

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090219\
 Data File : VW012509.D
 Acq On : 02 Sep 2019 19:37
 Operator : SY/VA
 Sample : K4529-07RE
 Misc : 4.12G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-T4-(1.9)

Quant Time: Sep 03 07:41:47 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	219088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	355198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	273460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	91614	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	132278	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
35) Dibromofluoromethane	7.88	113	105743	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
50) Toluene-d8	10.32	98	419703	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
62) 4-Bromofluorobenzene	12.62	95	122705	40.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.98%	

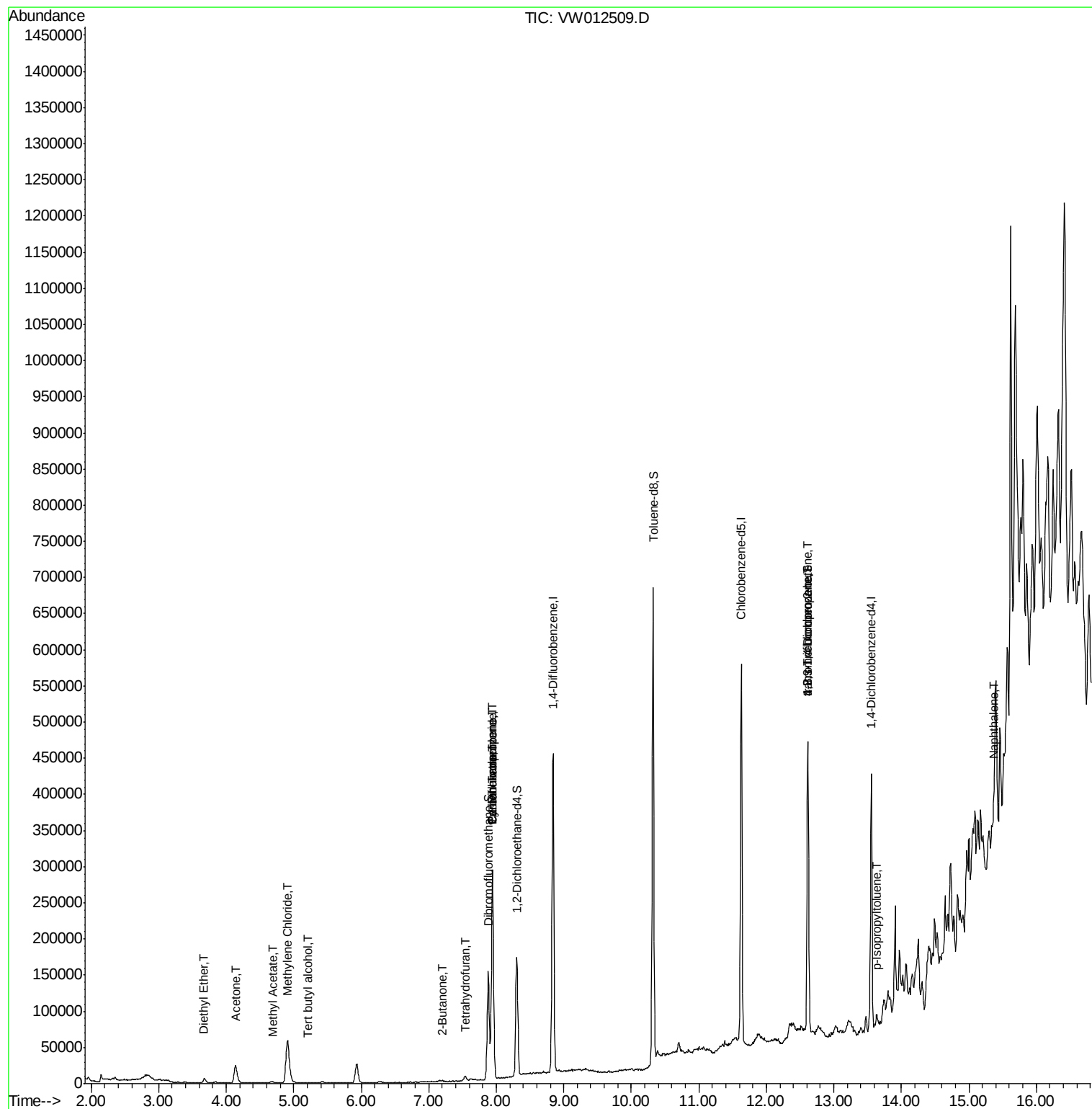
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	3095	2.539	ug/l	80
11) Tert butyl alcohol	5.21	59	1207	7.701	ug/l	99
16) Acetone	4.14	43	53029	79.654	ug/l	96
18) Methyl Acetate	4.68	43	4778	2.898	ug/l #	76
20) Methylene Chloride	4.91	84	47356	18.816	ug/l	95
25) 2-Butanone	7.20	43	1743	1.927	ug/l #	82
29) Tetrahydrofuran	7.55	42	6389	11.771	ug/l	99
31) Cyclohexane	7.94	56	5516	1.176	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17546	4.780	ug/l #	53
38) Carbon Tetrachloride	7.95	117	21715	6.835	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	65036	72.889	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	65036	159.813	ug/l #	6
86) p-Isopropyltoluene	13.65	119	15118	2.432	ug/l #	51
95) Naphthalene	15.36	128	1041	4.596	ug/l #	76

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW090219\
Data File : VW012509.D
Acq On : 02 Sep 2019 19:37
Operator : SY/VA
Sample : K4529-07RE
Misc : 4.12G/5ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-T4-(1.9)

Quant Time: Sep 03 07:41:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

Instrument :

MSVOA_W

ClientSampleId :

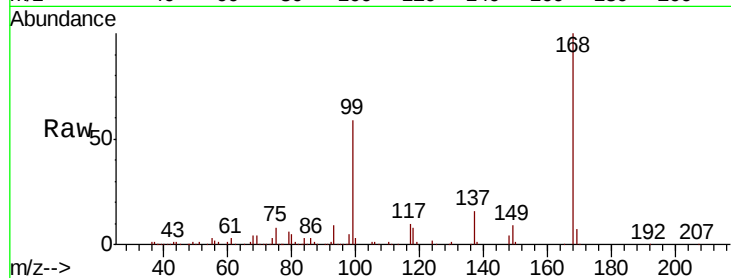
T9-12-13-T4-(1.9)

Tgt Ion:168 Resp: 219088

Ion Ratio Lower Upper

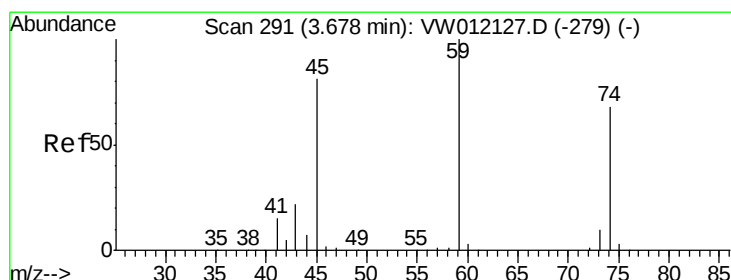
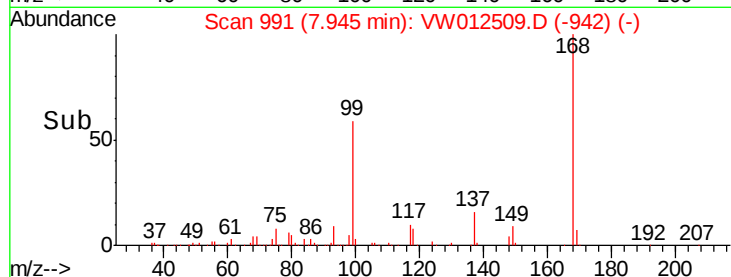
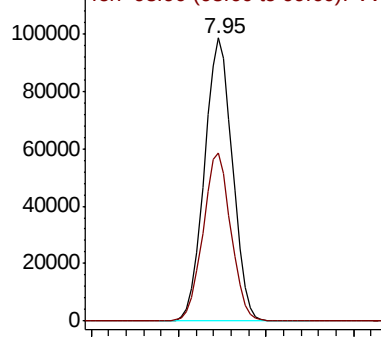
168 100

