

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082919\
 Data File : VW012304.D
 Acq On : 29 Aug 2019 15:38
 Operator : SY/VA
 Sample : K4596-05
 Misc : 4.67G/5ML/MSVOA_W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Aug 30 06:49:21 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	224557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	370642	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	307599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	125235	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	138780	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
35) Dibromofluoromethane	7.88	113	112484	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
50) Toluene-d8	10.32	98	447642	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.62	95	150433	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	

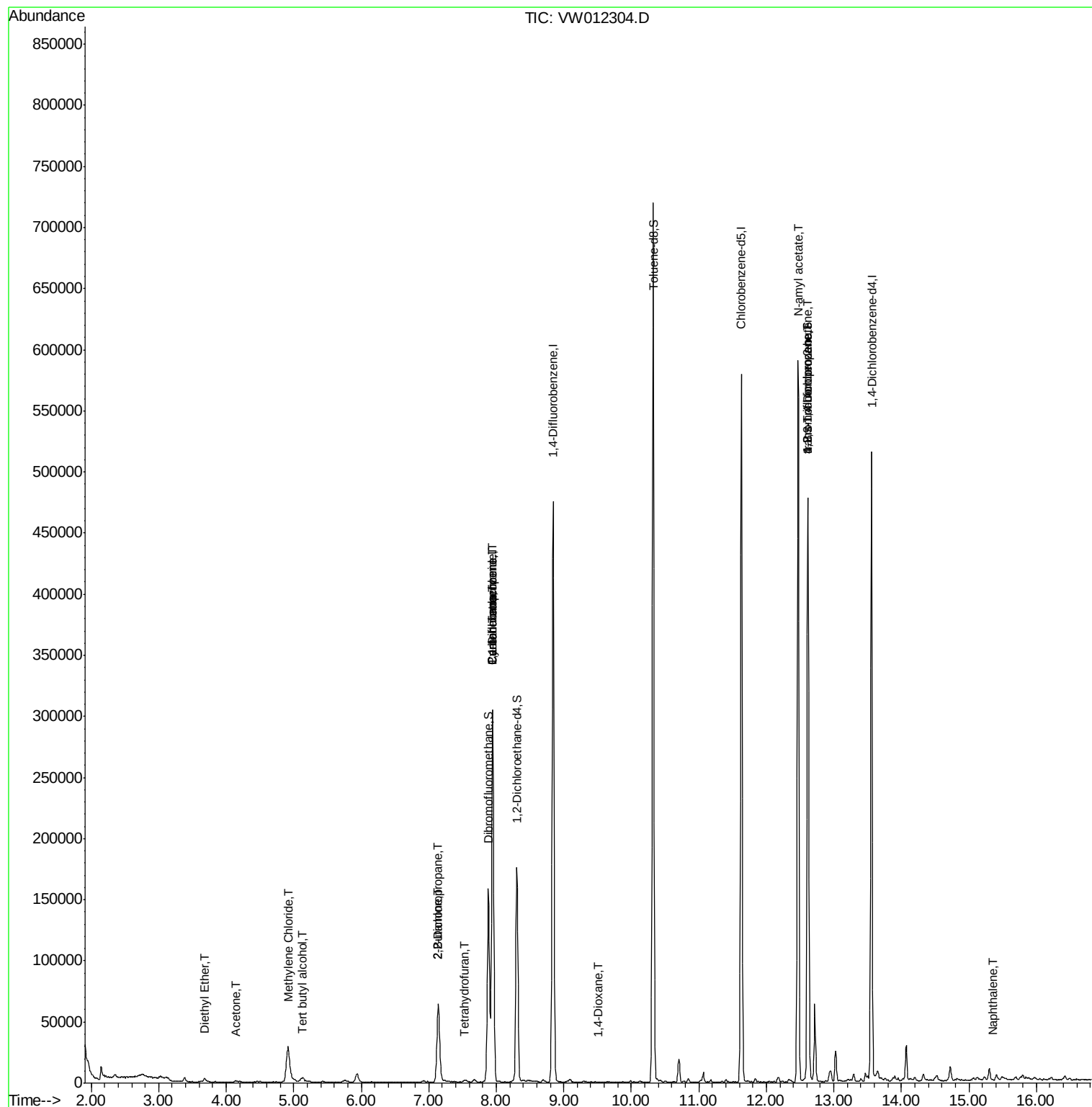
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1382	1.106	ug/l	60
11) Tert butyl alcohol	5.13	59	3804	23.680	ug/l #	71
16) Acetone	4.14	43	1900	2.784	ug/l #	75
20) Methylene Chloride	4.92	84	21235	8.232	ug/l	95
25) 2-Butanone	7.14	43	3824	4.124	ug/l	93
26) 2,2-Dichloropropane	7.13	77	4561	1.658	ug/l #	54
29) Tetrahydrofuran	7.53	42	1584	2.847	ug/l	96
31) Cyclohexane	7.95	56	5525	1.149	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19280	5.034	ug/l #	52
38) Carbon Tetrachloride	7.95	117	22324	6.734	ug/l #	16
49) 1,4-Dioxane	9.50	88	54	2.817	ug/l #	9
74) N-amyl acetate	12.47	43	16231	5.725	ug/l #	24
76) 1,2,3-Trichloropropane	12.62	75	78787	64.595	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	78787	141.628	ug/l #	6
95) Naphthalene	15.36	128	283	4.376	ug/l #	69

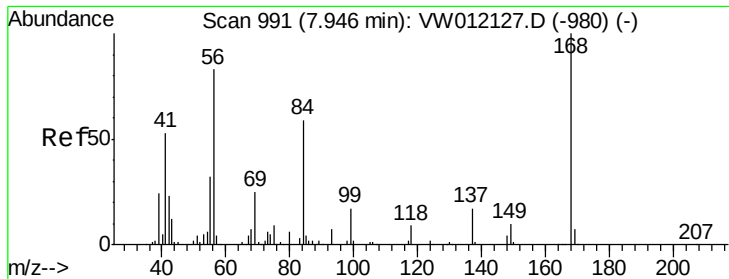
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012304.D

Acq: 29 Aug 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

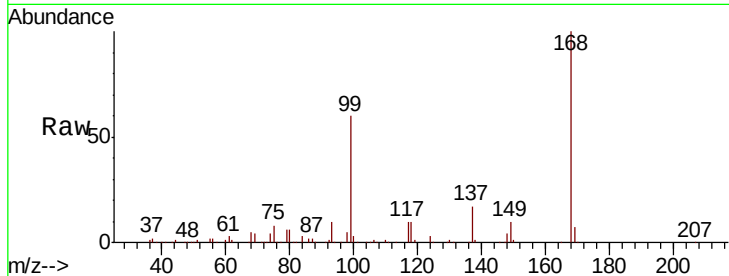
S403-K1-1.0-1.5-082819-FD

Tgt Ion:168 Resp: 22457

Ion Ratio Lower Upper

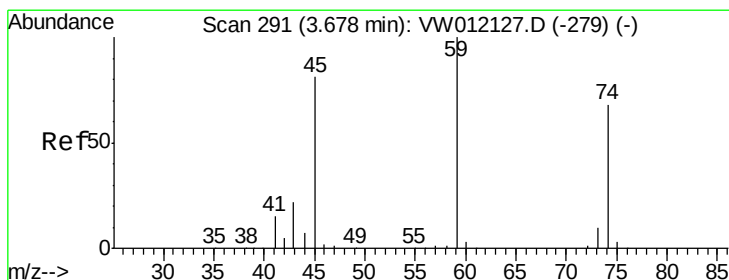
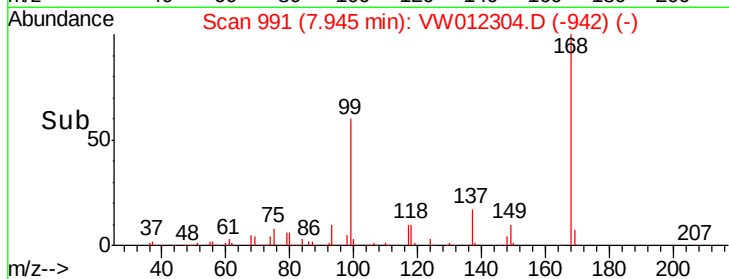
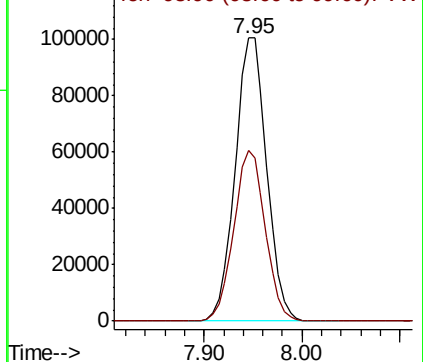
168 100

