

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090119\
 Data File : VW012459.D
 Acq On : 01 Sep 2019 19:56
 Operator : SY/VA
 Sample : K4516-16
 Misc : 4.16G/5ML/MSVOA W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(2.5)

Quant Time: Sep 02 07:21:23 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	9461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	14465	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	10554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	1381	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	7824	69.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	139.14%	
35) Dibromofluoromethane	7.88	113	5777	66.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.82%	
50) Toluene-d8	10.32	98	16576	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	
62) 4-Bromofluorobenzene	12.62	95	2549	20.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.32%	

Target Compounds

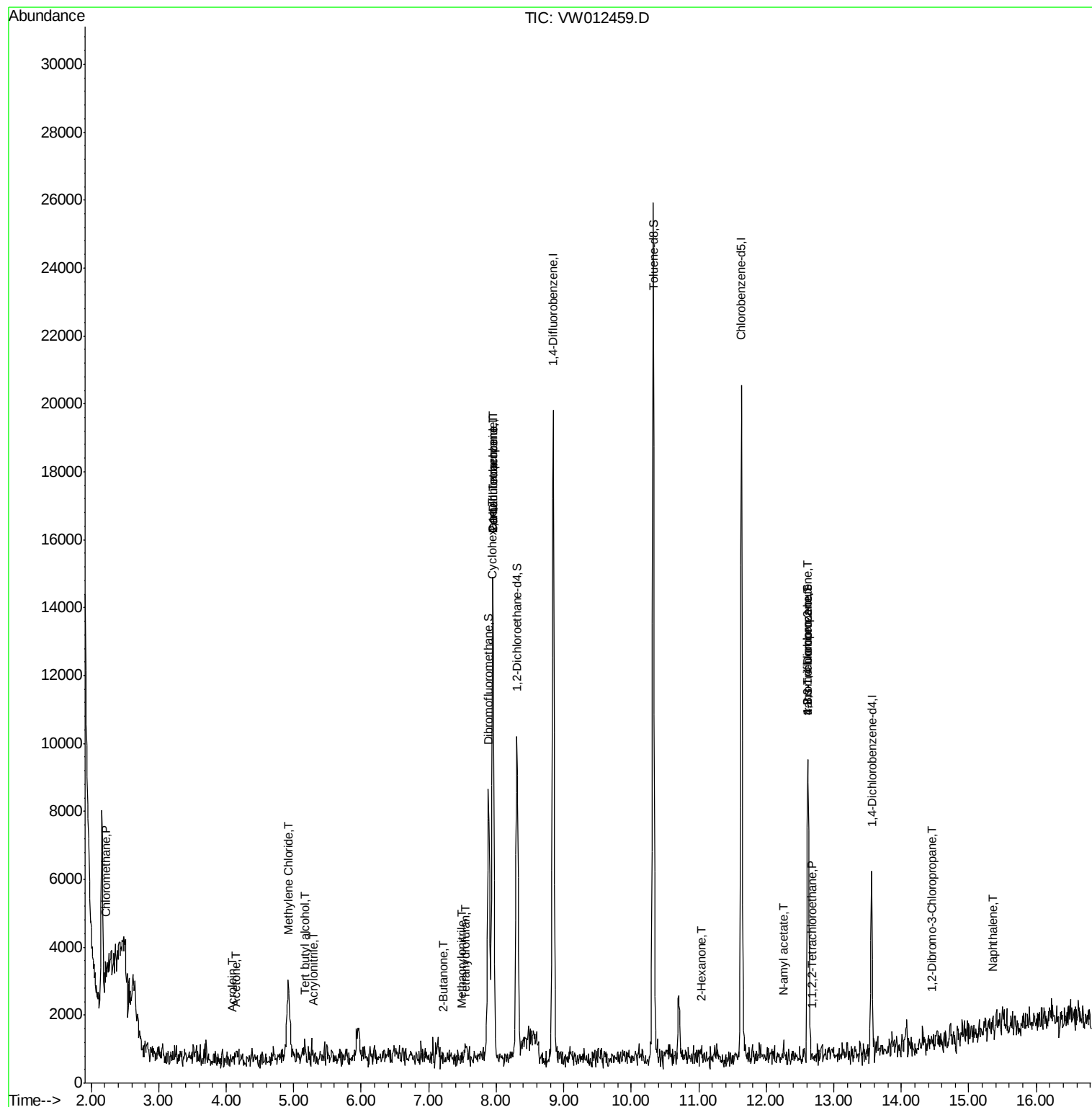
						Qvalue
3) Chloromethane	2.21	50	115	1.274	ug/l	100
11) Tert butyl alcohol	5.17	59	19	2.807	ug/l #	71
13) Acrolein	4.09	56	46	7.220	ug/l #	15
15) Acrylonitrile	5.29	53	29	1.111	ug/l #	17
16) Acetone	4.15	43	499	17.357	ug/l	96
20) Methylene Chloride	4.92	84	1454	13.378	ug/l	91
25) 2-Butanone	7.23	43	42	1.075	ug/l #	56
29) Tetrahydrofuran	7.53	42	97	4.138	ug/l #	83
31) Cyclohexane	7.94	56	316	1.560	ug/l #	32
36) 1,1-Dichloropropene	7.95	75	897	6.001	ug/l #	48
38) Carbon Tetrachloride	7.95	117	897	6.933	ug/l #	24
41) Methacrylonitrile	7.48	41	153	3.178	ug/l #	52
59) 2-Hexanone	11.04	43	108	1.978	ug/l	95
74) N-amyl acetate	12.27	43	80	2.559	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.69	83	22	1.160	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	1270	94.424	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	1270	207.028	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.45	75	20	6.254	ug/l #	5
95) Naphthalene	15.36	128	29	4.830	ug/l #	69

(#) = 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: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

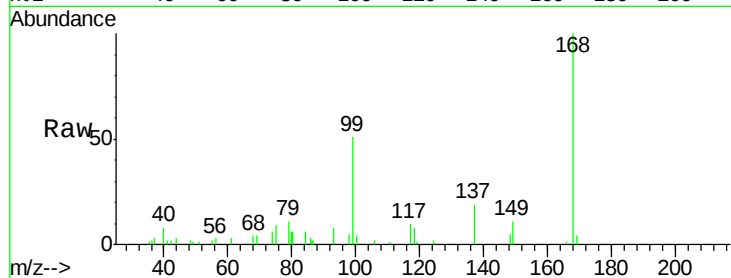
T2-S-B4-(2.5)

Tot Ion:168 Resp: 9461

Ion Ratio Lower Upper

168 100

99 50.7 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

4000

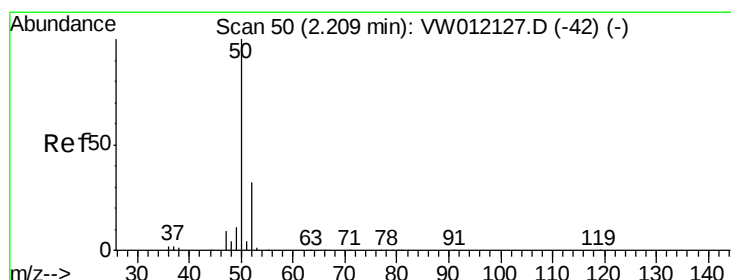
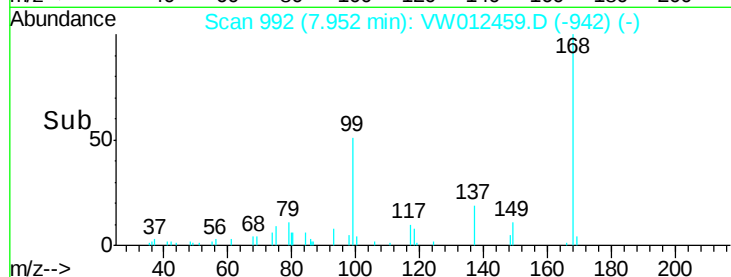
3000

2000

1000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 1.274 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW012459.D

