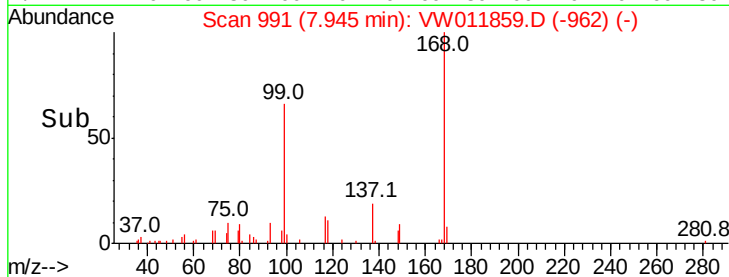
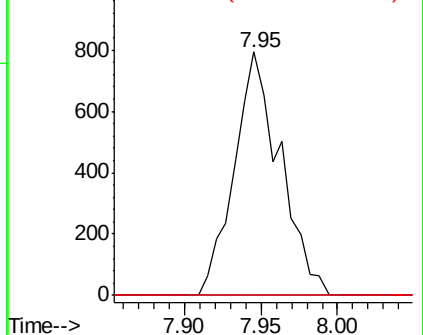
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 13.420 ug/l

RT: 9.52 min Scan# 1250

Delta R.T. 0.08 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

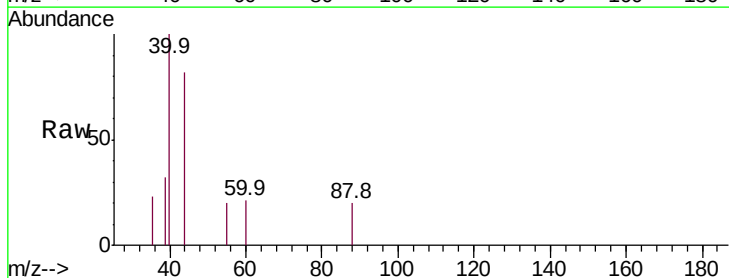
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 114.3 34.0 51.0#

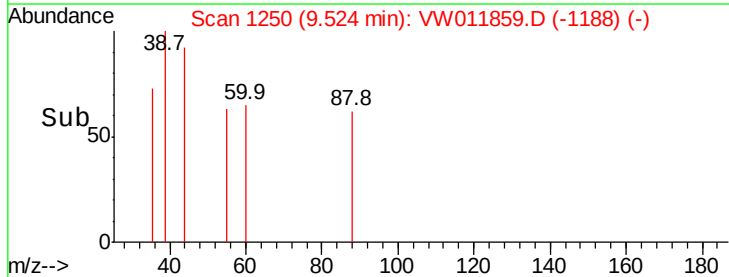
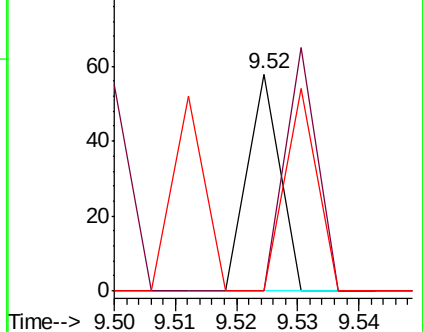
58 95.2 69.7 104.5

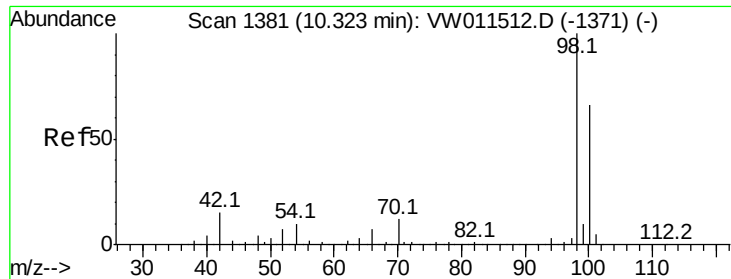


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 19.922 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

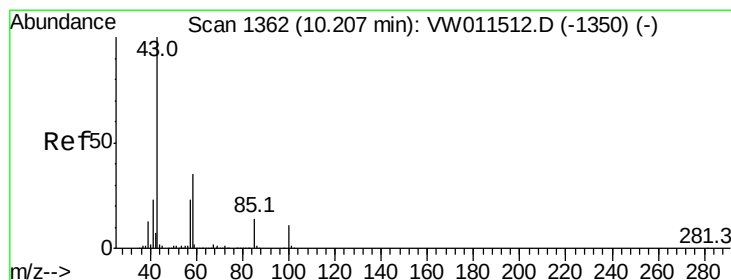
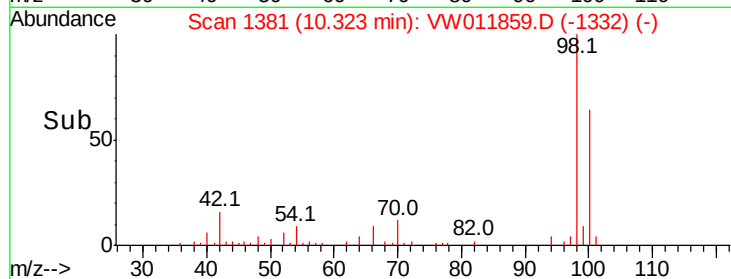
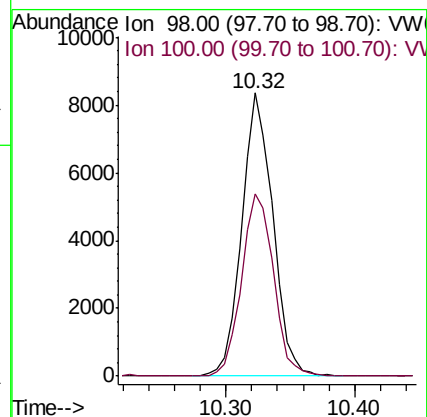
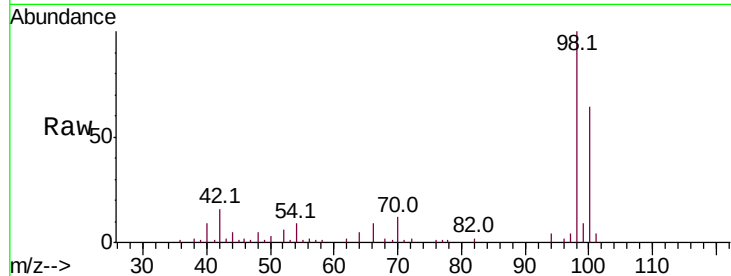
ClientSampled :