99 60.3 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.106 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012304.D

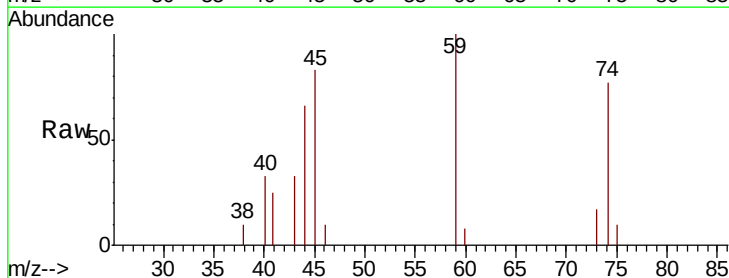
Acq: 29 Aug 2019 15:38

Tgt Ion: 74 Resp: 1382

Ion Ratio Lower Upper

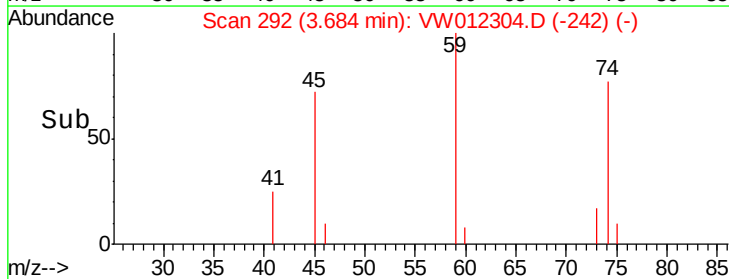
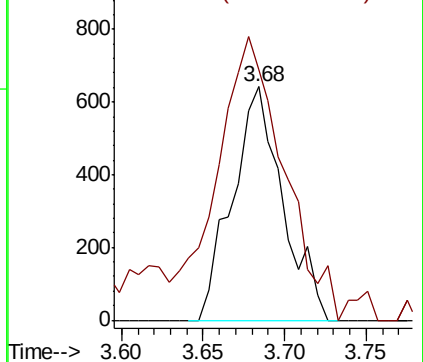
74 100

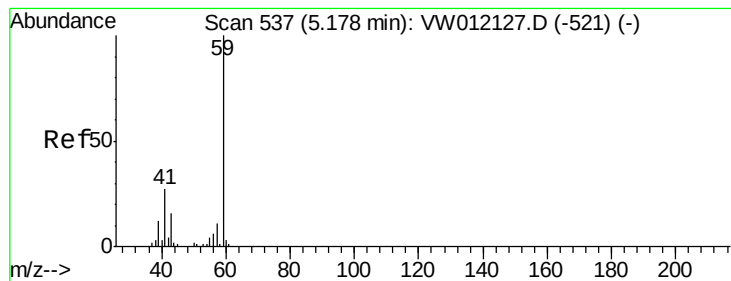
45 163.0 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



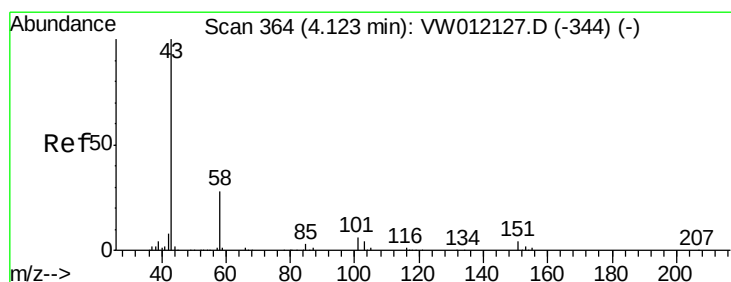
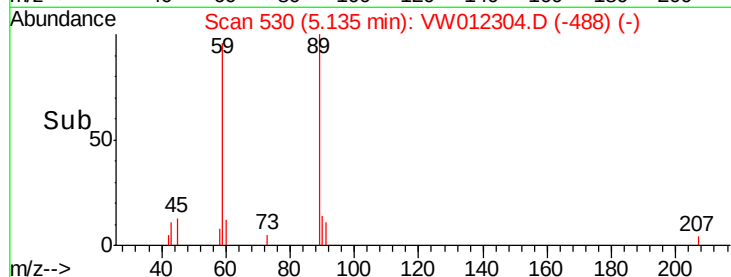
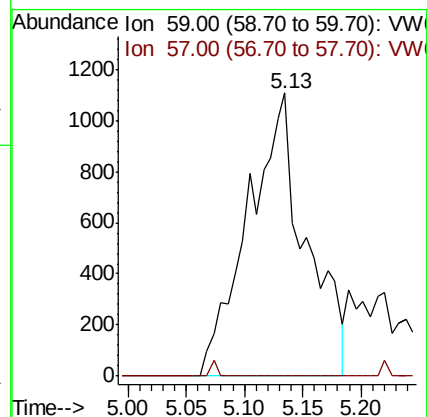
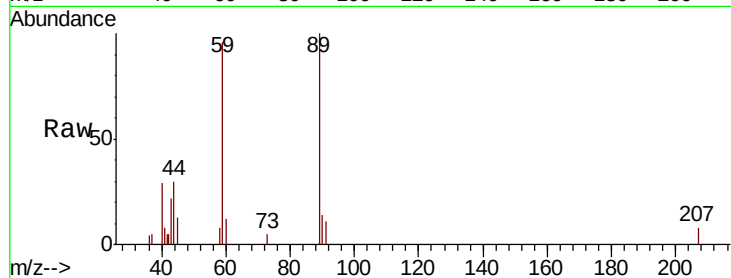


#11

Tert butyl alcohol
 Concen: 23.680 ug/l
 RT: 5.13 min Scan# 530
 Delta R.T. -0.04 min
 Lab File: VW012304.D
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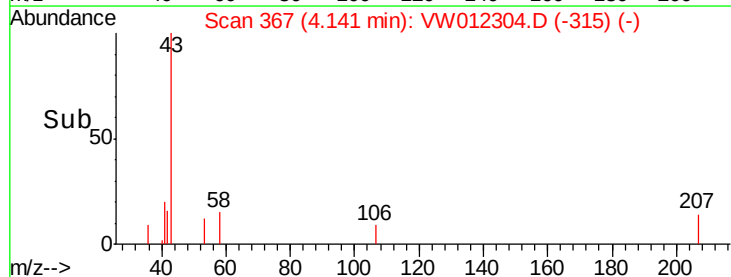
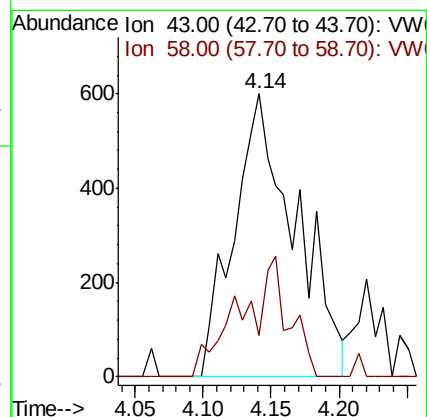
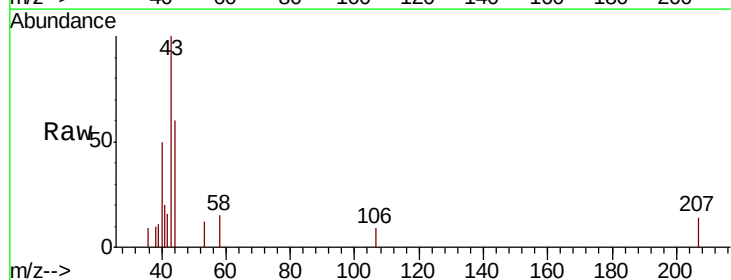
Tgt Ion: 59 Resp: 3804
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

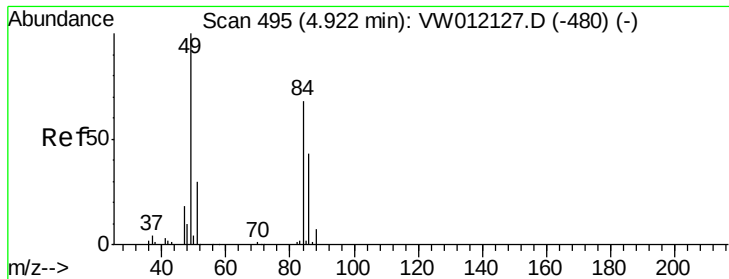


#16

Acetone
 Concen: 2.784 ug/l
 RT: 4.14 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

