

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081719\
 Data File : VW011963.D
 Acq On : 16 Aug 2019 14:26
 Operator : SY/VA
 Sample : K4339-12RE
 Misc : 5.84G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T8-B1-(4)RE

Quant Time: Aug 17 04:59:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	182133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	314399	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	213162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	53726	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	127018	60.73	ug/l	0.00
Spiked Amount			Recovery	=	121.46%	
35) Dibromofluoromethane	7.88	113	96999	54.99	ug/l	0.00
Spiked Amount			Recovery	=	109.98%	
50) Toluene-d8	10.32	98	344380	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
62) 4-Bromofluorobenzene	12.62	95	86298	33.52	ug/l	0.00
Spiked Amount			Recovery	=	67.04%	

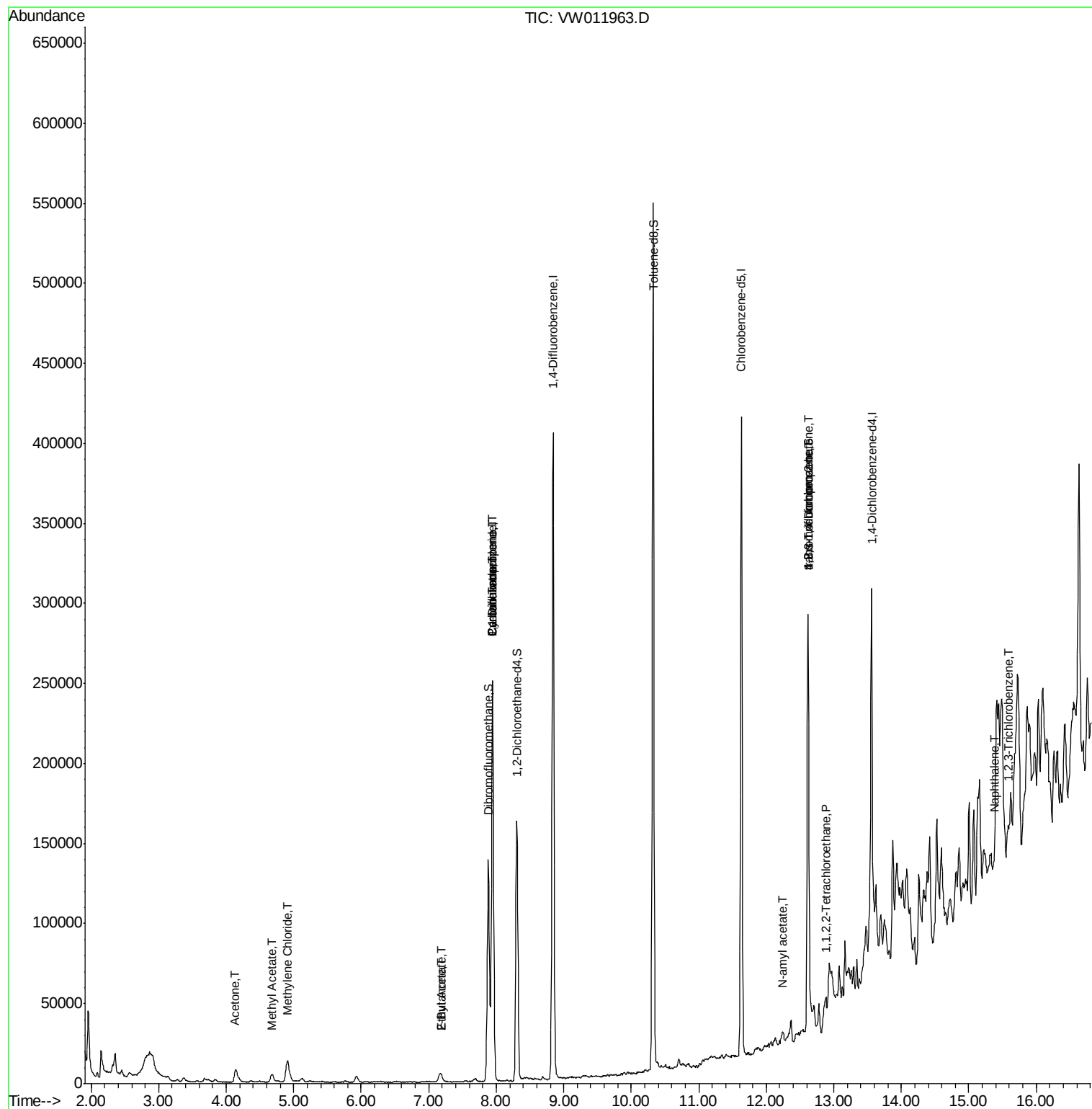
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	254	Below Cal	#	72
16) Acetone	4.14	43	16395	24.644	ug/l	100
18) Methyl Acetate	4.67	43	10413	6.967	ug/l	99
20) Methylene Chloride	4.91	84	10690	4.659	ug/l	93
25) 2-Butanone	7.19	43	5798	6.660	ug/l #	78
31) Cyclohexane	7.95	56	5000	1.279	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	15670	4.793	ug/l #	51
37) Ethyl Acetate	7.19	43	5798	3.083	ug/l #	77
38) Carbon Tetrachloride	7.95	117	18384	6.569	ug/l #	17
74) N-amyl acetate	12.25	43	1416	1.128	ug/l #	22
75) 1,1,2,2-Tetrachloroethane	12.88	83	1019	1.352	ug/l	75
76) 1,2,3-Trichloropropane	12.62	75	44436	78.166	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	44436	180.145	ug/l #	7
95) Naphthalene	15.37	128	1553	2.768	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.58	180	1155	1.217	ug/l #	27

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

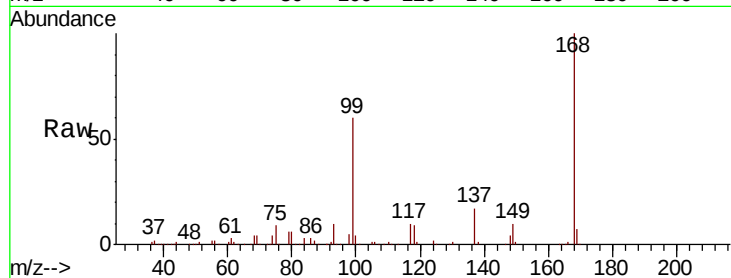
T8-B1-(4)RE

Tgt Ion:168 Resp: 182133

Ion Ratio Lower Upper

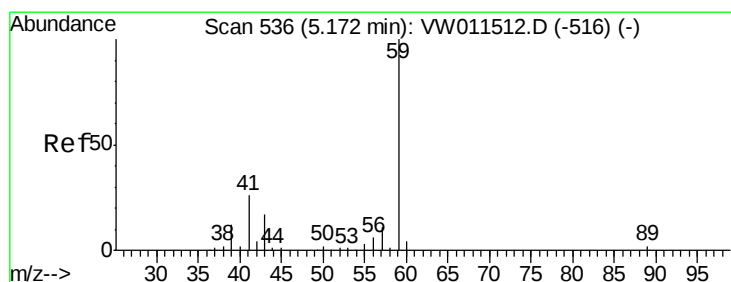
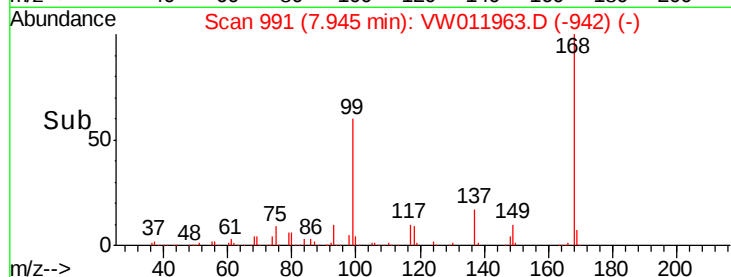
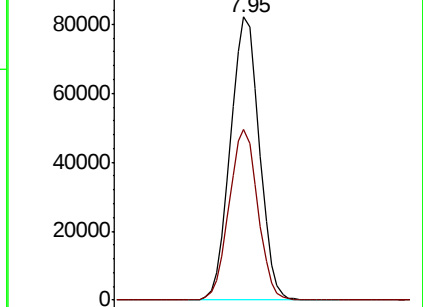
168 100

