

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072419\
 Data File : VW011453.D
 Acq On : 24 Jul 2019 01:19
 Operator : SY/VA
 Sample : K3928-01
 Misc : 6.02G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

Quant Time: Jul 24 06:41:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 11 08:14:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	4265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	6627	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	3554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	5031	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	2970	55.42	ug/l	0.00
Spiked Amount			Recovery	=	110.84%	
35) Dibromofluoromethane	7.88	113	2270	57.47	ug/l	0.00
Spiked Amount			Recovery	=	114.94%	
50) Toluene-d8	10.32	98	7149	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	
62) 4-Bromofluorobenzene	12.62	95	14215	242.90	ug/l	0.00
Spiked Amount			Recovery	=	485.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	149	3.635	ug/l #	41
6) Chloroethane	2.90	64	173	5.987	ug/l #	42
11) Tert butyl alcohol	5.12	59	19	4.789	ug/l #	1
12) 1,1-Dichloroethene	3.87	96	56	1.182	ug/l #	1
13) Acrolein	3.94	56	20	6.330	ug/l #	14
14) Allyl chloride	4.67	41	208	2.407	ug/l #	81
15) Acrylonitrile	5.40	53	19	1.415	ug/l #	1
16) Acetone	4.12	43	167	12.951	ug/l #	48
18) Methyl Acetate	4.65	43	96	1.240	ug/l #	57
20) Methylene Chloride	4.91	84	104	2.044	ug/l #	30
23) Vinyl Acetate	6.24	43	132	1.148	ug/l #	77
25) 2-Butanone	7.18	43	311	15.365	ug/l #	54
26) 2,2-Dichloropropane	7.08	77	77	1.518	ug/l	95
28) Bromochloromethane	7.31	49	52	1.172	ug/l #	23
29) Tetrahydrofuran	7.53	42	53	3.993	ug/l #	41
30) Chloroform	7.66	83	117	1.295	ug/l #	18
31) Cyclohexane	7.96	56	582	5.606	ug/l #	69
32) 1,1,1-Trichloroethane	7.87	97	90	1.309	ug/l #	22
36) 1,1-Dichloropropene	7.94	75	348	4.931	ug/l #	76
37) Ethyl Acetate	7.12	43	507	11.957	ug/l	97
39) Methylcyclohexane	9.32	83	310	3.624	ug/l #	64
41) Methacrylonitrile	7.46	41	45	1.856	ug/l #	1
45) 1,2-Dichloropropane	9.40	63	139	2.632	ug/l #	58
46) Dibromomethane	9.46	93	576	23.217	ug/l #	37
47) Bromodichloromethane	9.63	83	237	3.734	ug/l #	42
48) Methyl methacrylate	9.43	41	554	14.385	ug/l #	29
49) 1,4-Dioxane	9.40	88	21	50.711	ug/l #	17
51) 4-Methyl-2-Pentanone	10.26	43	514	12.292	ug/l	95
52) Toluene	10.38	92	156	1.319	ug/l #	11
55) 1,1,2-Trichloroethane	10.76	97	319	9.064	ug/l #	22
56) Ethyl methacrylate	10.66	69	325	6.065	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.93	63	156	6.280	ug/l #	74
59) 2-Hexanone	10.94	43	352	12.138	ug/l	75
60) Dibromochloromethane	11.11	129	228	5.908	ug/l	82

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

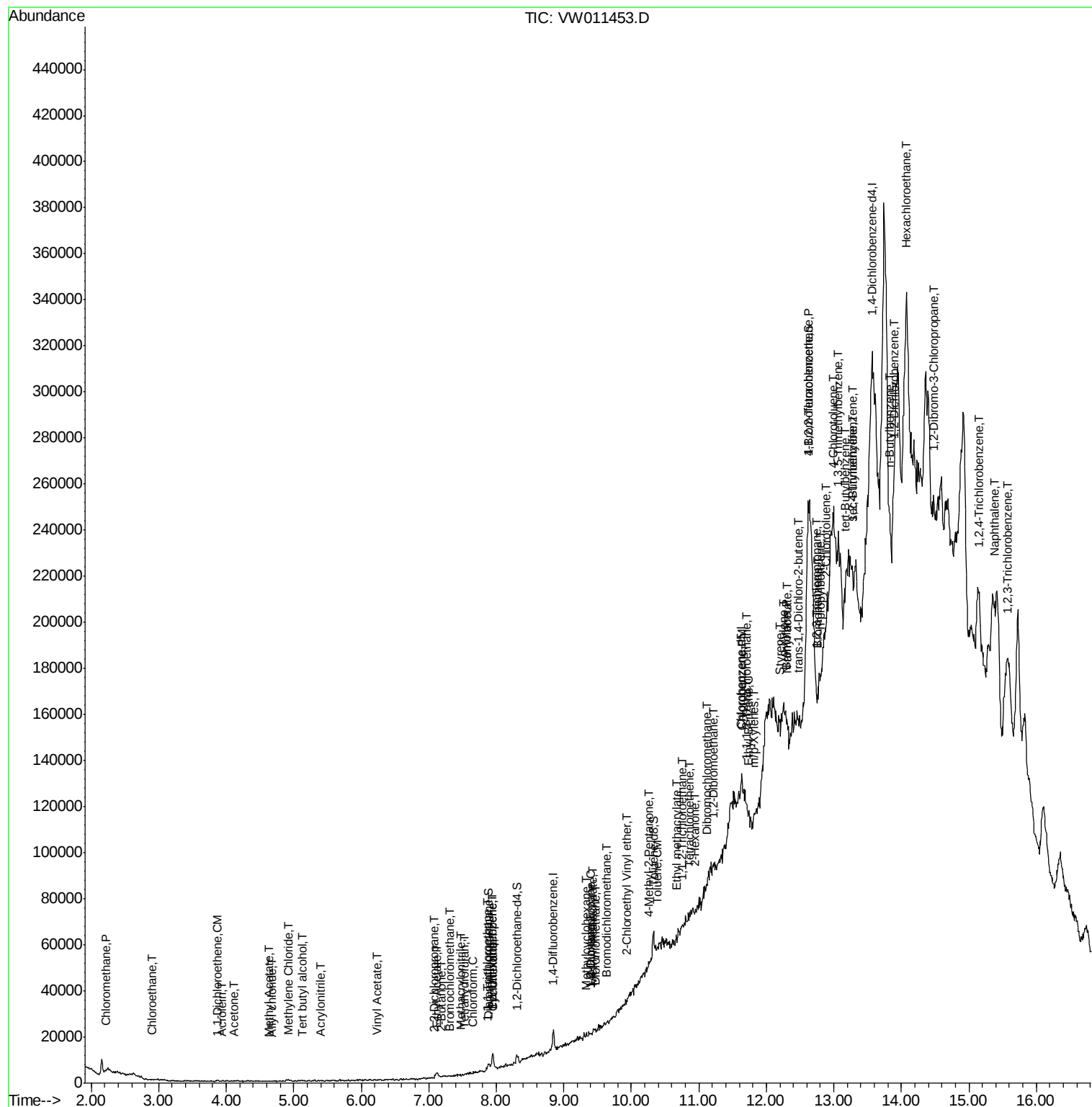
61) 1,2-Dibromoethane	11.21	107	420	12.598	ug/l #	1
64) Tetrachloroethene	10.87	164	171	7.130	ug/l #	1
65) Chlorobenzene	11.65	112	284	3.930	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.72	131	249	9.787	ug/l #	47
67) Ethyl Benzene	11.74	91	261	1.887	ug/l #	45
68) m/p-Xylenes	11.82	106	163	3.257	ug/l #	1
69) o-Xylene	12.26	106	168	3.561	ug/l	87
70) Styrene	12.20	104	195	2.395	ug/l #	55
71) Bromoform	12.30	173	1291	95.439	ug/l #	96
74) N-amyl acetate	12.31	43	825	6.299	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.62	83	19990	259.300	ug/l #	30
76) 1,2,3-Trichloropropane	12.75	75	167	2.872	ug/l #	100
77) Bromobenzene	12.76	156	124	1.469	ug/l	43
78) n-propylbenzene	12.80	91	840	1.813	ug/l	80
79) 2-Chlorotoluene	12.89	91	1349	5.060	ug/l	85
80) 1,3,5-Trimethylbenzene	13.06	105	563	1.762	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.48	75	115	4.474	ug/l #	1
82) 4-Chlorotoluene	12.98	91	515	1.855	ug/l	90
83) tert-Butylbenzene	13.17	119	368	1.381	ug/l #	23
84) 1,2,4-Trimethylbenzene	13.27	105	424	1.322	ug/l	86
85) sec-Butylbenzene	13.27	105	424	1.103	ug/l	93
89) n-Butylbenzene	13.83	91	1579	4.590	ug/l	79
90) Hexachloroethane	14.07	117	301	4.776	ug/l	96
91) 1,2-Dichlorobenzene	13.88	146	344	2.335	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.48	75	97	7.094	ug/l #	34
93) 1,2,4-Trichlorobenzene	15.16	180	633	6.238	ug/l #	35
95) Naphthalene	15.40	128	261	1.342	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.57	180	178	1.988	ug/l #	1

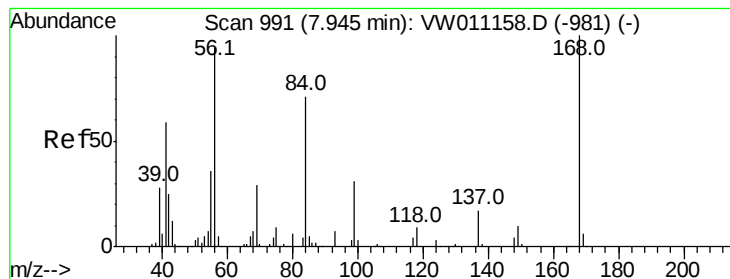
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

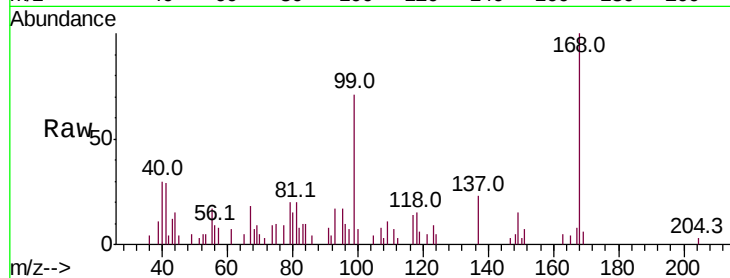
ROLL-OFF-COMP

Tot Ion:168 Resp: 4265

Ion Ratio Lower Upper

168 100

99 71.4 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

1500

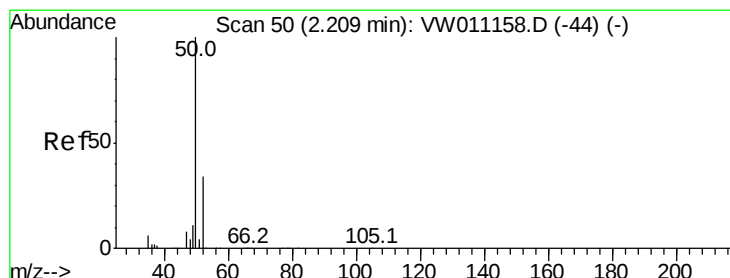
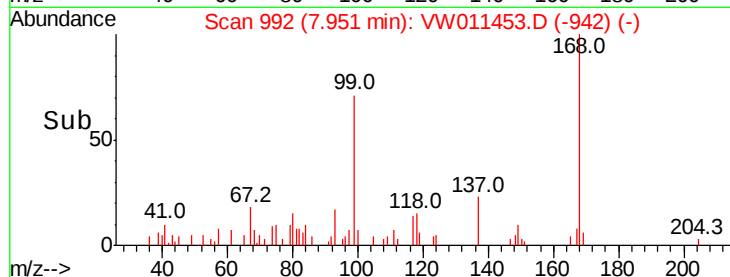
1000

500

0

7.90 7.95 8.00

Time-->



#3

Chloromethane

Concen: 3.635 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW011453.D

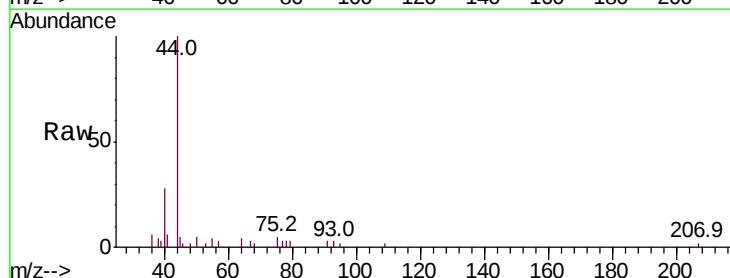
Acq: 24 Jul 2019 01:19

Tgt Ion: 50 Resp: 149

Ion Ratio Lower Upper

50 100

52 0.0 26.9 40.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

150

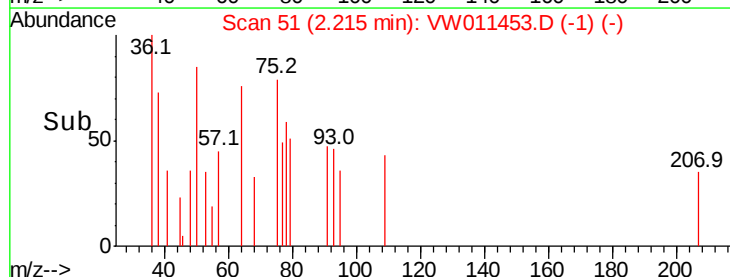
100

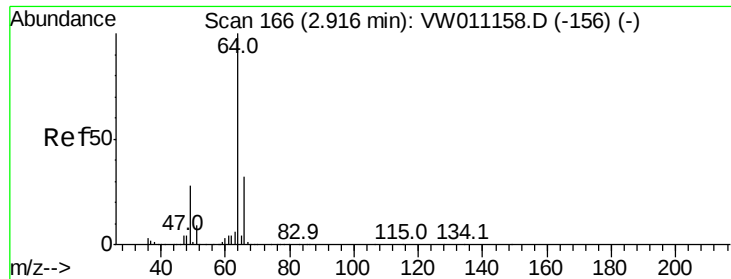
50

0

2.18 2.20 2.22 2.24

Time-->





#6

Chloroethane

Concen: 5.987 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

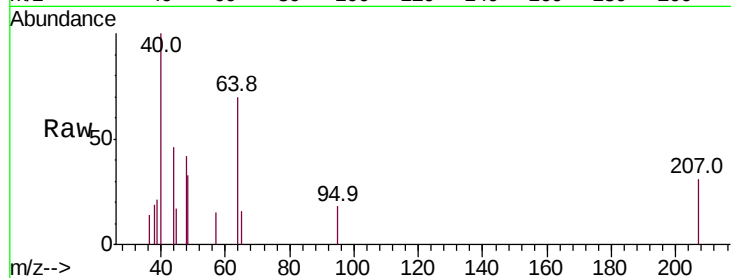
ROLL-OFF-COMP

Tot Ion: 64 Resp: 173

Ion Ratio Lower Upper

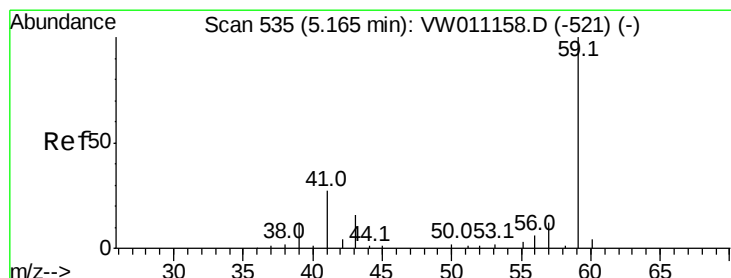
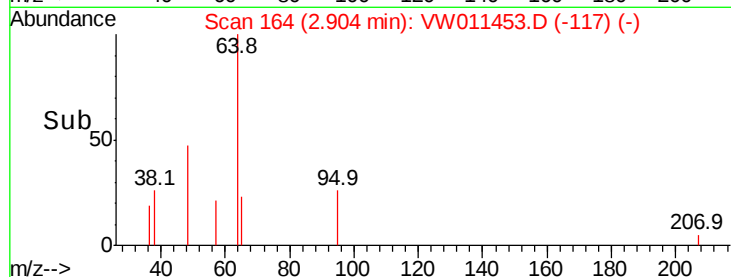
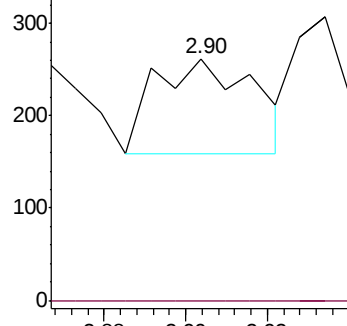
64 100

