

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081719\
 Data File : VW011974.D
 Acq On : 16 Aug 2019 19:08
 Operator : SY/VA
 Sample : K4389-01
 Misc : 5.13G/5ML/MSVOA_W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T6-E1-(2)

Quant Time: Aug 17 05:01:32 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	208242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	348477	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	269538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	88031	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	130413	54.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.08%	
35) Dibromofluoromethane	7.88	113	104382	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
50) Toluene-d8	10.32	98	419487	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
62) 4-Bromofluorobenzene	12.62	95	134016	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	

Target Compounds

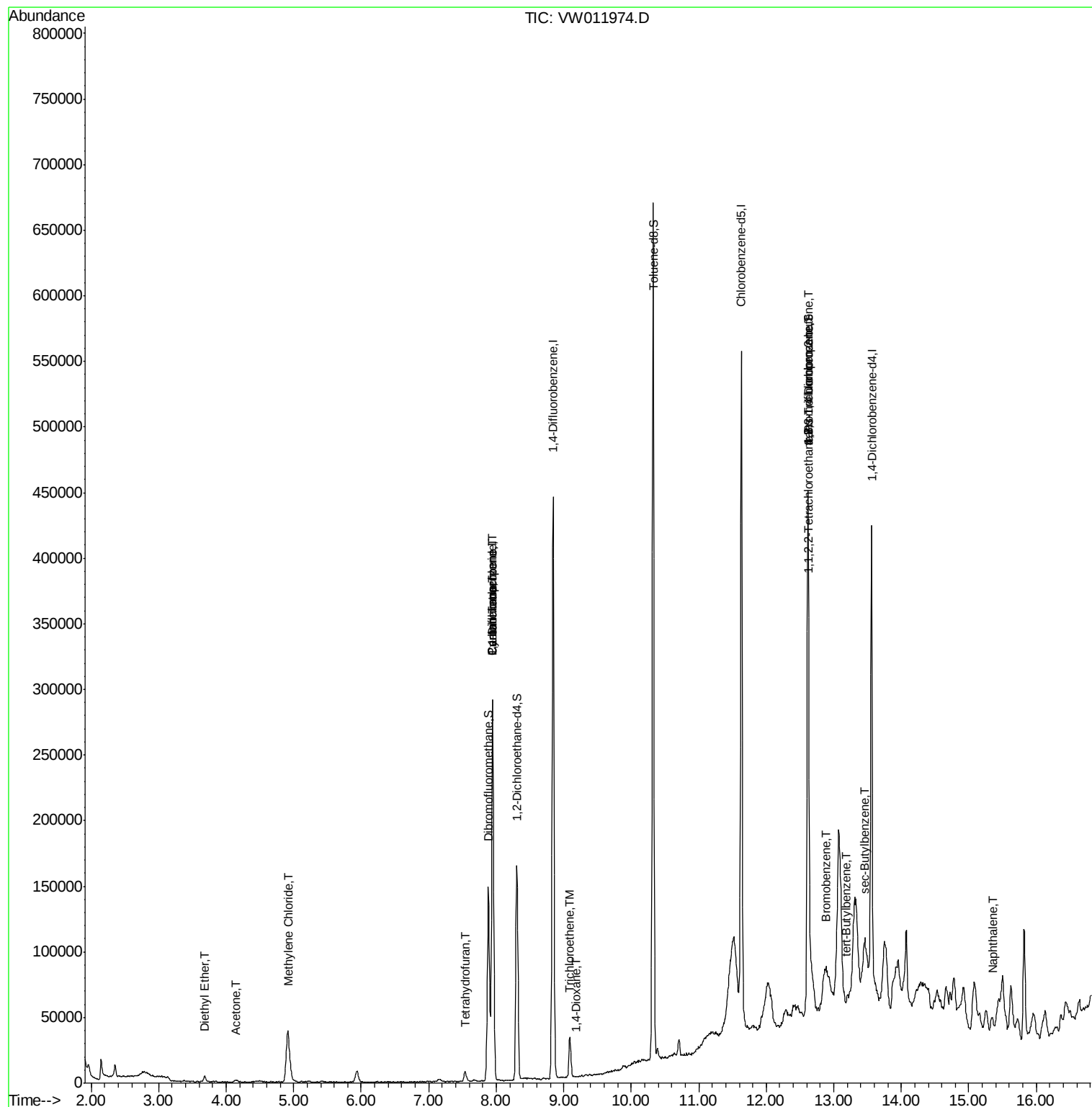
					Qvalue	
8) Diethyl Ether	3.68	74	2066	1.683	ug/l	75
11) Tert butyl alcohol	5.15	59	89	Below	Cal #	72
16) Acetone	4.14	43	3027	3.980	ug/l	93
20) Methylene Chloride	4.92	84	31376	11.961	ug/l	95
29) Tetrahydrofuran	7.54	42	6945	12.207	ug/l	97
31) Cyclohexane	7.95	56	5176	1.158	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17687	4.881	ug/l #	53
38) Carbon Tetrachloride	7.95	117	21084	6.797	ug/l #	17
44) Trichloroethene	9.09	130	10579	4.337	ug/l	96
49) 1,4-Dioxane	9.18	88	23	1.282	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.63	83	21167	17.135	ug/l #	28
76) 1,2,3-Trichloropropane	12.62	75	63144	67.790	ug/l #	100
77) Bromobenzene	12.88	156	55795	38.437	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	63144	156.232	ug/l #	8
83) tert-Butylbenzene	13.18	119	5967	1.296	ug/l #	31
85) sec-Butylbenzene	13.44	105	7870	1.198	ug/l #	57
95) Naphthalene	15.36	128	437	2.186	ug/l #	1

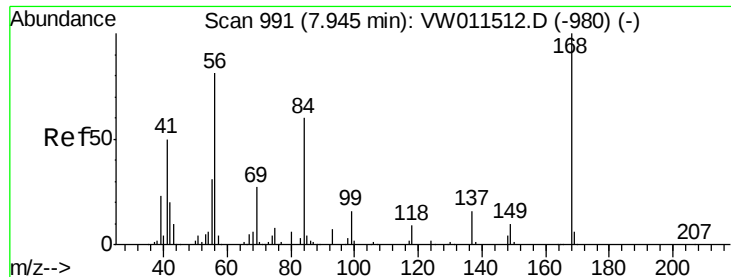
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampled :

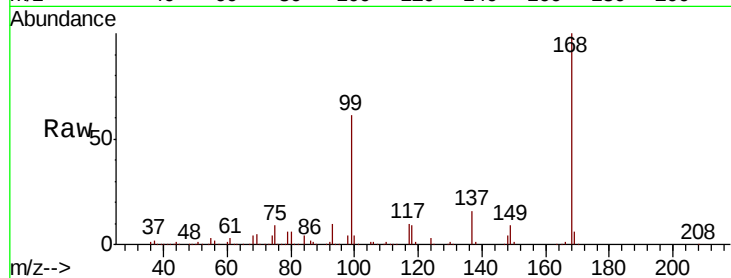
T6-E1-(2)

Tgt Ion:168 Resp: 208242

Ion Ratio Lower Upper

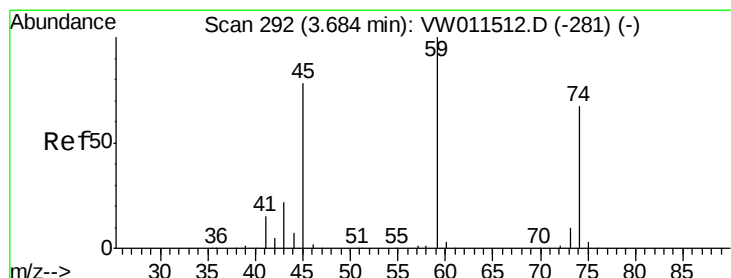
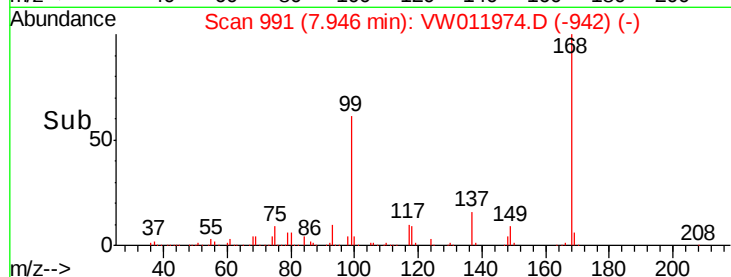
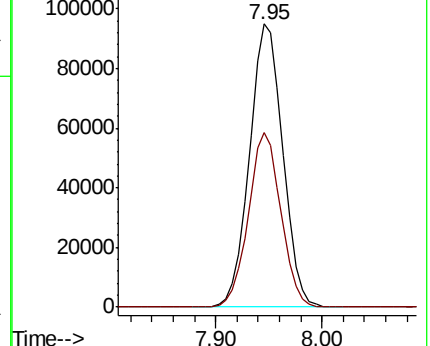
168 100

99 61.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.683 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW011974.D