99 60.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 542

Delta R.T. 0.04 min

Lab File: VW011963.D

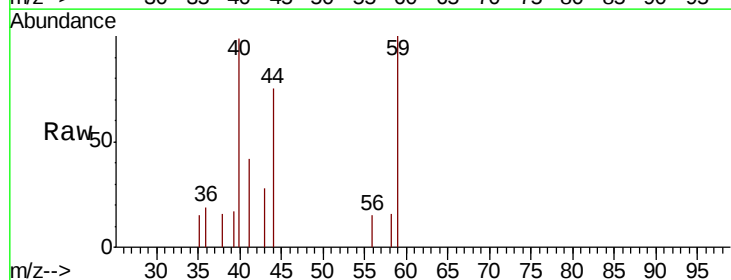
Acq: 16 Aug 2019 14:26

Tgt Ion: 59 Resp: 254

Ion Ratio Lower Upper

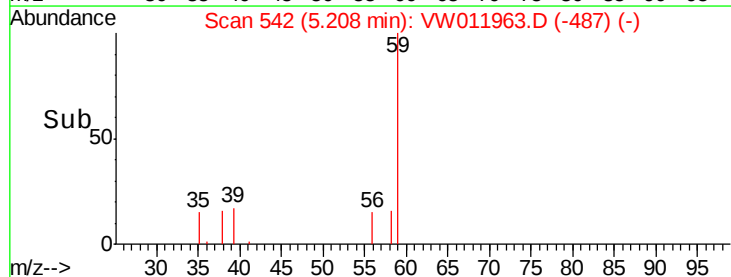
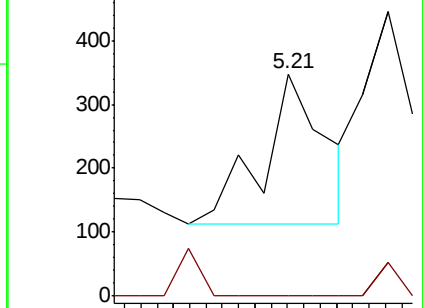
59 100

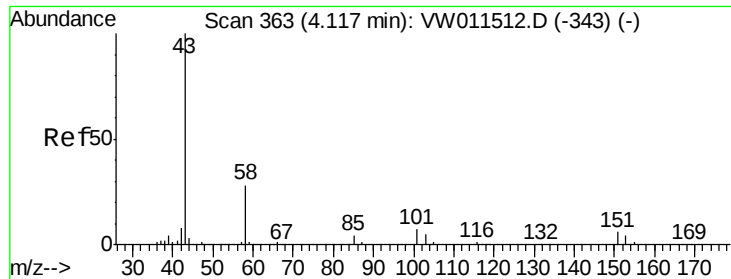
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 24.644 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

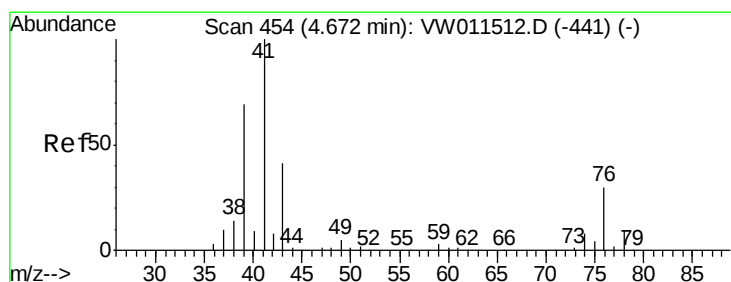
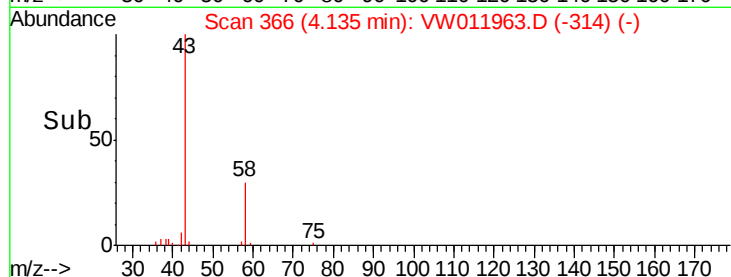
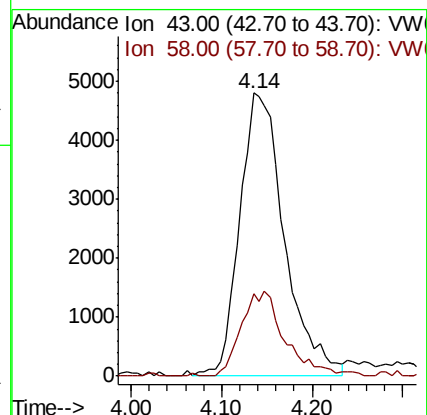
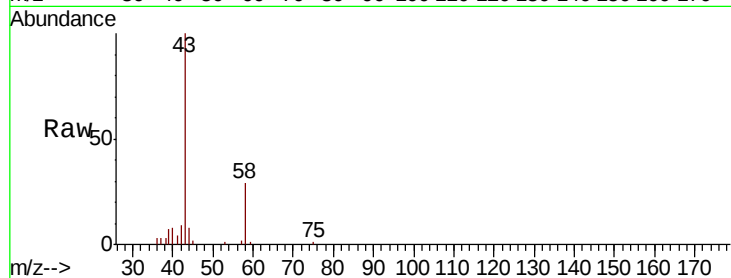
T8-B1-(4)RE

Tgt Ion: 43 Resp: 16395

Ion Ratio Lower Upper

43 100

58 27.8 22.3 33.5



#18

Methyl Acetate

Concen: 6.967 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW011963.D

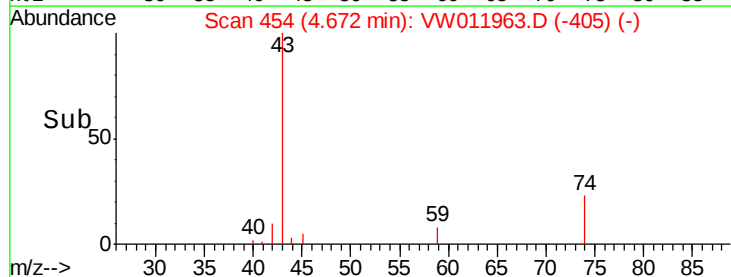
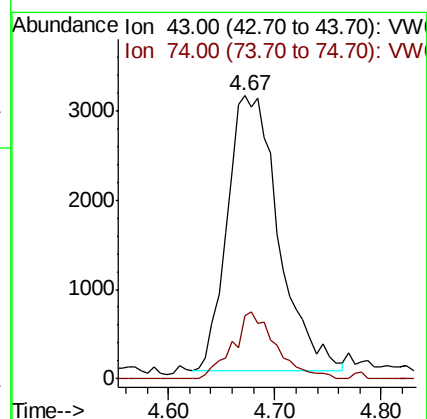
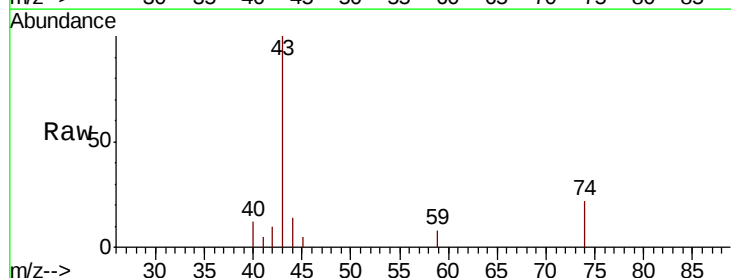
Acq: 16 Aug 2019 14:26

