

Data File : VW013159.D
Acq On : 19 Sep 2019 14:26
Operator : SY/VA
Sample : K4960-01
Misc : 4.36G/5ML/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

Quant Time: Sep 20 07:45:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	323515	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	481765	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	386478	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	161605	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	131176	43.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.80%	
35) Dibromofluoromethane	7.88	113	130515	49.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.86%	
50) Toluene-d8	10.32	98	546102	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
62) 4-Bromofluorobenzene	12.62	95	165144	44.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.80%	

Target Compounds

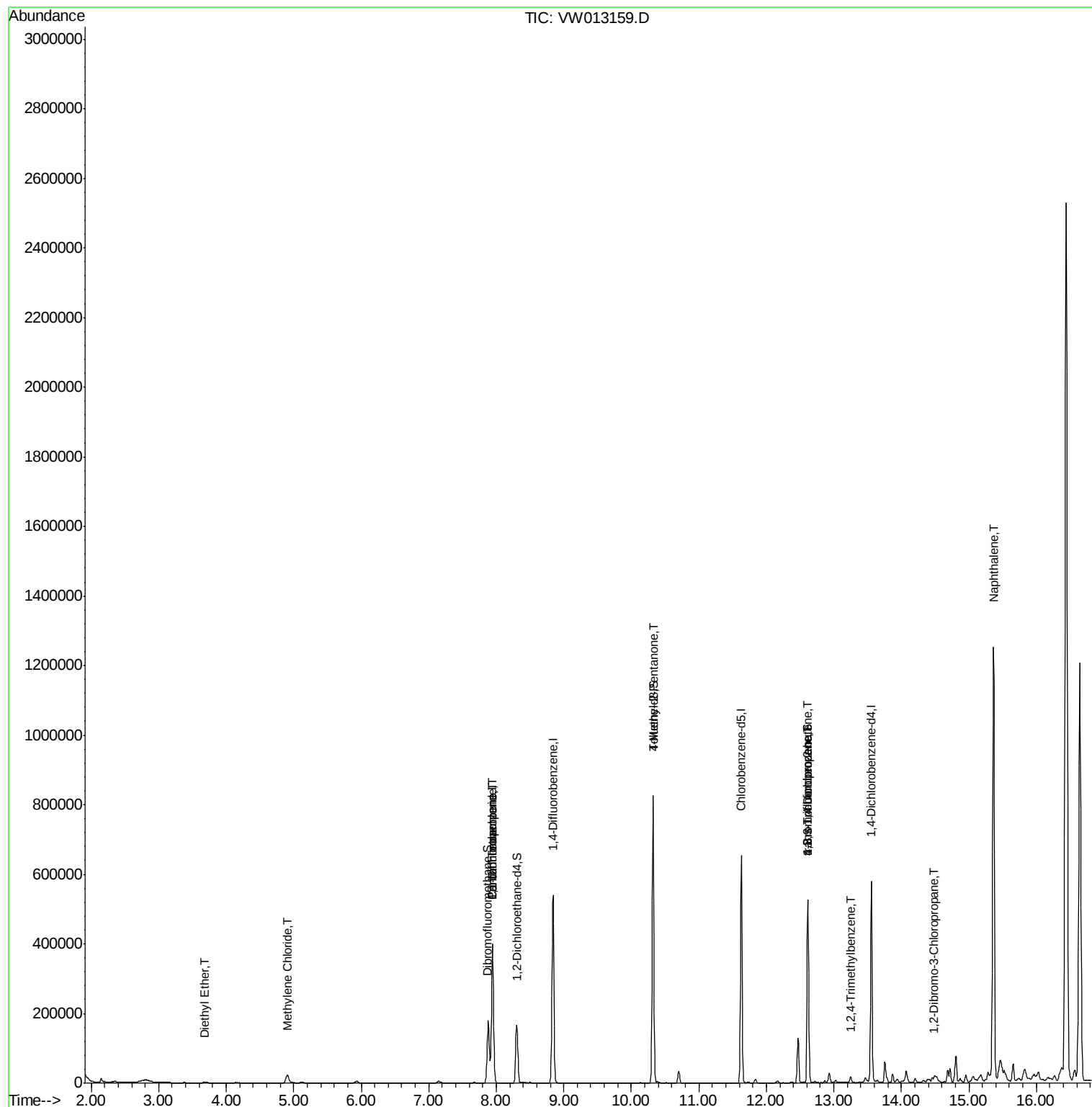
					Qvalue
3) Chloromethane	2.20	50	297	Below Cal	97
8) Diethyl Ether	3.68	74	1479	1.170 ug/l	94
11) Tert butyl alcohol	5.18	59	178	Below Cal #	72
13) Acrolein	3.95	56	44	Below Cal #	15
16) Acetone	4.14	43	2277	Below Cal	90
20) Methylene Chloride	4.90	84	18271	2.658 ug/l	96
26) 2,2-Dichloropropane	7.15	77	335	Below Cal #	55
31) Cyclohexane	7.95	56	5591	Below Cal #	1
36) 1,1-Dichloropropene	7.95	75	21799	5.662 ug/l #	51
38) Carbon Tetrachloride	7.95	117	29251	7.414 ug/l #	15
51) 4-Methyl-2-Pentanone	10.32	43	2352	1.161 ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	77725	54.909 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	77725	124.559 ug/l #	7
84) 1,2,4-Trimethylbenzene	13.25	105	10141	1.132 ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.47	75	537	1.559 ug/l #	1
95) Naphthalene	15.36	128	1093554	213.625 ug/l	99

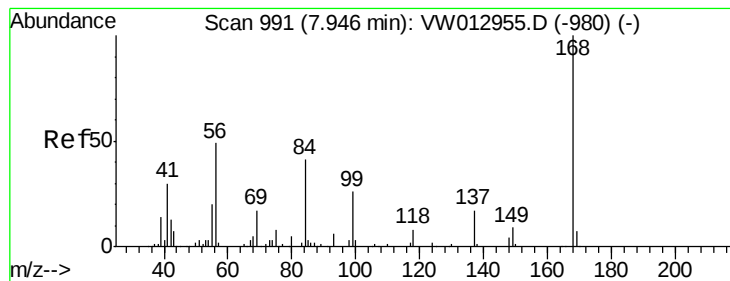
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

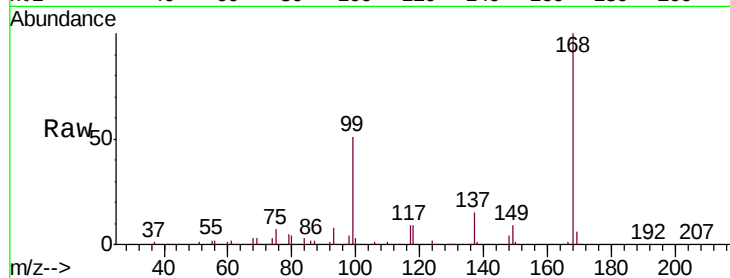
ROLL-OFF-COMP

Tgt Ion:168 Resp: 323515

Ion Ratio Lower Upper

168 100

99 51.2 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

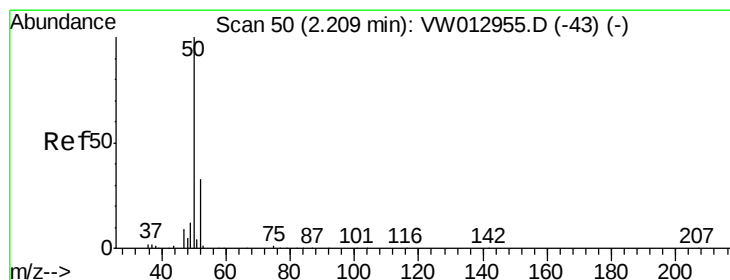
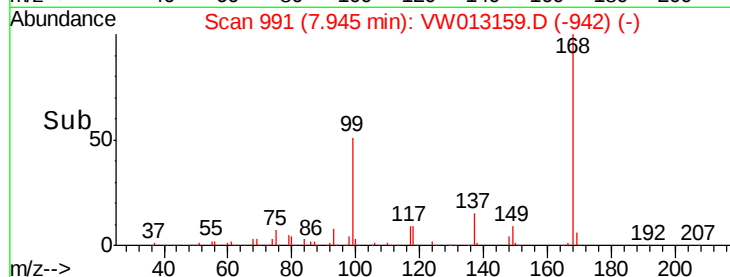
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013159.D