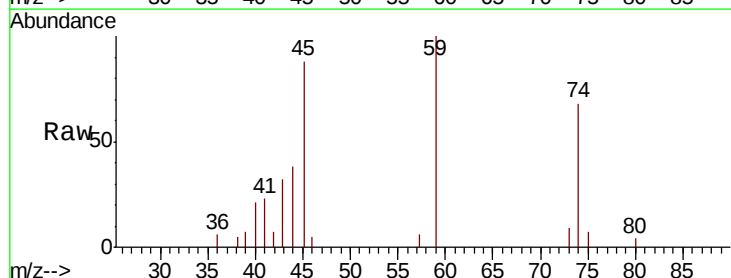
Acq: 16 Aug 2019 19:08

Tgt Ion: 74 Resp: 2066

Ion Ratio Lower Upper

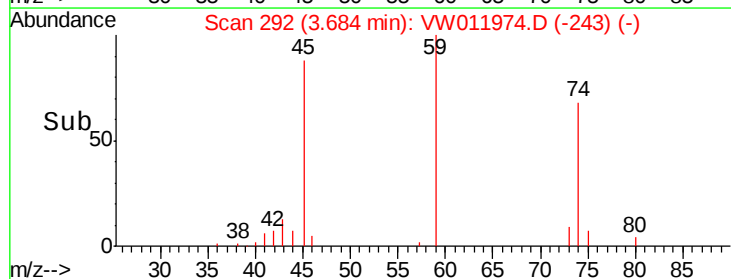
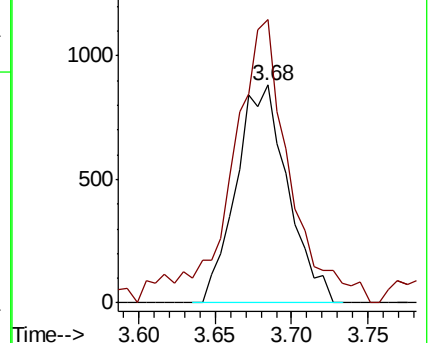
74 100

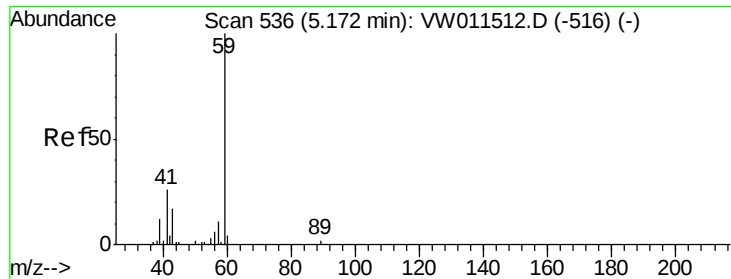
45 146.6 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



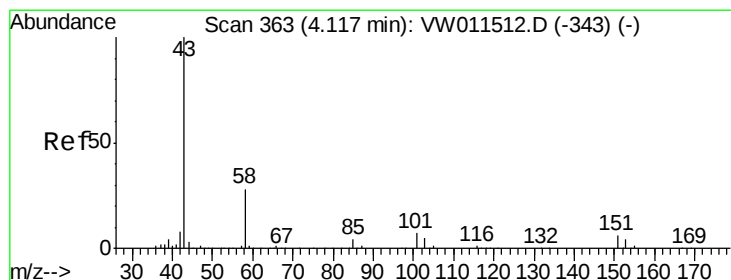
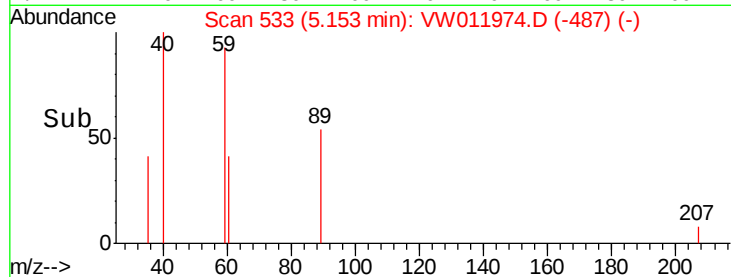
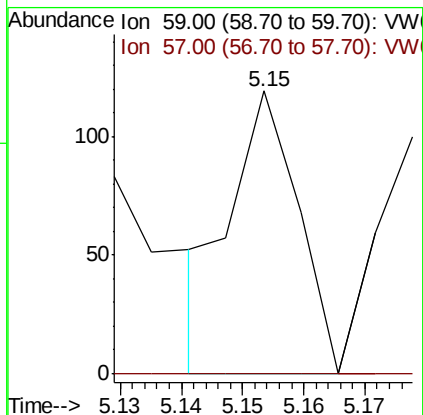
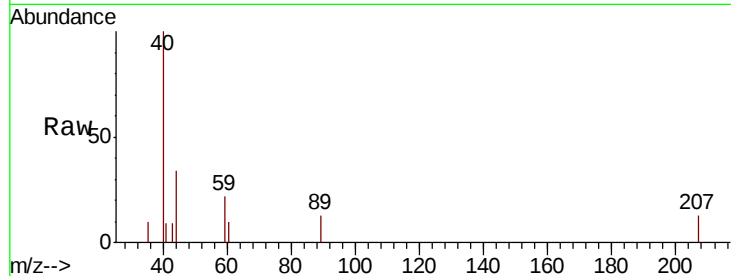


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.15 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

Instrument :
 MSVOA_W
 ClientSampled :
 T6-E1-(2)

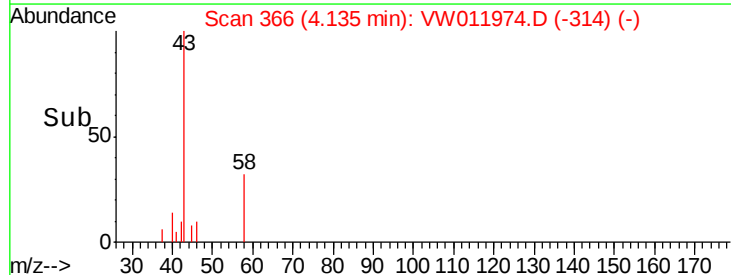
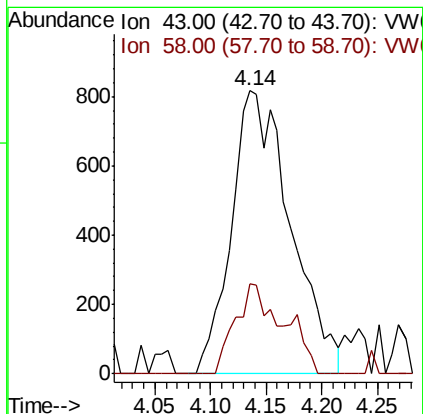
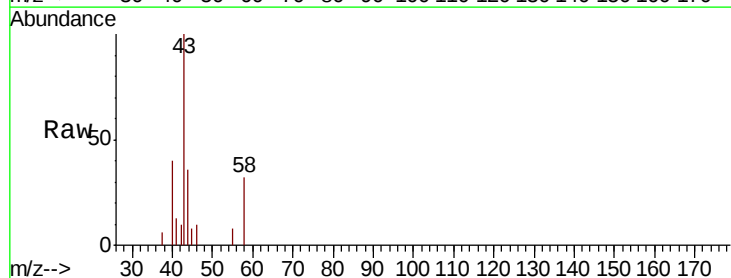
Tgt Ion: 59 Resp: 89
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

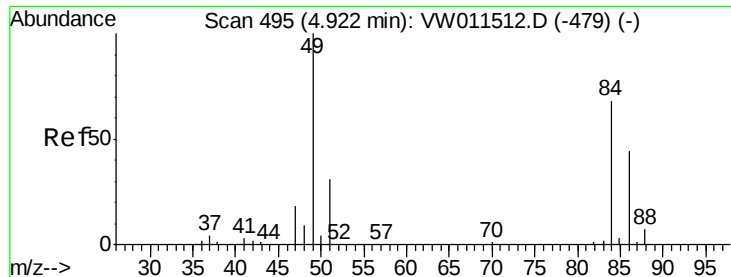


#16

Acetone
 Concen: 3.980 ug/l
 RT: 4.14 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

Tgt Ion: 43 Resp: 3027
 Ion Ratio Lower Upper
 43 100
 58 31.6 22.3 33.5

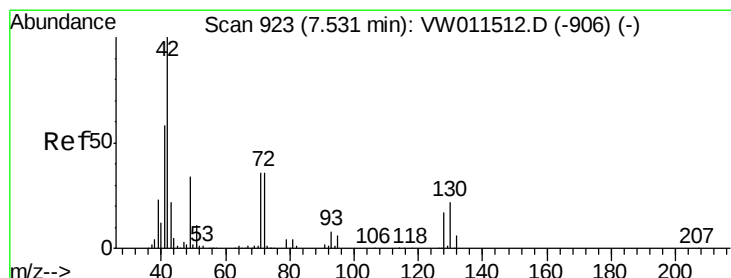
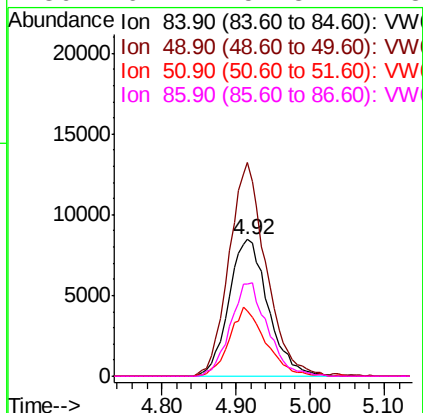
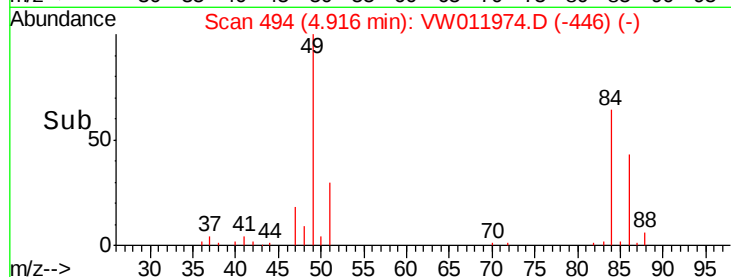
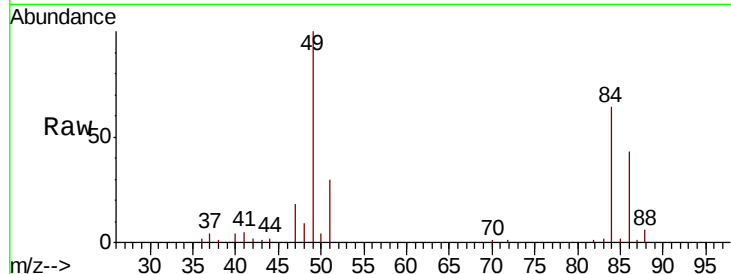