99 59.1 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.539 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012509.D

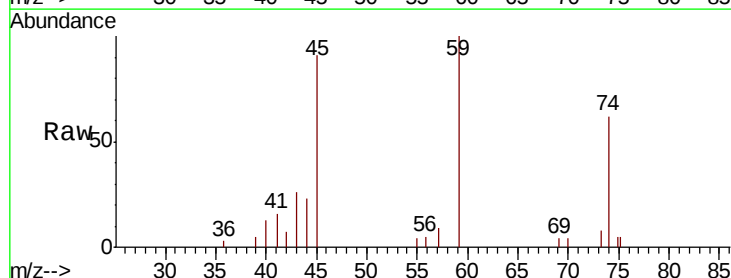
Acq: 02 Sep 2019 19:37

Tgt Ion: 74 Resp: 3095

Ion Ratio Lower Upper

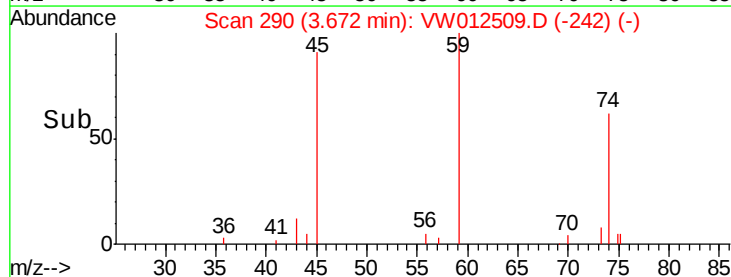
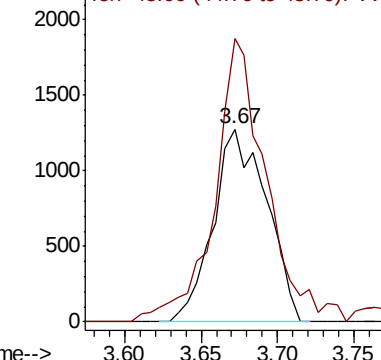
74 100

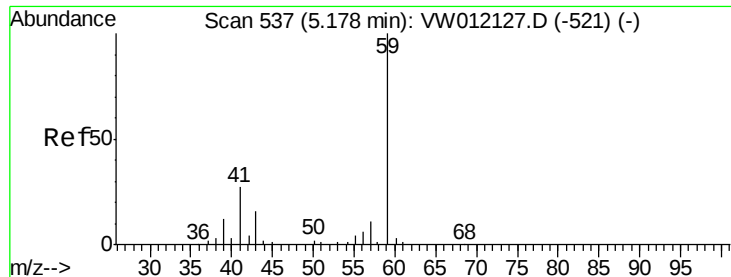
45 140.9 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

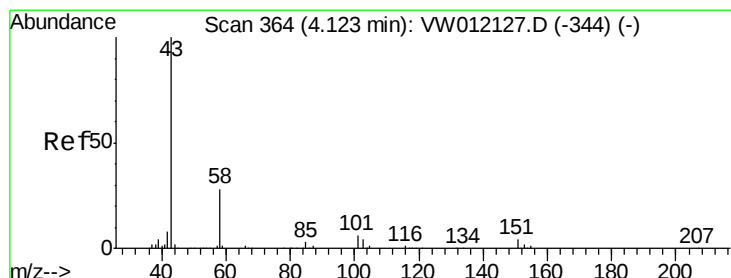
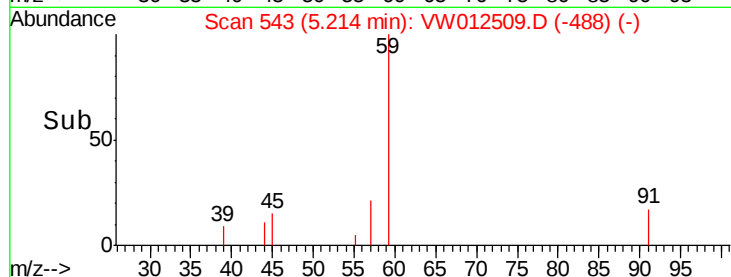
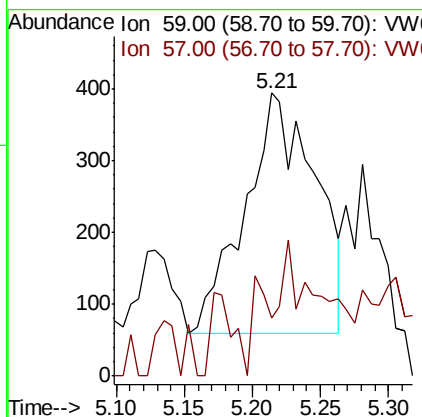
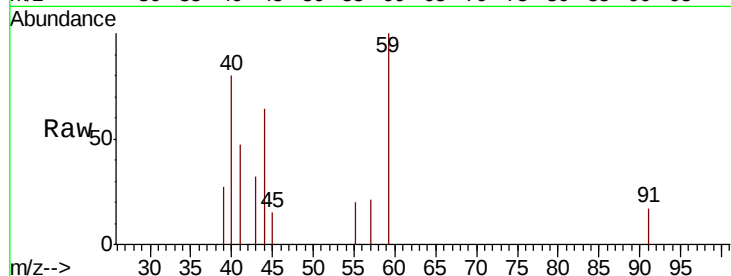




#11
Tert butyl alcohol
Concen: 7.701 ug/l
RT: 5.21 min Scan# 543
Delta R.T. 0.04 min
Lab File: VW012509.D
Acq: 02 Sep 2019 19:37

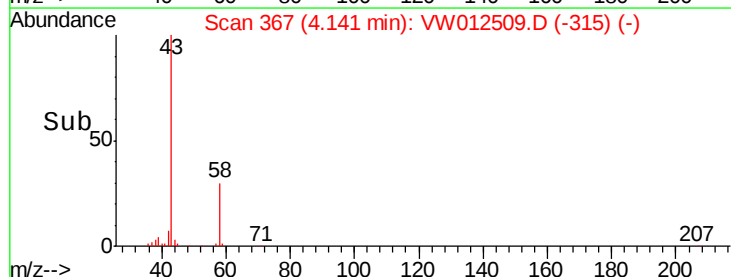
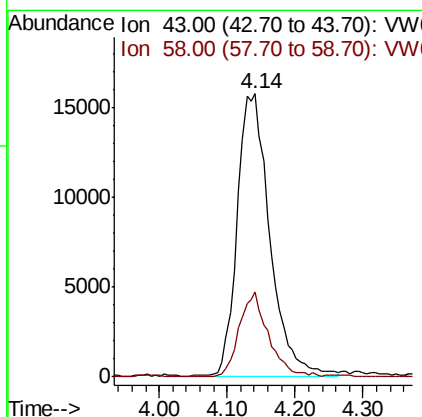
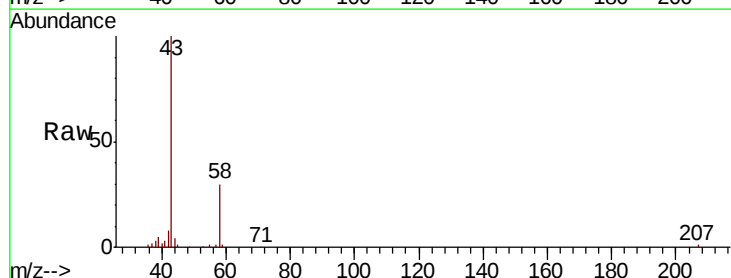
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-T4-(1.9)