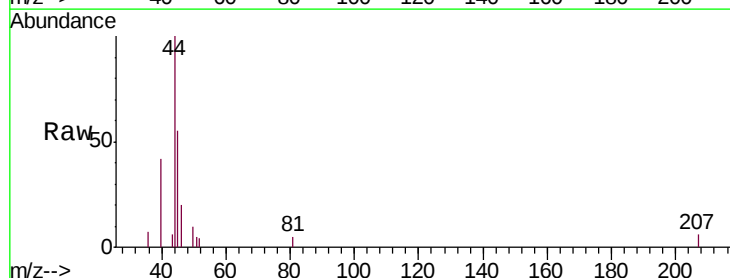
Acq: 19 Sep 2019 14:26

Tgt Ion: 50 Resp: 297

Ion Ratio Lower Upper

50 100

52 34.8 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.20

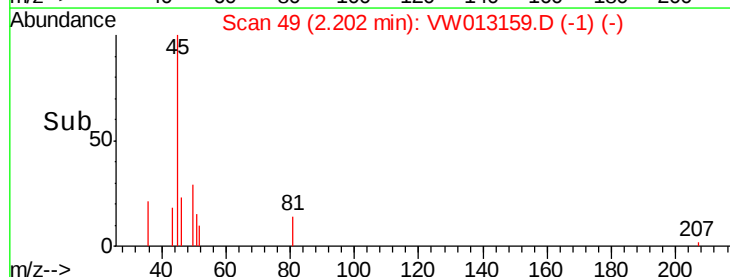
150

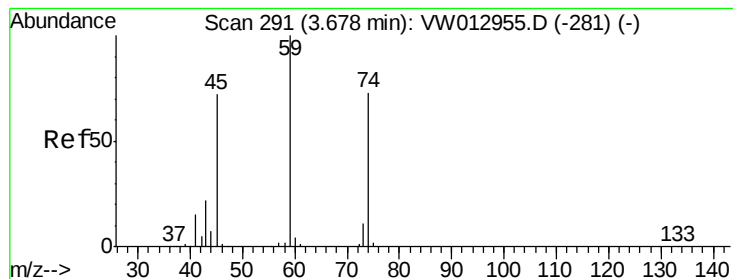
100

50

0

Time--> 2.15 2.20 2.25





#8

Diethyl Ether

Concen: 1.170 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

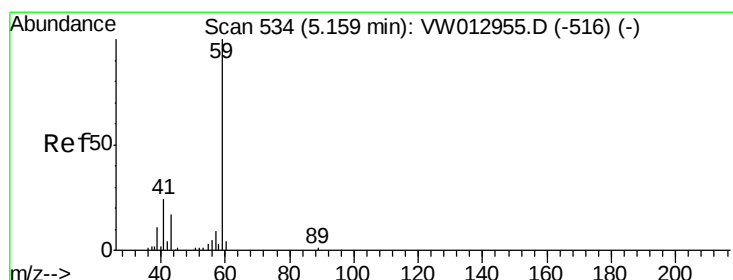
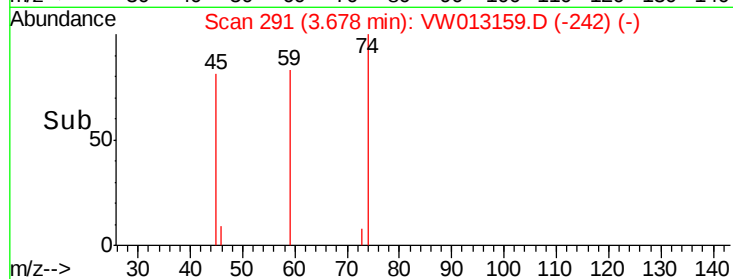
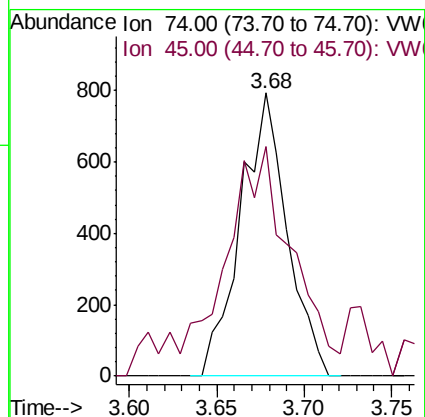
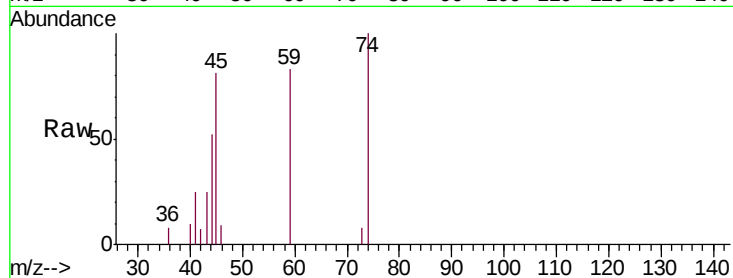
ROLL-OFF-COMP

Tgt Ion: 74 Resp: 1479

Ion Ratio Lower Upper

74 100

45 113.4 53.8 161.4



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW013159.D

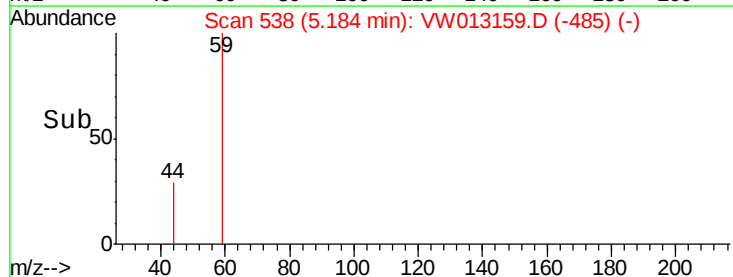
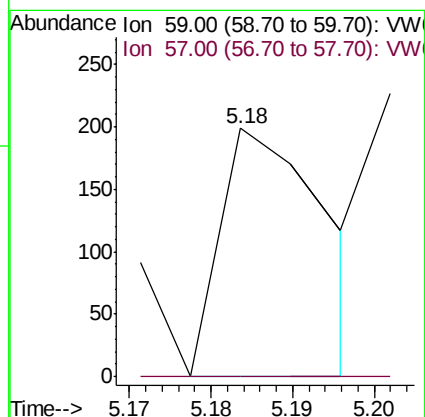
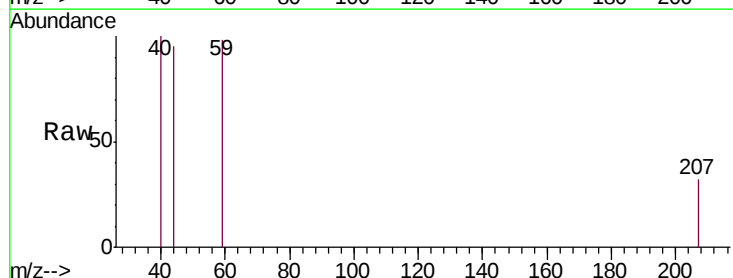
Acq: 19 Sep 2019 14:26

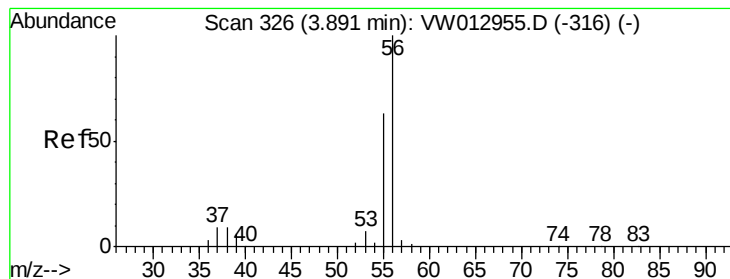
Tgt Ion: 59 Resp: 178

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.95 min Scan# 336

Delta R.T. 0.06 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

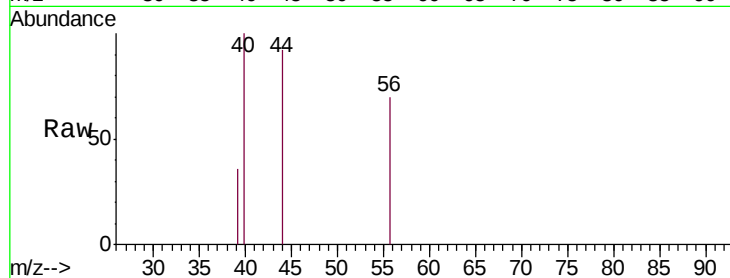
ROLL-OFF-COMP

Tgt Ion: 56 Resp: 44

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.95

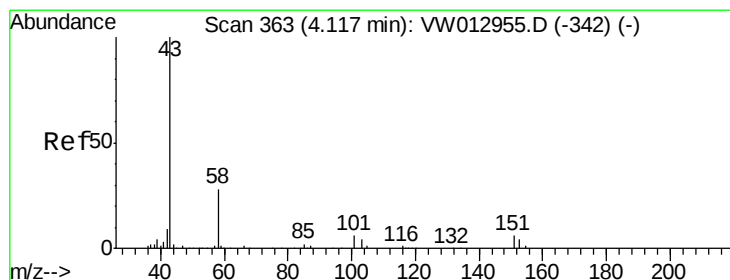
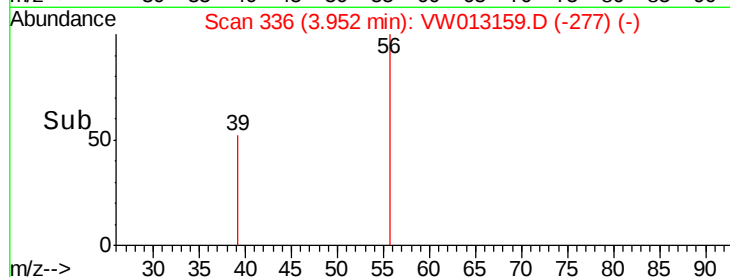
100