#20
Methylene Chloride
Concen: 11.961 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW011974.D
Acq: 16 Aug 2019 19:08

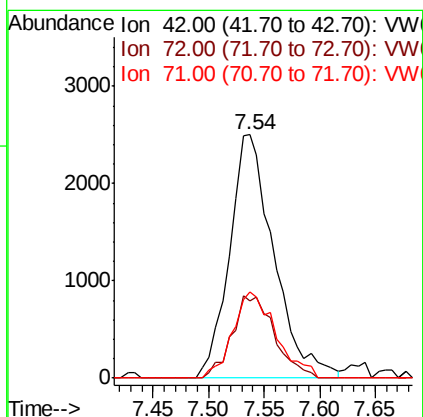
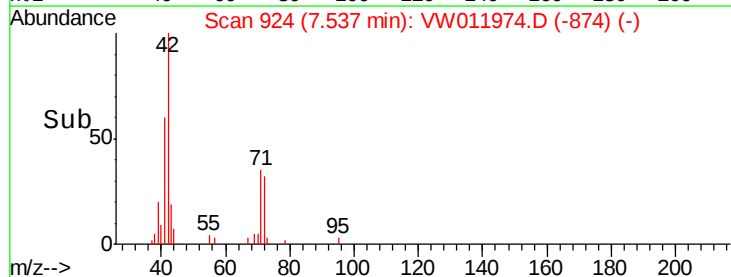
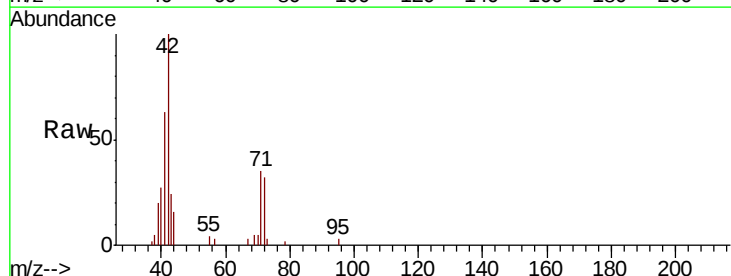
Instrument :
MSVOA_W
ClientSampleId :
T6-E1-(2)

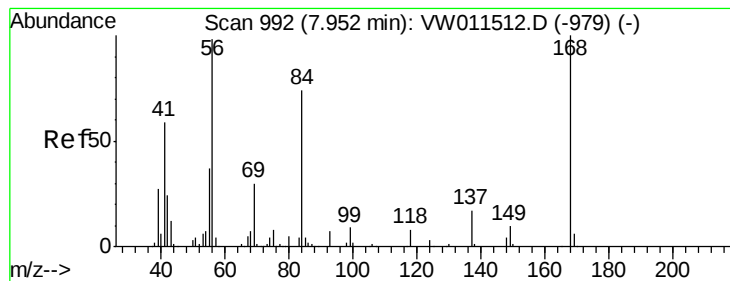
Tgt Ion:	84	Resp:	31376
Ion	Ratio	Lower	Upper
84	100		
49	156.3	117.8	176.6
51	47.6	37.0	55.4
86	67.4	51.8	77.8



#29
Tetrahydrofuran
Concen: 12.207 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW011974.D
Acq: 16 Aug 2019 19:08

Tgt Ion:	42	Resp:	6945
Ion	Ratio	Lower	Upper
42	100		
72	32.3	27.1	40.7
71	34.3	26.2	39.4





#31

Cyclohexane

Concen: 1.158 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampled :

T6-E1-(2)

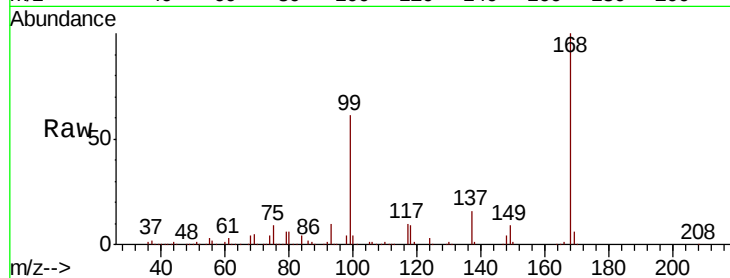
Tgt Ion: 56 Resp: 5176

Ion Ratio Lower Upper

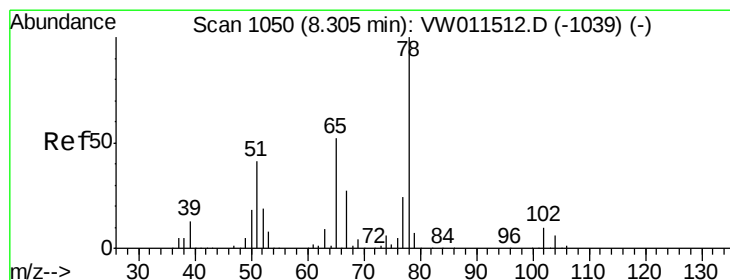
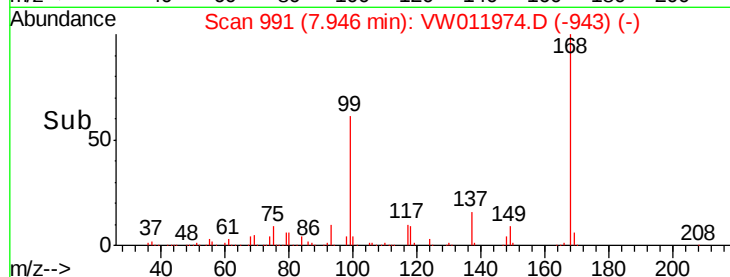
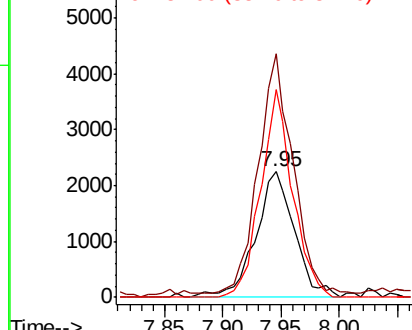
56 100

69 191.1 24.3 36.5#

84 166.2 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: 54.539 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011974.D

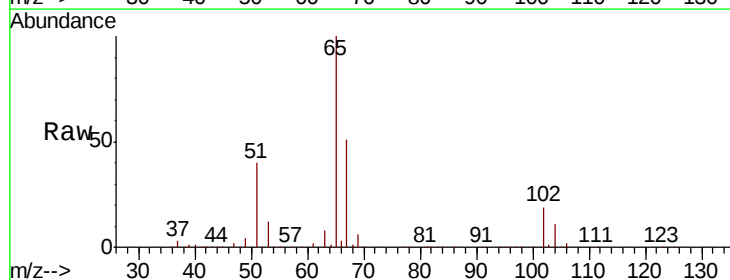
Acq: 16 Aug 2019 19:08

Tgt Ion: 65 Resp: 130413

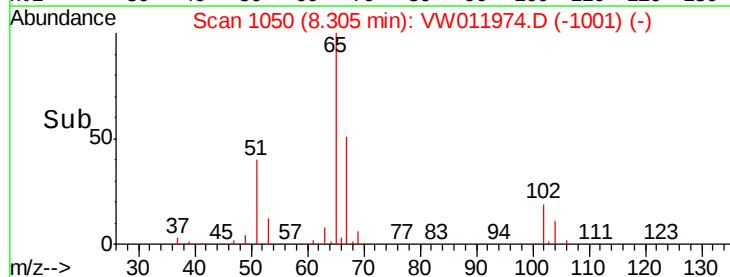
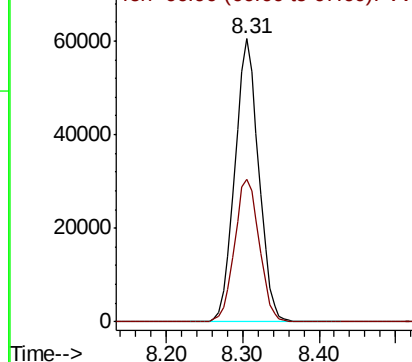
Ion Ratio Lower Upper

