

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012454.D
 Acq On : 01 Sep 2019 17:48
 Operator : SY/VA
 Sample : K4516-05
 Misc : 5.65G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-B4-(0)

Quant Time: Sep 02 07:20:07 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	7121	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	9881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	6585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	1022	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	5500	64.97	ug/l	0.00
Spiked Amount			Recovery	=	129.94%	
35) Dibromofluoromethane	7.88	113	3758	63.72	ug/l	0.00
Spiked Amount			Recovery	=	127.44%	
50) Toluene-d8	10.32	98	11314	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
62) 4-Bromofluorobenzene	12.62	95	1711	20.30	ug/l	0.00
Spiked Amount			Recovery	=	40.60%	

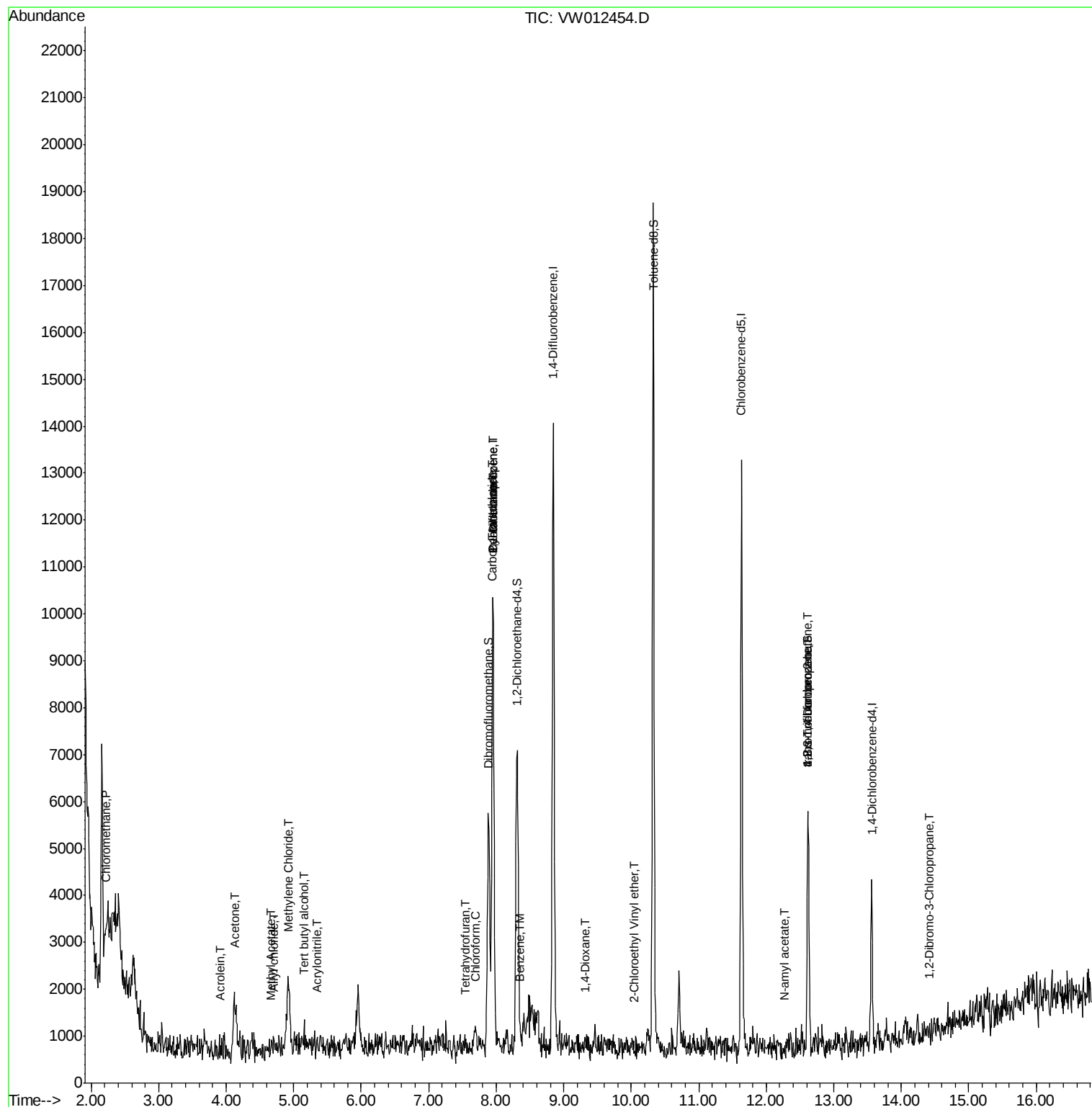
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	110	1.619	ug/l #	68
11) Tert butyl alcohol	5.15	59	50	9.815	ug/l #	24
13) Acrolein	3.92	56	55	11.469	ug/l #	15
14) Allyl chloride	4.70	41	311	2.037	ug/l #	39
15) Acrylonitrile	5.35	53	64	3.258	ug/l #	35
16) Acetone	4.14	43	2281	105.413	ug/l	92
18) Methyl Acetate	4.66	43	69	1.287	ug/l #	57
20) Methylene Chloride	4.92	84	831	10.159	ug/l #	85
29) Tetrahydrofuran	7.54	42	114	6.462	ug/l #	57
30) Chloroform	7.70	83	345	2.447	ug/l #	19
31) Cyclohexane	7.95	56	297	1.948	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	687	6.728	ug/l #	46
38) Carbon Tetrachloride	7.94	117	818	9.256	ug/l #	12
40) Benzene	8.36	78	302	1.083	ug/l #	51
49) 1,4-Dioxane	9.32	88	31	60.653	ug/l #	18
58) 2-Chloroethyl Vinyl ether	10.05	63	38	1.077	ug/l #	50
74) N-amyl acetate	12.27	43	27	1.167	ug/l #	47
76) 1,2,3-Trichloropropane	12.62	75	1110	111.518	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	1110	244.507	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.41	75	19	8.028	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# 992

Delta R.T. 0.01 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

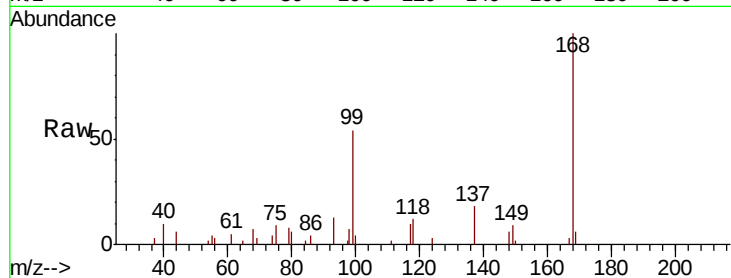
T1-S-B4-(0)

Tgt Ion: 168 Resp: 7121

Ion Ratio Lower Upper

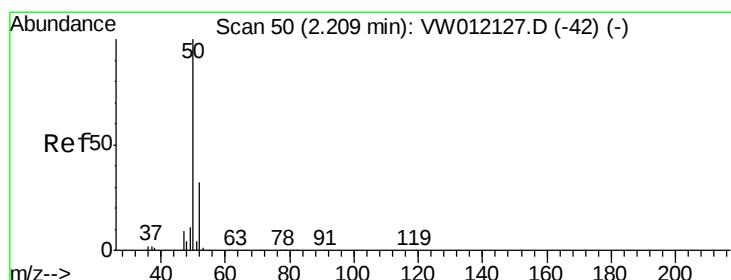
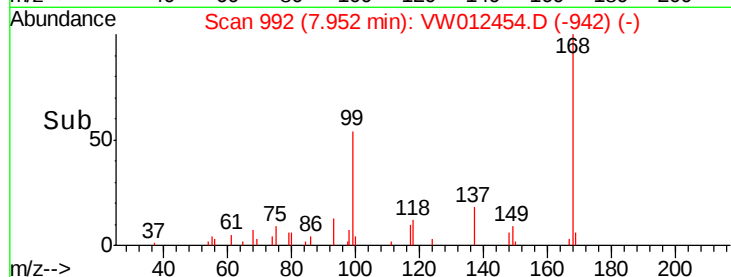
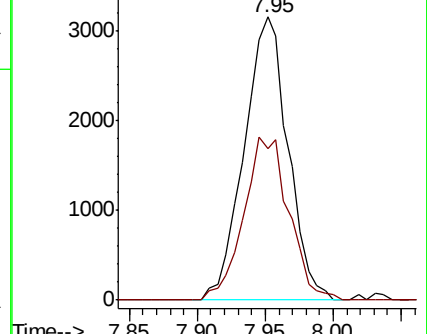
168 100

99 53.6 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: 1.619 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW012454.D

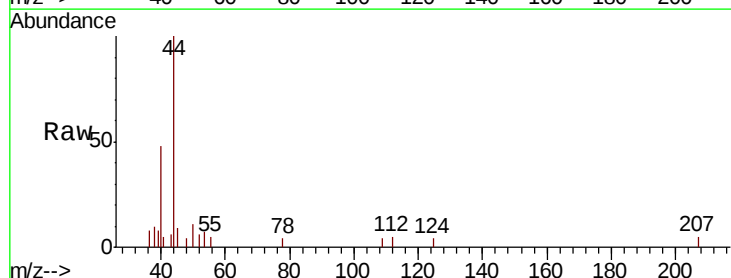
Acq: 01 Sep 2019 17:48

Tgt Ion: 50 Resp: 110

Ion Ratio Lower Upper

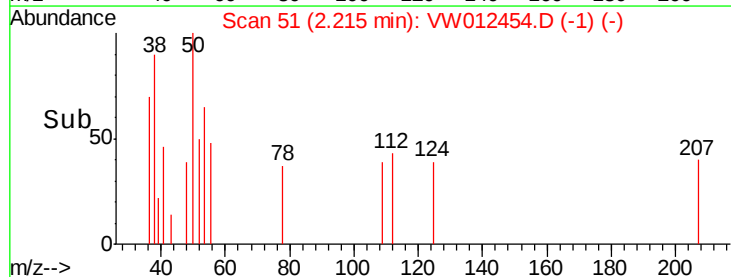
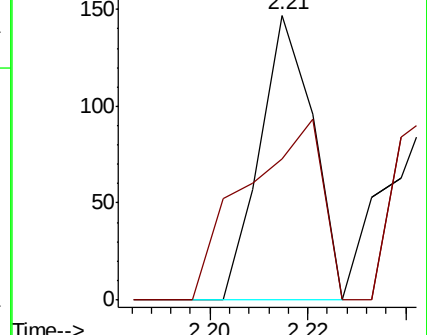
50 100