50

0

3.93 3.94 3.95 3.96 3.97

Time-->



#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013159.D

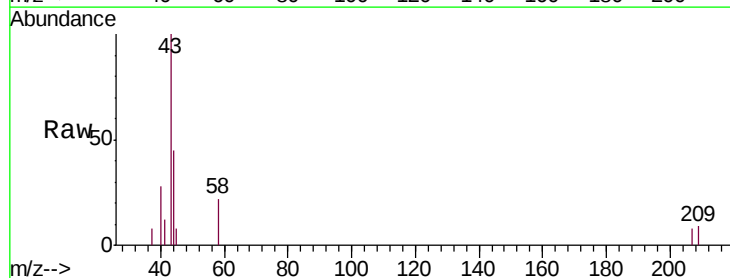
Acq: 19 Sep 2019 14:26

Tgt Ion: 43 Resp: 2277

Ion Ratio Lower Upper

43 100

58 22.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

800

600

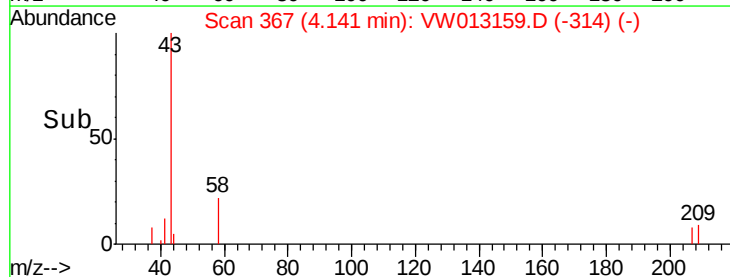
400

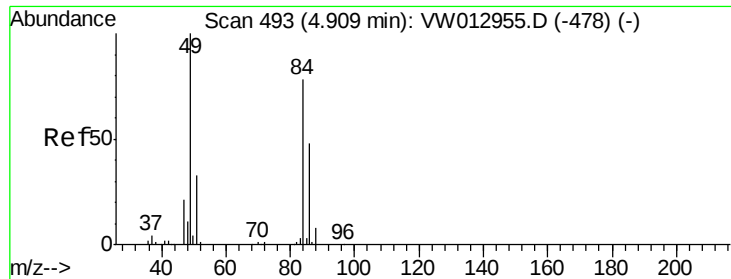
200

0

4.10 4.14 4.20

Time-->

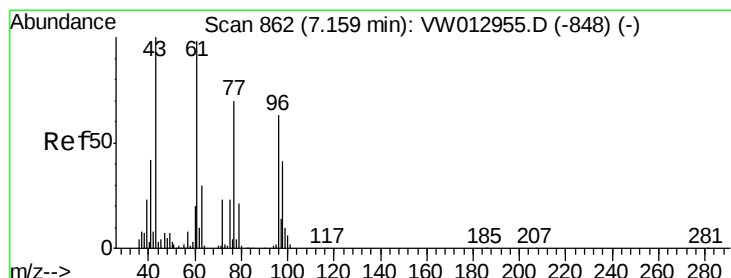
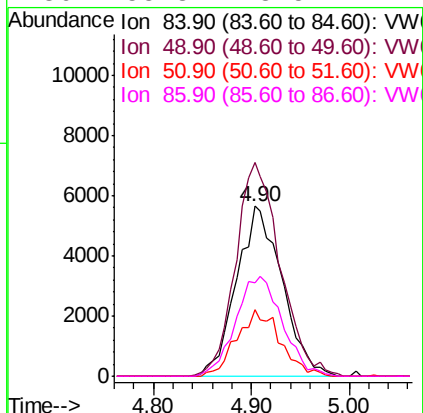
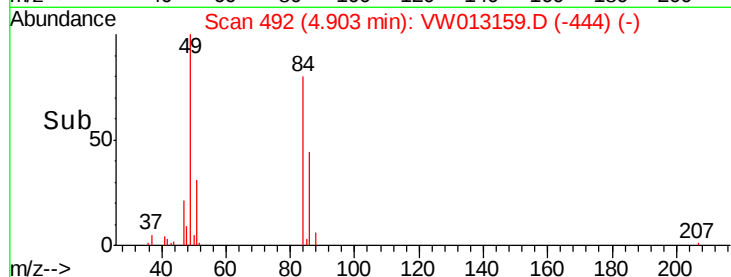
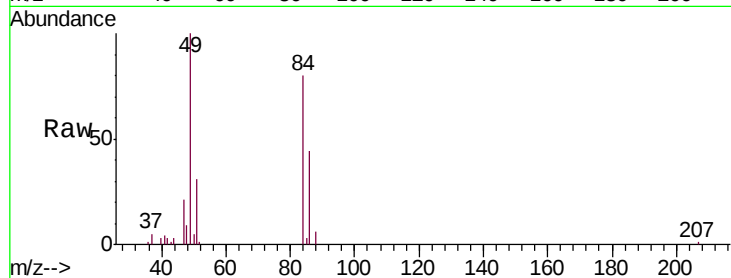




#20
Methylene Chloride
Concen: 2.658 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW013159.D
Acq: 19 Sep 2019 14:26

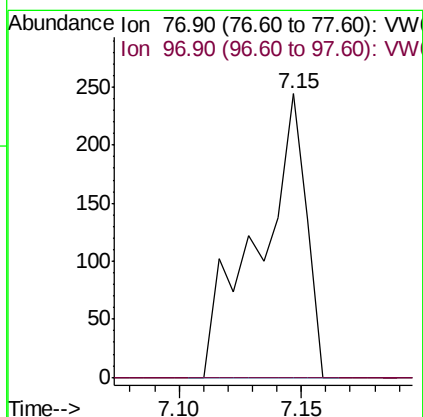
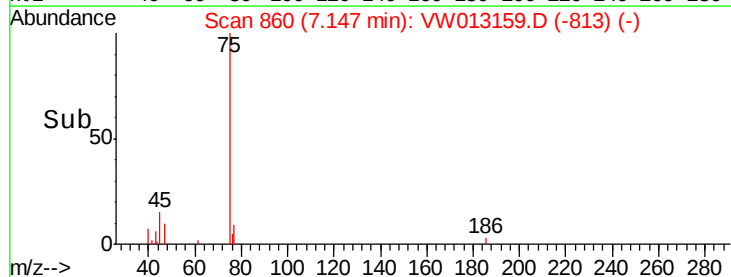
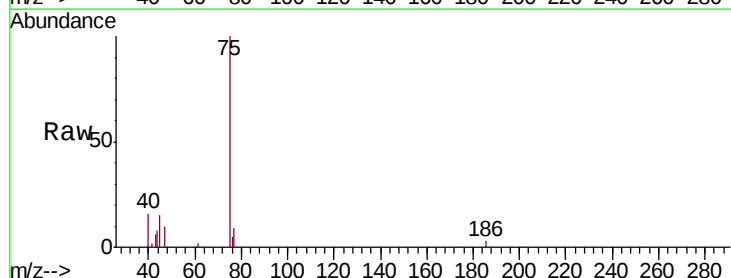
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

