

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012450.D
 Acq On : 01 Sep 2019 16:05
 Operator : SY/VA
 Sample : K4516-01RE
 Misc : 4.76G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-B2-(0)RE

Quant Time: Sep 02 07:19:16 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	17060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	25268	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	20776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	4808	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	12107	59.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	119.40%	
35) Dibromofluoromethane	7.88	113	8468	56.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.28%	
50) Toluene-d8	10.32	98	29989	49.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.08%	
62) 4-Bromofluorobenzene	12.62	95	7792	36.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	72.30%	

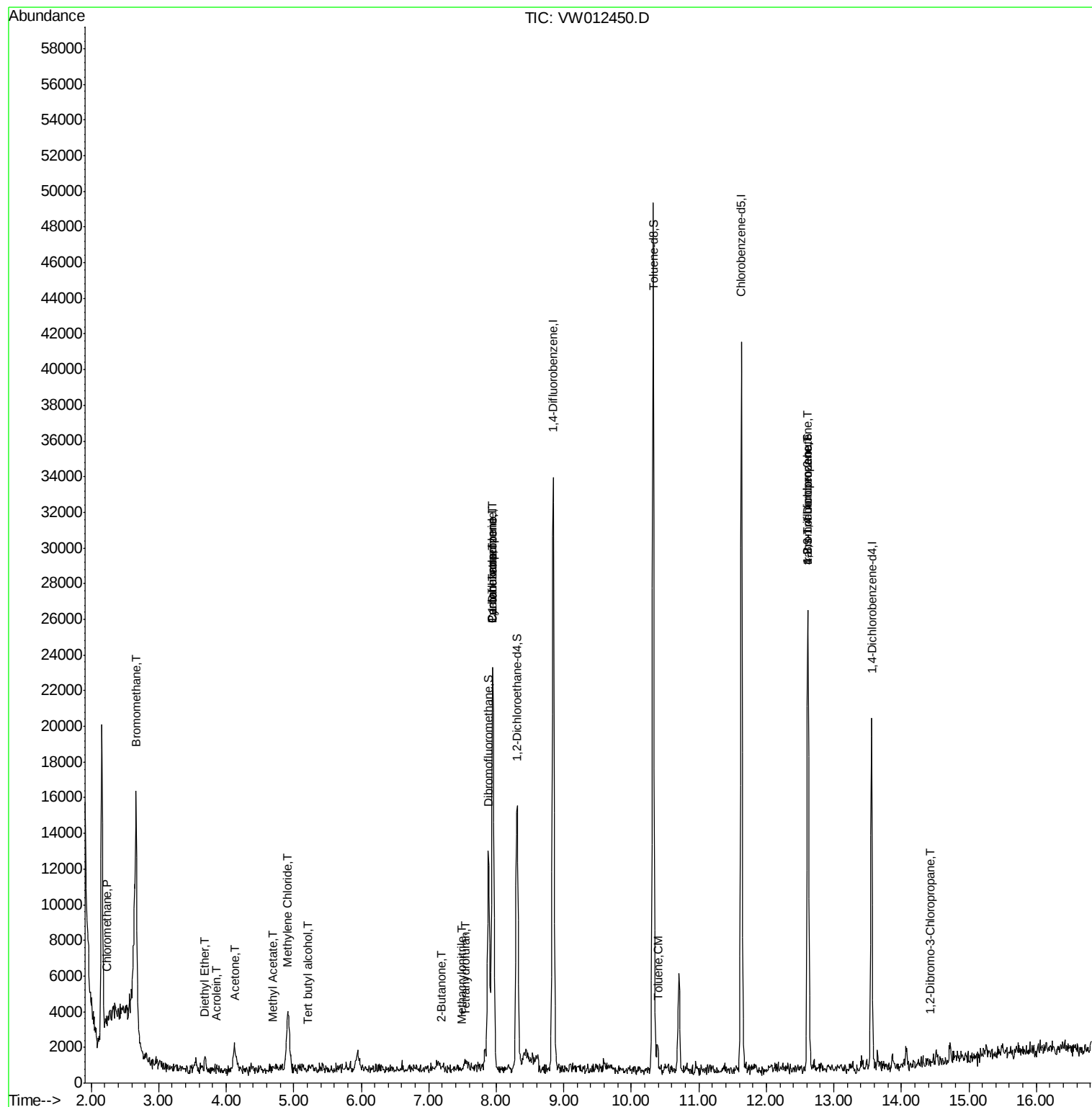
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	252	1.548	ug/l #	19
5) Bromomethane	2.66	94	101	1.001	ug/l #	4
8) Diethyl Ether	3.68	74	210	2.212	ug/l	57
11) Tert butyl alcohol	5.20	59	20	1.639	ug/l #	71
13) Acrolein	3.87	56	21	1.828	ug/l #	63
16) Acetone	4.14	43	2584	49.845	ug/l	100
18) Methyl Acetate	4.68	43	217	1.690	ug/l #	57
20) Methylene Chloride	4.91	84	2059	10.506	ug/l	84
25) 2-Butanone	7.18	43	128	1.817	ug/l #	56
29) Tetrahydrofuran	7.54	42	334	7.903	ug/l #	66
31) Cyclohexane	7.95	56	632	1.730	ug/l #	31
36) 1,1-Dichloropropene	7.95	75	1431	5.480	ug/l #	46
38) Carbon Tetrachloride	7.95	117	1823	8.066	ug/l #	21
41) Methacrylonitrile	7.49	41	90	1.070	ug/l #	39
52) Toluene	10.40	92	658	1.536	ug/l #	64
76) 1,2,3-Trichloropropane	12.62	75	4372	93.366	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	4372	204.708	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.41	75	42	3.772	ug/l #	5

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

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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: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

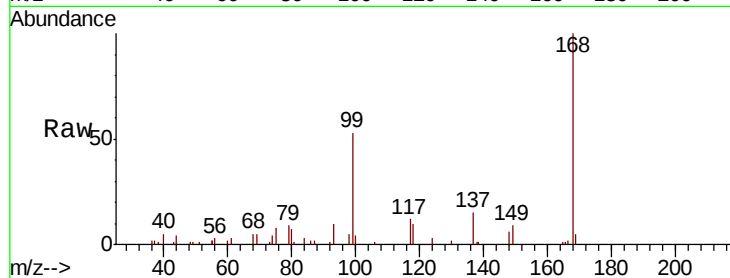
T1-S-B2-(0)RE

Tgt Ion:168 Resp: 17060

Ion Ratio Lower Upper

168 100

99 53.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

8000

6000

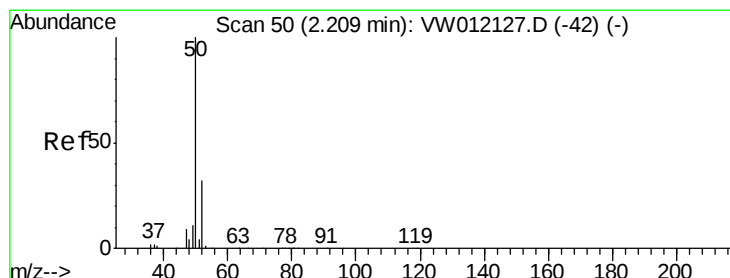
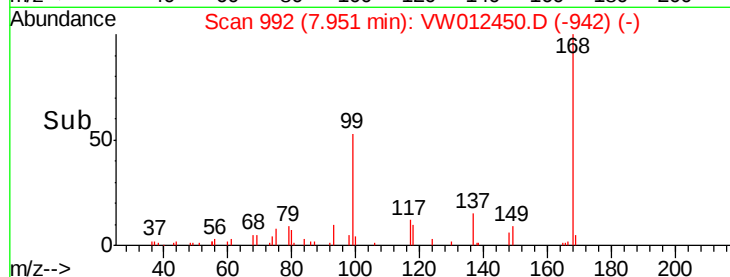
4000

2000

0

Time-->

7.85 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 1.548 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW012450.D