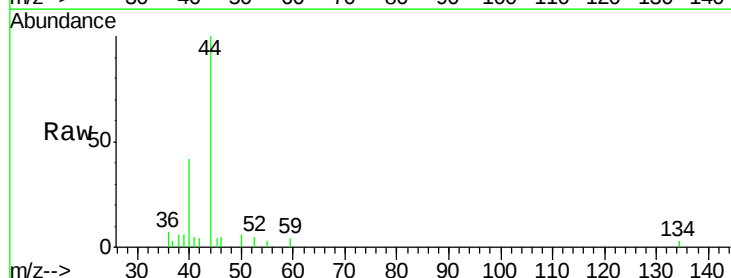
Acq: 01 Sep 2019 19:56

Tgt Ion: 50 Resp: 115

Ion Ratio Lower Upper

50 100

52 32.1 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

120

100

80

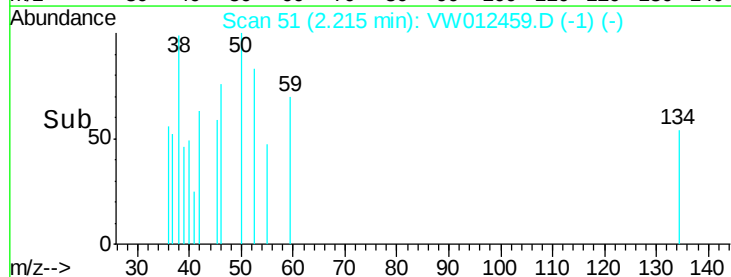
60

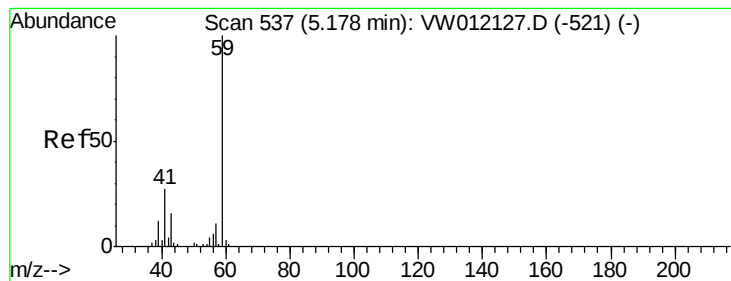
40

20

0

Time--> 2.18 2.20 2.22 2.24



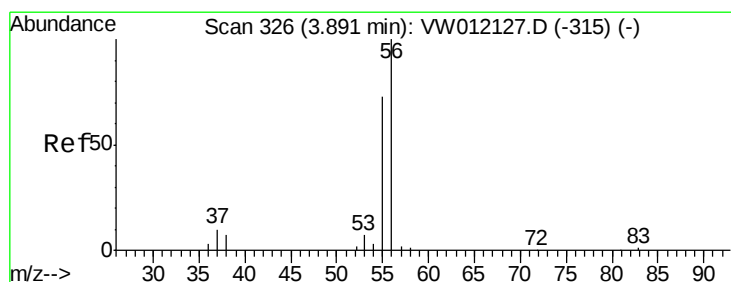
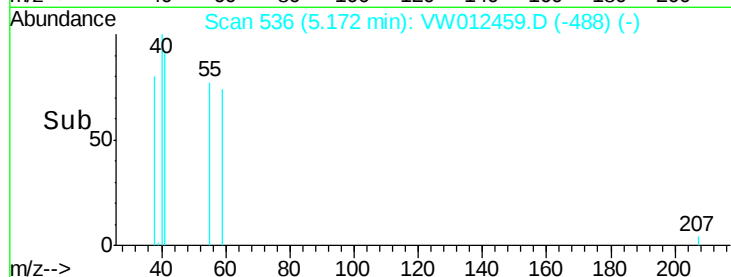
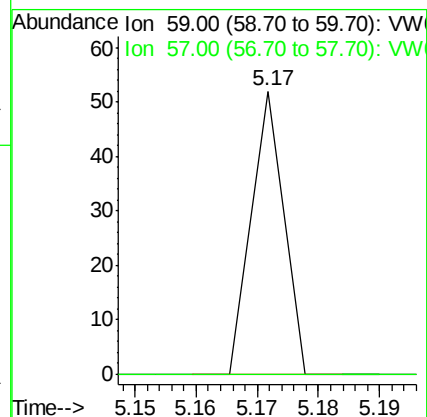
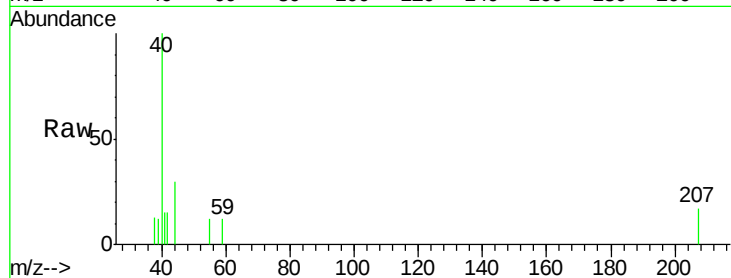


#11

Tert butvl alcohol
 Concen: 2.807 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. -0.01 min
 Lab File: VW012459.D
 Acq: 01 Sep 2019 19:56

Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(2.5)

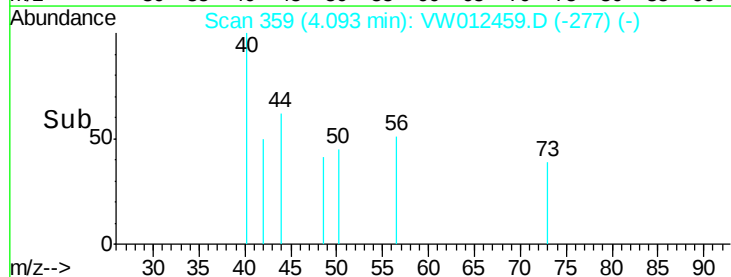
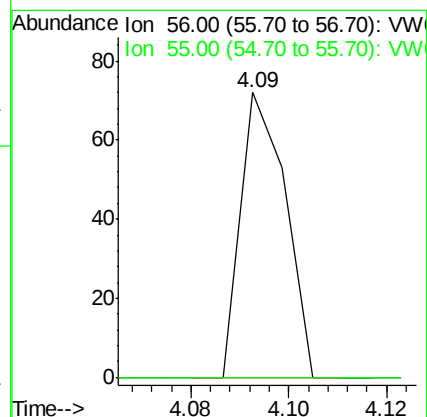
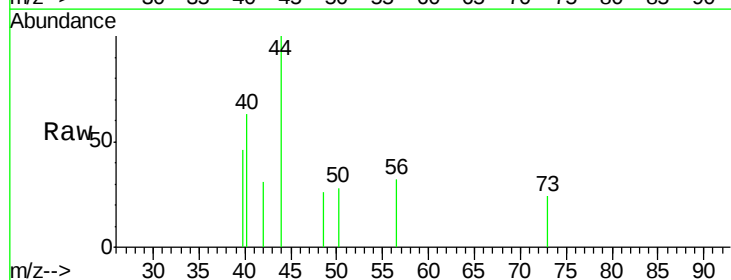
Tot Ion: 59 Resp: 19
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

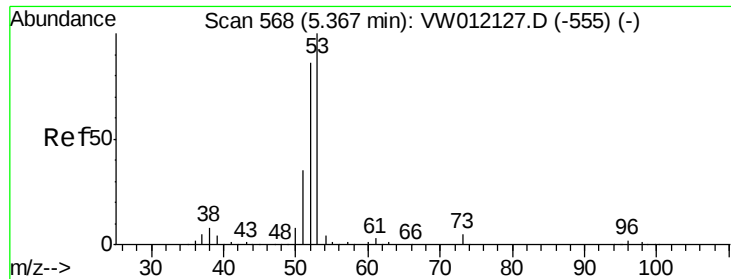


#13

Acrolein
 Concen: 7.220 ug/l
 RT: 4.09 min Scan# 359
 Delta R.T. 0.20 min
 Lab File: VW012459.D
 Acq: 01 Sep 2019 19:56

Tgt Ion: 56 Resp: 46
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#

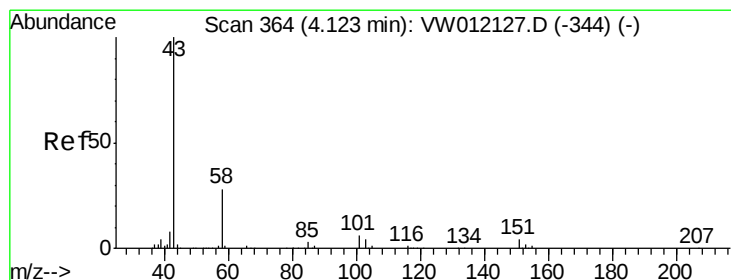
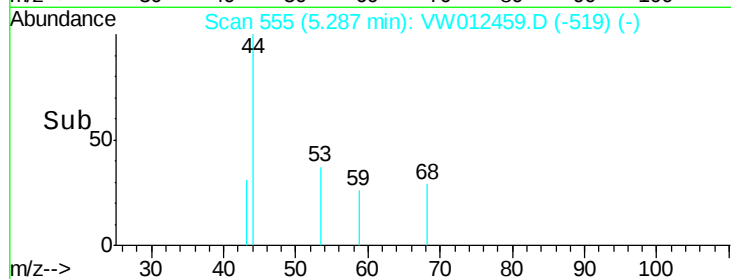
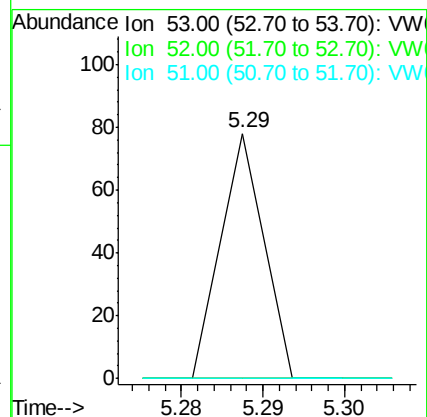
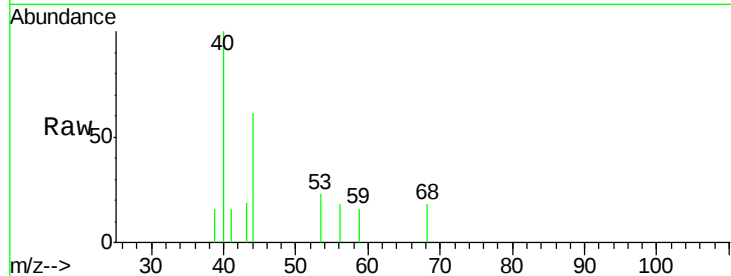




#15
 Acrylonitrile
 Concen: 1.111 ug/l
 RT: 5.29 min Scan# 555
 Delta R.T. -0.08 min
 Lab File: VW012459.D
 Acq: 01 Sep 2019 19:56

