

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090319\
 Data File : VW012578.D
 Acq On : 04 Sep 2019 06:06
 Operator : SY/VA
 Sample : K4525-13
 Misc : 5.09G/5ML/MSVOA_W/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-B3-(0)

Quant Time: Sep 04 06:54:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

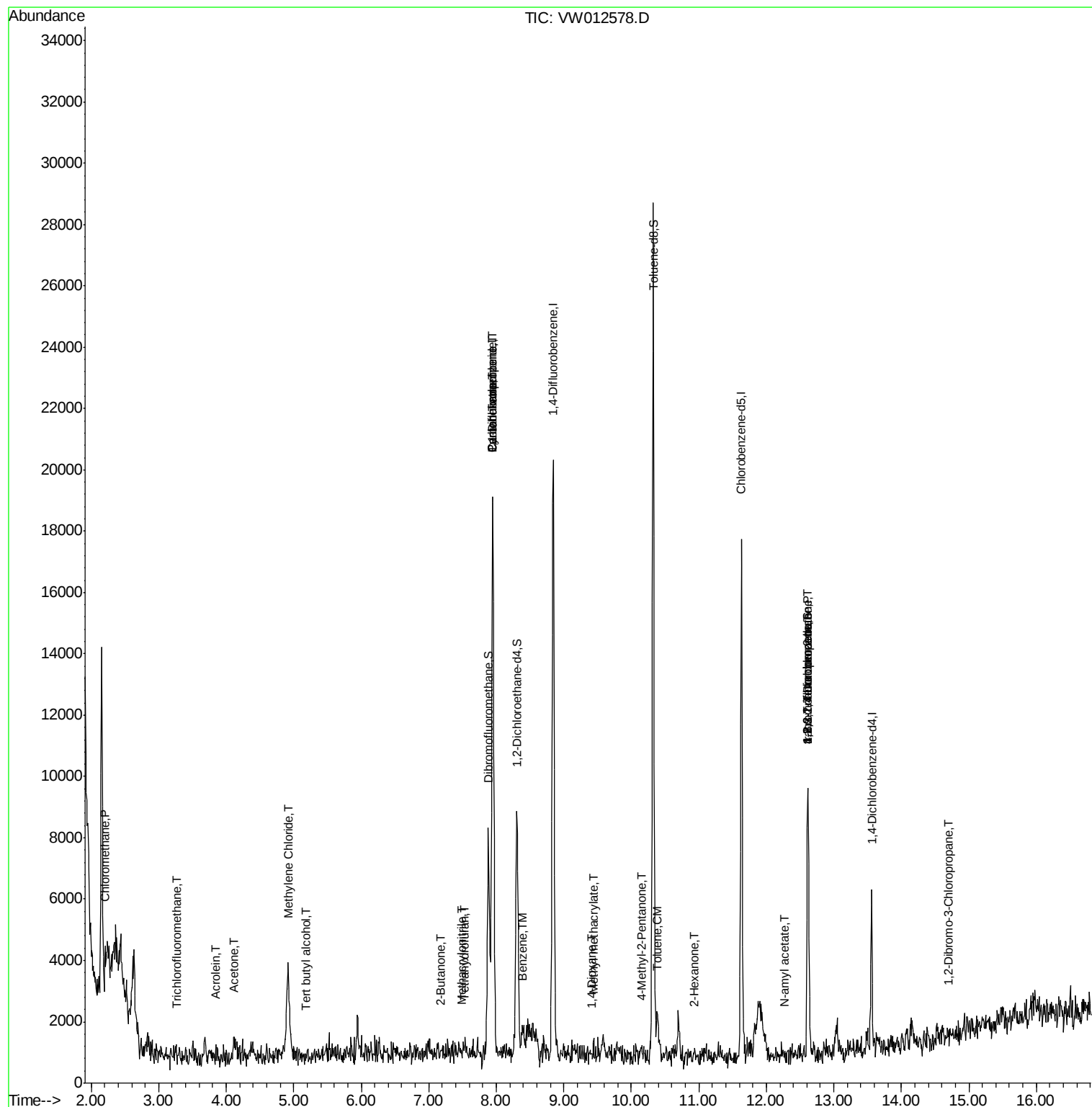
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	12987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	15788	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	8898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	1359	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	6426	41.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.24%	
35) Dibromofluoromethane	7.88	113	5411	57.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.84%	
50) Toluene-d8	10.32	98	17101	44.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.50%	
62) 4-Bromofluorobenzene	12.62	95	2385	17.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.42%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.21	50	180	1.453	ug/l #	86
7) Trichlorofluoromethane	3.28	101	102	1.340	ug/l #	18
11) Tert butyl alcohol	5.18	59	19	2.045	ug/l #	71
13) Acrolein	3.84	56	27	3.087	ug/l #	15
16) Acetone	4.12	43	585	14.824	ug/l	97
20) Methylene Chloride	4.92	84	2029	13.600	ug/l #	91
25) 2-Butanone	7.18	43	66	1.231	ug/l #	56
29) Tetrahydrofuran	7.52	42	190	5.905	ug/l #	52
31) Cyclohexane	7.94	56	401	1.442	ug/l #	45
36) 1,1-Dichloropropene	7.95	75	1093	6.699	ug/l #	56
38) Carbon Tetrachloride	7.95	117	1534	10.863	ug/l #	12
40) Benzene	8.39	78	1265	2.840	ug/l #	74
41) Methacrylonitrile	7.49	41	72	1.370	ug/l #	52
48) Methyl methacrylate	9.45	41	194	2.461	ug/l #	39
49) 1,4-Dioxane	9.41	88	22	26.939	ug/l #	14
51) 4-Methyl-2-Pentanone	10.15	43	86	1.021	ug/l	91
52) Toluene	10.40	92	576	2.152	ug/l	86
59) 2-Hexanone	10.93	43	71	1.191	ug/l	72
74) N-amyl acetate	12.27	43	40	1.300	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.61	83	23	1.232	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	1384	104.566	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	1384	229.264	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.70	75	64	20.335	ug/l #	5

(#) = 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: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

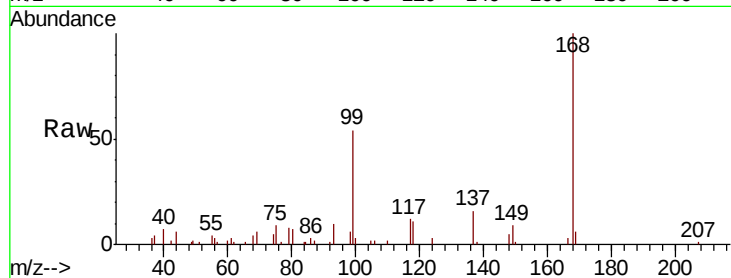
T9-12-13-B3-(0)

Tgt Ion:168 Resp: 12987

Ion Ratio Lower Upper

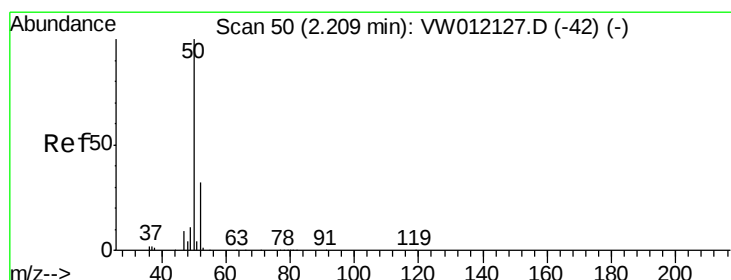
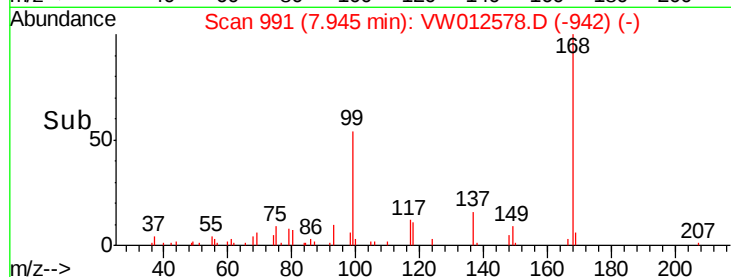
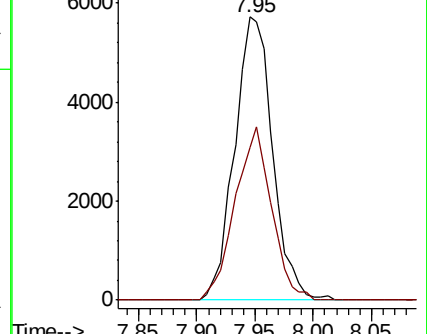
168 100

99 53.8 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.453 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW012578.D

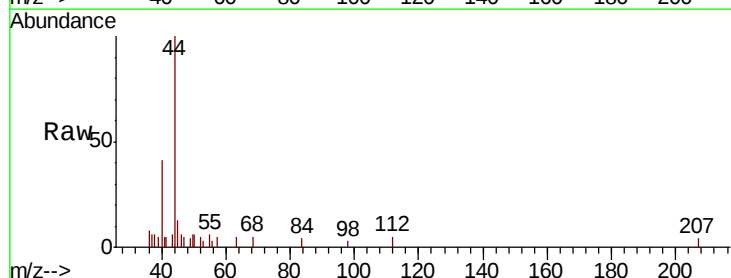
Acq: 04 Sep 2019 06:06

Tgt Ion: 50 Resp: 180

Ion Ratio Lower Upper

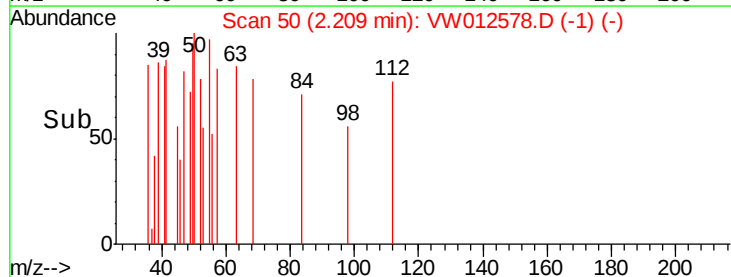
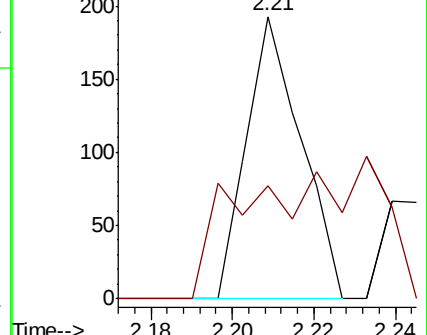
50 100

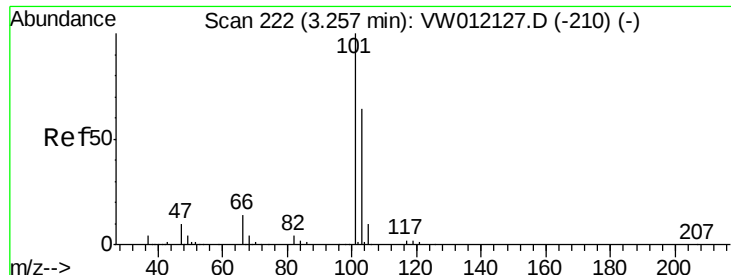
52 39.9 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#7