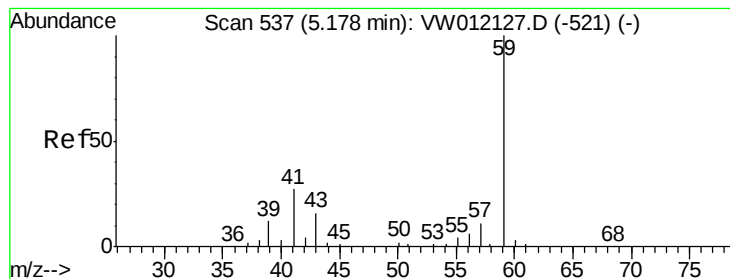
52 49.7 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#11

Tert butyl alcohol

Concen: 9.815 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.02 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

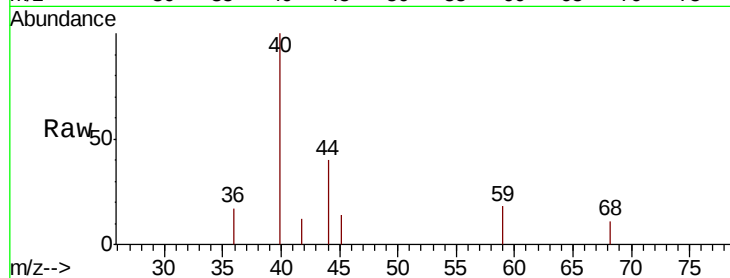
T1-S-B4-(0)

Tgt Ion: 59 Resp: 50

Ion Ratio Lower Upper

59 100

57 40.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

80

60

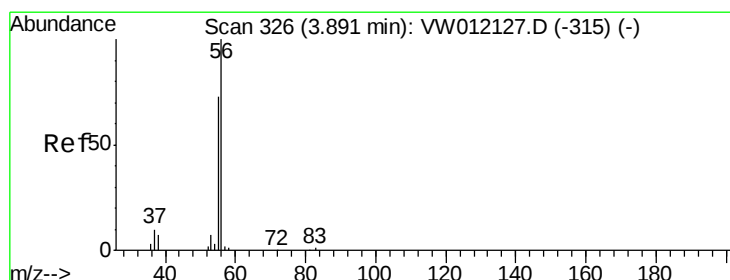
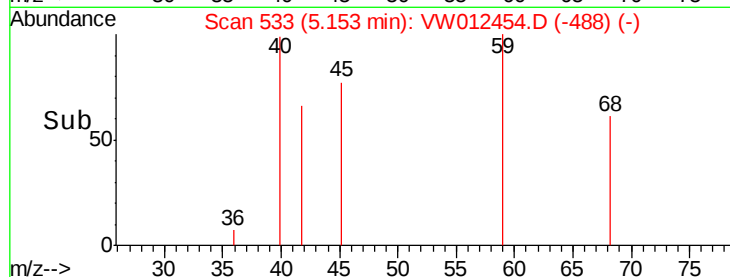
40

20

0

5.14 5.16 5.18

Time-->



#13

Acrolein

Concen: 11.469 ug/l

RT: 3.92 min Scan# 330

Delta R.T. 0.02 min

Lab File: VW012454.D

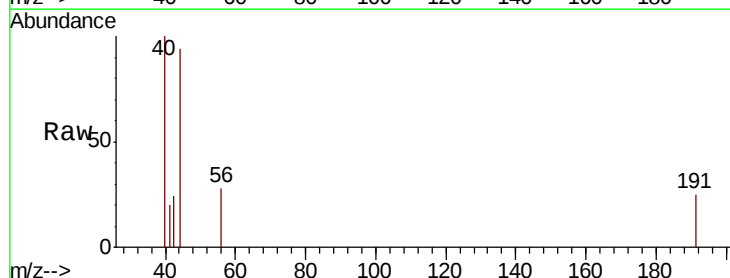
Acq: 01 Sep 2019 17:48

Tgt Ion: 56 Resp: 55

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.92

80

60

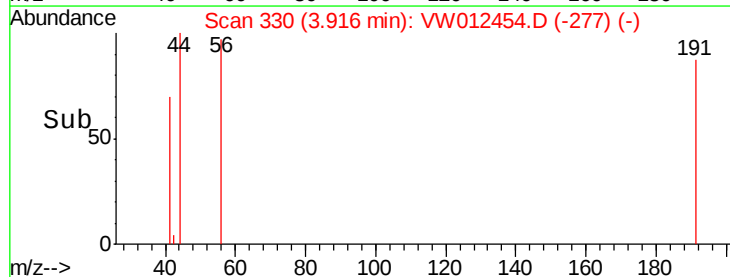
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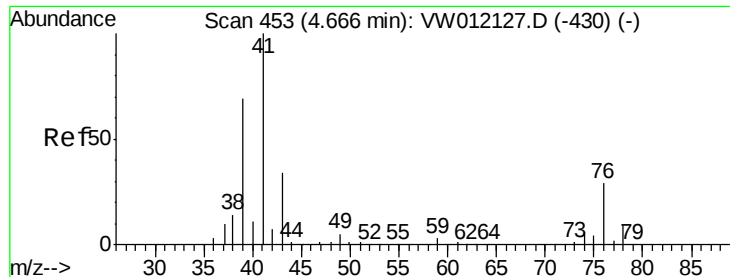
20

0

3.90 3.92

Time-->

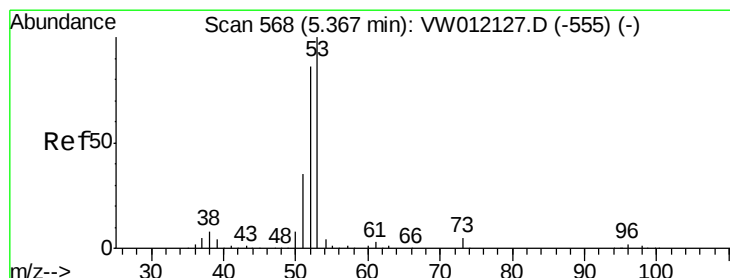
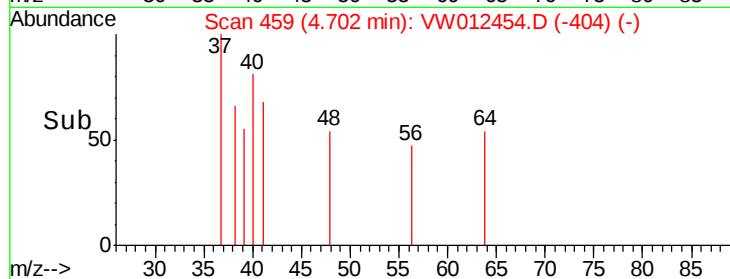
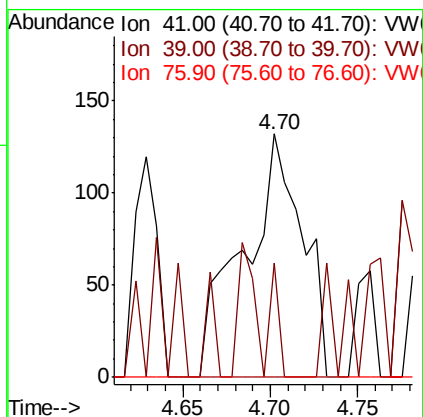
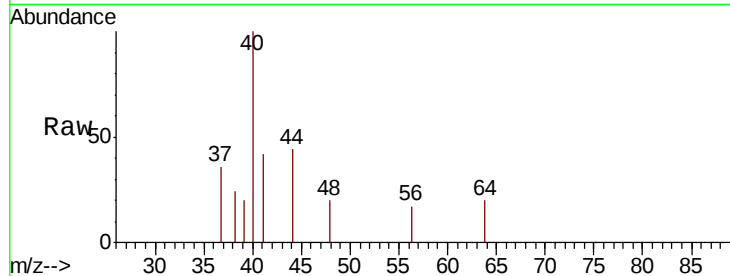




#14
 Allyl chloride
 Concen: 2.037 ug/l
 RT: 4.70 min Scan# 459
 Delta R.T. 0.04 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

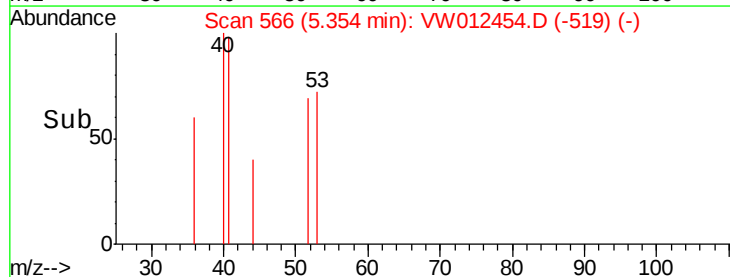
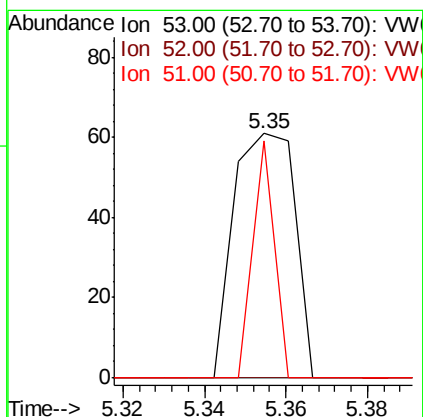
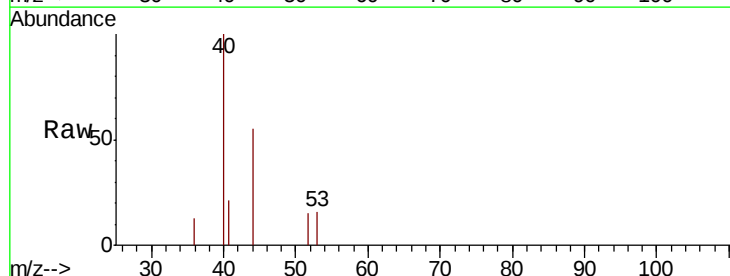
Instrument :
 MSVOA_W
 ClientSampled :
 T1-S-B4-(0)