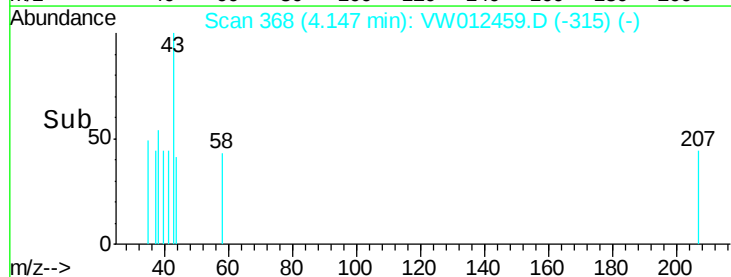
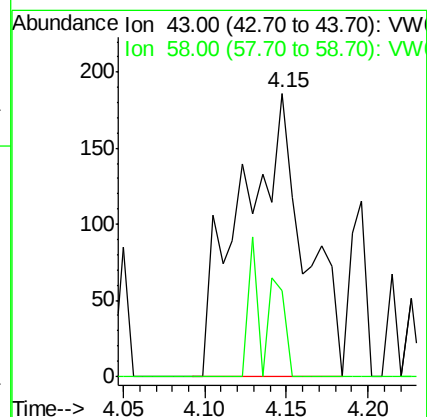
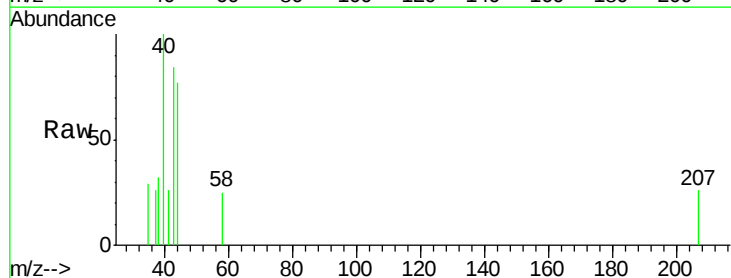
Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(2.5)

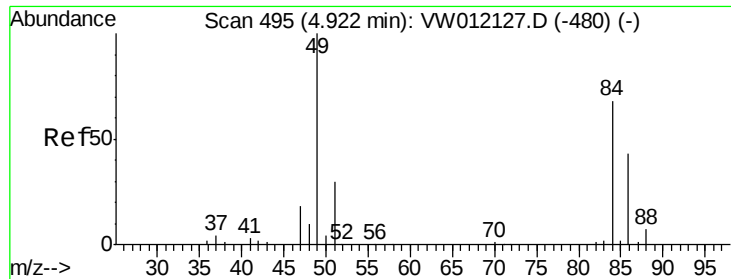
Tot Ion: 53 Resp: 29
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.7 100.1#
 51 0.0 30.1 45.1#



#16
 Acetone
 Concen: 17.357 ug/l
 RT: 4.15 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VW012459.D
 Acq: 01 Sep 2019 19:56

Tgt Ion: 43 Resp: 499
 Ion Ratio Lower Upper
 43 100
 58 30.1 22.4 33.6

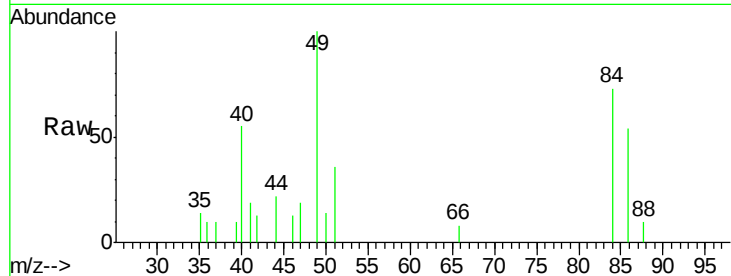




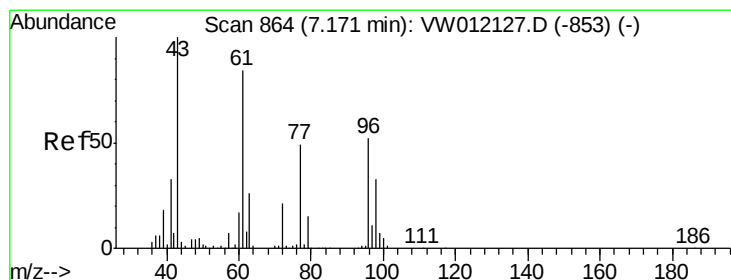
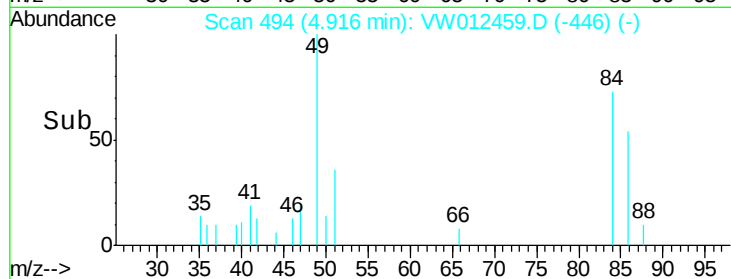
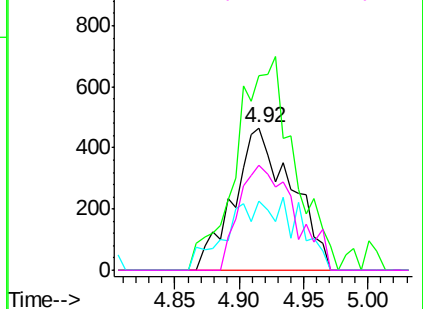
#20
Methvlene Chloride
Concen: 13.378 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(2.5)

Tot Ion:	84	Resp:	1454
Ion	Ratio	Lower	Upper
84	100		
49	136.5	117.8	176.8
51	48.9	35.6	53.4
86	73.6	51.2	76.8

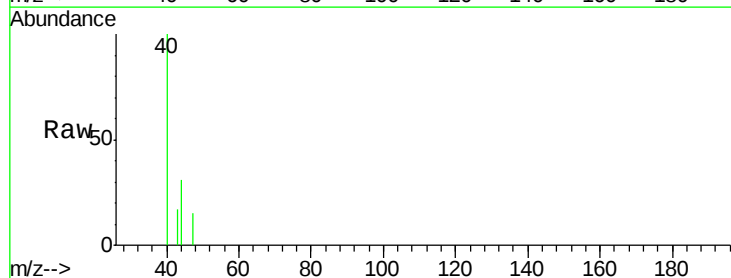


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

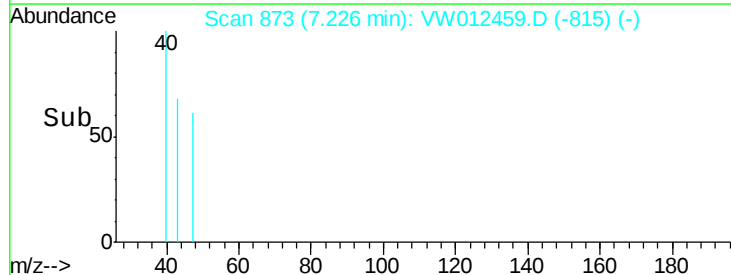
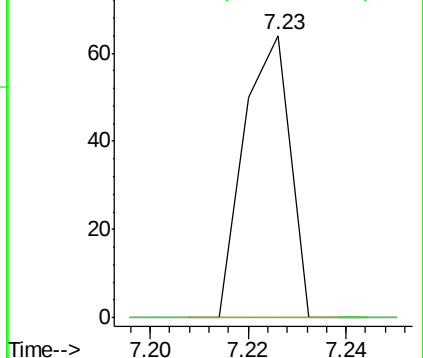


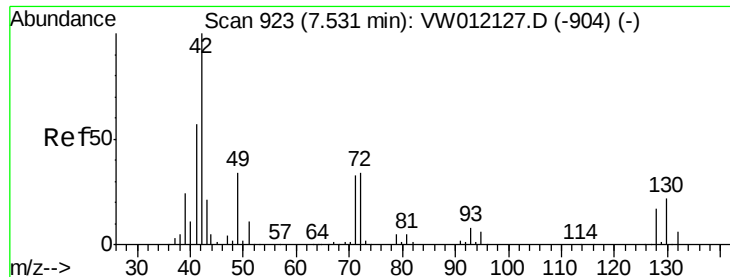
#25
2-Butanone
Concen: 1.075 ug/l
RT: 7.23 min Scan# 873
Delta R.T. 0.05 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

Tgt Ion:	43	Resp:	42
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.6	24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 4.138 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampled :

T2-S-B4-(2.5)

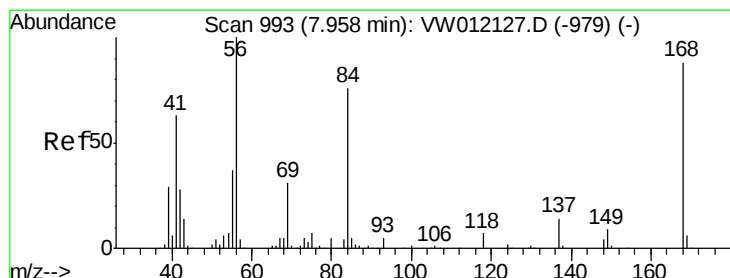
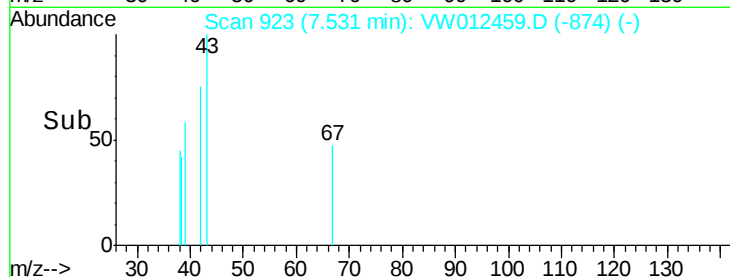
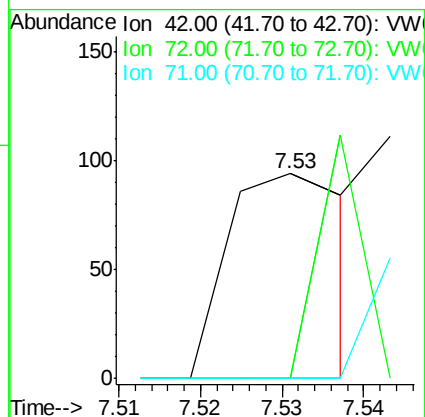
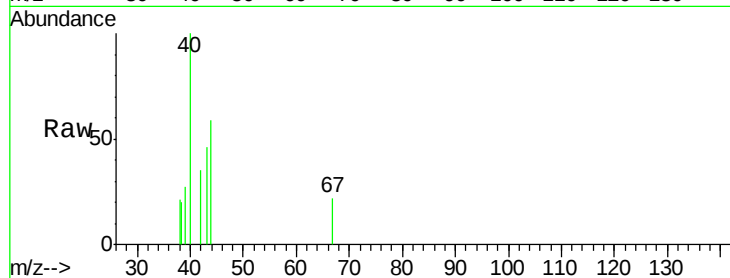
Tot Ion: 42 Resp: 97