Tgt Ion: 43 Resp: 1900
 Ion Ratio Lower Upper
 43 100
 58 14.8 22.4 33.6#





#20

Methylene Chloride

Concen: 8.232 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW012304.D

Acq: 29 Aug 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819-FD

Tgt Ion: 84 Resp: 21235

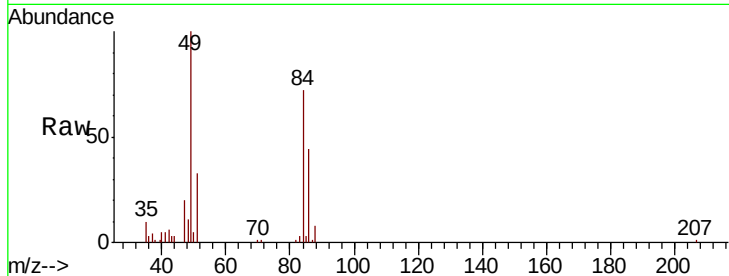
Ion Ratio Lower Upper

84 100

49 138.3 117.8 176.8

51 45.4 35.6 53.4

86 61.0 51.2 76.8

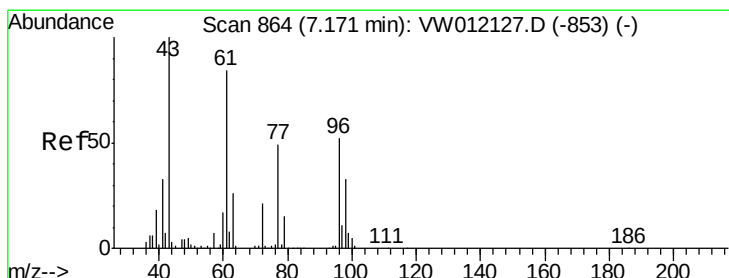
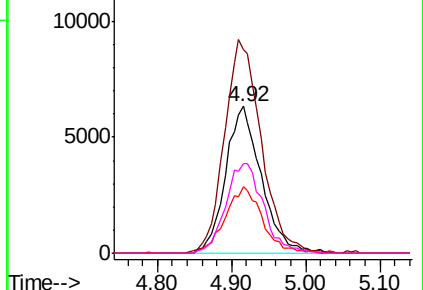
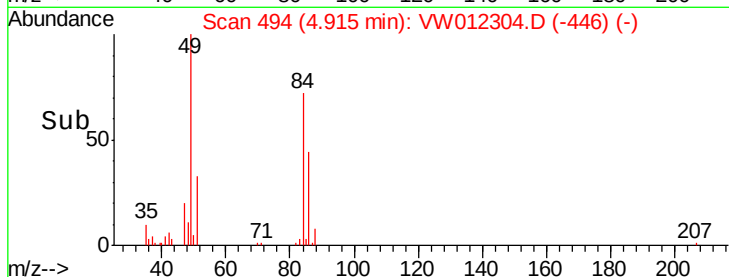


Abundance Ion 83.90 (83.60 to 84.60): VW

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: 4.124 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW012304.D

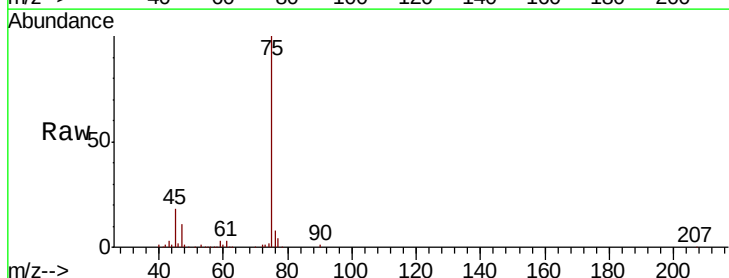
Acq: 29 Aug 2019 15:38

Tgt Ion: 43 Resp: 3824

Ion Ratio Lower Upper

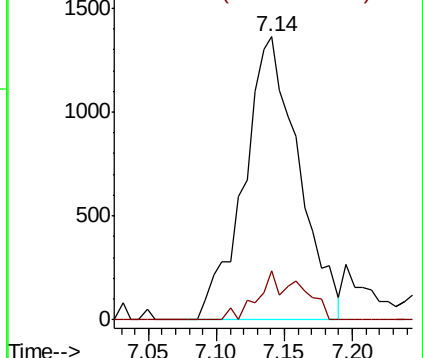
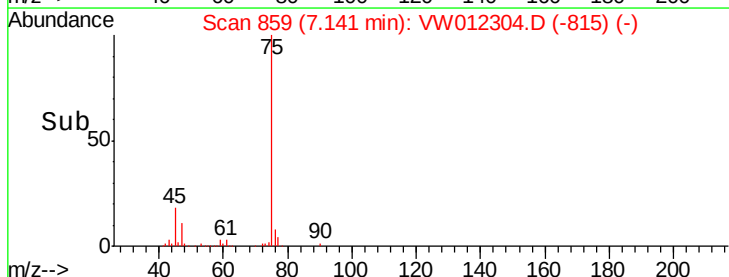
43 100

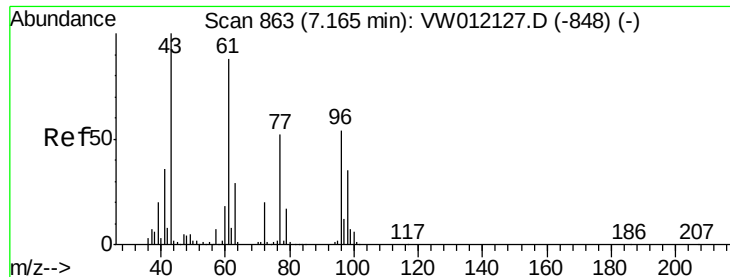
72 17.5 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

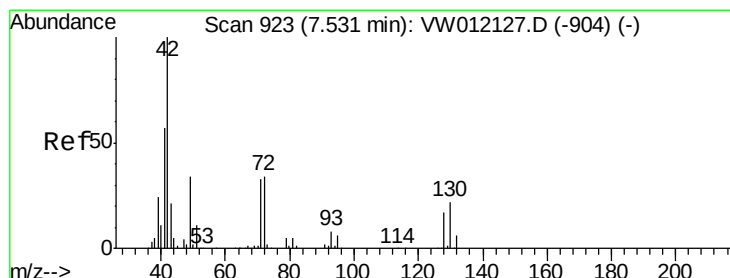
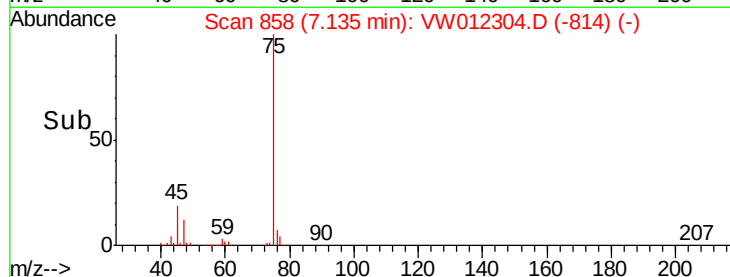
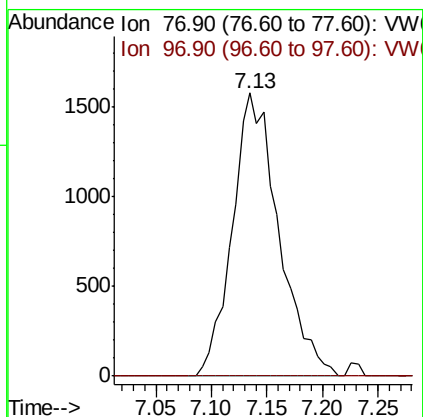
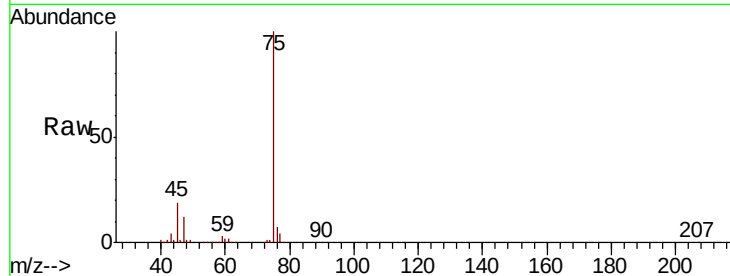