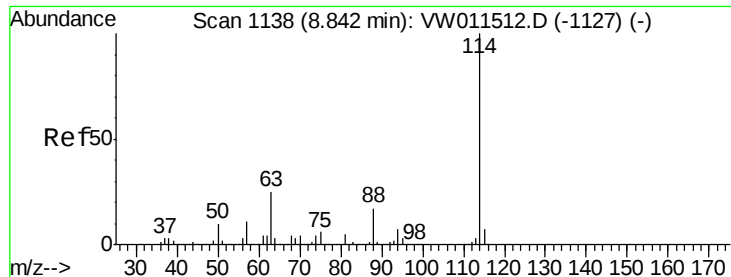
65 100

67 52.3 0.0 105.2



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

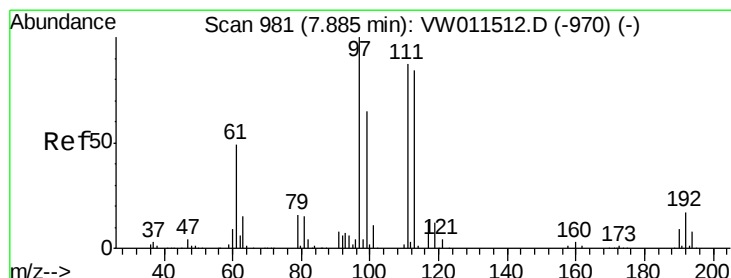
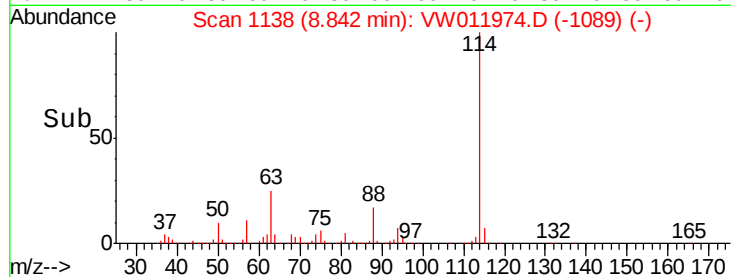
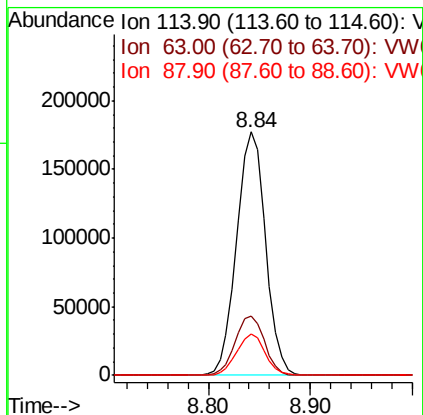
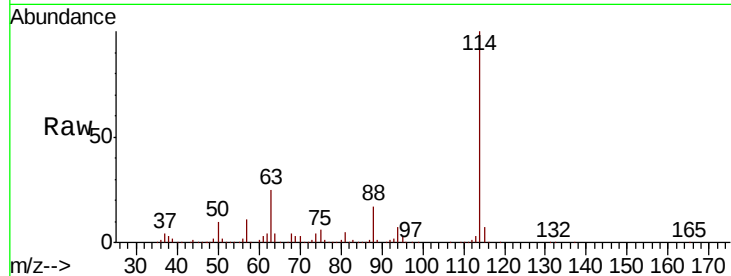




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

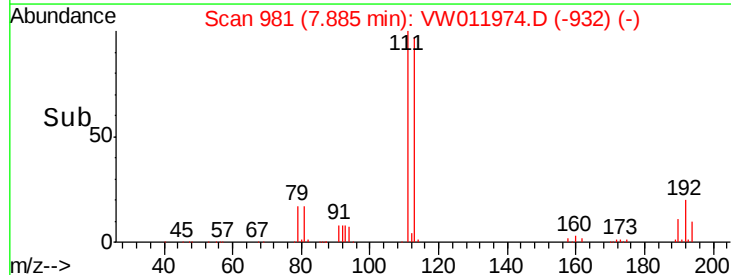
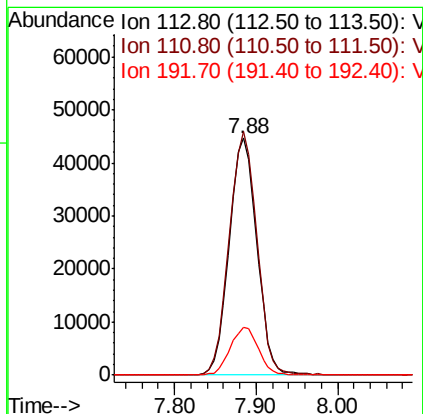
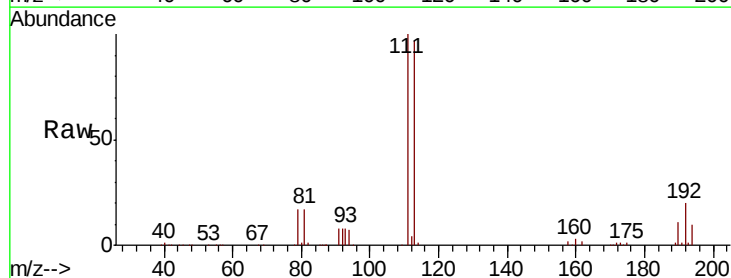
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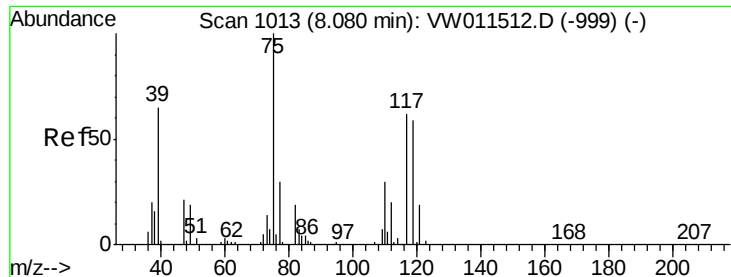
Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	49.2
88	16.8	0.0	33.8



#35
 Dibromofluoromethane
 Concen: 53.392 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.7	124.1
192	20.4	16.1	24.1

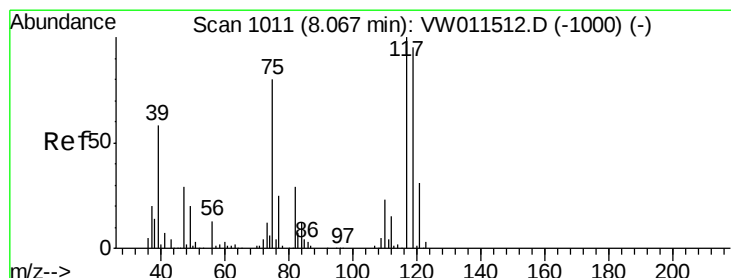
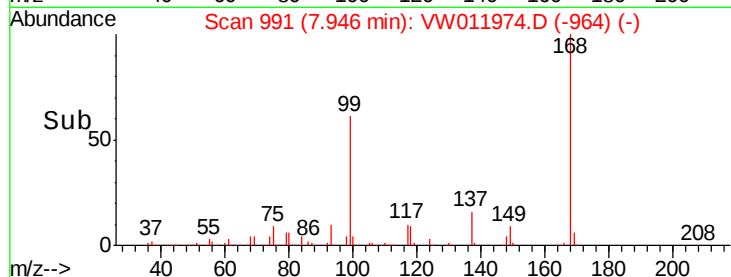
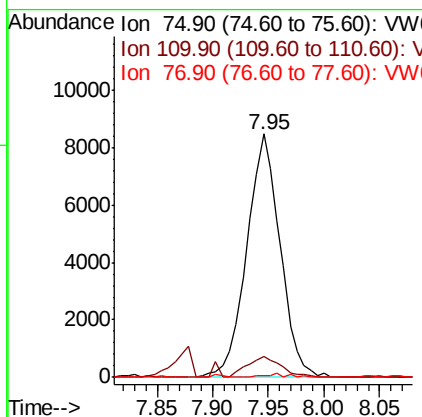
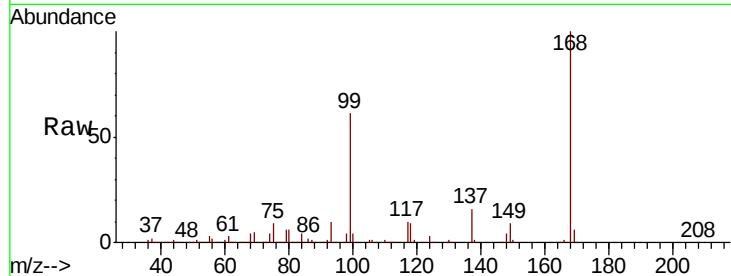




#36
 1,1-Dichloropropene
 Concen: 4.881 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

