

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082919\
 Data File : VW012303.D
 Acq On : 29 Aug 2019 15:12
 Operator : SY/VA
 Sample : K4596-01
 Misc : 4.70G/5ML/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S403-K1-1.0-1.5-082819

Quant Time: Aug 30 07:33:25 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	235710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	392738	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	322498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	132422	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	145183	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
35) Dibromofluoromethane	7.88	113	117027	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	10.32	98	473853	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	12.62	95	157583	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	

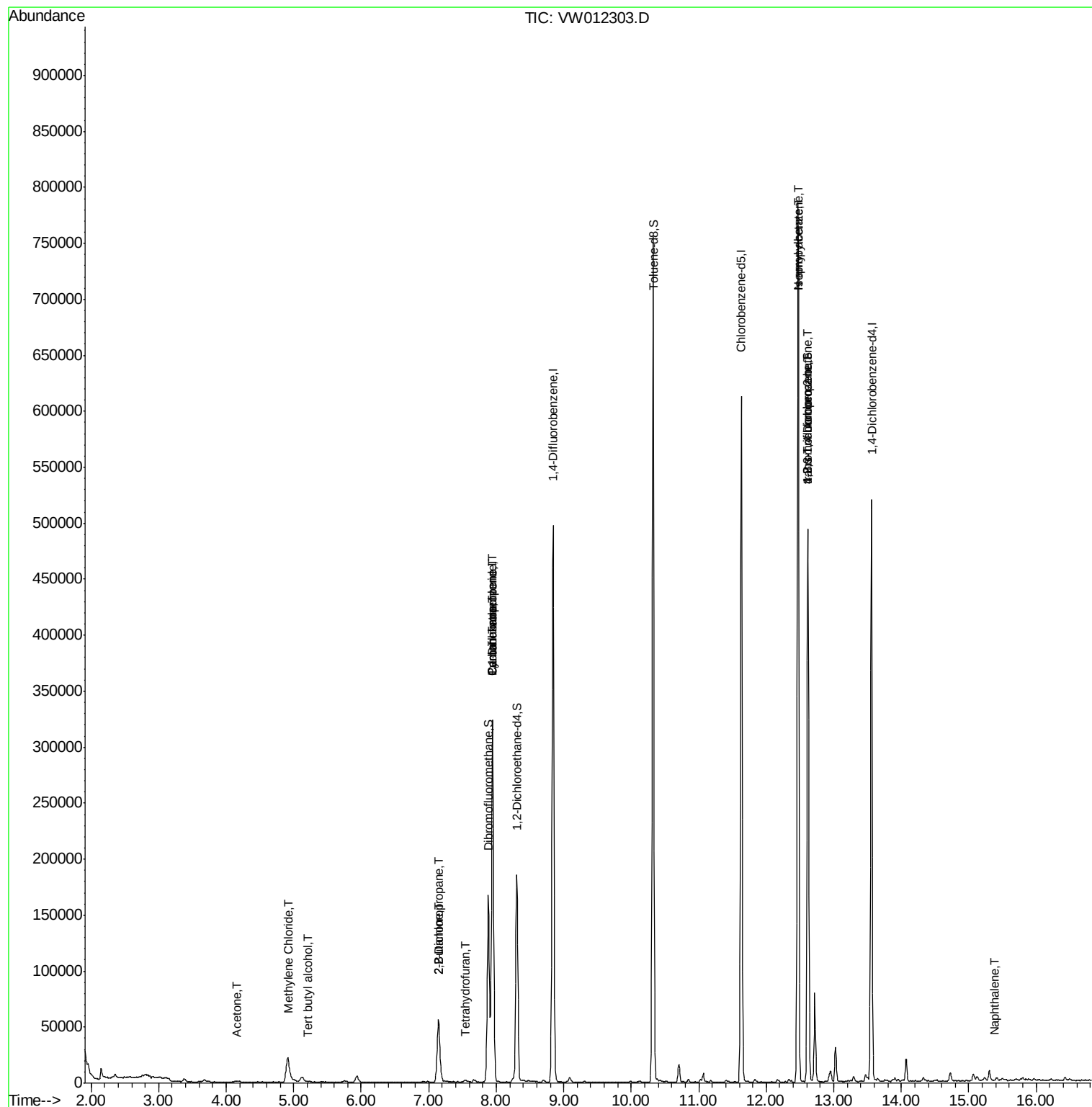
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	537	3.185	ug/l #	71
16) Acetone	4.15	43	2009	2.805	ug/l #	86
20) Methylene Chloride	4.91	84	16061	5.932	ug/l	97
25) 2-Butanone	7.15	43	3517	3.613	ug/l	92
26) 2,2-Dichloropropane	7.15	77	3655	1.266	ug/l #	54
29) Tetrahydrofuran	7.55	42	1454	2.490	ug/l #	87
31) Cyclohexane	7.95	56	5649	1.119	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	21022	5.180	ug/l #	51
38) Carbon Tetrachloride	7.95	117	23544	6.702	ug/l #	17
73) Isopropylbenzene	12.47	105	31127	3.137	ug/l #	64
74) N-amyl acetate	12.47	43	21388	7.134	ug/l #	24
76) 1,2,3-Trichloropropane	12.62	75	84819	65.767	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84819	144.196	ug/l #	6
95) Naphthalene	15.37	128	322	4.380	ug/l #	69

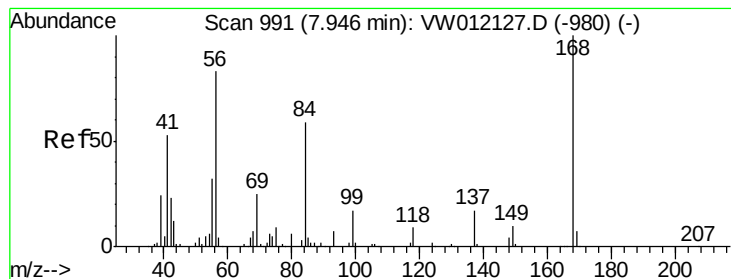
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

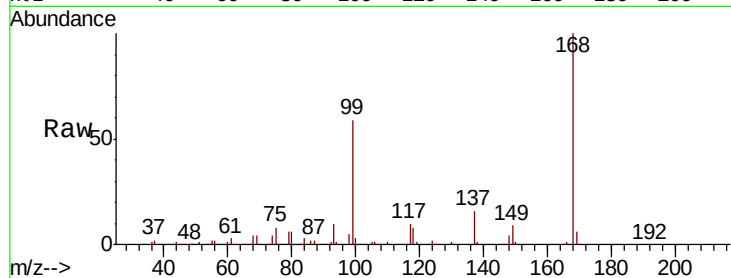
S403-K1-1.0-1.5-082819

Tgt Ion: 168 Resp: 235710

Ion Ratio Lower Upper

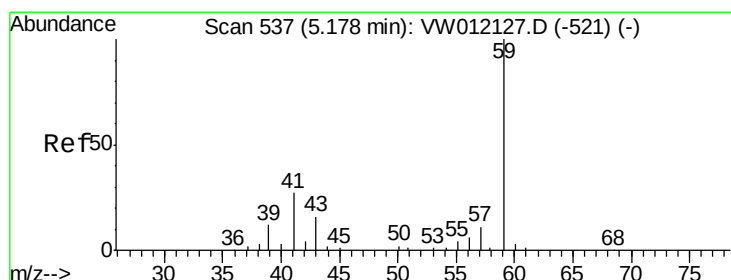
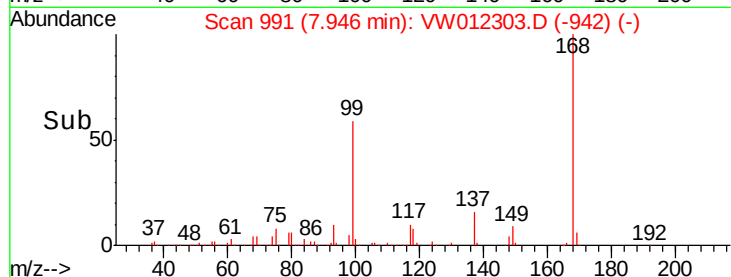
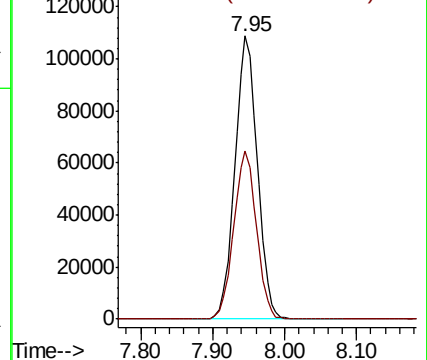
168 100