Trichlorofluoromethane

Concen: 1.340 ug/l

RT: 3.28 min Scan# 226

Delta R.T. 0.02 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

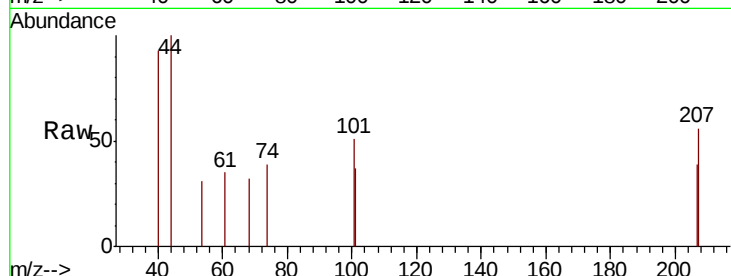
T9-12-13-B3-(0)

Tgt Ion:101 Resp: 102

Ion Ratio Lower Upper

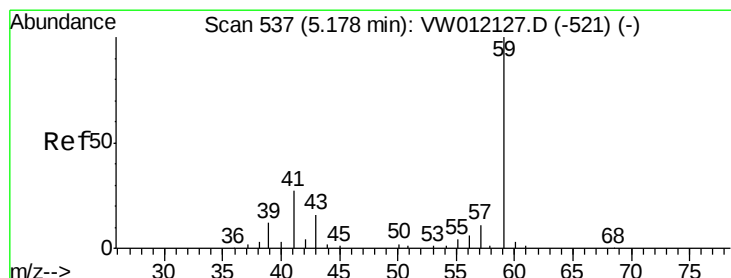
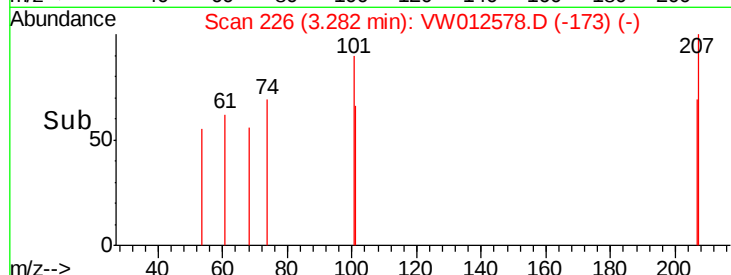
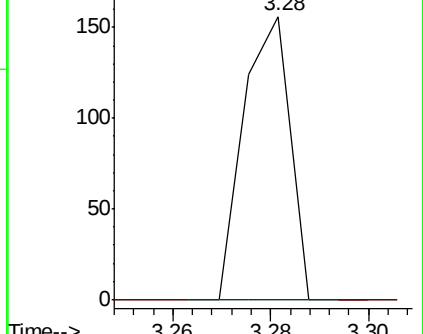
101 100

103 0.0 51.2 76.8#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#11

Tert butyl alcohol

Concen: 2.045 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012578.D

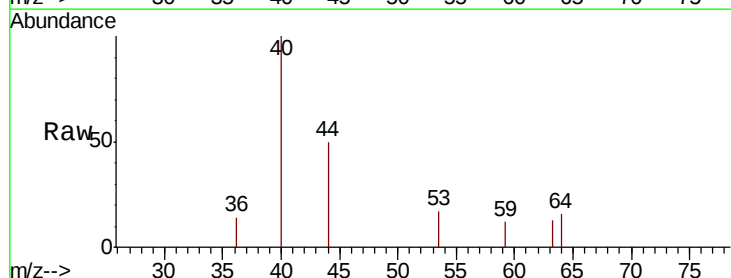
Acq: 04 Sep 2019 06:06

Tgt Ion: 59 Resp: 19

Ion Ratio Lower Upper

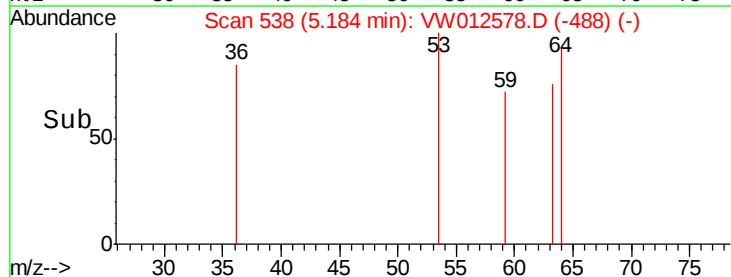
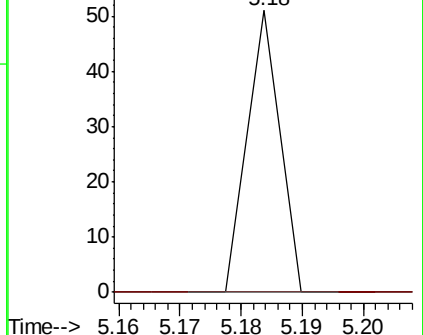
59 100

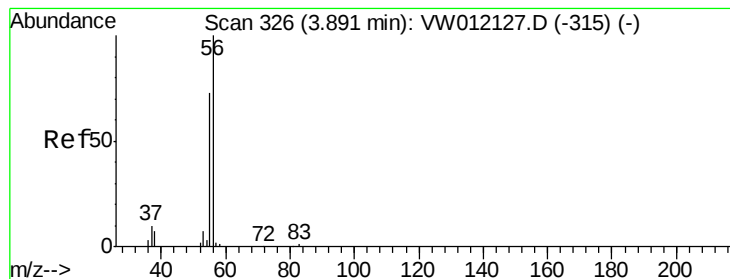
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 3.087 ug/l

RT: 3.84 min Scan# 318

Delta R.T. -0.05 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampled :

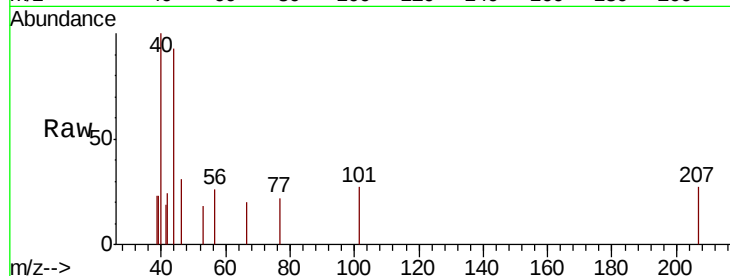
T9-12-13-B3-(0)

Tgt Ion: 56 Resp: 27

Ion Ratio Lower Upper

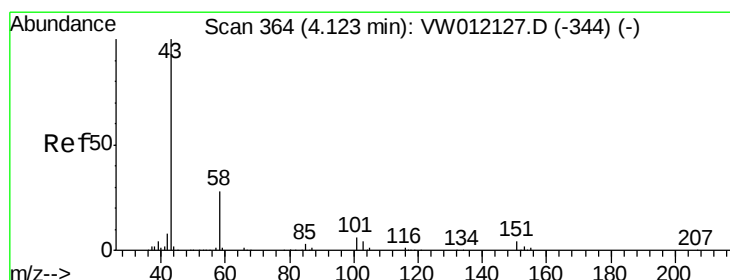
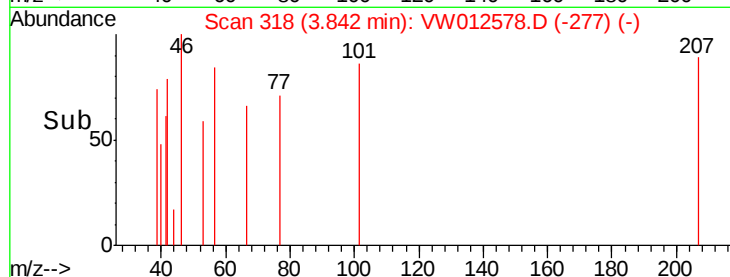
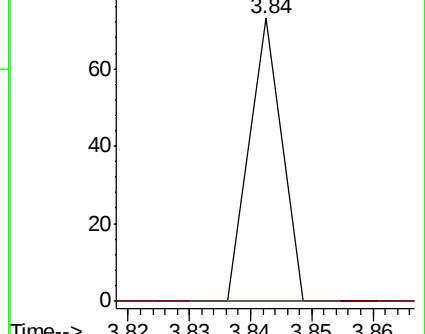
56 100

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



#16

Acetone

Concen: 14.824 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW012578.D

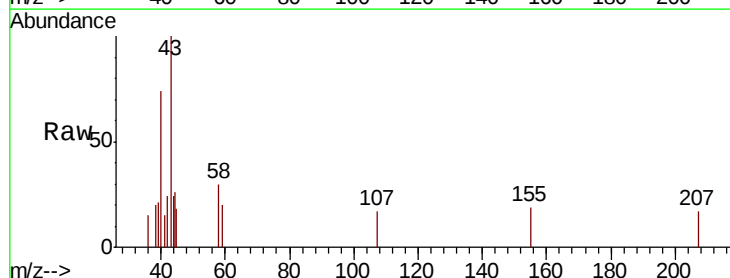
Acq: 04 Sep 2019 06:06

Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

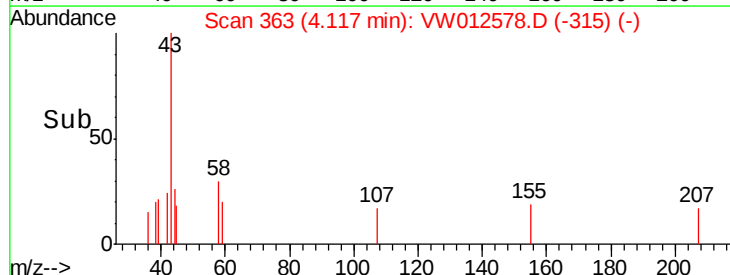
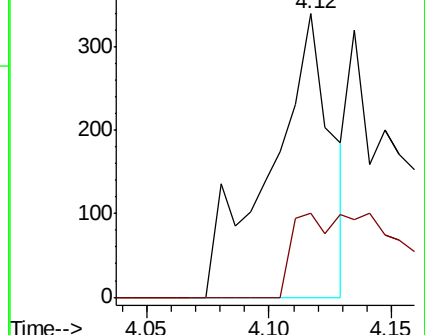
43 100

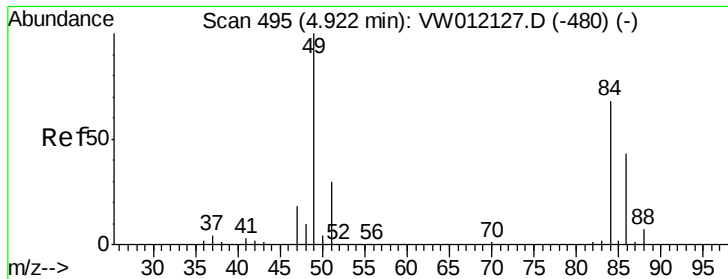
58 29.7 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