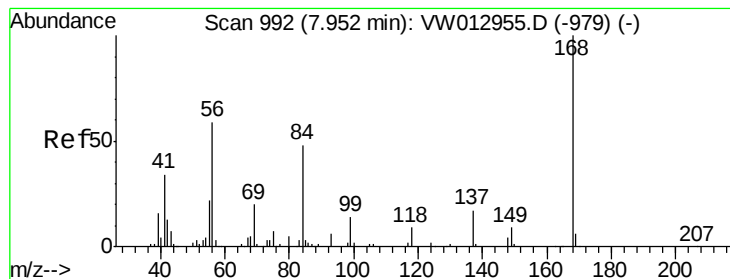
Tgt Ion: 84 Resp: 18271
Ion Ratio Lower Upper
84 100
49 125.8 102.0 153.0
51 39.2 34.0 51.0
86 55.3 48.5 72.7



#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.15 min Scan# 860
Delta R.T. -0.01 min
Lab File: VW013159.D
Acq: 19 Sep 2019 14:26

Tgt Ion: 77 Resp: 335
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#





#31

Cyclohexane

Concen: Below Cal

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

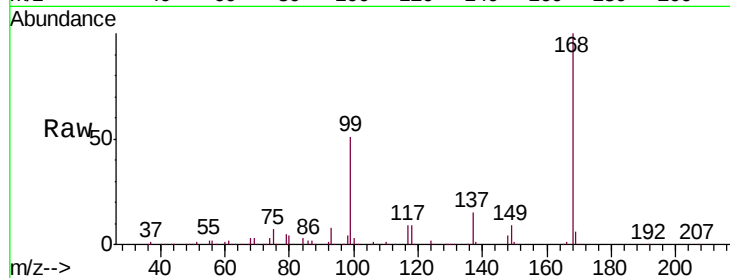
Tgt Ion: 56 Resp: 5591

Ion Ratio Lower Upper

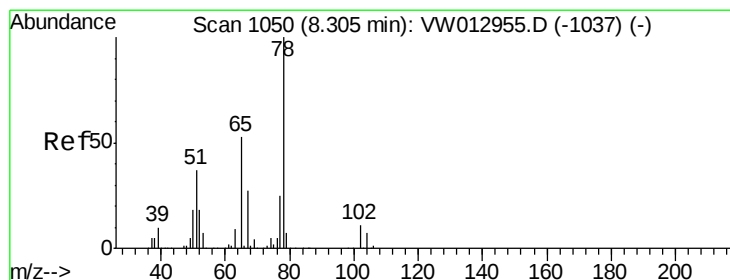
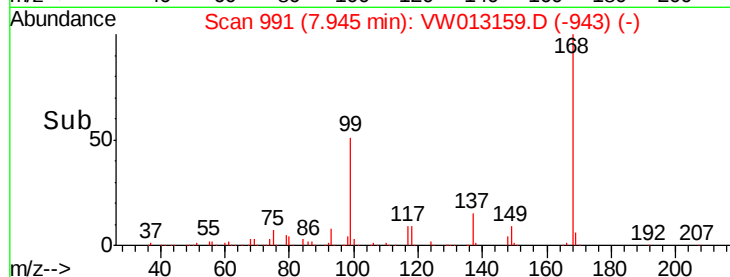
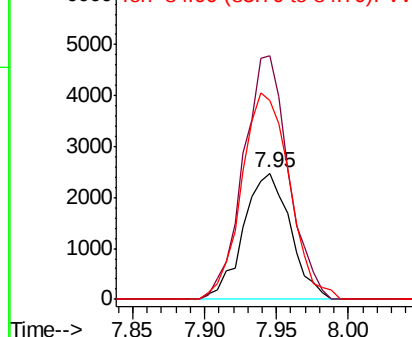
56 100

69 193.3 27.0 40.6#

84 158.3 66.2 99.2#



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: 43.903 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013159.D

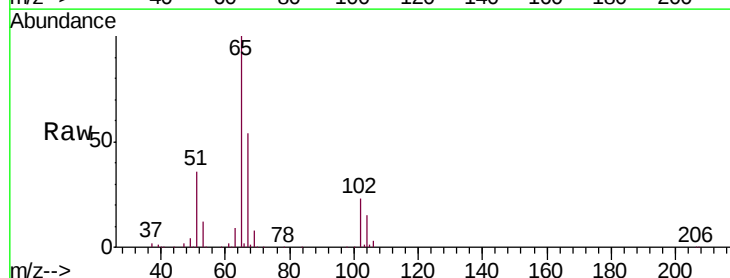
Acq: 19 Sep 2019 14:26

Tgt Ion: 65 Resp: 131176

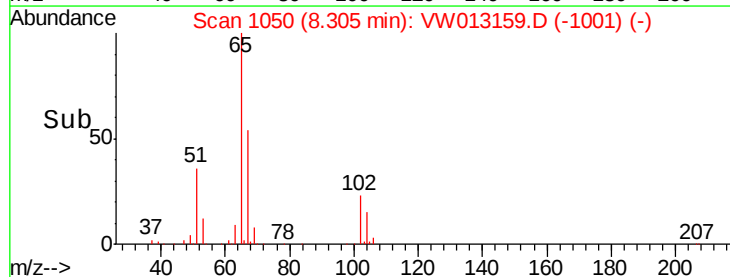
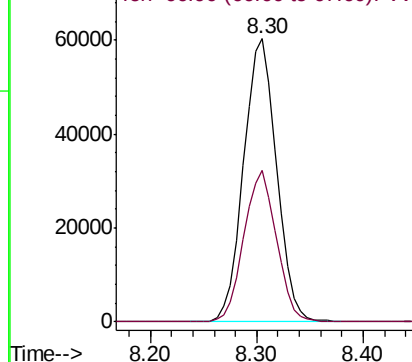
Ion Ratio Lower Upper

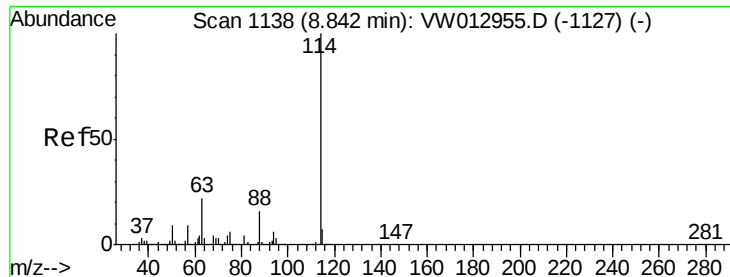
65 100

67 53.2 0.0 101.2



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

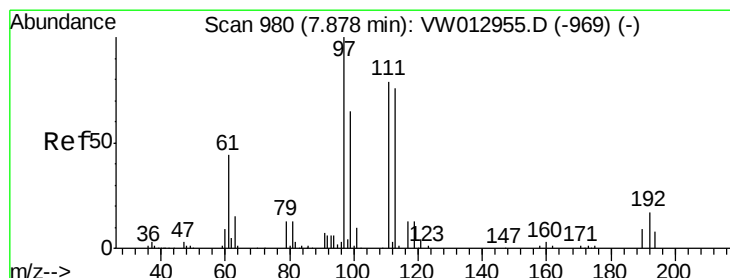
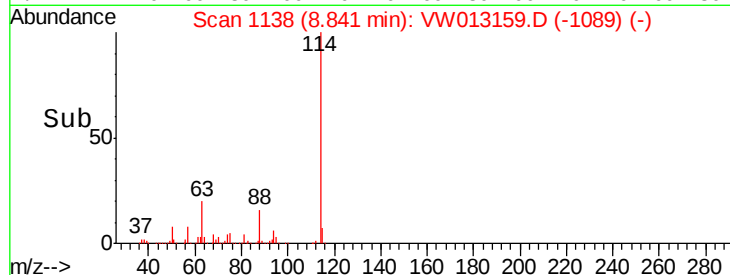
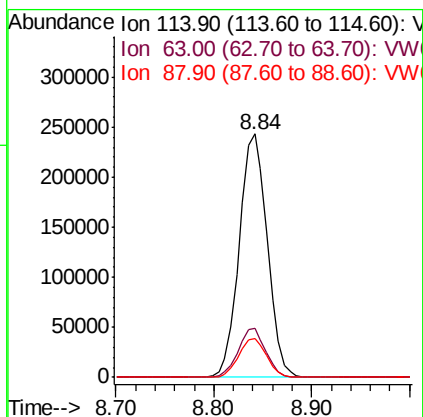
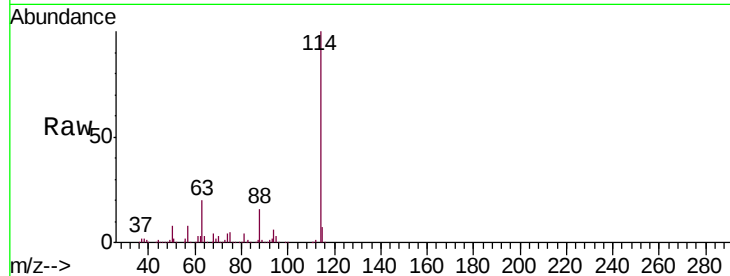