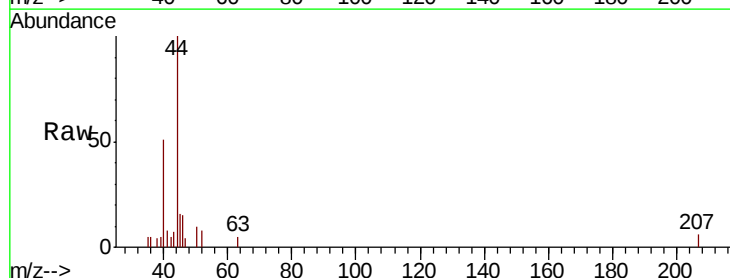
Acq: 01 Sep 2019 16:05

Tgt Ion: 50 Resp: 252

Ion Ratio Lower Upper

50 100

52 76.9 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.22

150

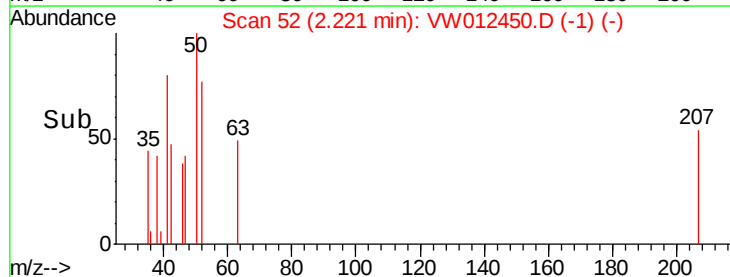
100

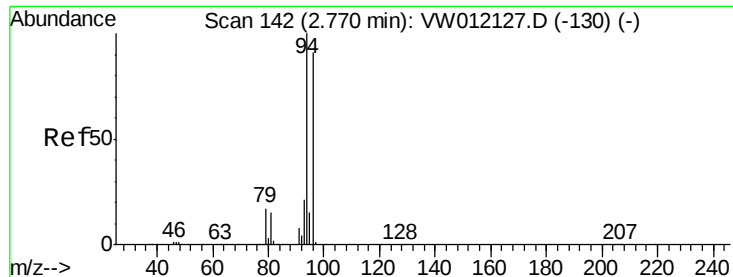
50

0

Time-->

2.20 2.25





#5

Bromomethane

Concen: 1.001 ug/l

RT: 2.66 min Scan# 124

Delta R.T. -0.11 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

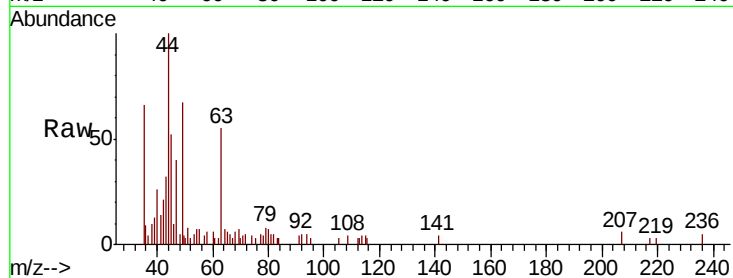
T1-S-B2-(0)RE

Tgt Ion: 94 Resp: 101

Ion Ratio Lower Upper

94 100

96 0.0 72.9 109.3#



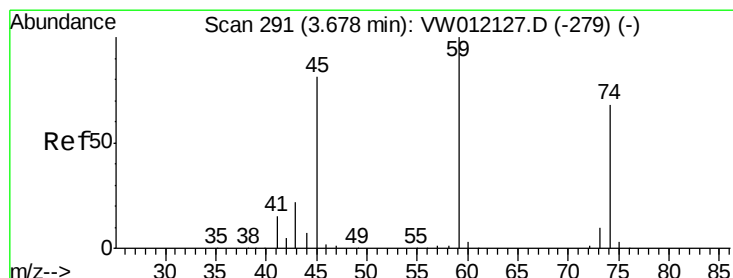
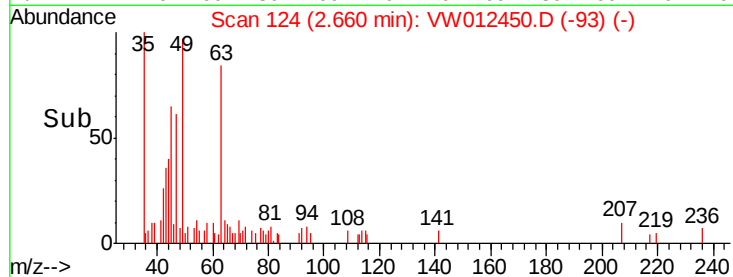
Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.66

2.64 2.66 2.68

Time-->



#8

Diethyl Ether

Concen: 2.212 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012450.D

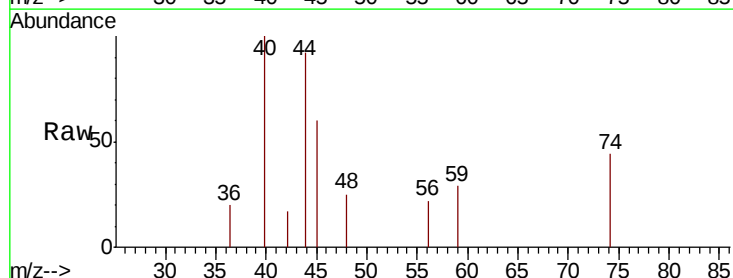
Acq: 01 Sep 2019 16:05

Tgt Ion: 74 Resp: 210

Ion Ratio Lower Upper

74 100

45 165.7 59.2 177.6



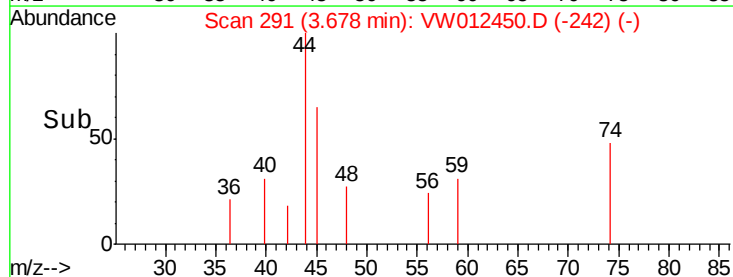
Abundance Ion 74.00 (73.70 to 74.70): VW

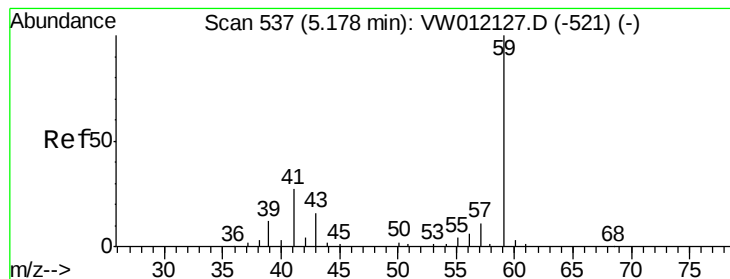
Ion 45.00 (44.70 to 45.70): VW

3.68

3.65 3.68 3.70

Time-->



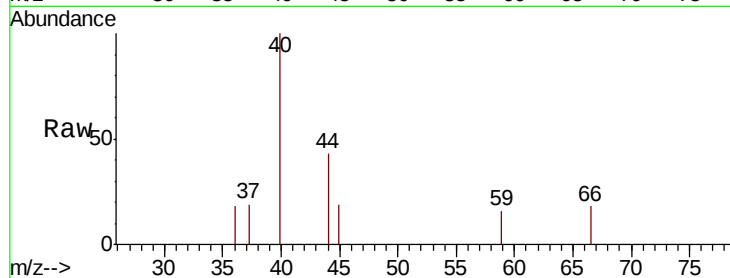


#11

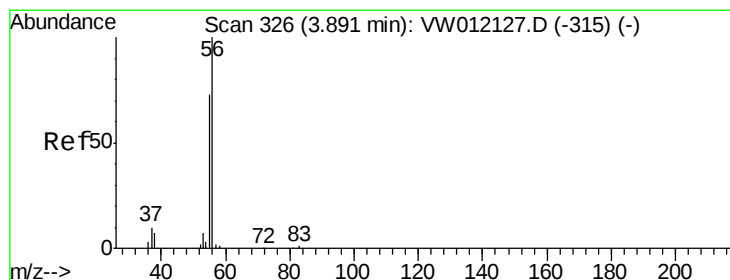
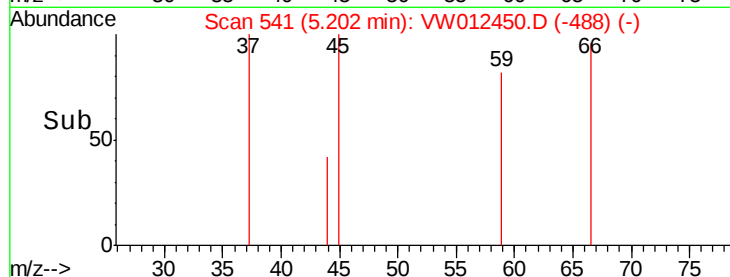
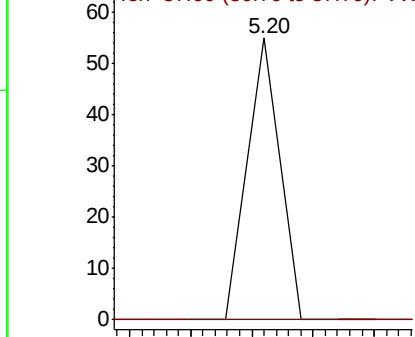
Tert butyl alcohol
 Concen: 1.639 ug/l
 RT: 5.20 min Scan# 541
 Delta R.T. 0.02 min
 Lab File: VW012450.D
 Acq: 01 Sep 2019 16:05

Instrument :
 MSVOA_W
 ClientSampled :
 T1-S-B2-(0)RE

Tgt Ion: 59 Resp: 20
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#



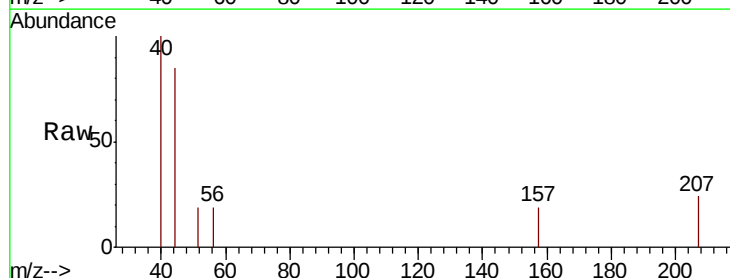
Abundance Ion 59.00 (58.70 to 59.70): VW
 Ion 57.00 (56.70 to 57.70): VW