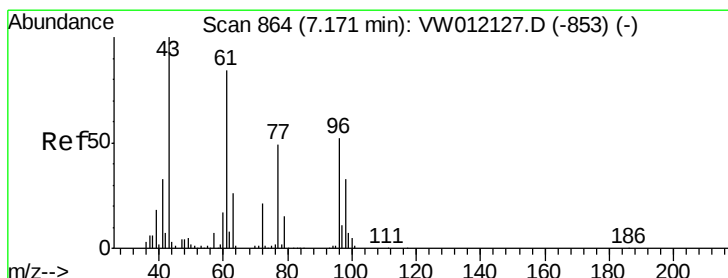
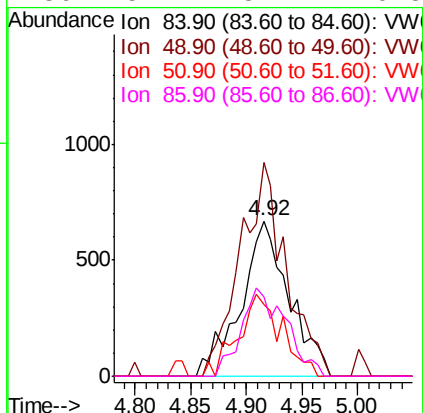
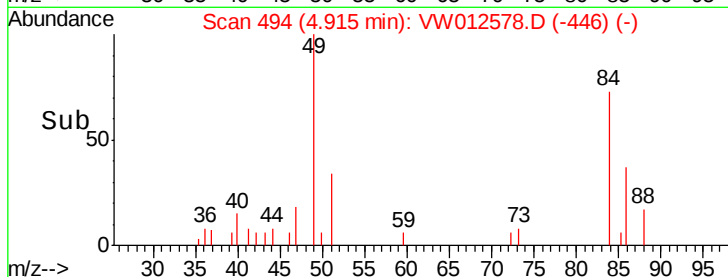
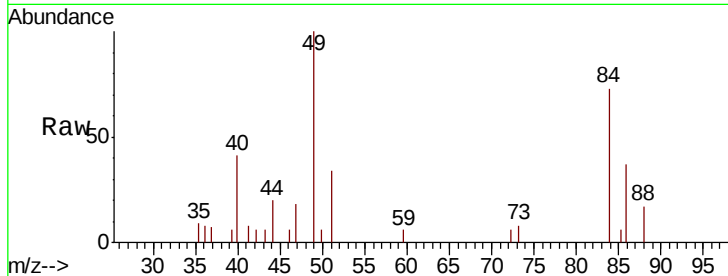




#20
Methylene Chloride
Concen: 13.600 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

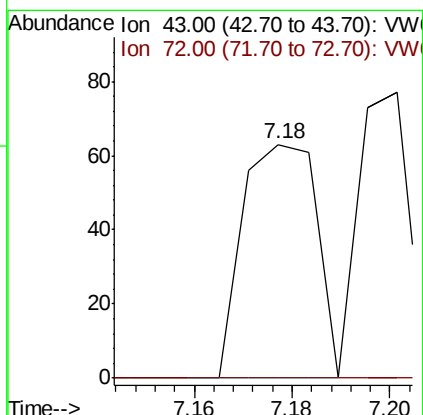
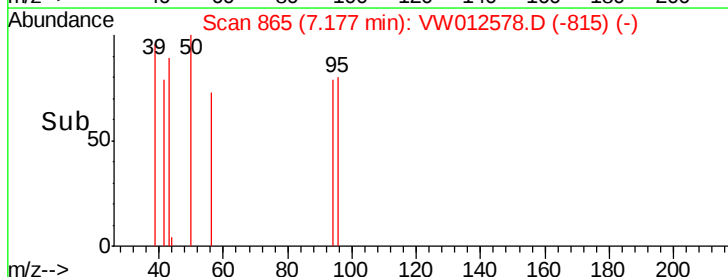
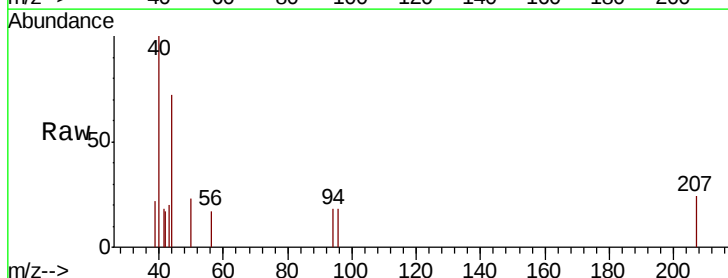
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-B3-(0)

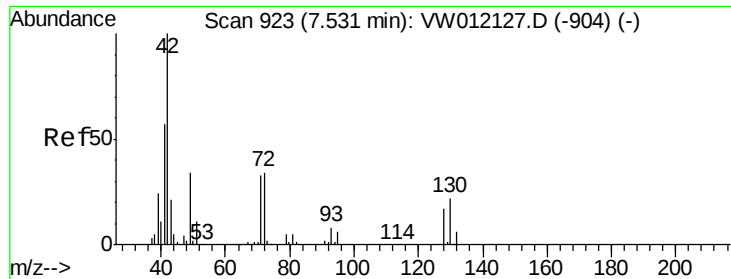
Tgt Ion: 84 Resp: 2029
Ion Ratio Lower Upper
84 100
49 137.7 117.8 176.8
51 46.3 35.6 53.4
86 51.1 51.2 76.8#



#25
2-Butanone
Concen: 1.231 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#

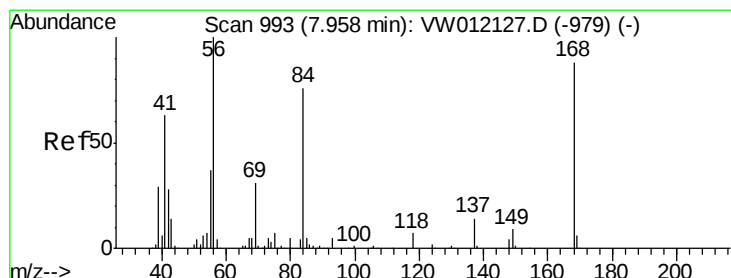
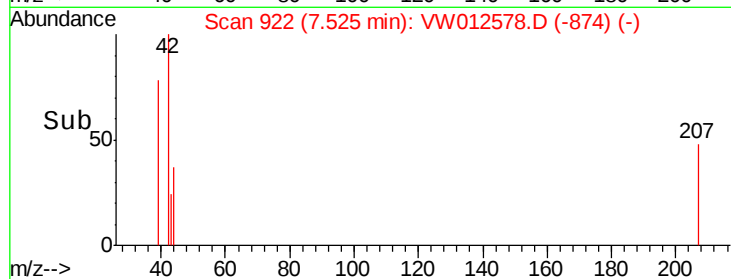
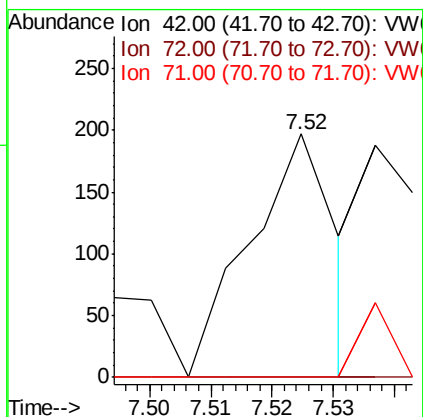
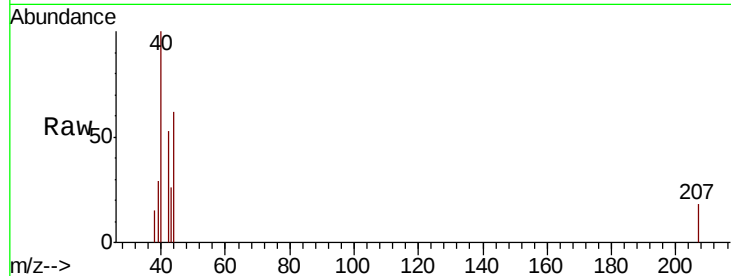




#29
Tetrahydrofuran
Concen: 5.905 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

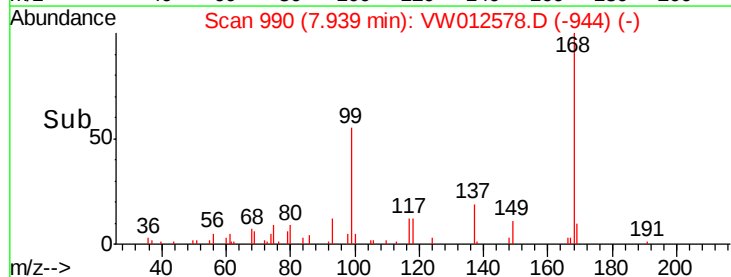
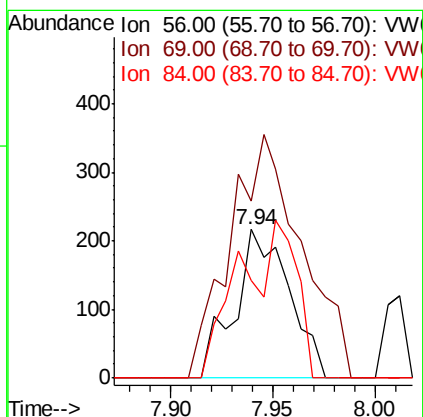
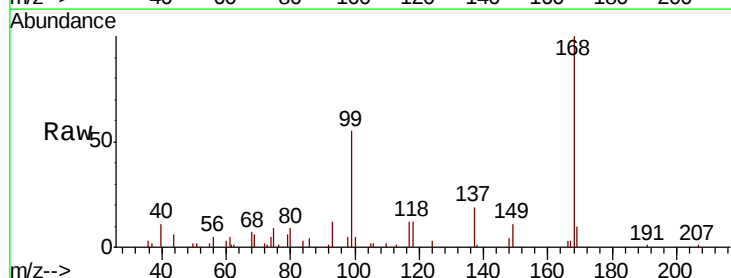
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-B3-(0)

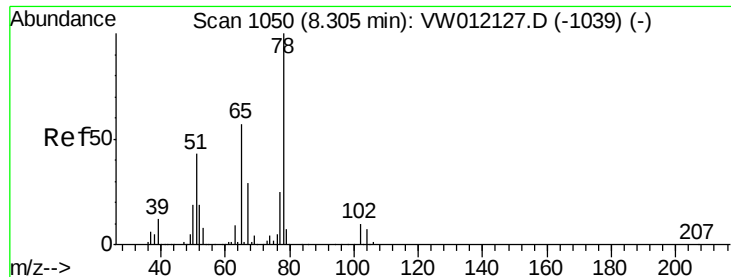
Tgt Ion: 42 Resp: 190
Ion Ratio Lower Upper
42 100
72 0.0 27.3 40.9#
71 11.6 25.5 38.3#