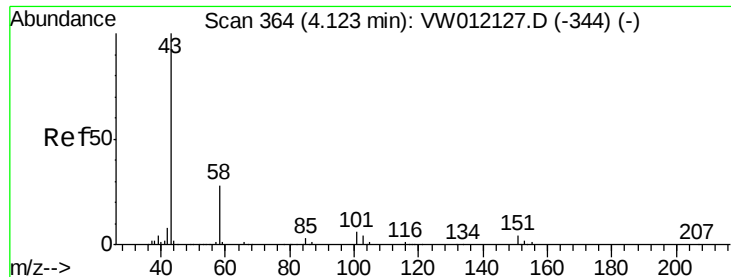
Tgt Ion: 41 Resp: 311
 Ion Ratio Lower Upper
 41 100
 39 14.8 53.4 80.2#
 76 0.0 22.1 33.1#



#15
 Acrylonitrile
 Concen: 3.258 ug/l
 RT: 5.35 min Scan# 566
 Delta R.T. -0.01 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

Tgt Ion: 53 Resp: 64
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.7 100.1#
 51 34.4 30.1 45.1





#16

Acetone

Concen: 105.413 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

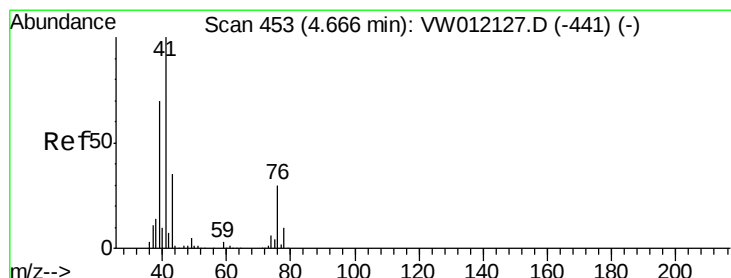
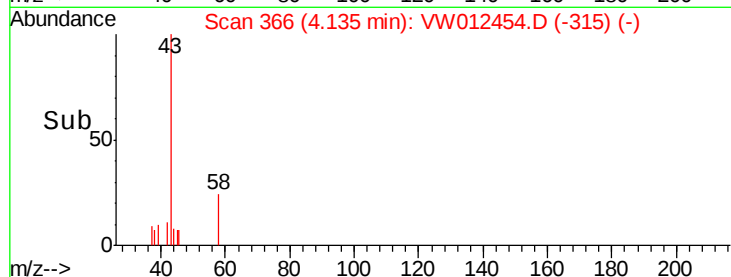
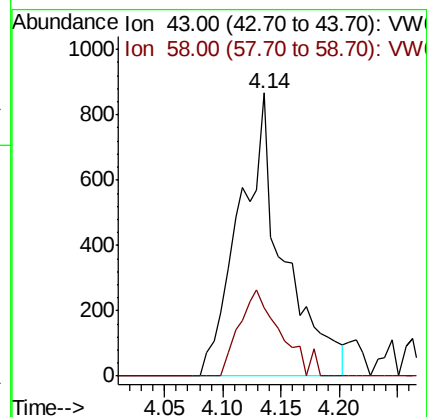
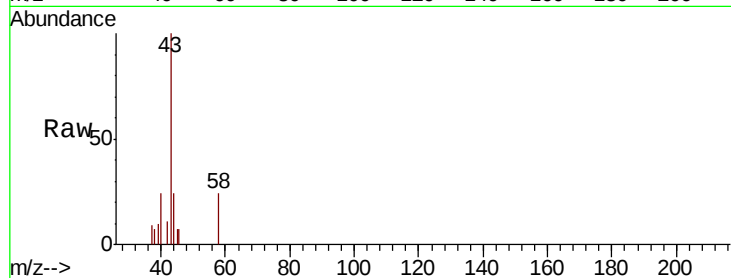
T1-S-B4-(0)

Tgt Ion: 43 Resp: 2281

Ion Ratio Lower Upper

43 100

58 24.0 22.4 33.6



#18

Methyl Acetate

Concen: 1.287 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW012454.D

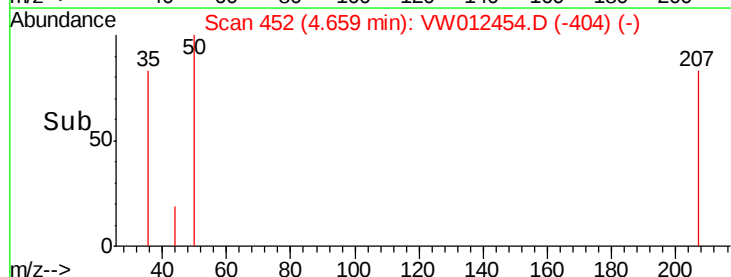
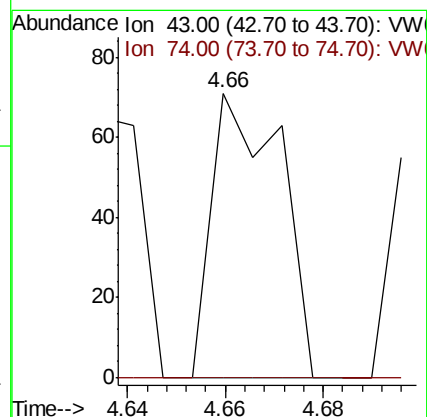
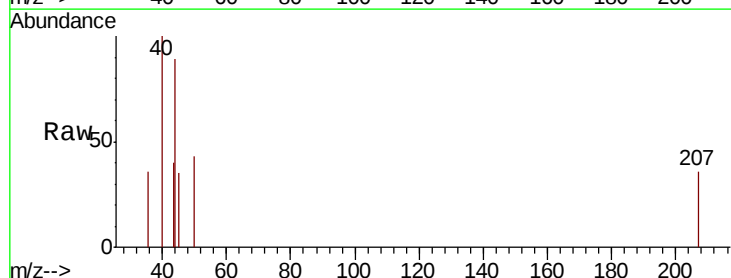
Acq: 01 Sep 2019 17:48

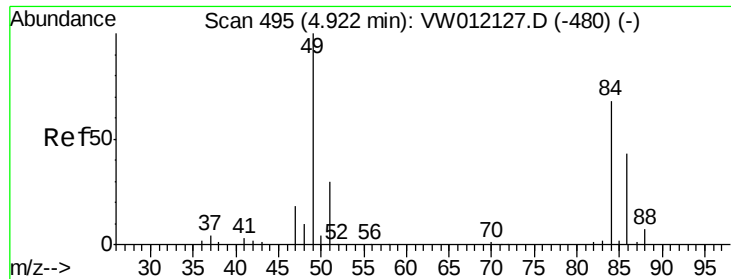
Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

74 0.0 15.7 23.5#

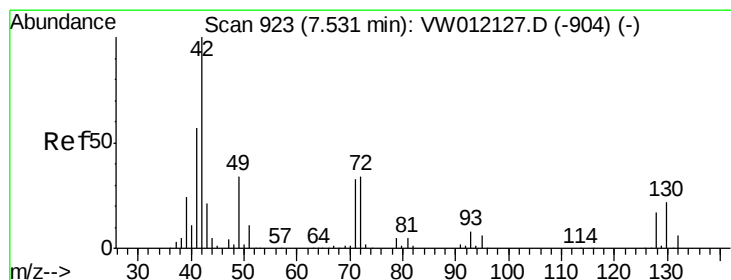
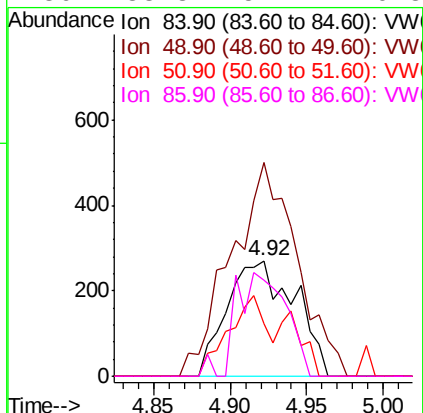
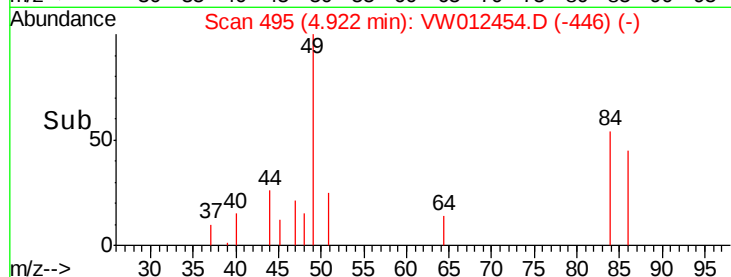
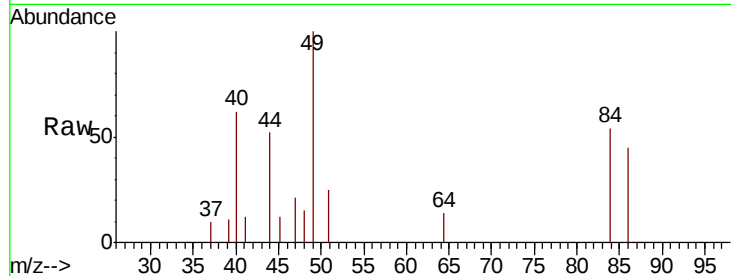




#20
Methylene Chloride
Concen: 10.159 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