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013159.D
 Acq: 19 Sep 2019 14:26

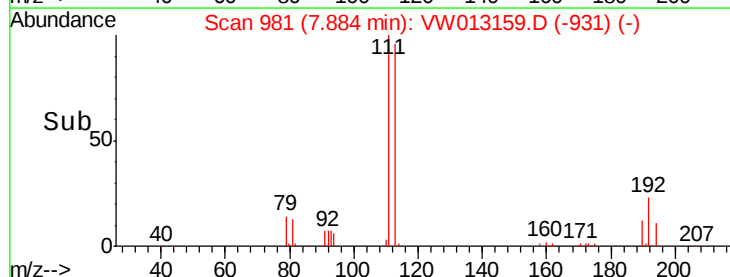
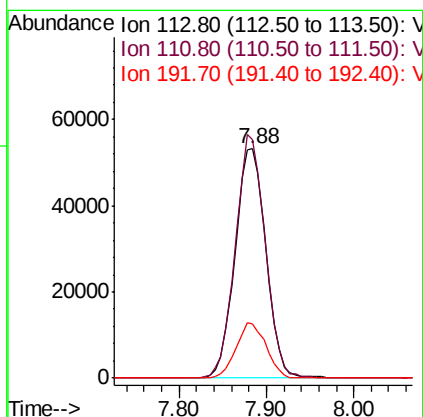
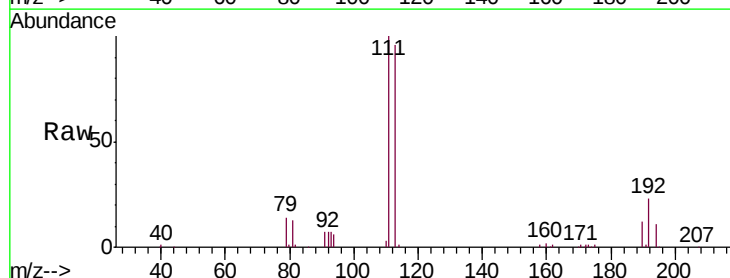
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

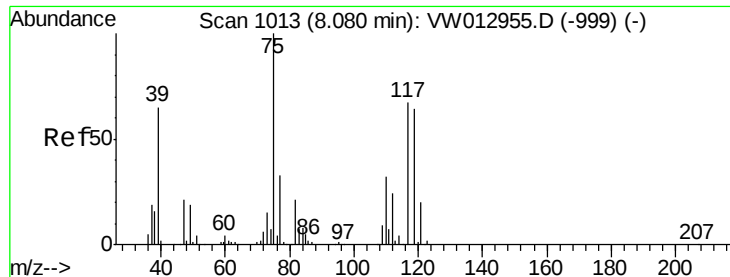
Tgt Ion:114 Resp: 481765
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 43.4
 88 15.7 0.0 31.6



#35
 Dibromofluoromethane
 Concen: 49.927 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013159.D
 Acq: 19 Sep 2019 14:26

Tgt Ion:113 Resp: 130515
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.8 124.2
 192 23.5 17.8 26.8

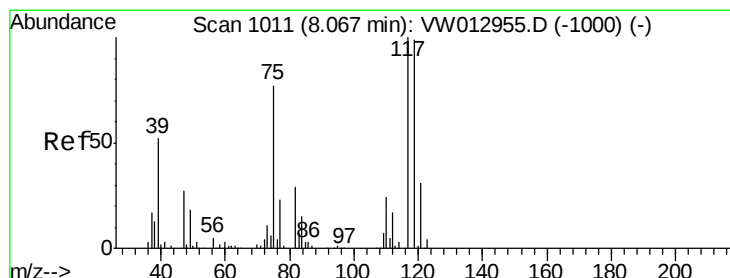
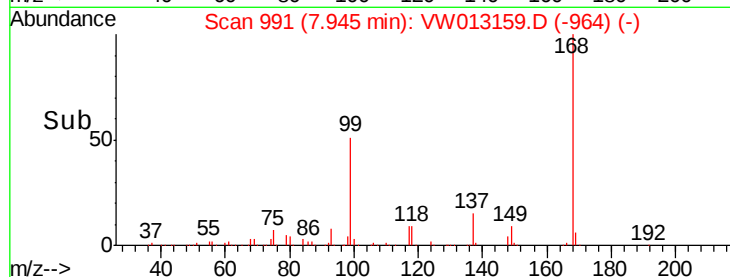
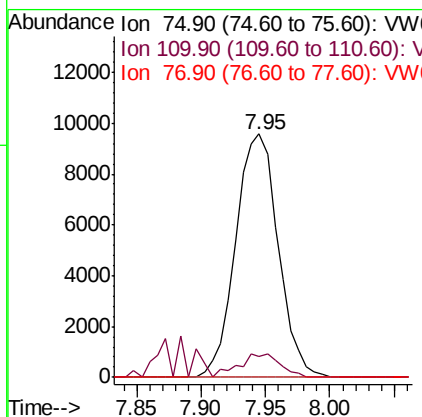
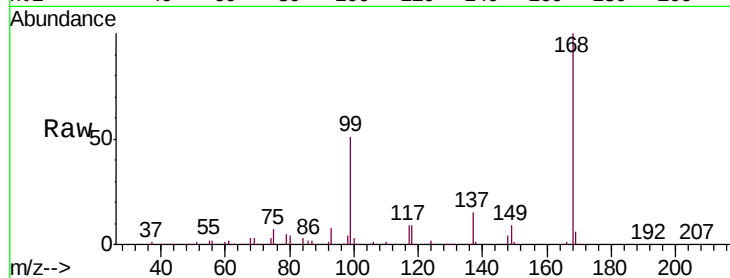




#36
 1,1-Dichloropropene
 Concen: 5.662 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013159.D
 Acq: 19 Sep 2019 14:26

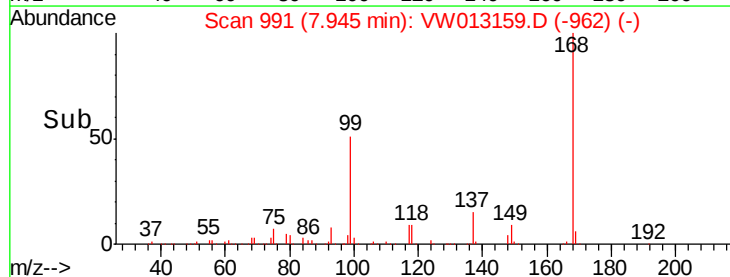
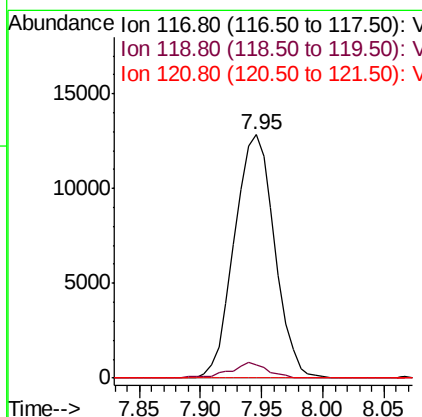
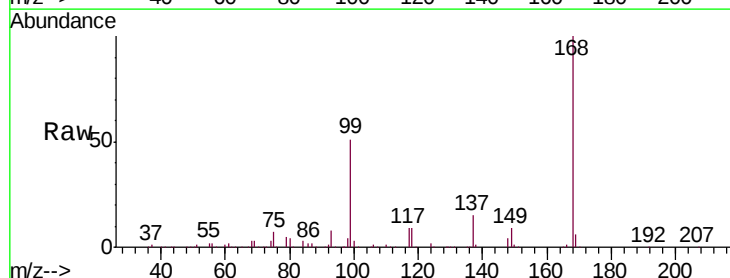
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

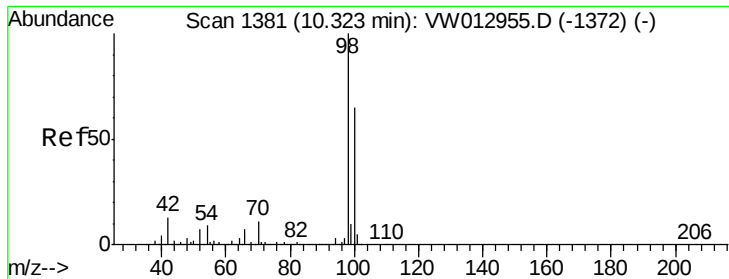
Tgt Ion: 75 Resp: 21799
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.4 49.1#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 7.414 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW013159.D
 Acq: 19 Sep 2019 14:26