Ion Ratio Lower Upper

42 100

72 42.3 27.3 40.9#

71 20.6 25.5 38.3#



#31

Cyclohexane

Concen: 1.560 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

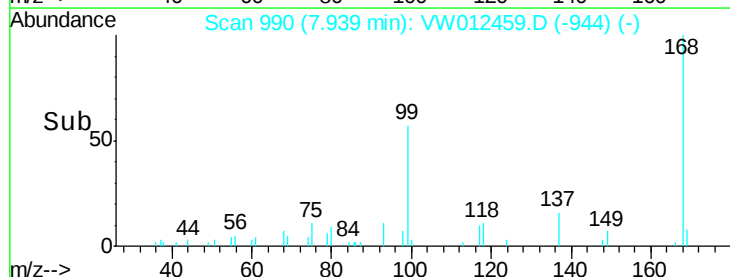
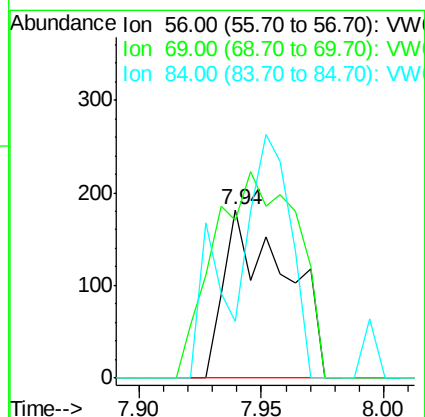
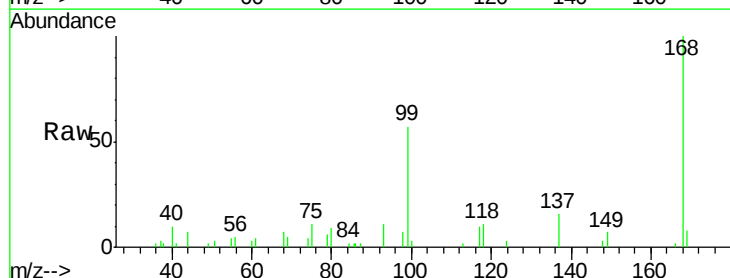
Tgt Ion: 56 Resp: 316

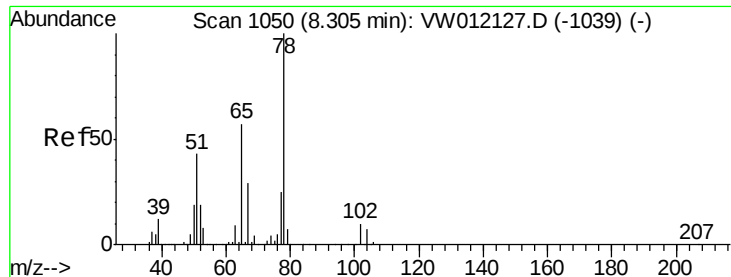
Ion Ratio Lower Upper

56 100

69 94.0 24.9 37.3#

84 33.5 60.6 90.8#





#33

1,2-Dichloroethane-d4

Concen: 69.566 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

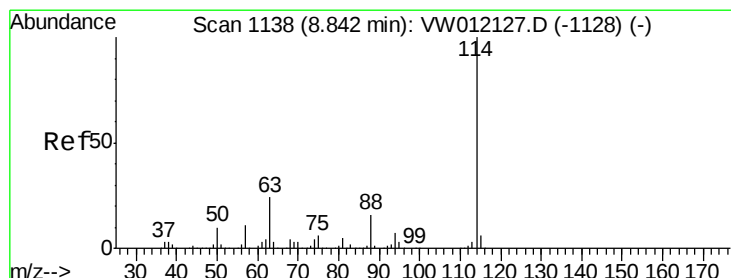
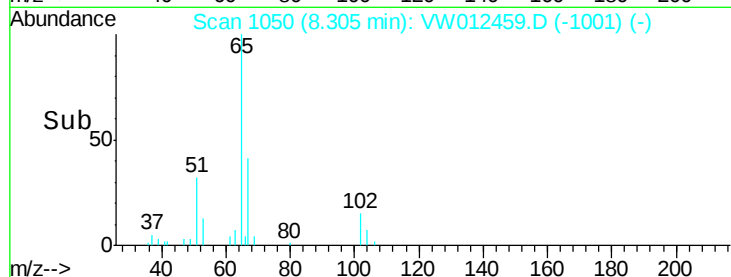
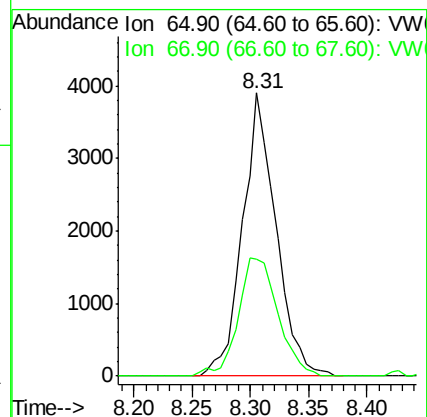
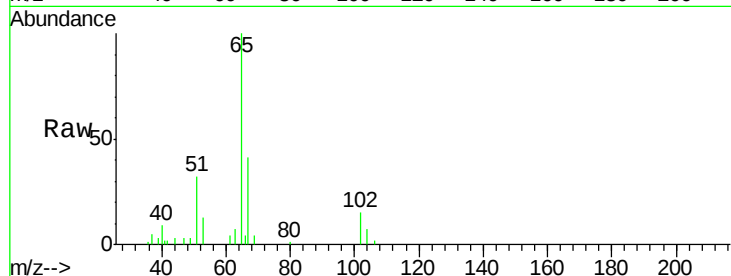
T2-S-B4-(2.5)

Tot Ion: 65 Resp: 7824

Ion Ratio Lower Upper

65 100

67 49.6 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: VW012459.D

Acq: 01 Sep 2019 19:56

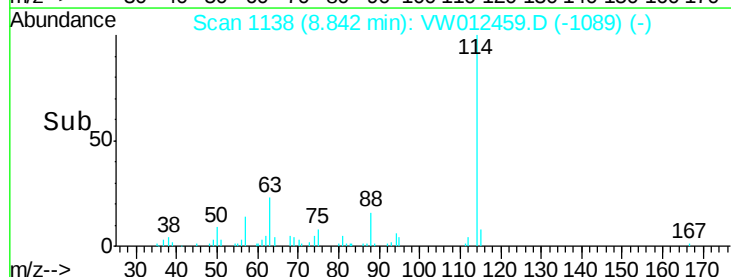
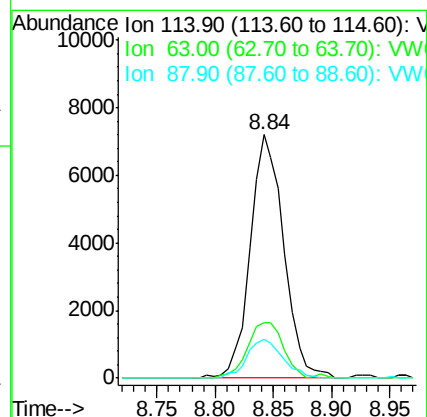
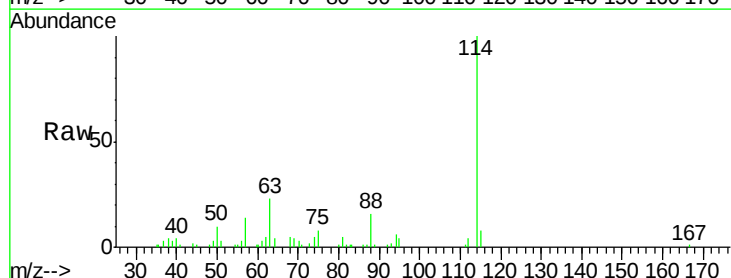
Tgt Ion: 114 Resp: 14465