#26
 2,2-Dichloropropane
 Concen: 1.658 ug/l
 RT: 7.13 min Scan# 858
 Delta R.T. -0.03 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

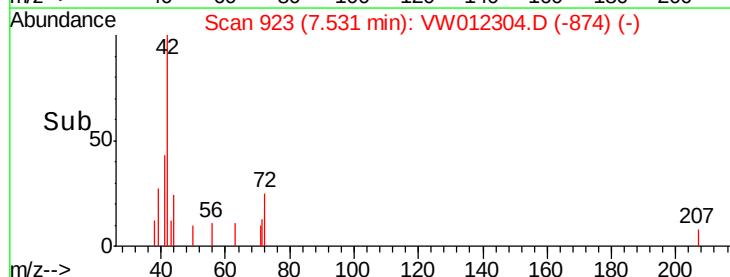
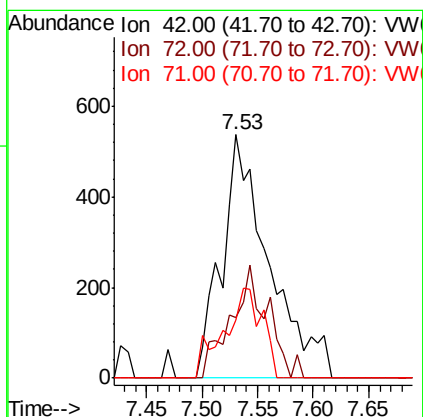
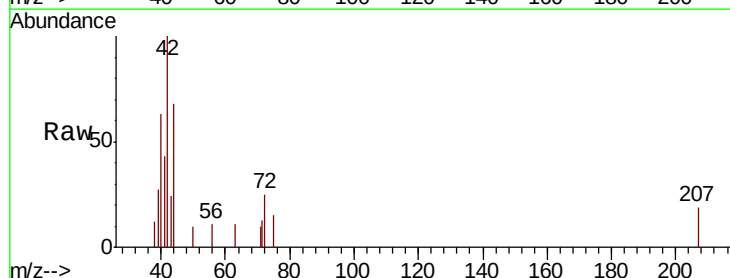
Instrument :
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 S403-K1-1.0-1.5-082819-FD

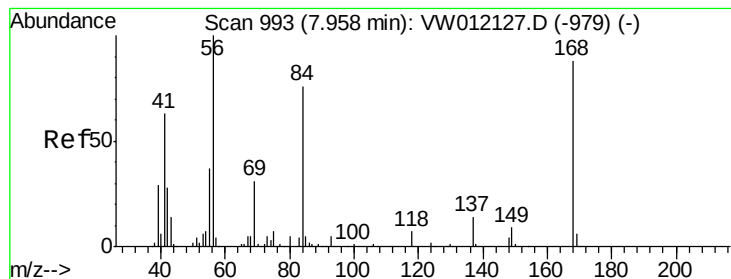
Tgt Ion: 77 Resp: 4561
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.1 33.1#



#29
 Tetrahydrofuran
 Concen: 2.847 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

Tgt Ion: 42 Resp: 1584
 Ion Ratio Lower Upper
 42 100
 72 36.6 27.3 40.9
 71 29.9 25.5 38.3





#31

Cyclohexane

Concen: 1.149 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012304.D

Acq: 29 Aug 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819-FD

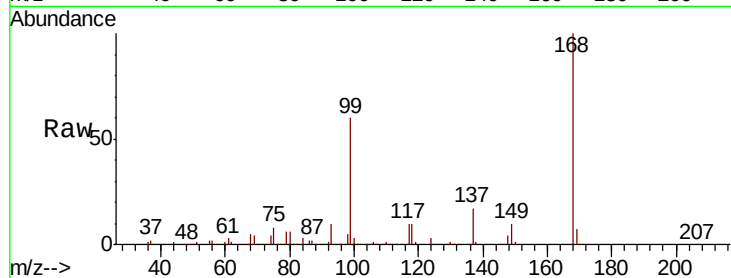
Tgt Ion: 56 Resp: 5525

Ion Ratio Lower Upper

56 100

69 188.0 24.9 37.3#

84 141.7 60.6 90.8#

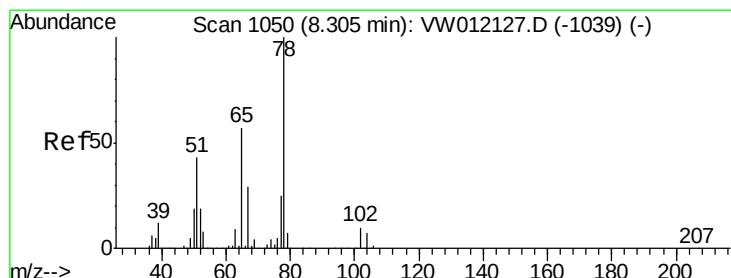
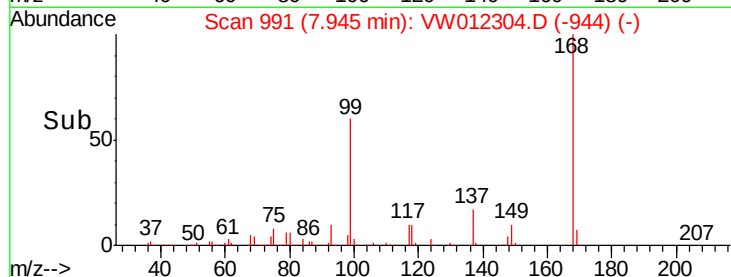
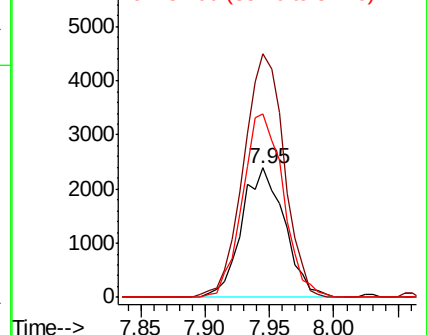


Abundance

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: 51.989 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012304.D

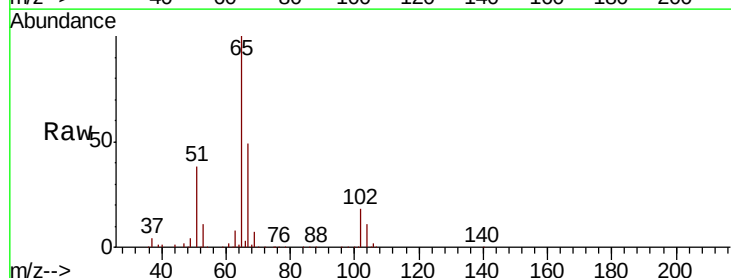
Acq: 29 Aug 2019 15:38

Tgt Ion: 65 Resp: 138780

Ion Ratio Lower Upper

65 100

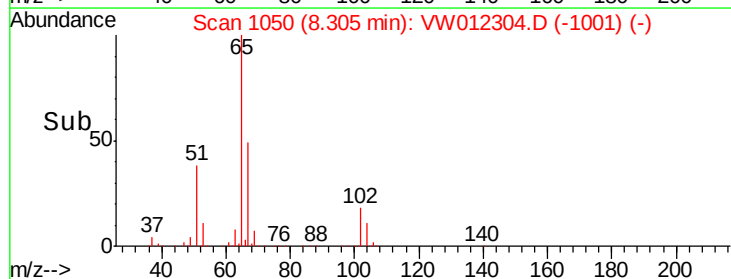
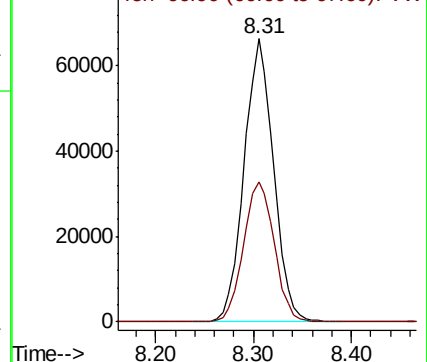
67 51.7 0.0 102.6