99 59.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 3.185 ug/l

RT: 5.20 min Scan# 541

Delta R.T. 0.02 min

Lab File: VW012303.D

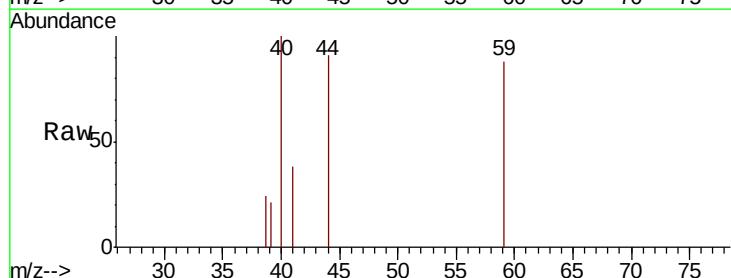
Acq: 29 Aug 2019 15:12

Tgt Ion: 59 Resp: 537

Ion Ratio Lower Upper

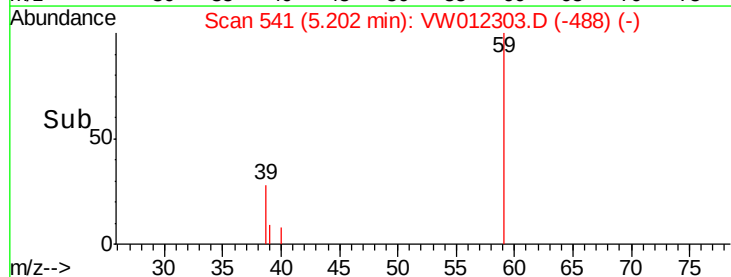
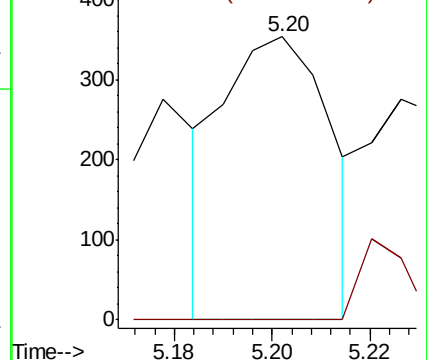
59 100

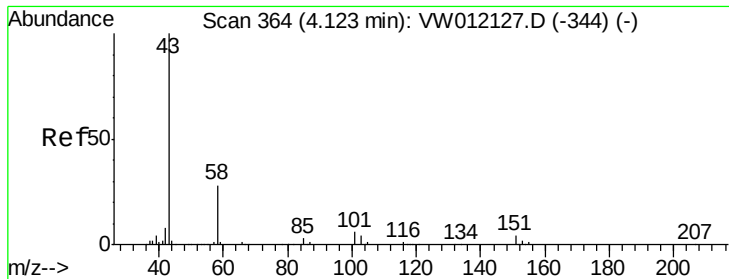
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 2.805 ug/l

RT: 4.15 min Scan# 369

Delta R.T. 0.03 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

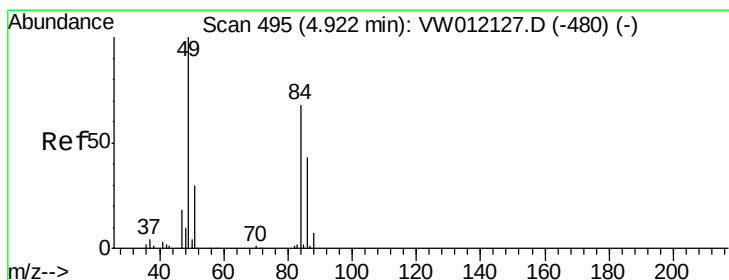
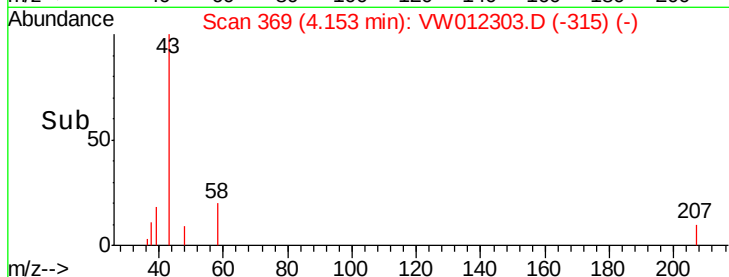
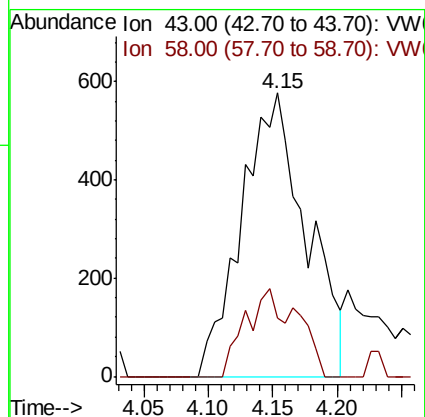
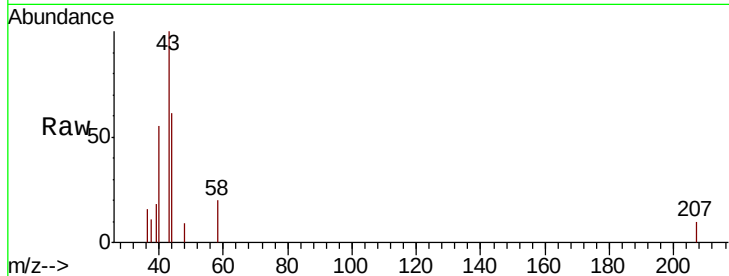
S403-K1-1.0-1.5-082819

Tgt Ion: 43 Resp: 2009

Ion Ratio Lower Upper

43 100

58 20.5 22.4 33.6#



#20

Methylene Chloride

Concen: 5.932 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

Tgt Ion: 84 Resp: 16061

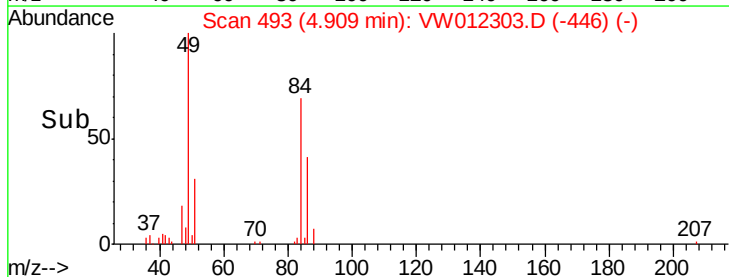
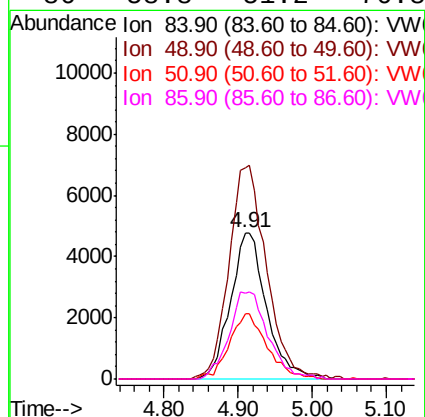
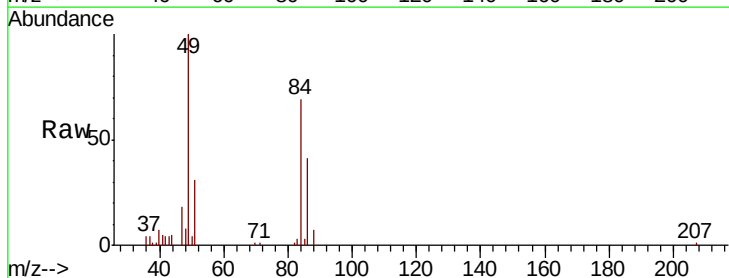
Ion Ratio Lower Upper