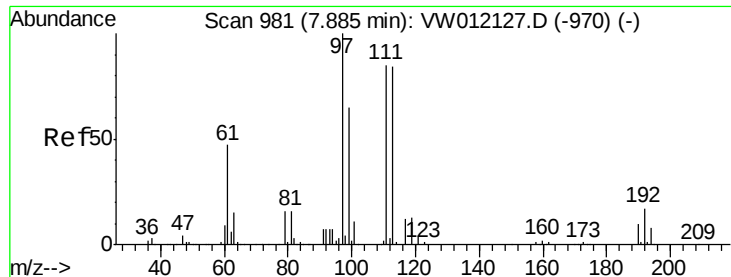
Ion Ratio Lower Upper

114 100

63 23.0 0.0 48.6

88 16.1 0.0 32.2

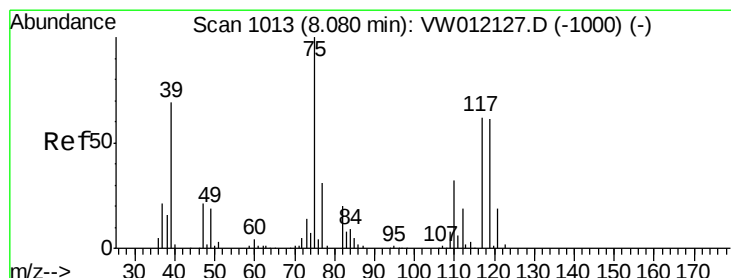
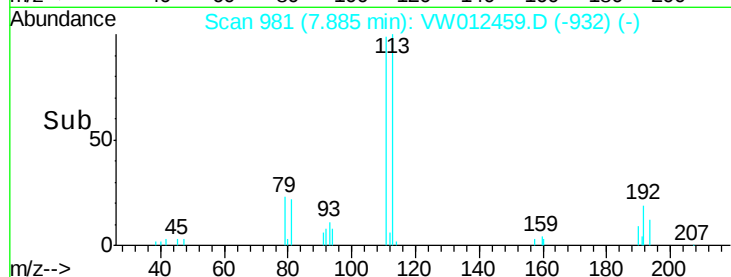
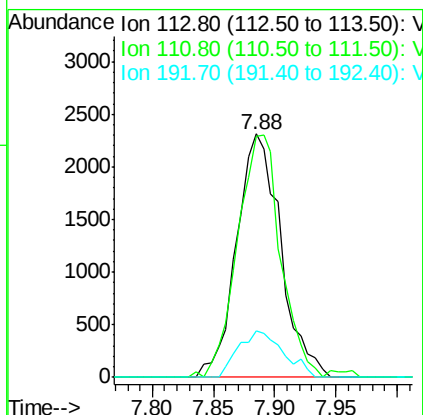
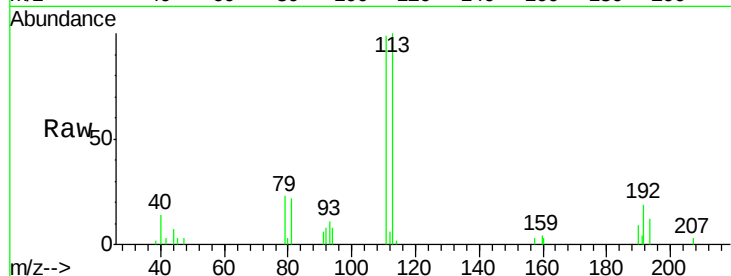




#35
 Dibromofluoromethane
 Concen: 66.908 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012459.D
 Acq: 01 Sep 2019 19:56

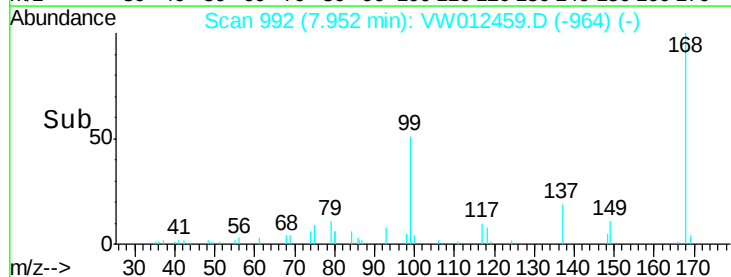
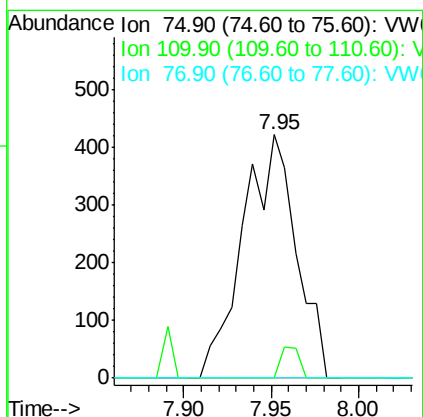
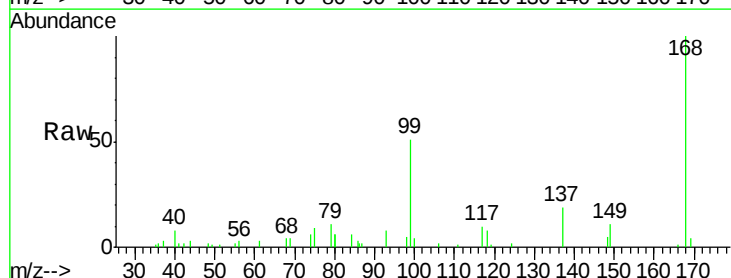
Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(2.5)

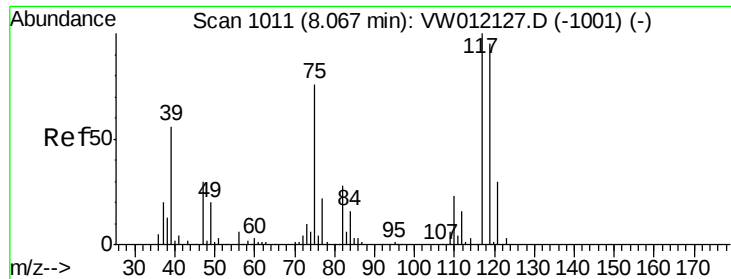
Tot Ion:113 Resp: 5777
 Ion Ratio Lower Upper
 113 100
 111 97.7 82.7 124.1
 192 19.5 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 6.001 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW012459.D
 Acq: 01 Sep 2019 19:56

Tgt Ion: 75 Resp: 897
 Ion Ratio Lower Upper
 75 100
 110 4.2 15.6 46.8#
 77 0.0 24.6 36.8#

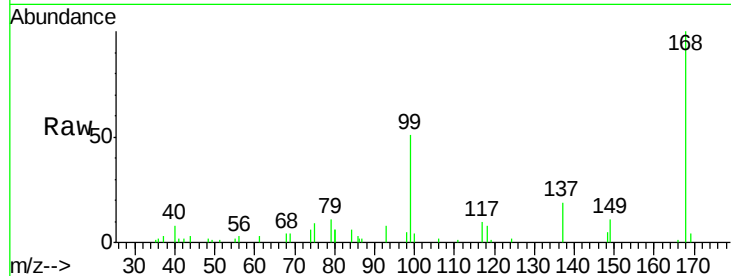




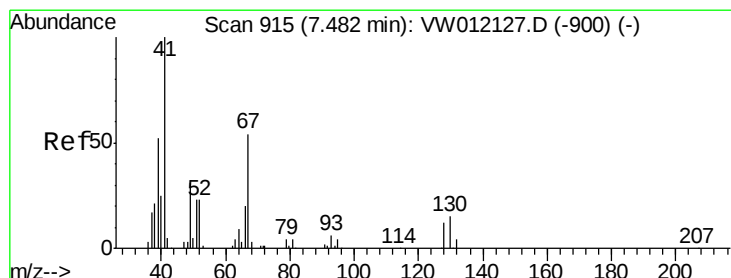
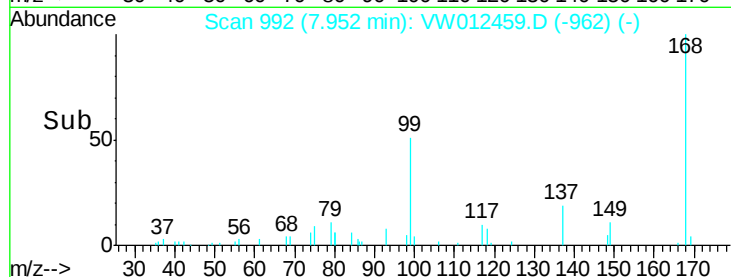
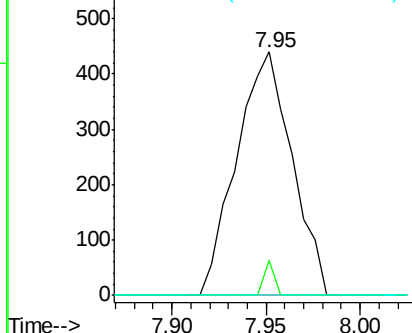
#38
Carbon Tetrachloride
Concen: 6.933 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(2.5)

Tot Ion:117 Resp: 897
Ion Ratio Lower Upper
117 100
119 14.5 76.2 114.2#
121 0.0 23.8 35.8#

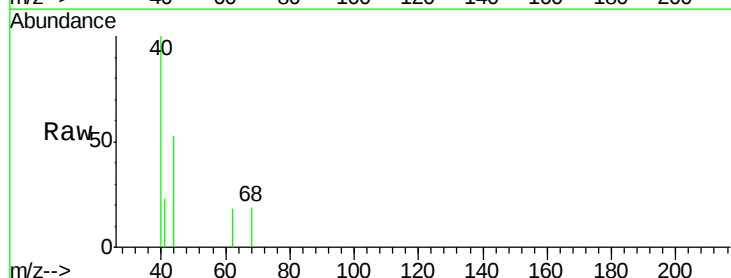


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

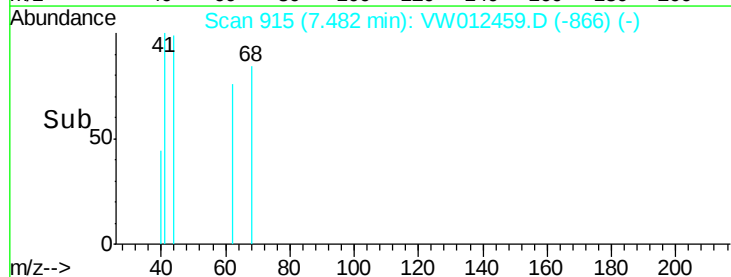
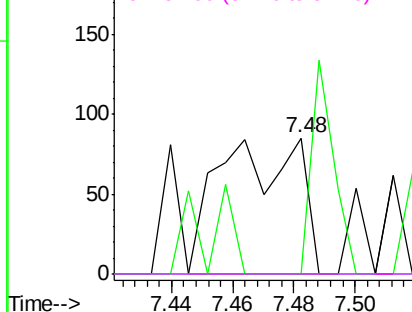