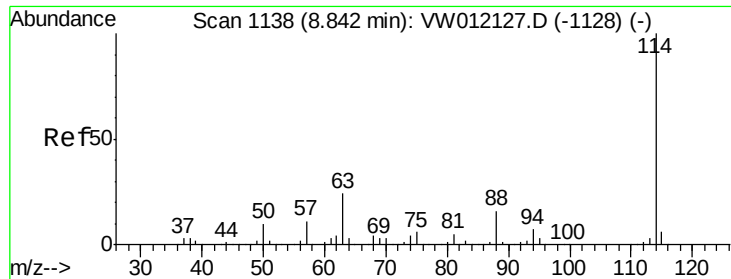


Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

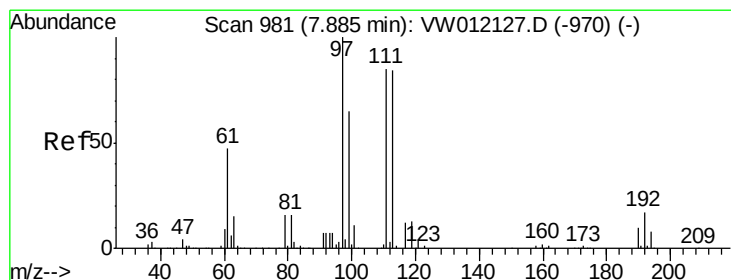
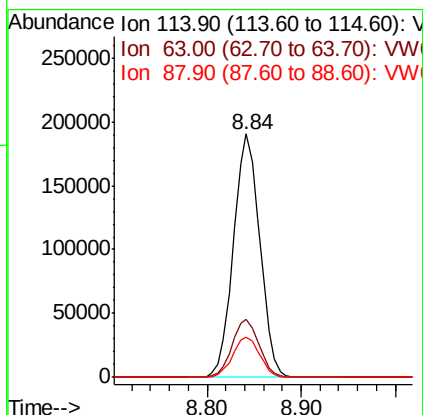
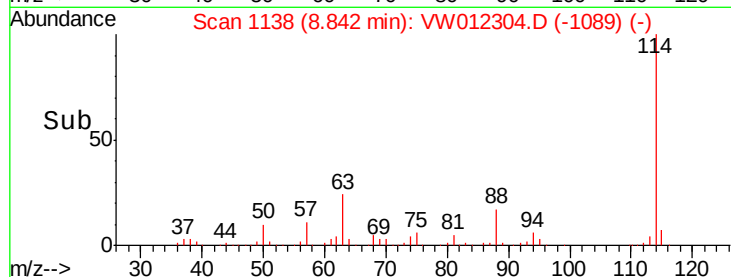
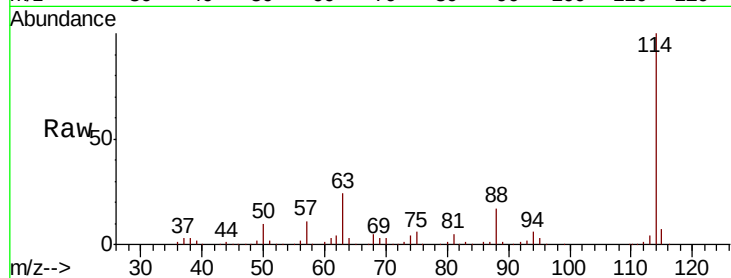




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

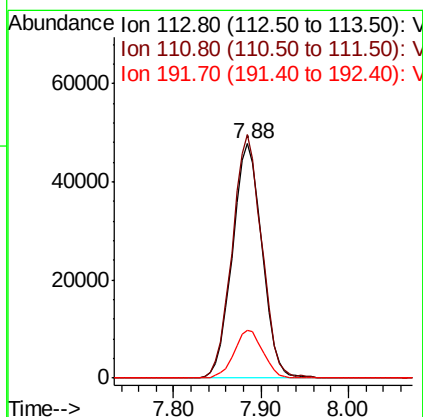
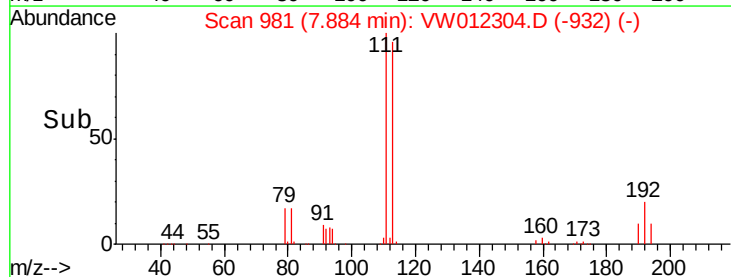
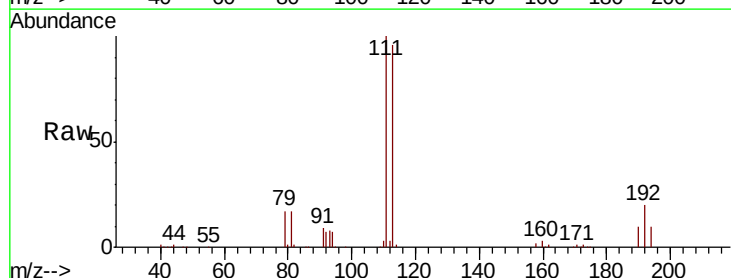
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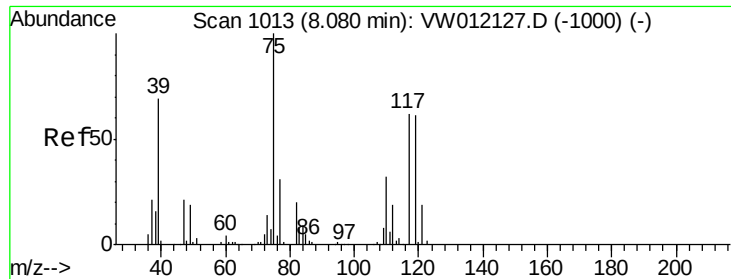
Tgt Ion:114 Resp: 370642
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 48.6
 88 16.7 0.0 32.2



#35
 Dibromofluoromethane
 Concen: 50.843 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

Tgt Ion:113 Resp: 112484
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.7 124.1
 192 19.9 16.2 24.2

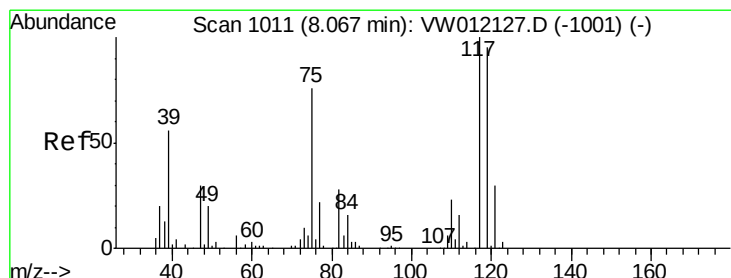
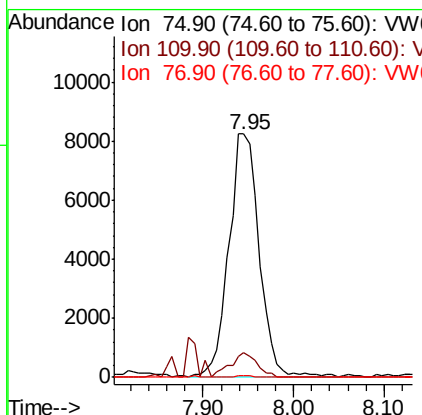
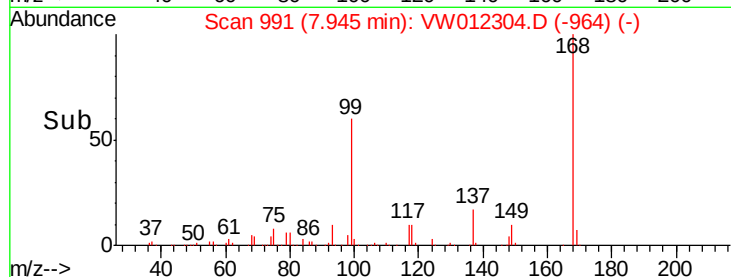
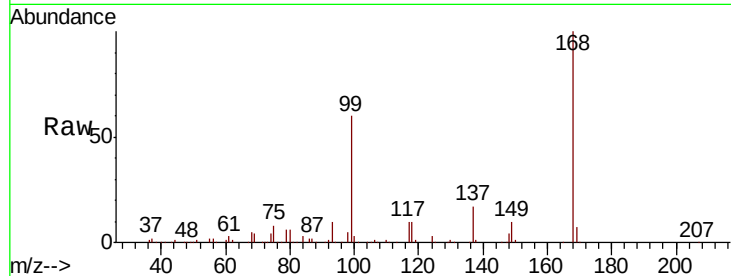




#36
 1,1-Dichloropropene
 Concen: 5.034 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