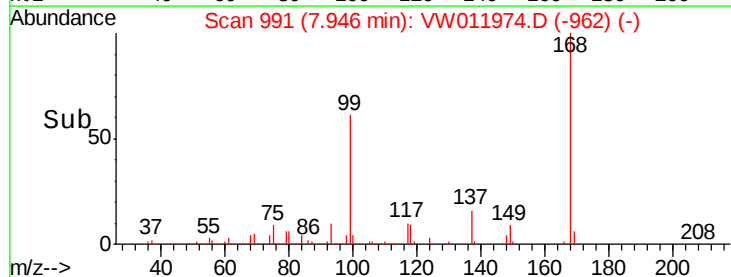
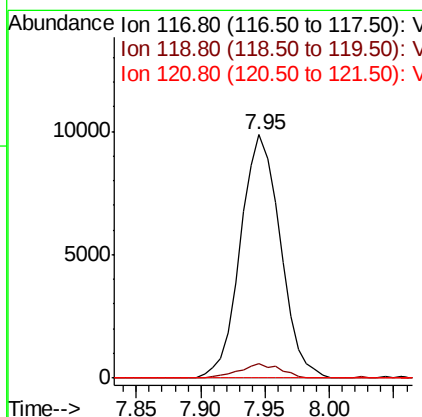
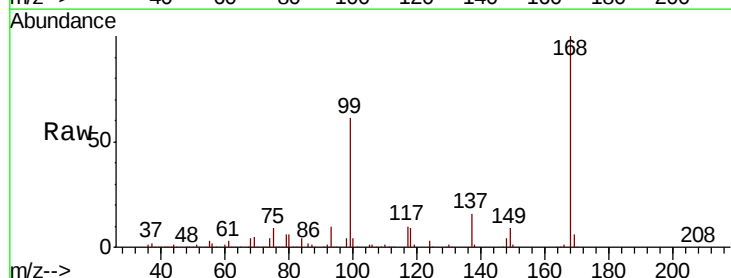
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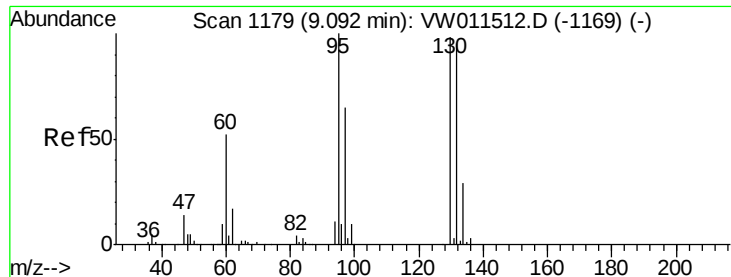
Tgt Ion: 75 Resp: 17687
 Ion Ratio Lower Upper
 75 100
 110 8.7 15.6 46.8#
 77 1.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.797 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

Tgt Ion: 117 Resp: 21084
 Ion Ratio Lower Upper
 117 100
 119 5.7 75.8 113.6#
 121 0.0 24.7 37.1#

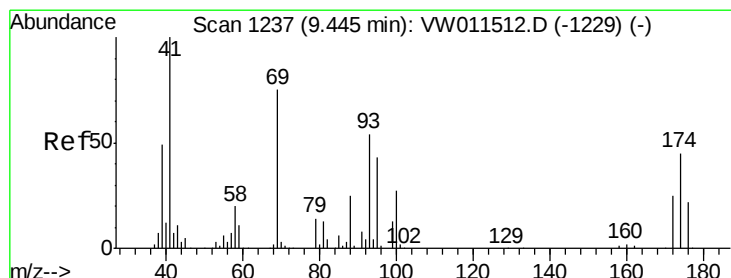
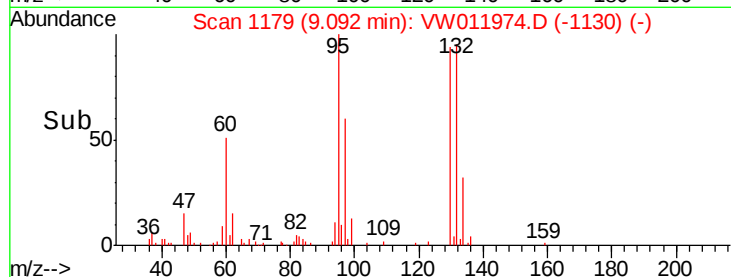
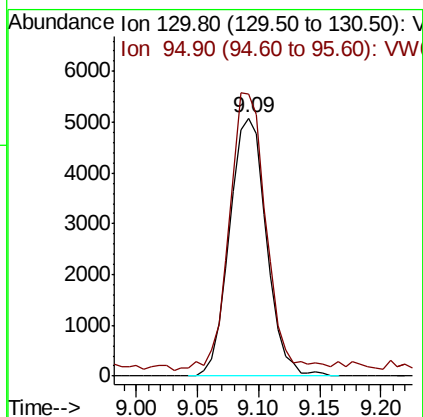
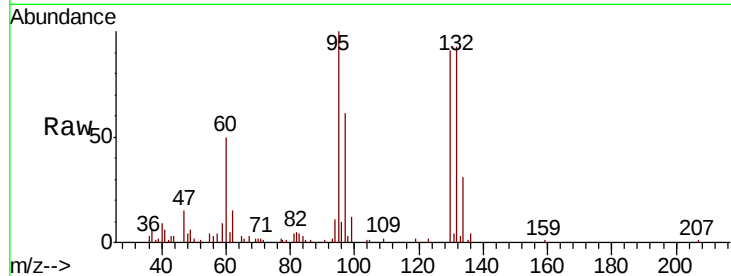




#44
 Trichloroethene
 Concen: 4.337 ug/l
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

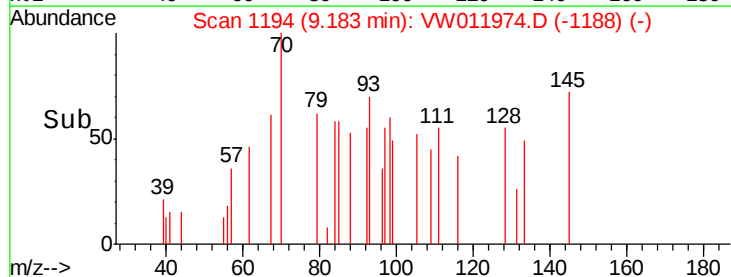
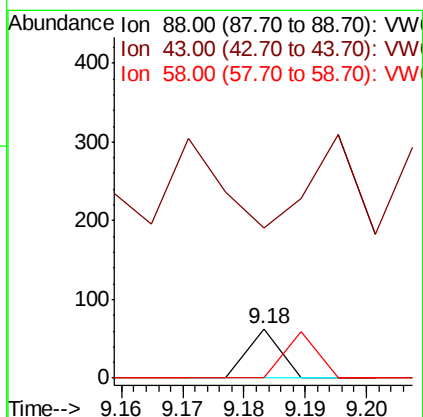
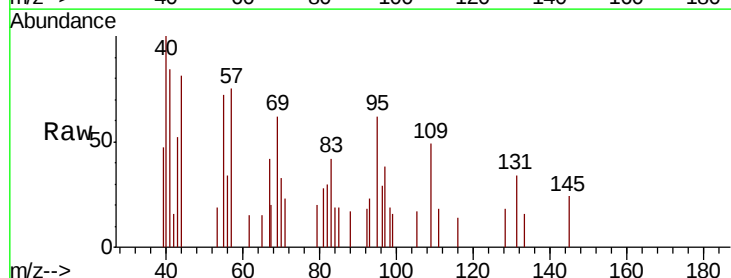
Instrument :
 MSVOA_W
 ClientSampled :
 T6-E1-(2)

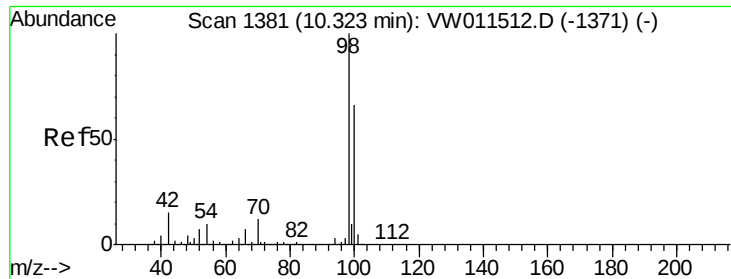
Tgt Ion:130 Resp: 10579
 Ion Ratio Lower Upper
 130 100
 95 106.4 0.0 204.8



#49
 1,4-Dioxane
 Concen: 1.282 ug/l
 RT: 9.18 min Scan# 1194
 Delta R.T. -0.26 min
 Lab File: VW011974.D
 Acq: 16 Aug 2019 19:08

Tgt Ion: 88 Resp: 23
 Ion Ratio Lower Upper
 88 100
 43 613.0 34.0 51.0#
 58 95.7 69.7 104.5





#50

Toluene-d8

Concen: 52.407 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampled :

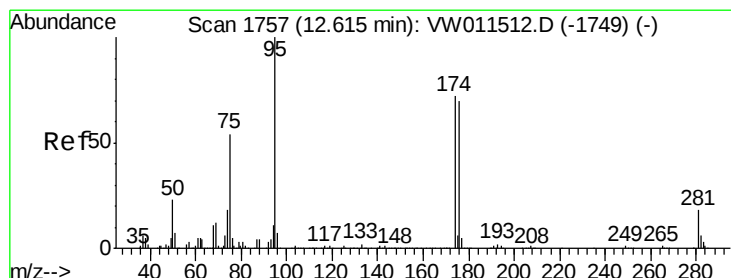
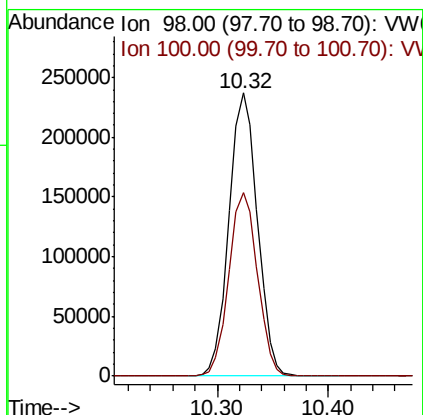
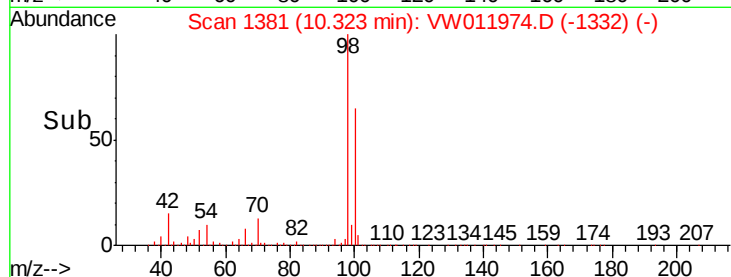
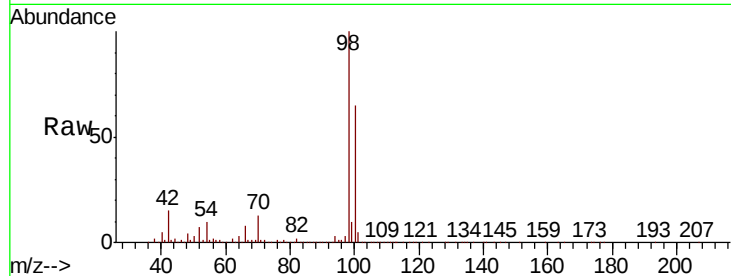
T6-E1-(2)

Tgt Ion: 98 Resp: 419487

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 46.962 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

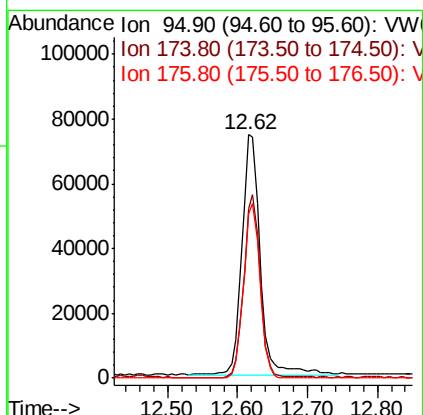
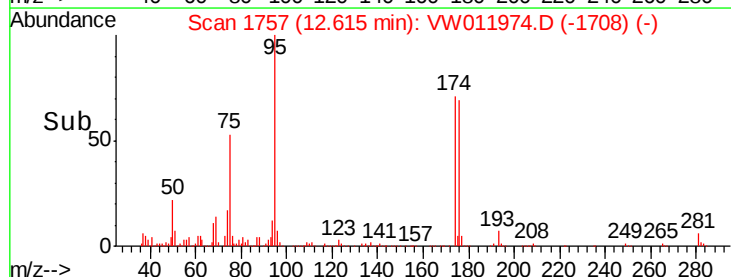
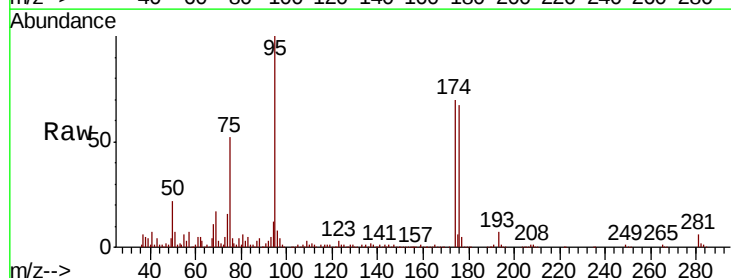
Tgt Ion: 95 Resp: 134016

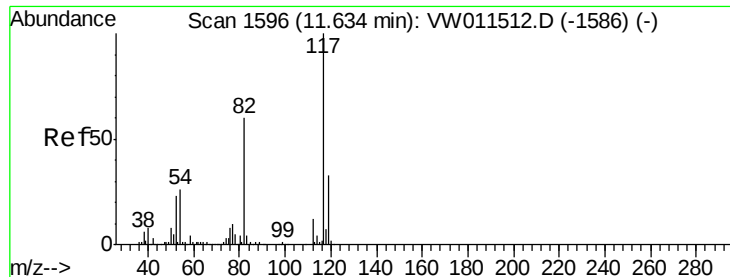
Ion Ratio Lower Upper

95 100

174 68.7 0.0 150.2

176 65.5 0.0 144.4

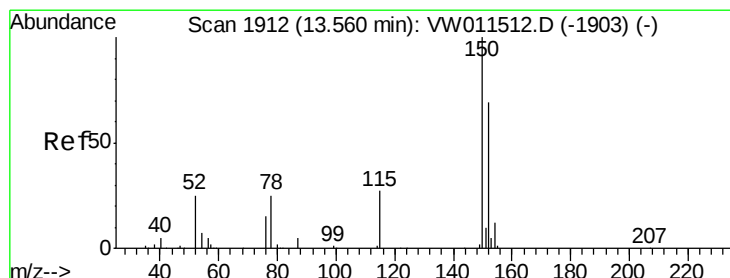
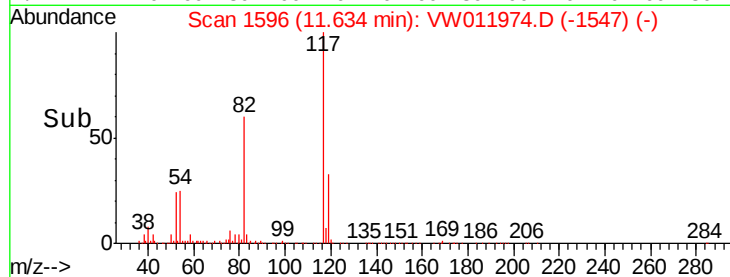
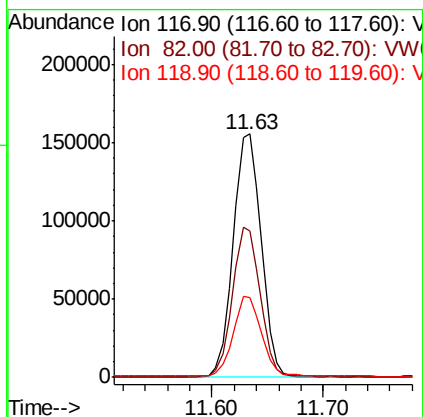
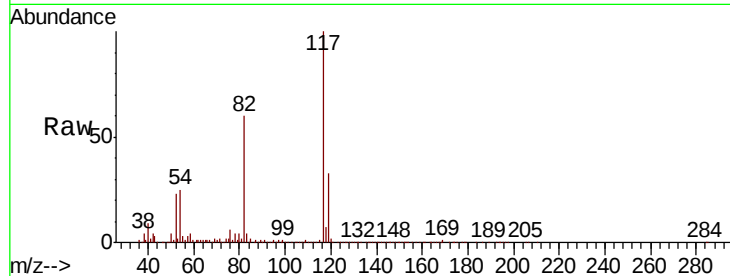




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW011974.D
Acq: 16 Aug 2019 19:08

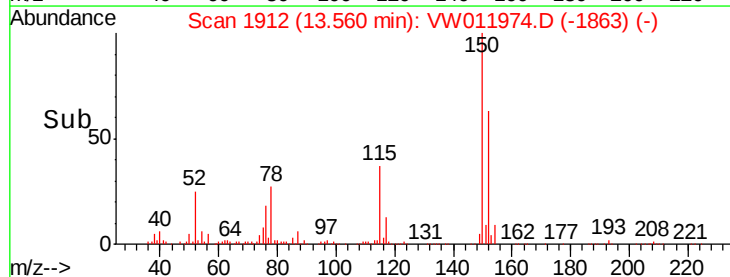
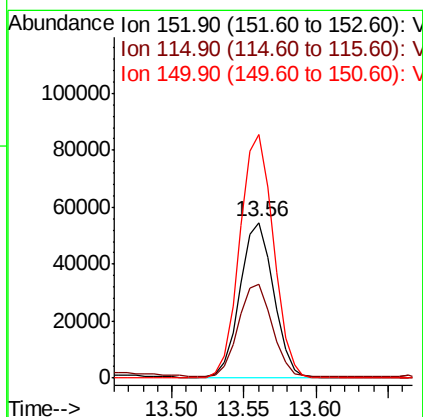
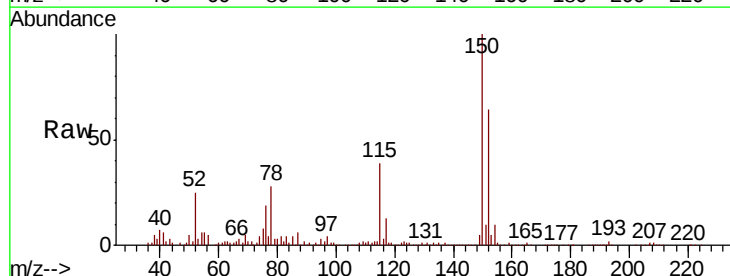
Instrument :
MSVOA_W
ClientSampleId :
T6-E1-(2)