Tot Ion: 98 Resp: 13903

Ion Ratio Lower Upper

98 100

100 66.0 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 2.381 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.12 min

Lab File: VW011859.D

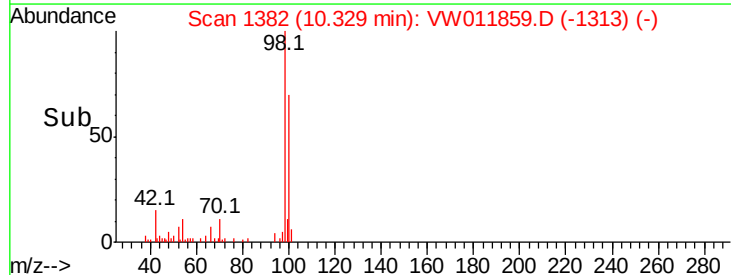
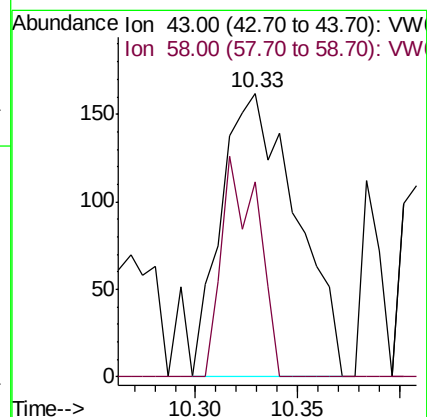
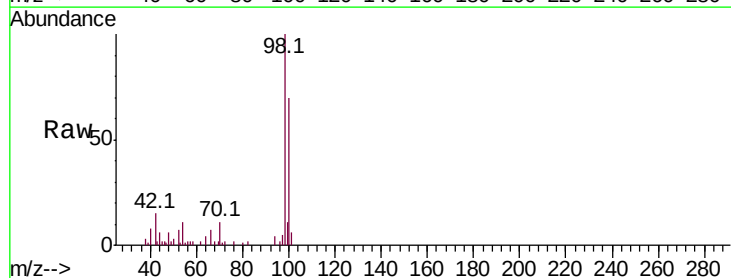
Acq: 12 Aug 2019 18:15

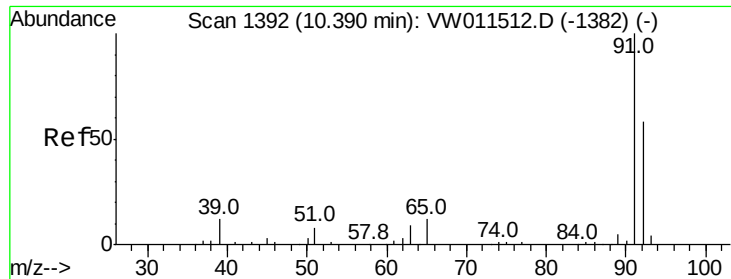
Tgt Ion: 43 Resp: 414

Ion Ratio Lower Upper

43 100

58 37.7 28.2 42.2





#52

Toluene

Concen: 1.746 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

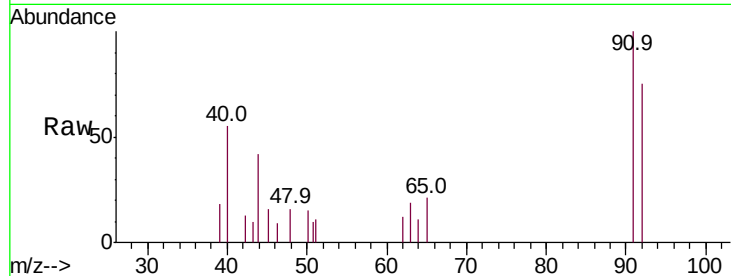
ClientSampled :