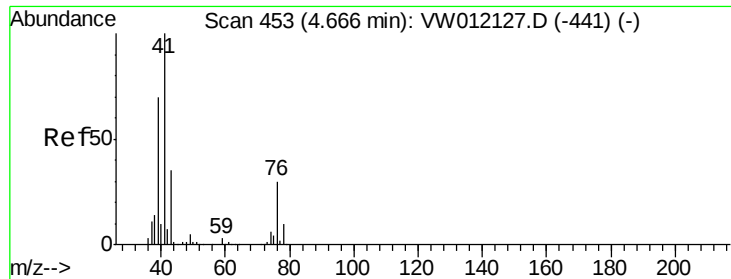
Tgt Ion: 59 Resp: 1207
Ion Ratio Lower Upper
59 100
57 11.6 9.0 13.4



#16
Acetone
Concen: 79.654 ug/l
RT: 4.14 min Scan# 367
Delta R.T. 0.02 min
Lab File: VW012509.D
Acq: 02 Sep 2019 19:37

Tgt Ion: 43 Resp: 53029
Ion Ratio Lower Upper
43 100
58 29.9 22.4 33.6

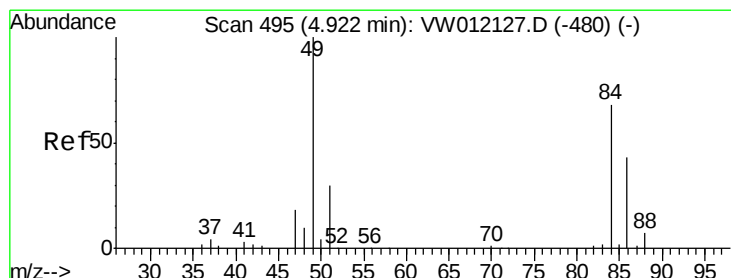
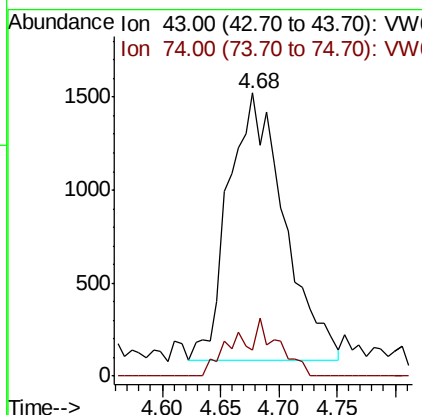
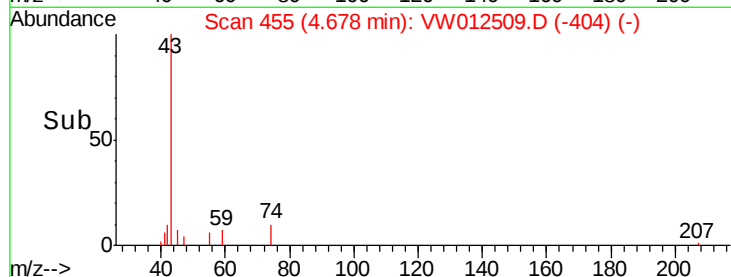
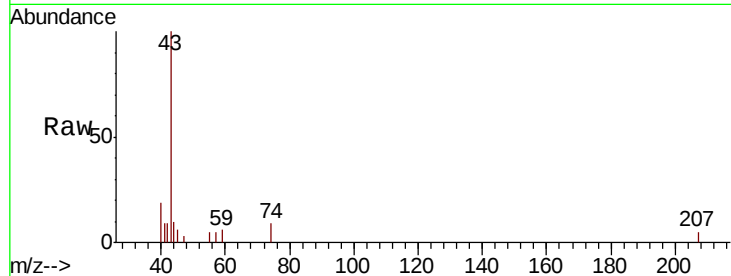




#18
Methyl Acetate
Concen: 2.898 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW012509.D
Acq: 02 Sep 2019 19:37

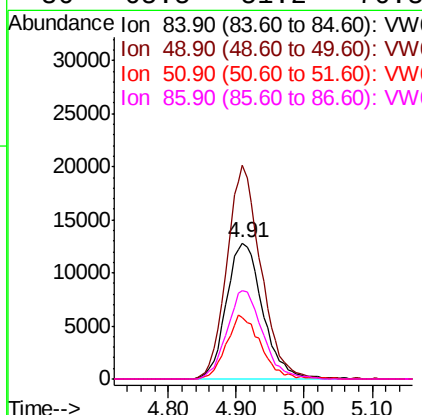
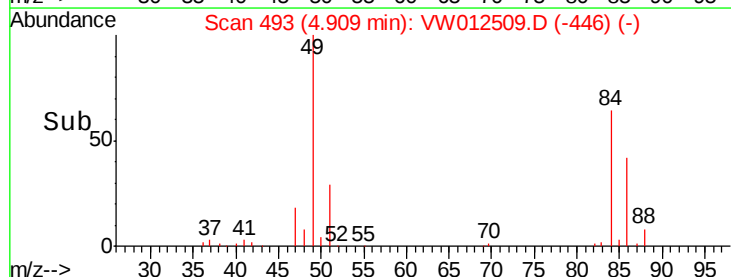
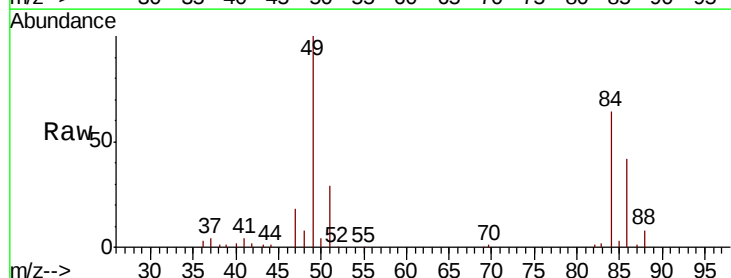
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-T4-(1.9)

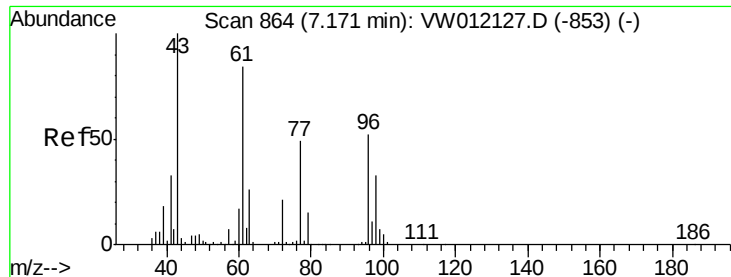
Tgt Ion: 43 Resp: 4778
Ion Ratio Lower Upper
43 100
74 8.6 15.7 23.5#



#20
Methylene Chloride
Concen: 18.816 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012509.D
Acq: 02 Sep 2019 19:37

Tgt Ion: 84 Resp: 47356
Ion Ratio Lower Upper
84 100
49 157.3 117.8 176.8
51 45.0 35.6 53.4
86 65.5 51.2 76.8





#25

2-Butanone

Concen: 1.927 ug/l

RT: 7.20 min Scan# 868

Delta R.T. 0.02 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

Instrument :

MSVOA_W

ClientSampleId :