#31
Cyclohexane
Concen: 1.442 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

Tgt Ion: 56 Resp: 401
Ion Ratio Lower Upper
56 100
69 119.4 24.9 37.3#
84 65.7 60.6 90.8





#33

1,2-Dichloroethane-d4

Concen: 41.624 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

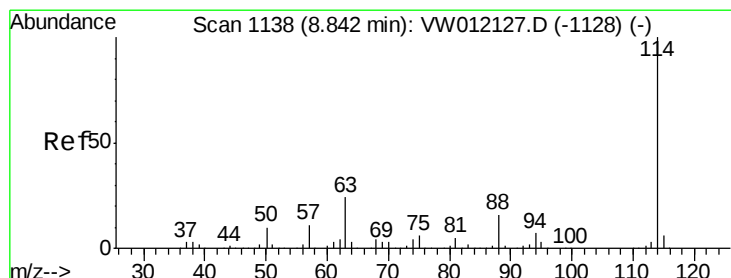
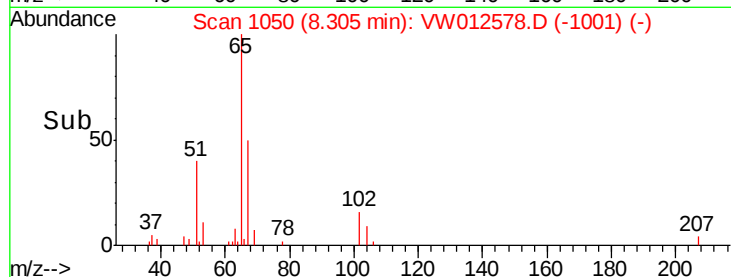
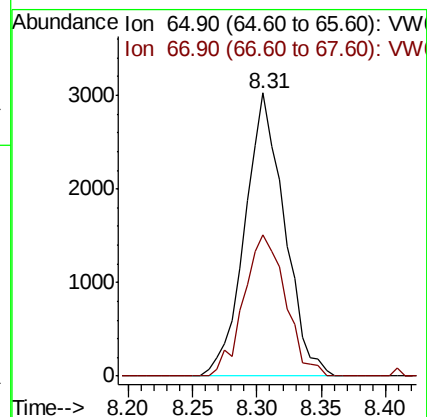
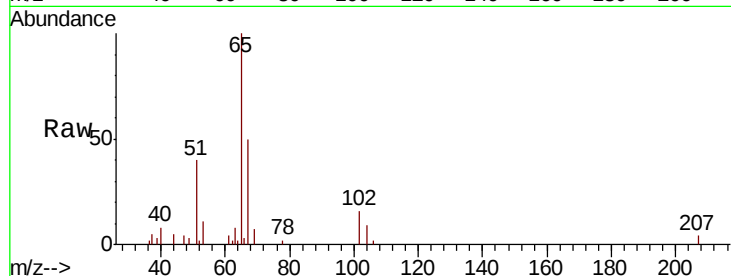
T9-12-13-B3-(0)

Tgt Ion: 65 Resp: 6426

Ion Ratio Lower Upper

65 100

67 52.8 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

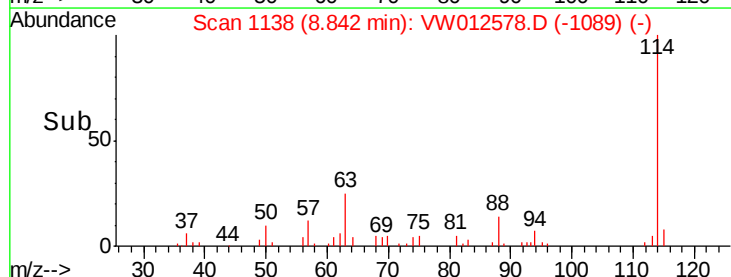
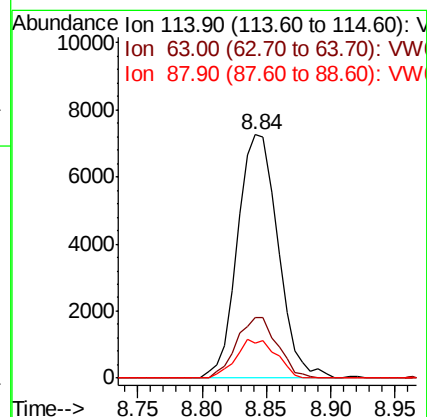
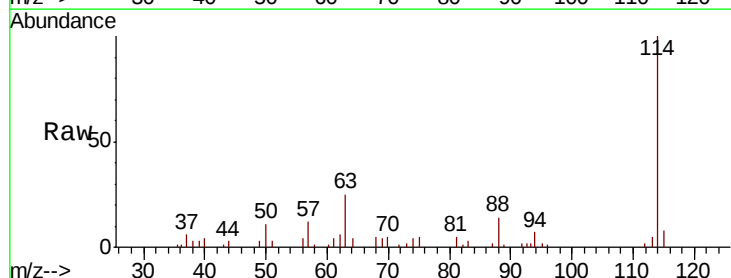
Tgt Ion: 114 Resp: 15788

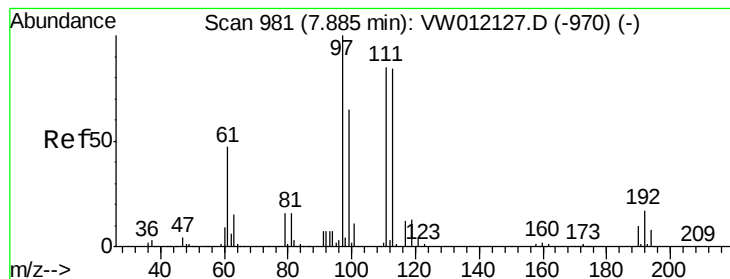
Ion Ratio Lower Upper

114 100

63 25.1 0.0 48.6

88 14.2 0.0 32.2





#35

Dibromofluoromethane

Concen: 57.418 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-B3-(0)

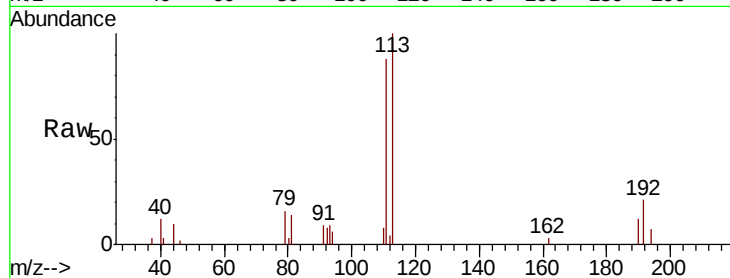
Tgt Ion:113 Resp: 5411

Ion Ratio Lower Upper

113 100

111 96.0 82.7 124.1

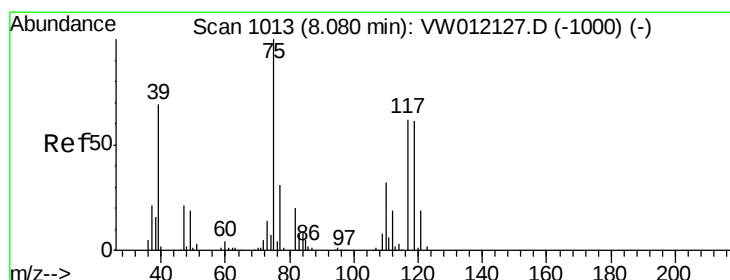
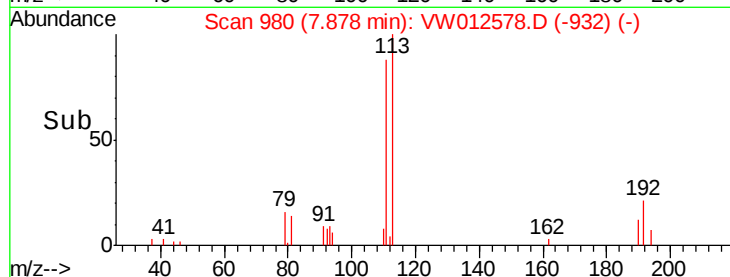
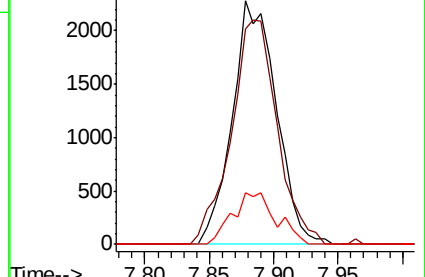
192 21.2 16.2 24.2



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



#36

1,1-Dichloropropene

Concen: 6.699 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

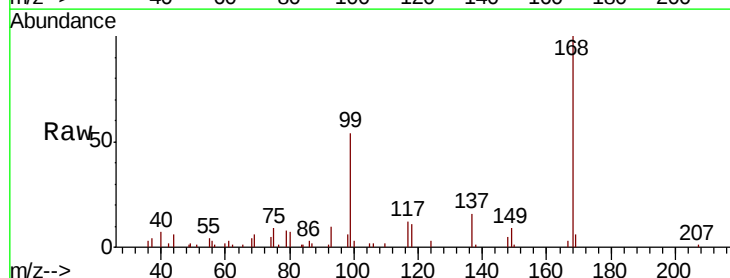
Tgt Ion: 75 Resp: 1093

Ion Ratio Lower Upper

75 100

110 13.6 15.6 46.8#

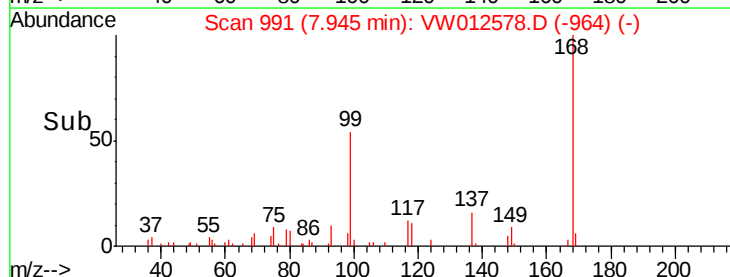
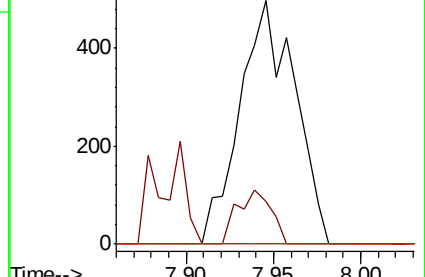
77 0.0 24.6 36.8#