Tot Ion: 92 Resp: 933

Ion Ratio Lower Upper

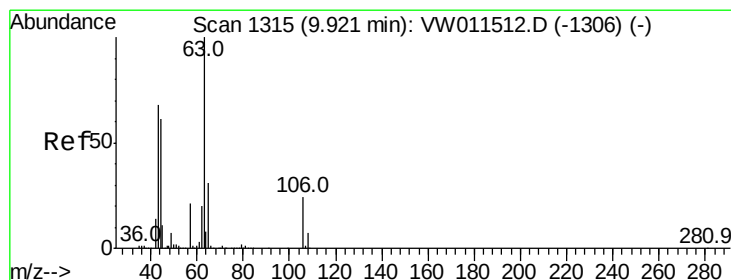
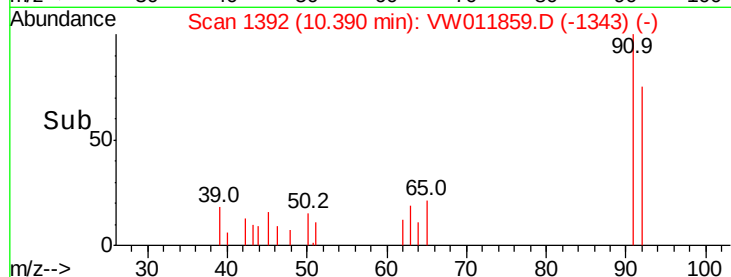
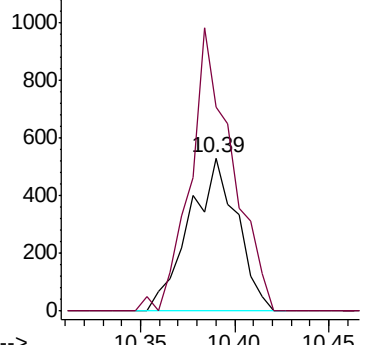
92 100

91 161.2 136.7 205.1



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#58

2-Chloroethyl Vinyl ether

Concen: 2.483 ug/l

RT: 10.15 min Scan# 1352

Delta R.T. 0.23 min

Lab File: VW011859.D

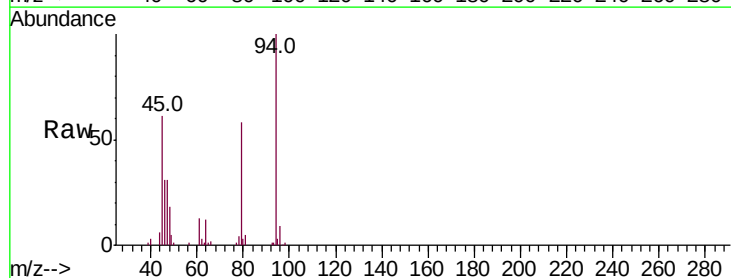
Acq: 12 Aug 2019 18:15

Tgt Ion: 63 Resp: 253

Ion Ratio Lower Upper

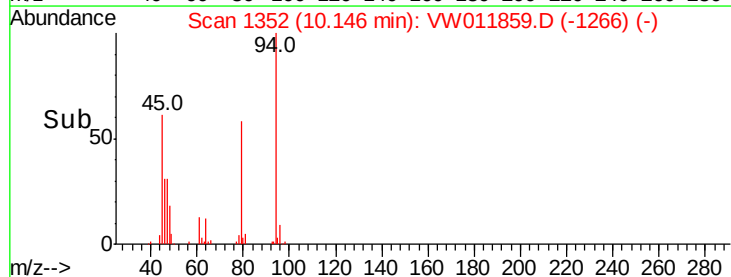
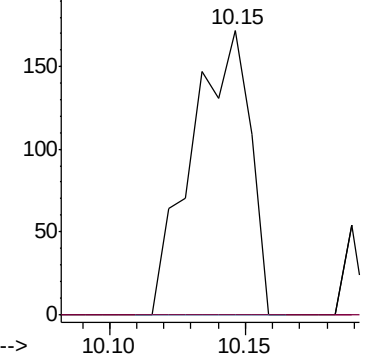
63 100

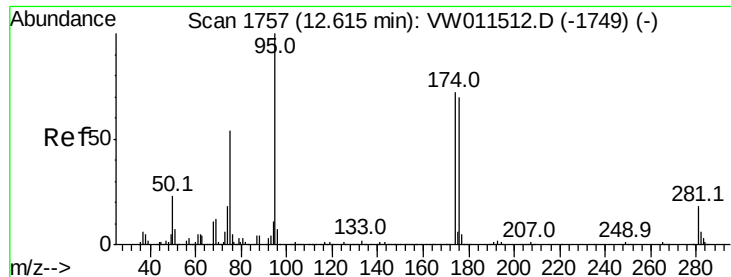
106 0.0 19.7 29.5#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V