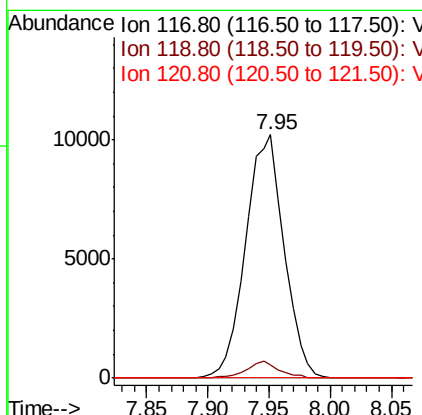
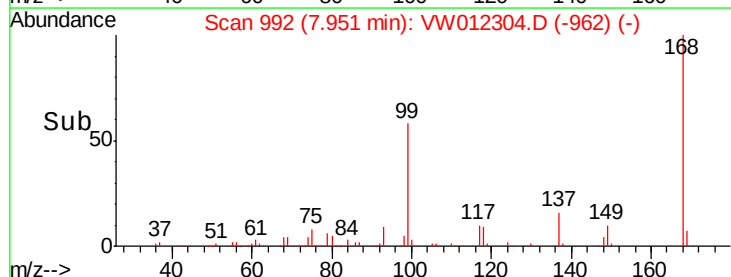
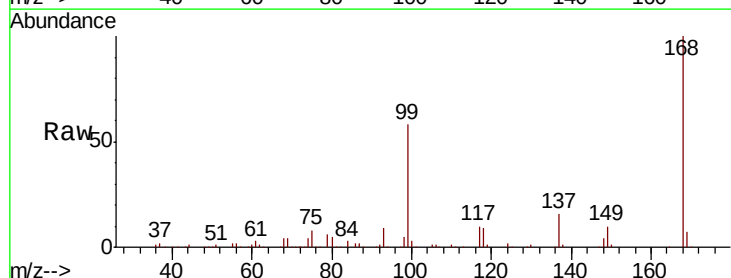
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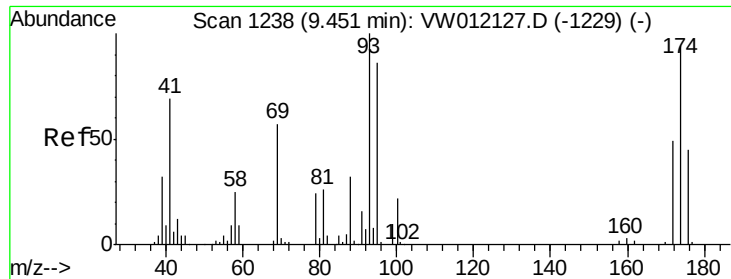
Tgt Ion: 75 Resp: 19280
 Ion Ratio Lower Upper
 75 100
 110 8.6 15.6 46.8#
 77 0.4 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.734 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

Tgt Ion: 117 Resp: 22324
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.2 114.2#
 121 0.0 23.8 35.8#





#49

1,4-Dioxane

Concen: 2.817 ug/l

RT: 9.50 min Scan# 1246

Delta R.T. 0.05 min

Lab File: VW012304.D

Acq: 29 Aug 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819-FD

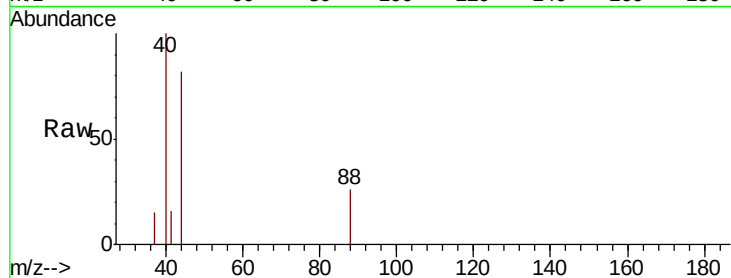
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 92.6 32.9 49.3#

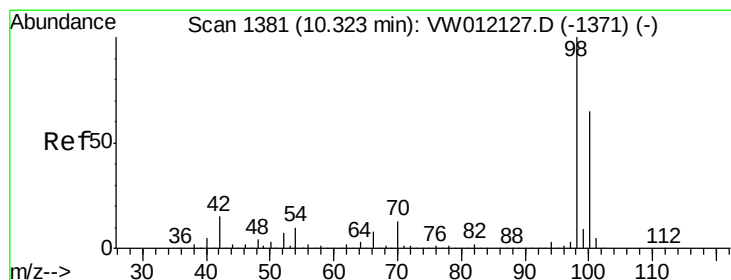
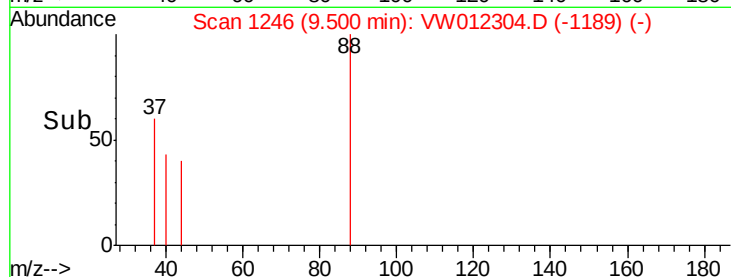
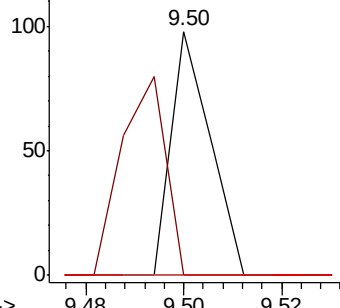
58 0.0 71.0 106.4#



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: 49.901 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012304.D

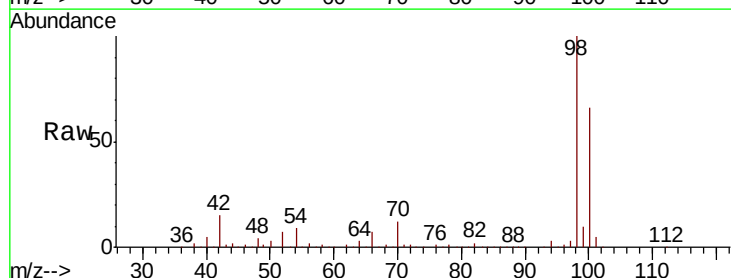
Acq: 29 Aug 2019 15:38

Tgt Ion: 98 Resp: 447642

Ion Ratio Lower Upper

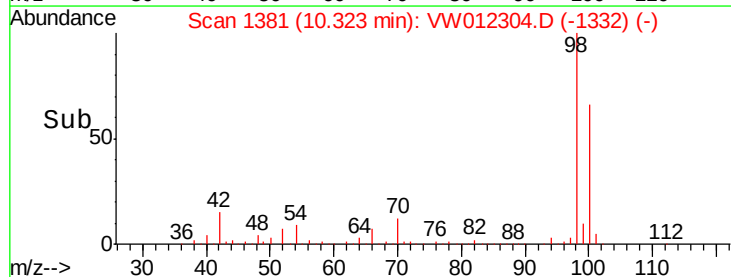
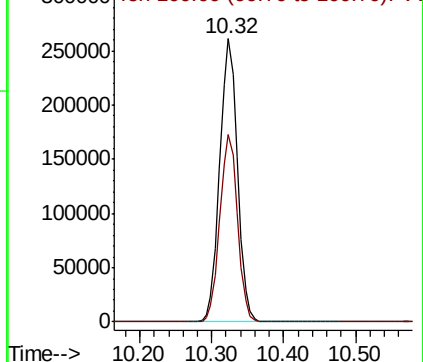
98 100

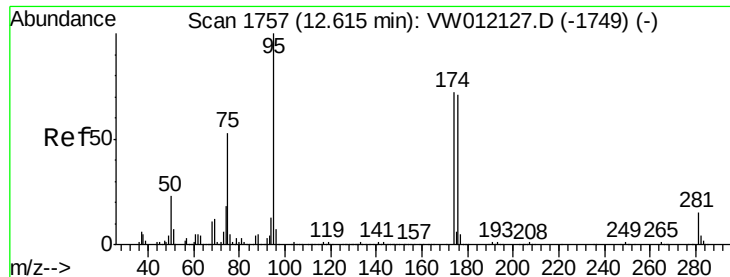
100 66.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 47.574 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012304.D