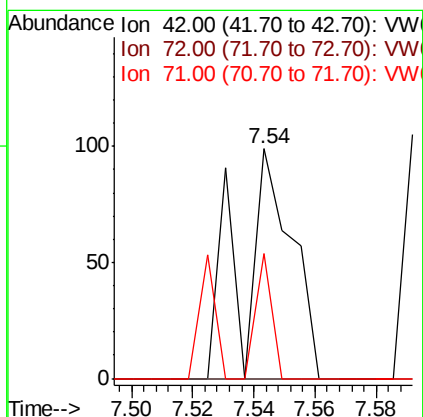
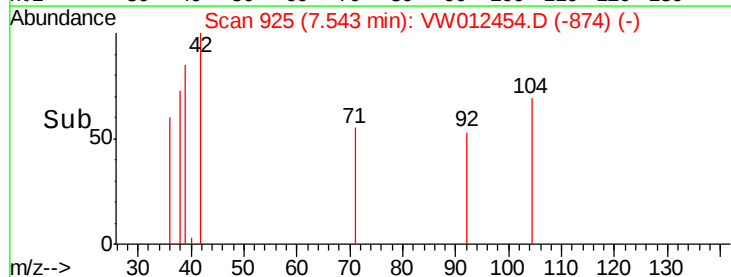
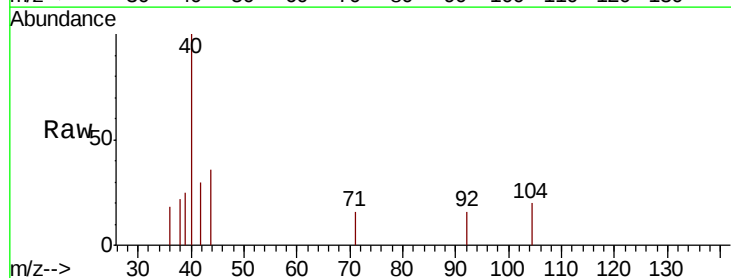
Instrument :
MSVOA_W
ClientSampleId :
T1-S-B4-(0)

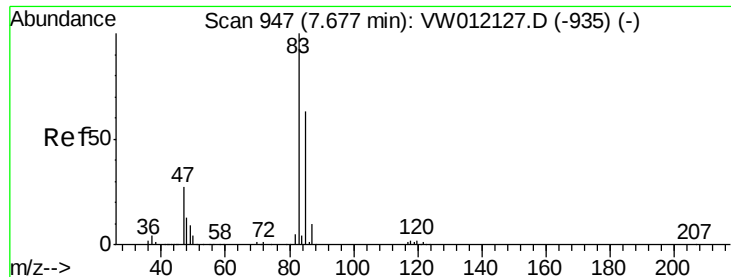
Tgt Ion: 84 Resp: 831
Ion Ratio Lower Upper
84 100
49 165.6 117.8 176.8
51 45.6 35.6 53.4
86 83.3 51.2 76.8#



#29
Tetrahydrofuran
Concen: 6.462 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

Tgt Ion: 42 Resp: 114
Ion Ratio Lower Upper
42 100
72 0.0 27.3 40.9#
71 17.5 25.5 38.3#

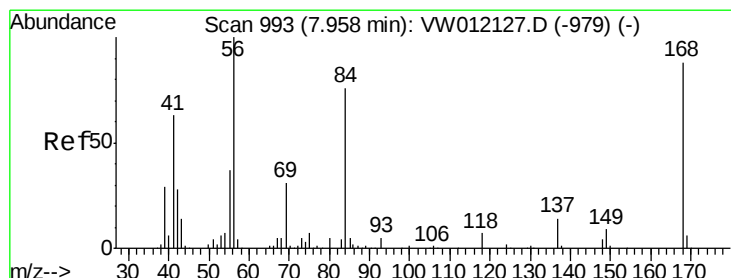
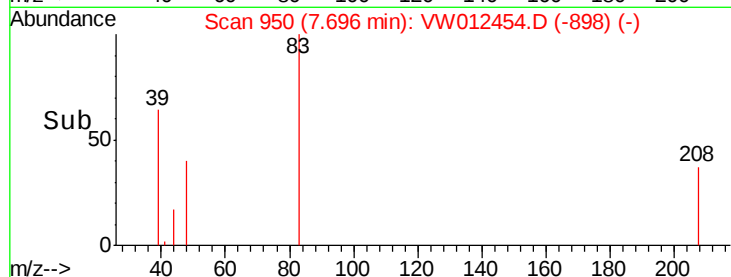
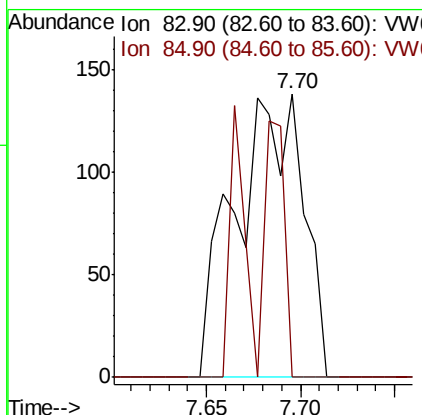
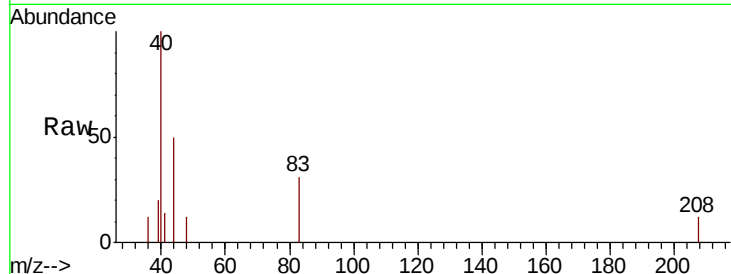




#30
Chloroform
Concen: 2.447 ug/l
RT: 7.70 min Scan# 950
Delta R.T. 0.02 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

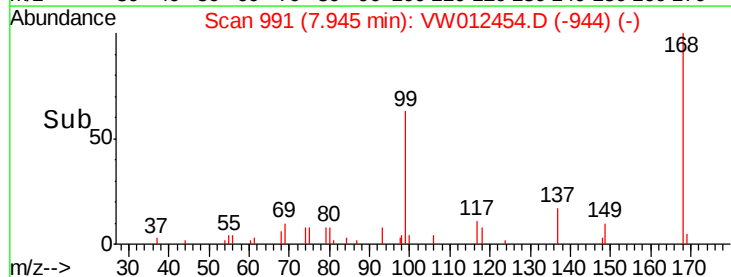
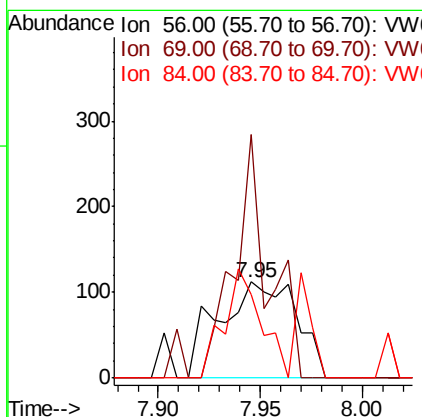
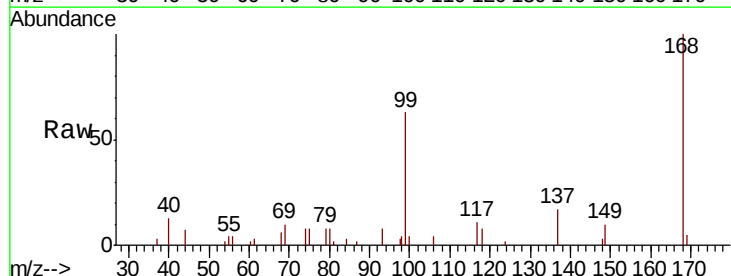
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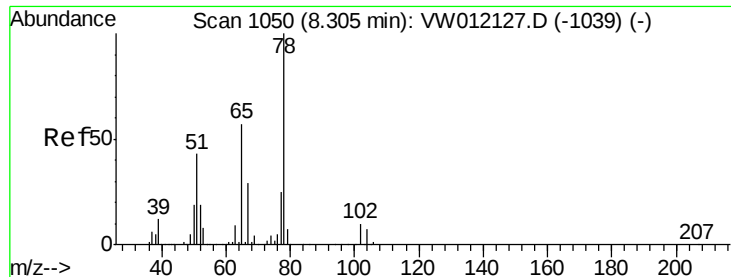
Tgt Ion: 83 Resp: 345
Ion Ratio Lower Upper
83 100
85 0.0 50.6 76.0#



#31
Cyclohexane
Concen: 1.948 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

Tgt Ion: 56 Resp: 297
Ion Ratio Lower Upper
56 100
69 253.6 24.9 37.3#
84 87.5 60.6 90.8

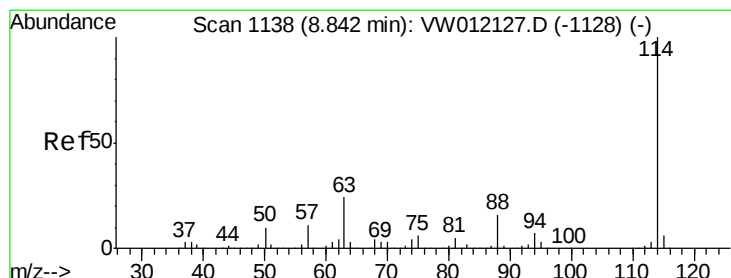
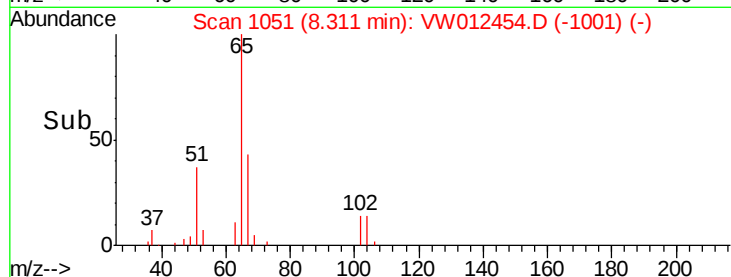
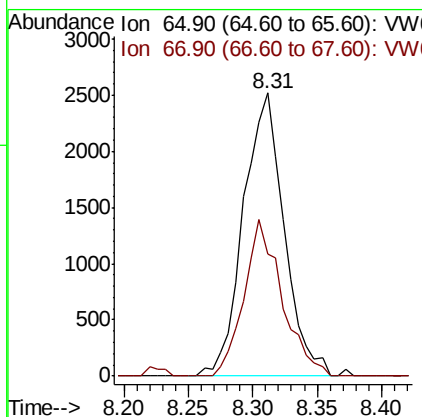
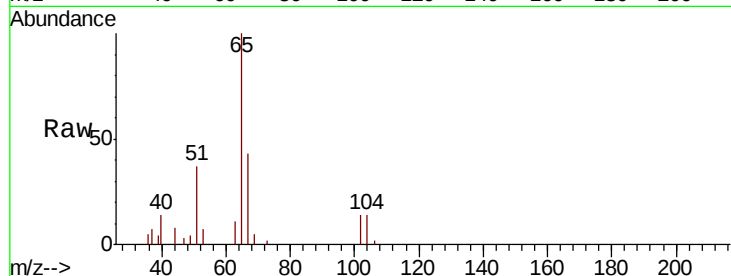