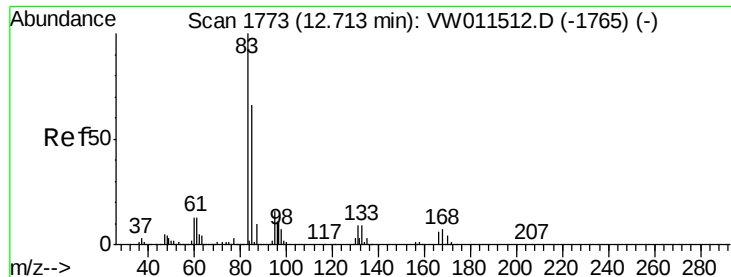
Tgt Ion	Resp	Lower	Upper
117	269538		
82	60.0	47.9	71.9
119	32.5	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011974.D
Acq: 16 Aug 2019 19:08

Tgt Ion	Resp	Lower	Upper
152	88031		
115	59.8	30.5	91.5
150	157.5	0.0	352.6





#75

1,1,2,2-Tetrachloroethane

Concen: 17.135 ug/l

RT: 12.63 min Scan# 1760

Delta R.T. -0.08 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampled :

T6-E1-(2)

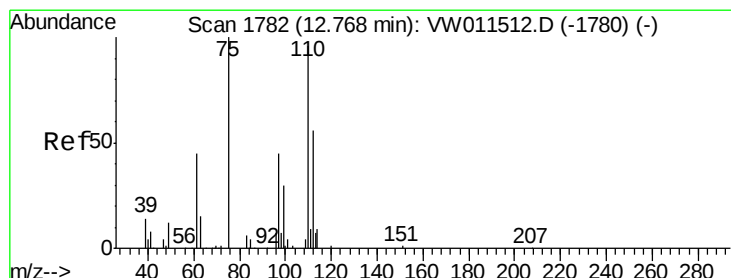
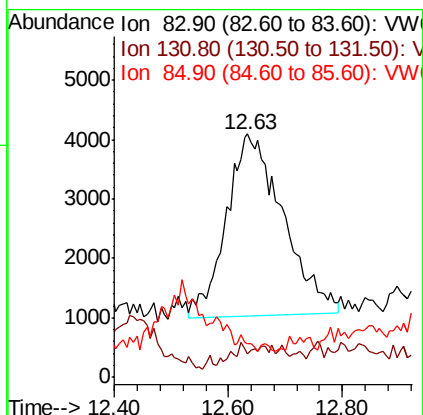
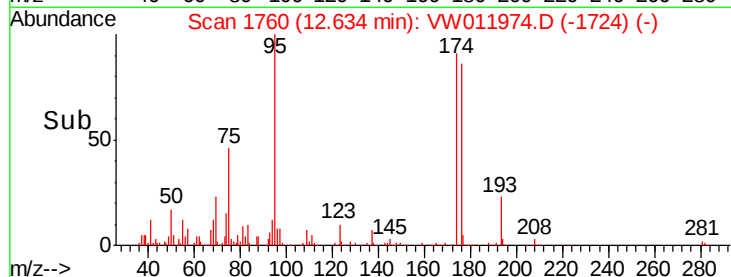
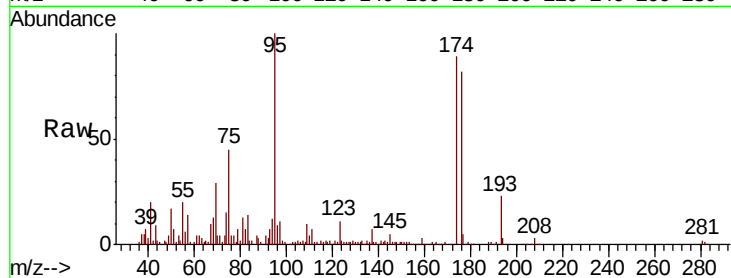
Tgt Ion: 83 Resp: 21167

Ion Ratio Lower Upper

83 100

131 3.0 4.9 14.6#

85 1.3 31.8 95.4#



#76

1,2,3-Trichloropropane

Concen: 67.790 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011974.D

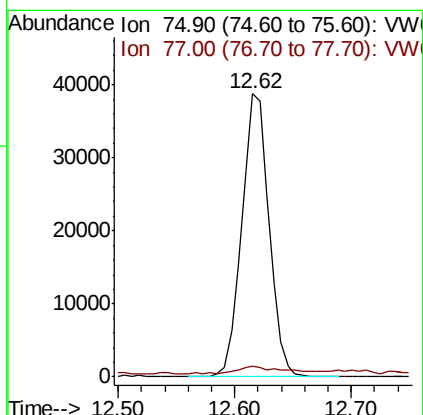
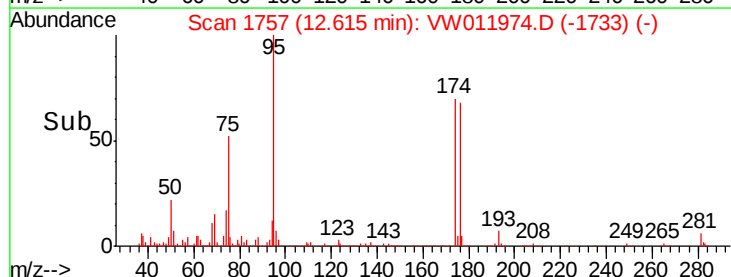
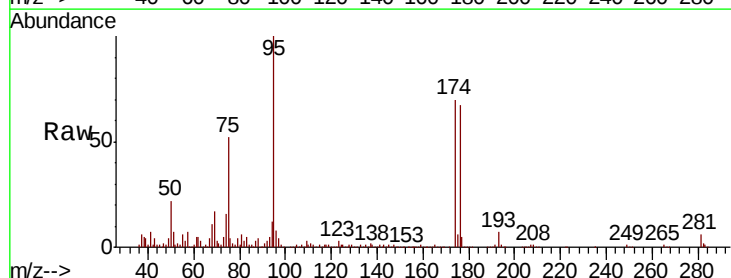
Acq: 16 Aug 2019 19:08

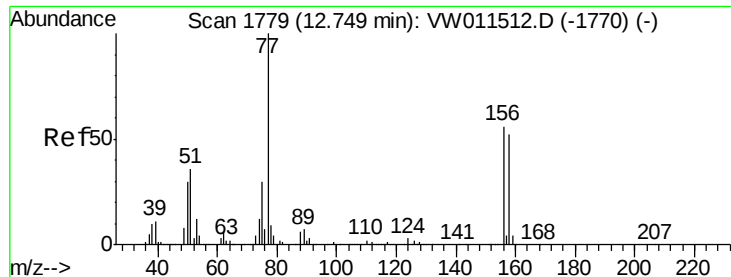
Tgt Ion: 75 Resp: 63144

Ion Ratio Lower Upper

75 100

77 4.5 0.0 0.0#





#77

Bromobenzene

Concen: 38.437 ug/l

RT: 12.88 min Scan# 1800

Delta R.T. 0.13 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampled :

T6-E1-(2)

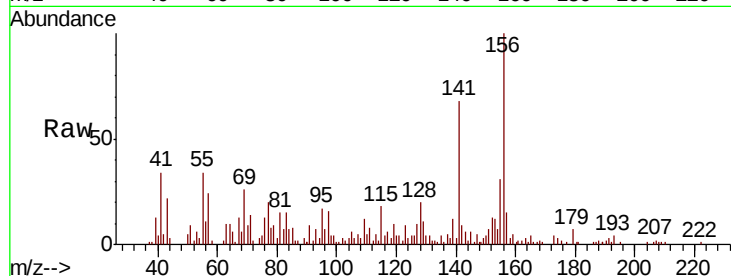
Tgt Ion:156 Resp: 55795

Ion Ratio Lower Upper

156 100

77 9.0 106.5 319.4#

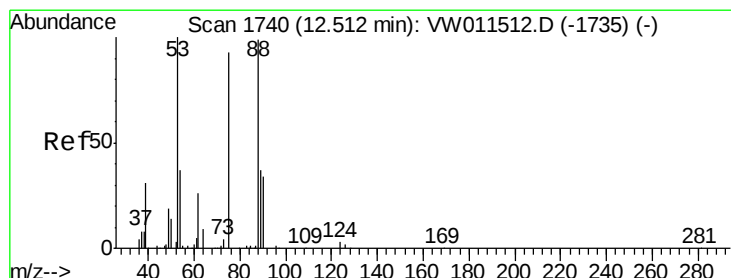
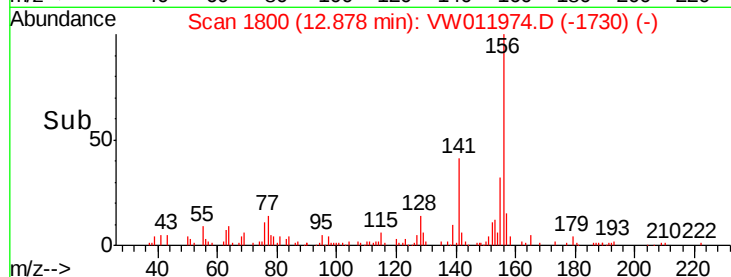
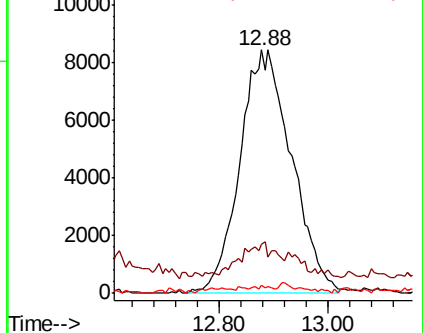
158 0.2 48.0 144.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 156.232 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