66 0.0 25.8 38.8#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



#11

Tert butyl alcohol

Concen: 4.789 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011453.D

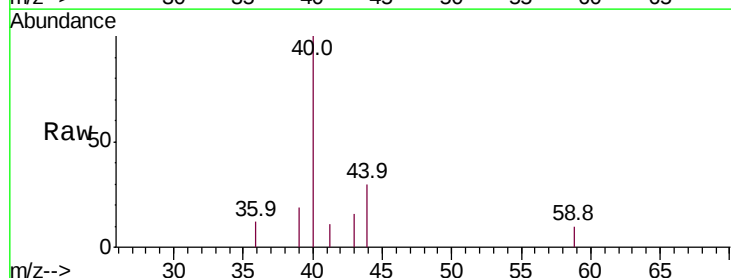
Acq: 24 Jul 2019 01:19

Tgt Ion: 59 Resp: 19

Ion Ratio Lower Upper

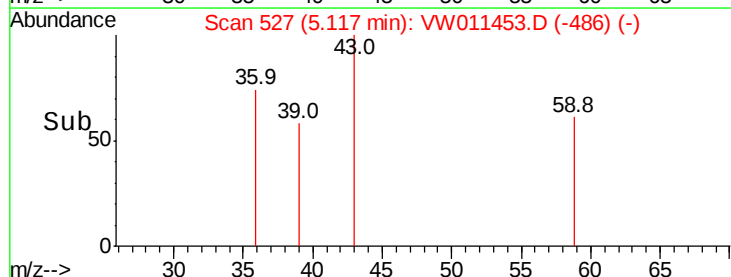
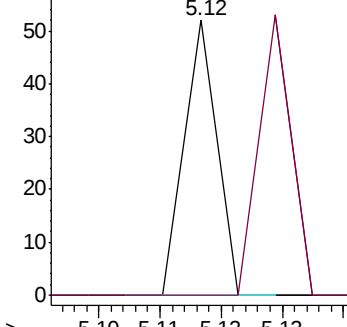
59 100

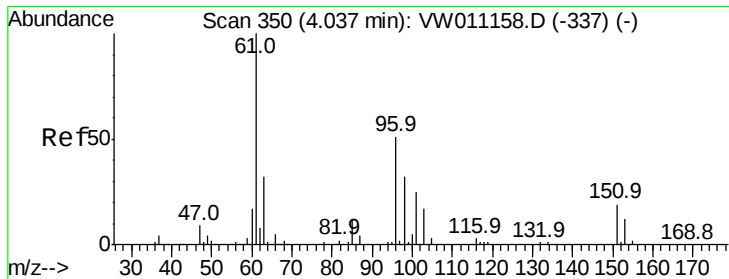
57 100.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#12

1,1-Dichloroethene

Concen: 1.182 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.16 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

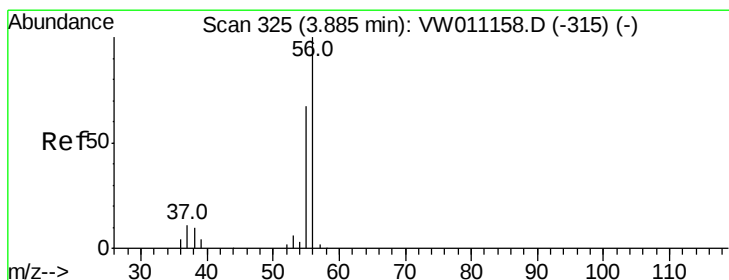
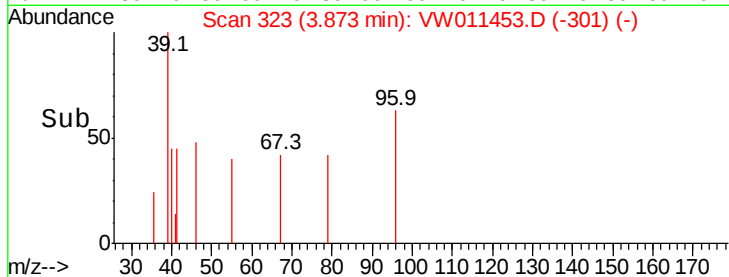
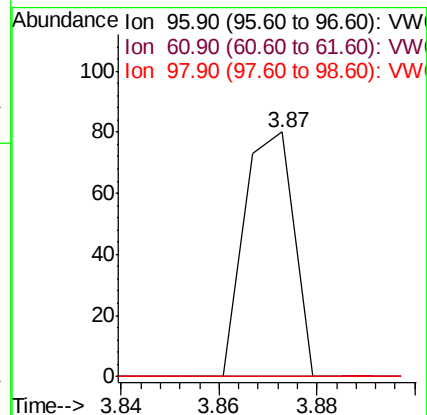
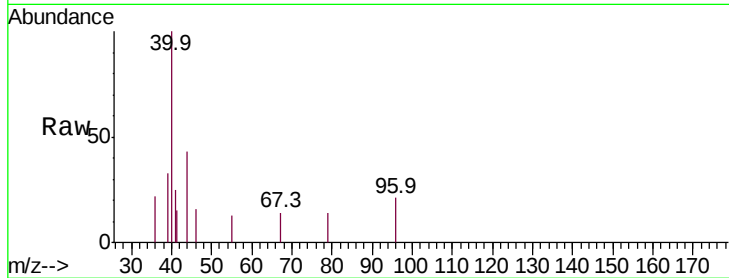
Tot Ion: 96 Resp: 56

Ion Ratio Lower Upper

96 100

61 0.0 157.7 236.5#

98 0.0 50.9 76.3#



#13

Acrolein

Concen: 6.330 ug/l

RT: 3.94 min Scan# 334

Delta R.T. 0.05 min

Lab File: VW011453.D

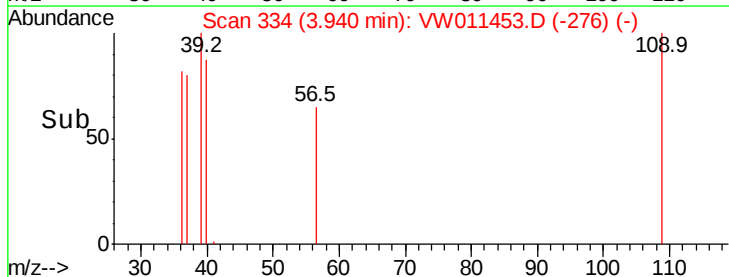
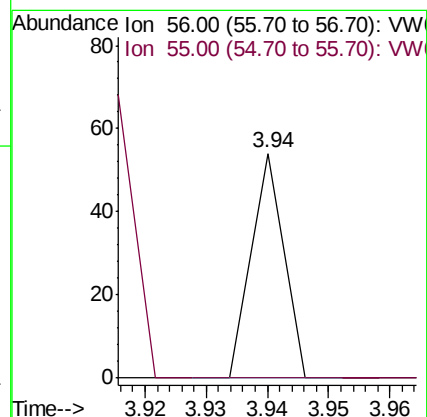
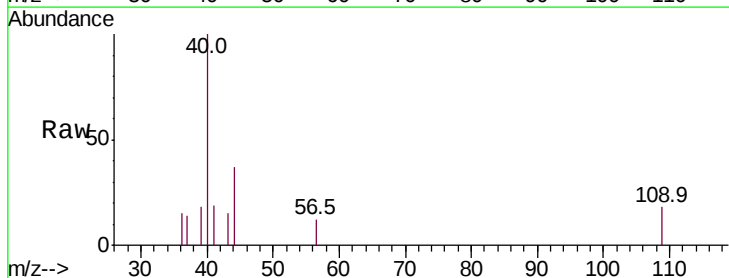
Acq: 24 Jul 2019 01:19

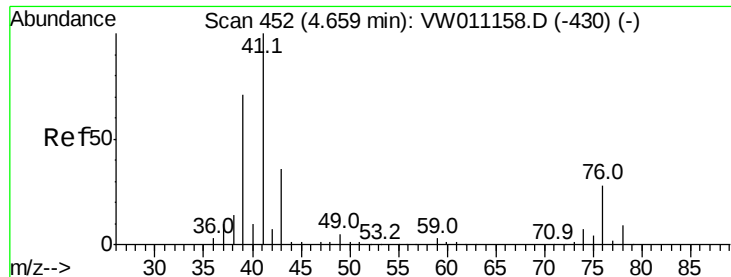
Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#

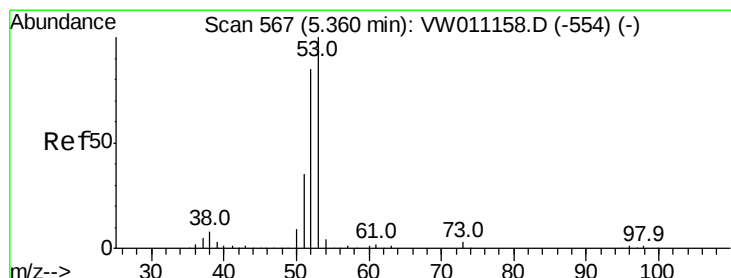
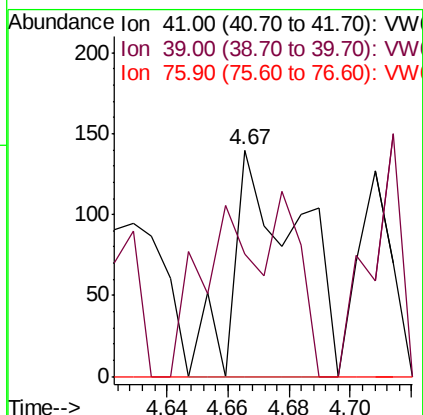
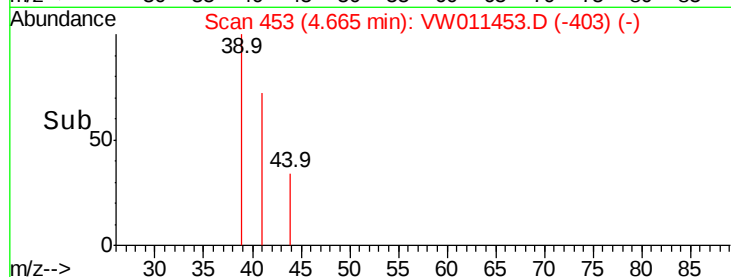
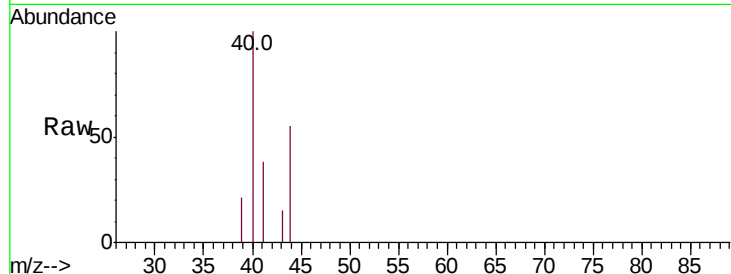




#14
Allvl chloride
Concen: 2.407 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

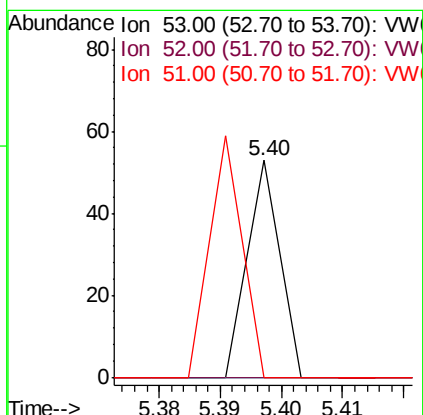
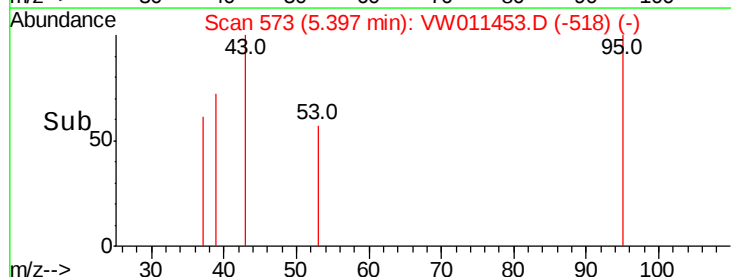
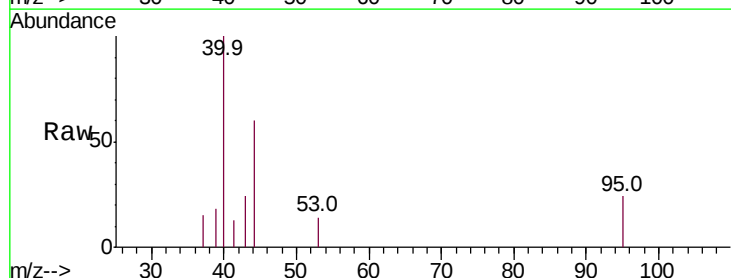
Instrument :
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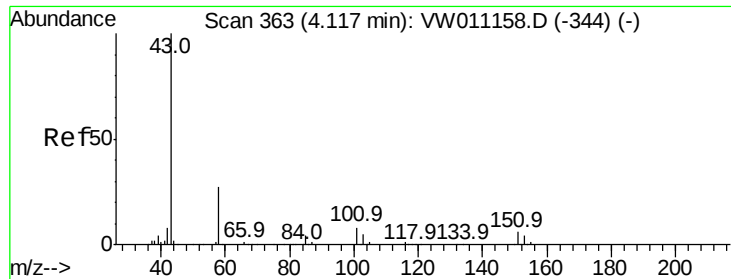
Tot Ion: 41 Resp: 208
Ion Ratio Lower Upper
41 100
39 65.4 55.1 82.7
76 0.0 22.5 33.7#



#15
Acrylonitrile
Concen: 1.415 ug/l
RT: 5.40 min Scan# 573
Delta R.T. 0.04 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

Tgt Ion: 53 Resp: 19
Ion Ratio Lower Upper
53 100
52 0.0 66.2 99.4#
51 115.8 29.1 43.7#





#16

Acetone

Concen: 12.951 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

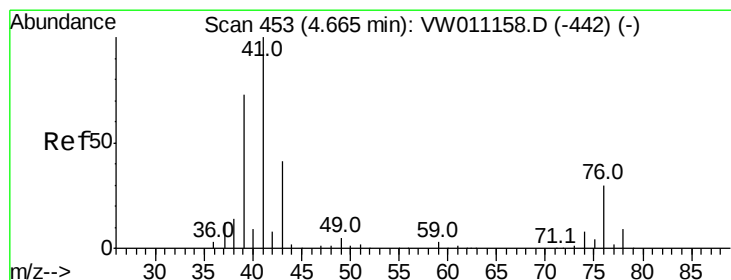
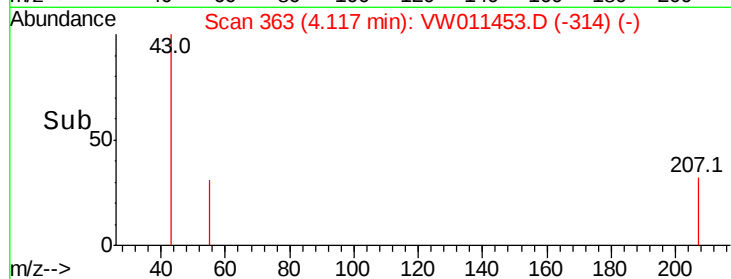
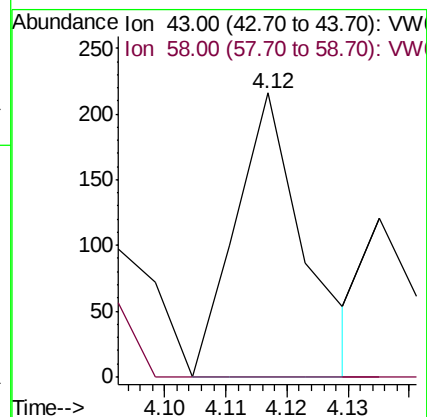
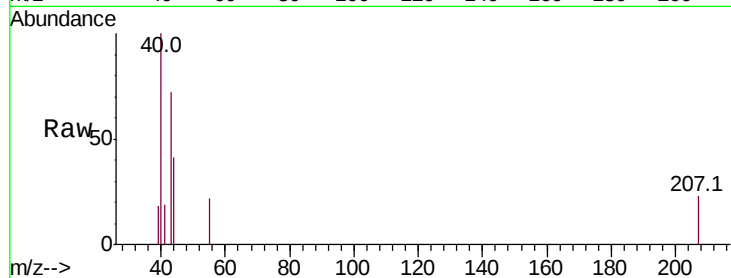
ROLL-OFF-COMP