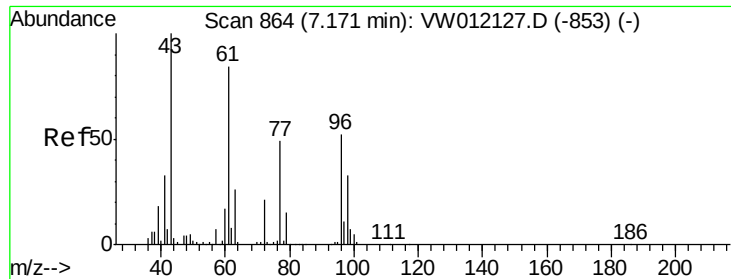
84 100

49 144.4 117.8 176.8

51 44.3 35.6 53.4

86 58.8 51.2 76.8





#25

2-Butanone

Concen: 3.613 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

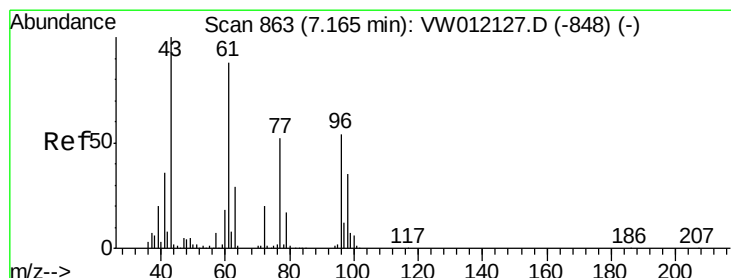
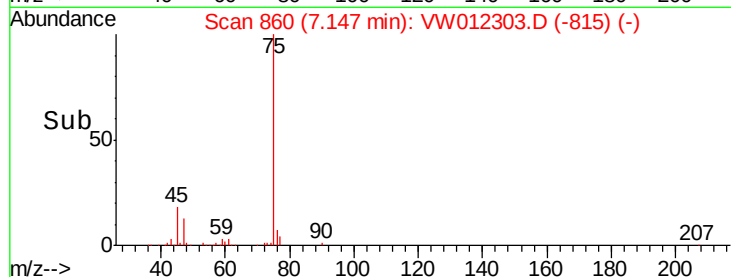
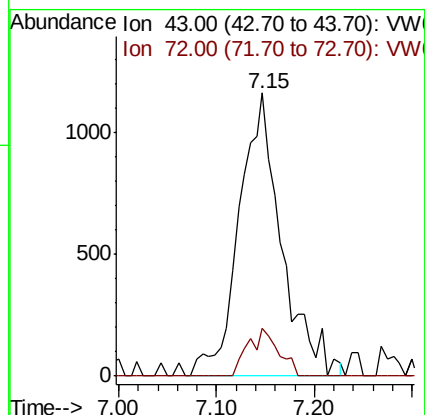
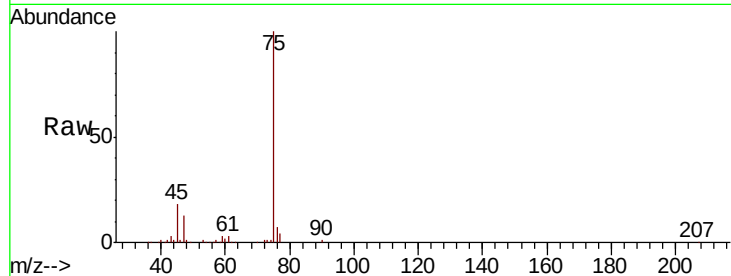
S403-K1-1.0-1.5-082819

Tgt Ion: 43 Resp: 3517

Ion Ratio Lower Upper

43 100

72 16.8 16.6 24.8



#26

2,2-Dichloropropane

Concen: 1.266 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW012303.D

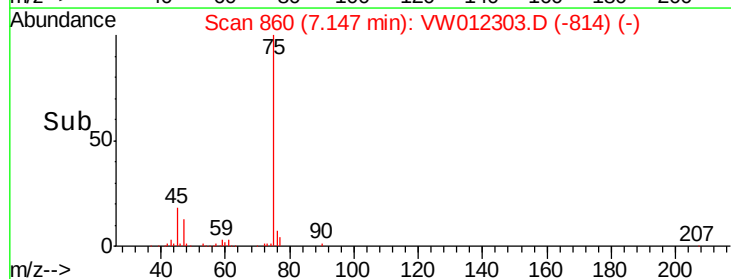
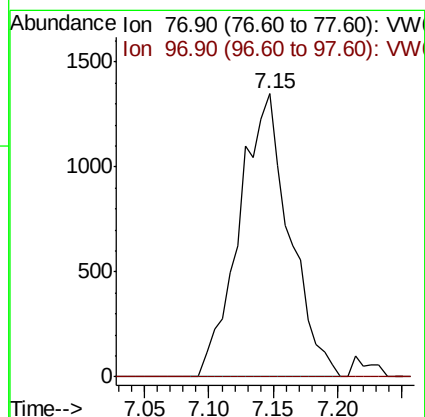
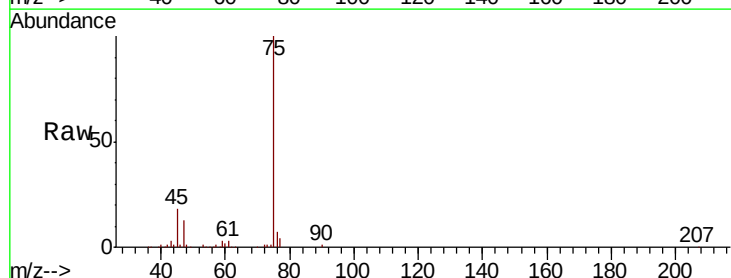
Acq: 29 Aug 2019 15:12