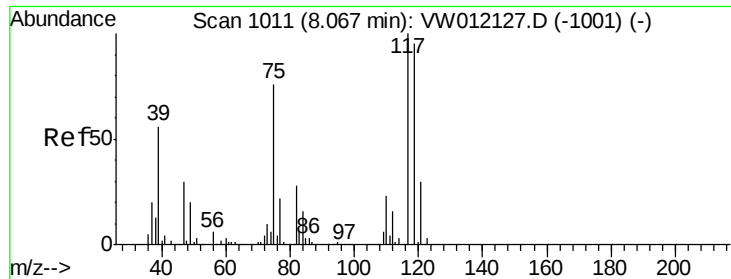


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

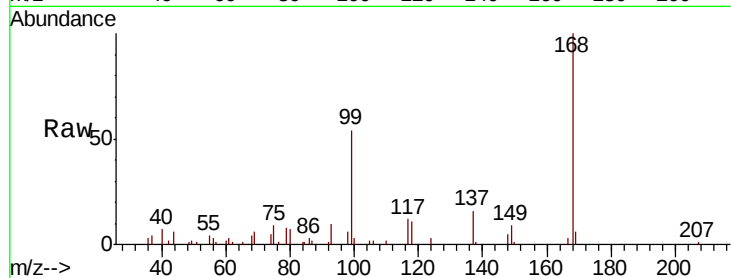




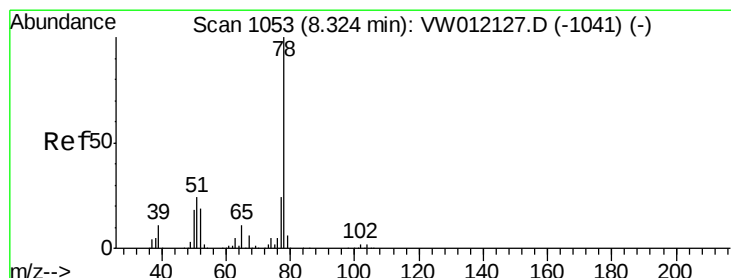
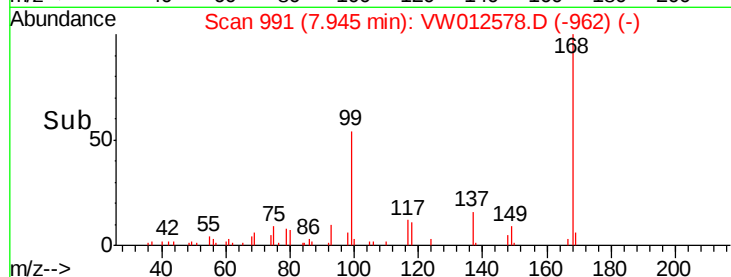
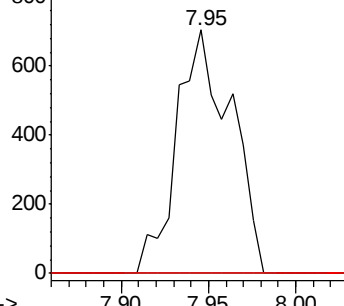
#38
Carbon Tetrachloride
Concen: 10.863 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-B3-(0)

Tgt Ion:117 Resp: 1534
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 23.8 35.8#

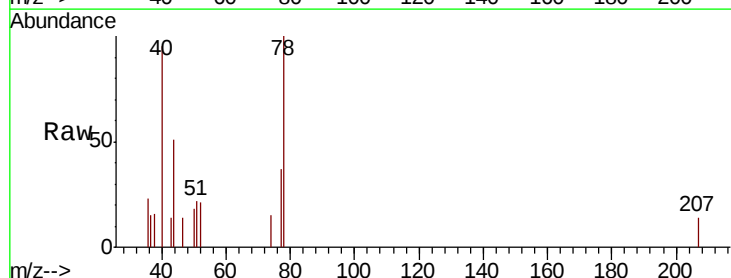


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

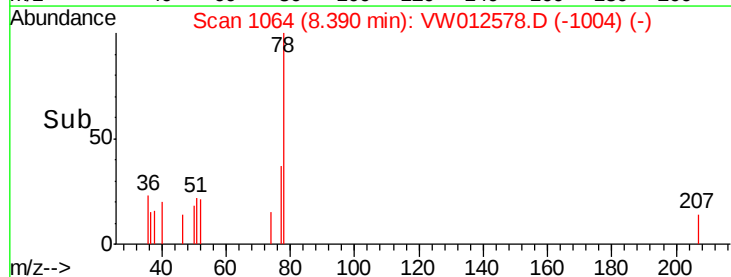
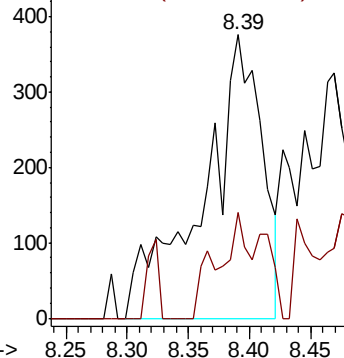


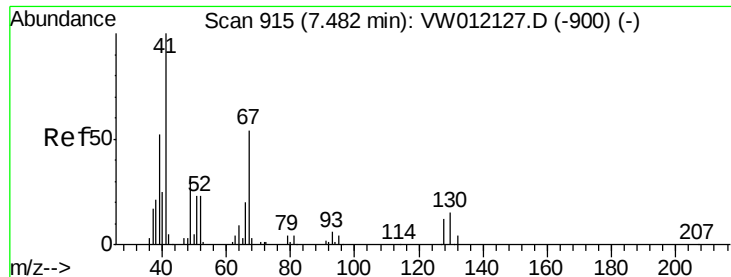
#40
Benzene
Concen: 2.840 ug/l
RT: 8.39 min Scan# 1064
Delta R.T. 0.07 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

Tgt Ion: 78 Resp: 1265
Ion Ratio Lower Upper
78 100
77 37.2 19.5 29.3#



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW





#41

Methacrylonitrile

Concen: 1.370 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-B3-(0)

Tgt Ion: 41 Resp: 72

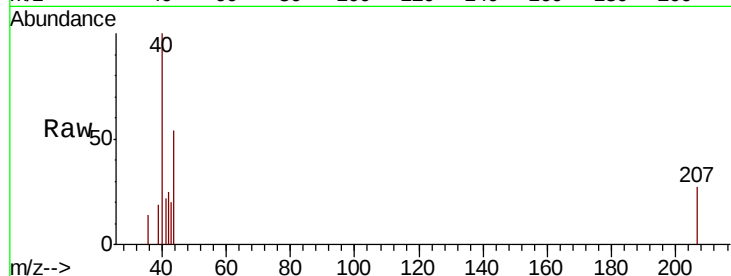
Ion Ratio Lower Upper

41 100

39 69.4 45.8 68.8#

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

150

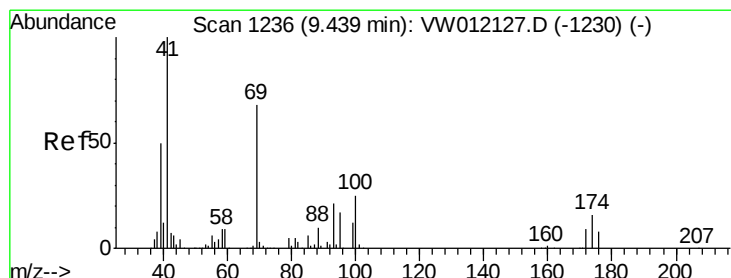
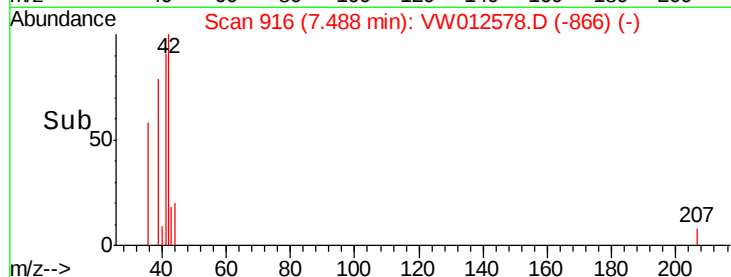
100

7.49

50

0

Time-->



#48

Methyl methacrylate

Concen: 2.461 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

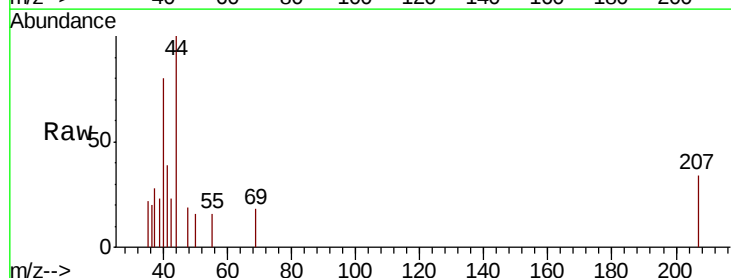
Tgt Ion: 41 Resp: 194

Ion Ratio Lower Upper

41 100

69 28.9 56.7 85.1#

39 104.6 42.0 63.0#



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

150

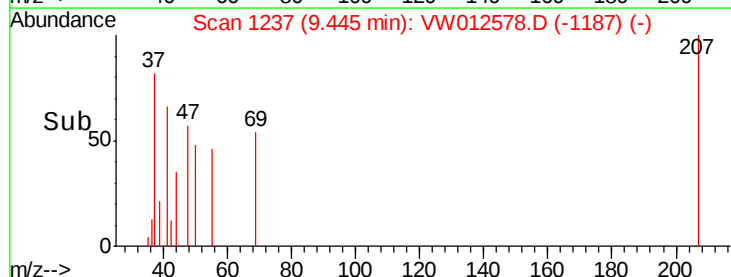
100

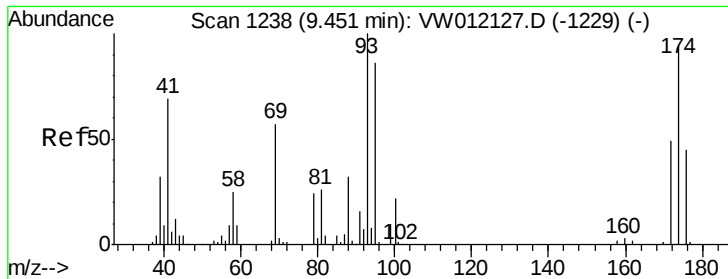
9.45

50

0

Time-->





#49

1,4-Dioxane

Concen: 26.939 ug/l

RT: 9.41 min Scan# 1232

Delta R.T. -0.04 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-B3-(0)

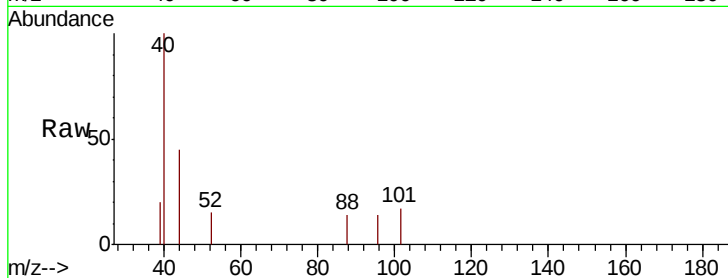
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 0.0 32.9 49.3#