#33
 1,2-Dichloroethane-d4
 Concen: 64.972 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

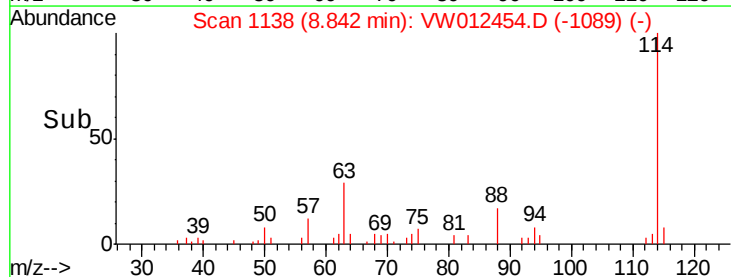
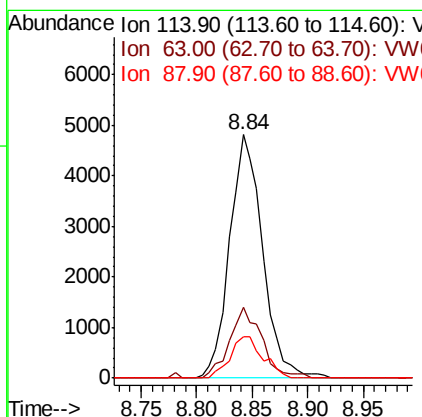
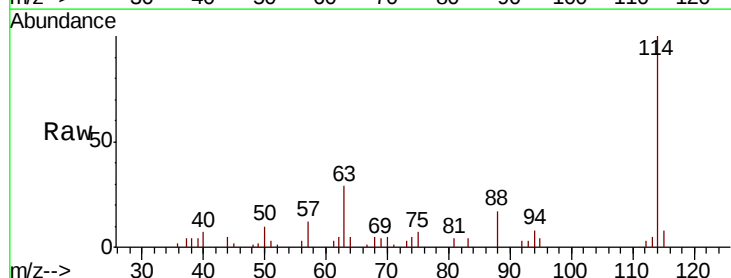
Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-B4-(0)

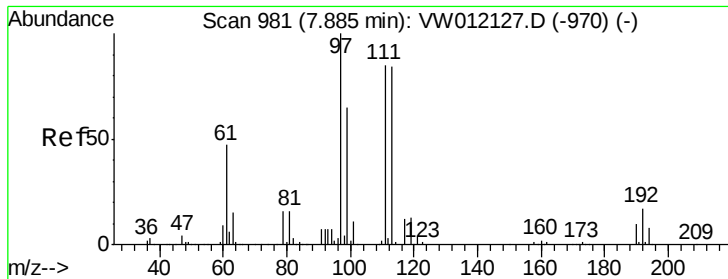
Tgt Ion: 65 Resp: 5500
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

Tgt Ion: 114 Resp: 9881
 Ion Ratio Lower Upper
 114 100
 63 28.9 0.0 48.6
 88 17.0 0.0 32.2

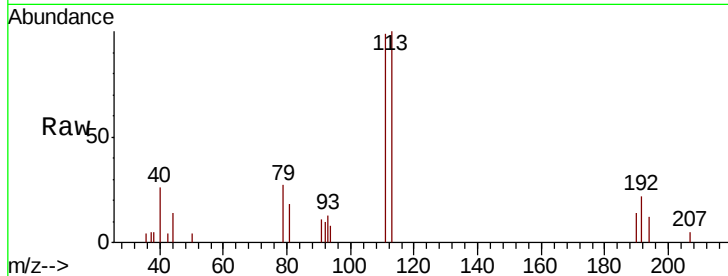




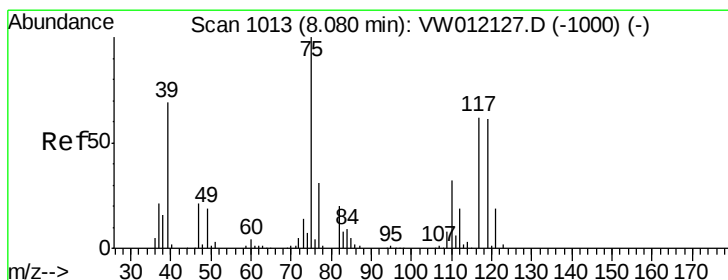
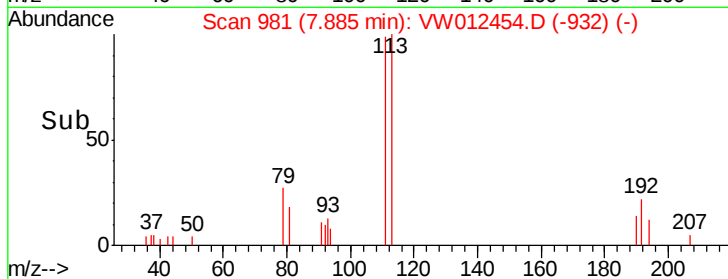
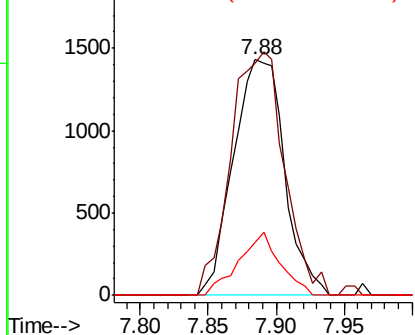
#35
 Dibromofluoromethane
 Concen: 63.716 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-B4-(0)

Tgt Ion: 113 Resp: 3758
 Ion Ratio Lower Upper
 113 100
 111 108.1 82.7 124.1
 192 21.6 16.2 24.2

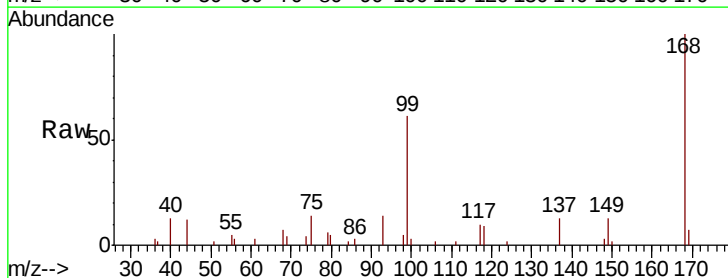


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

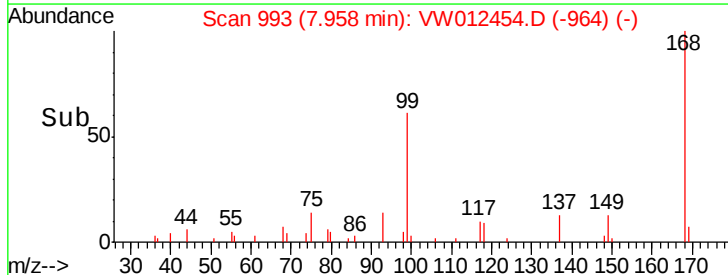
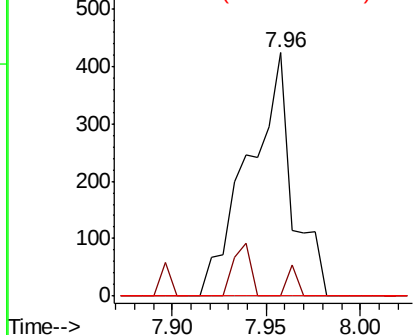


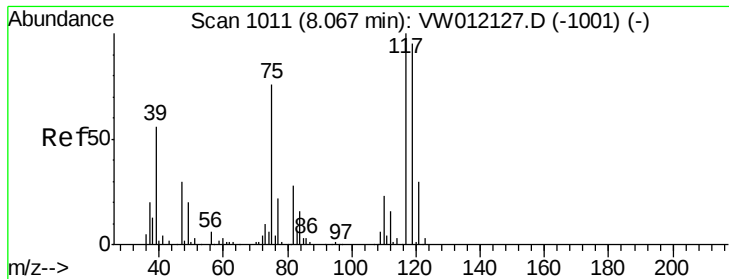
#36
 1,1-Dichloropropene
 Concen: 6.728 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

Tgt Ion: 75 Resp: 687
 Ion Ratio Lower Upper
 75 100
 110 2.8 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