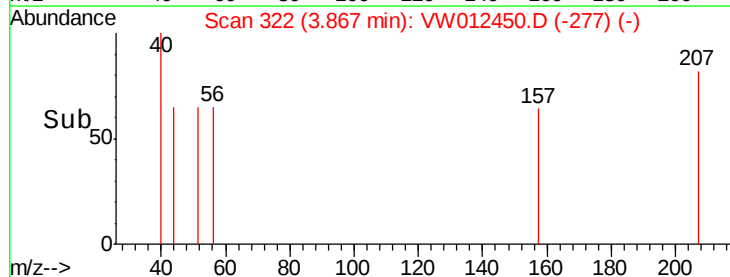
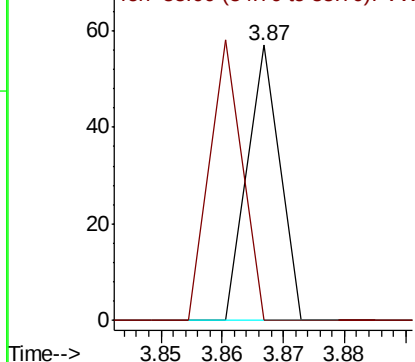
#13

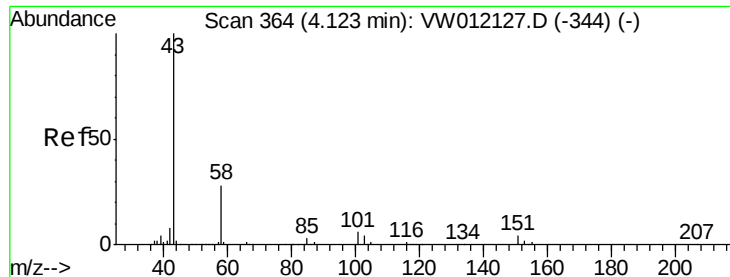
Acrolein
 Concen: 1.828 ug/l
 RT: 3.87 min Scan# 322
 Delta R.T. -0.02 min
 Lab File: VW012450.D
 Acq: 01 Sep 2019 16:05

Tgt Ion: 56 Resp: 21
 Ion Ratio Lower Upper
 56 100
 55 100.0 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: 49.845 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

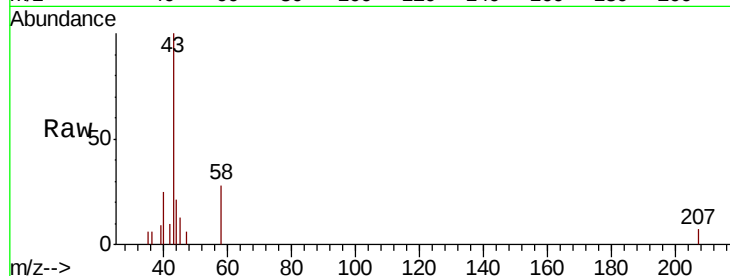
T1-S-B2-(0)RE

Tgt Ion: 43 Resp: 2584

Ion Ratio Lower Upper

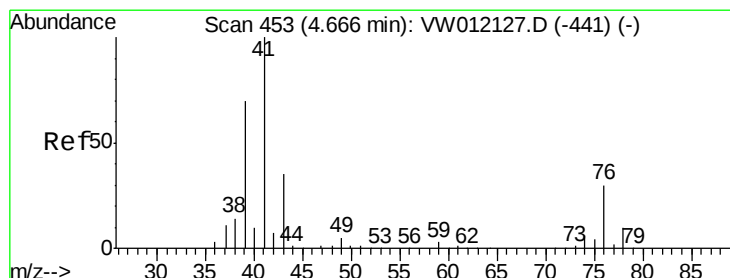
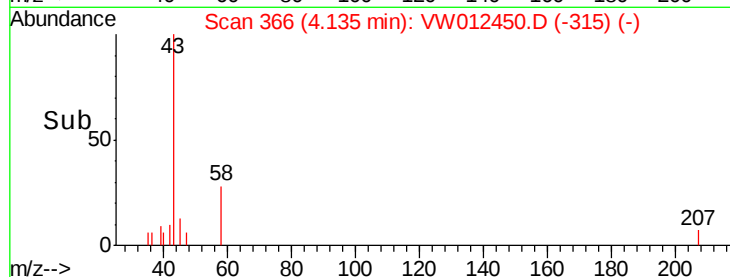
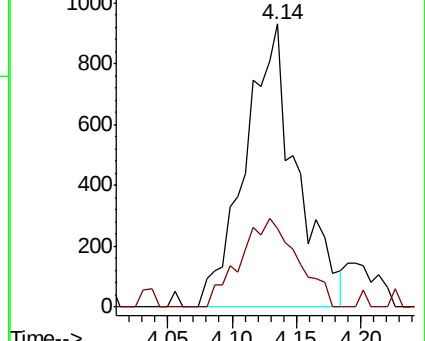
43 100

58 27.8 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#18

Methyl Acetate

Concen: 1.690 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.02 min

Lab File: VW012450.D

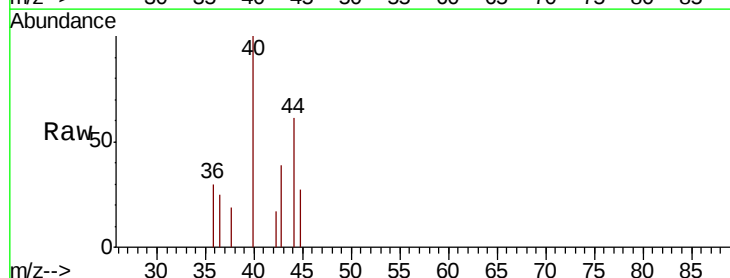
Acq: 01 Sep 2019 16:05

Tgt Ion: 43 Resp: 217

Ion Ratio Lower Upper

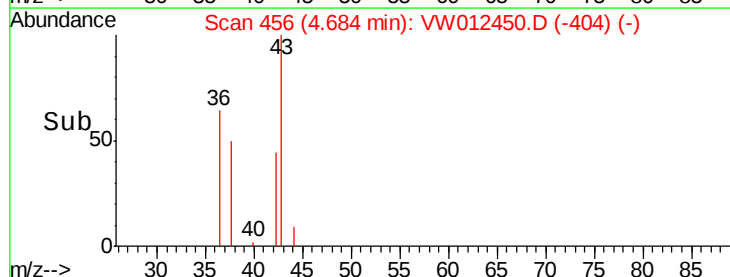
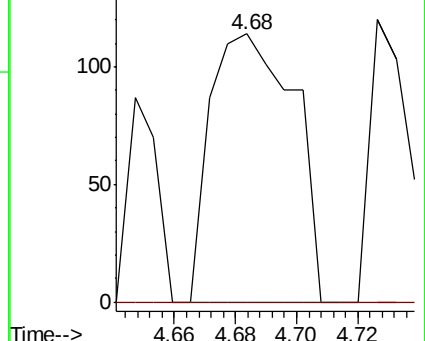
43 100

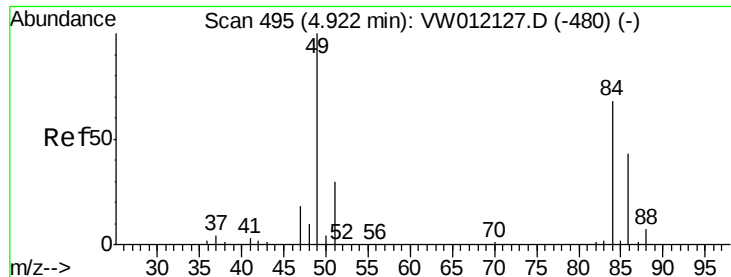
74 0.0 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

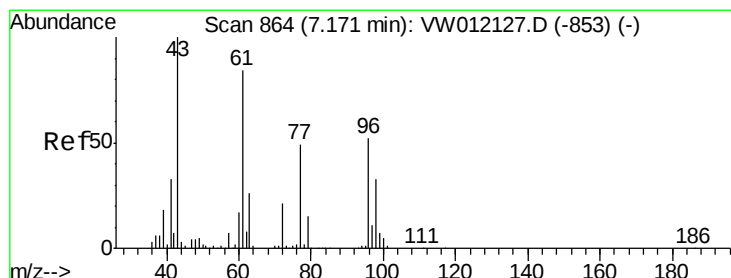
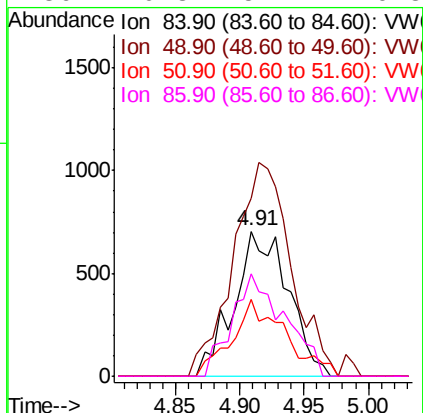
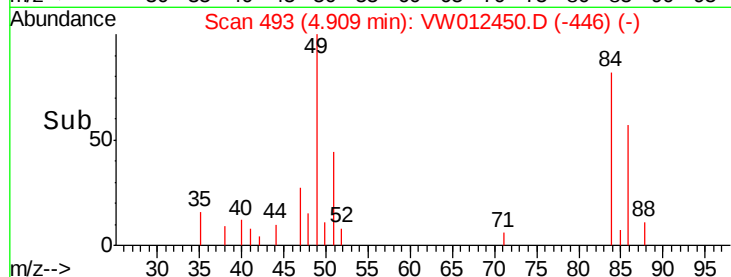
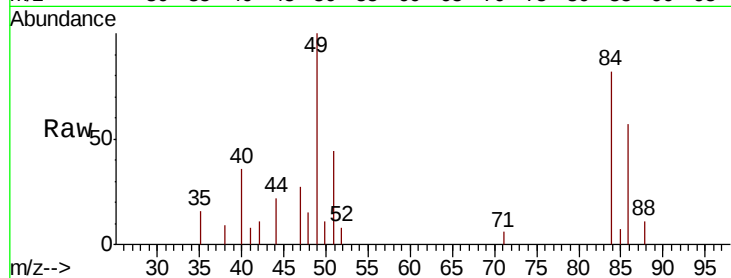