Tot Ion: 43 Resp: 167

Ion Ratio Lower Upper

43 100

58 0.0 21.8 32.6#



#18

Methyl Acetate

Concen: 1.240 ug/l

RT: 4.65 min Scan# 450

Delta R.T. -0.02 min

Lab File: VW011453.D

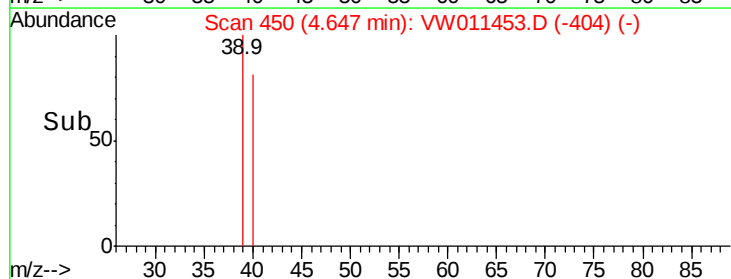
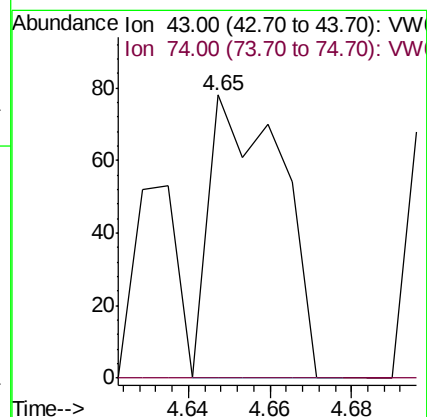
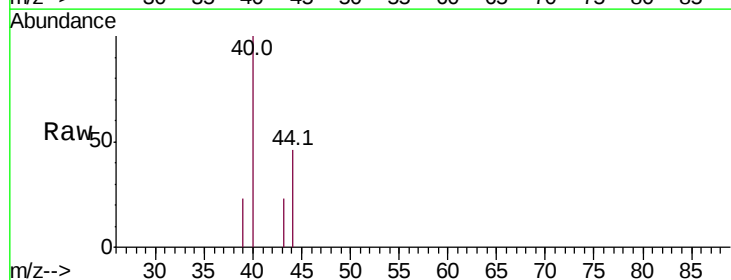
Acq: 24 Jul 2019 01:19

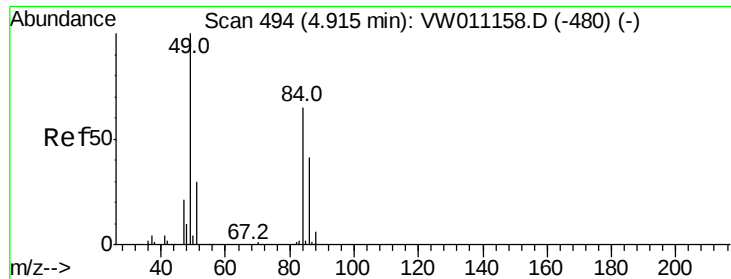
Tgt Ion: 43 Resp: 96

Ion Ratio Lower Upper

43 100

74 0.0 15.7 23.5#





#20

Methylene Chloride

Concen: 2.044 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

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ClientSampleId :

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Tot Ion: 84 Resp: 104

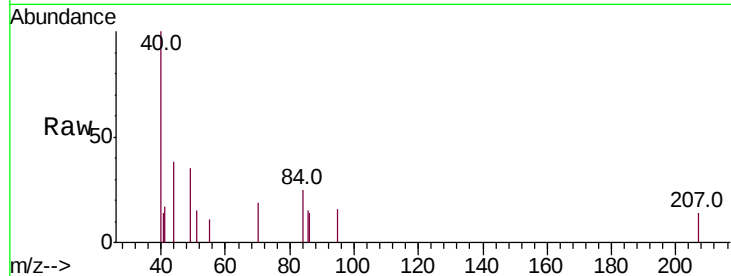
Ion Ratio Lower Upper

84 100

49 42.1 123.8 185.6#

51 58.8 37.4 56.2#

86 116.7 51.1 76.7#



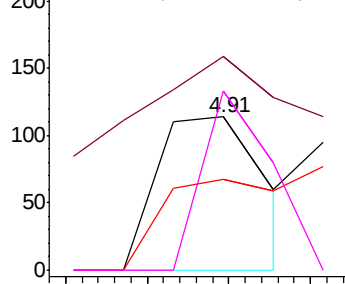
Abundance

Ion 83.90 (83.60 to 84.60): VW

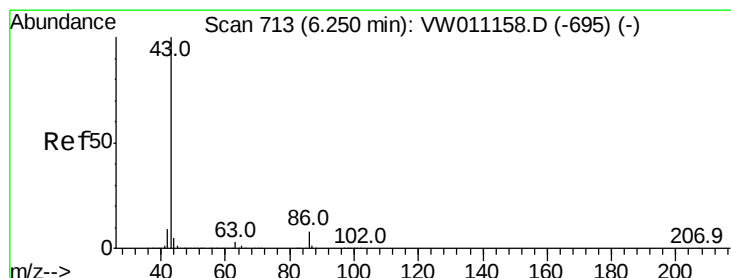
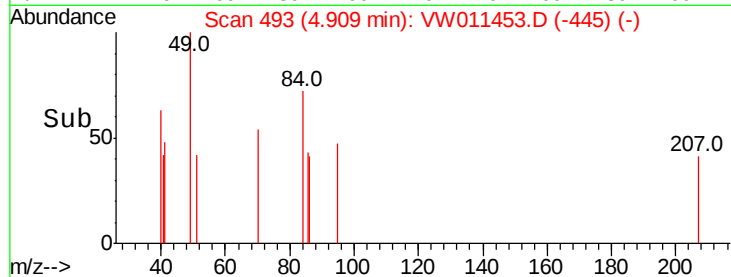
Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



Time--> 4.89 4.90 4.91 4.92



#23

Vinyl Acetate

Concen: 1.148 ug/l

RT: 6.24 min Scan# 712

Delta R.T. -0.01 min

Lab File: VW011453.D

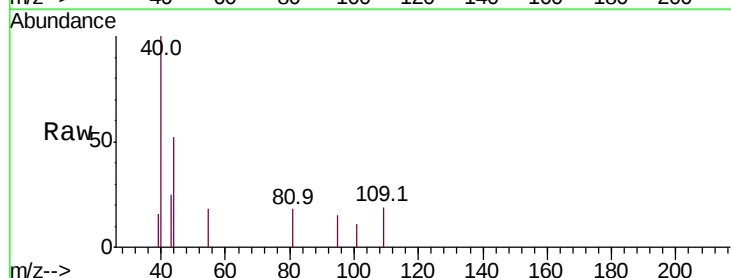
Acq: 24 Jul 2019 01:19

Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

43 100

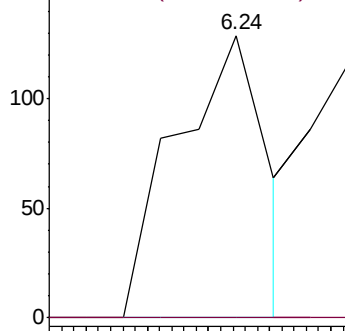
86 0.0 6.5 9.7#



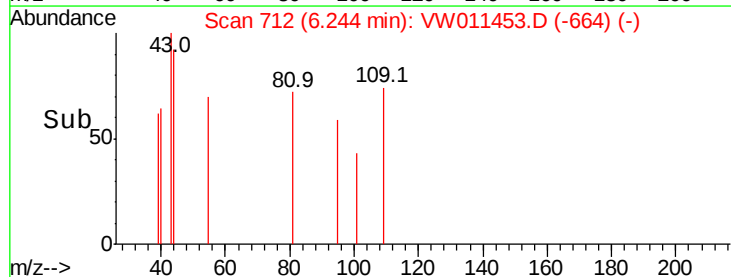
Abundance

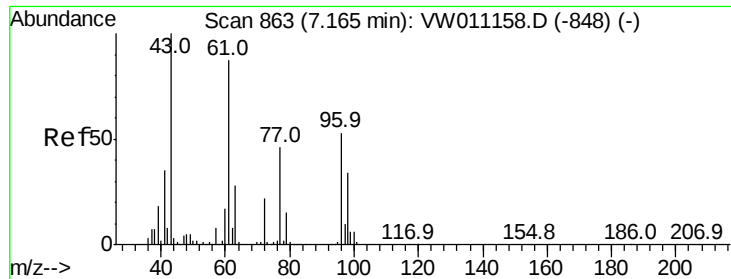
Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



Time--> 6.22 6.23 6.24 6.25





#25

2-Butanone

Concen: 15.365 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

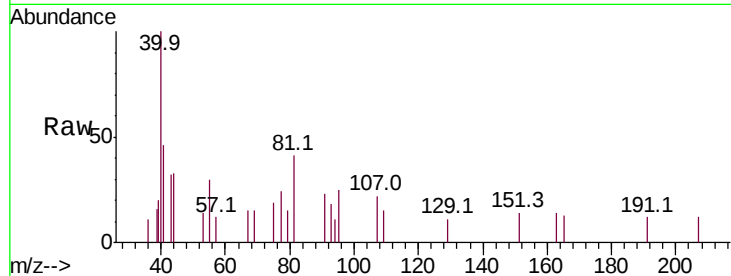
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

Tot Ion: 43 Resp: 311

Ion Ratio Lower Upper

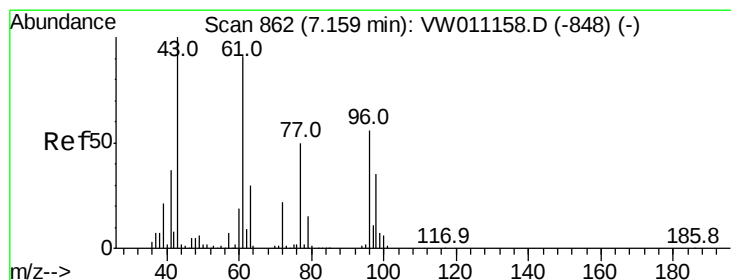
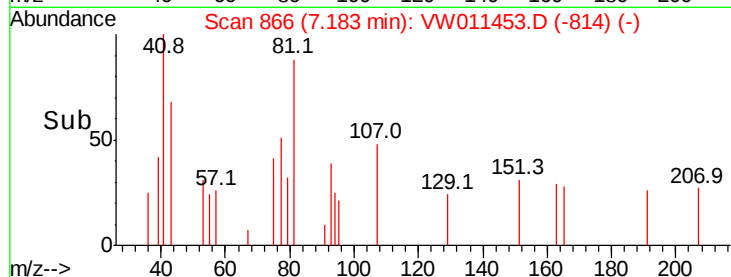
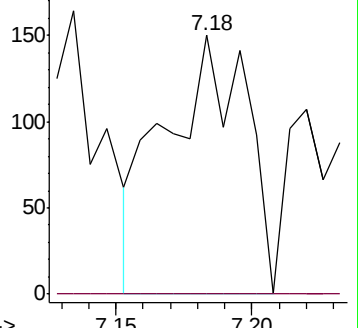
43 100

72 0.0 17.6 26.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.518 ug/l

RT: 7.08 min Scan# 849

Delta R.T. -0.08 min

Lab File: VW011453.D

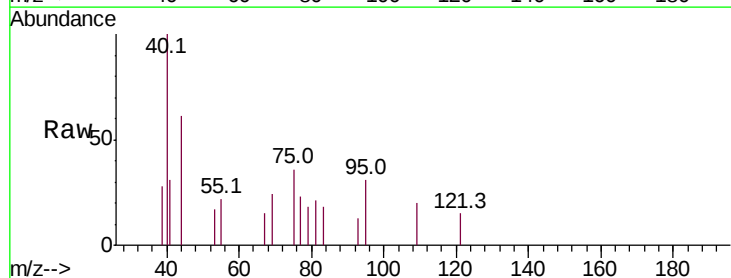
Acq: 24 Jul 2019 01:19

Tgt Ion: 77 Resp: 77

Ion Ratio Lower Upper

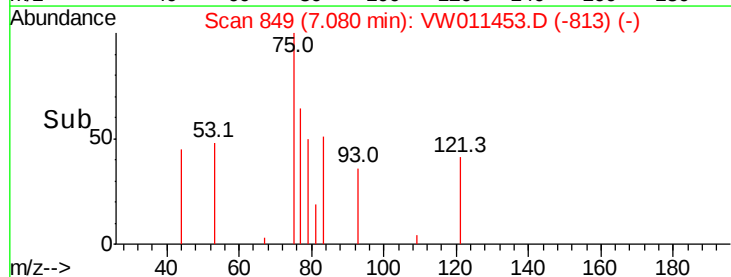
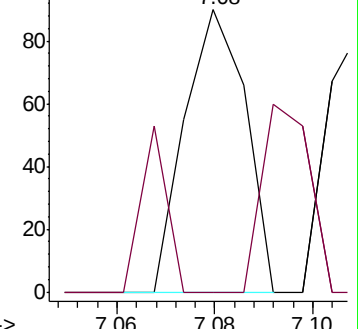
77 100

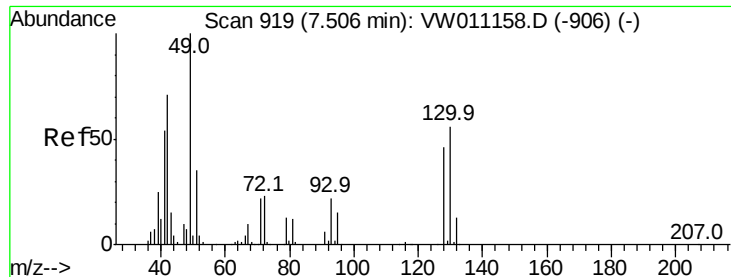
97 24.7 11.2 33.5



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#28

Bromochloromethane

Concen: 1.172 ug/l

RT: 7.31 min Scan# 887

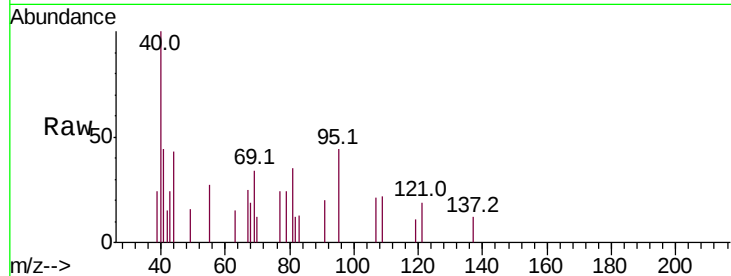
Delta R.T. -0.20 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

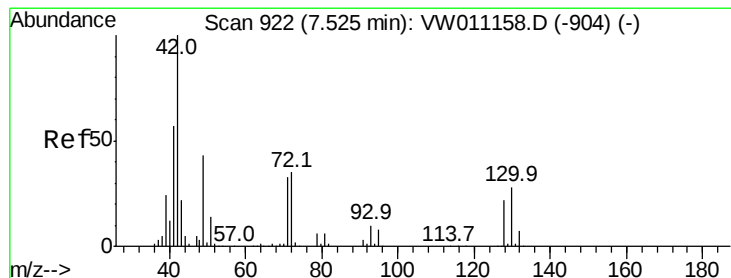
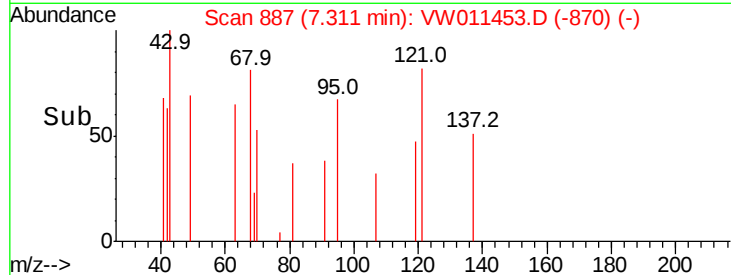
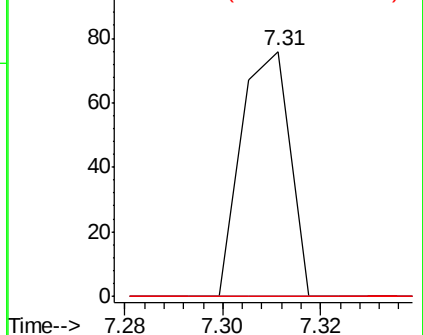
Tot Ion:	49	Resp:	52
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	1.4
130	0.0	45.8	68.8#