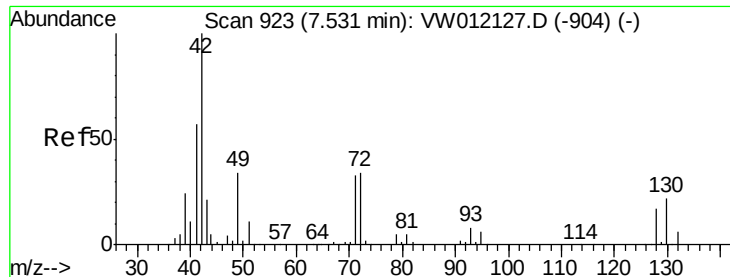
Tgt Ion: 77 Resp: 3655

Ion Ratio Lower Upper

77 100

97 0.0 11.1 33.1#





#29

Tetrahydrofuran

Concen: 2.490 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819

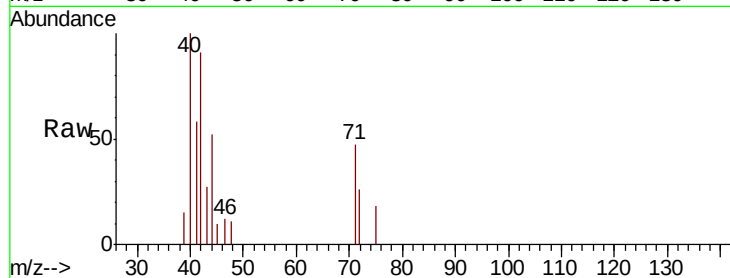
Tgt Ion: 42 Resp: 1454

Ion Ratio Lower Upper

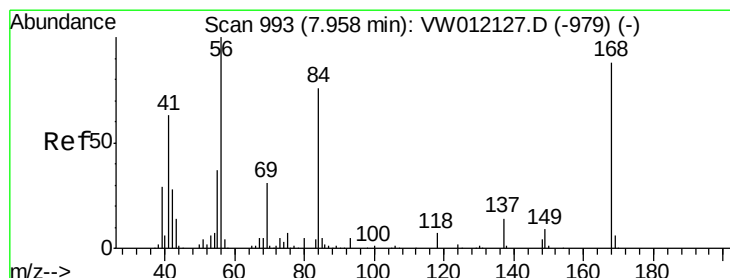
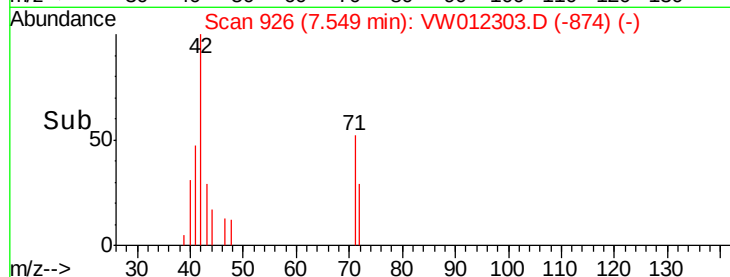
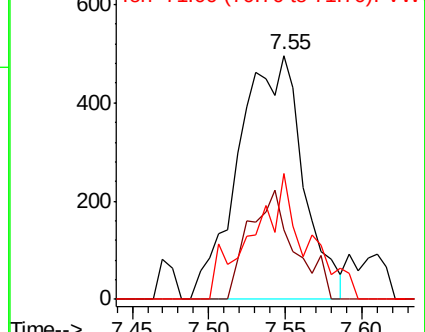
42 100

72 31.8 27.3 40.9

71 44.2 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: 1.119 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

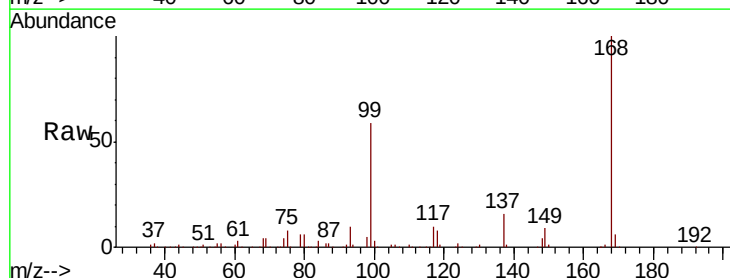
Tgt Ion: 56 Resp: 5649

Ion Ratio Lower Upper

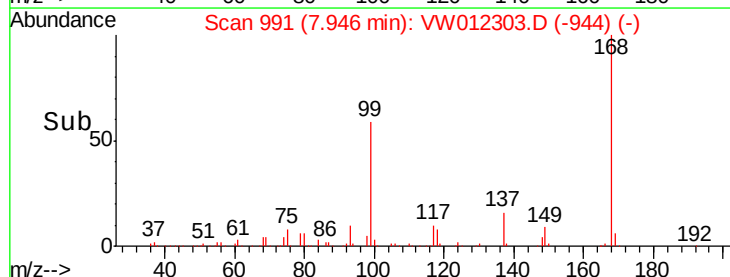
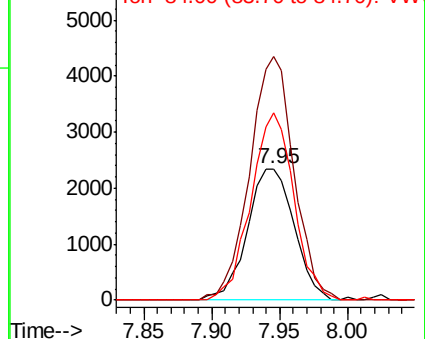
56 100

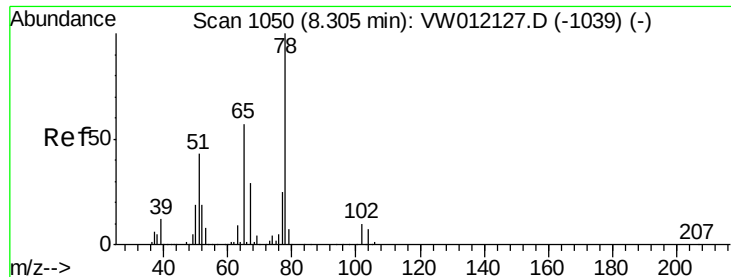
69 185.8 24.9 37.3#

84 143.4 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

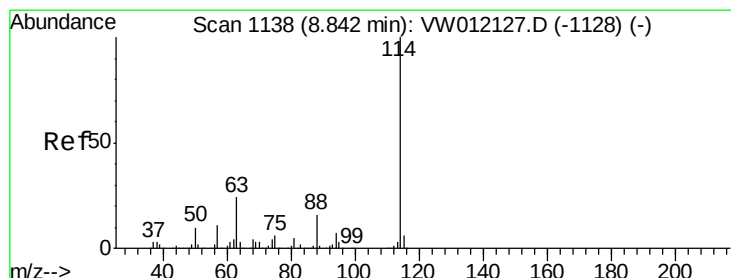
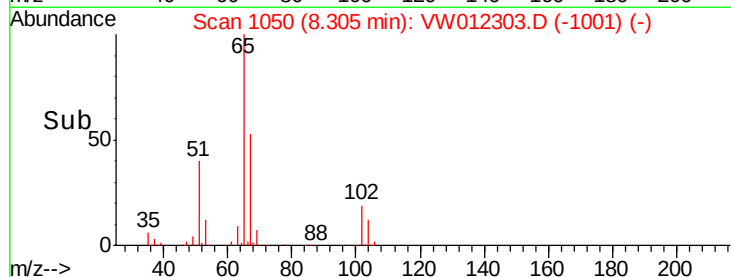
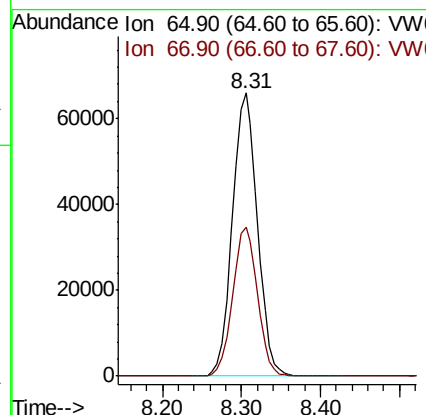
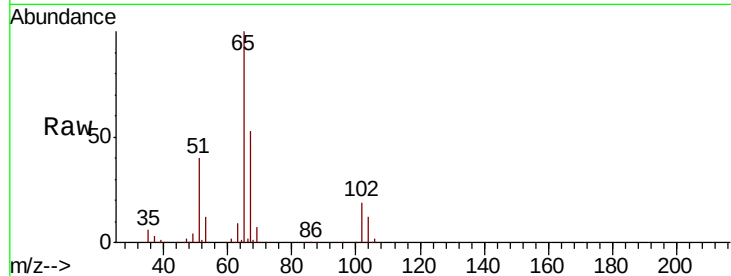




#33
 1,2-Dichloroethane-d4
 Concen: 51.814 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012303.D
 Acq: 29 Aug 2019 15:12