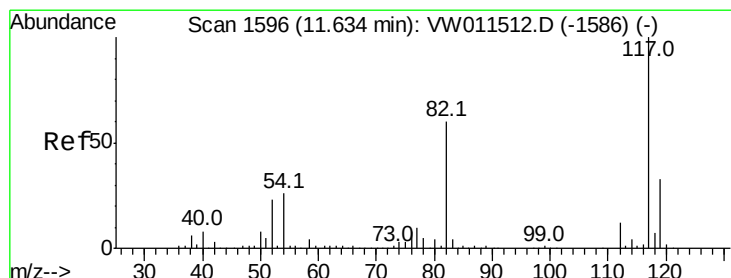
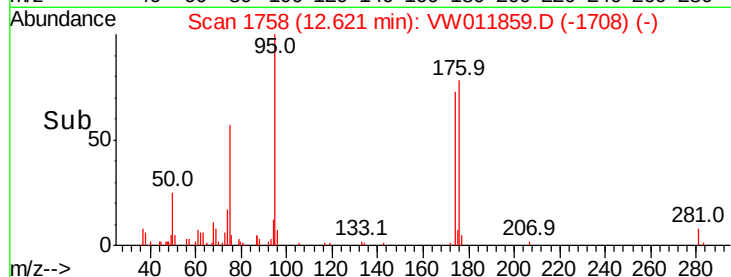
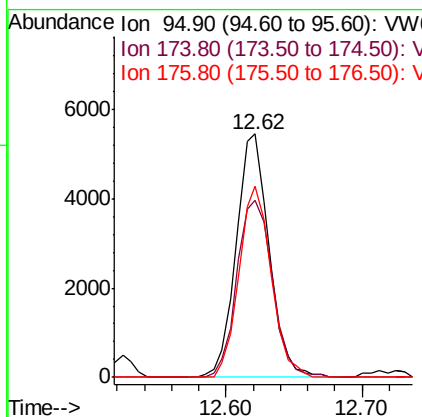
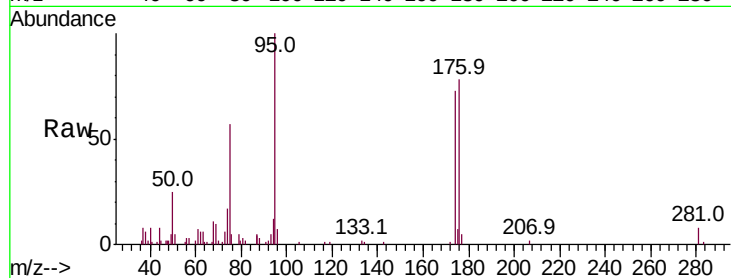




#62
4-Bromofluorobenzene
Concen: 37.052 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW011859.D
Acq: 12 Aug 2019 18:15

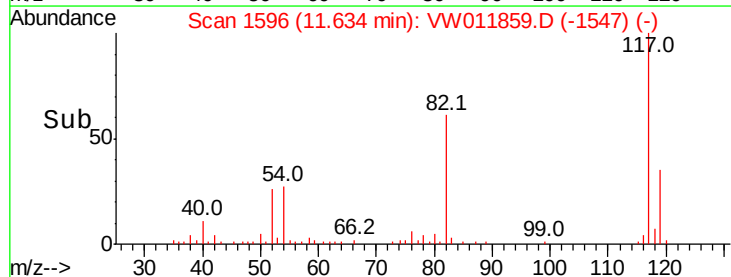
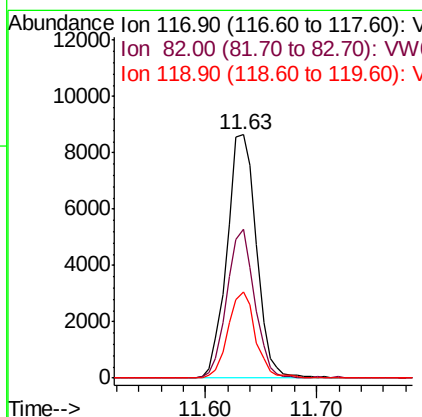
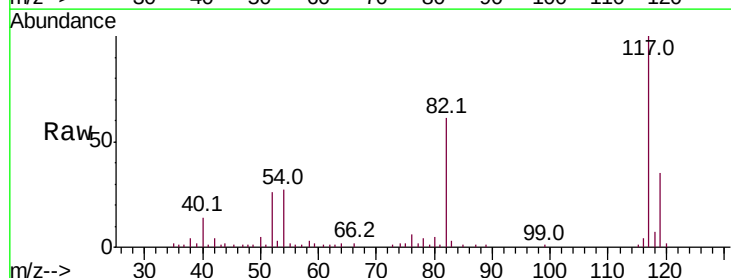
Instrument :
MSVOA_W
ClientSampleId :

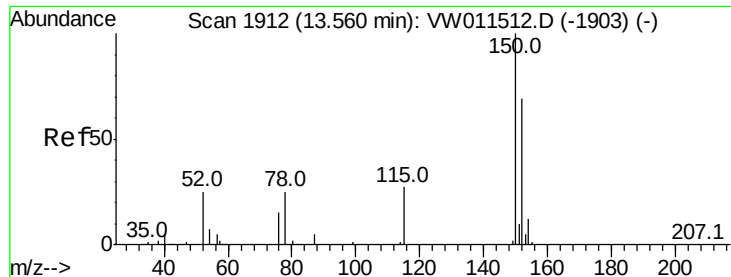
Tot Ion: 95 Resp: 9219
Ion Ratio Lower Upper
95 100
174 78.7 0.0 150.2
176 76.3 0.0 144.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011859.D
Acq: 12 Aug 2019 18:15

Tgt Ion: 117 Resp: 15838
Ion Ratio Lower Upper
117 100
82 61.0 47.9 71.9
119 35.4 26.2 39.2