Abundance Ion 48.90 (48.60 to 49.60): VW

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 3.993 ug/l

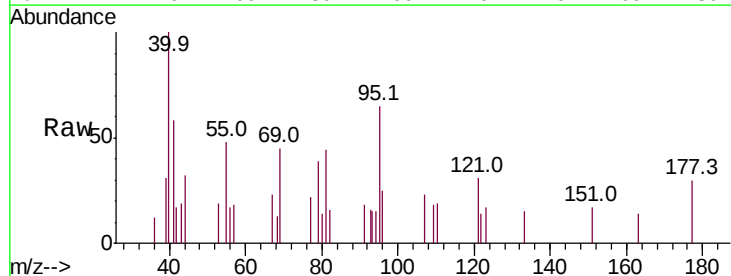
RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

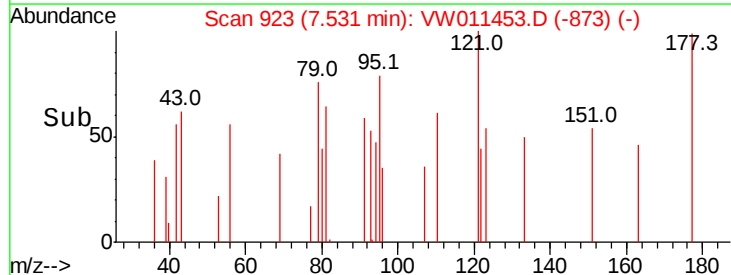
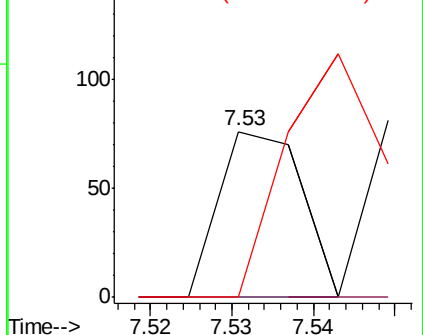
Tgt Ion:	42	Resp:	53
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.4	41.2#
71	0.0	25.9	38.9#

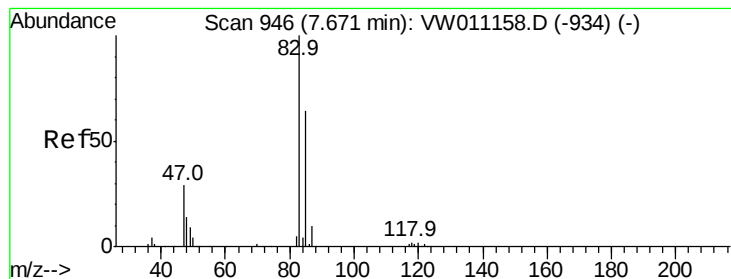


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#30

Chloroform

Concen: 1.295 ug/l

RT: 7.66 min Scan# 945

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampled :

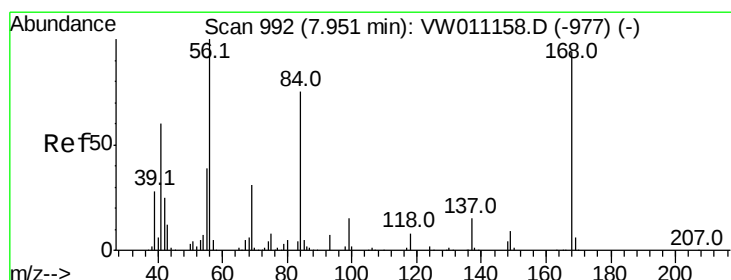
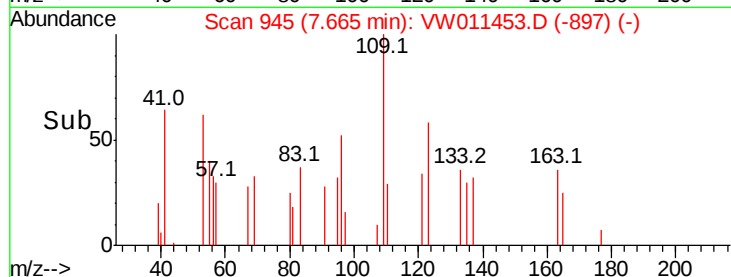
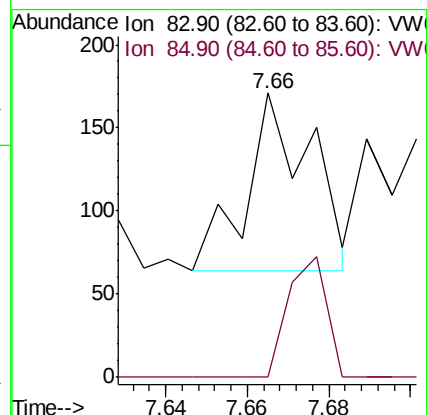
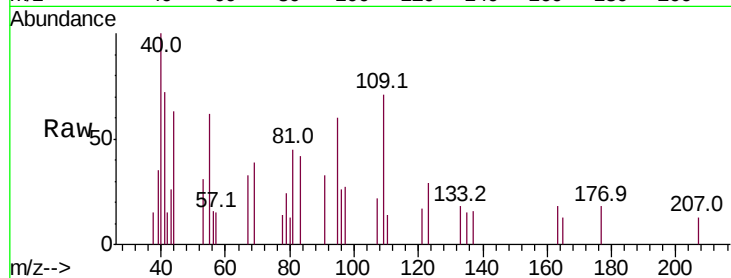
ROLL-OFF-COMP

Tot Ion: 83 Resp: 117

Ion Ratio Lower Upper

83 100

85 0.0 51.4 77.2#



#31

Cyclohexane

Concen: 5.606 ug/l

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

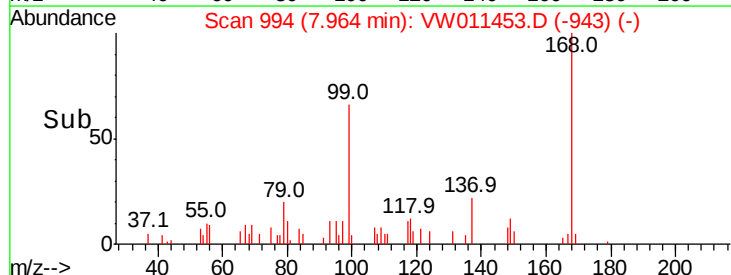
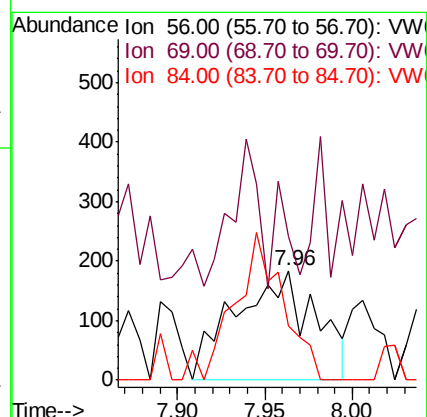
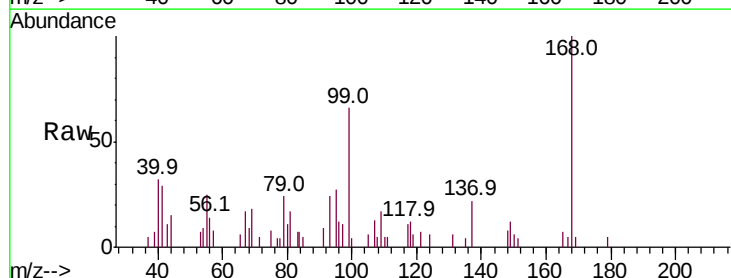
Tgt Ion: 56 Resp: 582

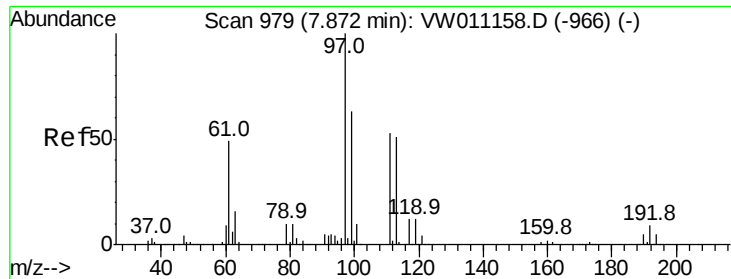
Ion Ratio Lower Upper

56 100

69 12.0 24.6 36.8#

84 50.0 60.1 90.1#





#32

1,1,1-Trichloroethane

Concen: 1.309 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

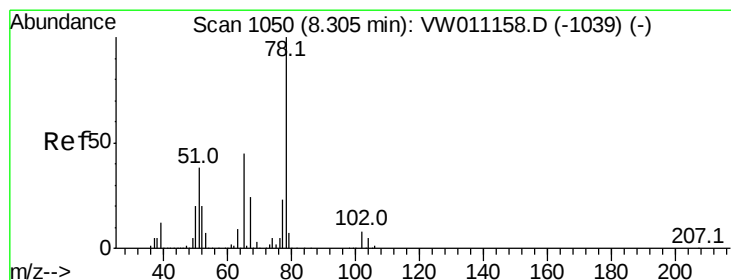
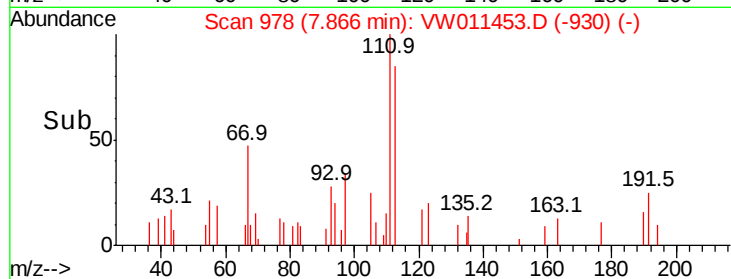
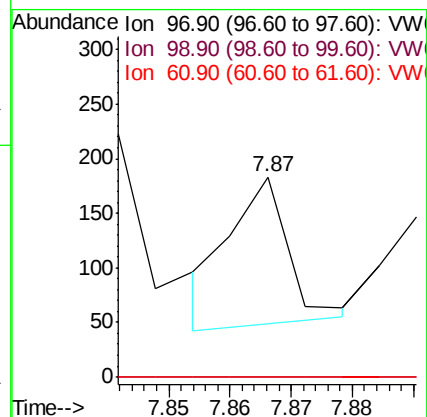
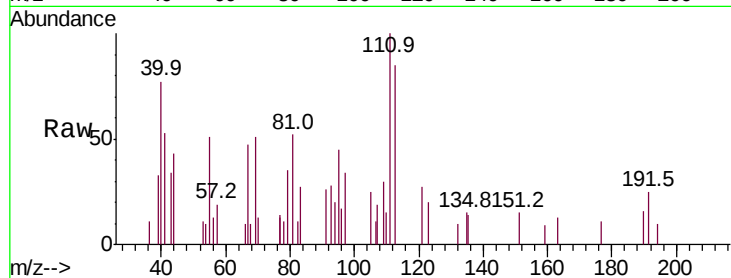
Tot Ion: 97 Resp: 90

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

61 0.0 40.4 60.6#



#33

1,2-Dichloroethane-d4

Concen: 55.419 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011453.D

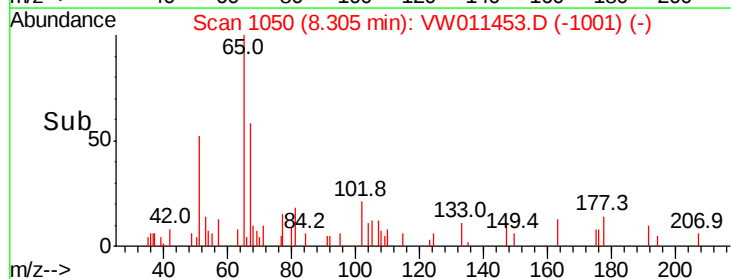
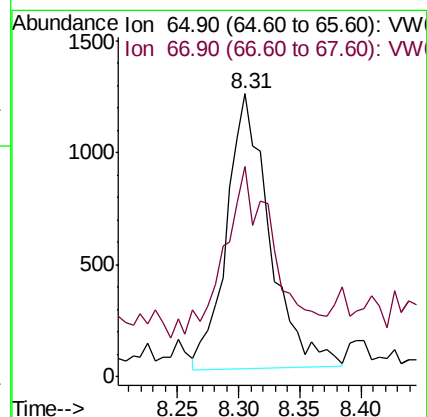
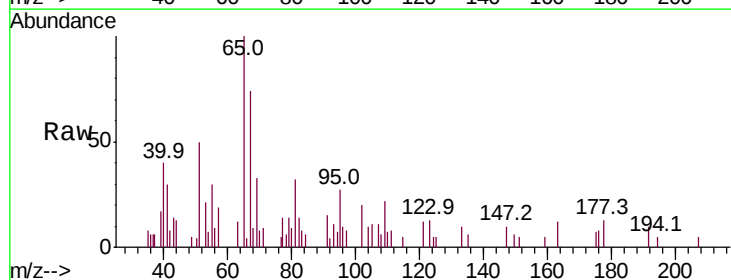
Acq: 24 Jul 2019 01:19

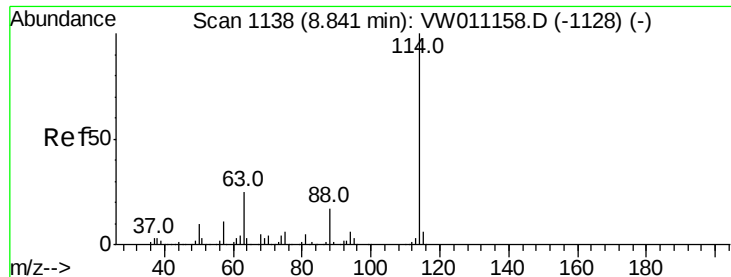
Tgt Ion: 65 Resp: 2970

Ion Ratio Lower Upper

65 100

67 73.4 0.0 104.4

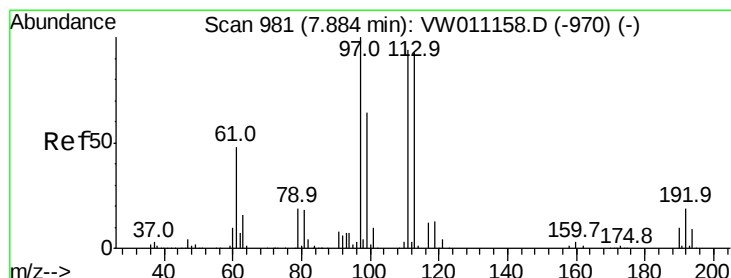
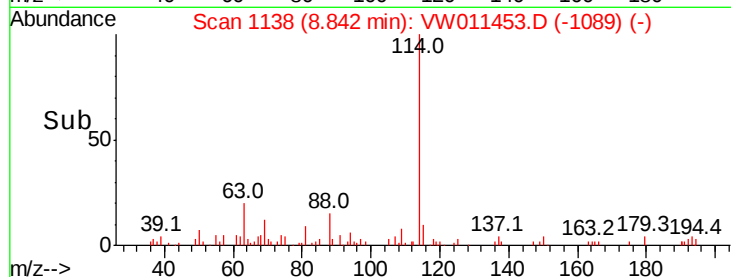
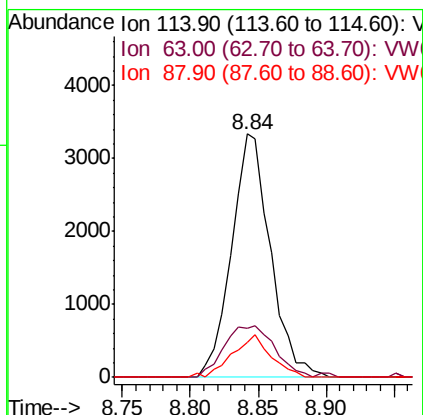
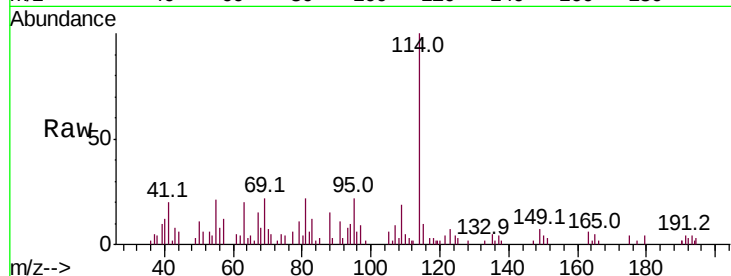