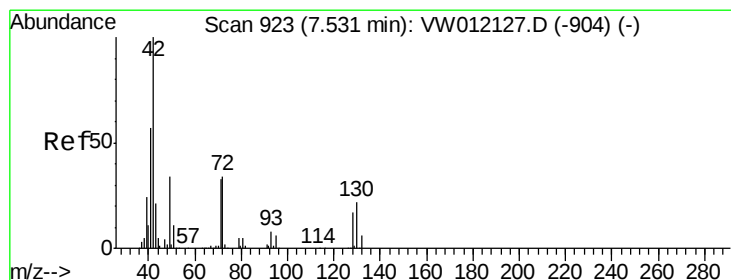
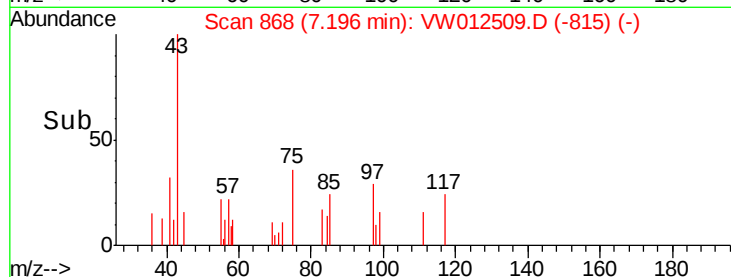
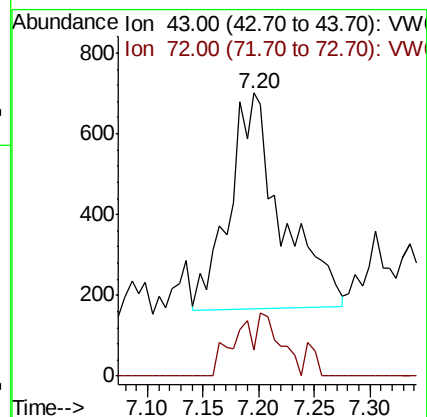
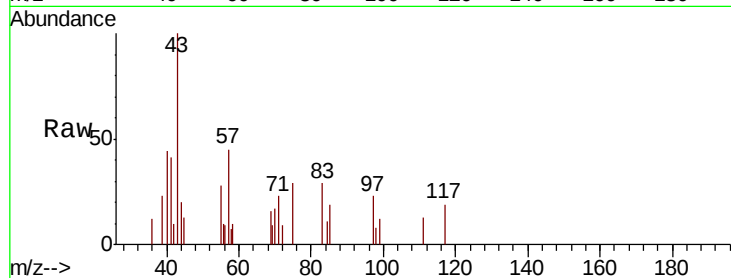
T9-12-13-T4-(1.9)

Tgt Ion: 43 Resp: 1743

Ion Ratio Lower Upper

43 100

72 12.1 16.6 24.8#



#29

Tetrahydrofuran

Concen: 11.771 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

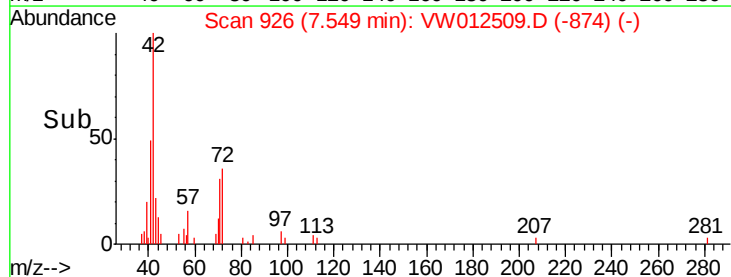
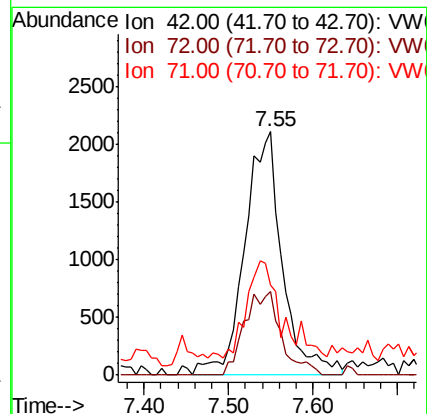
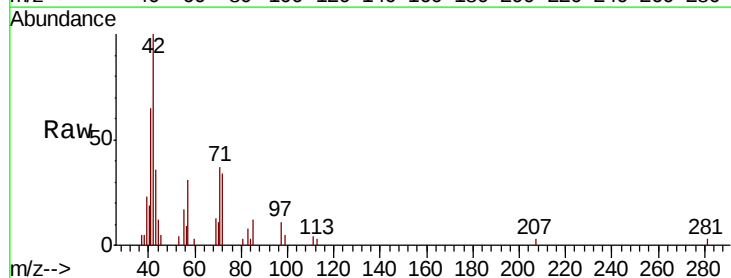
Tgt Ion: 42 Resp: 6389

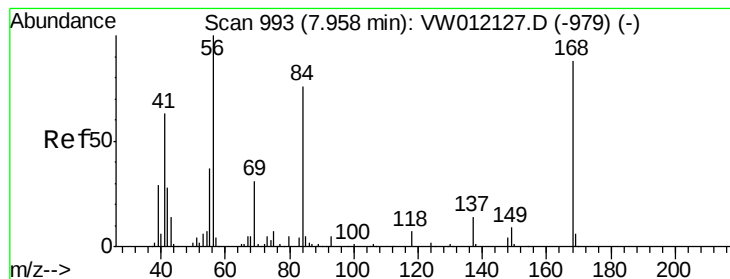
Ion Ratio Lower Upper

42 100

72 33.4 27.3 40.9

71 32.4 25.5 38.3





#31

Cyclohexane

Concen: 1.176 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-T4-(1.9)

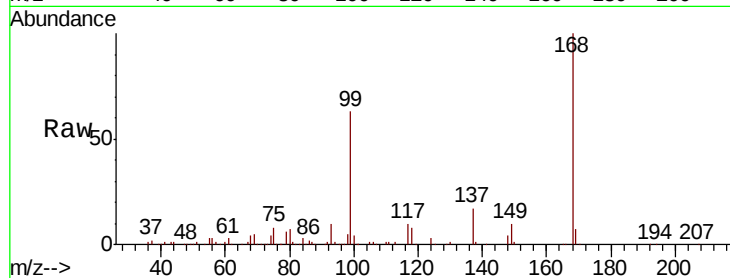
Tgt Ion: 56 Resp: 5516

Ion Ratio Lower Upper

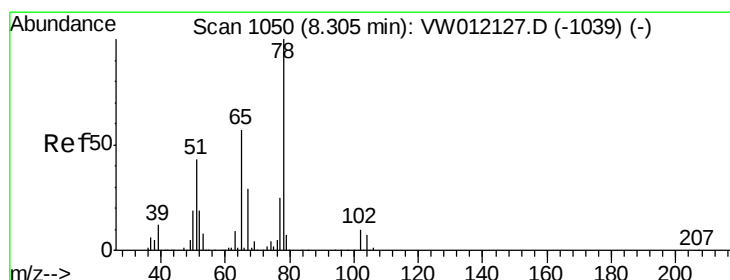
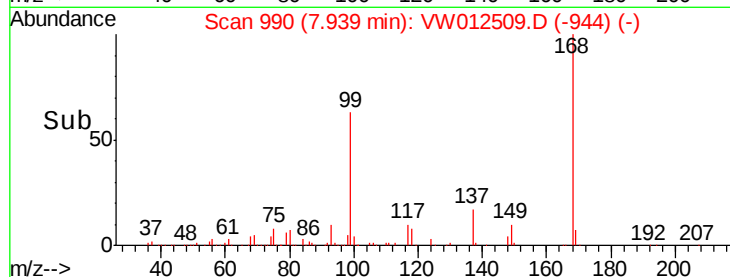
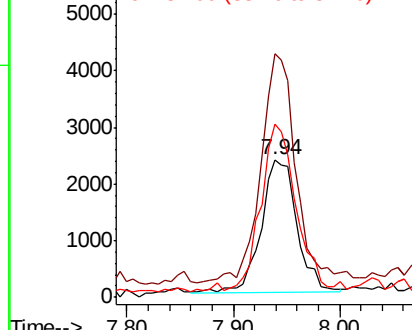
56 100

69 172.4 24.9 37.3#

84 127.5 60.6 90.8#



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: 50.790 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012509.D