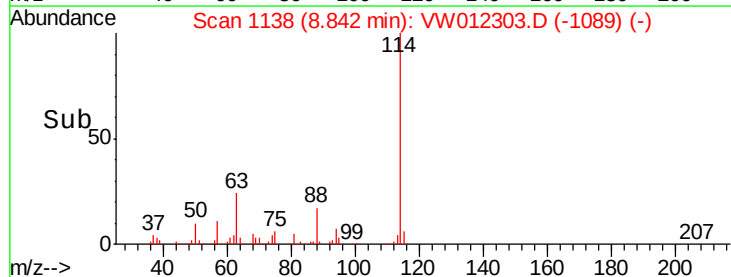
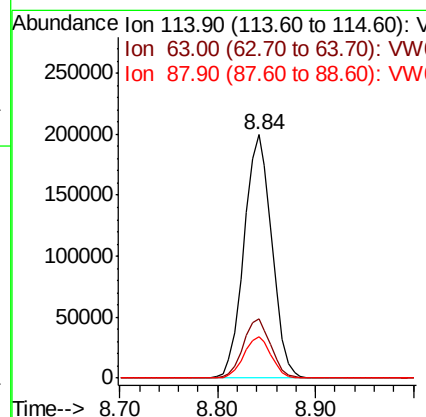
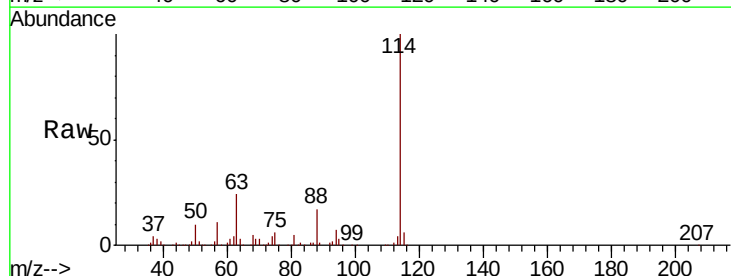
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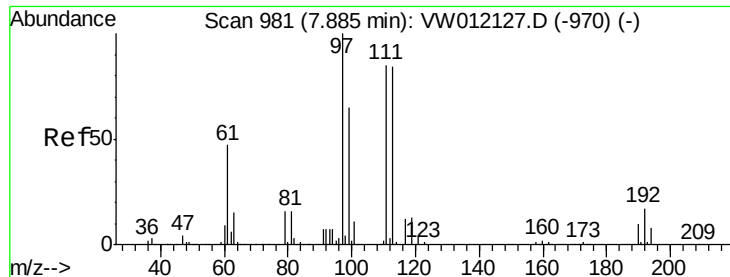
Tgt Ion: 65 Resp: 145183
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012303.D
 Acq: 29 Aug 2019 15:12

Tgt Ion: 114 Resp: 392738
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 48.6
 88 16.8 0.0 32.2

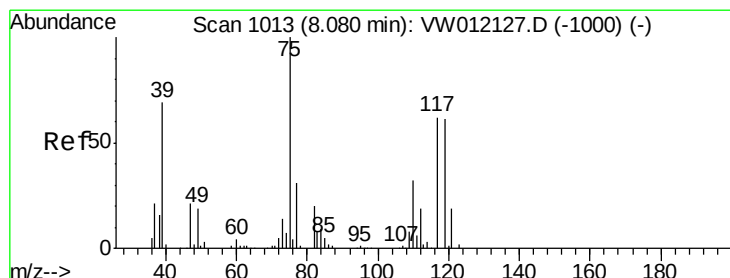
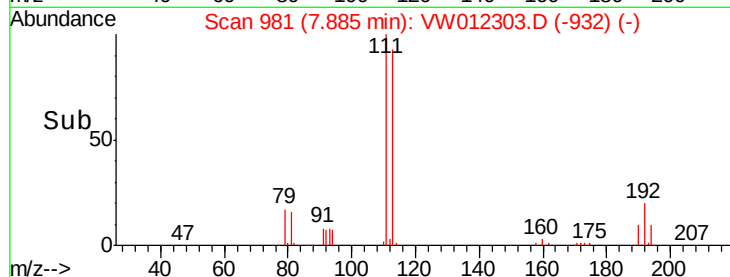
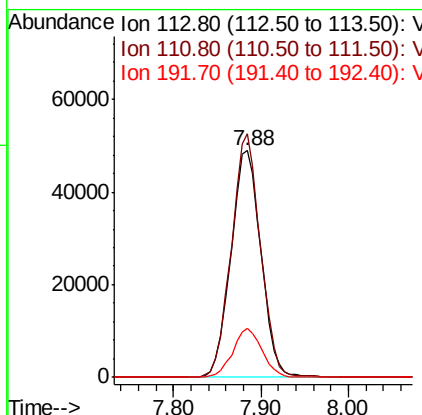
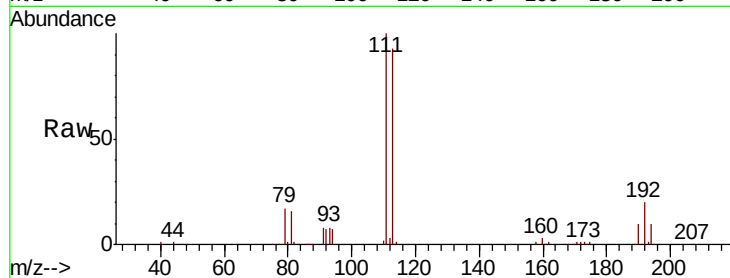




#35
 Dibromofluoromethane
 Concen: 49.921 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012303.D
 Acq: 29 Aug 2019 15:12

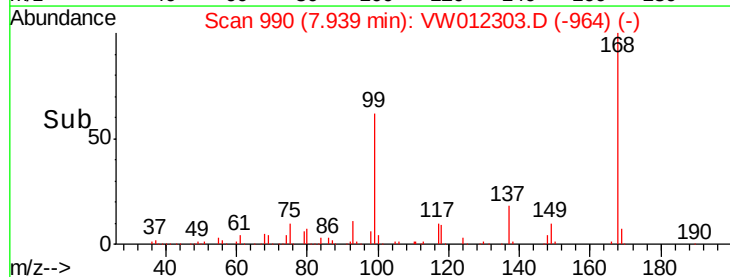
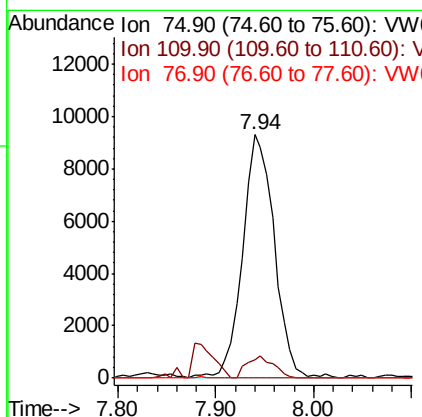
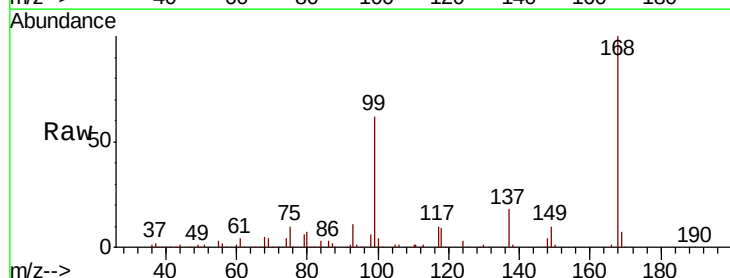
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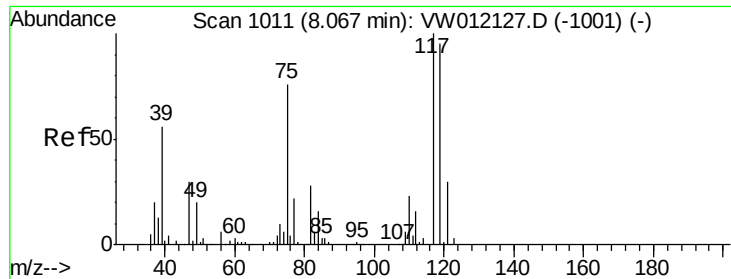
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.7	124.1
192	20.8	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.180 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW012303.D
 Acq: 29 Aug 2019 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	15.6	46.8#
77	0.0	24.6	36.8#