Tgt Ion: 117 Resp: 29251
 Ion Ratio Lower Upper
 117 100
 119 5.3 79.4 119.0#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 53.386 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

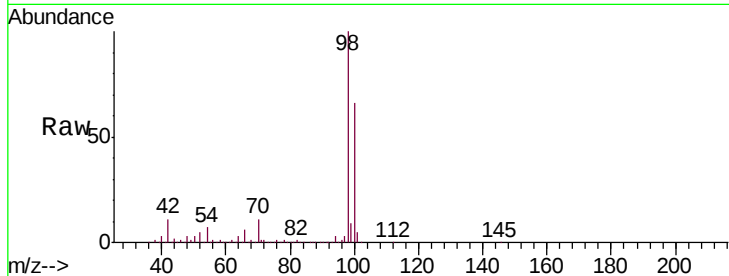
ROLL-OFF-COMP

Tgt Ion: 98 Resp: 546102

Ion Ratio Lower Upper

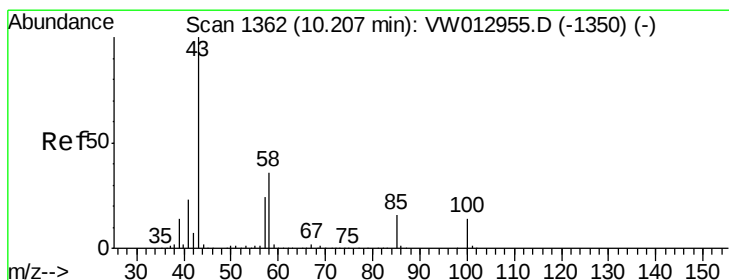
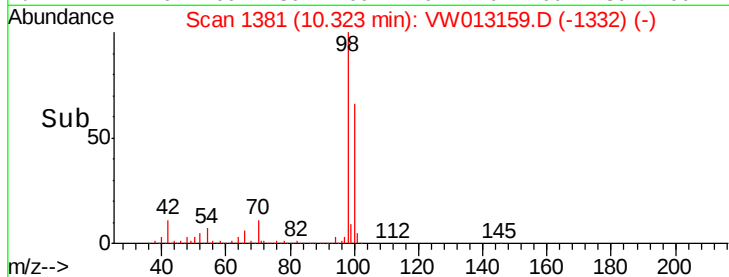
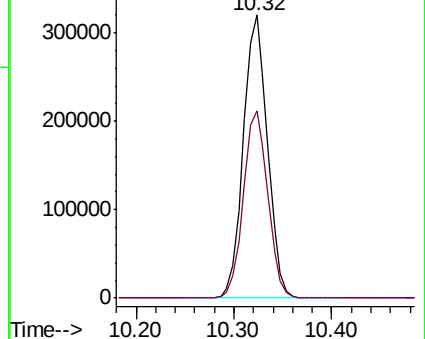
98 100

100 66.8 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.161 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW013159.D

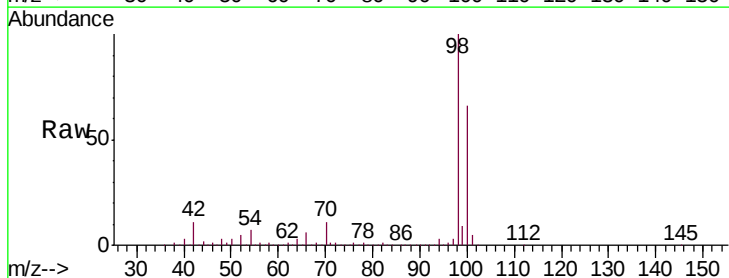
Acq: 19 Sep 2019 14:26

Tgt Ion: 43 Resp: 2352

Ion Ratio Lower Upper

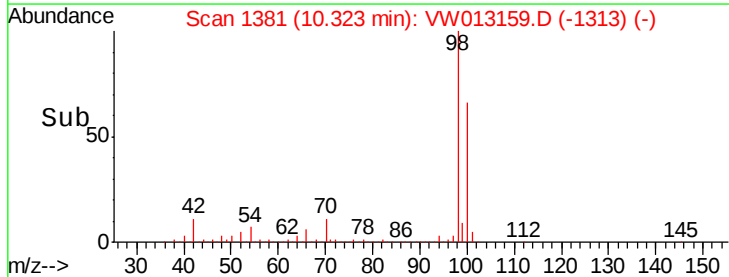
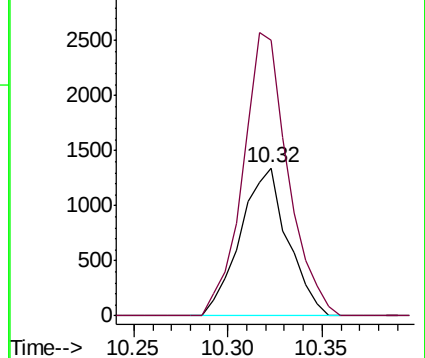
43 100

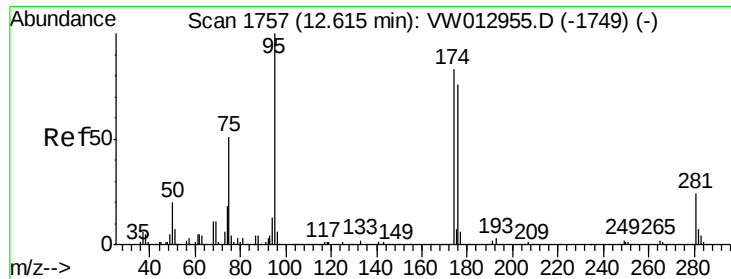
58 181.3 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

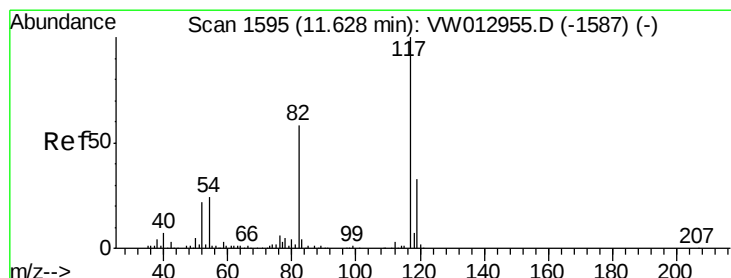
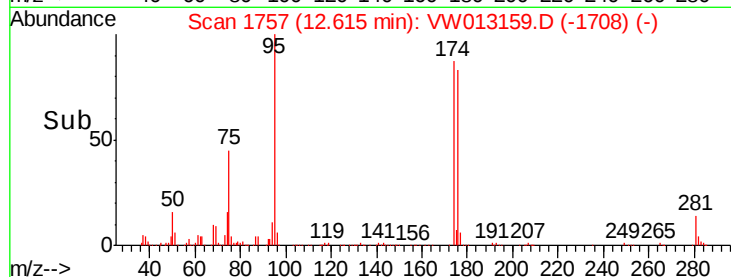
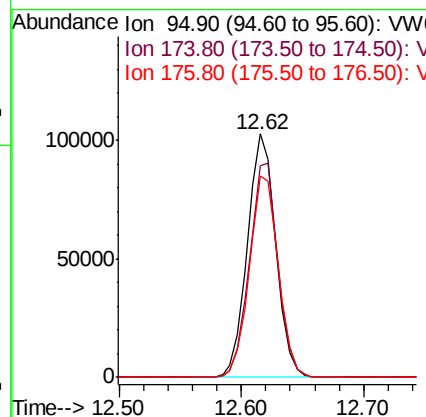
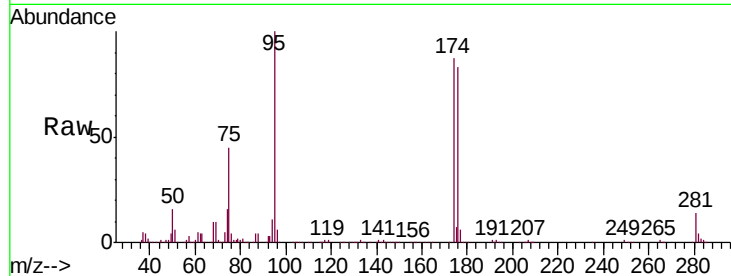




#62
4-Bromofluorobenzene
Concen: 44.898 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013159.D
Acq: 19 Sep 2019 14:26