Acq: 29 Aug 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

S403-K1-1.0-1.5-082819-FD

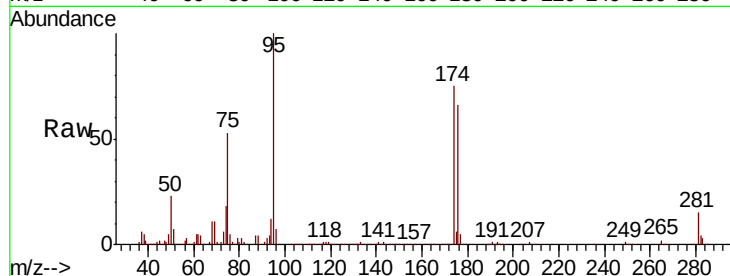
Tgt Ion: 95 Resp: 150433

Ion Ratio Lower Upper

95 100

174 76.4 0.0 150.8

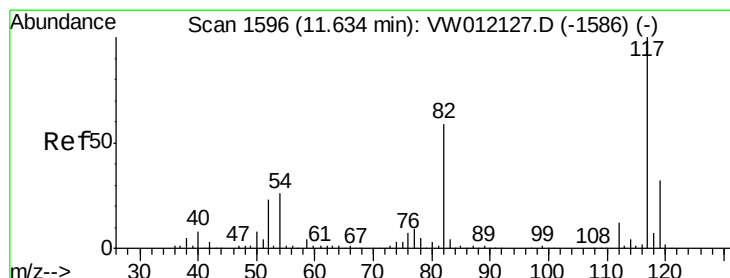
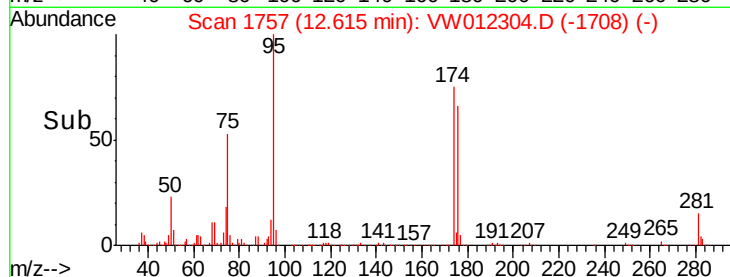
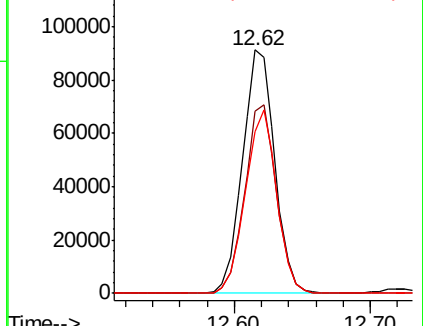
176 73.5 0.0 148.6



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: VW012304.D

Acq: 29 Aug 2019 15:38

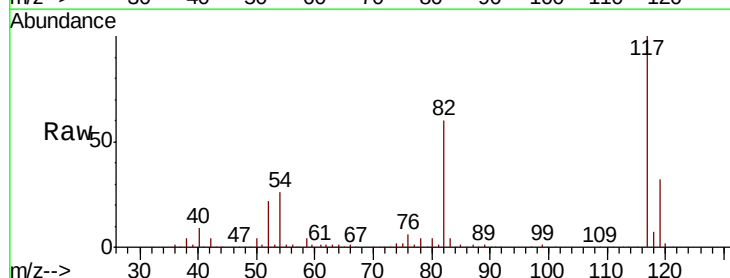
Tgt Ion: 117 Resp: 307599

Ion Ratio Lower Upper

117 100

82 59.8 47.4 71.2

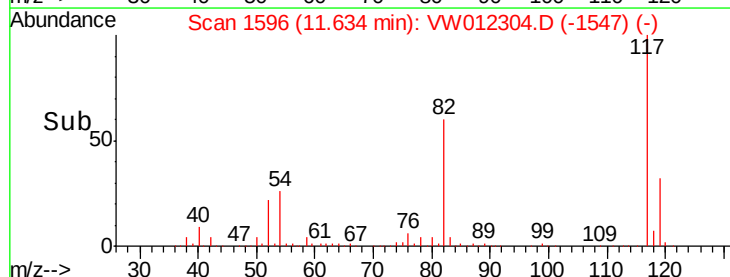
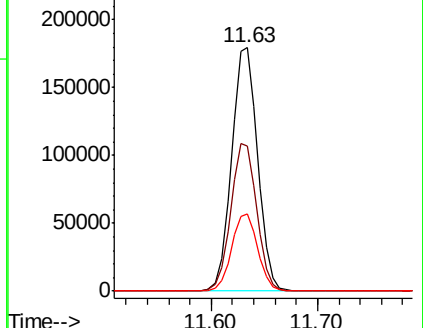
119 31.8 25.4 38.2

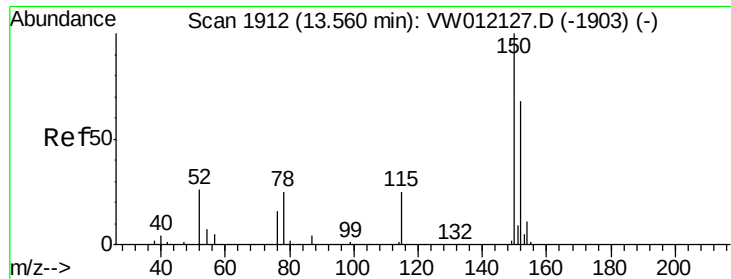


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

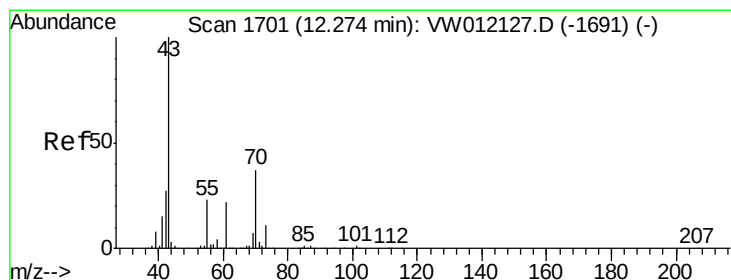
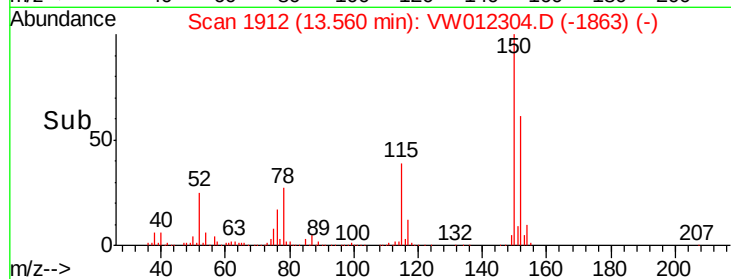
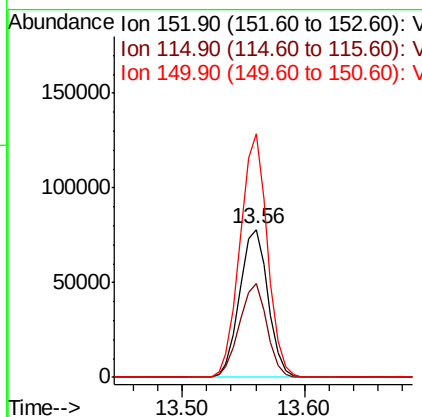
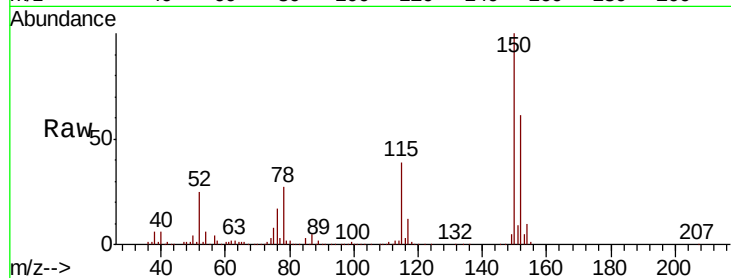




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. -0.00 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