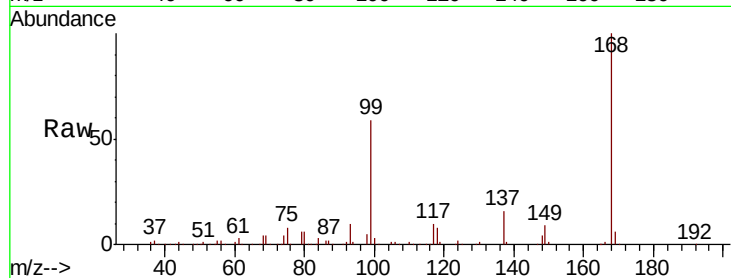




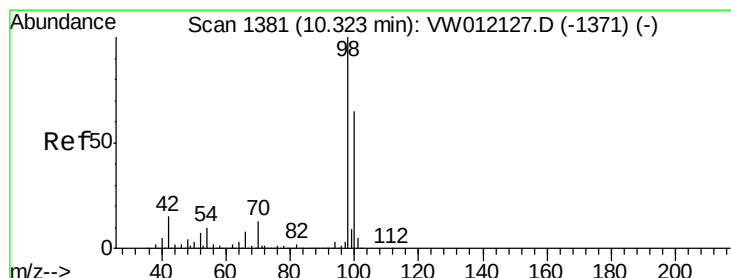
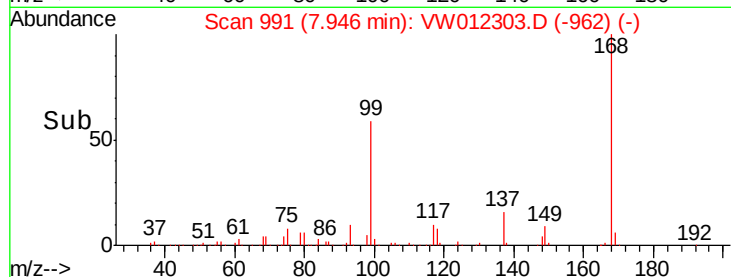
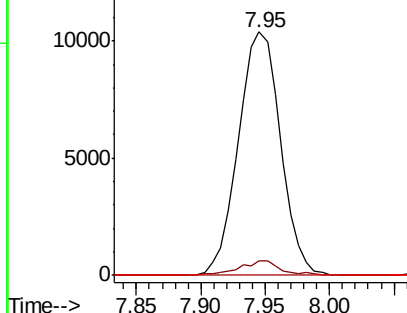
#38
Carbon Tetrachloride
Concen: 6.702 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012303.D
Acq: 29 Aug 2019 15:12

Instrument :
MSVOA_W
ClientSampleId :
S403-K1-1.0-1.5-082819

Tgt Ion:117 Resp: 23544
Ion Ratio Lower Upper
117 100
119 5.7 76.2 114.2#
121 0.0 23.8 35.8#

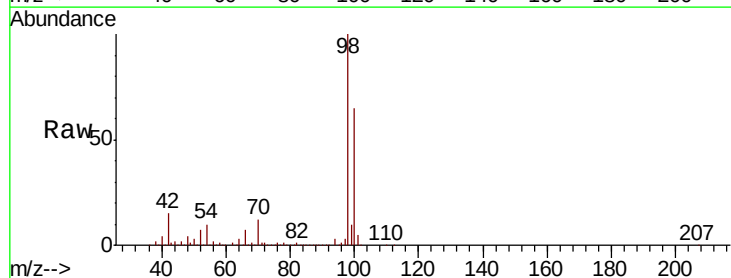


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

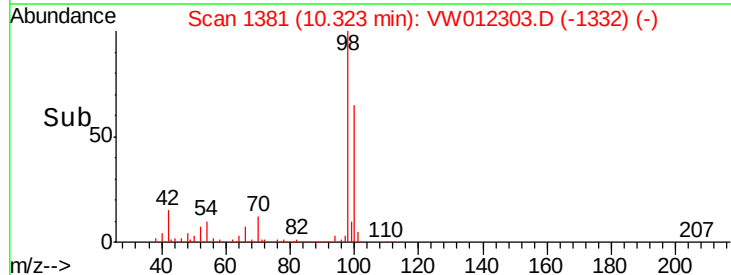
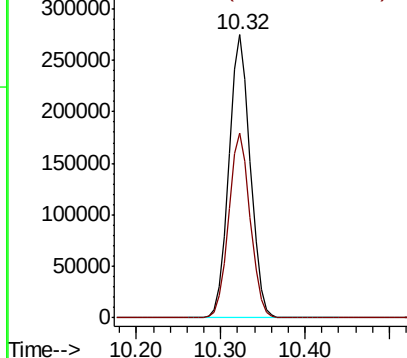


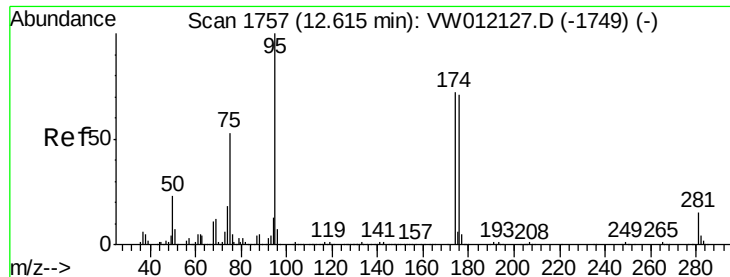
#50
Toluene-d8
Concen: 49.851 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012303.D
Acq: 29 Aug 2019 15:12

Tgt Ion: 98 Resp: 473853
Ion Ratio Lower Upper
98 100
100 65.5 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.031 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819

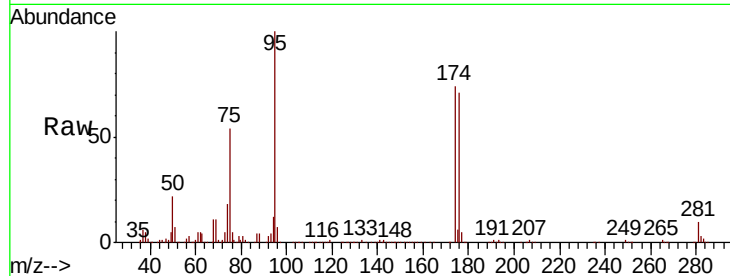
Tgt Ion: 95 Resp: 157583

Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.8

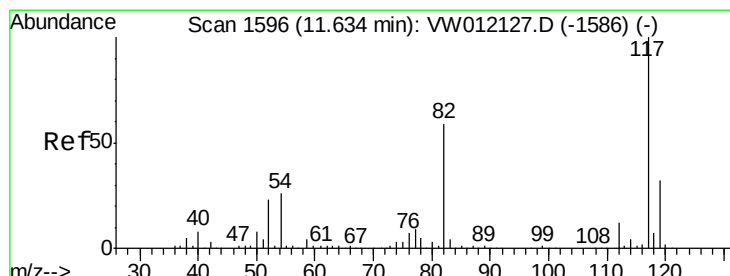
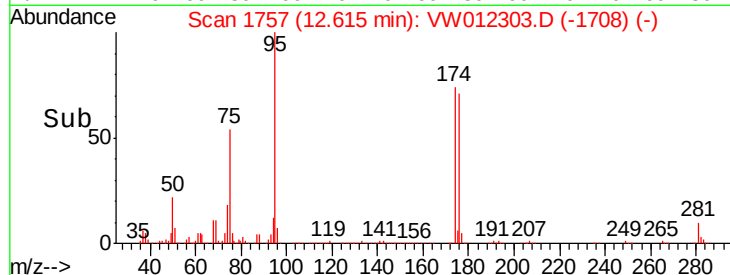
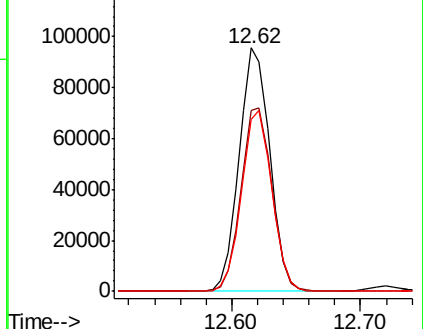
176 73.2 0.0 148.6