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

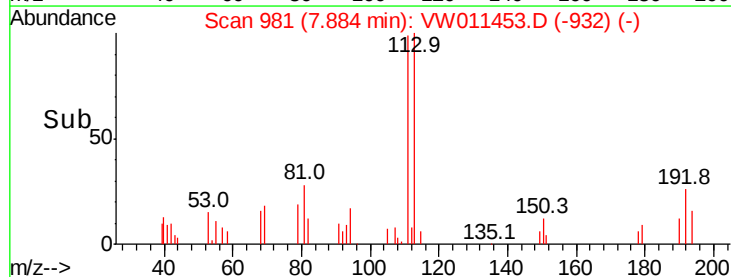
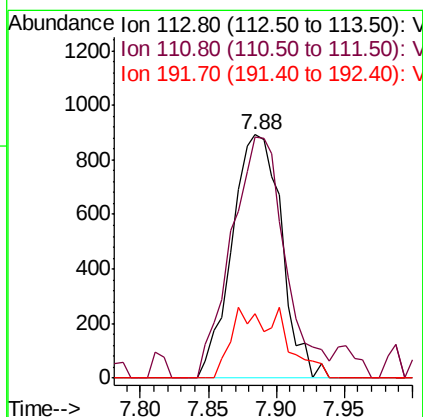
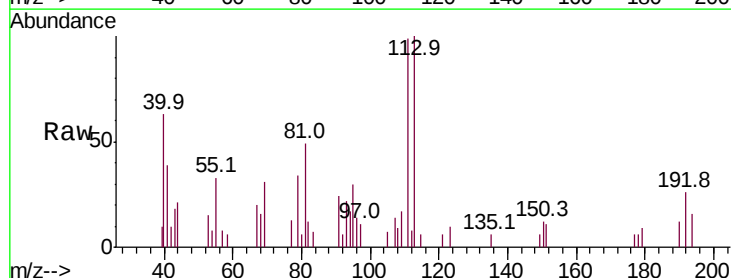
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

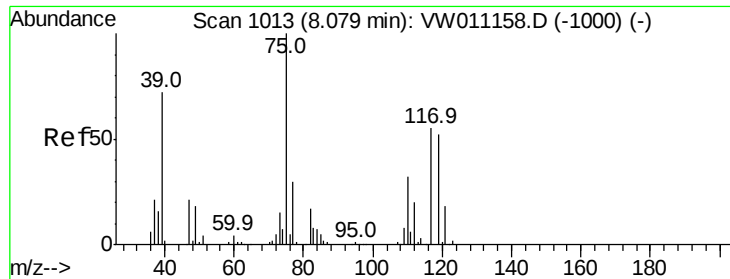
Tot Ion:114 Resp: 6627
Ion Ratio Lower Upper
114 100
63 20.3 0.0 50.8
88 14.6 0.0 34.2



#35
Dibromofluoromethane
Concen: 57.469 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

Tgt Ion:113 Resp: 2270
Ion Ratio Lower Upper
113 100
111 107.5 82.4 123.6
192 30.3 15.8 23.8#

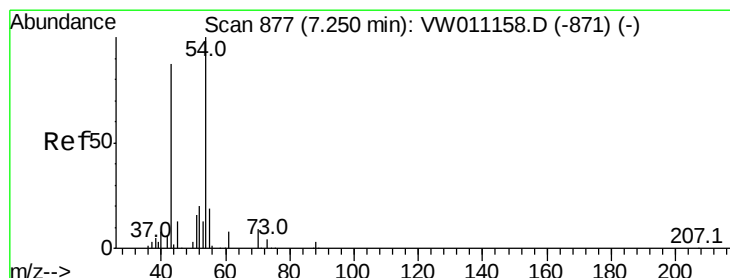
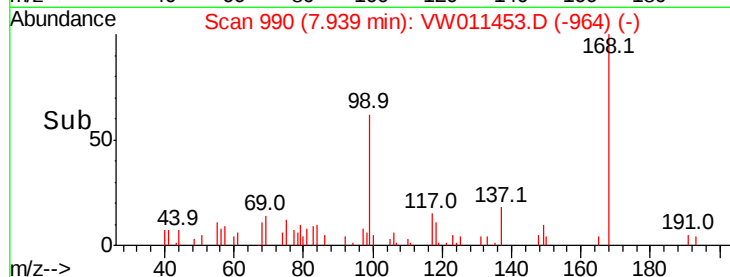
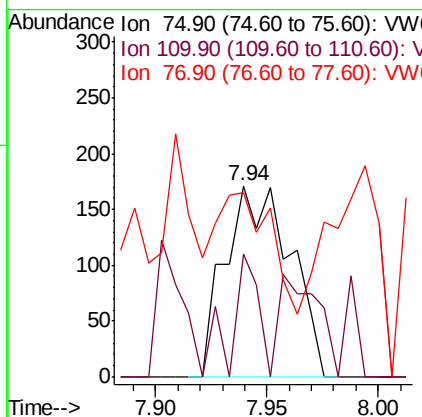
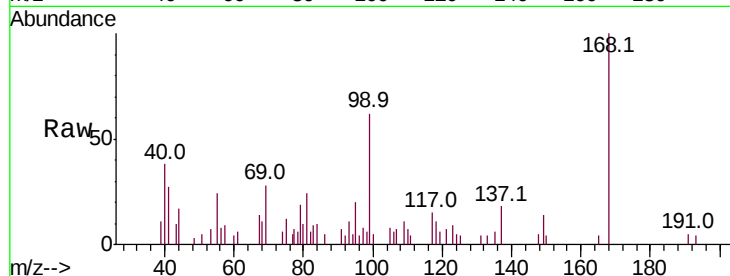




#36
 1,1-Dichloropropene
 Concen: 4.931 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

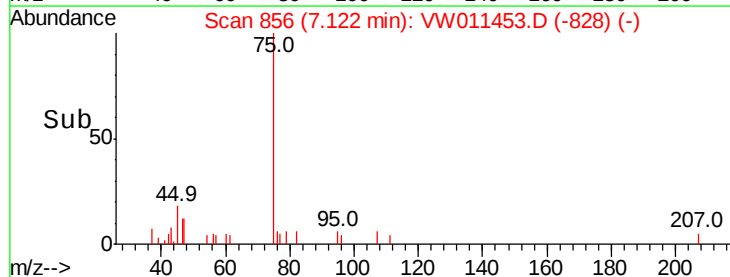
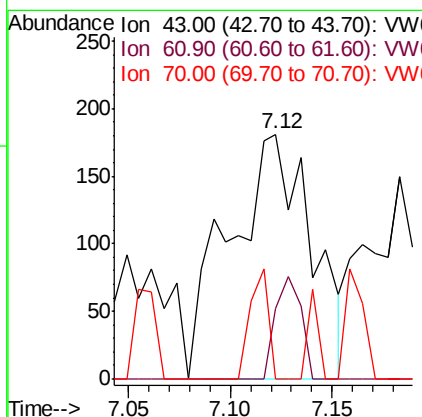
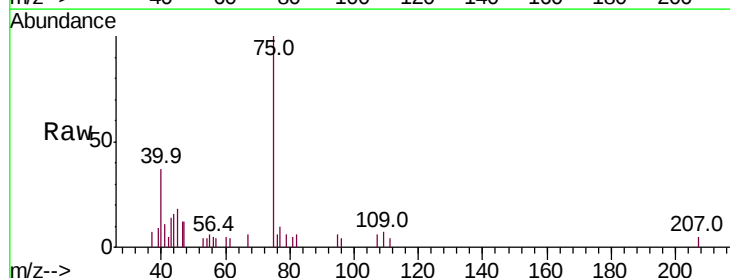
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

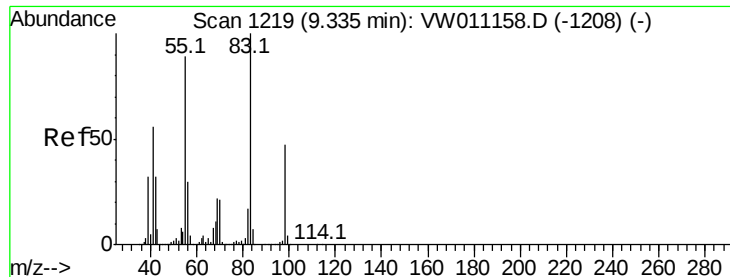
Tot Ion: 75 Resp: 348
 Ion Ratio Lower Upper
 75 100
 110 26.7 15.9 47.6
 77 52.3 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 11.957 ug/l
 RT: 7.12 min Scan# 856
 Delta R.T. -0.13 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

Tgt Ion: 43 Resp: 507
 Ion Ratio Lower Upper
 43 100
 61 13.2 9.5 14.3
 70 10.1 7.1 10.7





#39

Methylcyclohexane

Concen: 3.624 ug/l

RT: 9.32 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

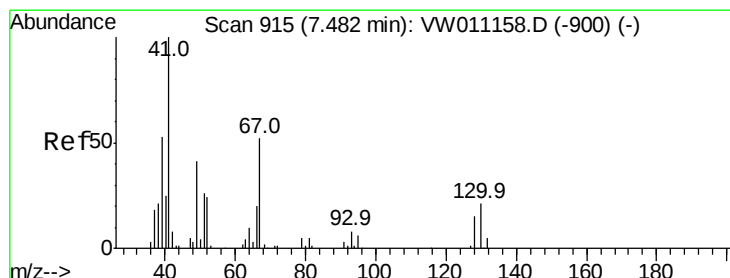
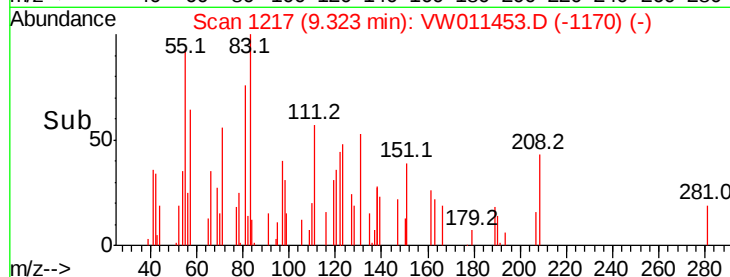
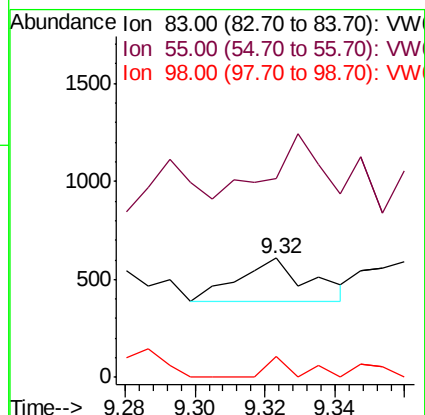
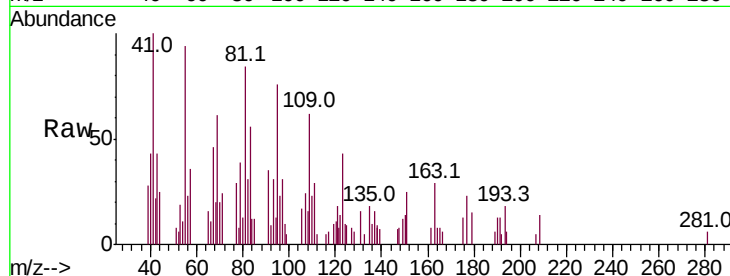
Tot Ion: 83 Resp: 310

Ion Ratio Lower Upper

83 100

55 37.4 71.2 106.8#

98 46.8 37.5 56.3



#41

Methacrylonitrile

Concen: 1.856 ug/l

RT: 7.46 min Scan# 912

Delta R.T. -0.02 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Tgt Ion: 41 Resp: 45

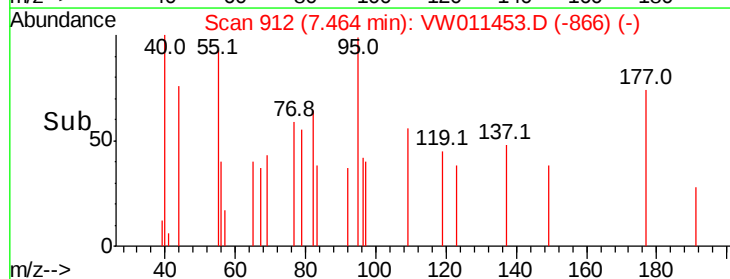
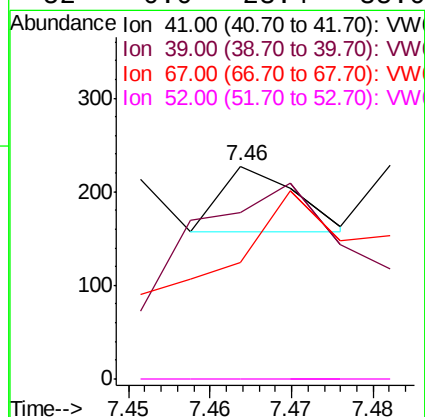
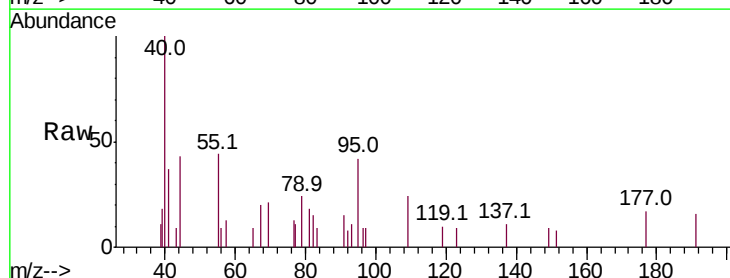
Ion Ratio Lower Upper

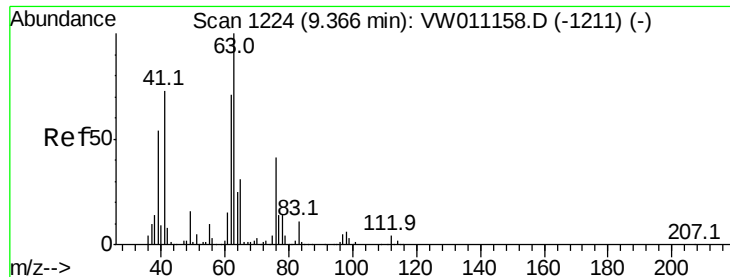
41 100

39 391.1 48.0 72.0#

67 933.3 49.7 74.5#

52 0.0 23.4 35.0#





#45

1,2-Dichloropropane

Concen: 2.632 ug/l

RT: 9.40 min Scan# 1230

Delta R.T. 0.04 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

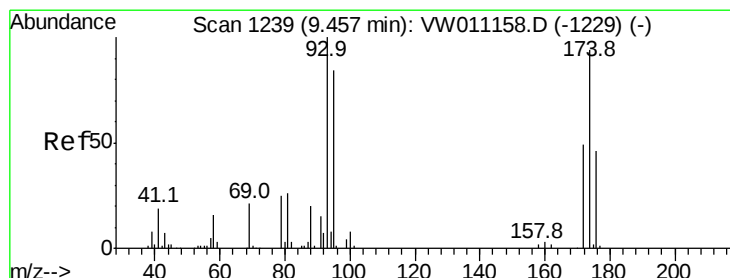
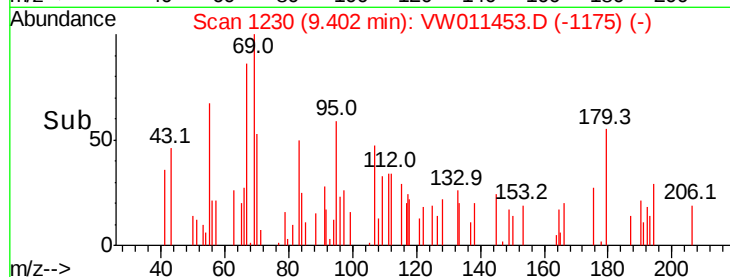
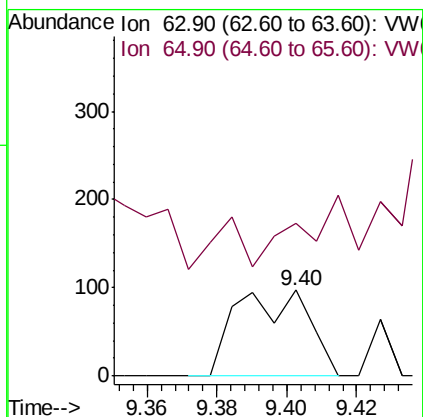
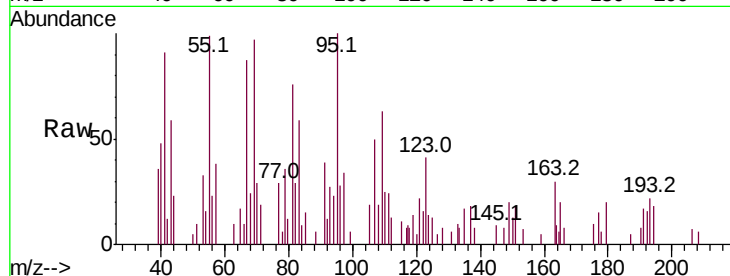
ROLL-OFF-COMP