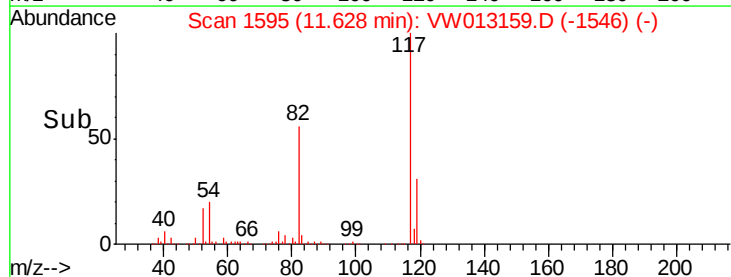
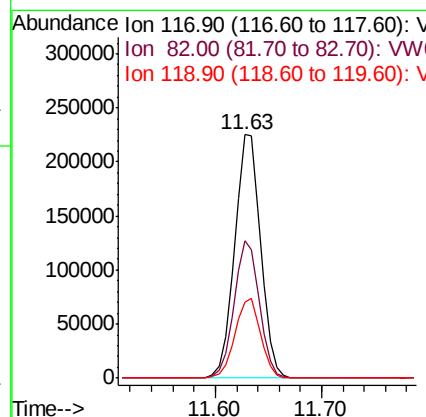
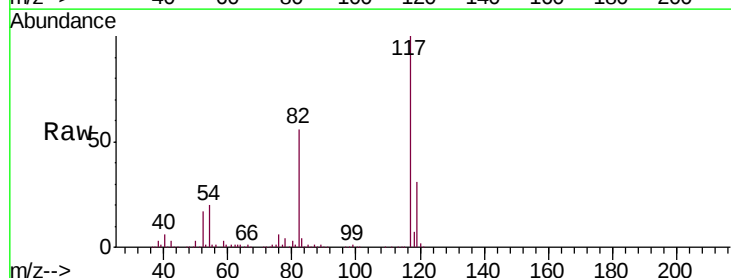
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

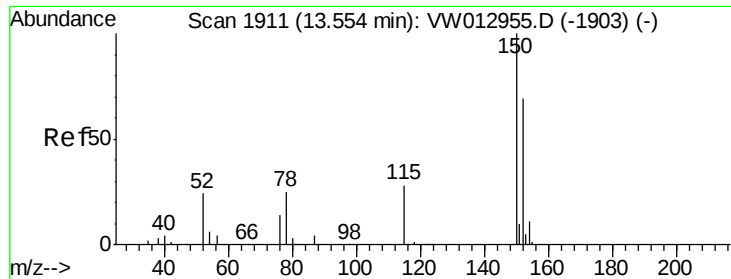
Tgt Ion: 95 Resp: 165144
Ion Ratio Lower Upper
95 100
174 88.8 0.0 170.4
176 84.6 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013159.D
Acq: 19 Sep 2019 14:26

Tgt Ion: 117 Resp: 386478
Ion Ratio Lower Upper
117 100
82 56.3 46.3 69.5
119 31.2 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

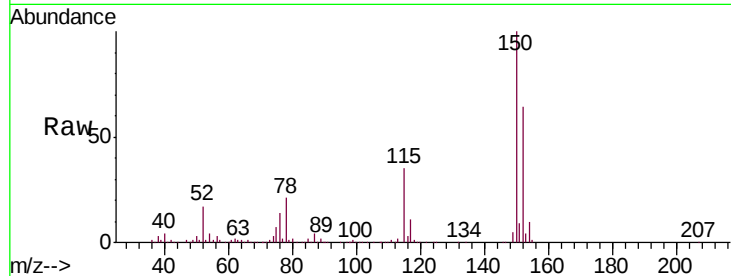
Tgt Ion: 152 Resp: 161605

Ion Ratio Lower Upper

152 100

115 55.0 28.8 86.4

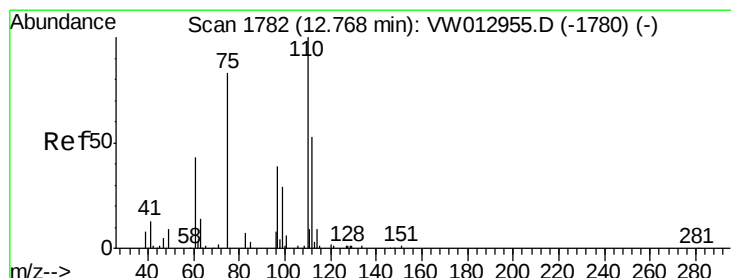
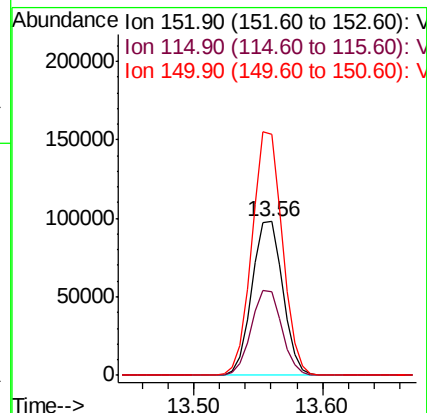
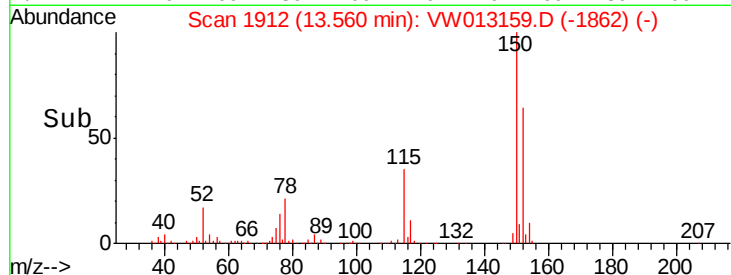
150 155.3 0.0 340.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 54.909 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013159.D

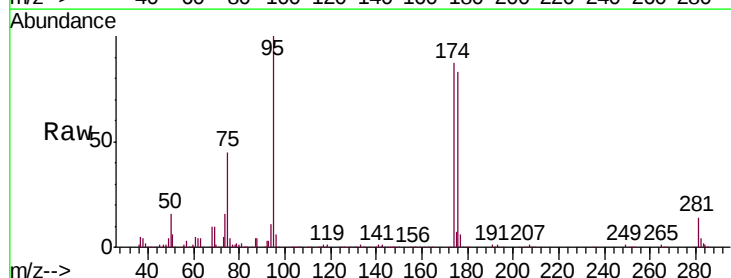
Acq: 19 Sep 2019 14:26

Tgt Ion: 75 Resp: 77725

Ion Ratio Lower Upper

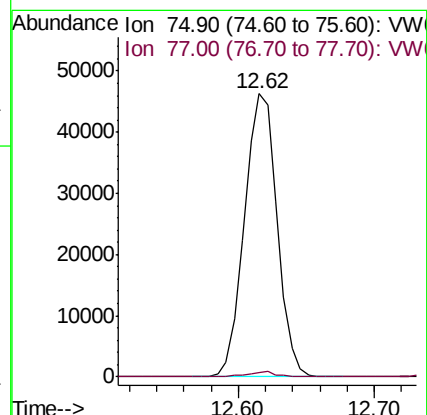
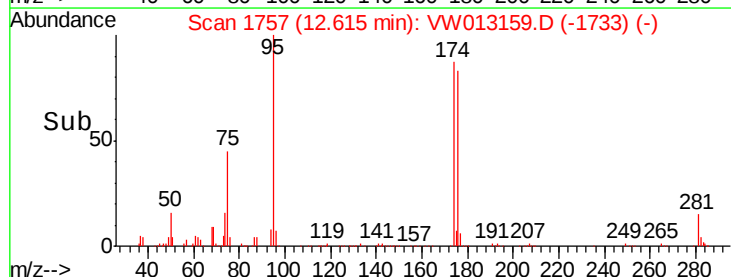
75 100

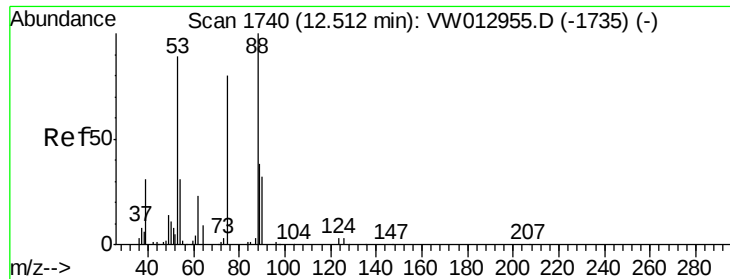
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 124.559 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013159.D