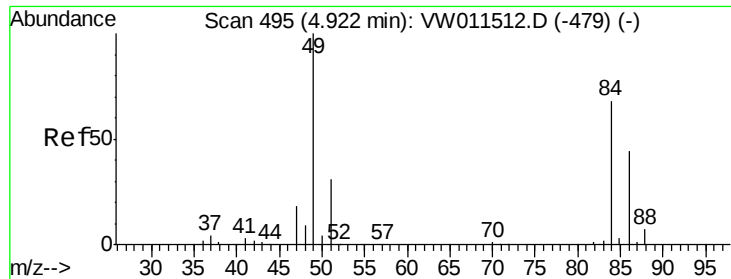
Tgt Ion: 43 Resp: 10413

Ion Ratio Lower Upper

43 100

74 20.6 15.9 23.9

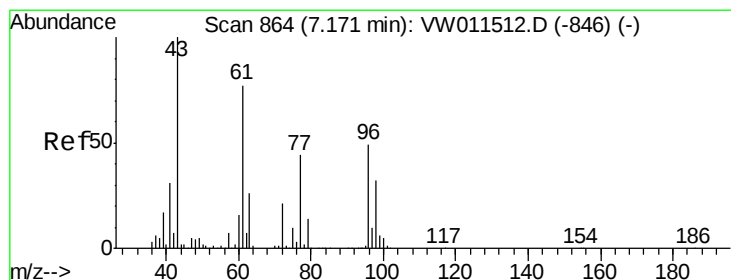
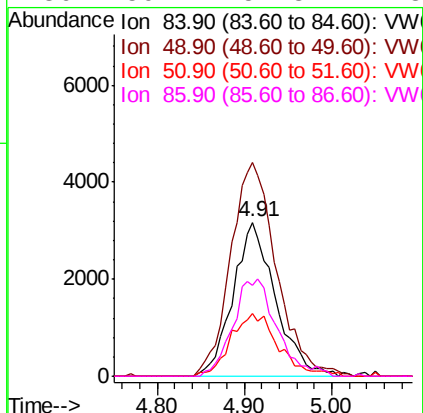
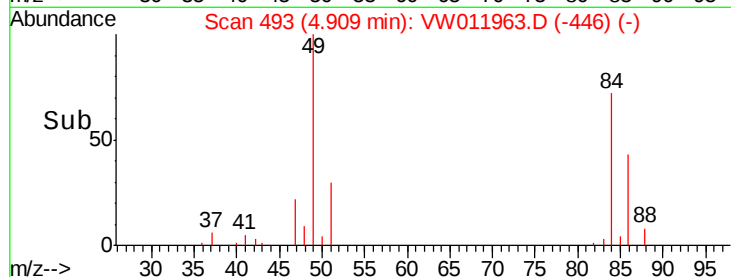
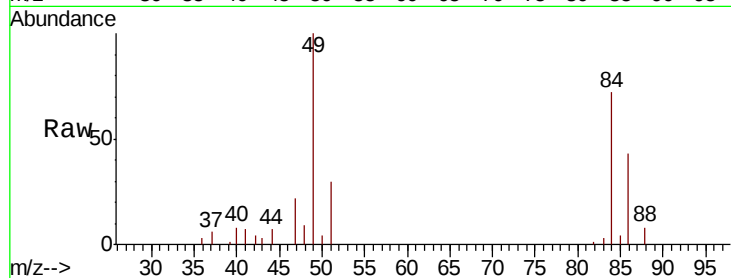




#20
Methylene Chloride
Concen: 4.659 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011963.D
Acq: 16 Aug 2019 14:26

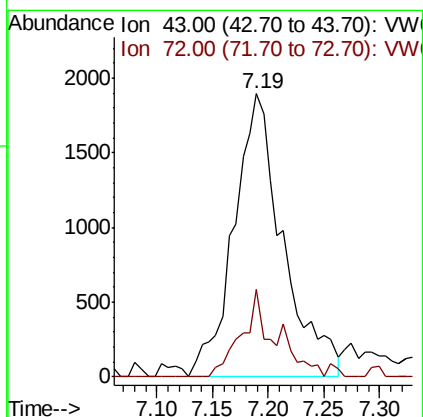
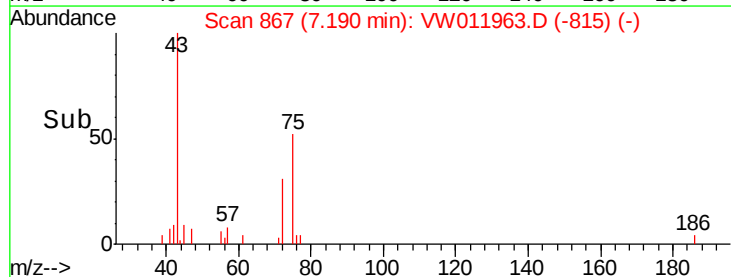
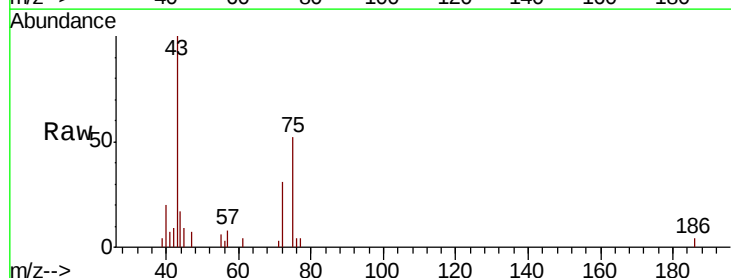
Instrument :
MSVOA_W
ClientSampleId :
T8-B1-(4)RE

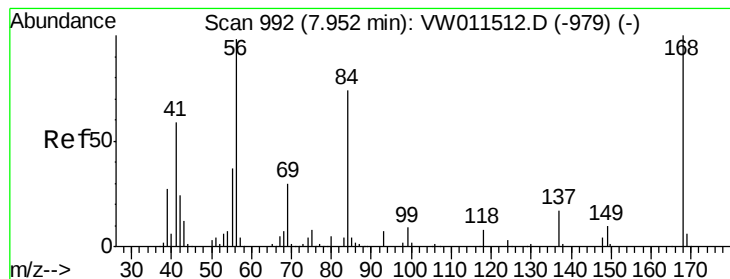
Tgt Ion: 84 Resp: 10690
Ion Ratio Lower Upper
84 100
49 138.5 117.8 176.6
51 41.0 37.0 55.4
86 59.1 51.8 77.8



#25
2-Butanone
Concen: 6.660 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.02 min
Lab File: VW011963.D
Acq: 16 Aug 2019 14:26

Tgt Ion: 43 Resp: 5798
Ion Ratio Lower Upper
43 100
72 30.9 16.6 24.8#





#31

Cyclohexane

Concen: 1.279 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

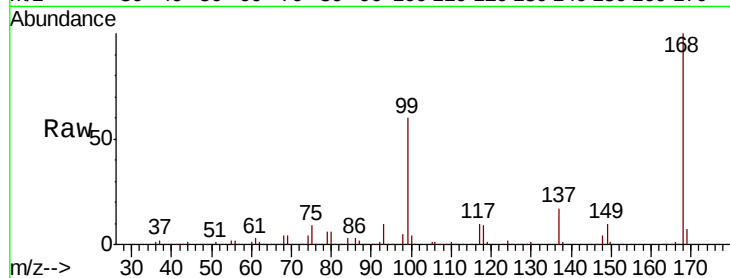
Tgt Ion: 56 Resp: 5000

Ion Ratio Lower Upper

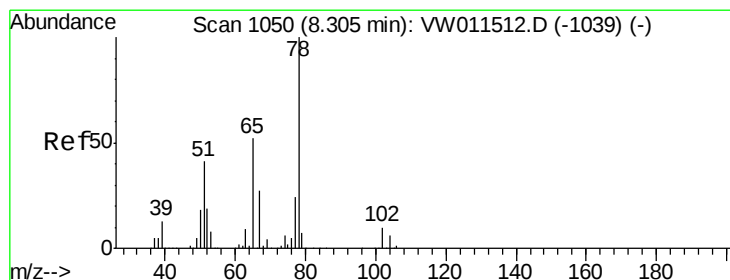
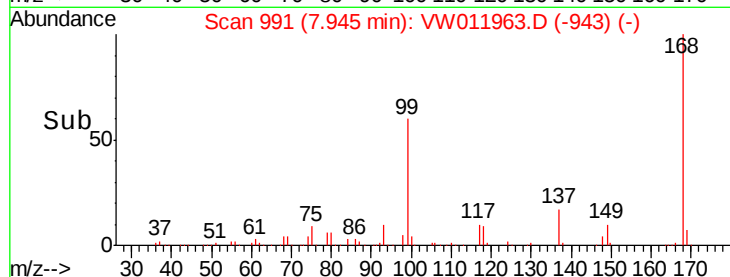
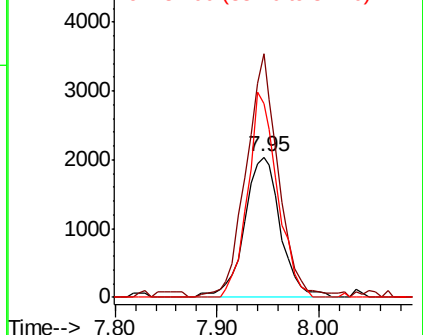
56 100