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: VW012303.D

Acq: 29 Aug 2019 15:12

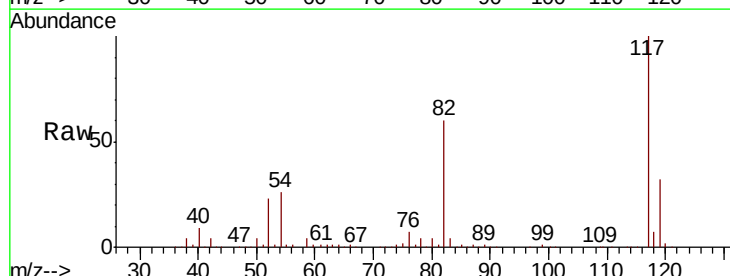
Tgt Ion: 117 Resp: 322498

Ion Ratio Lower Upper

117 100

82 60.2 47.4 71.2

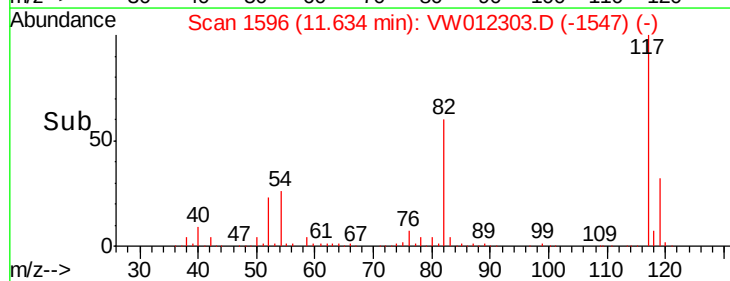
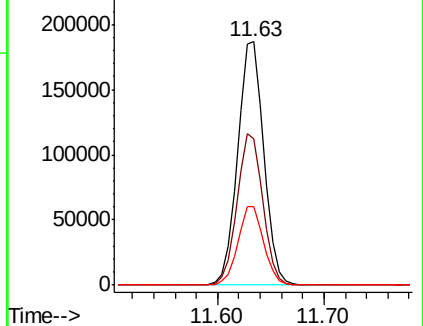
119 32.2 25.4 38.2

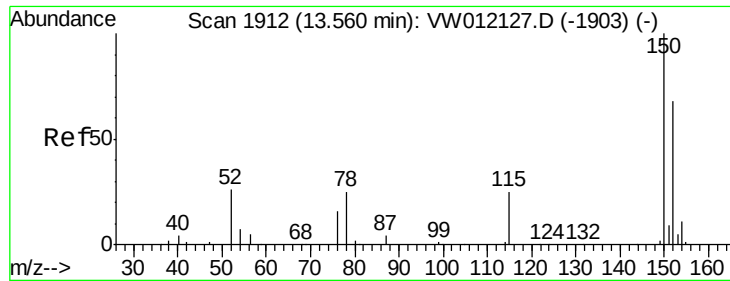


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819

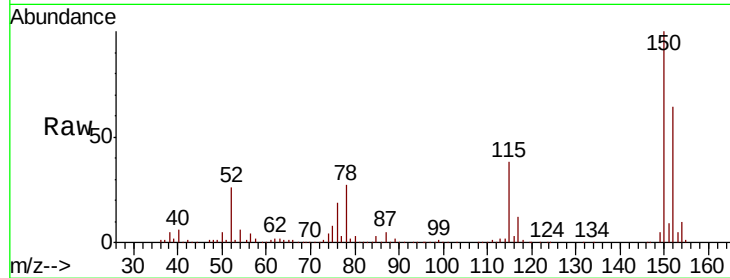
Tgt Ion:152 Resp: 132422

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

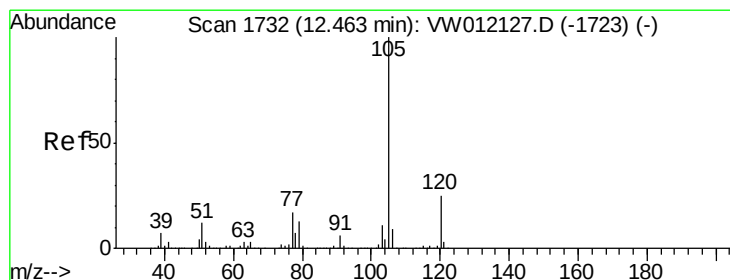
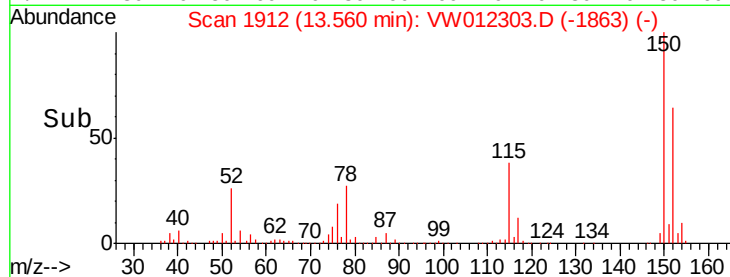
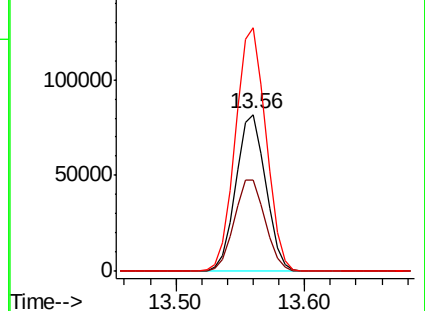
150 158.0 0.0 345.8



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



#73

Isopropylbenzene

Concen: 3.137 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW012303.D

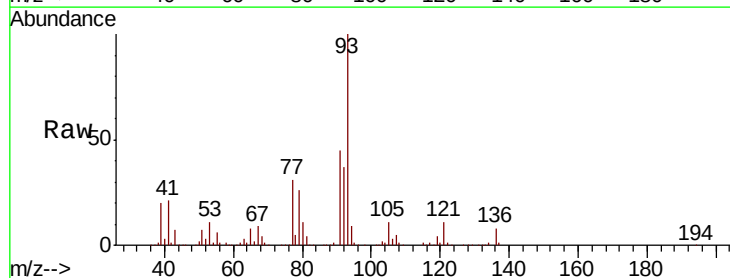
Acq: 29 Aug 2019 15:12

Tgt Ion:105 Resp: 31127

Ion Ratio Lower Upper

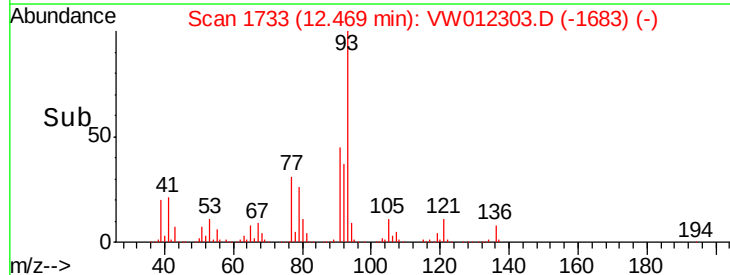
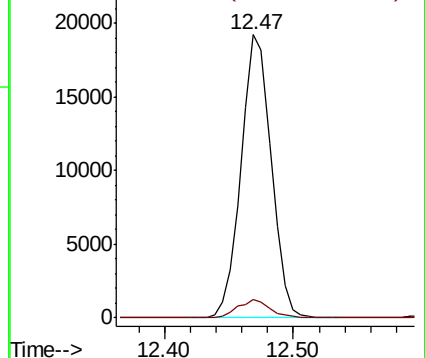
105 100

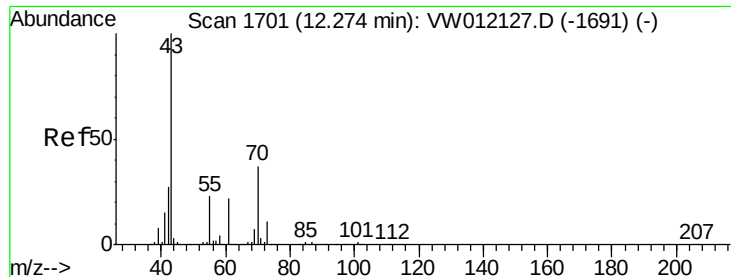
120 6.8 12.5 37.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 7.134 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.20 min