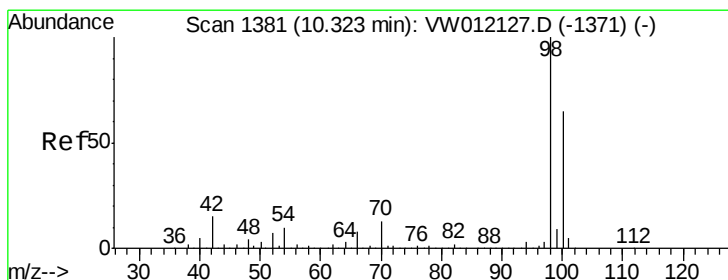
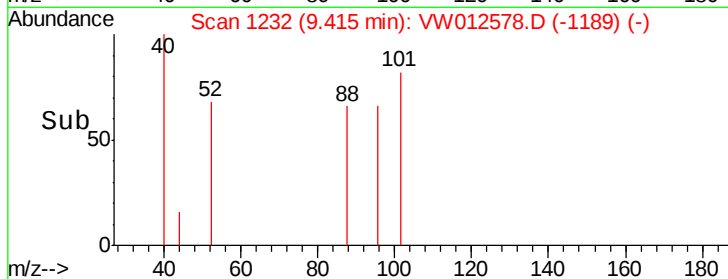
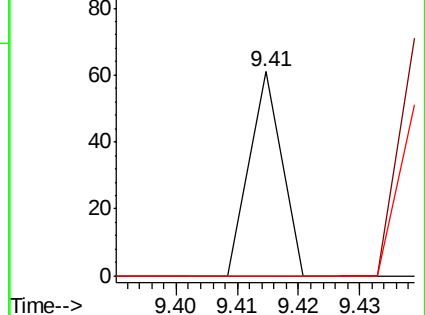
58 0.0 71.0 106.4#



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: 44.754 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012578.D

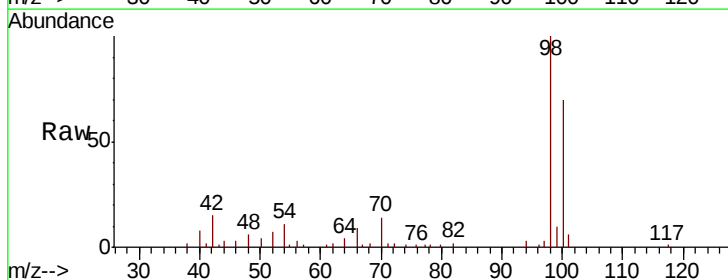
Acq: 04 Sep 2019 06:06

Tgt Ion: 98 Resp: 17101

Ion Ratio Lower Upper

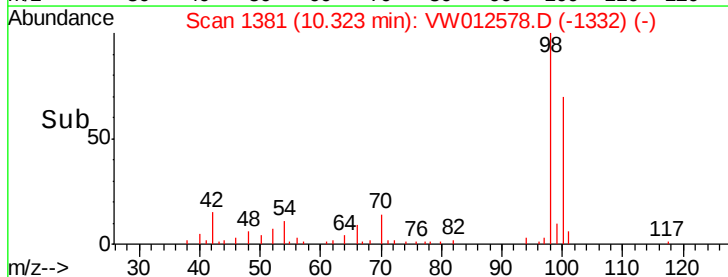
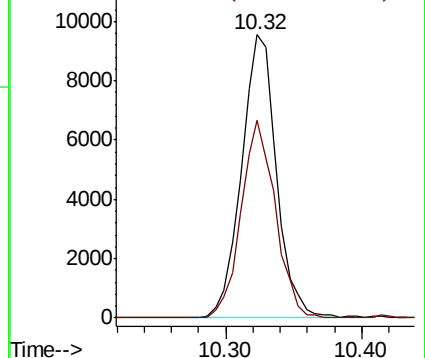
98 100

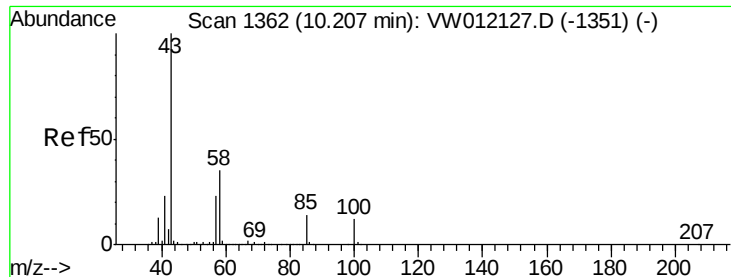
100 68.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

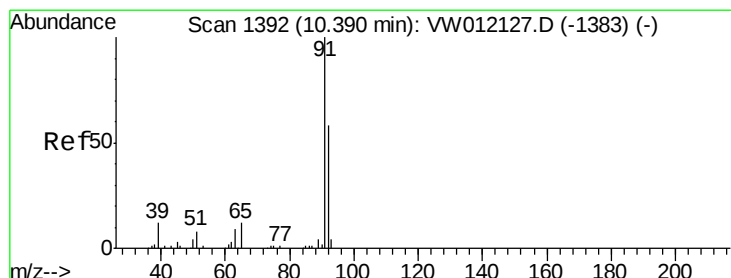
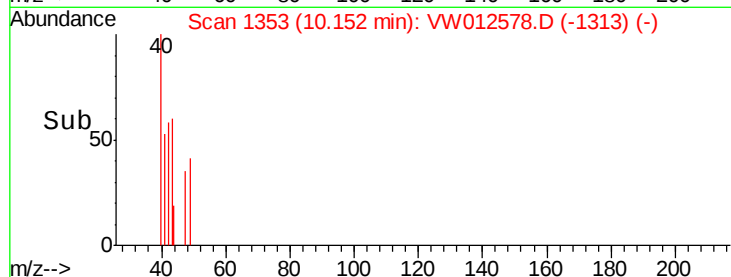
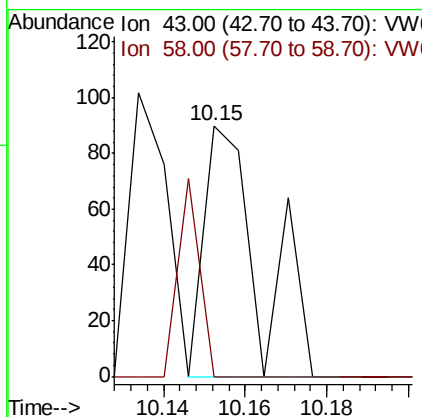
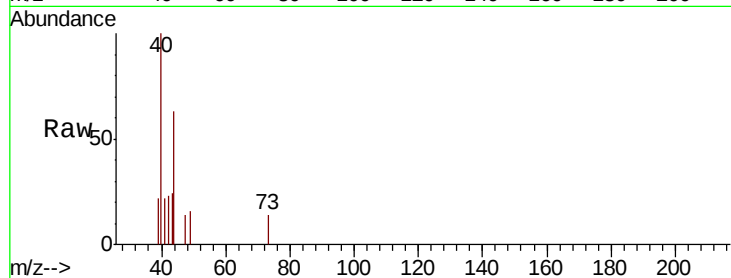




#51
 4-Methyl-2-Pentanone
 Concen: 1.021 ug/l
 RT: 10.15 min Scan# 1353
 Delta R.T. -0.06 min
 Lab File: VW012578.D
 Acq: 04 Sep 2019 06:06

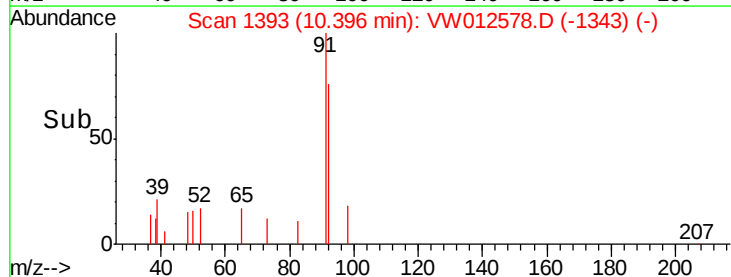
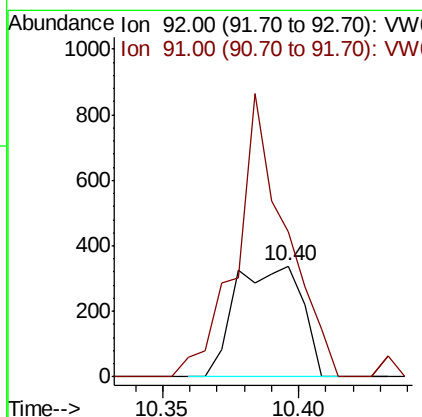
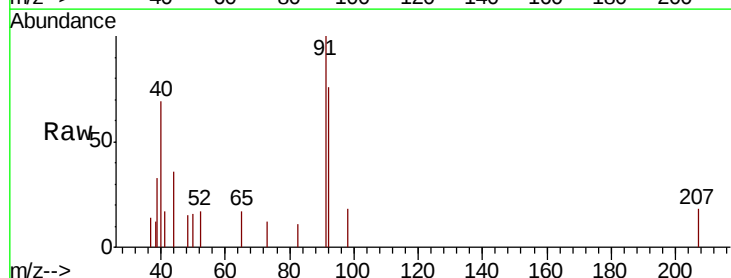
Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-B3-(0)

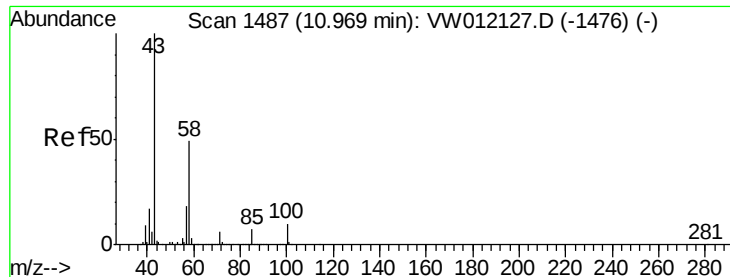
Tgt Ion: 43 Resp: 86
 Ion Ratio Lower Upper
 43 100
 58 30.2 28.2 42.2



#52
 Toluene
 Concen: 2.152 ug/l
 RT: 10.40 min Scan# 1393
 Delta R.T. 0.01 min
 Lab File: VW012578.D
 Acq: 04 Sep 2019 06:06