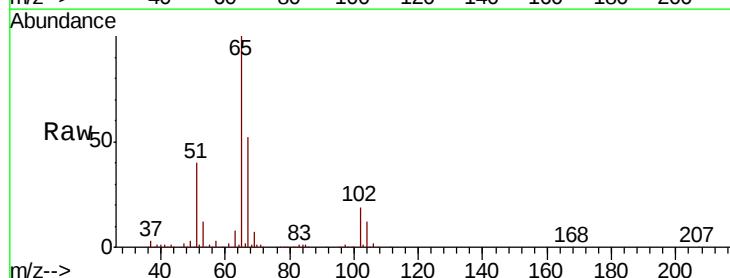
Acq: 02 Sep 2019 19:37

Tgt Ion: 65 Resp: 132278

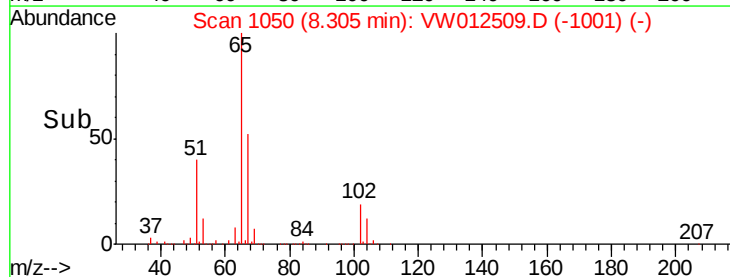
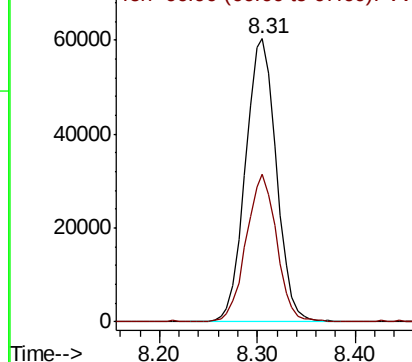
Ion Ratio Lower Upper

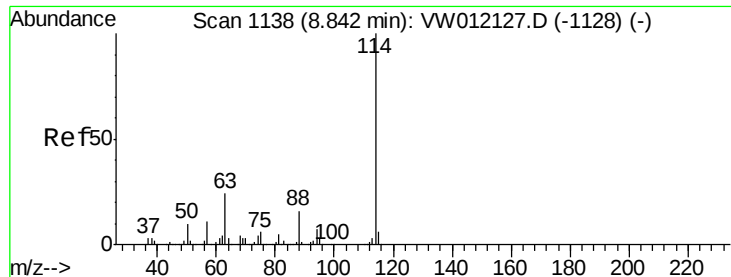
65 100

67 51.4 0.0 102.6



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

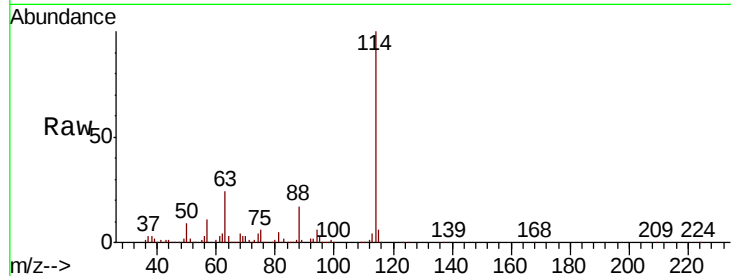




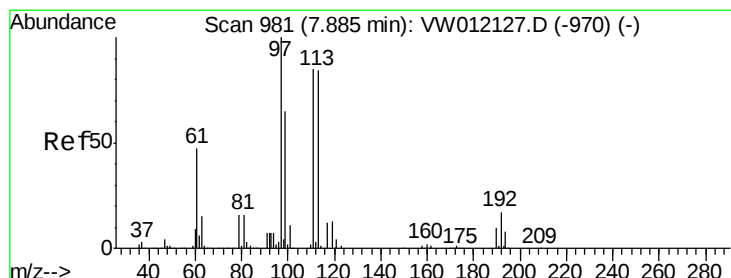
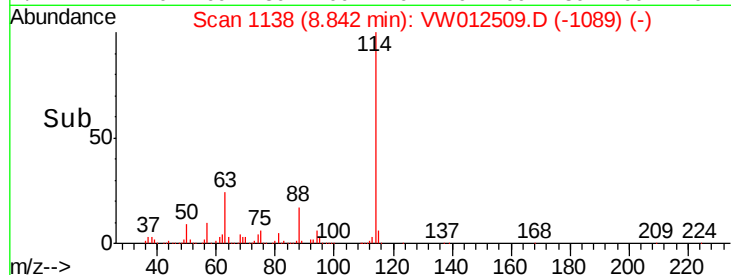
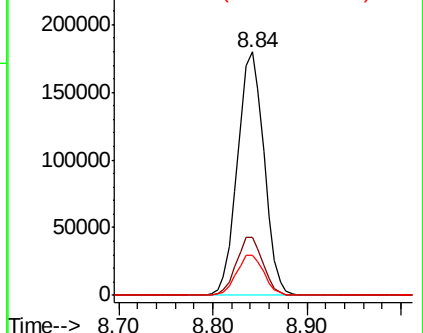
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012509.D
 Acq: 02 Sep 2019 19:37

Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-T4-(1.9)

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	48.6
88	16.6	0.0	32.2

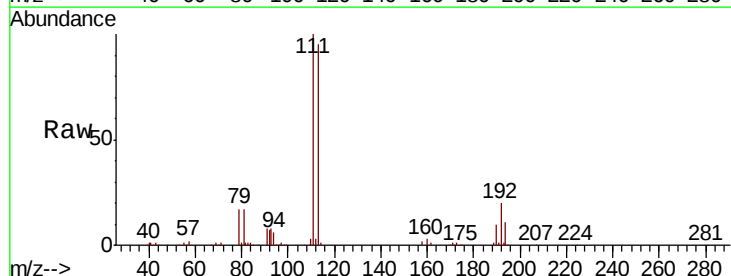


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

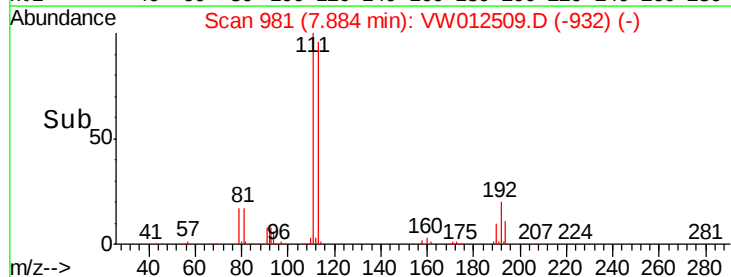
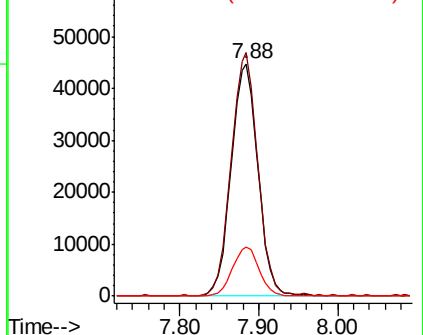


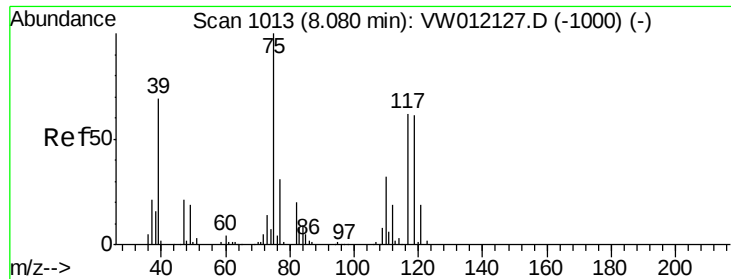
#35
 Dibromofluoromethane
 Concen: 49.874 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012509.D
 Acq: 02 Sep 2019 19:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.7	124.1
192	20.8	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