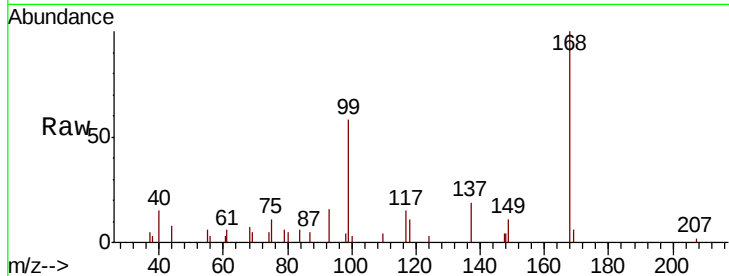




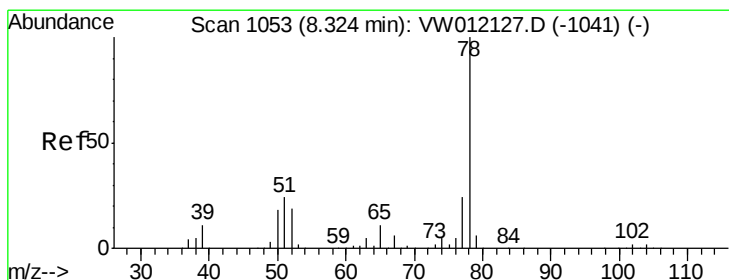
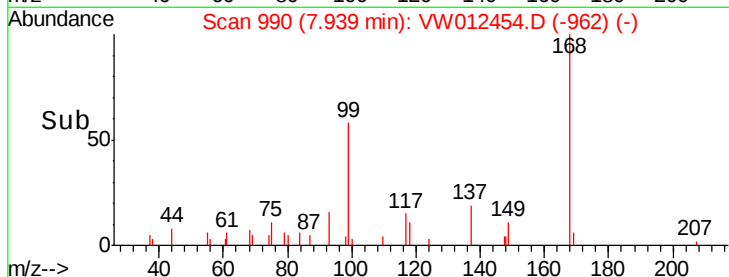
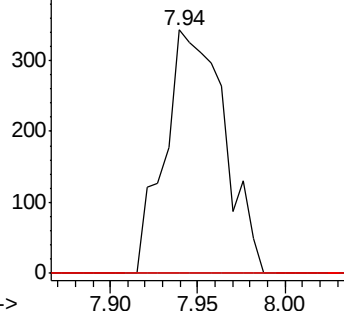
#38
Carbon Tetrachloride
Concen: 9.256 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

Instrument :
MSVOA_W
ClientSampled :
T1-S-B4-(0)

Tgt Ion: 117 Resp: 818
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 23.8 35.8#

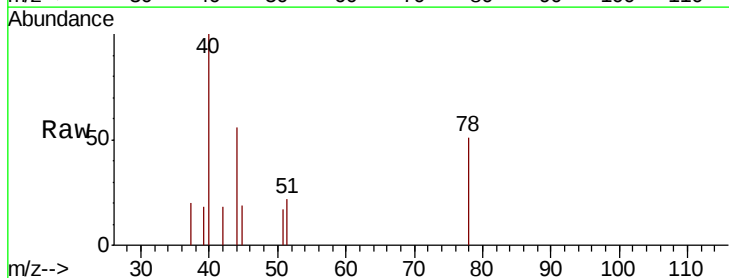


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

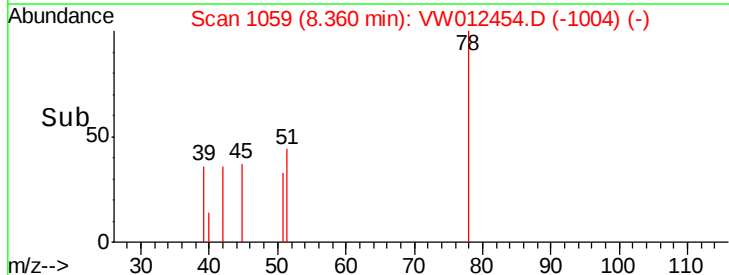
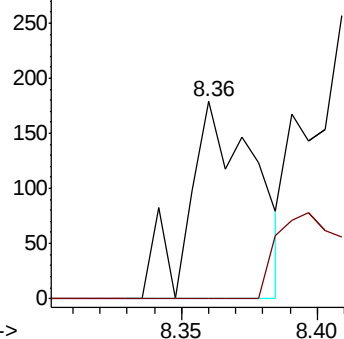


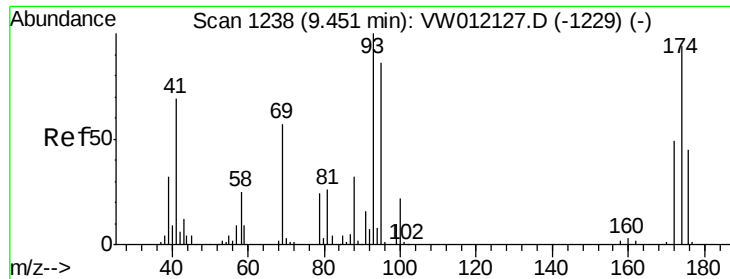
#40
Benzene
Concen: 1.083 ug/l
RT: 8.36 min Scan# 1059
Delta R.T. 0.04 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

Tgt Ion: 78 Resp: 302
Ion Ratio Lower Upper
78 100
77 0.0 19.5 29.3#



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





#49

1,4-Dioxane

Concen: 60.653 ug/l

RT: 9.32 min Scan# 1216

Delta R.T. -0.13 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

T1-S-B4-(0)

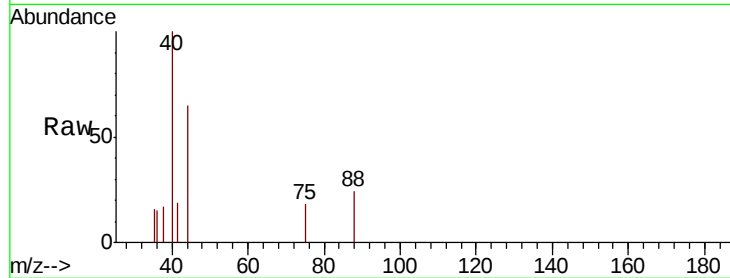
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 74.2 32.9 49.3#

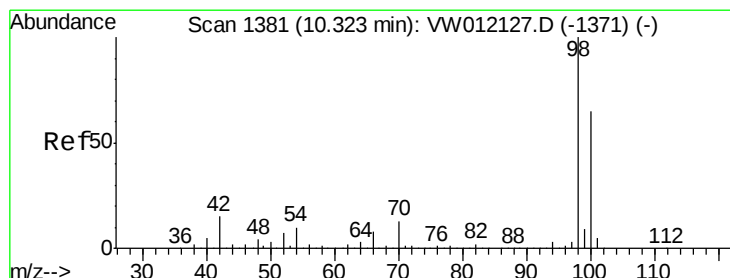
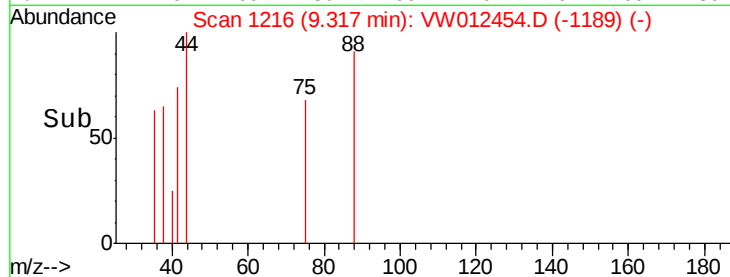
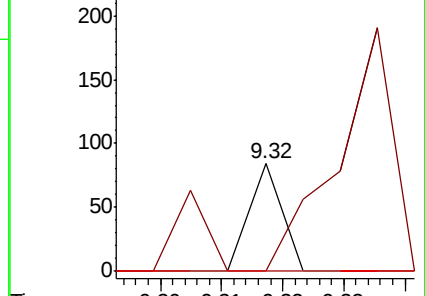
58 0.0 71.0 106.4#



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: 47.310 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012454.D

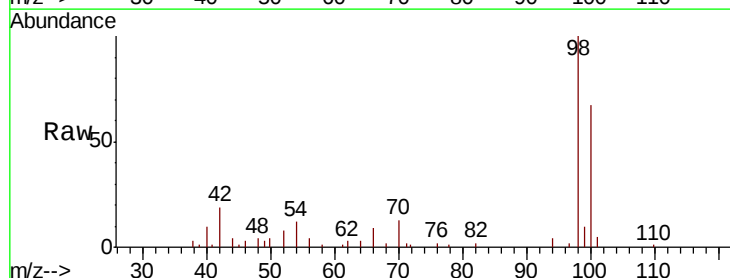
Acq: 01 Sep 2019 17:48

Tgt Ion: 98 Resp: 11314

Ion Ratio Lower Upper

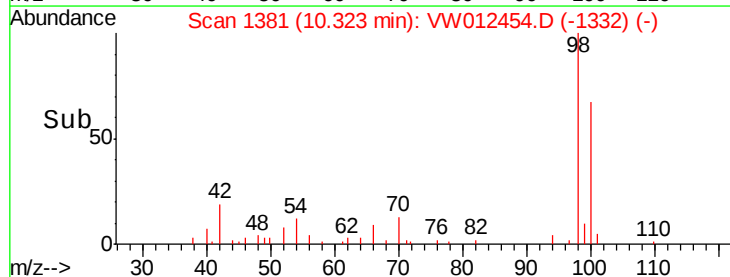
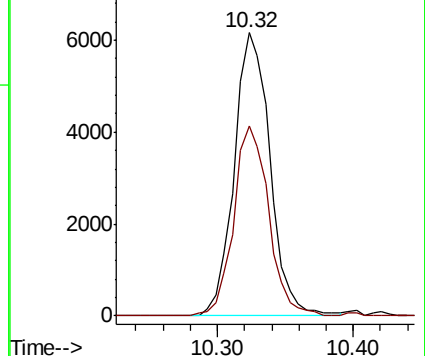
98 100

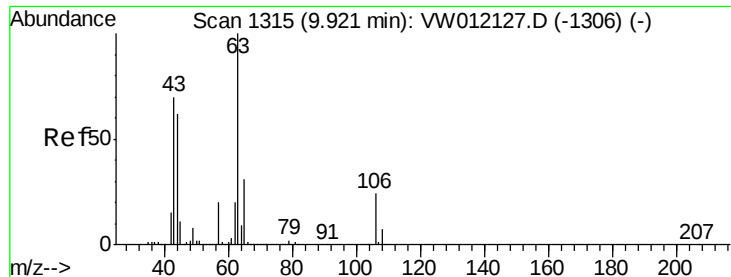
100 65.3 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