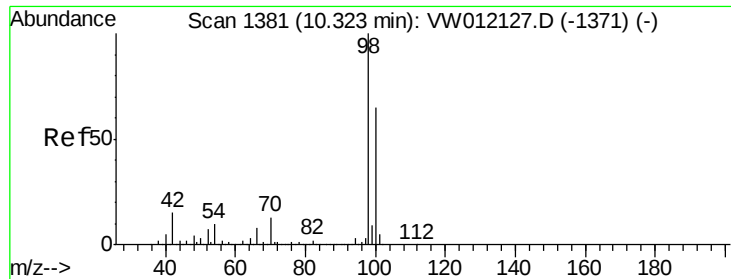
#41
Methacrylonitrile
Concen: 3.178 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

Tgt Ion: 41 Resp: 153
Ion Ratio Lower Upper
41 100
39 44.4 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

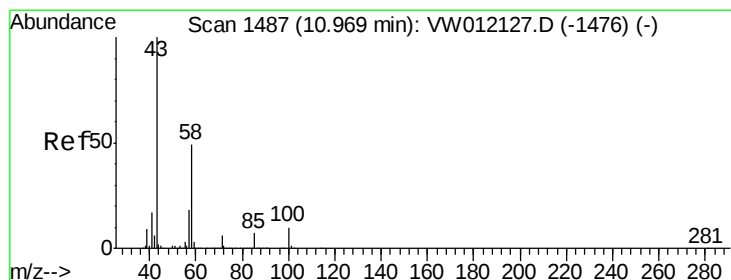
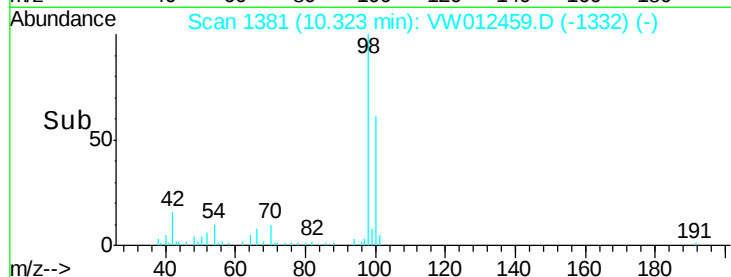
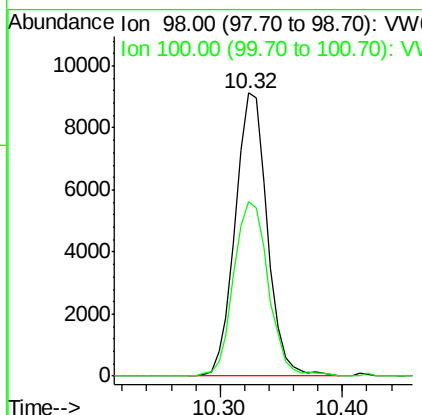
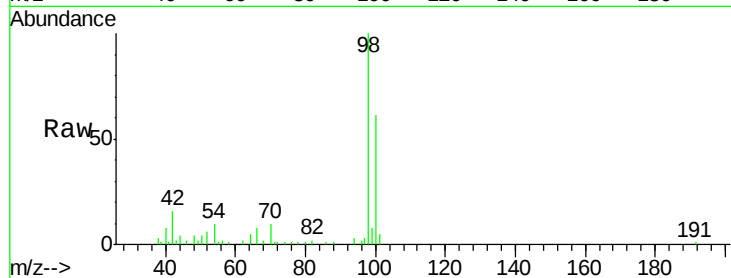




#50
Toluene-d8
Concen: 47.348 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

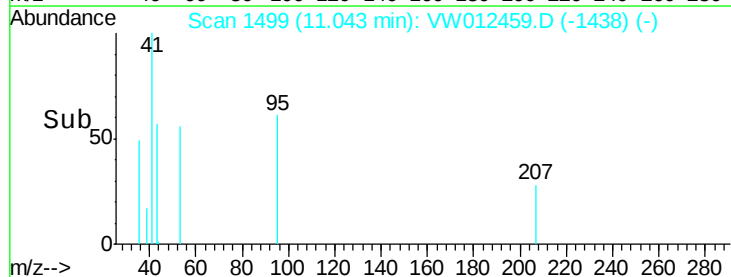
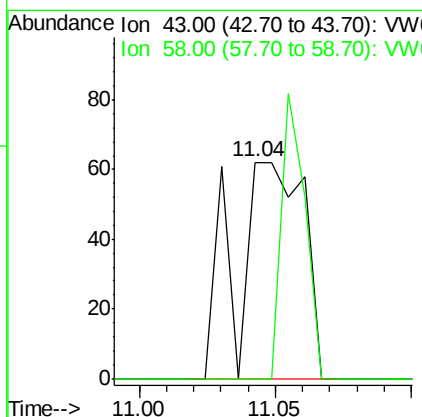
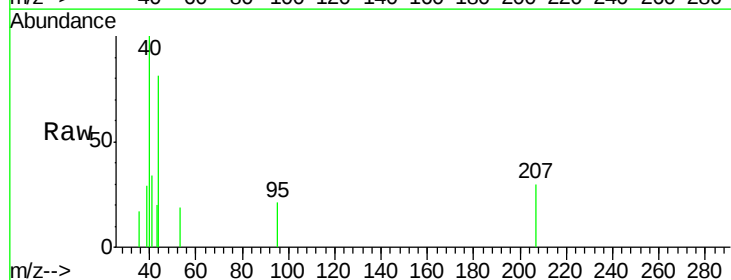
Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(2.5)

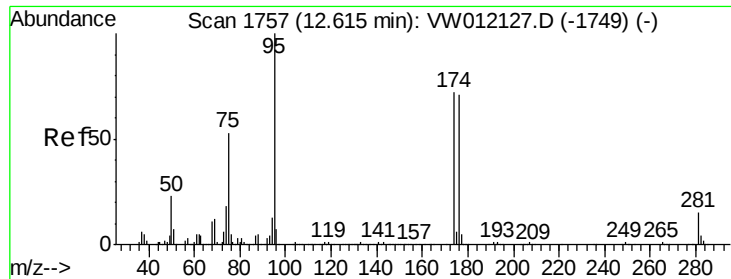
Tot Ion: 98 Resp: 16576
Ion Ratio Lower Upper
98 100
100 66.7 52.4 78.6



#59
2-Hexanone
Concen: 1.978 ug/l
RT: 11.04 min Scan# 1499
Delta R.T. 0.07 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

Tgt Ion: 43 Resp: 108
Ion Ratio Lower Upper
43 100
58 45.4 24.3 72.9

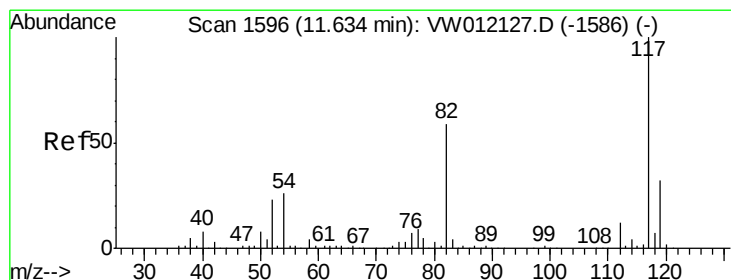
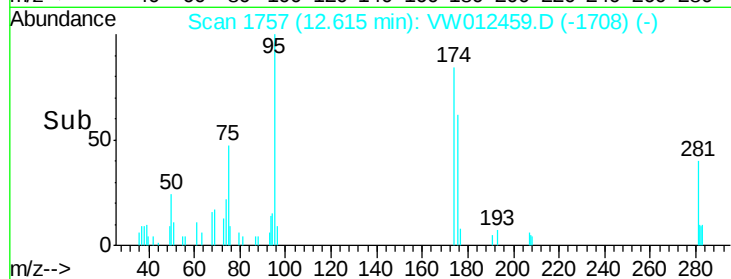
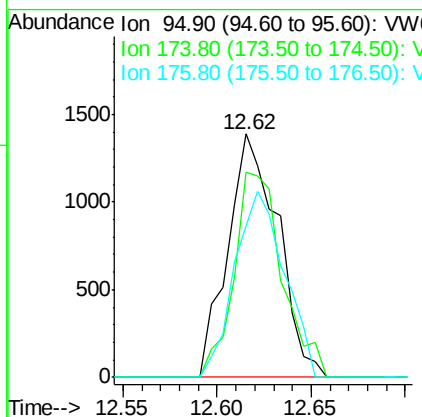
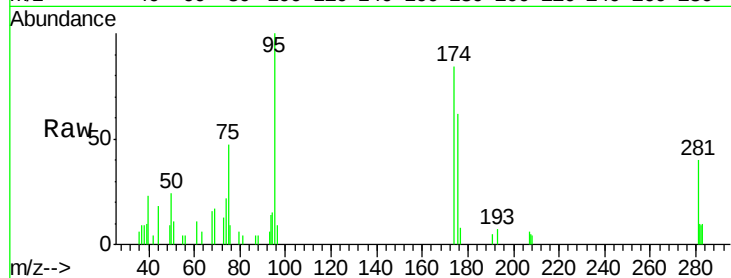