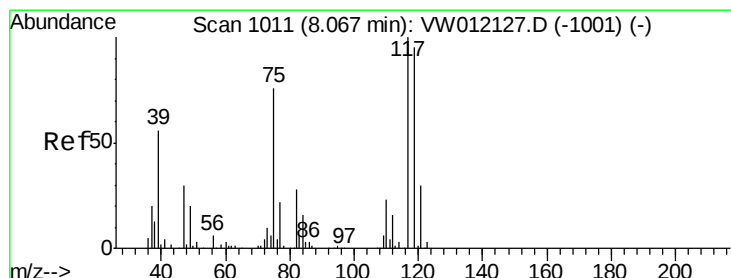
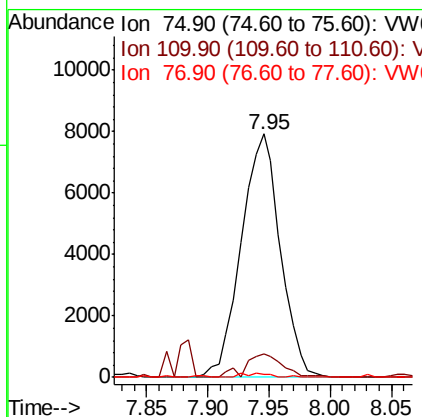
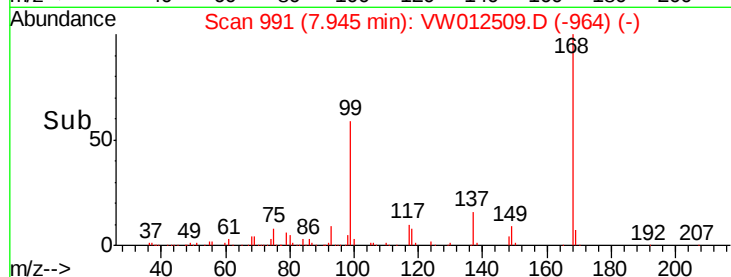
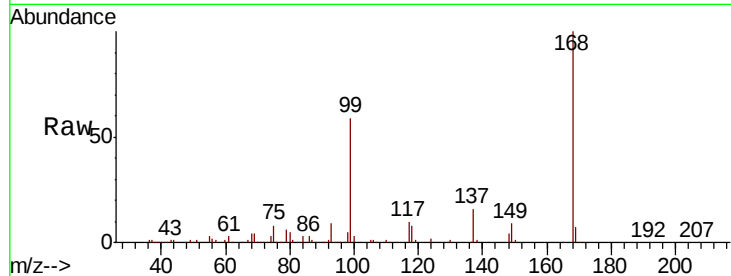




#36
 1,1-Dichloropropene
 Concen: 4.780 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012509.D
 Acq: 02 Sep 2019 19:37

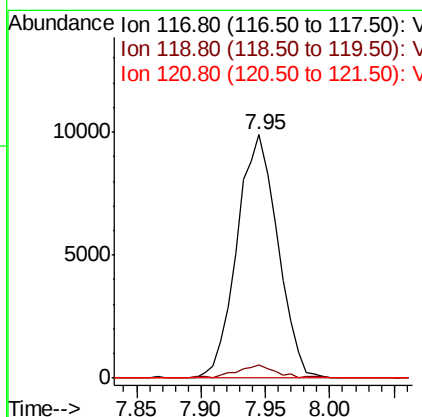
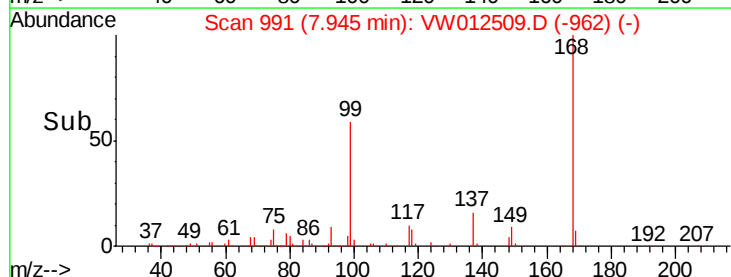
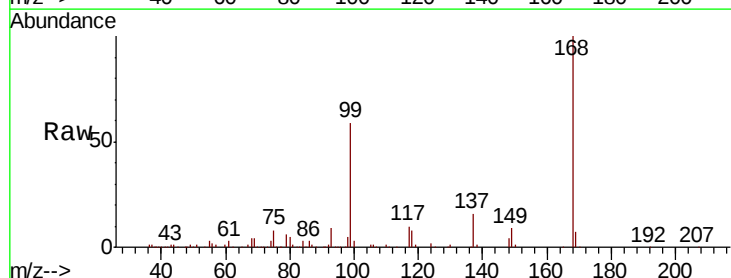
Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-T4-(1.9)

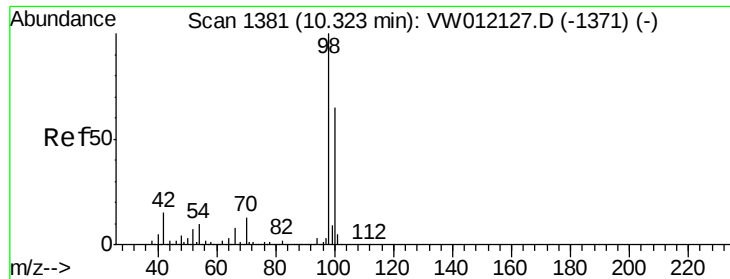
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	15.6	46.8#
77	1.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.835 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012509.D
 Acq: 02 Sep 2019 19:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.2	114.2#
121	0.0	23.8	35.8#





#50

Toluene-d8

Concen: 48.821 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

Instrument :

MSVOA_W

ClientSampleId :

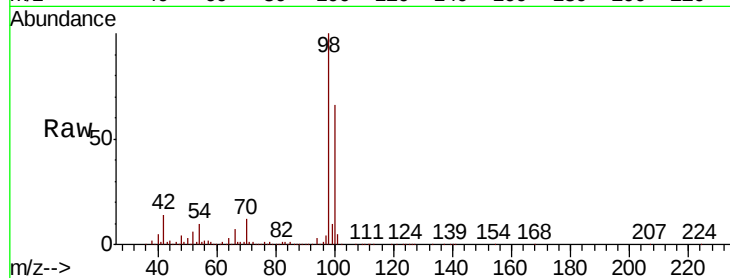
T9-12-13-T4-(1.9)

Tgt Ion: 98 Resp: 419703

Ion Ratio Lower Upper

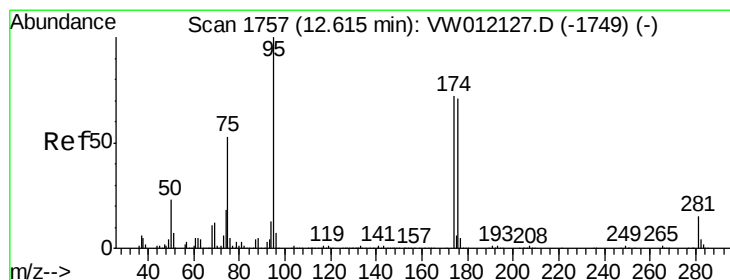
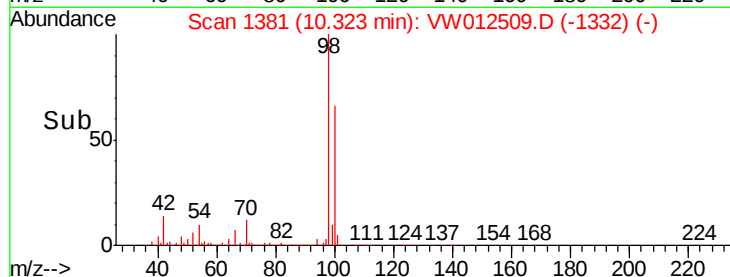
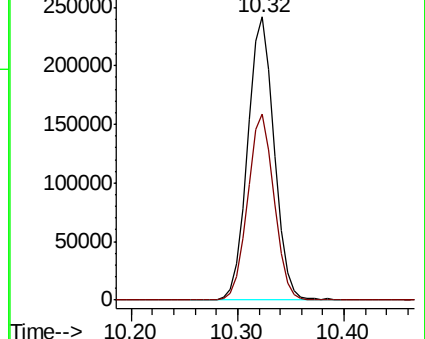
98 100

100 65.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 40.492 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