69 173.7 24.3 36.5#

84 138.1 60.4 90.6#



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: 60.734 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011963.D

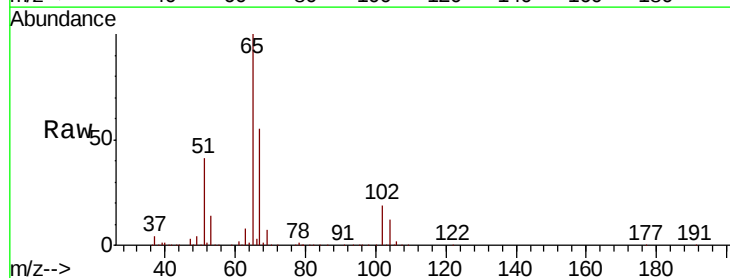
Acq: 16 Aug 2019 14:26

Tgt Ion: 65 Resp: 127018

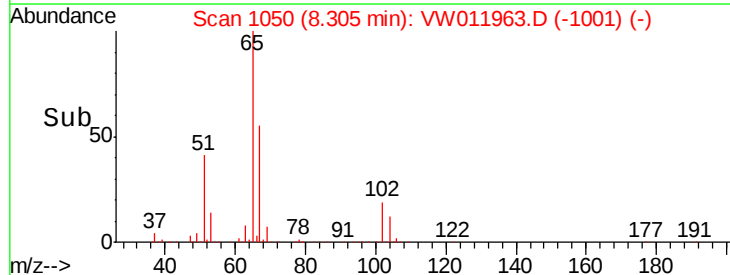
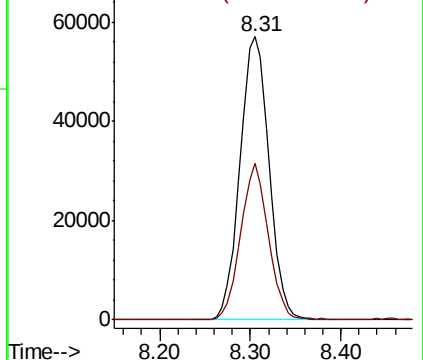
Ion Ratio Lower Upper

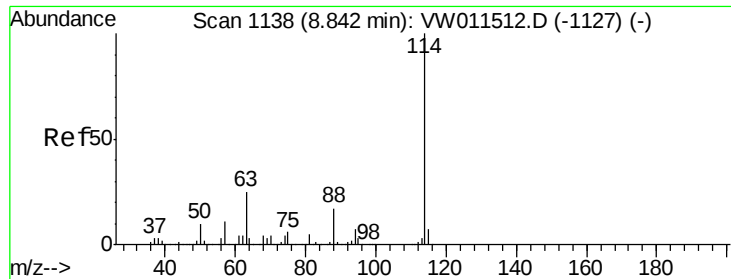
65 100

67 52.8 0.0 105.2



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

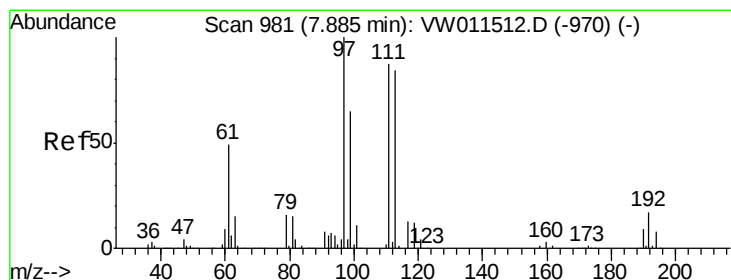
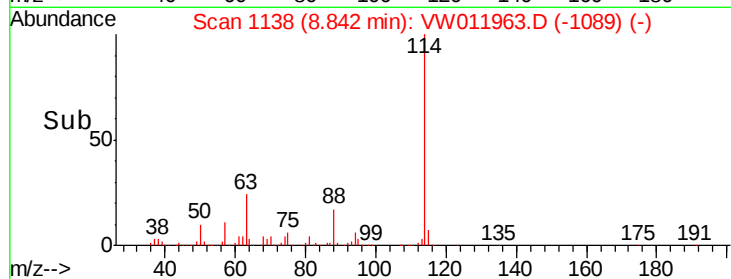
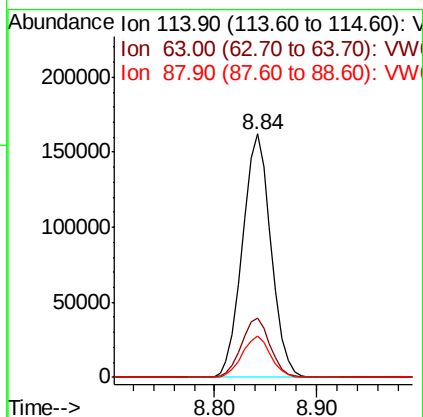
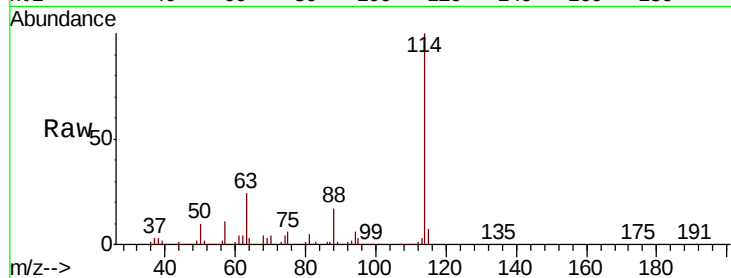




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011963.D
 Acq: 16 Aug 2019 14:26

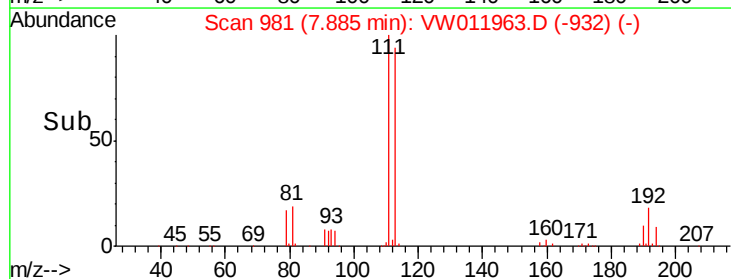
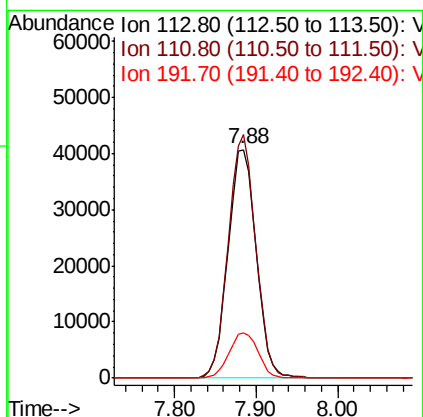
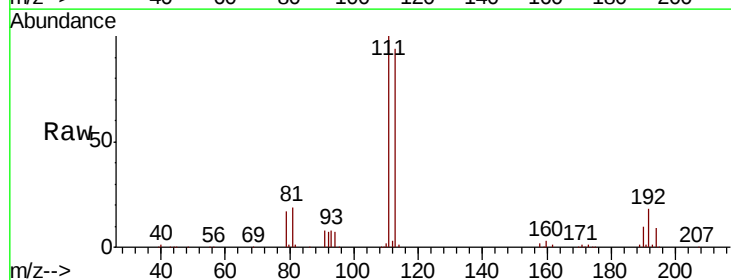
Instrument :
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 T8-B1-(4)RE

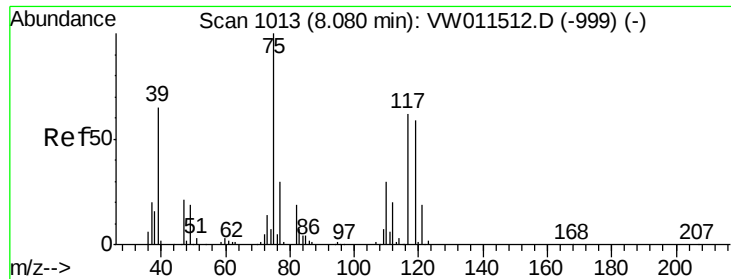
Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	49.2
88	17.0	0.0	33.8



#35
 Dibromofluoromethane
 Concen: 54.993 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011963.D
 Acq: 16 Aug 2019 14:26