#20
Methylene Chloride
Concen: 10.506 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

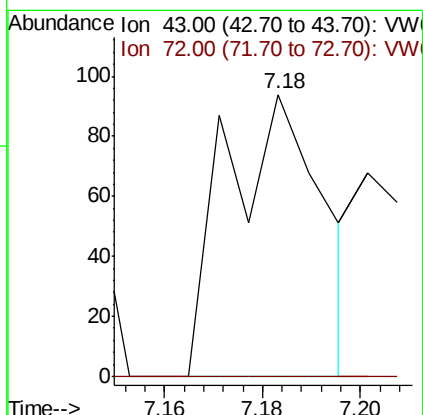
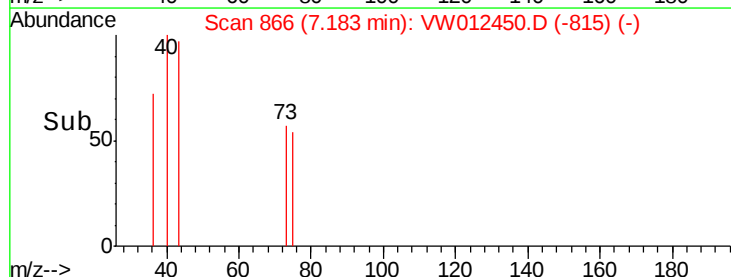
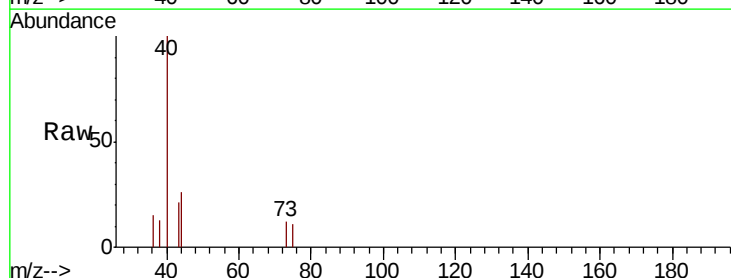
Instrument :
MSVOA_W
ClientSampleId :
T1-S-B2-(0)RE

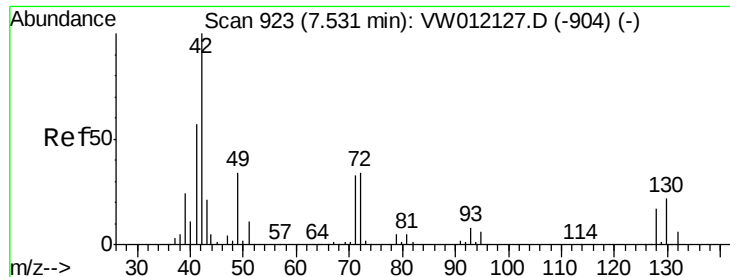
Tgt Ion: 84 Resp: 2059
Ion Ratio Lower Upper
84 100
49 122.4 117.8 176.8
51 53.3 35.6 53.4
86 70.3 51.2 76.8



#25
2-Butanone
Concen: 1.817 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

Tgt Ion: 43 Resp: 128
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#





#29

Tetrahydrofuran

Concen: 7.903 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

T1-S-B2-(0)RE

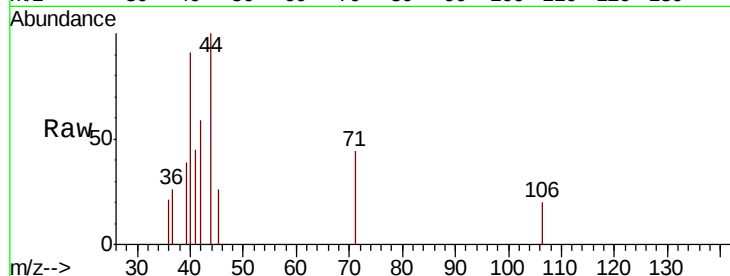
Tgt Ion: 42 Resp: 334

Ion Ratio Lower Upper

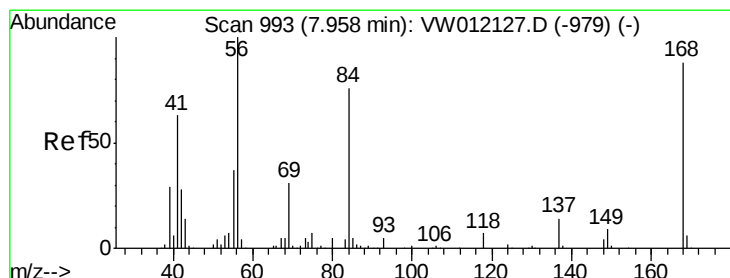
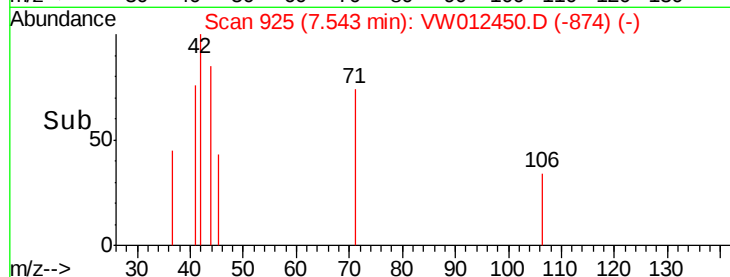
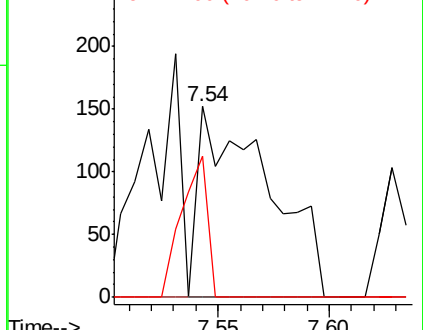
42 100

72 0.0 27.3 40.9#

71 27.5 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.730 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

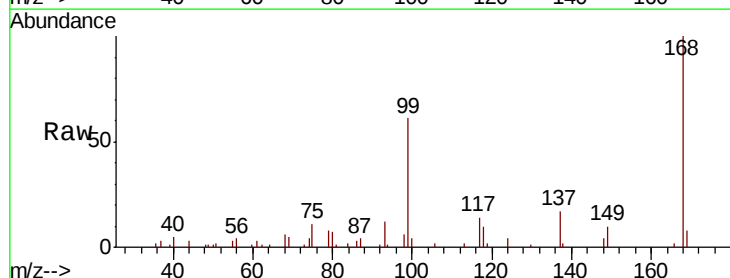
Tgt Ion: 56 Resp: 632

Ion Ratio Lower Upper

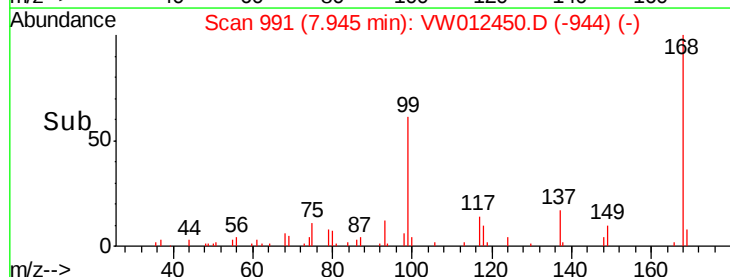
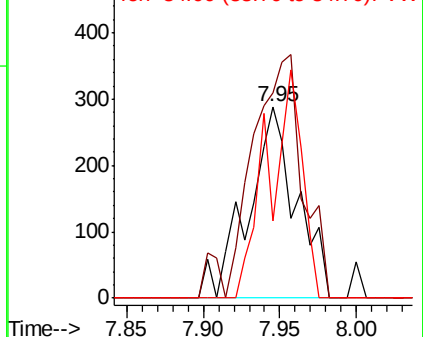
56 100

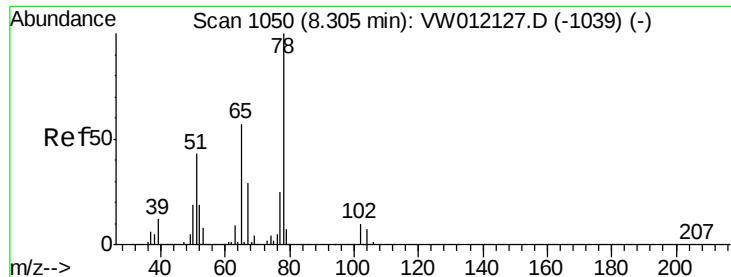
69 106.9 24.9 37.3#

84 40.5 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: 59.699 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