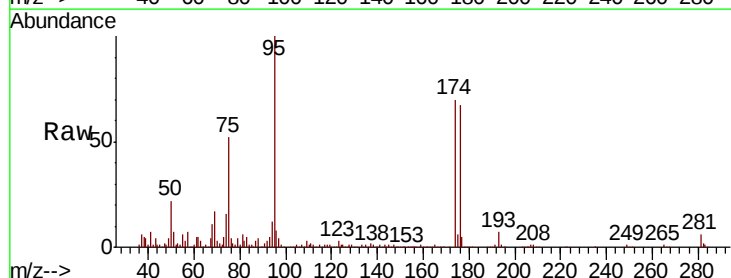
Tgt Ion: 75 Resp: 63144

Ion Ratio Lower Upper

75 100

53 2.4 88.0 132.0#

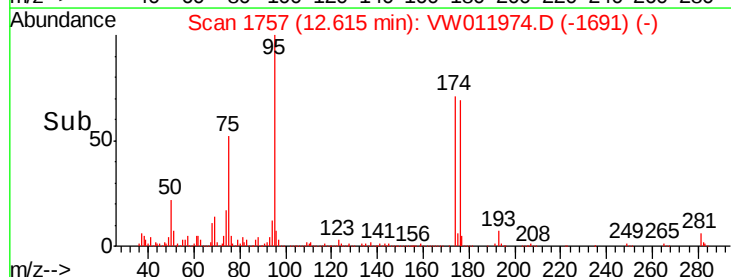
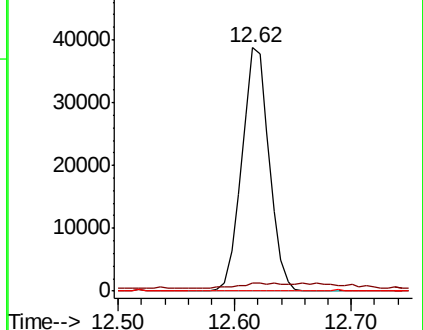
89 0.3 35.3 52.9#

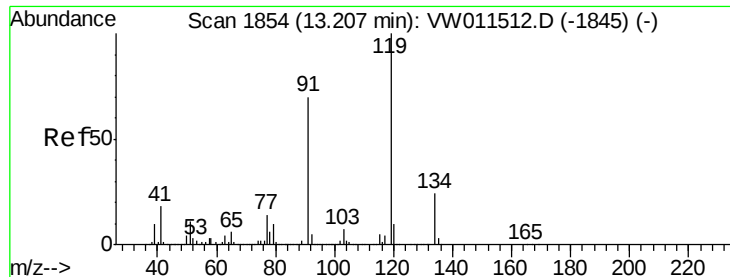


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#83

tert-Butylbenzene

Concen: 1.296 ug/l

RT: 13.18 min Scan# 1850

Delta R.T. -0.02 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampled :

T6-E1-(2)

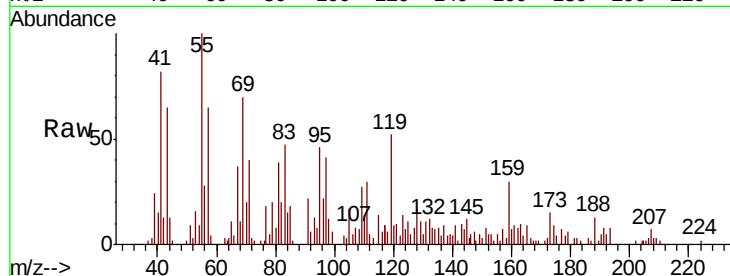
Tgt Ion:119 Resp: 5967

Ion Ratio Lower Upper

119 100

91 7.0 34.5 103.6#

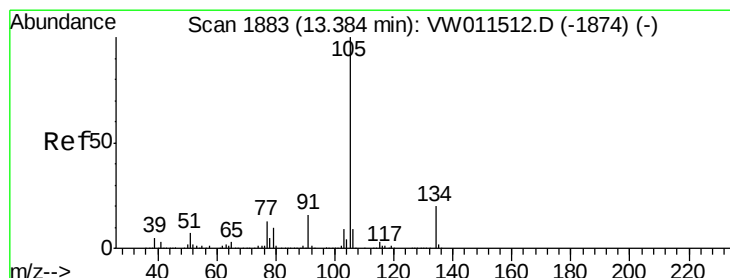
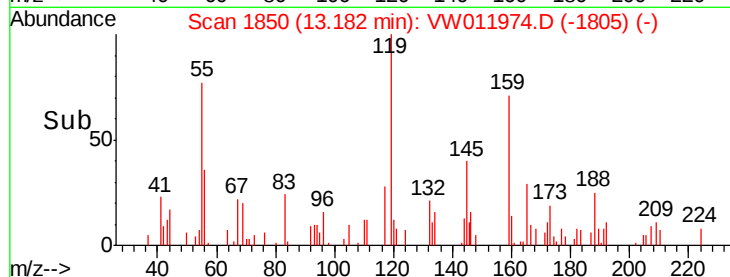
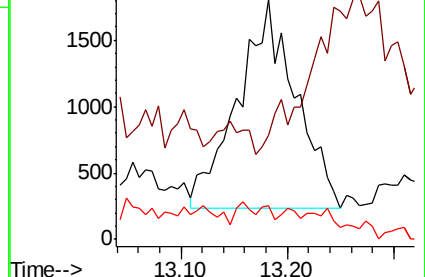
134 1.0 12.4 37.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#85

sec-Butylbenzene

Concen: 1.198 ug/l

RT: 13.44 min Scan# 1893

Delta R.T. 0.06 min

Lab File: VW011974.D

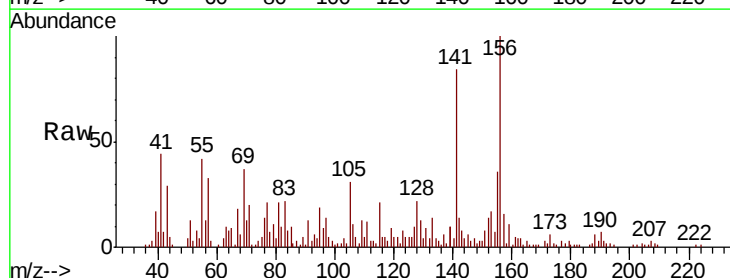
Acq: 16 Aug 2019 19:08

Tgt Ion:105 Resp: 7870

Ion Ratio Lower Upper

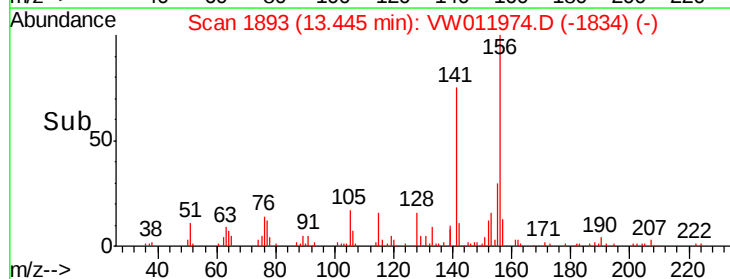
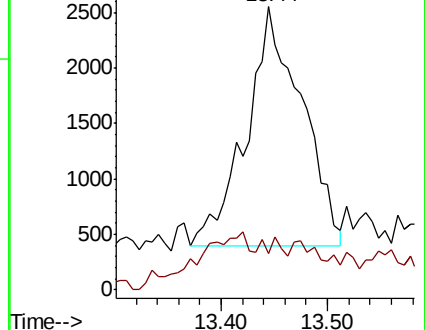
105 100

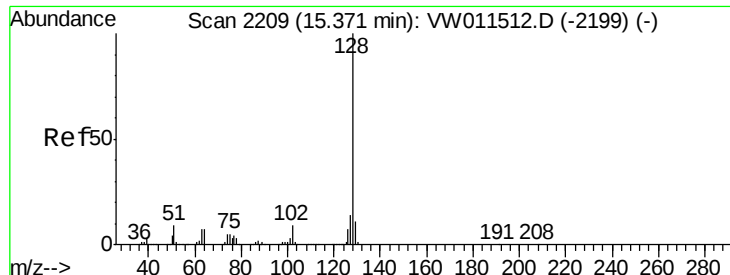
134 0.0 9.7 29.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 2.186 ug/l

RT: 15.36 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VW011974.D

Acq: 16 Aug 2019 19:08

Instrument :

MSVOA_W

ClientSampleId :

T6-E1-(2)

Tgt Ion:128 Resp: 437

Ion Ratio Lower Upper

128 100

127 27.0 10.6 16.0#

129 101.1 8.6 13.0#