Tot Ion: 63 Resp: 139

Ion Ratio Lower Upper

63 100

65 53.6 24.4 36.6#



#46

Dibromomethane

Concen: 23.217 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

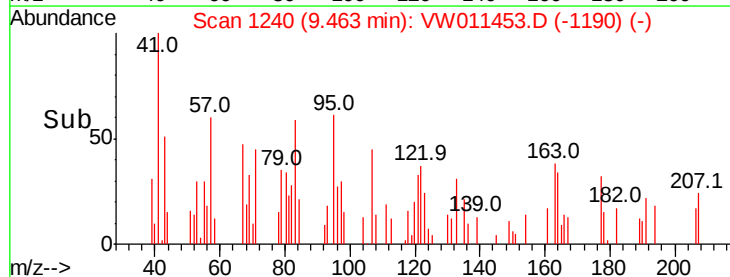
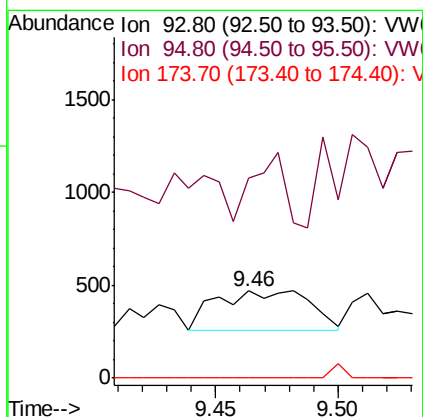
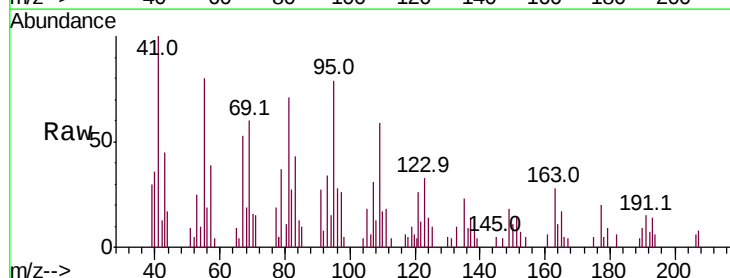
Tgt Ion: 93 Resp: 576

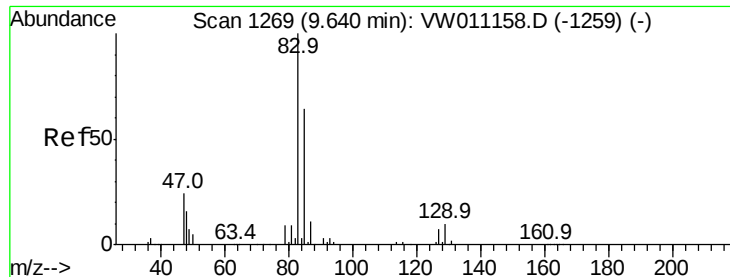
Ion Ratio Lower Upper

93 100

95 63.4 67.2 100.8#

174 0.0 76.3 114.5#





#47

Bromodichloromethane

Concen: 3.734 ug/l

RT: 9.63 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

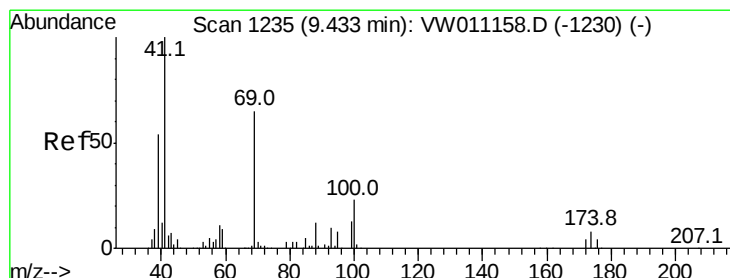
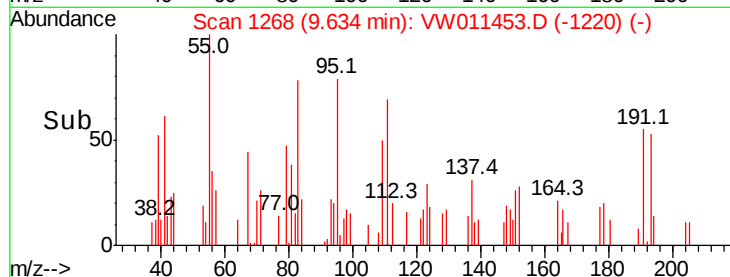
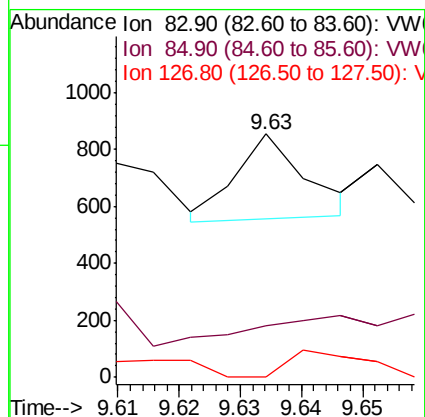
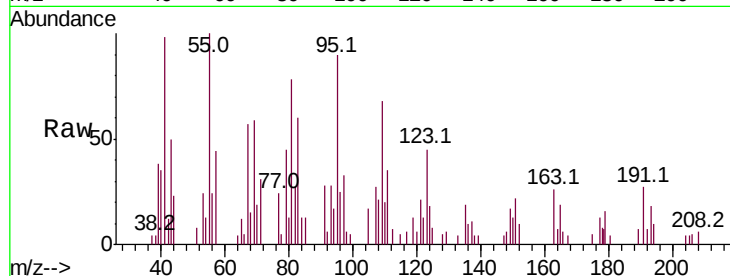
Tot Ion: 83 Resp: 237

Ion Ratio Lower Upper

83 100

85 14.7 51.0 76.4#

127 0.0 6.0 9.0#



#48

Methyl methacrylate

Concen: 14.385 ug/l

RT: 9.43 min Scan# 1234

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

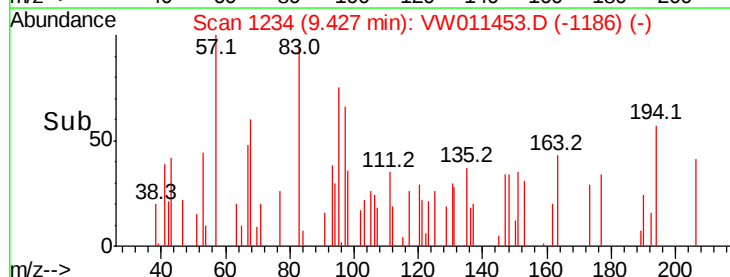
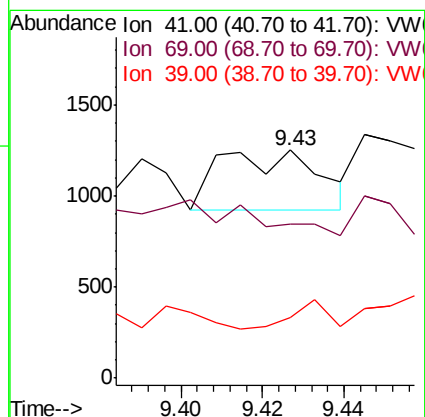
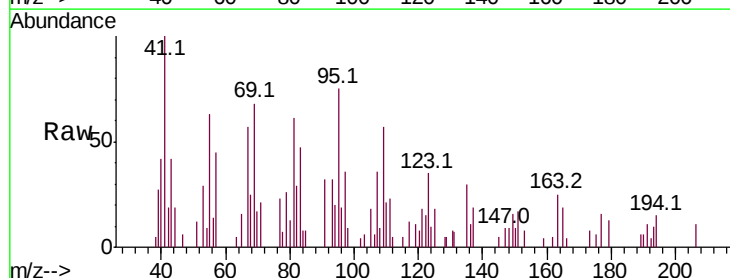
Tgt Ion: 41 Resp: 554

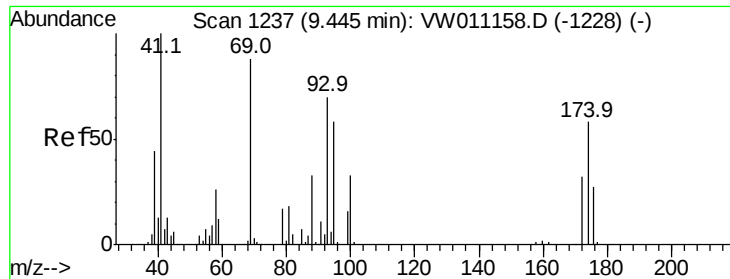
Ion Ratio Lower Upper

41 100

69 0.0 56.0 84.0#

39 17.3 43.5 65.3#

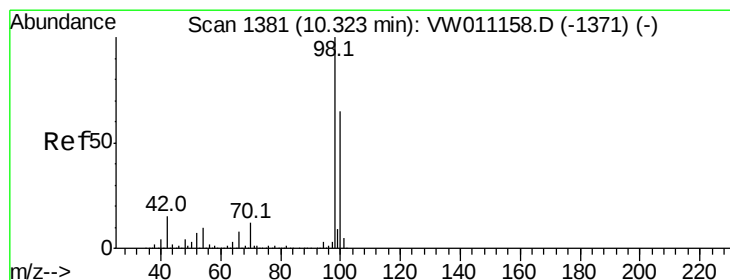
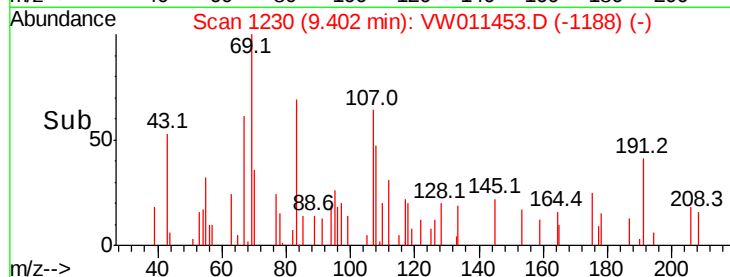
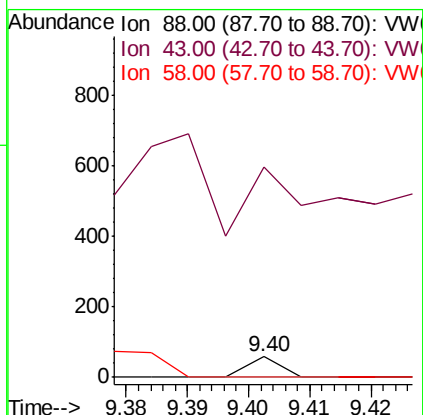
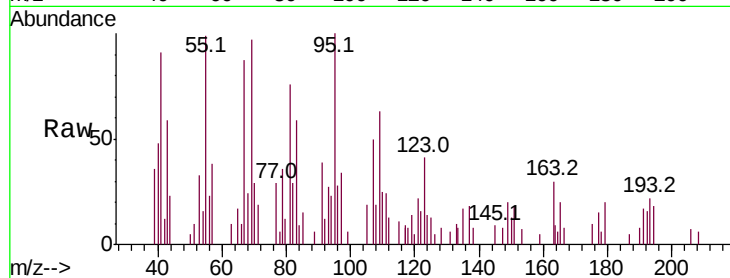




#49
 1,4-Dioxane
 Concen: 50.711 ug/l
 RT: 9.40 min Scan# 1230
 Delta R.T. -0.04 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

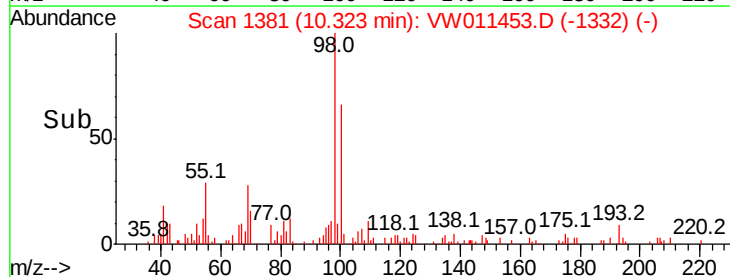
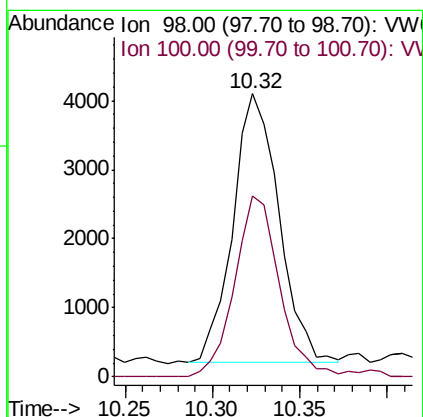
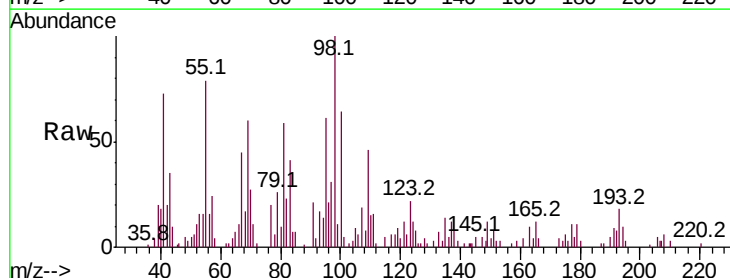
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

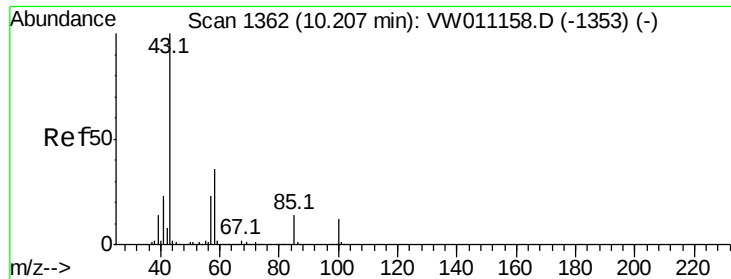
Tot Ion: 88 Resp: 21
 Ion Ratio Lower Upper
 88 100
 43 0.0 33.4 50.0#
 58 0.0 64.5 96.7#



#50
 Toluene-d8
 Concen: 44.775 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

Tgt Ion: 98 Resp: 7149
 Ion Ratio Lower Upper
 98 100
 100 66.0 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 12.292 ug/l