Lab File: VW012303.D

Acq: 29 Aug 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819

Tgt Ion: 43 Resp: 21388

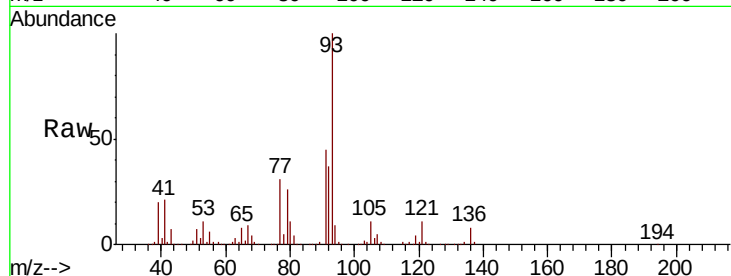
Ion Ratio Lower Upper

43 100

70 1.8 28.6 43.0#

55 88.6 17.8 26.6#

61 2.3 17.3 25.9#

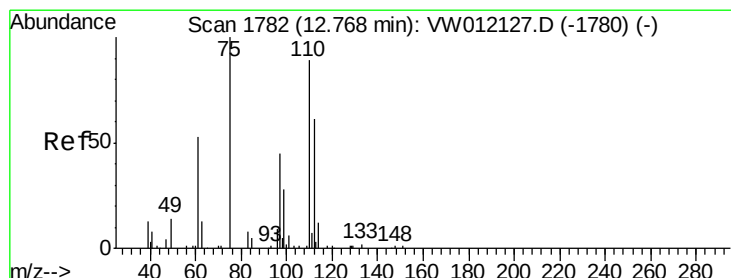
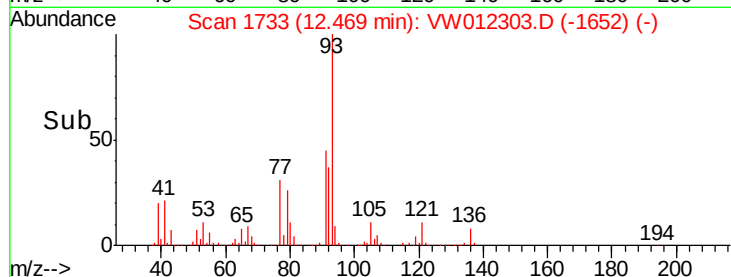
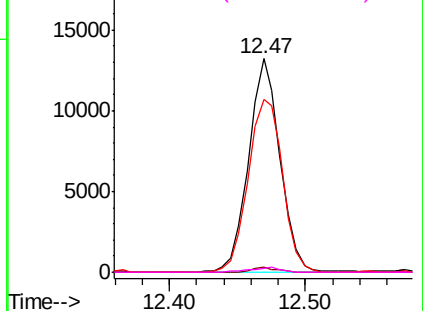


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 65.767 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012303.D

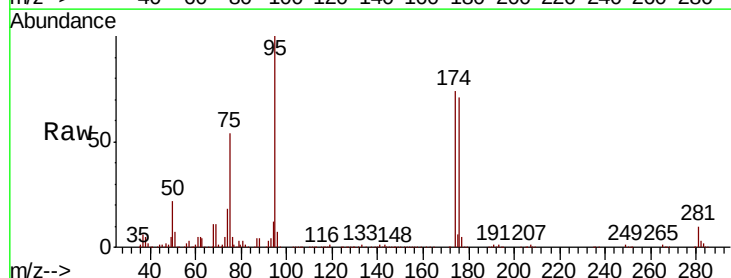
Acq: 29 Aug 2019 15:12

Tgt Ion: 75 Resp: 84819

Ion Ratio Lower Upper

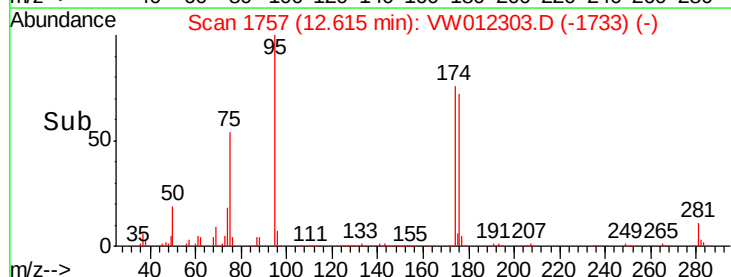
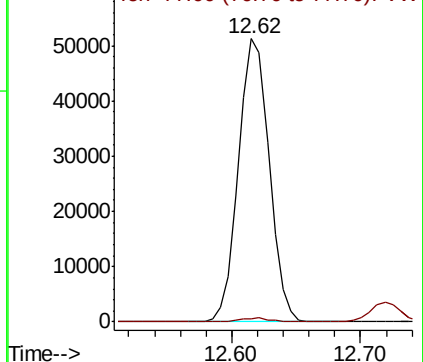
75 100

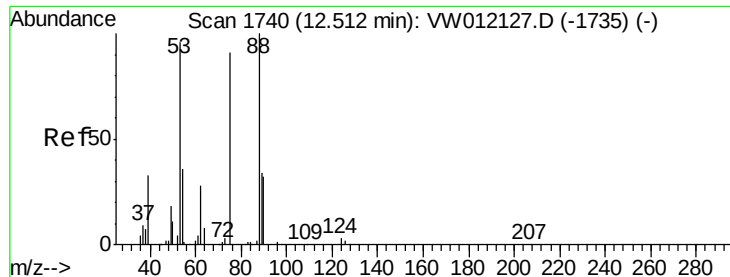
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

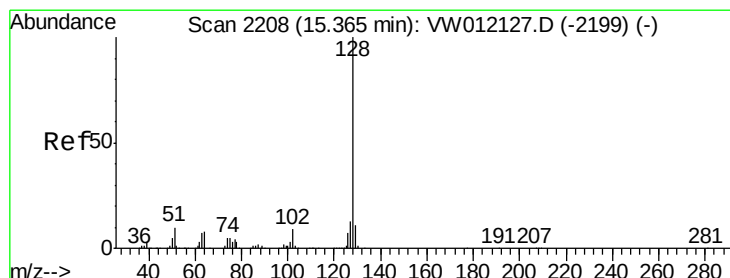
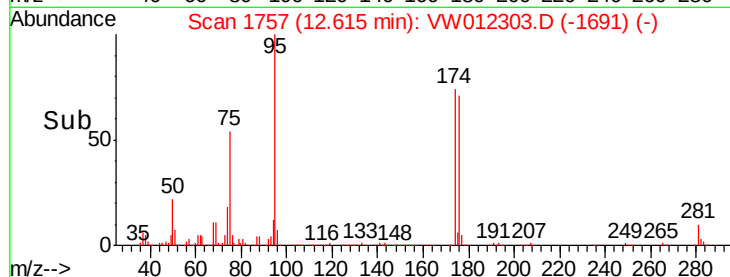
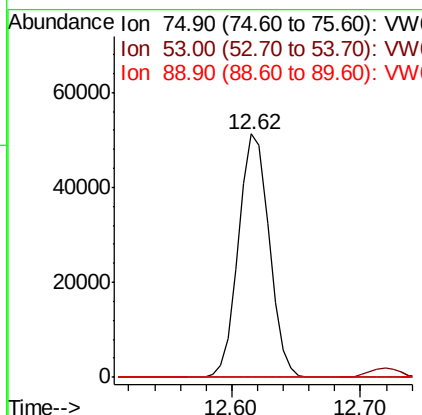
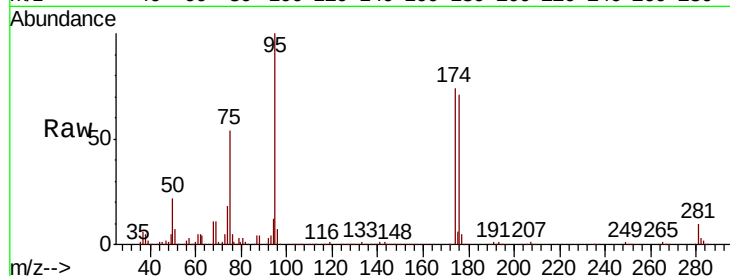




#81
trans-1,4-Dichloro-2-butene
Concen: 144.196 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012303.D
Acq: 29 Aug 2019 15:12

Instrument :
MSVOA_W
ClientSampleId :
S403-K1-1.0-1.5-082819

Tgt Ion: 75 Resp: 84819
Ion Ratio Lower Upper
75 100
53 0.0 89.4 134.0#
89 0.1 34.5 51.7#



#95
Naphthalene
Concen: 4.380 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW012303.D
Acq: 29 Aug 2019 15:12

Tgt Ion: 128 Resp: 322
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.7 13.1#