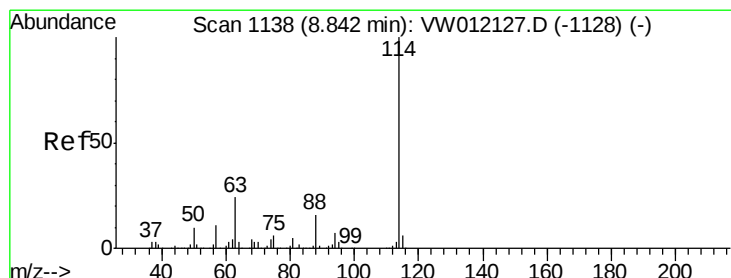
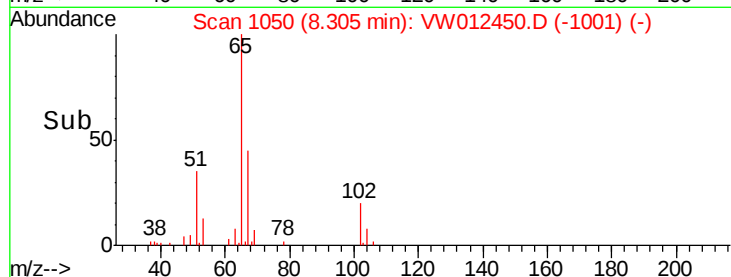
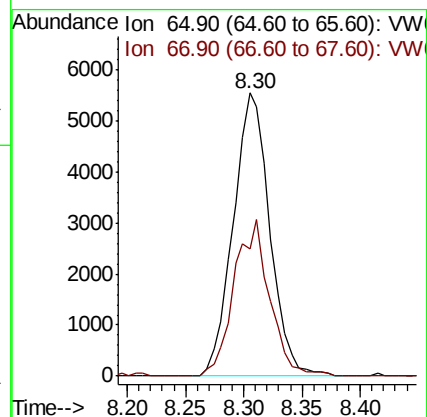
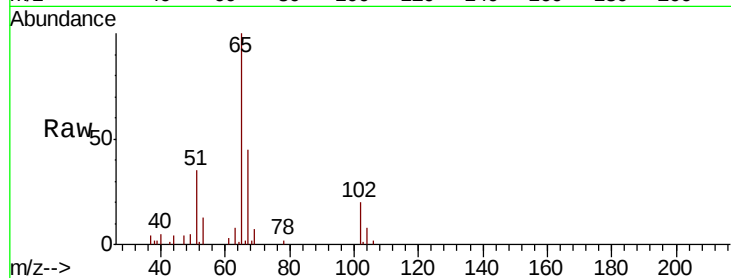
T1-S-B2-(0)RE

Tgt Ion: 65 Resp: 12107

Ion Ratio Lower Upper

65 100

67 53.9 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

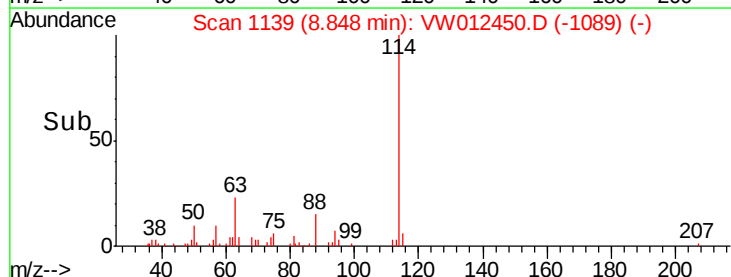
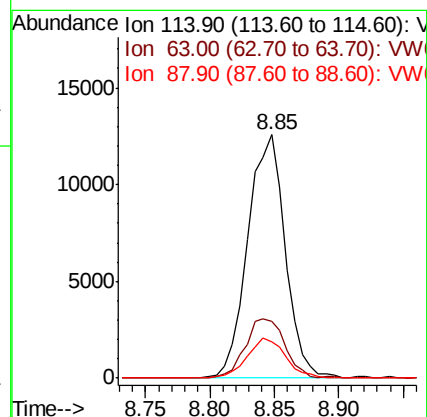
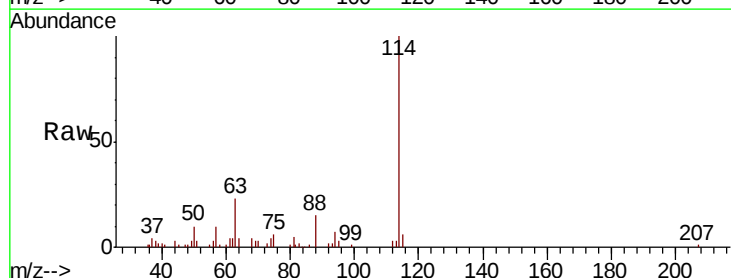
Tgt Ion: 114 Resp: 25268

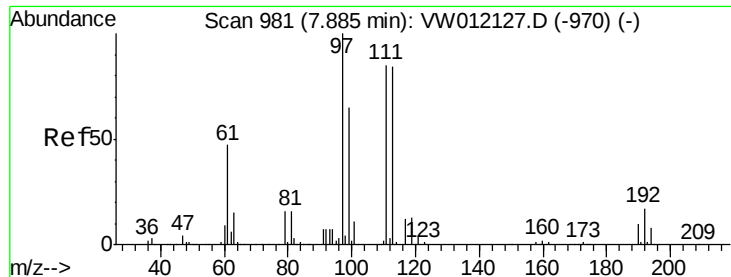
Ion Ratio Lower Upper

114 100

63 23.4 0.0 48.6

88 15.0 0.0 32.2

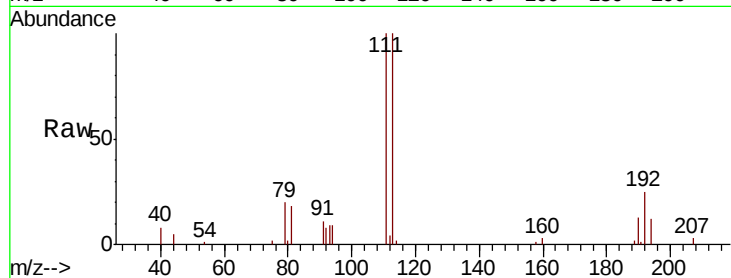




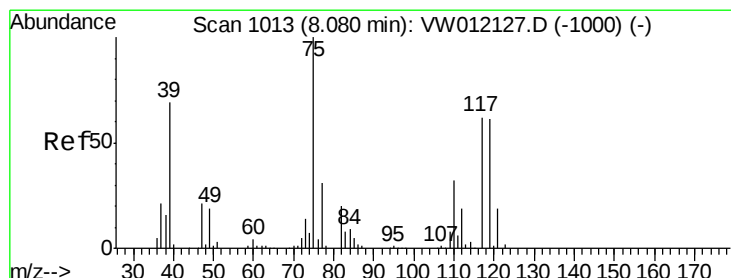
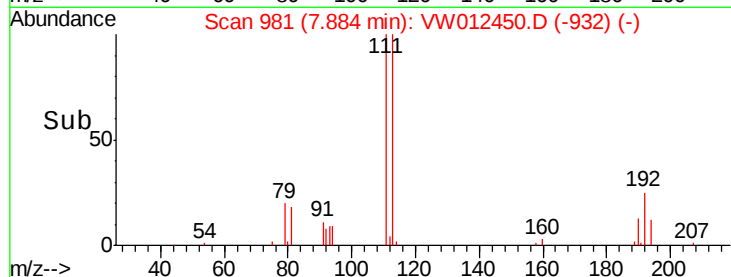
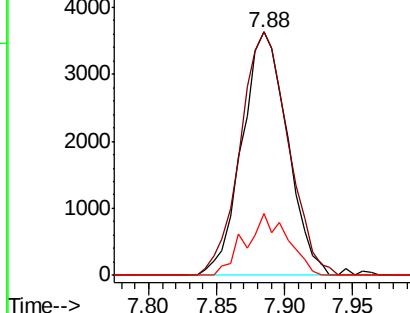
#35
 Dibromofluoromethane
 Concen: 56.144 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012450.D
 Acq: 01 Sep 2019 16:05

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-B2-(0)RE

Tgt Ion: 113 Resp: 8468
 Ion Ratio Lower Upper
 113 100
 111 105.4 82.7 124.1
 192 23.8 16.2 24.2

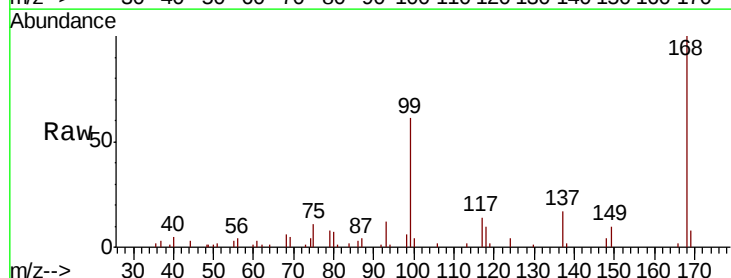


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

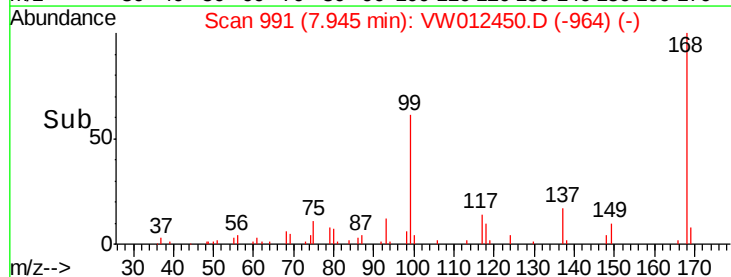
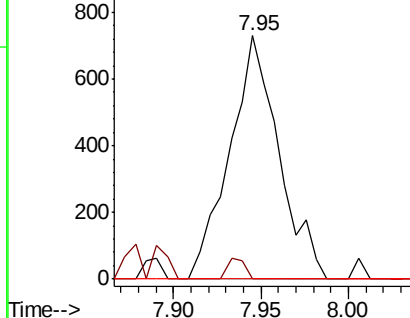