Acq: 19 Sep 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

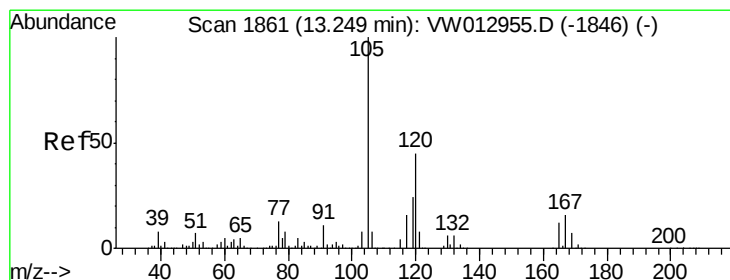
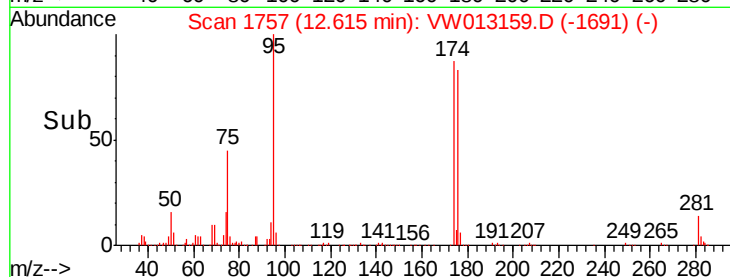
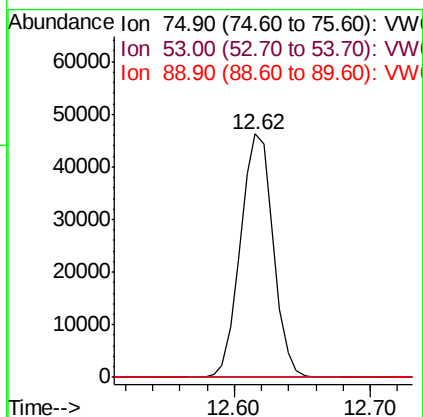
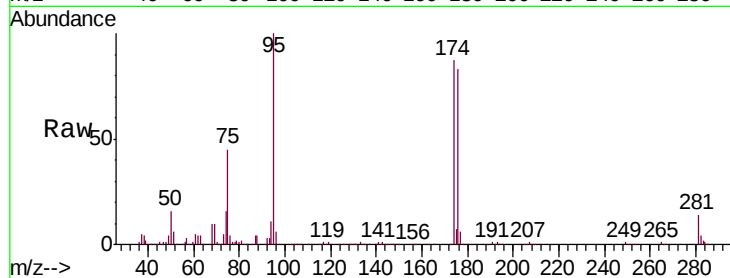
Tgt Ion: 75 Resp: 77725

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.2 37.2 55.8#



#84

1,2,4-Trimethylbenzene

Concen: 1.132 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013159.D

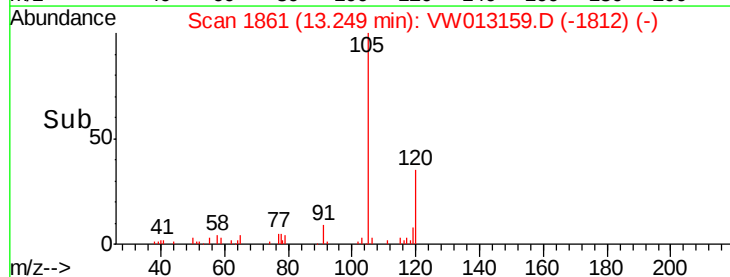
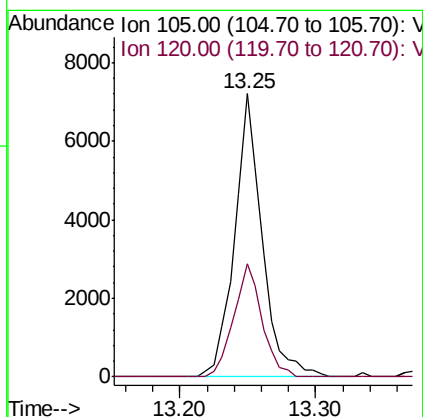
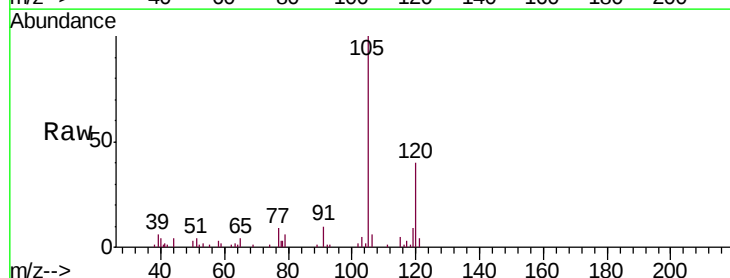
Acq: 19 Sep 2019 14:26

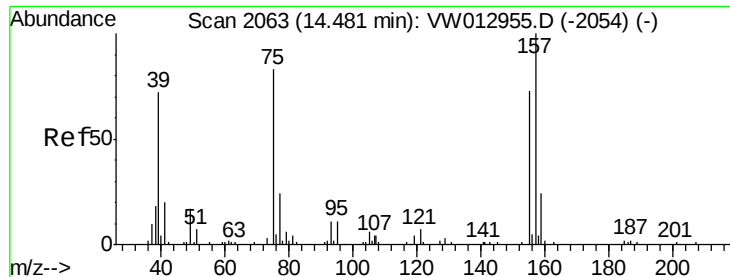
Tgt Ion: 105 Resp: 10141

Ion Ratio Lower Upper

105 100

120 40.8 21.9 65.7

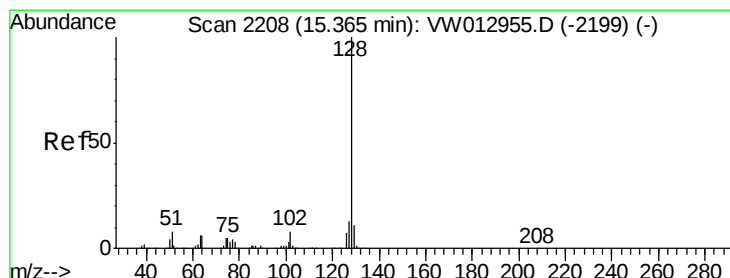
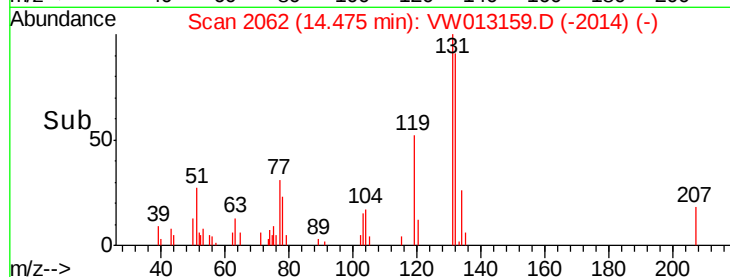
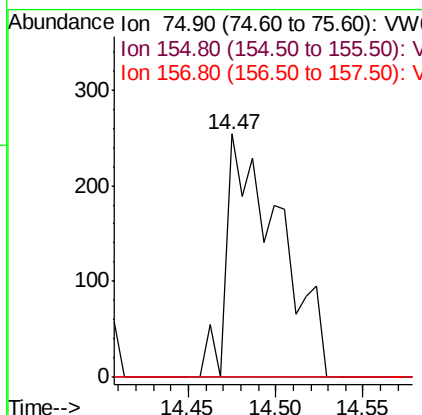
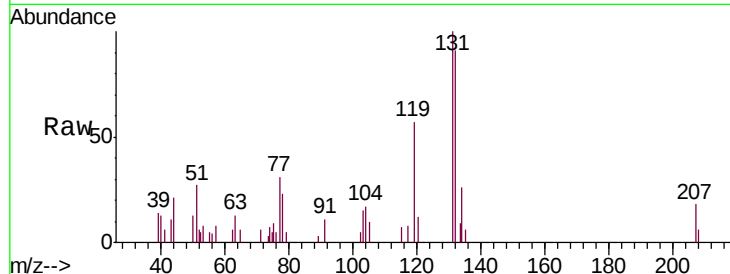




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.559 ug/l
 RT: 14.47 min Scan# 2062
 Delta R.T. -0.01 min
 Lab File: VW013159.D
 Acq: 19 Sep 2019 14:26

Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

Tgt Ion: 75 Resp: 537
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.3 129.9#
 157 0.0 54.7 164.1#



#95
 Naphthalene
 Concen: 213.625 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: VW013159.D
 Acq: 19 Sep 2019 14:26

Tgt Ion: 128 Resp: 1093554
 Ion Ratio Lower Upper
 128 100
 127 13.3 11.0 16.6
 129 10.9 8.6 12.8