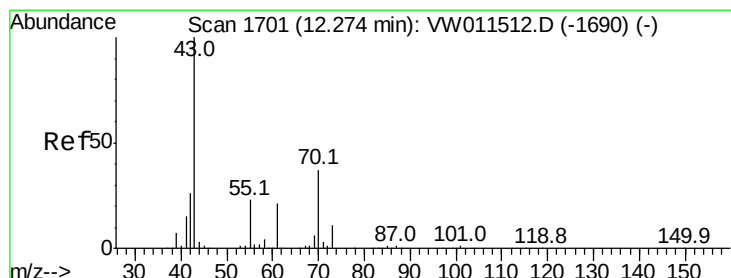
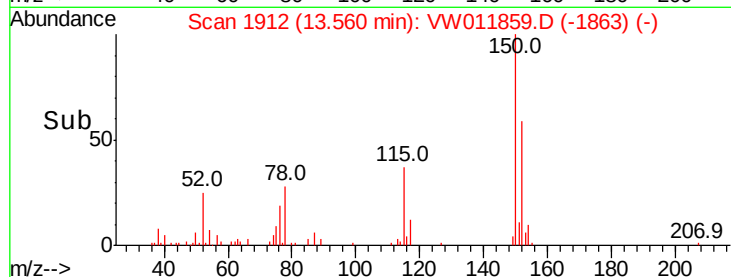
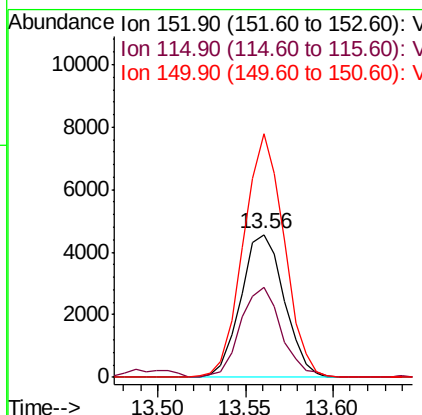
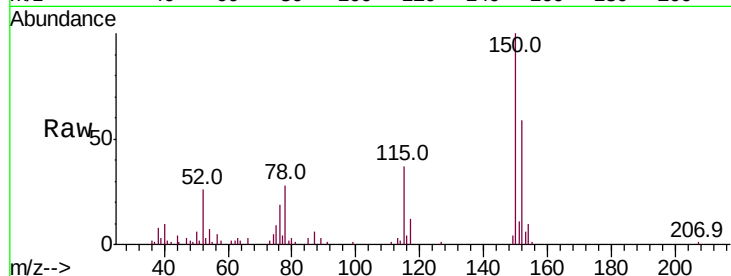




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

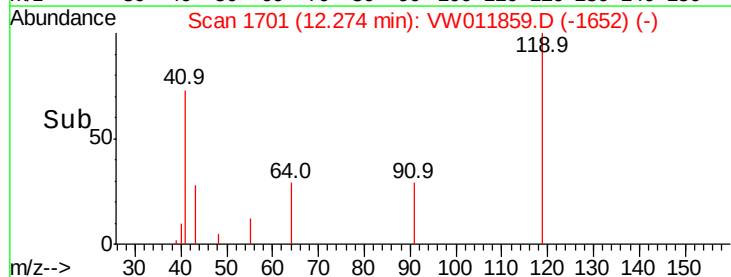
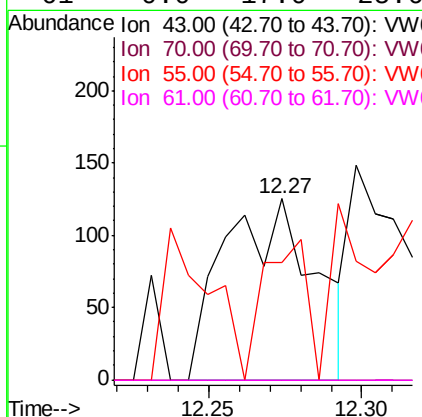
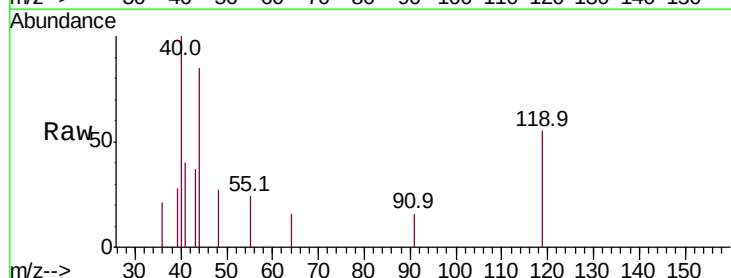
Instrument :
 MSVOA_W
 ClientSampleId :

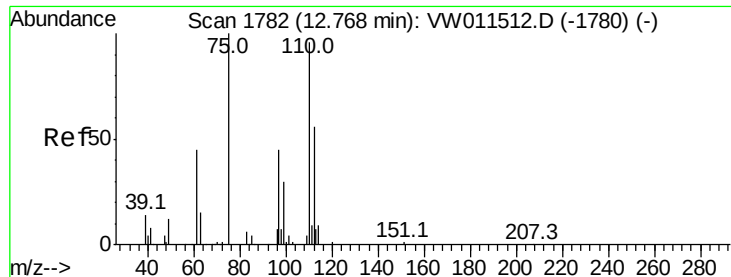
Tot Ion:152 Resp: 7880
 Ion Ratio Lower Upper
 152 100
 115 59.8 30.5 91.5
 150 160.0 0.0 352.6