Tgt Ion: 92 Resp: 576
 Ion Ratio Lower Upper
 92 100
 91 190.1 136.6 204.8





#59

2-Hexanone

Concen: 1.191 ug/l

RT: 10.93 min Scan# 1480

Delta R.T. -0.04 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

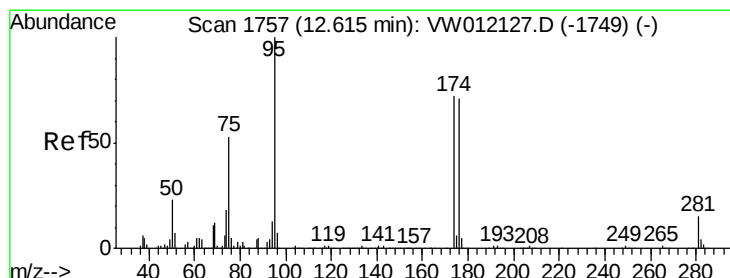
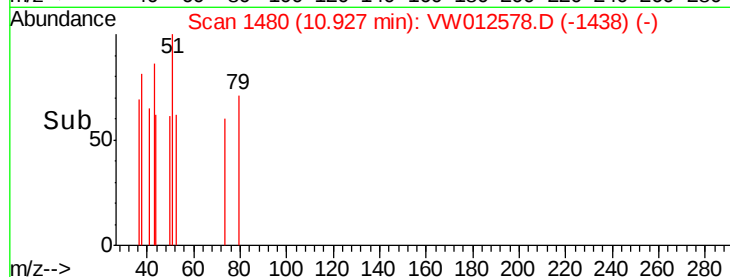
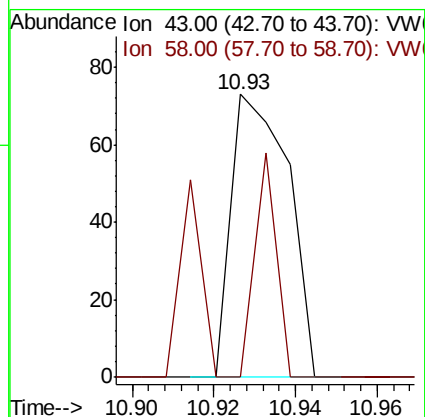
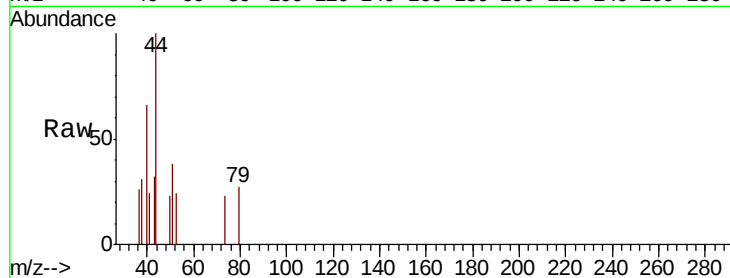
T9-12-13-B3-(0)

Tgt Ion: 43 Resp: 71

Ion Ratio Lower Upper

43 100

58 29.6 24.3 72.9



#62

4-Bromofluorobenzene

Concen: 17.707 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

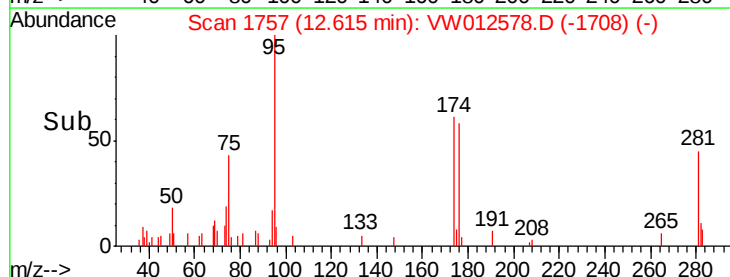
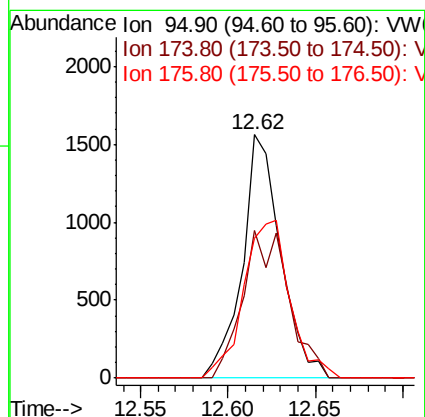
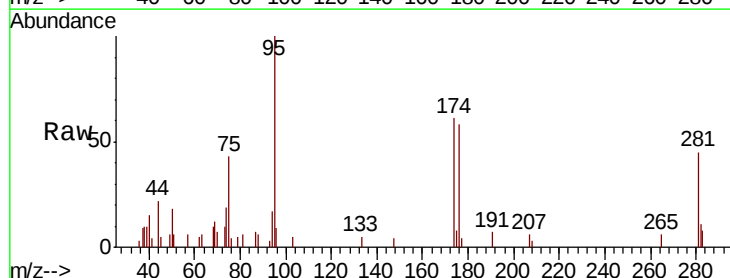
Tgt Ion: 95 Resp: 2385

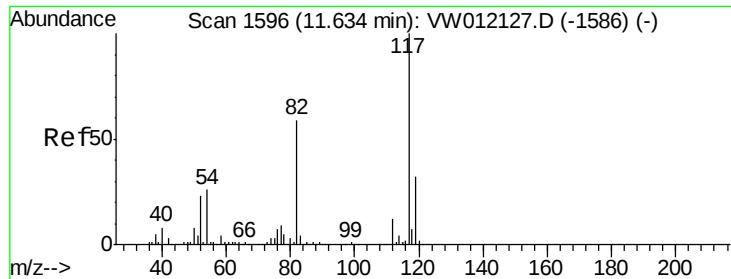
Ion Ratio Lower Upper

95 100

174 72.6 0.0 150.8

176 78.1 0.0 148.6

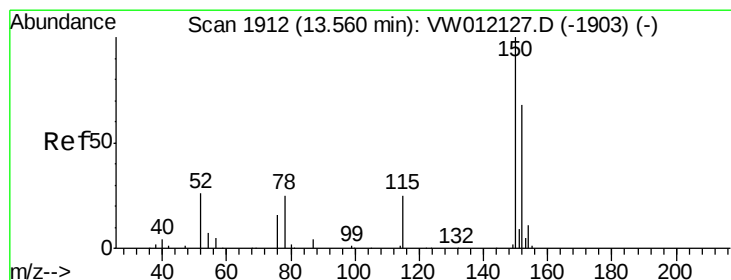
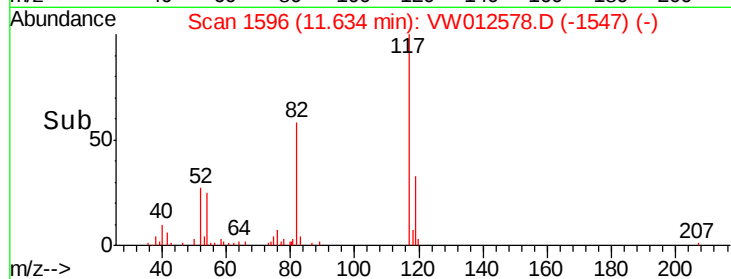
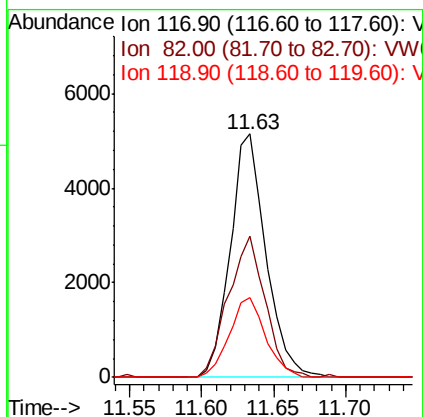
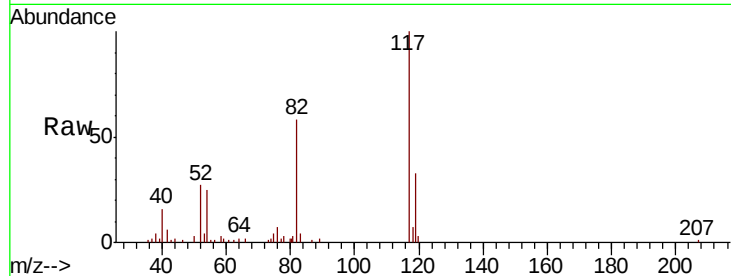




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

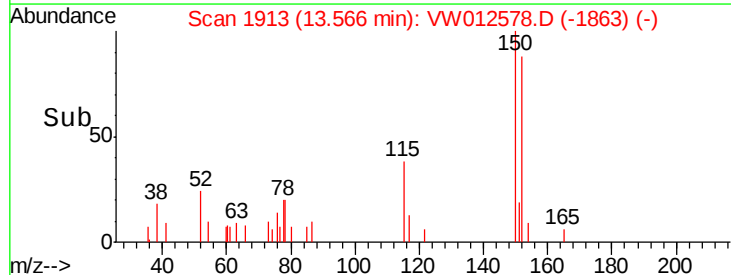
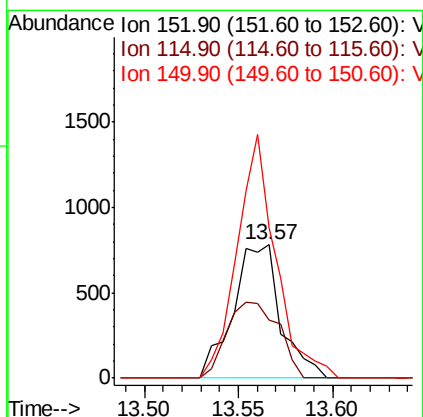
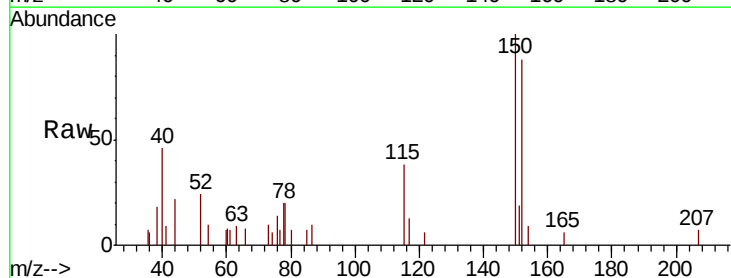
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-B3-(0)

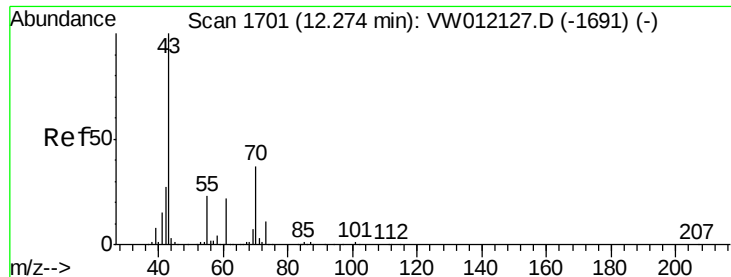
Tgt Ion:117 Resp: 8898
Ion Ratio Lower Upper
117 100
82 57.9 47.4 71.2
119 32.8 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.01 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

Tgt Ion:152 Resp: 1359
Ion Ratio Lower Upper
152 100
115 61.9 30.1 90.3
150 148.7 0.0 345.8