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.7	124.1
192	20.3	16.1	24.1





#36

1,1-Dichloropropene

Concen: 4.793 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

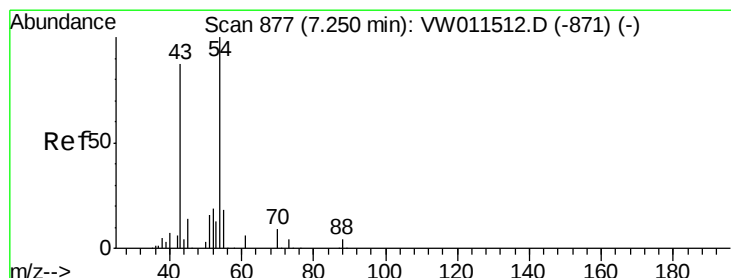
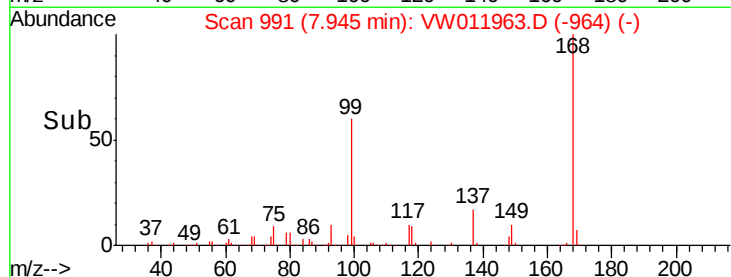
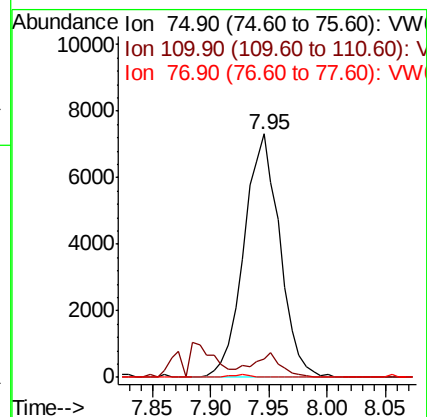
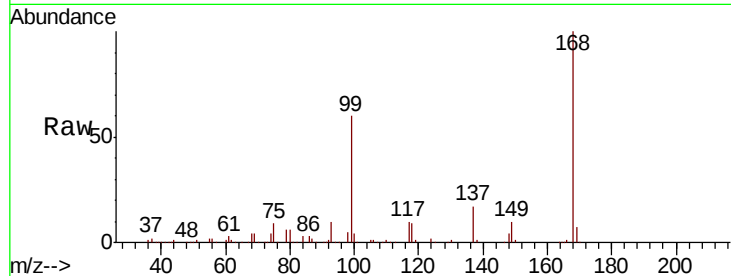
Tgt Ion: 75 Resp: 15670

Ion Ratio Lower Upper

75 100

110 8.0 15.6 46.8#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 3.083 ug/l

RT: 7.19 min Scan# 867

Delta R.T. -0.06 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

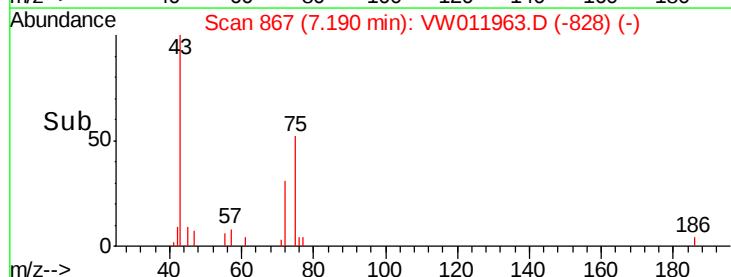
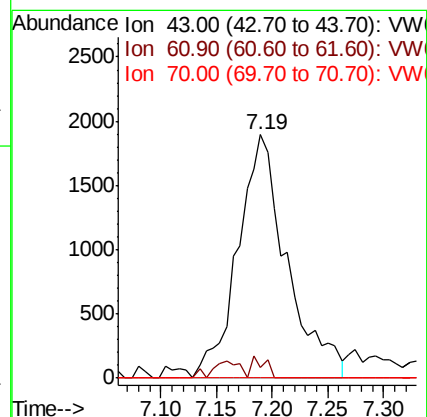
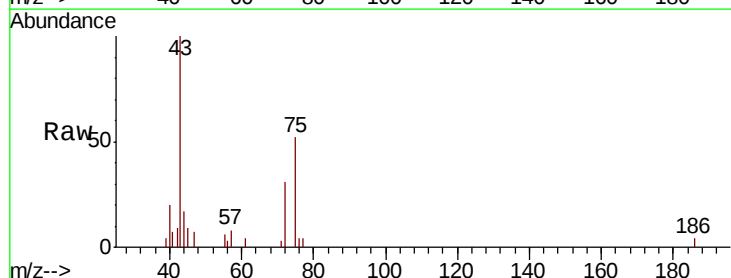
Tgt Ion: 43 Resp: 5798

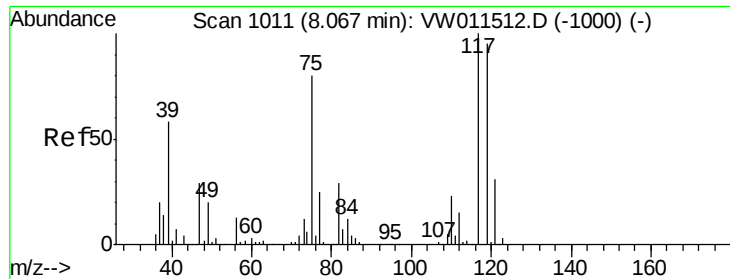
Ion Ratio Lower Upper

43 100

61 2.5 8.8 13.2#

70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 6.569 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

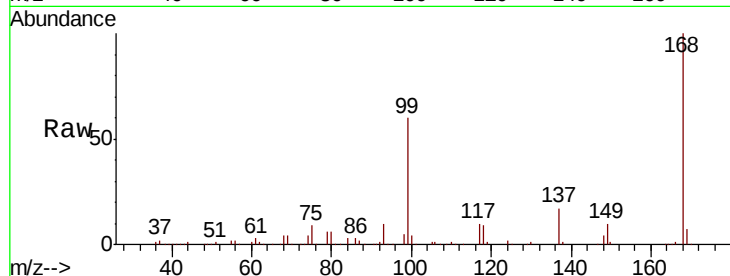
Tgt Ion:117 Resp: 18384

Ion Ratio Lower Upper

117 100

119 5.4 75.8 113.6#

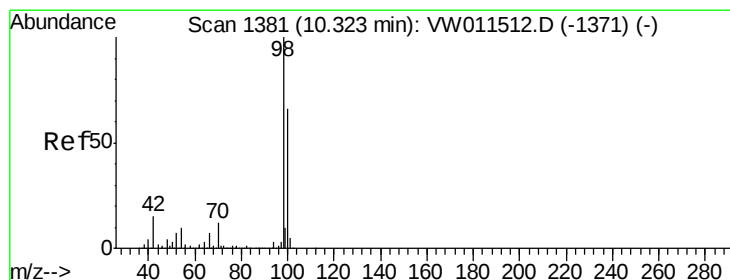
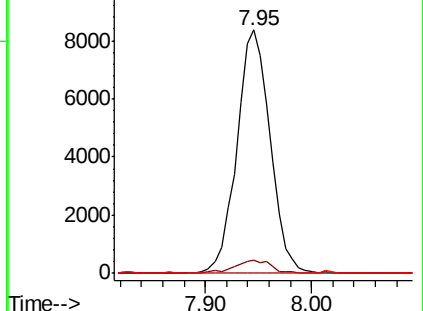
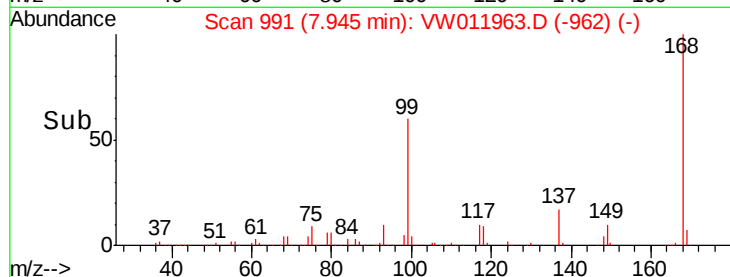
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 47.687 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011963.D