#74
 N-aryl acetate
 Concen: 1.391 ug/l
 RT: 12.27 min Scan# 1701
 Delta R.T. -0.00 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

Tgt Ion: 43 Resp: 256
 Ion Ratio Lower Upper
 43 100
 70 0.0 28.6 43.0#
 55 37.1 17.8 26.8#
 61 0.0 17.0 25.6#





#76

1,2,3-Trichloropropane

Concen: 60.650 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

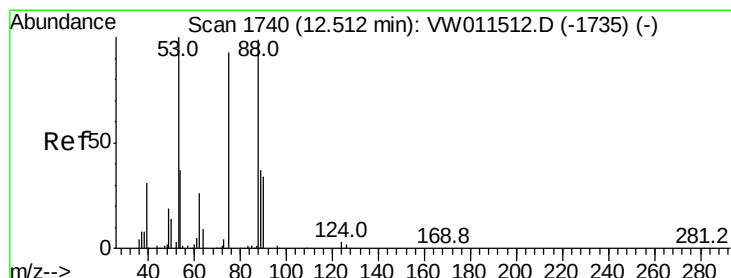
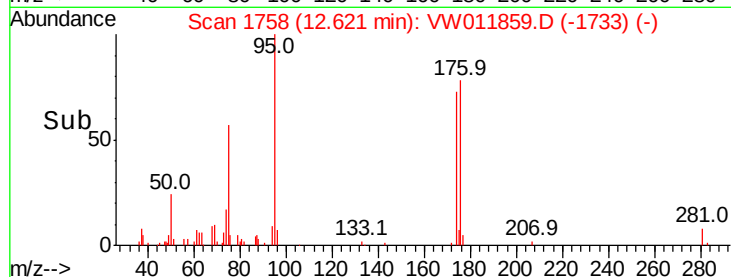
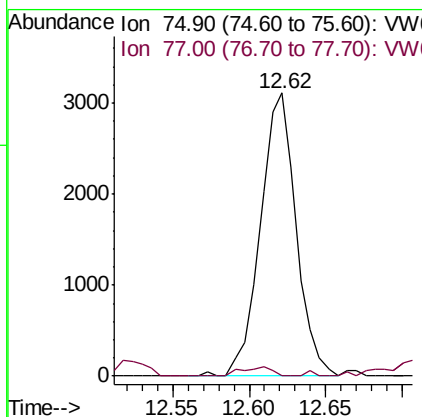
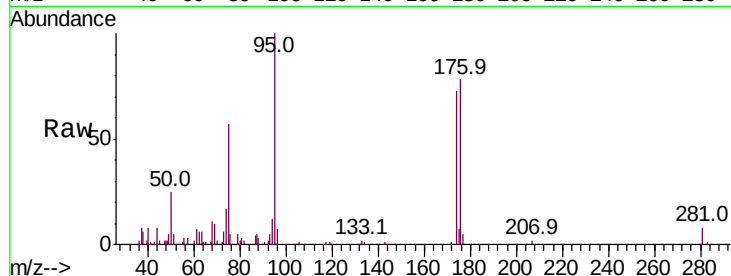
ClientSampleId :

Tot Ion: 75 Resp: 5057

Ion Ratio Lower Upper

75 100

77 2.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 139.778 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

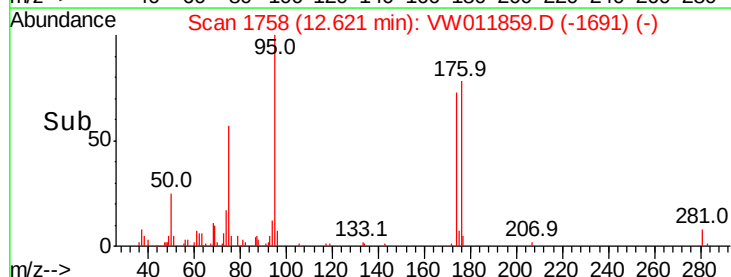
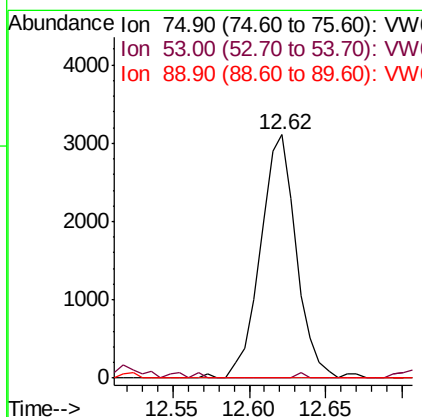
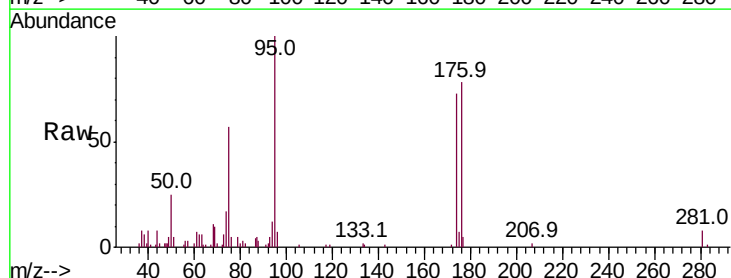
Tgt Ion: 75 Resp: 5057