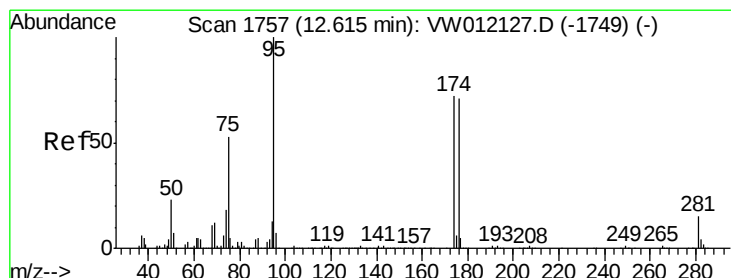
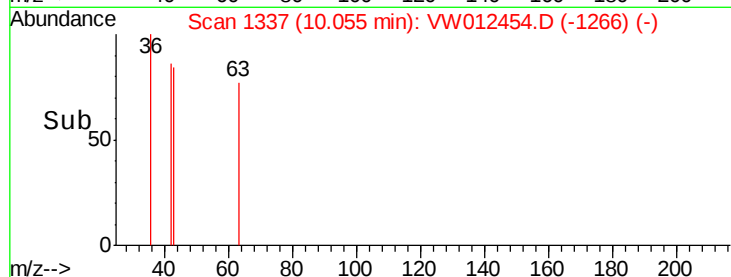
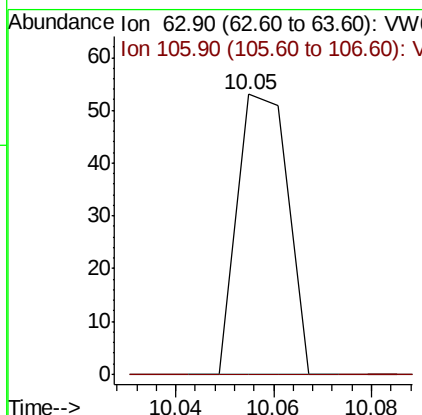
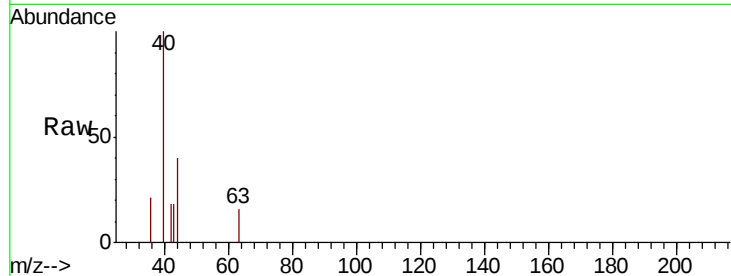




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.077 ug/l
 RT: 10.05 min Scan# 1337
 Delta R.T. 0.13 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

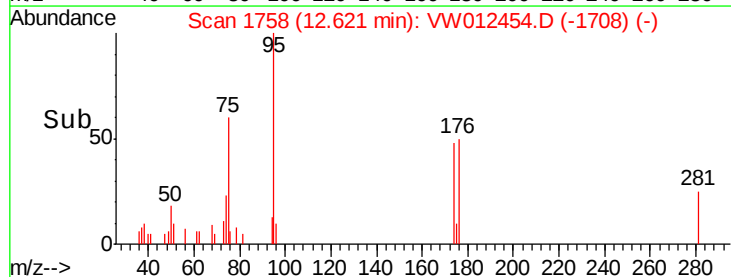
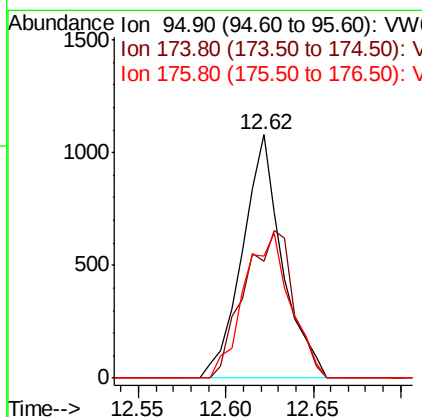
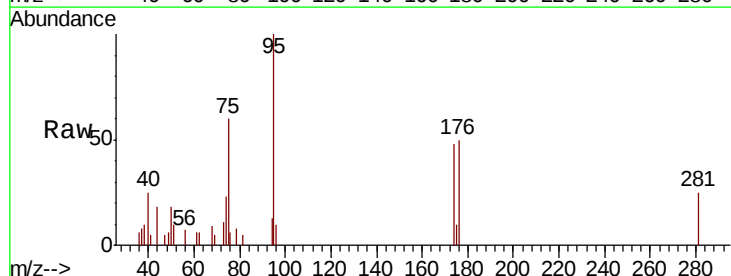
Instrument :
 MSVOA_W
 ClientSampleId :
 T1-S-B4-(0)

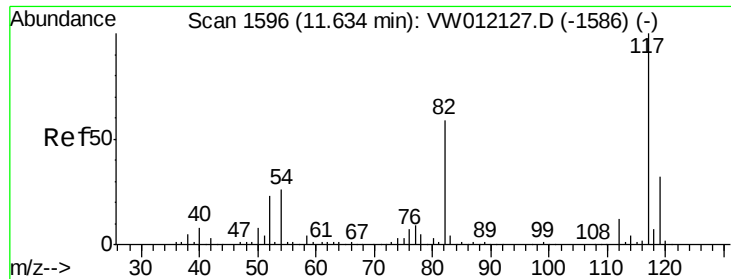
Tgt Ion: 63 Resp: 38
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.8 29.8#



#62
 4-Bromofluorobenzene
 Concen: 20.297 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VW012454.D
 Acq: 01 Sep 2019 17:48

Tgt Ion: 95 Resp: 1711
 Ion Ratio Lower Upper
 95 100
 174 75.5 0.0 150.8
 176 70.1 0.0 148.6

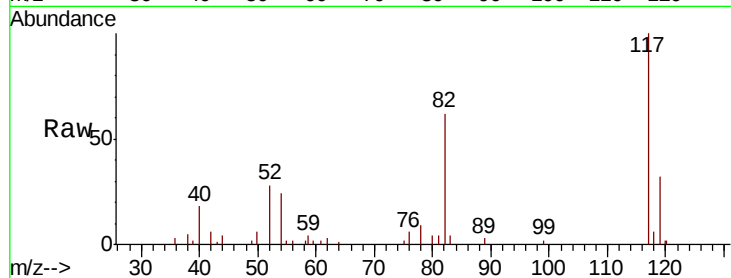




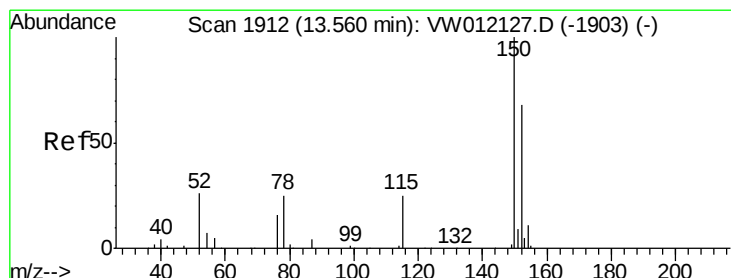
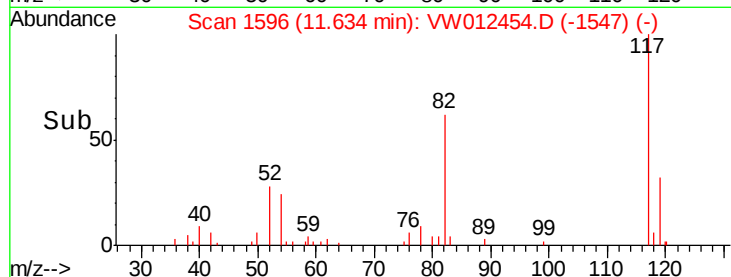
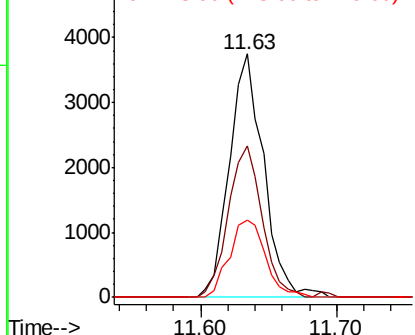
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

Instrument :
MSVOA_W
ClientSampleId :
T1-S-B4-(0)

Tgt Ion:117 Resp: 6585
Ion Ratio Lower Upper
117 100
82 62.4 47.4 71.2
119 31.7 25.4 38.2

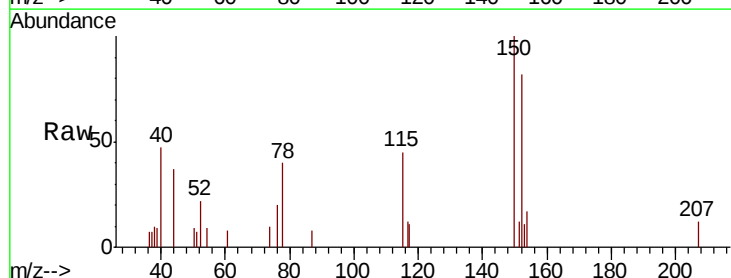


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

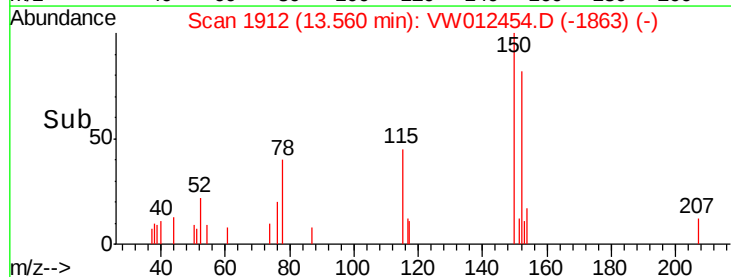
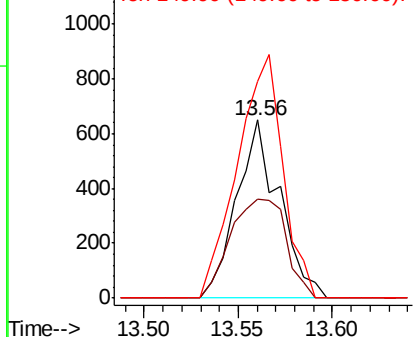