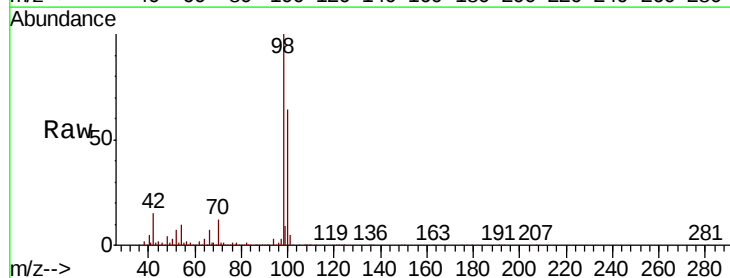
Acq: 16 Aug 2019 14:26

Tgt Ion: 98 Resp: 344380

Ion Ratio Lower Upper

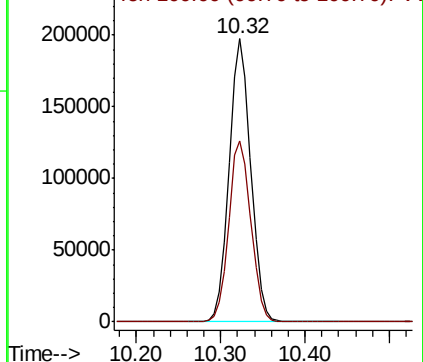
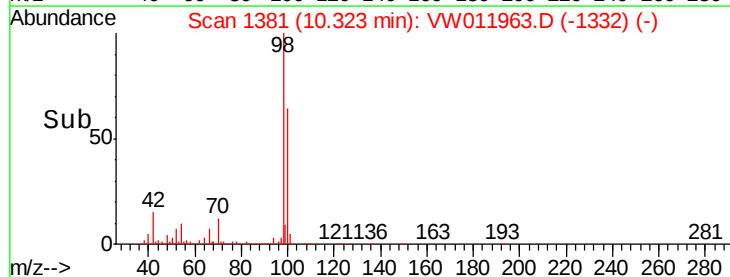
98 100

100 65.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 33.518 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

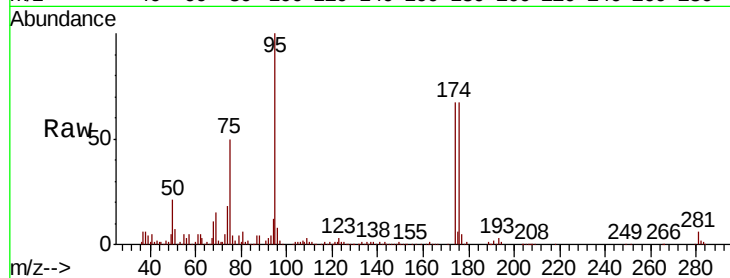
Tgt Ion: 95 Resp: 86298

Ion Ratio Lower Upper

95 100

174 72.0 0.0 150.2

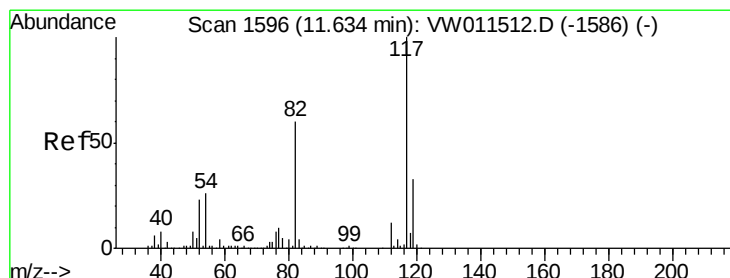
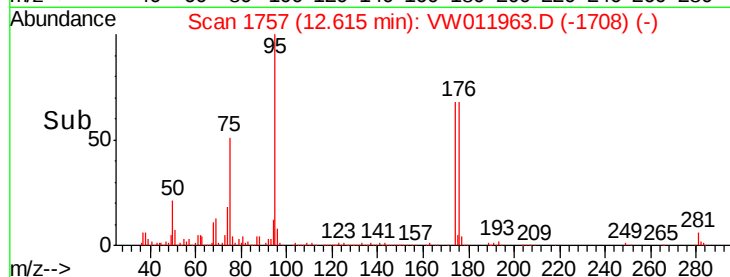
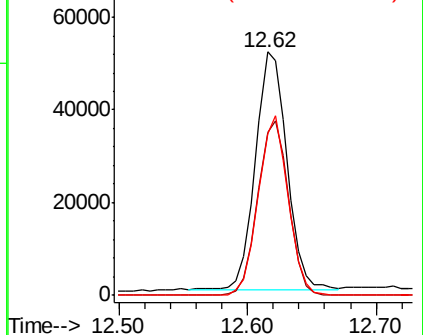
176 71.2 0.0 144.4



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

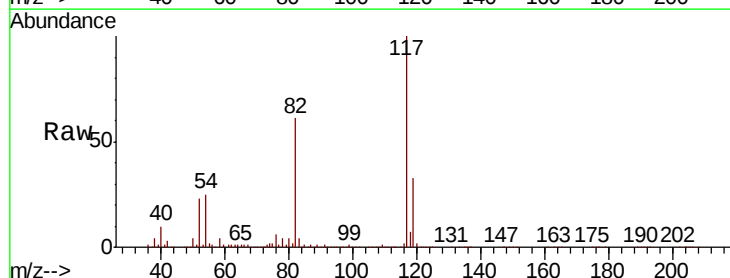
Tgt Ion: 117 Resp: 213162

Ion Ratio Lower Upper

117 100

82 60.4 47.9 71.9

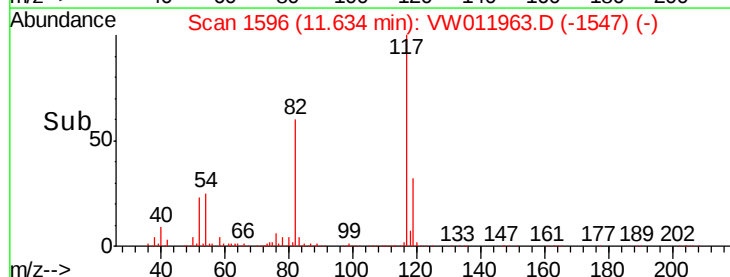
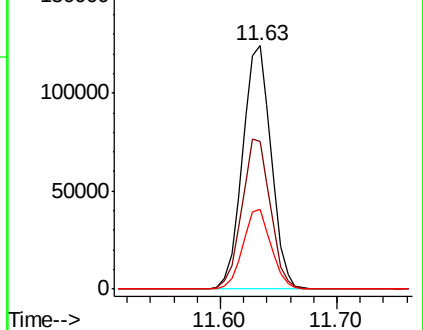
119 32.3 26.2 39.2