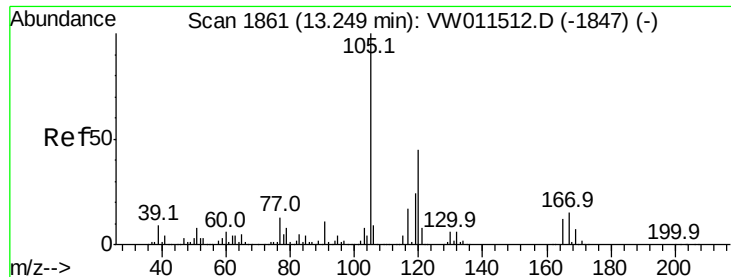
Ion Ratio Lower Upper

75 100

53 0.5 88.0 132.0#

89 0.0 35.3 52.9#

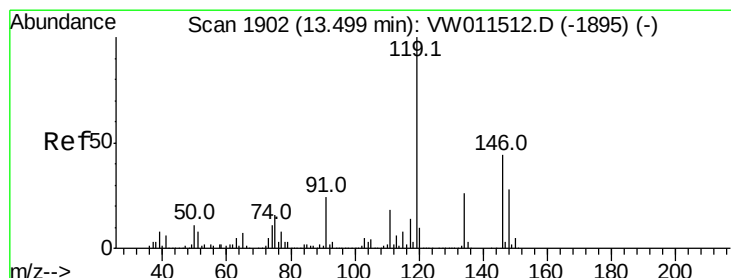
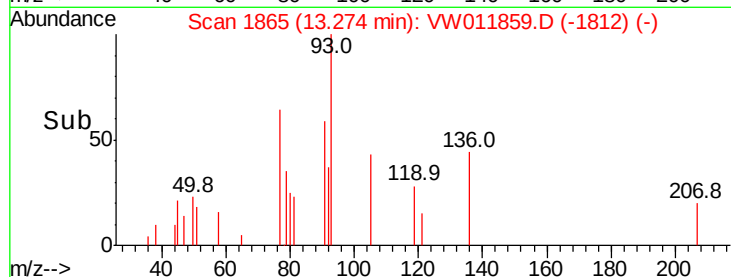
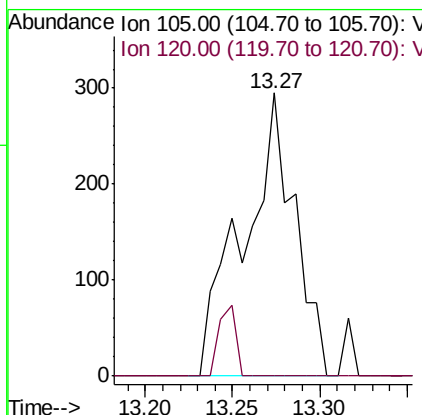
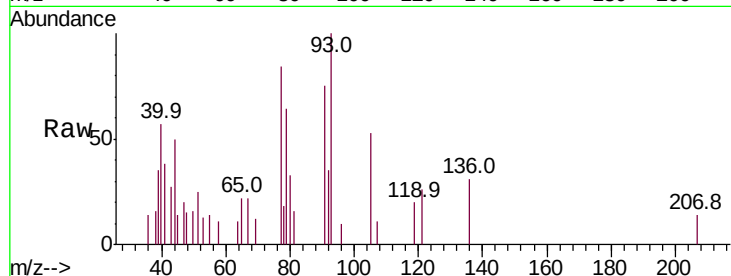




#84
 1,2,4-Trimethylbenzene
 Concen: 1.213 ug/l
 RT: 13.27 min Scan# 1865
 Delta R.T. 0.02 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

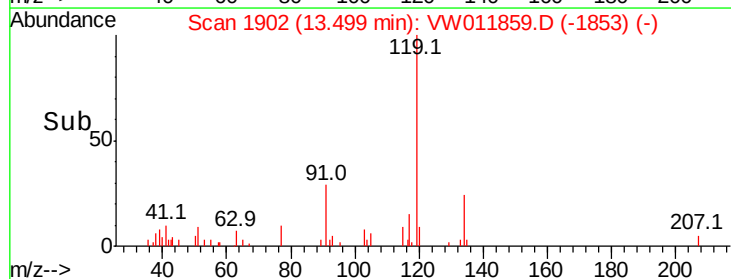
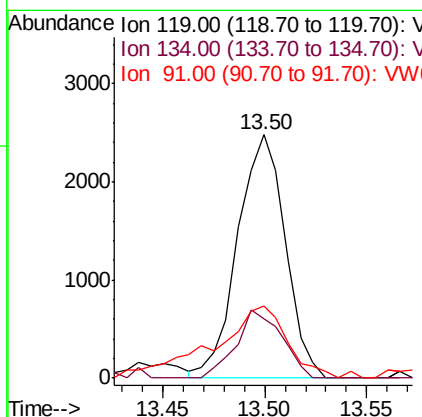
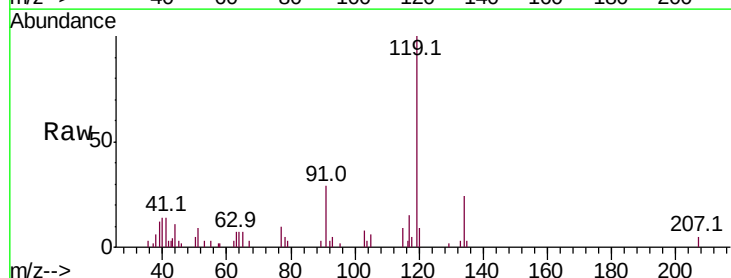
Instrument :
 MSVOA_W
 ClientSampled :