#62
4-Bromofluorobenzene
Concen: 20.655 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

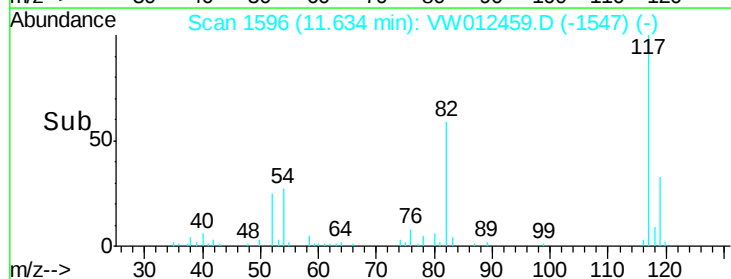
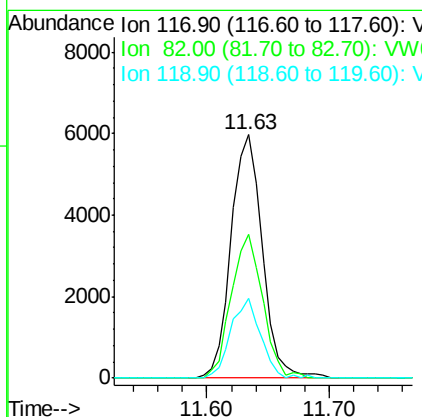
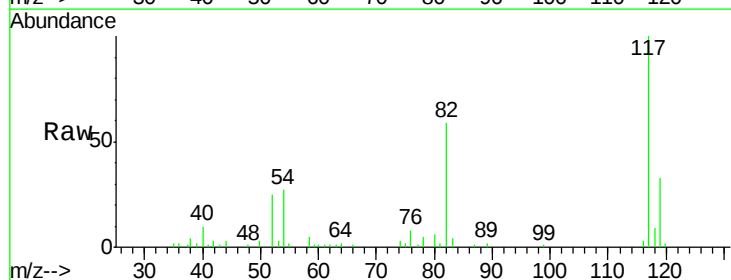
Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(2.5)

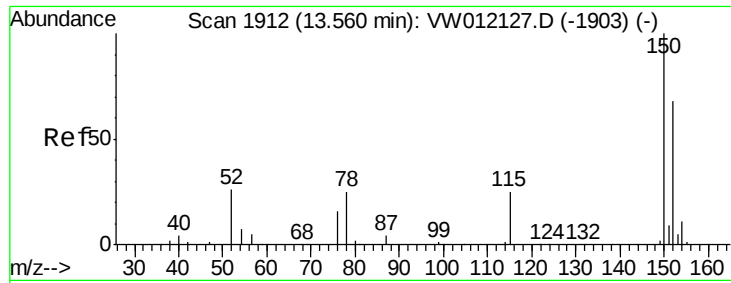
Tot Ion: 95 Resp: 2549
Ion Ratio Lower Upper
95 100
174 81.6 0.0 150.8
176 75.9 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW012459.D
Acq: 01 Sep 2019 19:56

Tgt Ion: 117 Resp: 10554
Ion Ratio Lower Upper
117 100
82 59.3 47.4 71.2
119 32.5 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: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

T2-S-B4-(2.5)

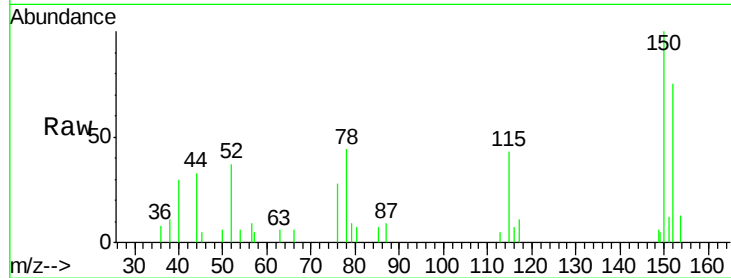
Tot Ion:152 Resp: 1381

Ion Ratio Lower Upper

152 100

115 60.5 30.1 90.3

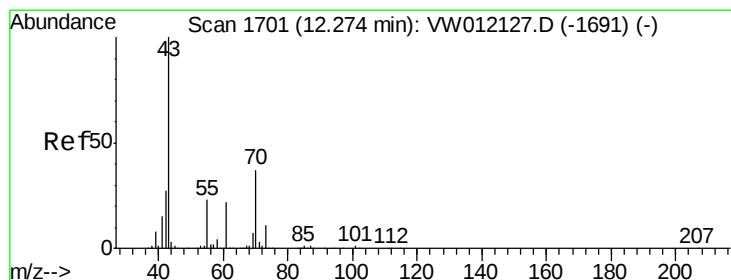
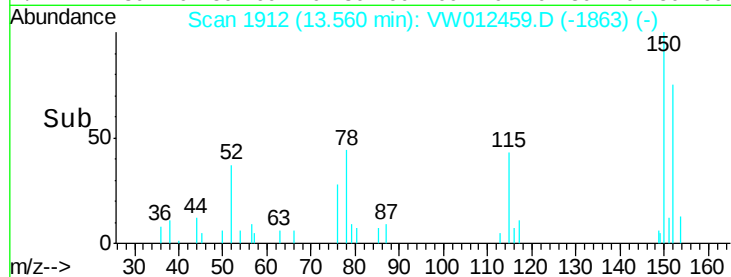
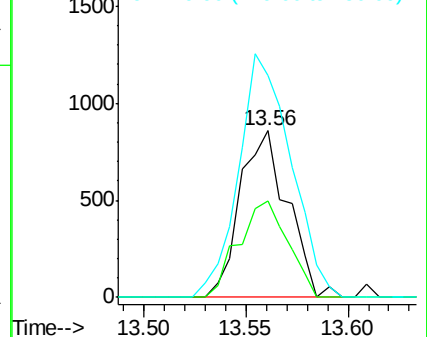
150 161.5 0.0 345.8



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



#74

N-ethyl acetate

Concen: 2.559 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. -0.01 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

Tgt Ion: 43 Resp: 80

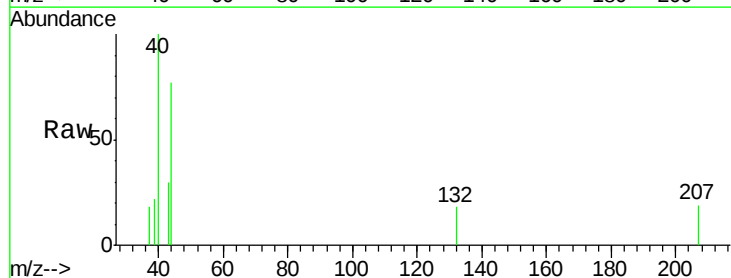
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.6#

61 0.0 17.3 25.9#

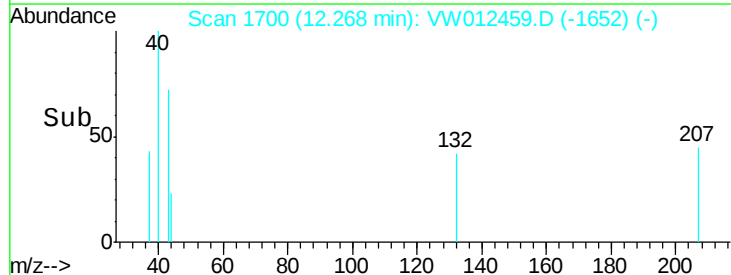
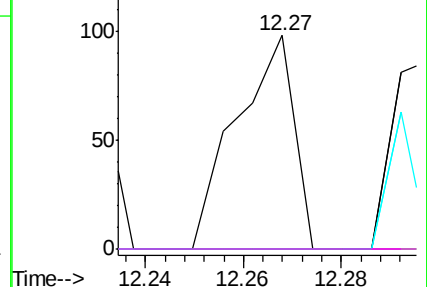


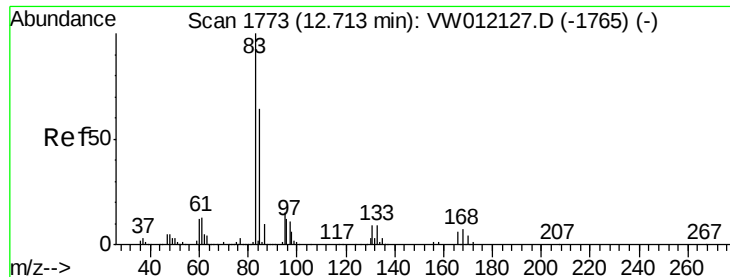
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 1.160 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

T2-S-B4-(2.5)