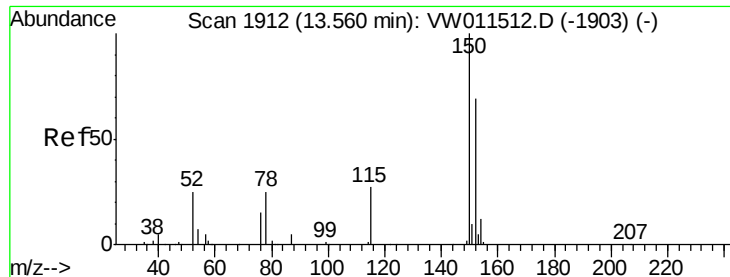


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

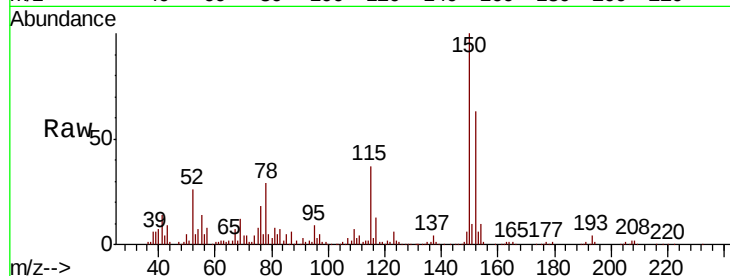
Tgt Ion:152 Resp: 53726

Ion Ratio Lower Upper

152 100

115 57.3 30.5 91.5

150 148.0 0.0 352.6

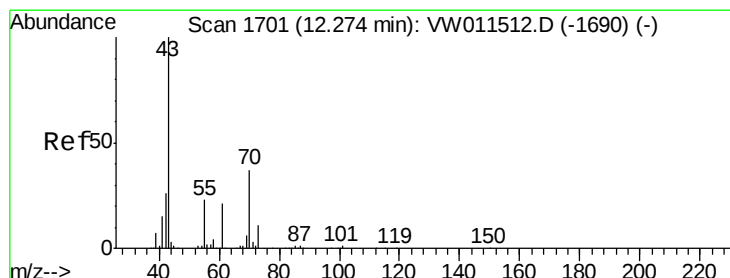
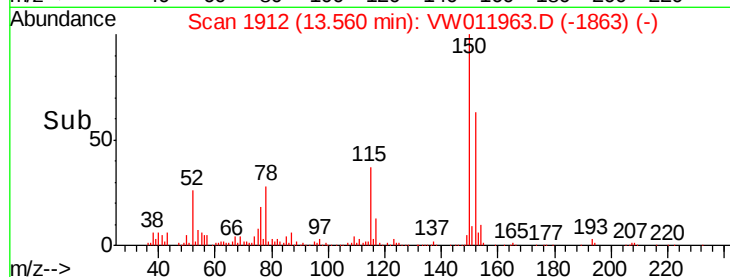
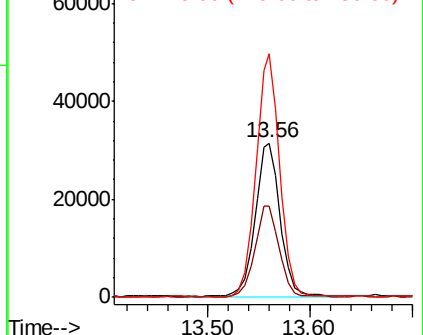


Abundance

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: 1.128 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Tgt Ion: 43 Resp: 1416

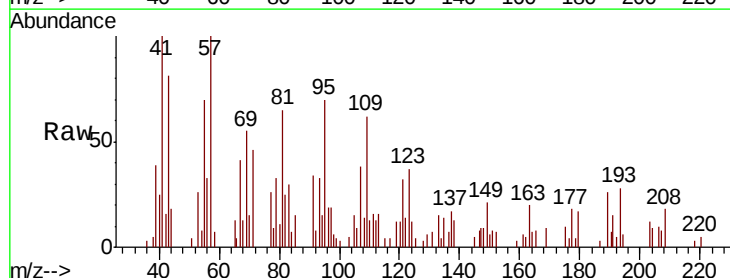
Ion Ratio Lower Upper

43 100

70 37.9 28.6 43.0

55 132.2 17.8 26.8#

61 0.0 17.0 25.6#



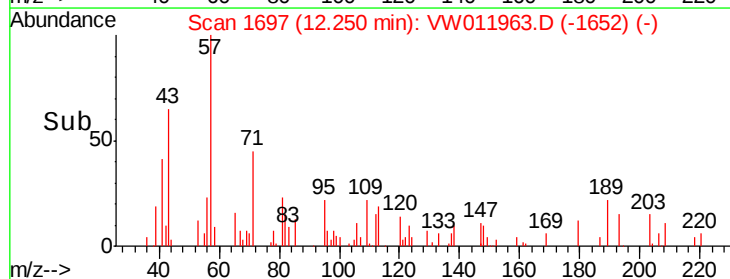
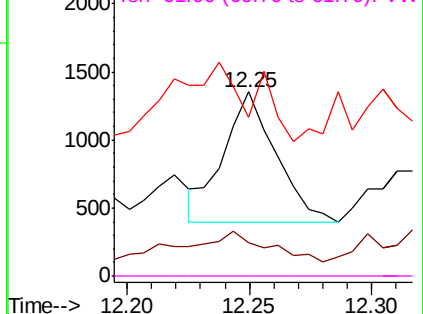
Abundance

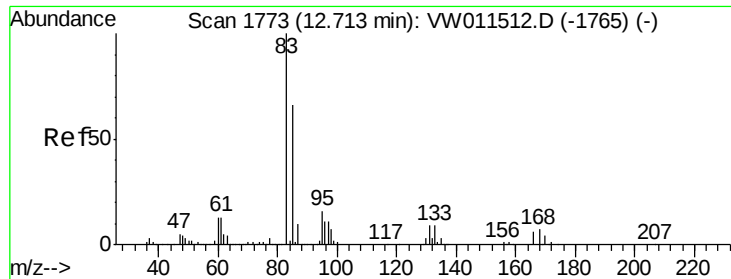
Ion 43.00 (42.70 to 43.70): VW

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: 1.352 ug/l

RT: 12.88 min Scan# 1800

Delta R.T. 0.16 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

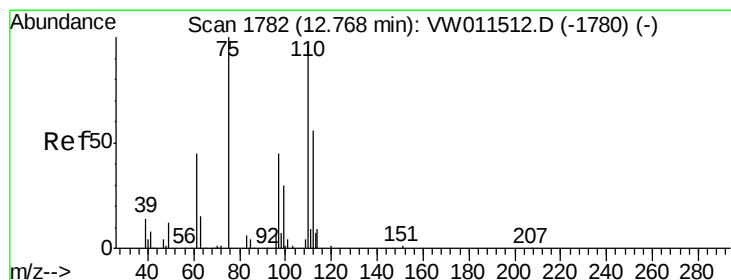
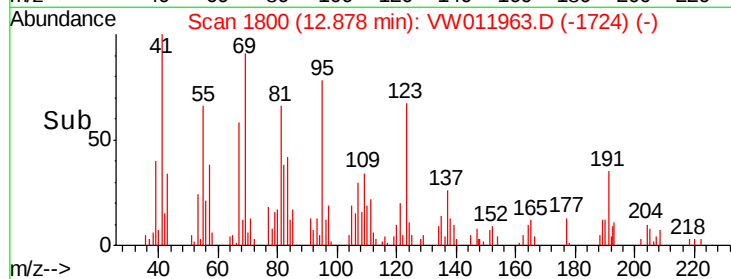
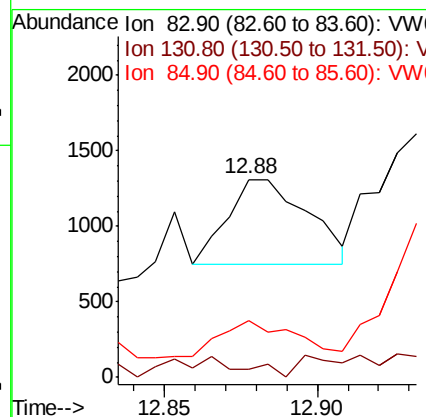
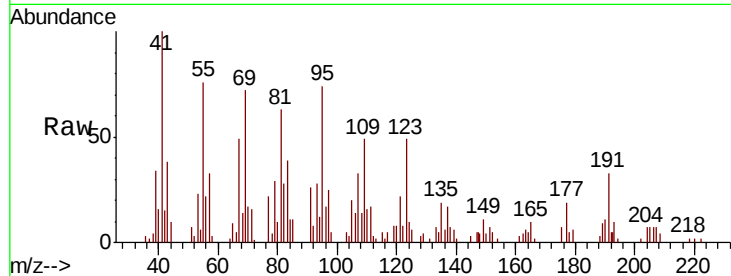
Tgt Ion: 83 Resp: 1019

Ion Ratio Lower Upper

83 100

131 12.9 4.9 14.6

85 42.2 31.8 95.4



#76

1,2,3-Trichloropropane

Concen: 78.166 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011963.D

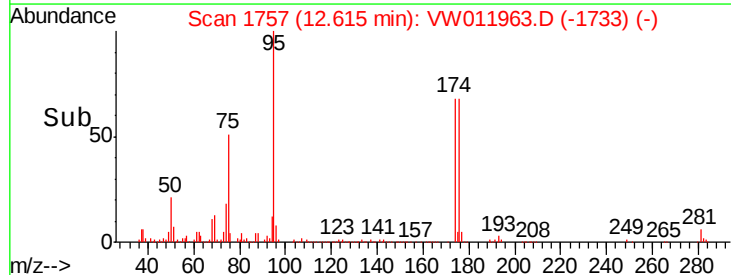
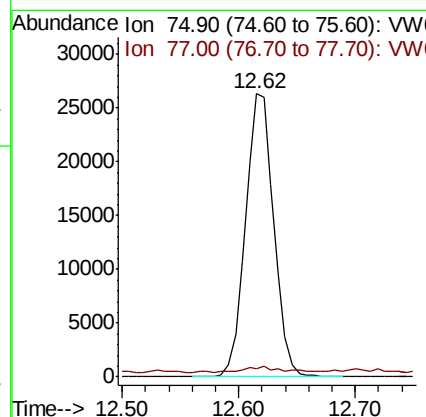
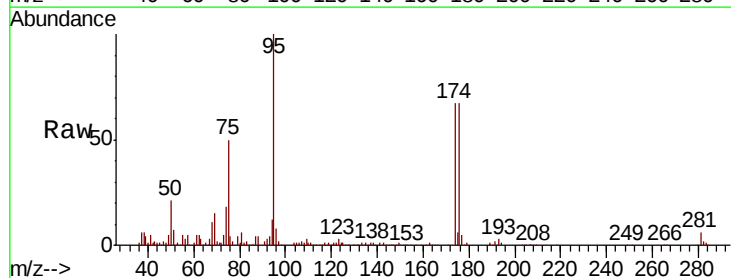
Acq: 16 Aug 2019 14:26