RT: 10.26 min Scan# 1370

Delta R.T. 0.05 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

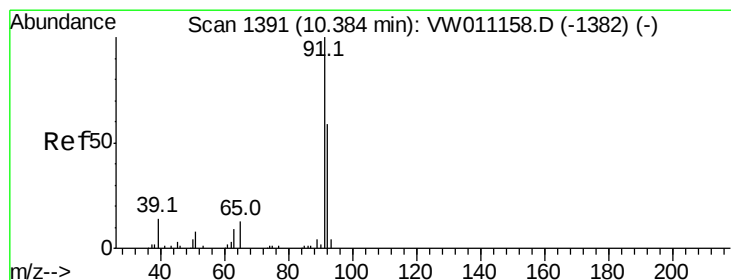
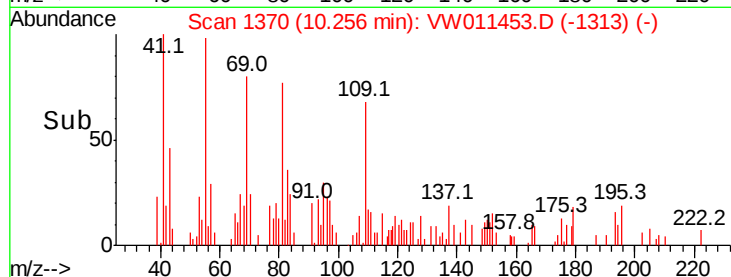
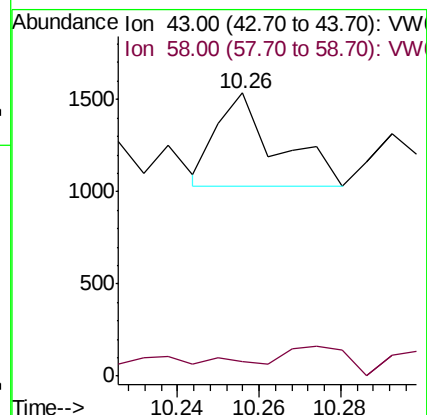
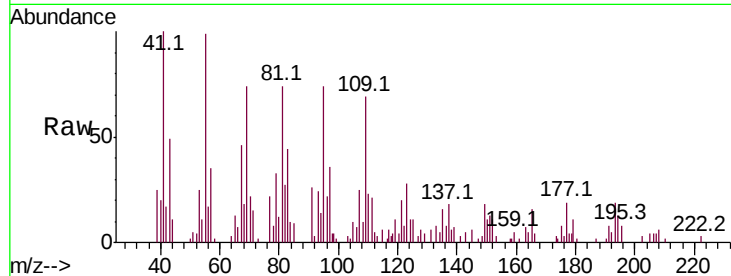
ROLL-OFF-COMP

Tot Ion: 43 Resp: 514

Ion Ratio Lower Upper

43 100

58 32.3 28.2 42.2



#52

Toluene

Concen: 1.319 ug/l

RT: 10.38 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VW011453.D

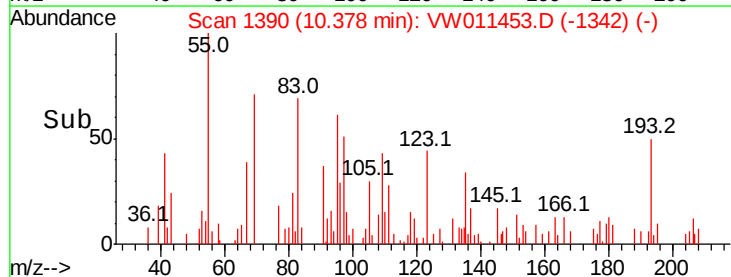
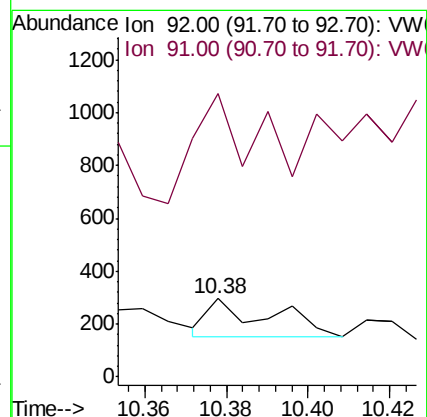
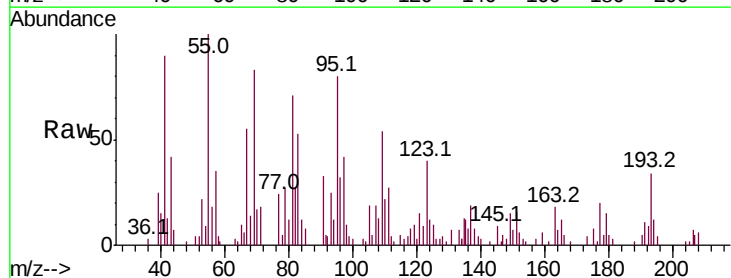
Acq: 24 Jul 2019 01:19

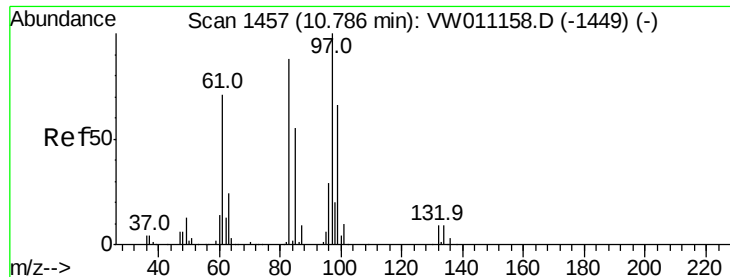
Tgt Ion: 92 Resp: 156

Ion Ratio Lower Upper

92 100

91 293.6 136.6 205.0#





#55

1,1,2-Trichloroethane

Concen: 9.064 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

Tot Ion: 97 Resp: 319

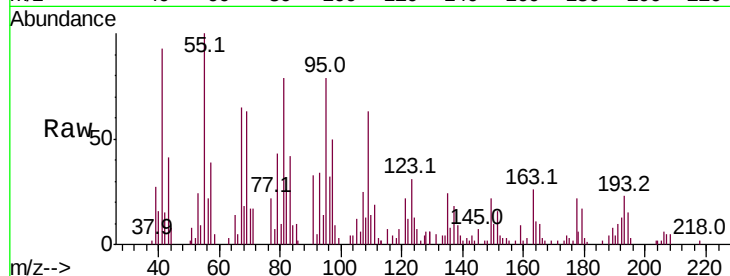
Ion Ratio Lower Upper

97 100

83 0.0 70.2 105.4#

85 6.8 44.2 66.2#

99 13.0 52.6 79.0#

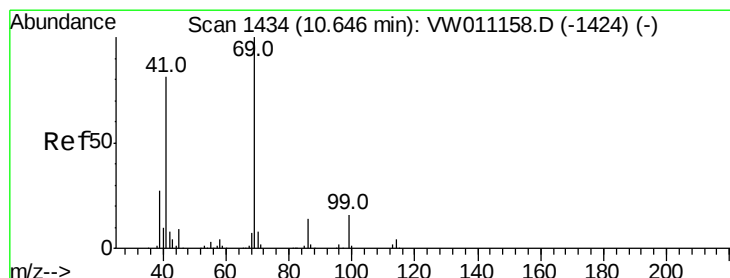
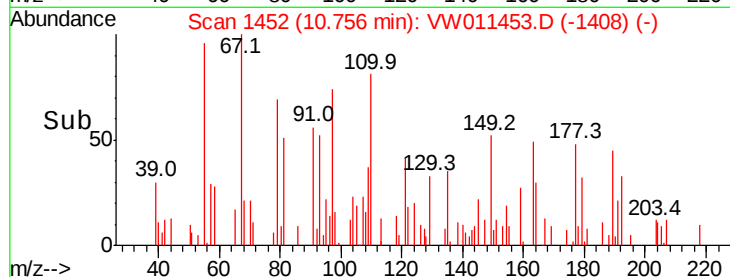
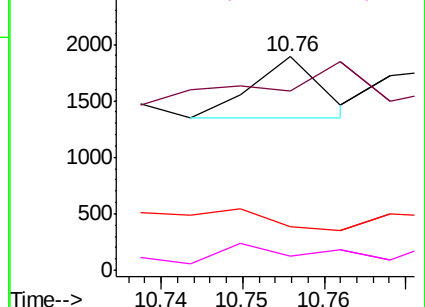


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 6.065 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

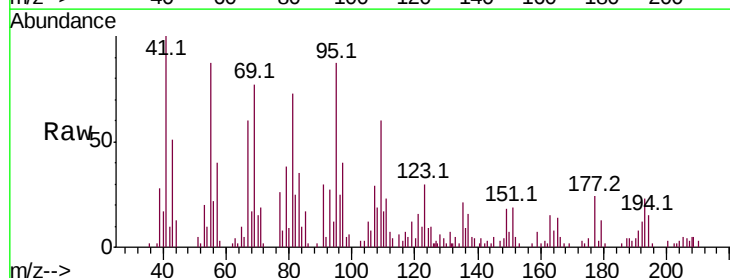
Tgt Ion: 69 Resp: 325

Ion Ratio Lower Upper

69 100

41 0.0 66.5 99.7#

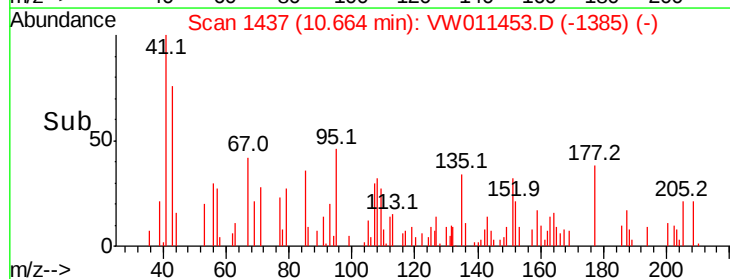
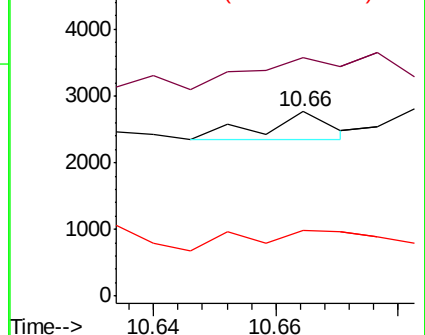
39 141.5 32.5 48.7#

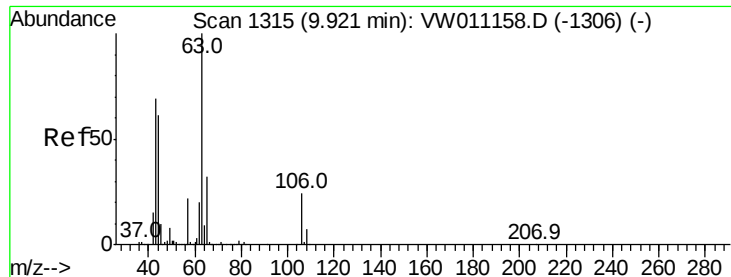


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

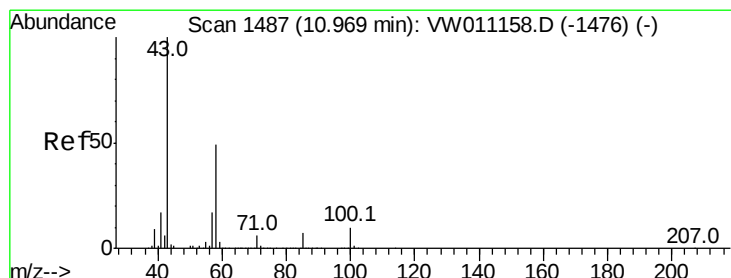
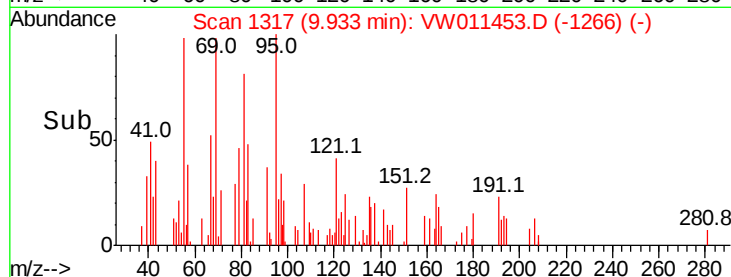
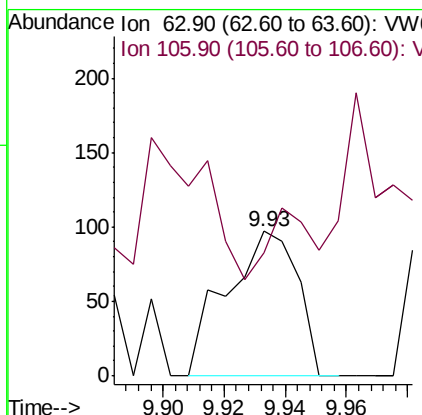
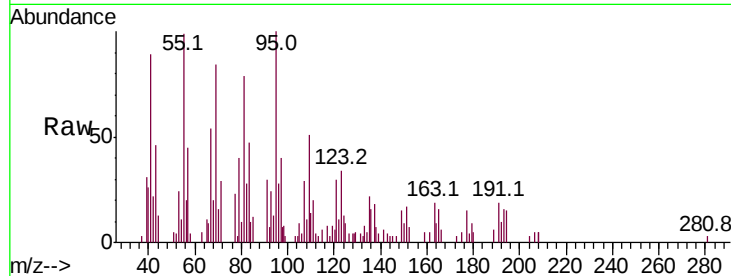




#58
 2-Chloroethyl Vinyl ether
 Concen: 6.280 ug/l
 RT: 9.93 min Scan# 1317
 Delta R.T. 0.01 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

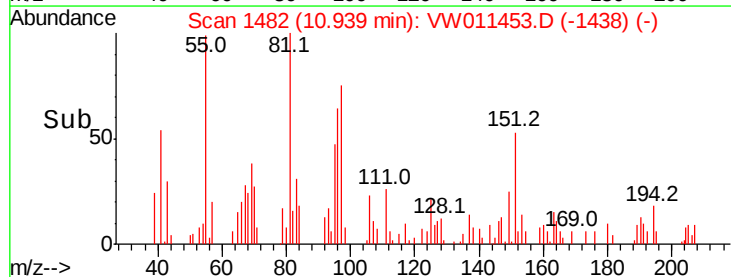
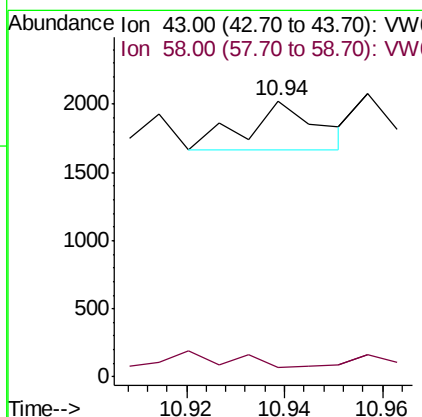
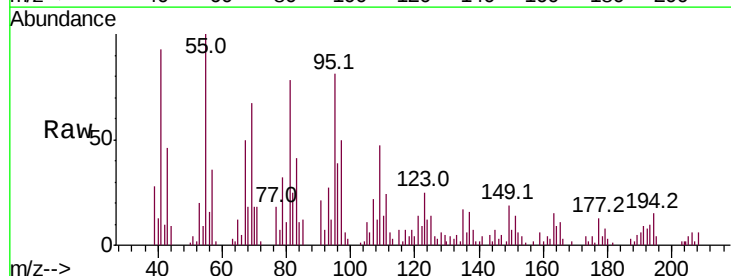
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

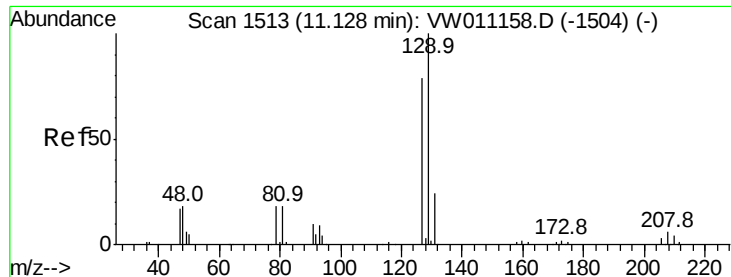
Tot Ion: 63 Resp: 156
 Ion Ratio Lower Upper
 63 100
 106 37.2 19.4 29.0#



#59
 2-Hexanone
 Concen: 12.138 ug/l
 RT: 10.94 min Scan# 1482
 Delta R.T. -0.03 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