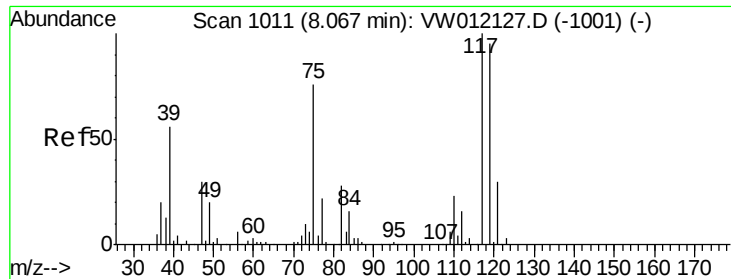
#36
 1,1-Dichloropropene
 Concen: 5.480 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012450.D
 Acq: 01 Sep 2019 16:05

Tgt Ion: 75 Resp: 1431
 Ion Ratio Lower Upper
 75 100
 110 2.9 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

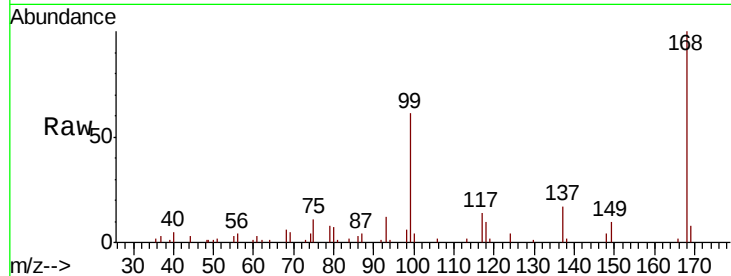




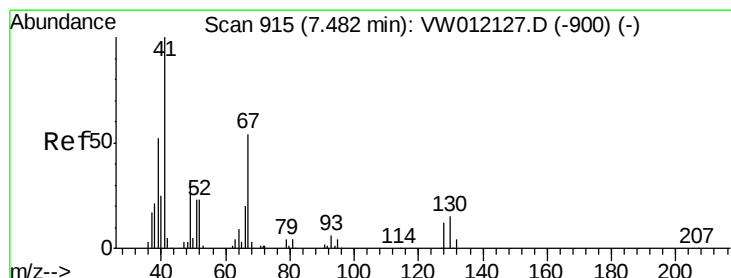
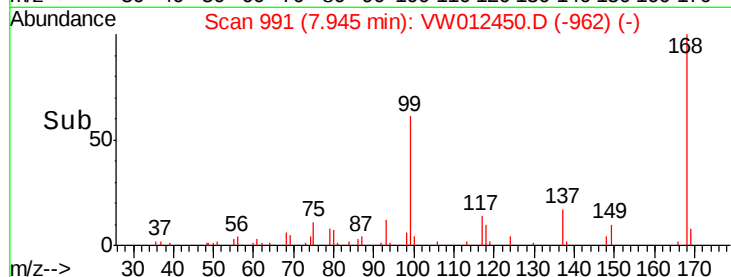
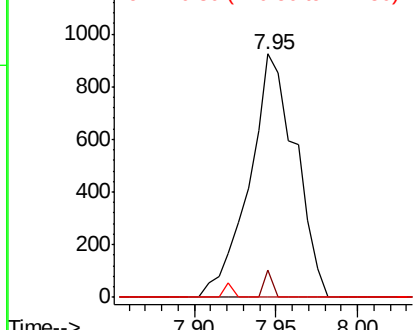
#38
Carbon Tetrachloride
Concen: 8.066 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

Instrument :
MSVOA_W
ClientSampleId :
T1-S-B2-(0)RE

Tgt Ion: 117 Resp: 1823
Ion Ratio Lower Upper
117 100
119 11.4 76.2 114.2#
121 0.0 23.8 35.8#

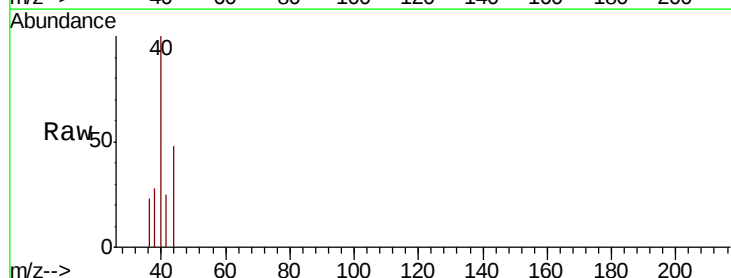


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

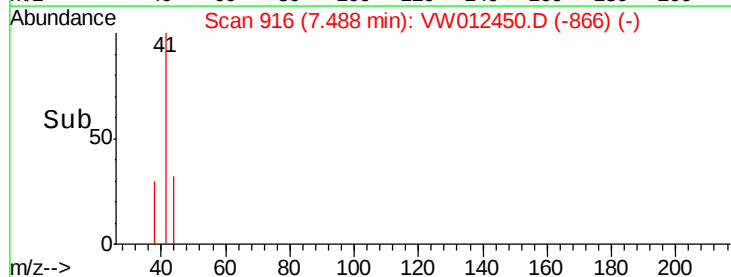
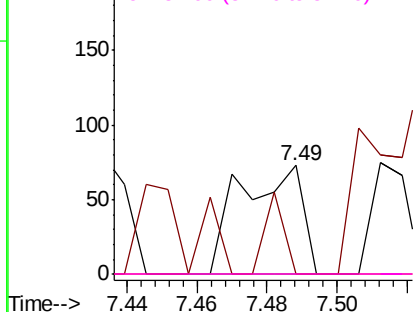


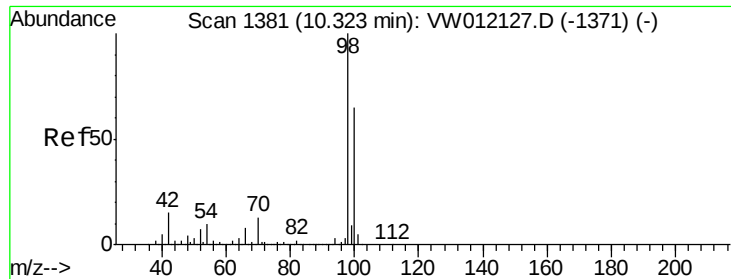
#41
Methacrylonitrile
Concen: 1.070 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

Tgt Ion: 41 Resp: 90
Ion Ratio Lower Upper
41 100
39 22.2 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

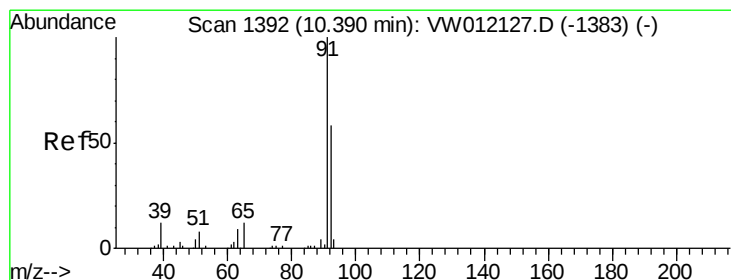
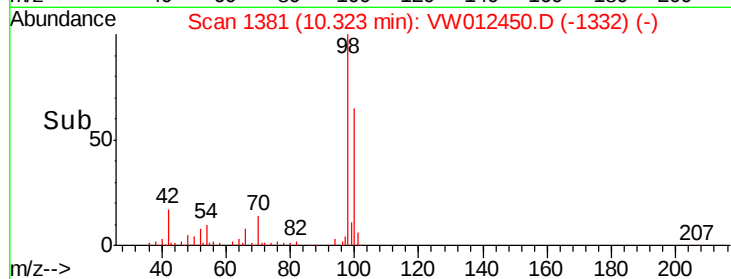
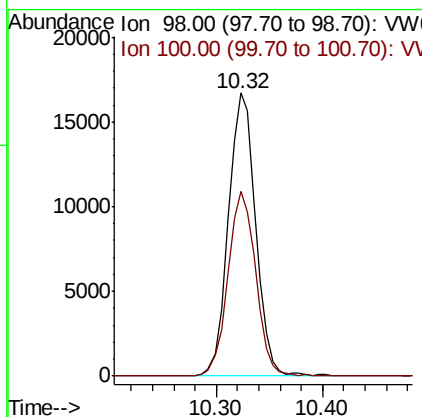
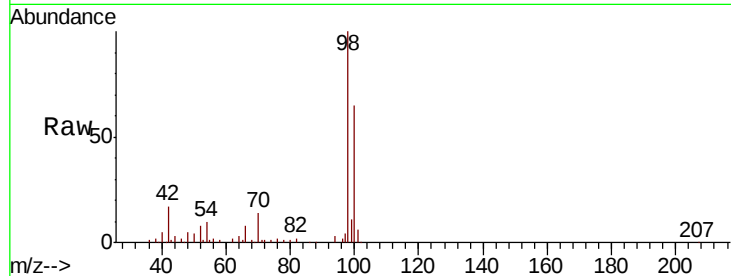