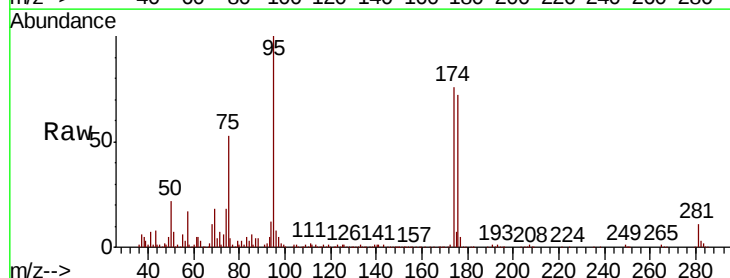
Tgt Ion: 95 Resp: 122705

Ion Ratio Lower Upper

95 100

174 77.7 0.0 150.8

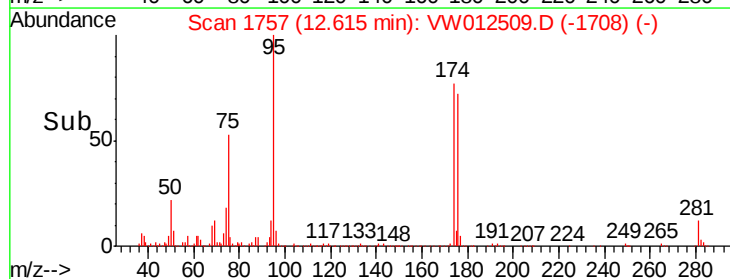
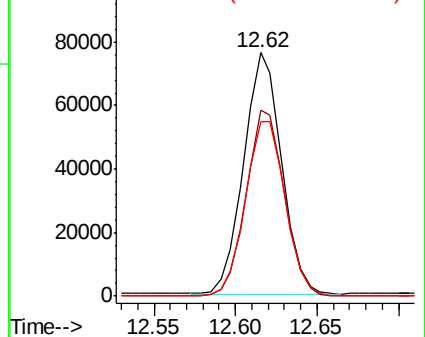
176 75.7 0.0 148.6

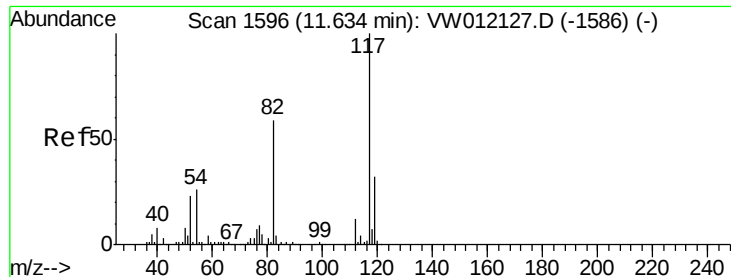


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

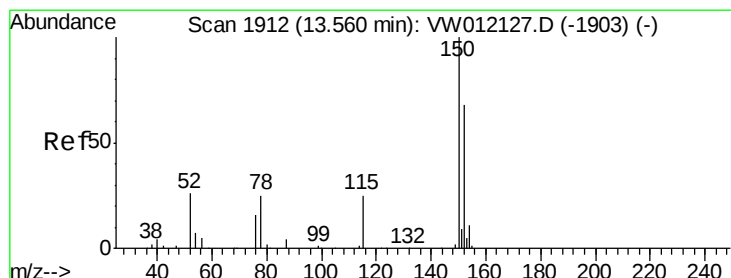
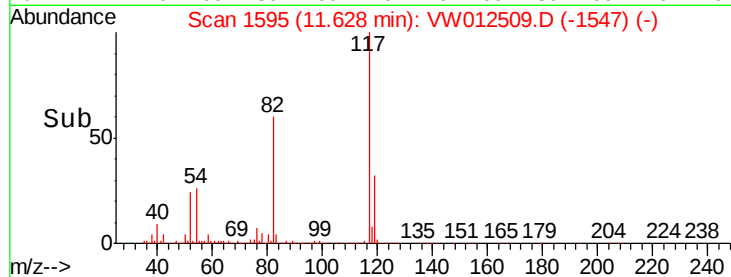
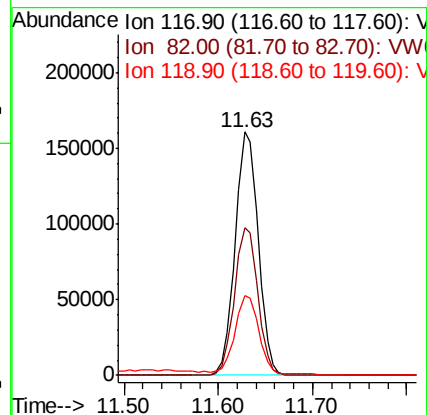
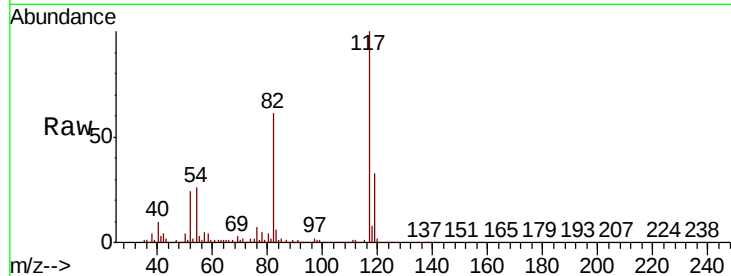




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012509.D
Acq: 02 Sep 2019 19:37

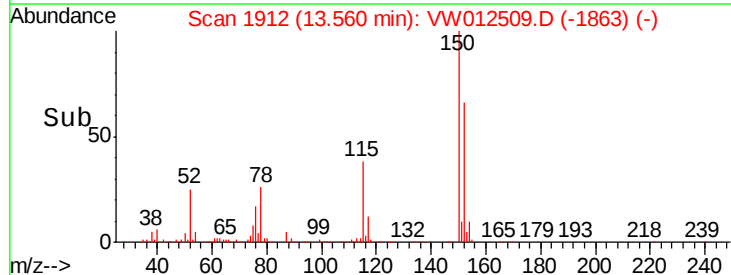
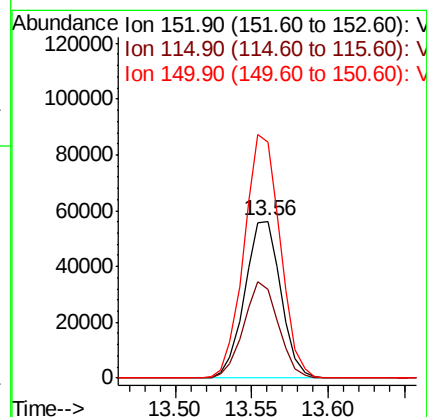
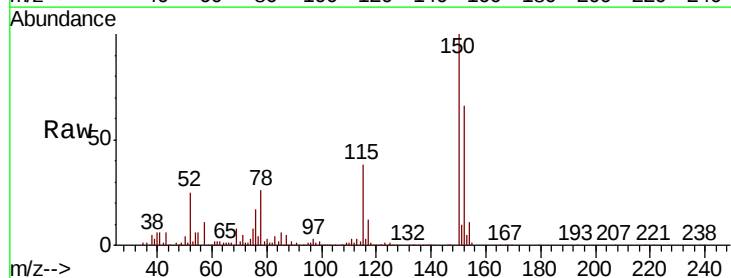
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-T4-(1.9)

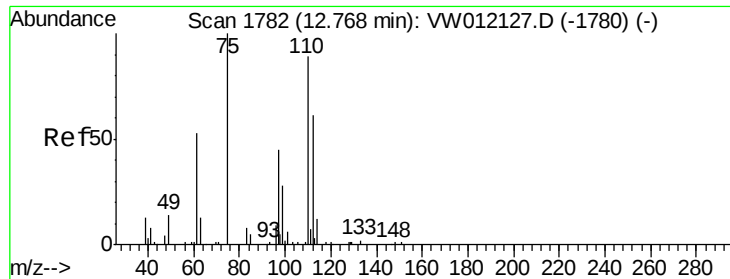
Tgt Ion:117 Resp: 273460
Ion Ratio Lower Upper
117 100
82 60.5 47.4 71.2
119 32.3 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012509.D
Acq: 02 Sep 2019 19:37

Tgt Ion:152 Resp: 91614
Ion Ratio Lower Upper
152 100
115 59.9 30.1 90.3
150 156.1 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 72.889 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

Instrument :

MSVOA_W

ClientSampleId :