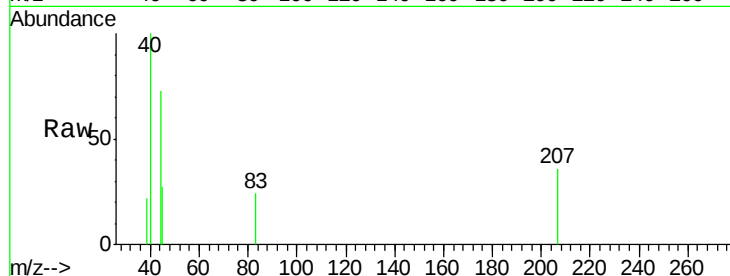
Tot Ion: 83 Resp: 22

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 31.9 95.7#



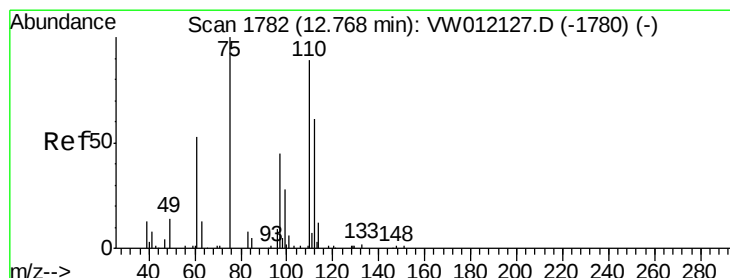
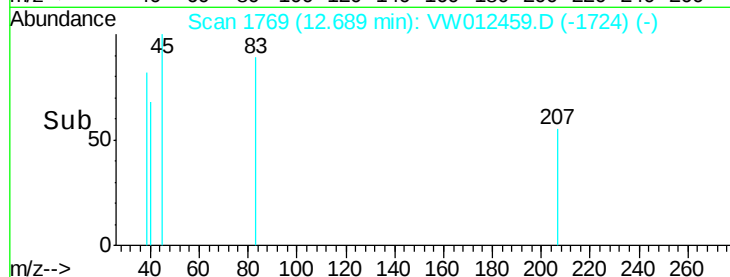
Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW

12.69

Time-->



#76

1,2,3-Trichloropropane

Concen: 94.424 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012459.D

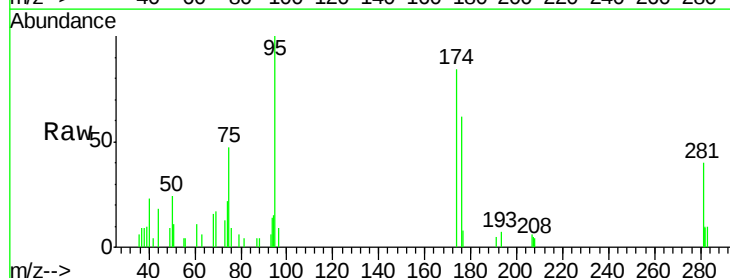
Acq: 01 Sep 2019 19:56

Tgt Ion: 75 Resp: 1270

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

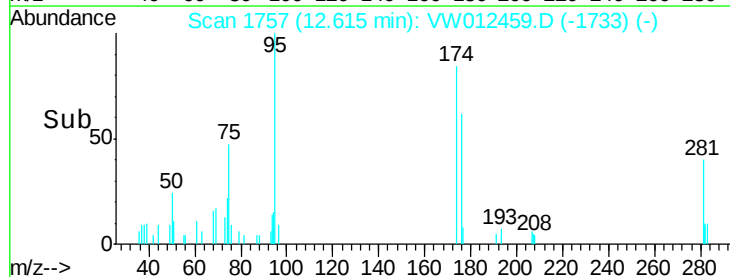


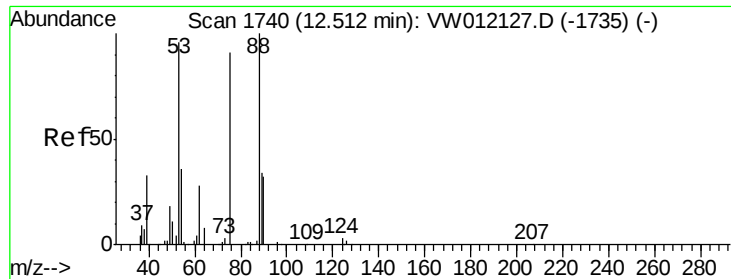
Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 207.028 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampled :

T2-S-B4-(2.5)

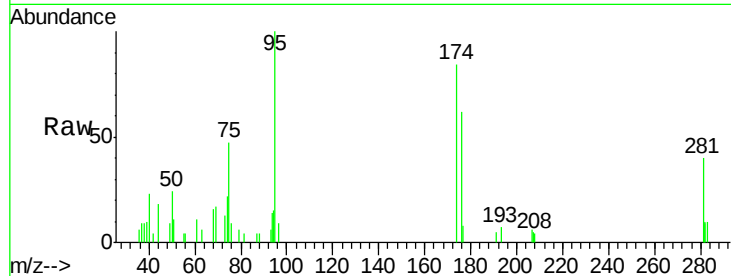
Tot Ion: 75 Resp: 1270

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

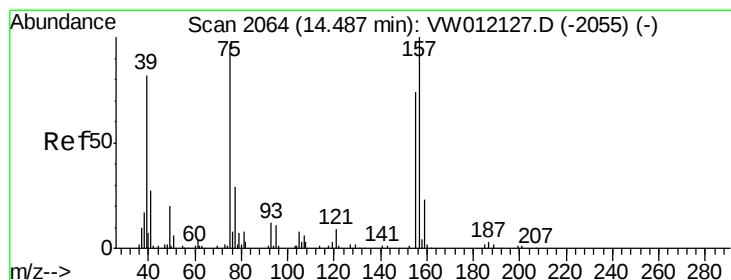
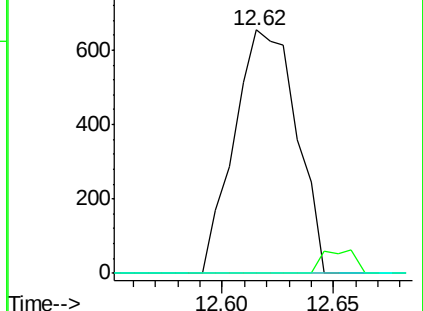
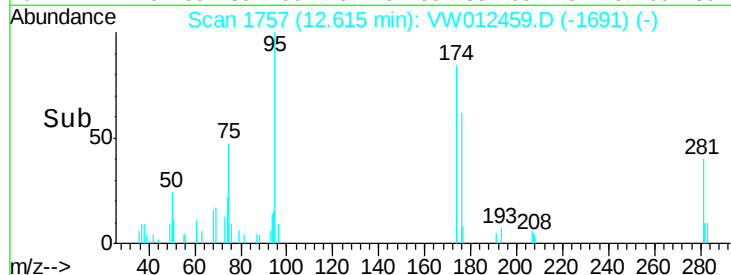
89 0.0 34.5 51.7#



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: 6.254 ug/l

RT: 14.45 min Scan# 2058

Delta R.T. -0.04 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

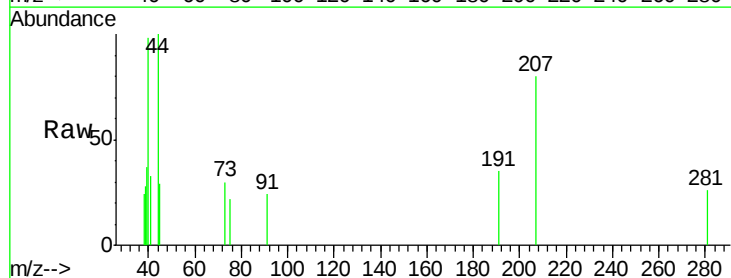
Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

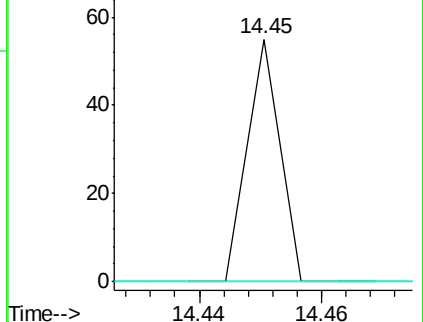
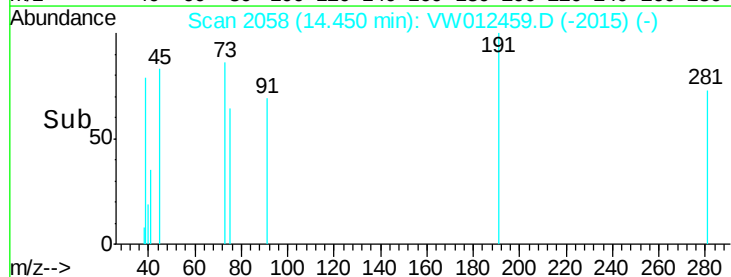
157 0.0 50.5 151.5#

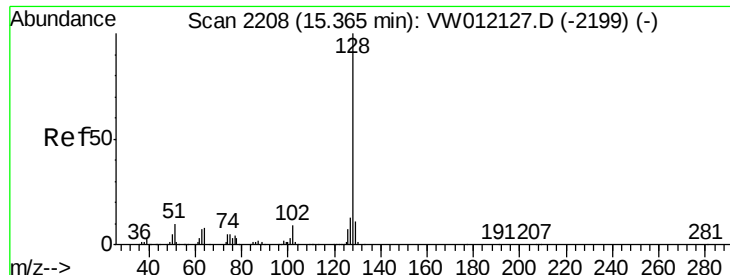


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 4.830 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012459.D

Acq: 01 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

T2-S-B4-(2.5)

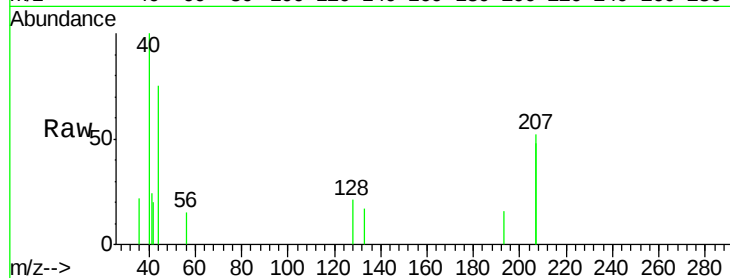
Tot Ion:128 Resp: 29

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 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