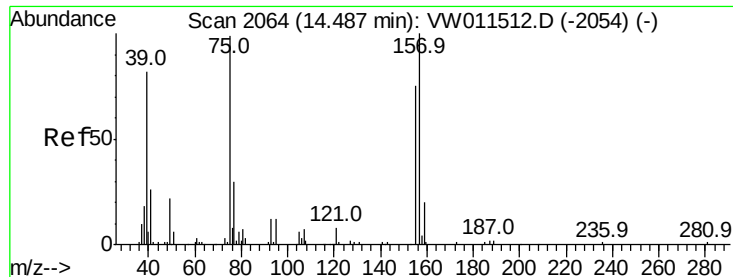
Tot Ion:105 Resp: 602
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.1 66.5#



#86
 p-Isopropyltoluene
 Concen: 7.539 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011859.D
 Acq: 12 Aug 2019 18:15

Tgt Ion:119 Resp: 4022
 Ion Ratio Lower Upper
 119 100
 134 26.9 12.8 38.4
 91 46.6 12.1 36.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.061 ug/l

RT: 14.21 min Scan# 2018

Delta R.T. -0.28 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

Instrument :

MSVOA_W

ClientSampled :

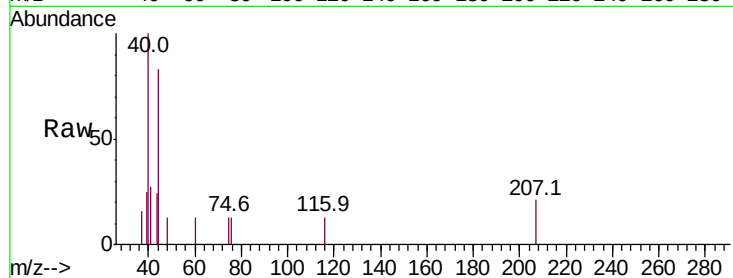
Tot Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

155 0.0 38.2 114.6#

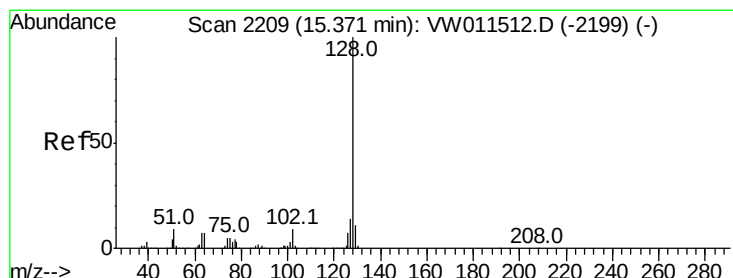
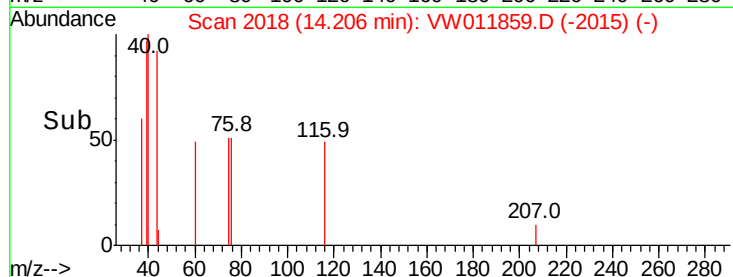
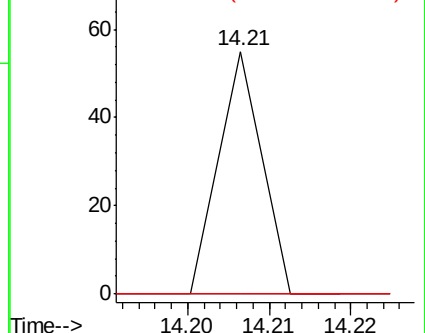
157 0.0 48.9 146.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 3.138 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011859.D

Acq: 12 Aug 2019 18:15

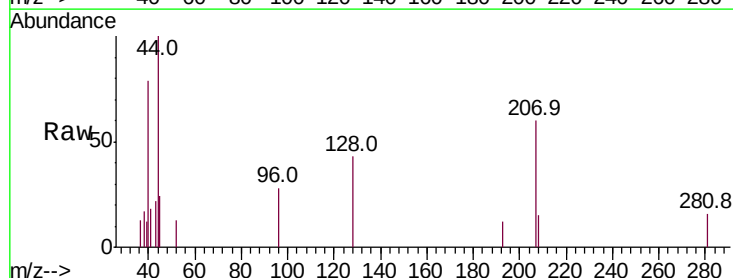
Tgt Ion: 128 Resp: 348

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#



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