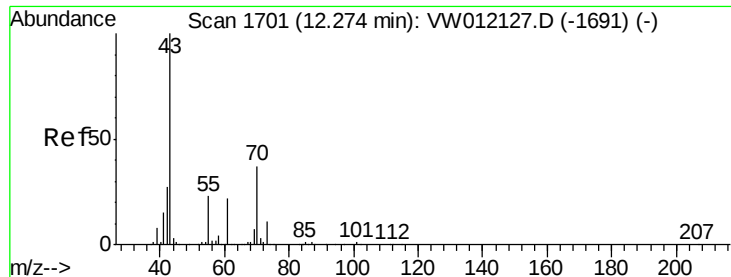
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012454.D
Acq: 01 Sep 2019 17:48

Tgt Ion:152 Resp: 1022
Ion Ratio Lower Upper
152 100
115 72.4 30.1 90.3
150 145.7 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-amyI acetate

Concen: 1.167 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

T1-S-B4-(0)

Tgt Ion: 43 Resp: 27

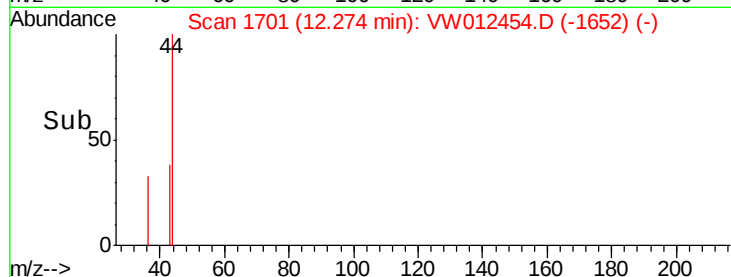
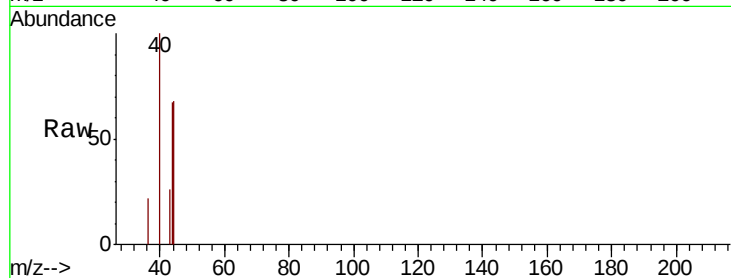
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.6#

61 0.0 17.3 25.9#

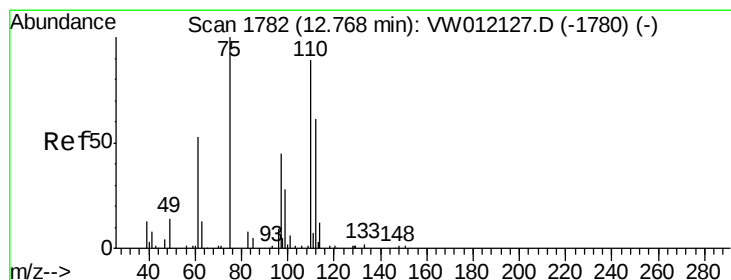
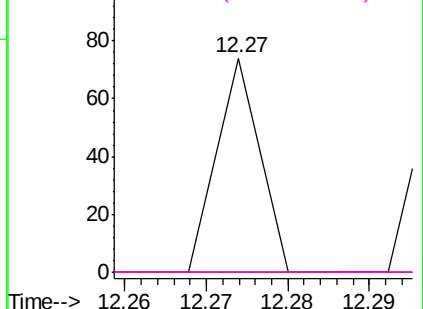


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#76

1,2,3-Trichloropropane

Concen: 111.518 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012454.D

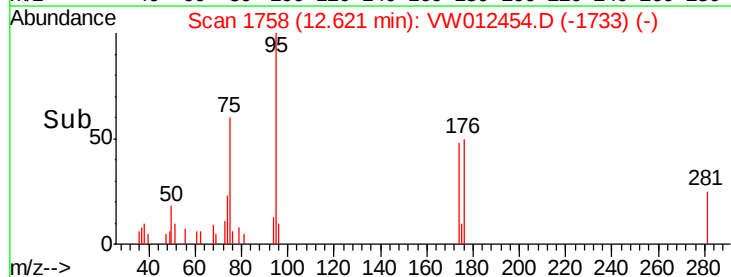
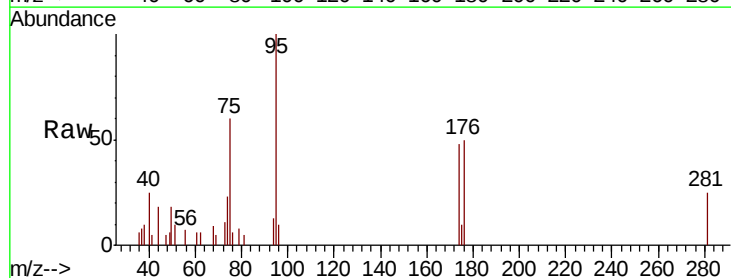
Acq: 01 Sep 2019 17:48

Tgt Ion: 75 Resp: 1110

Ion Ratio Lower Upper

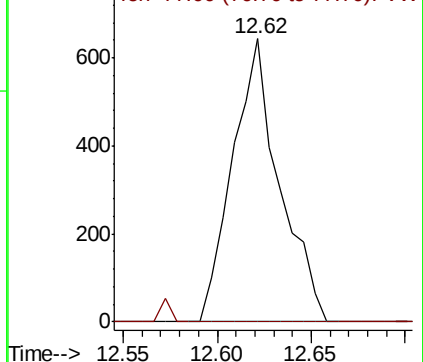
75 100

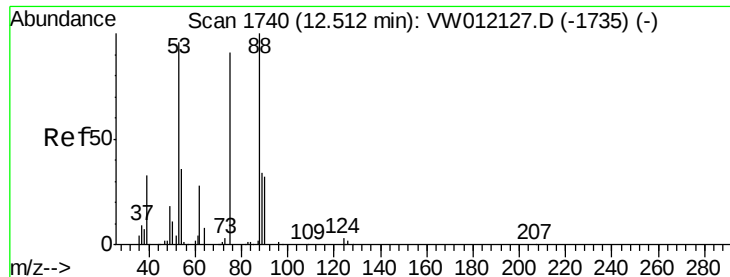
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 244.507 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

Instrument :

MSVOA_W

ClientSampleId :

T1-S-B4-(0)

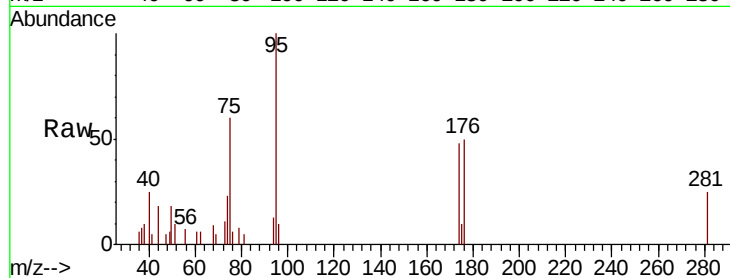
Tgt Ion: 75 Resp: 1110

Ion Ratio Lower Upper

75 100

53 3.8 89.4 134.0#

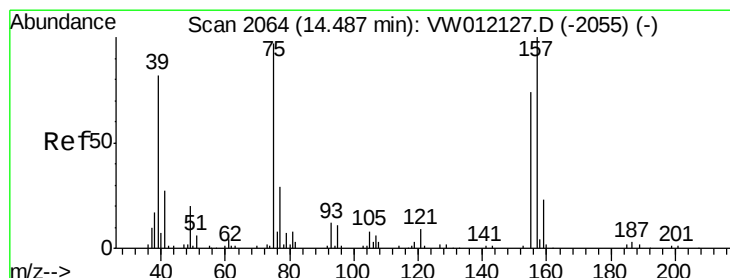
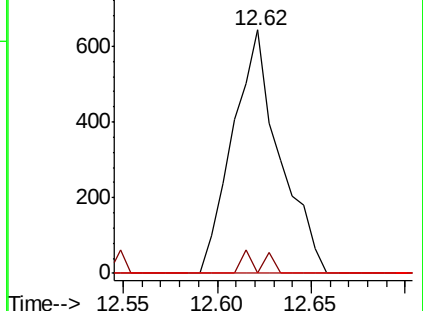
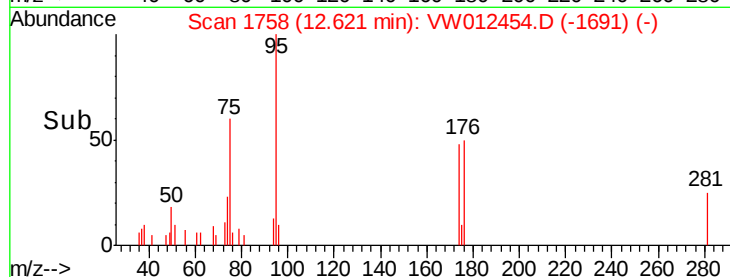
89 0.0 34.5 51.7#



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: 8.028 ug/l

RT: 14.41 min Scan# 2052

Delta R.T. -0.07 min

Lab File: VW012454.D

Acq: 01 Sep 2019 17:48

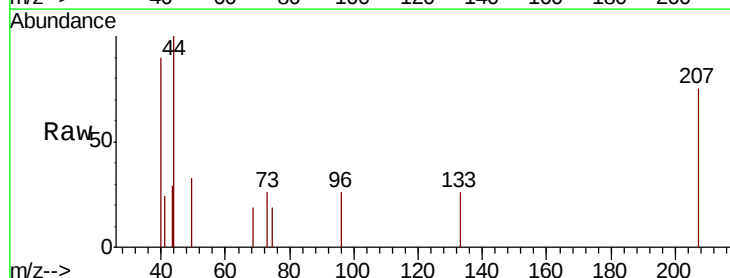
Tgt Ion: 75 Resp: 19

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