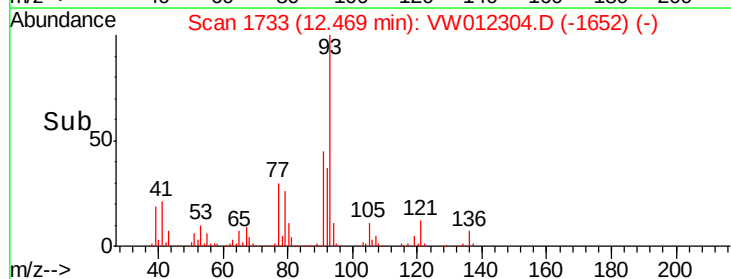
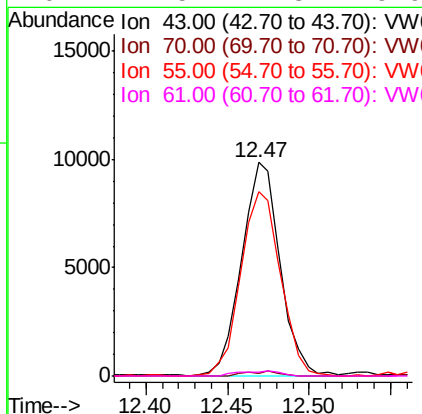
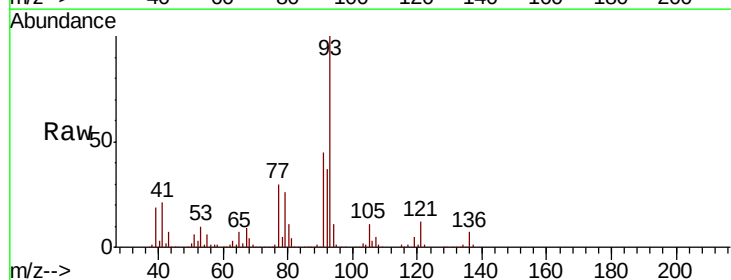
Instrument :
 MSVOA_W
 ClientSampleId :
 S403-K1-1.0-1.5-082819-FD

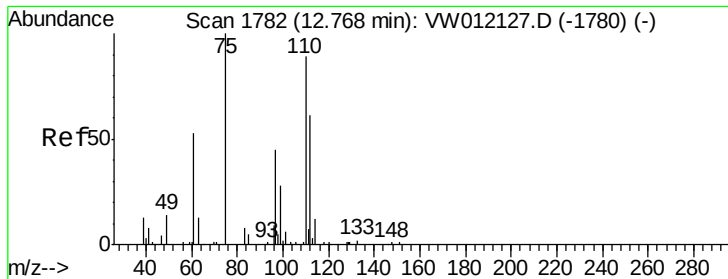
Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.8	30.1	90.3
150	158.9	0.0	345.8



#74
 N-ethyl acetate
 Concen: 5.725 ug/l
 RT: 12.47 min Scan# 1733
 Delta R.T. 0.19 min
 Lab File: VW012304.D
 Acq: 29 Aug 2019 15:38

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.0	28.6	43.0#
55	89.0	17.8	26.6#
61	2.5	17.3	25.9#





#76

1,2,3-Trichloropropane

Concen: 64.595 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012304.D

Acq: 29 Aug 2019 15:38

Instrument :

MSVOA_W

ClientSampleId :

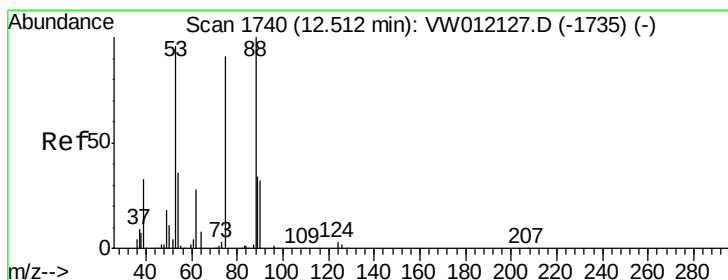
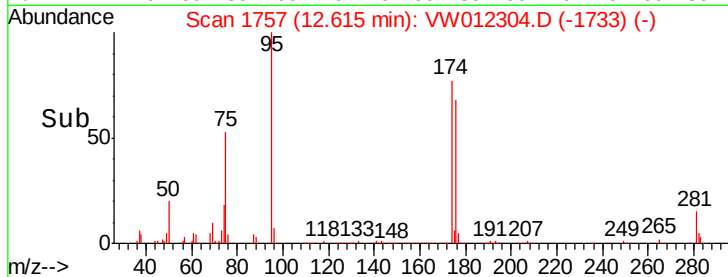
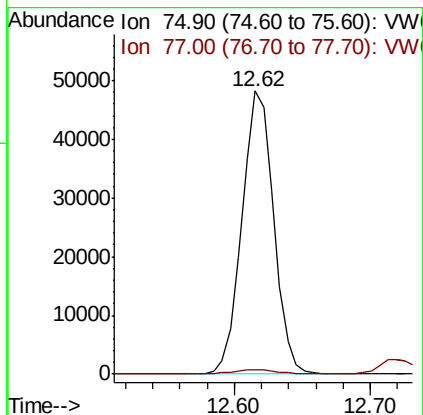
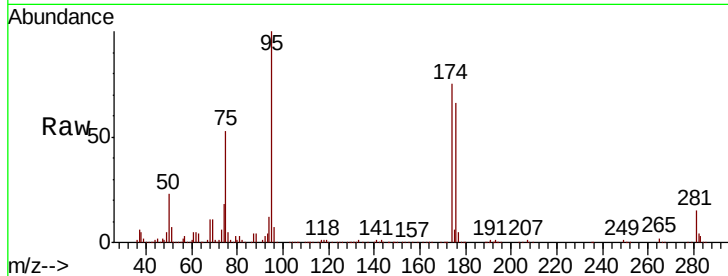
S403-K1-1.0-1.5-082819-FD

Tgt Ion: 75 Resp: 78787

Ion Ratio Lower Upper

75 100

77 2.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 141.628 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012304.D

Acq: 29 Aug 2019 15:38

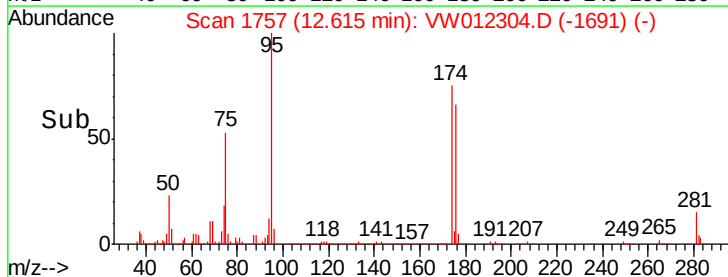
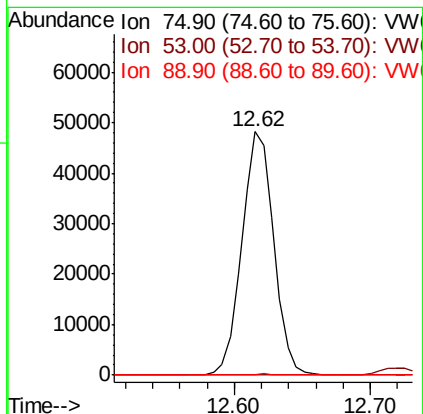
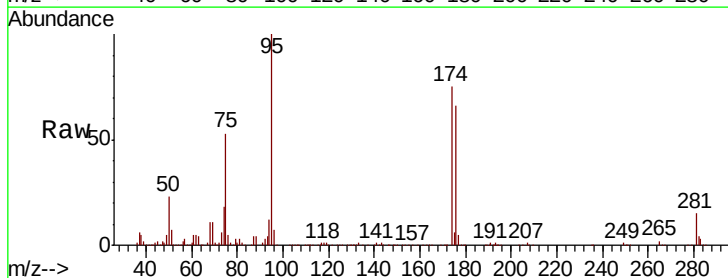
Tgt Ion: 75 Resp: 78787

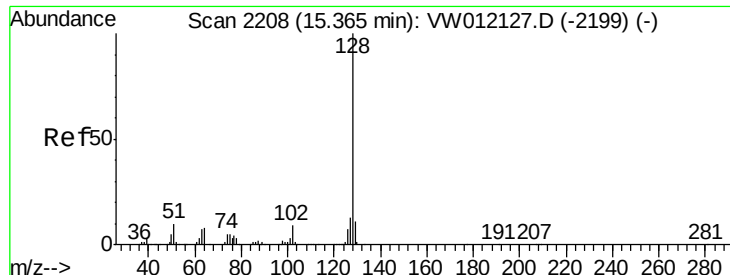
Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

89 0.1 34.5 51.7#





#95
Naphthalene
Concen: 4.376 ug/l
RT: 15.36 min Scan# 2207
Delta R.T. -0.01 min
Lab File: VW012304.D
Acq: 29 Aug 2019 15:38

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

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