#50
Toluene-d8
Concen: 49.037 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

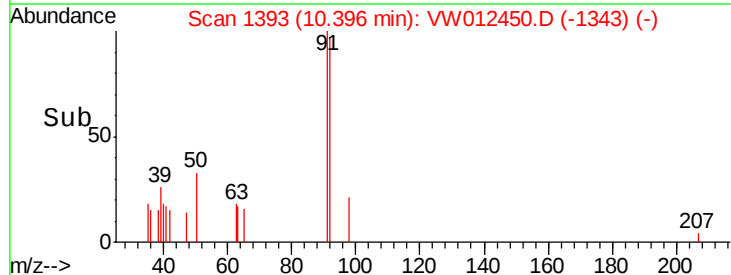
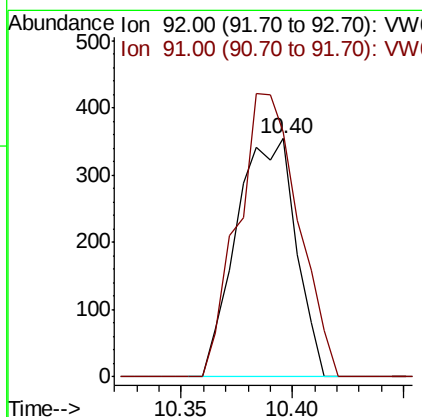
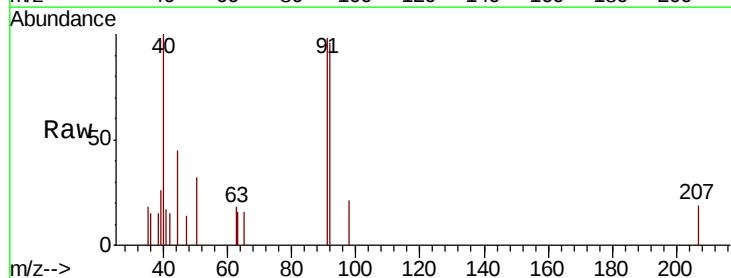
Instrument :
MSVOA_W
ClientSampleId :
T1-S-B2-(0)RE

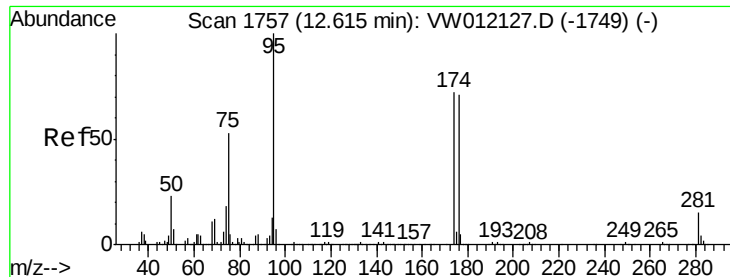
Tgt Ion: 98 Resp: 29989
Ion Ratio Lower Upper
98 100
100 66.5 52.4 78.6



#52
Toluene
Concen: 1.536 ug/l
RT: 10.40 min Scan# 1393
Delta R.T. 0.01 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

Tgt Ion: 92 Resp: 658
Ion Ratio Lower Upper
92 100
91 121.0 136.6 204.8#

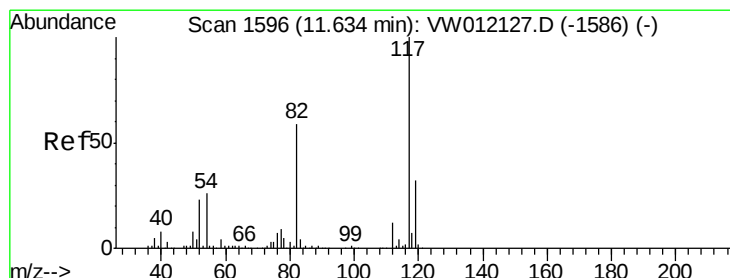
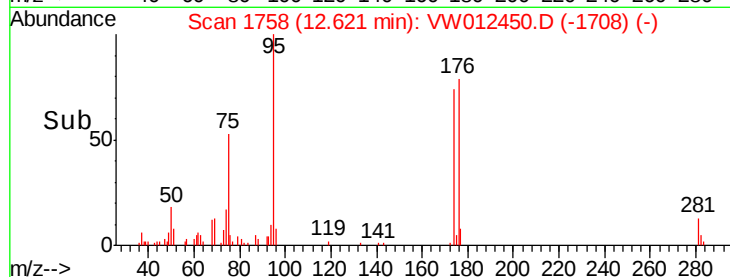
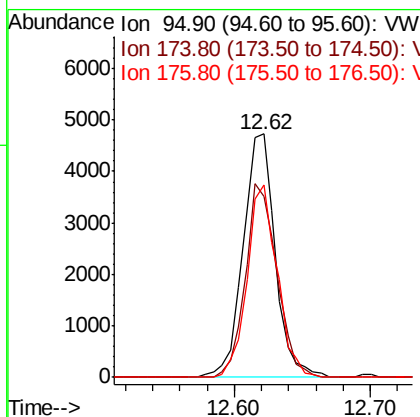
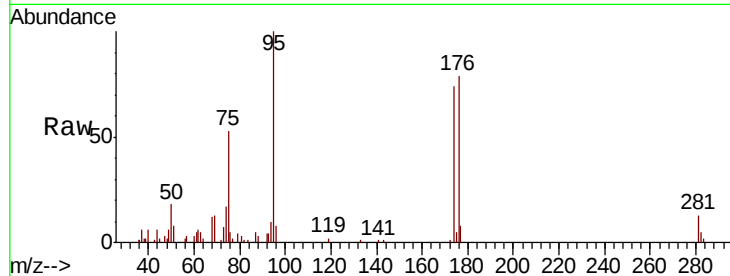




#62
4-Bromofluorobenzene
Concen: 36.146 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

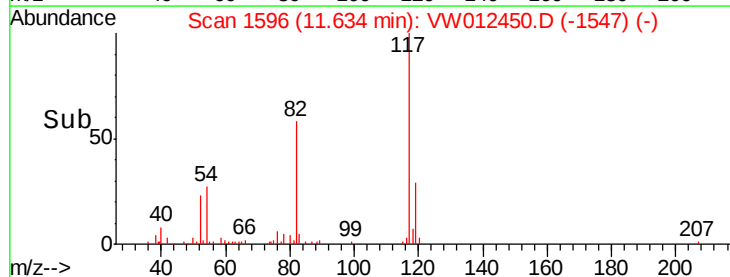
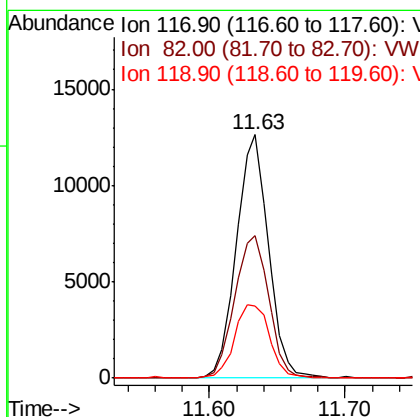
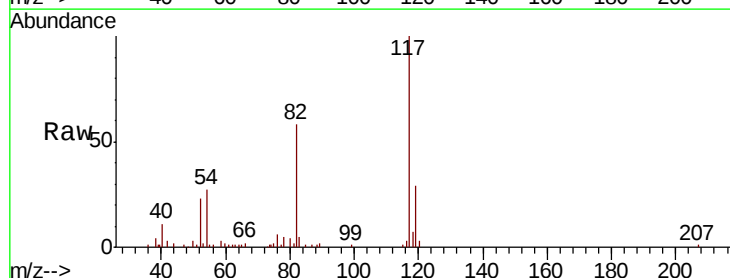
Instrument :
MSVOA_W
ClientSampleId :
T1-S-B2-(0)RE

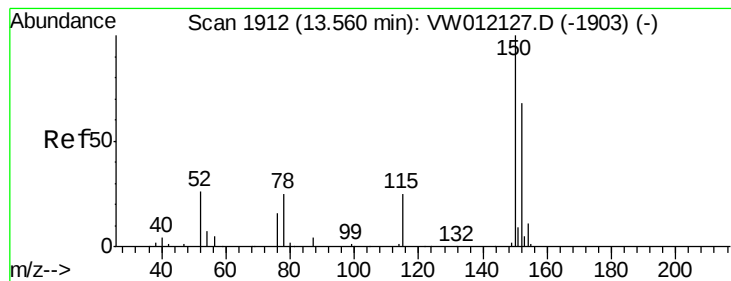
Tgt Ion: 95 Resp: 7792
Ion Ratio Lower Upper
95 100
174 77.9 0.0 150.8
176 74.5 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012450.D
Acq: 01 Sep 2019 16:05

Tgt Ion: 117 Resp: 20776
Ion Ratio Lower Upper
117 100
82 58.4 47.4 71.2
119 29.4 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: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