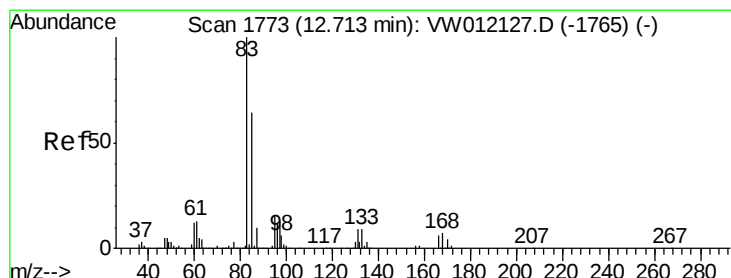
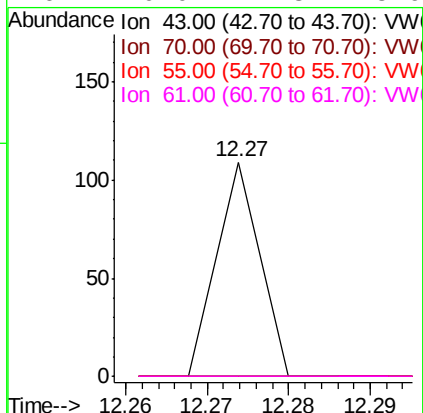
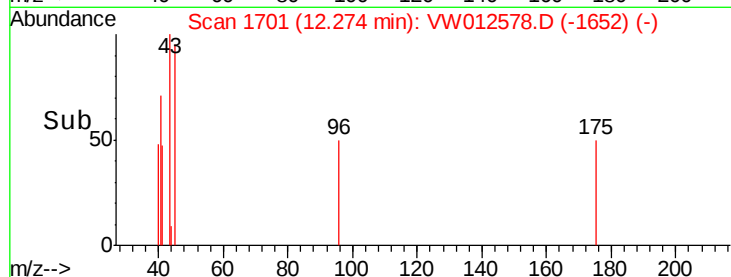
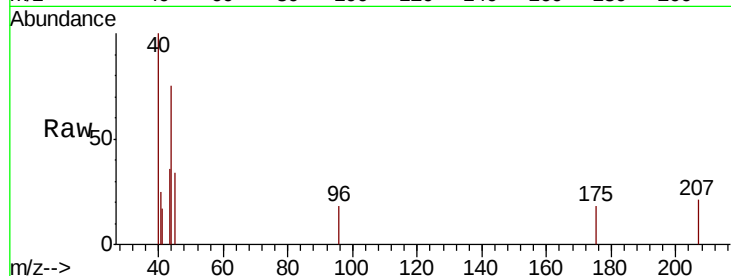




#74
N-ethyl acetate
Concen: 1.300 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

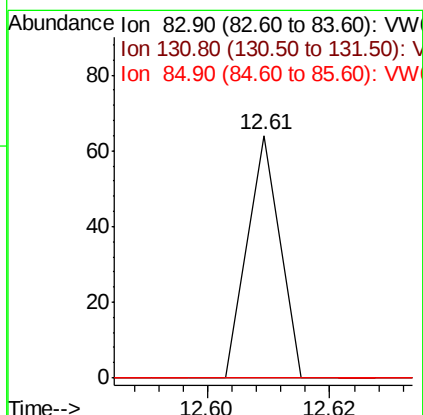
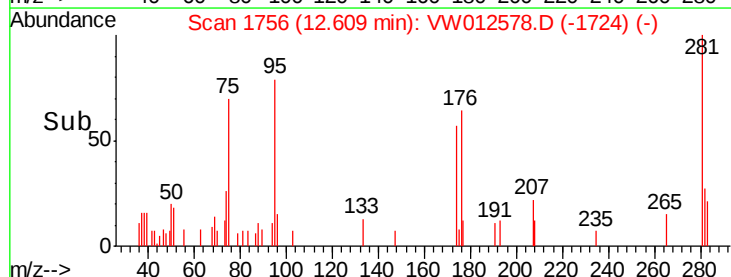
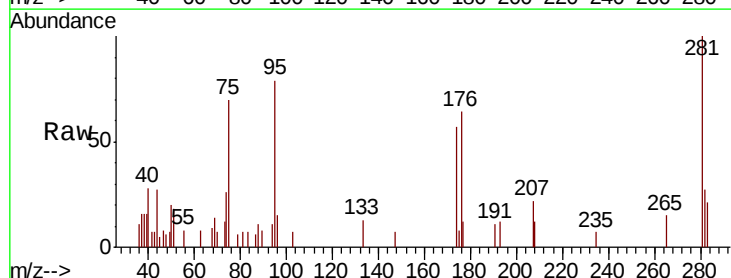
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-B3-(0)

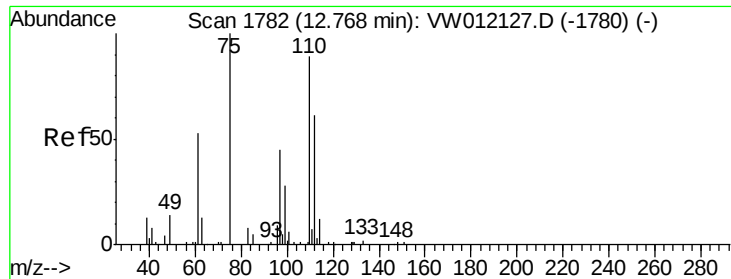
Tgt Ion:	43	Resp:	40
Ion	Ratio	Lower	Upper
43	100		
70	0.0	28.6	43.0#
55	0.0	17.8	26.6#
61	0.0	17.3	25.9#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.232 ug/l
RT: 12.61 min Scan# 1756
Delta R.T. -0.10 min
Lab File: VW012578.D
Acq: 04 Sep 2019 06:06

Tgt Ion:	83	Resp:	23
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	0.0	31.9	95.7#





#76

1,2,3-Trichloropropane

Concen: 104.566 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

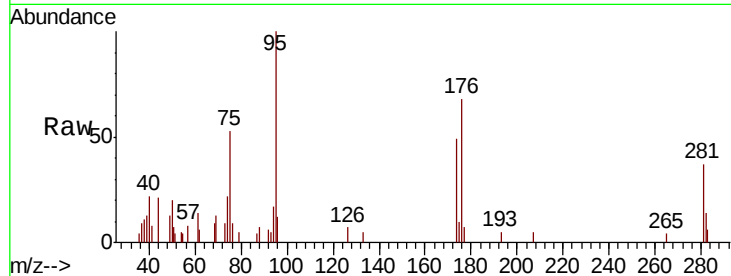
T9-12-13-B3-(0)

Tgt Ion: 75 Resp: 1384

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

800

600

400

200

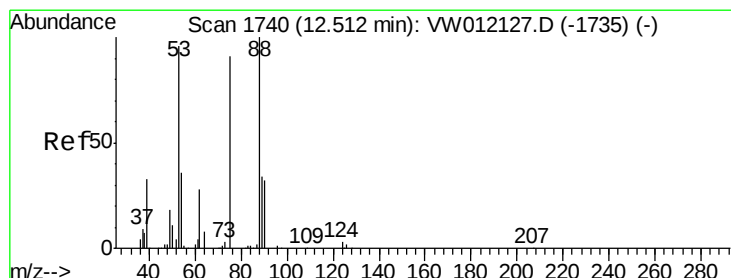
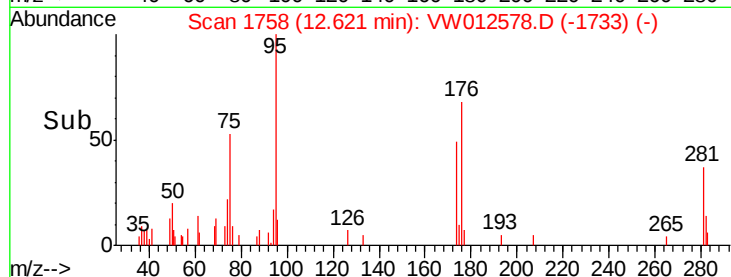
0

12.55

12.60

12.62

12.65



#81

trans-1,4-Dichloro-2-butene

Concen: 229.264 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

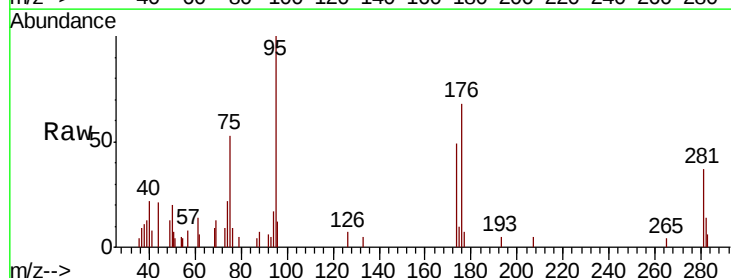
Tgt Ion: 75 Resp: 1384

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

89 2.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

1000

800

600

400

200

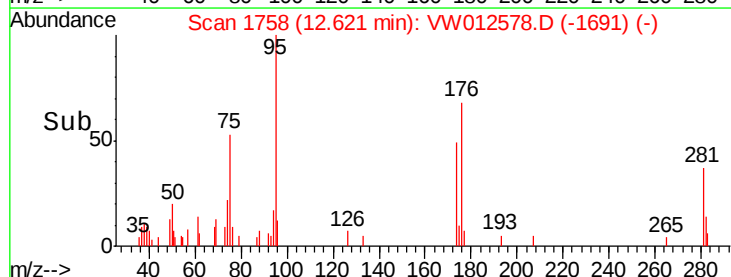
0

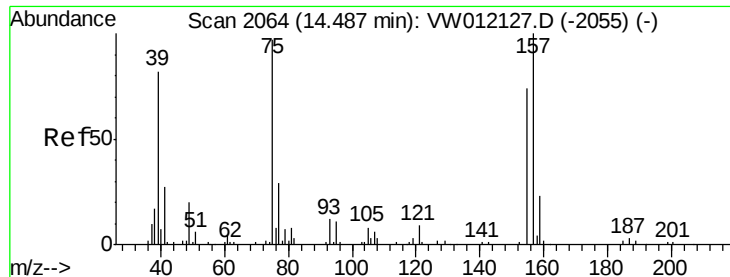
12.55

12.60

12.62

12.65





#92

1,2-Dibromo-3-Chloropropane

Concen: 20.335 ug/l

RT: 14.70 min Scan# 2099

Delta R.T. 0.21 min

Lab File: VW012578.D

Acq: 04 Sep 2019 06:06

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-B3-(0)

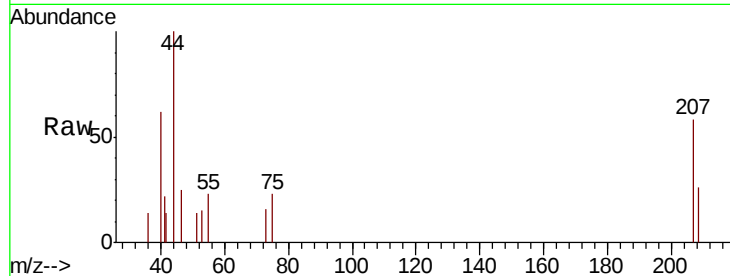
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

157 0.0 50.5 151.5#



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