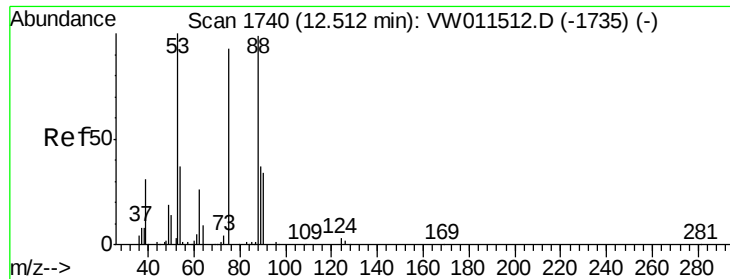
Tgt Ion: 75 Resp: 44436

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 180.145 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

Instrument :

MSVOA_W

ClientSampleId :

T8-B1-(4)RE

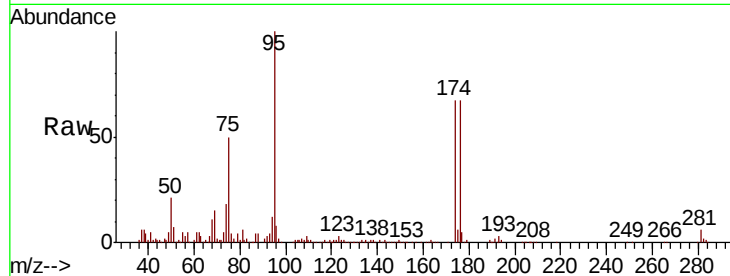
Tgt Ion: 75 Resp: 44436

Ion Ratio Lower Upper

75 100

53 0.9 88.0 132.0#

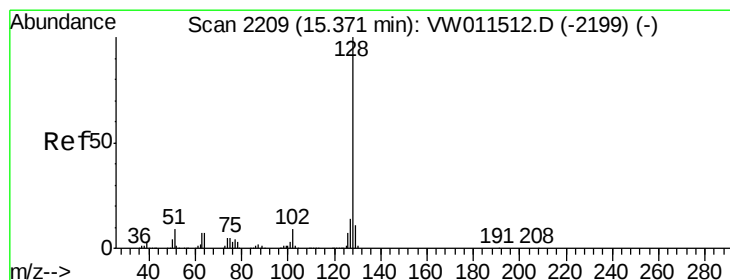
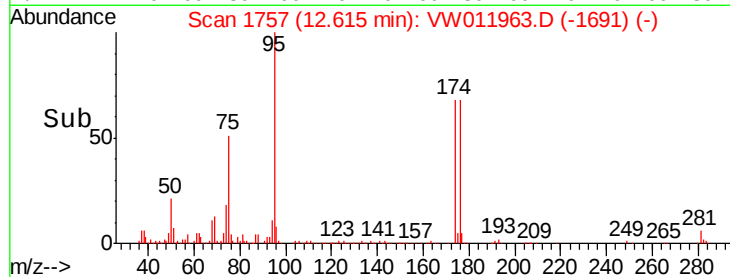
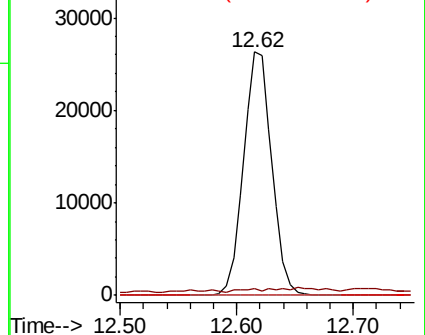
89 0.1 35.3 52.9#



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



#95

Naphthalene

Concen: 2.768 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011963.D

Acq: 16 Aug 2019 14:26

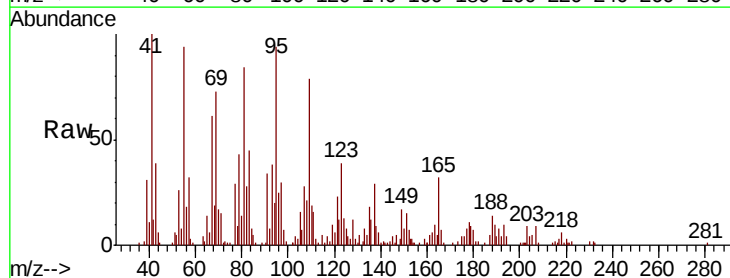
Tgt Ion: 128 Resp: 1553

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

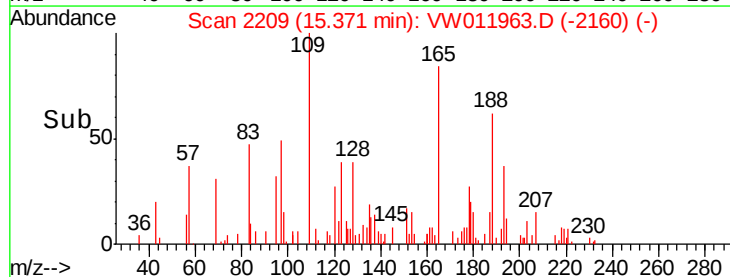
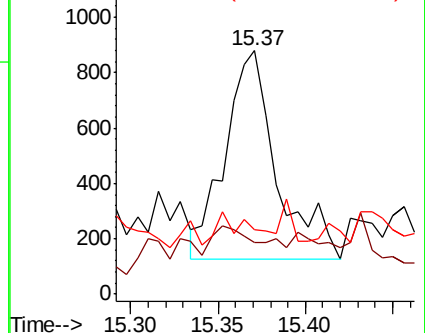
129 4.2 8.6 13.0#

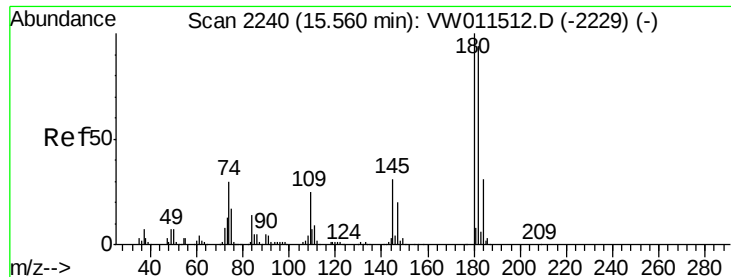


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

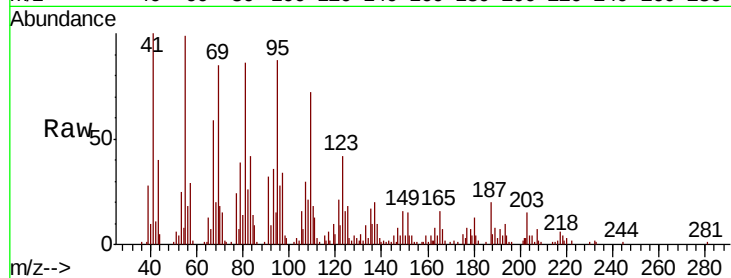




#96
 1,2,3-Trichlorobenzene
 Concen: 1.217 ug/l
 RT: 15.58 min Scan# 2244
 Delta R.T. 0.02 min
 Lab File: VW011963.D
 Acq: 16 Aug 2019 14:26

Instrument :
 MSVOA_W
 ClientSampleId :
 T8-B1-(4)RE

Tgt Ion:180 Resp: 1155
 Ion Ratio Lower Upper
 180 100
 182 9.4 47.4 142.2#
 145 17.1 15.9 47.7



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