T1-S-B2-(0)RE

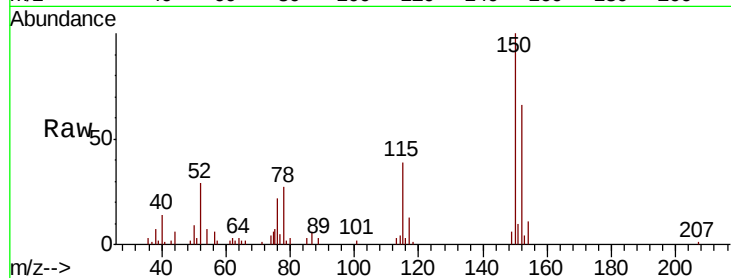
Tgt Ion:152 Resp: 4808

Ion Ratio Lower Upper

152 100

115 61.7 30.1 90.3

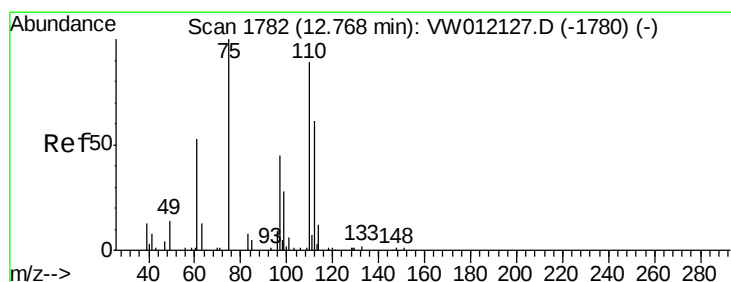
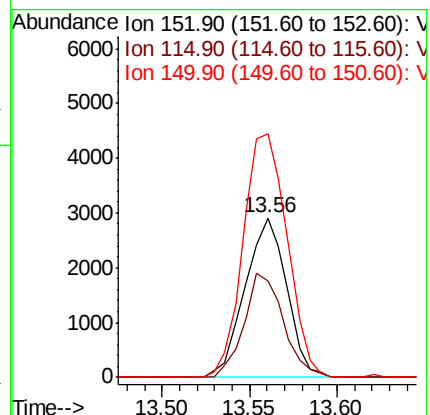
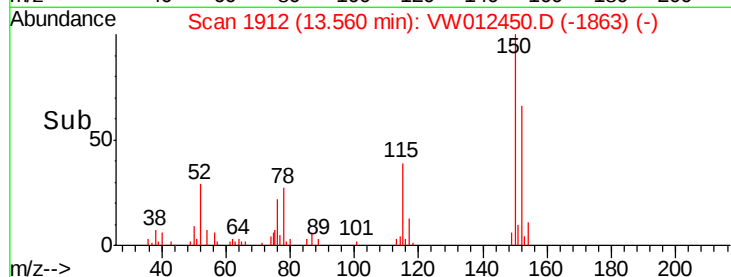
150 161.5 0.0 345.8



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: 93.366 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012450.D

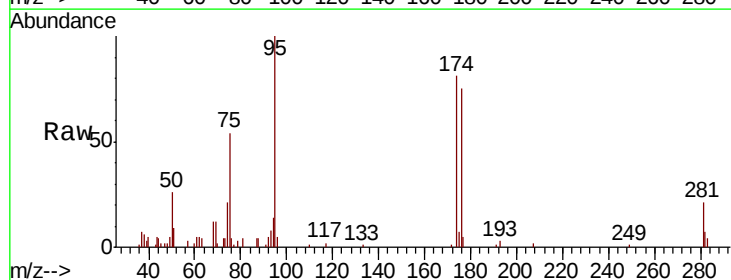
Acq: 01 Sep 2019 16:05

Tgt Ion: 75 Resp: 4372

Ion Ratio Lower Upper

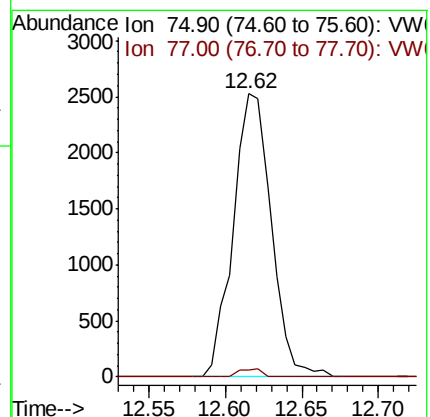
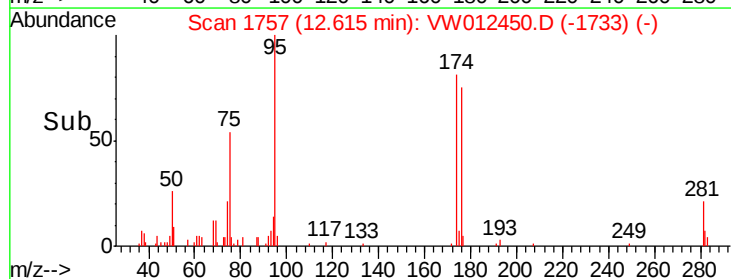
75 100

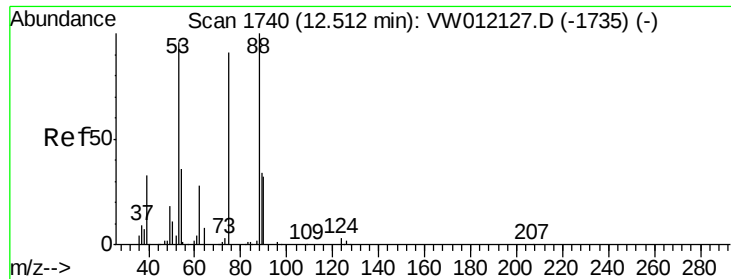
77 1.6 0.0 0.0#



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: 204.708 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

Instrument :

MSVOA_W

ClientSampleId :

T1-S-B2-(0)RE

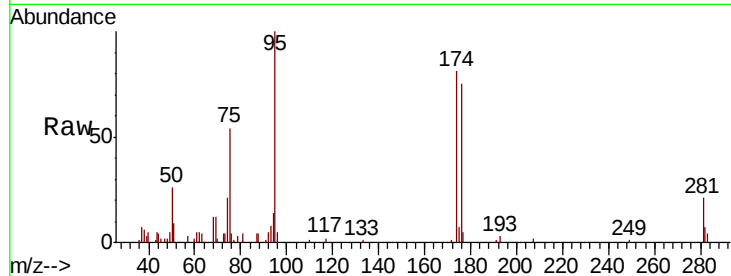
Tgt Ion: 75 Resp: 4372

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

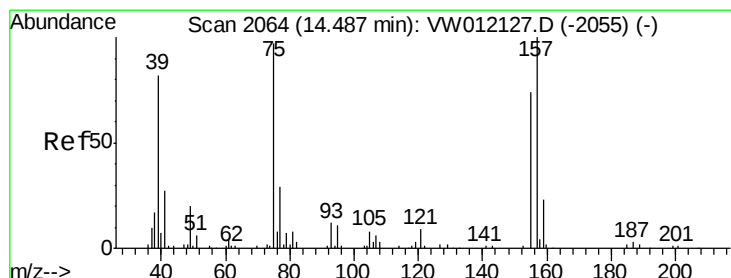
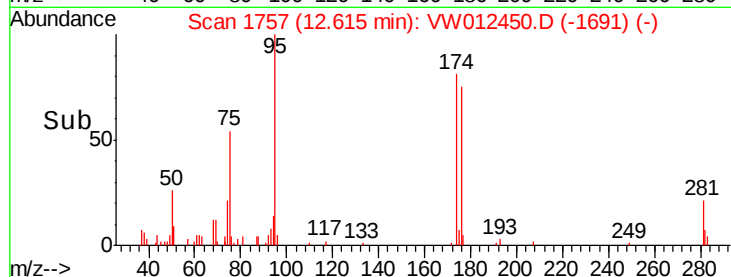
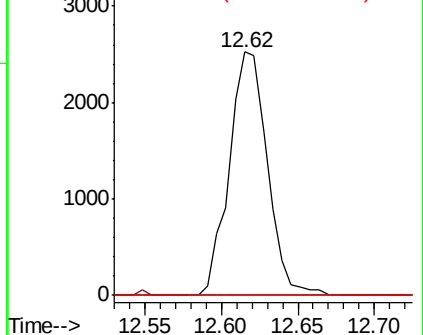
89 0.0 34.5 51.7#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.772 ug/l

RT: 14.41 min Scan# 2052

Delta R.T. -0.07 min

Lab File: VW012450.D

Acq: 01 Sep 2019 16:05

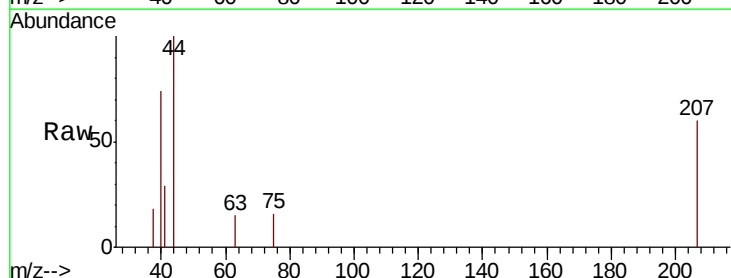
Tgt Ion: 75 Resp: 42

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