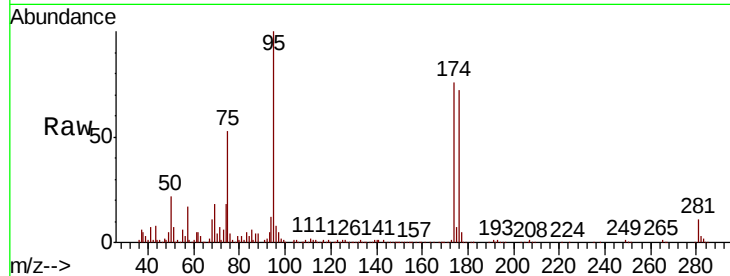
T9-12-13-T4-(1.9)

Tgt Ion: 75 Resp: 65036

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

40000

30000

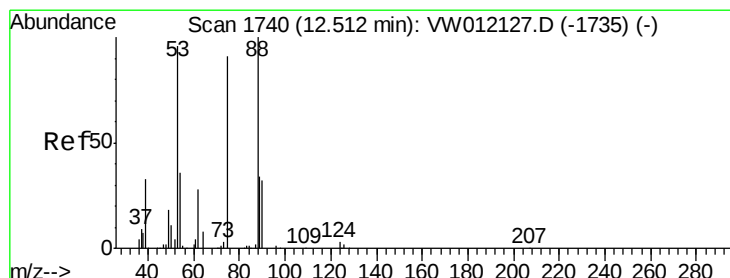
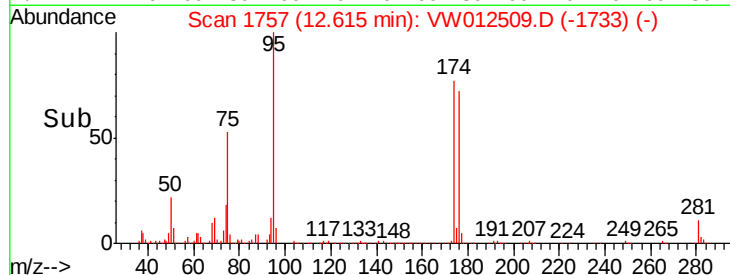
20000

10000

0

Time-->

12.55 12.60 12.65



#81

trans-1,4-Dichloro-2-butene

Concen: 159.813 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

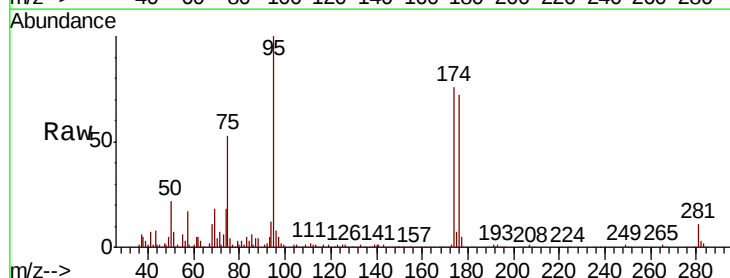
Tgt Ion: 75 Resp: 65036

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

89 0.0 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

50000

40000

30000

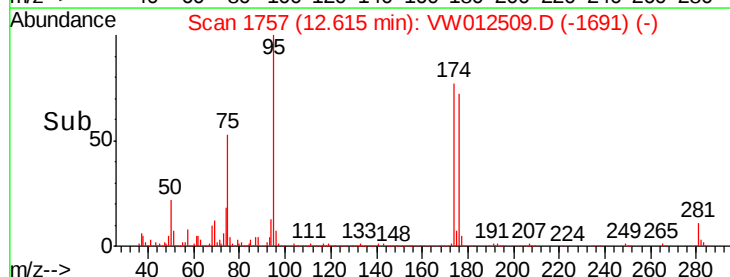
20000

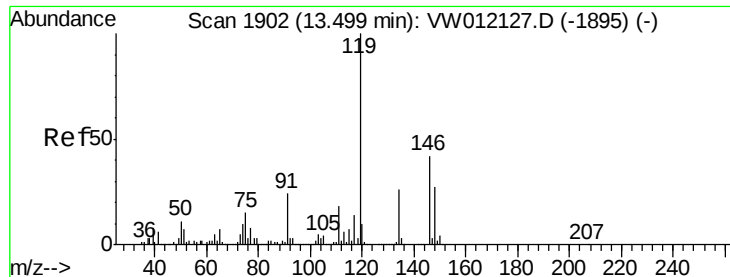
10000

0

Time-->

12.55 12.60 12.65





#86

p-Isopropyltoluene

Concen: 2.432 ug/l

RT: 13.65 min Scan# 1926

Delta R.T. 0.15 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-T4-(1.9)

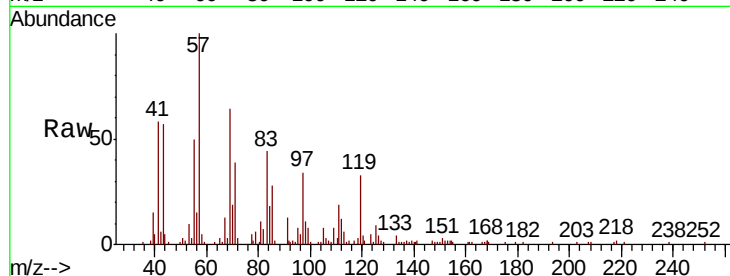
Tgt Ion:119 Resp: 15118

Ion Ratio Lower Upper

119 100

134 0.9 12.8 38.3#

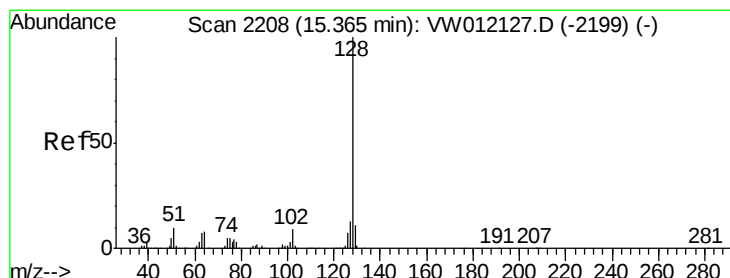
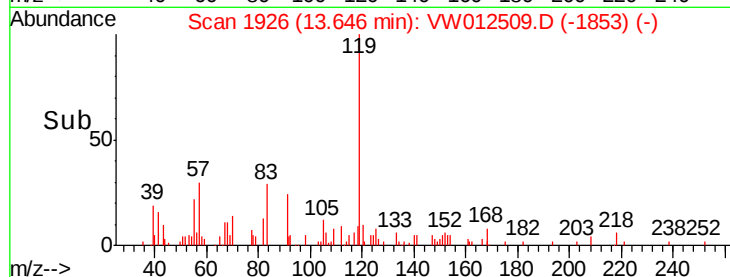
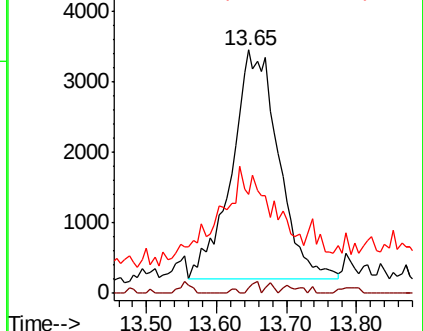
91 0.0 12.3 36.9#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#95

Naphthalene

Concen: 4.596 ug/l

RT: 15.36 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VW012509.D

Acq: 02 Sep 2019 19:37

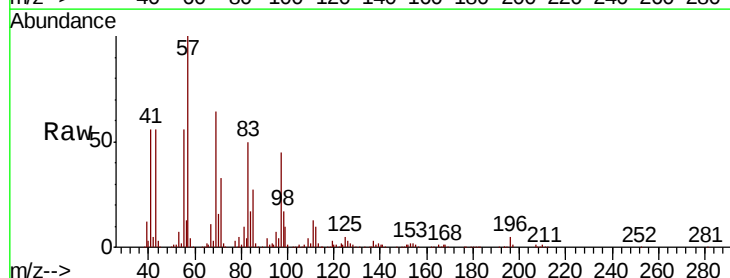
Tgt Ion:128 Resp: 1041

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 6.0 8.7 13.1#



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