Tgt Ion: 43 Resp: 352
 Ion Ratio Lower Upper
 43 100
 58 31.5 24.4 73.4





#60

Dibromochloromethane

Concen: 5.908 ug/l

RT: 11.11 min Scan# 1510

Delta R.T. -0.02 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

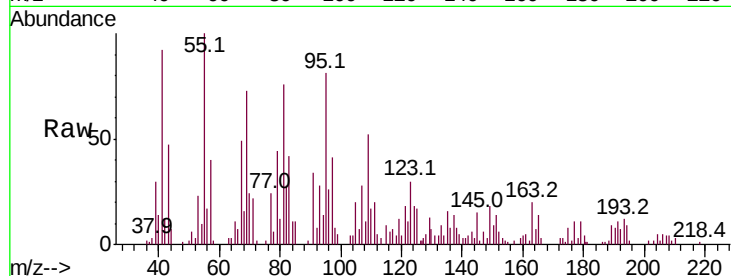
ROLL-OFF-COMP

Tot Ion:129 Resp: 228

Ion Ratio Lower Upper

129 100

127 62.3 39.1 117.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.11

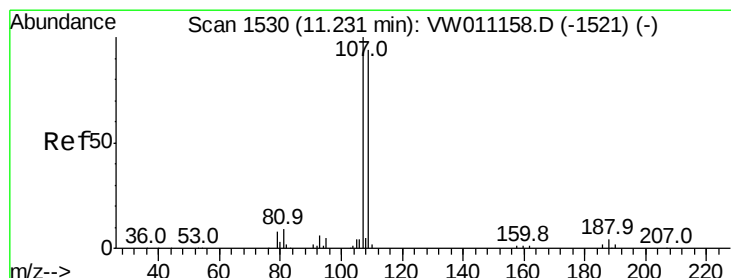
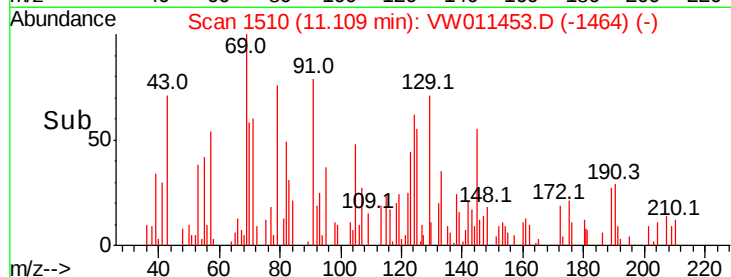
600

400

200

0

Time--> 11.08 11.10 11.12



#61

1,2-Dibromoethane

Concen: 12.598 ug/l

RT: 11.21 min Scan# 1527

Delta R.T. -0.02 min

Lab File: VW011453.D

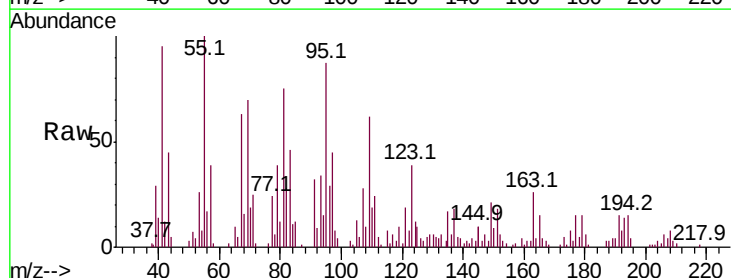
Acq: 24 Jul 2019 01:19

Tgt Ion:107 Resp: 420

Ion Ratio Lower Upper

107 100

109 247.6 75.2 112.8#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

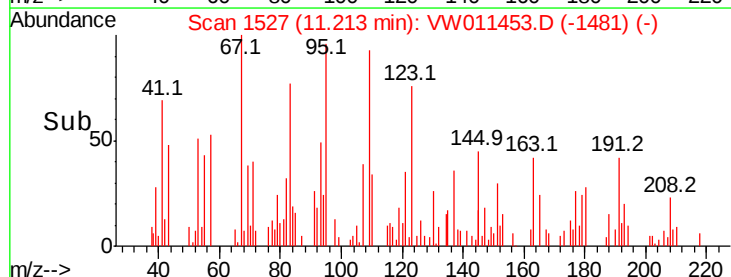
3000

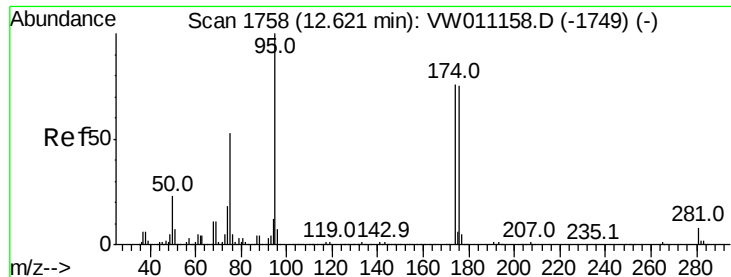
2000

1000

0

Time--> 11.20 11.22 11.24





#62

4-Bromofluorobenzene

Concen: 242.898 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

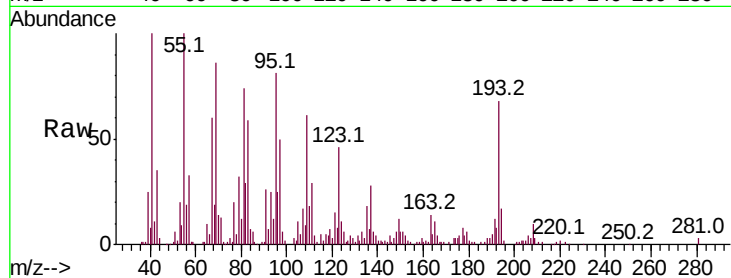
Tot Ion: 95 Resp: 14215

Ion Ratio Lower Upper

95 100

174 5.5 0.0 147.6

176 4.3 0.0 144.6



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

12.62

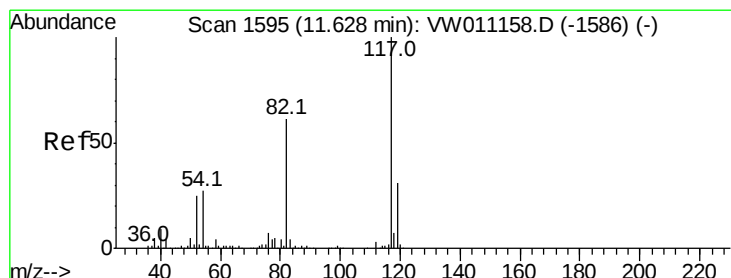
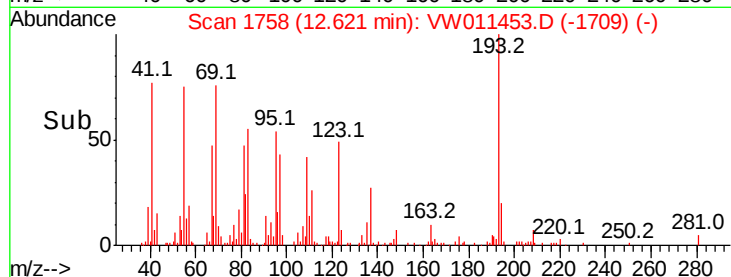
10000

5000

0

Time-->

12.50 12.55 12.60 12.65



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

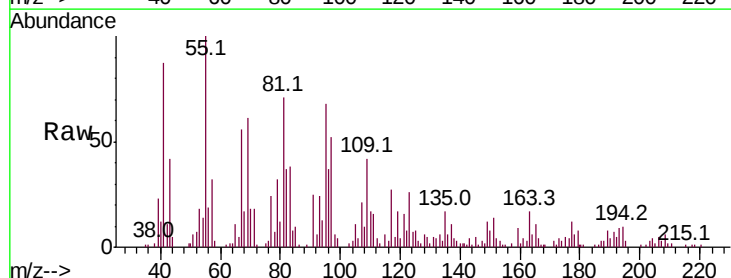
Tgt Ion: 117 Resp: 3554

Ion Ratio Lower Upper

117 100

82 75.3 48.9 73.3#

119 45.2 25.0 37.6#



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

4000

3000

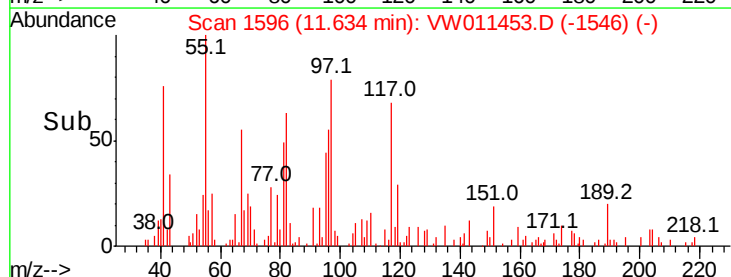
2000

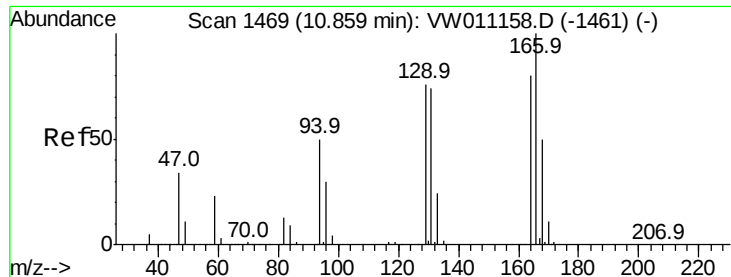
1000

0

Time-->

11.60 11.65 11.70





#64

Tetrachloroethene

Concen: 7.130 ug/l

RT: 10.87 min Scan# 1471

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

Tot Ion:164 Resp: 171

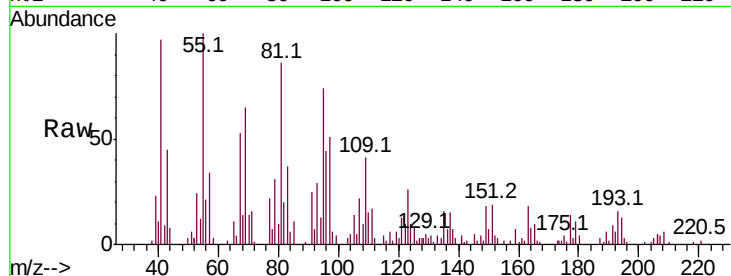
Ion Ratio Lower Upper

164 100

166 0.0 99.7 149.5#

129 0.0 76.2 114.2#

131 0.0 74.0 111.0#

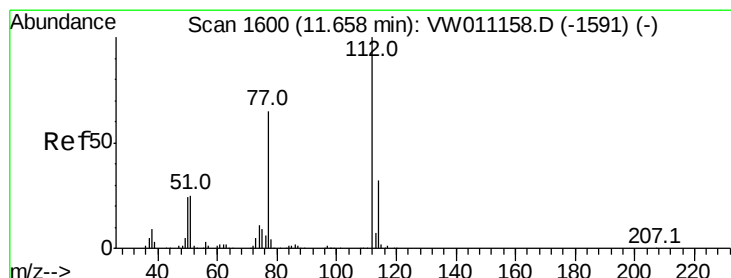
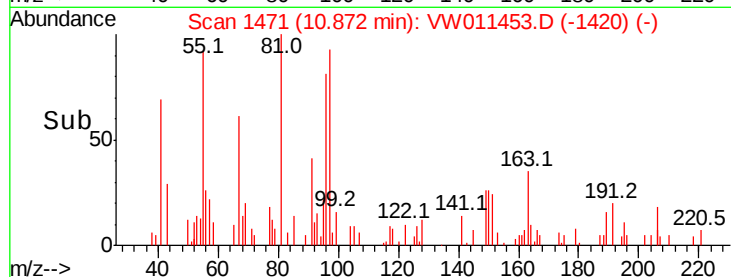
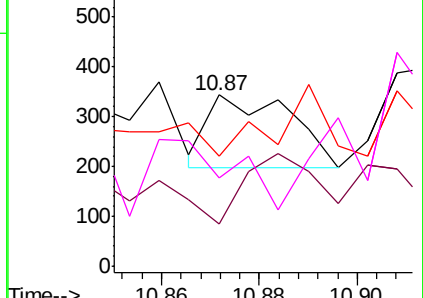


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 3.930 ug/l

RT: 11.65 min Scan# 1598

Delta R.T. -0.01 min

Lab File: VW011453.D

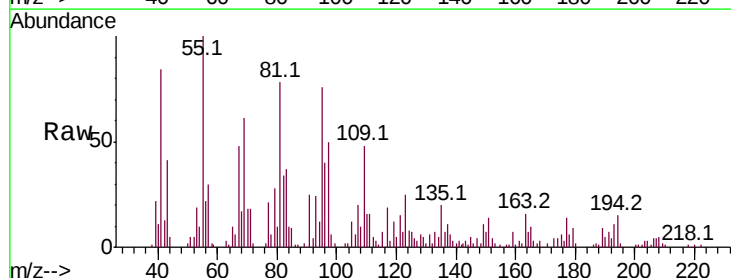
Acq: 24 Jul 2019 01:19

Tgt Ion:112 Resp: 284

Ion Ratio Lower Upper

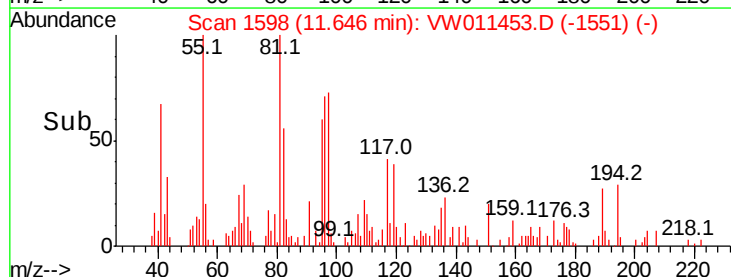
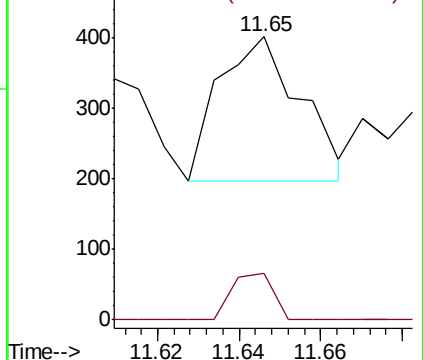
112 100

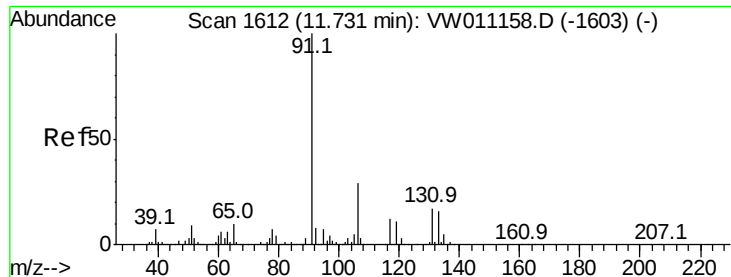
114 32.2 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

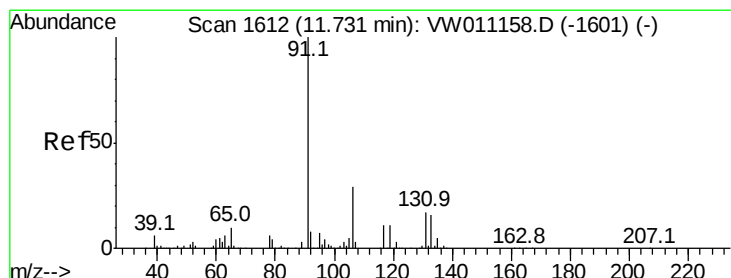
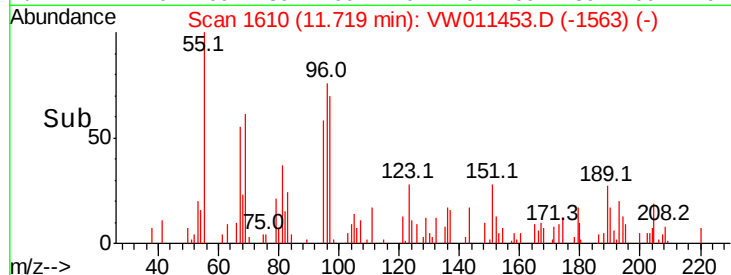
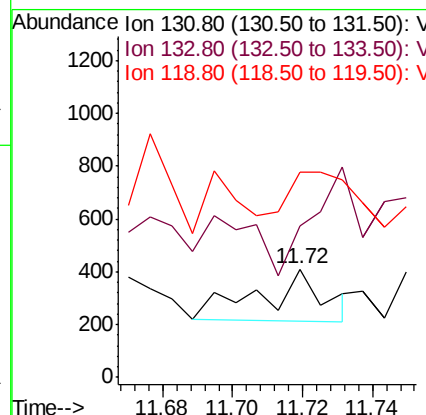
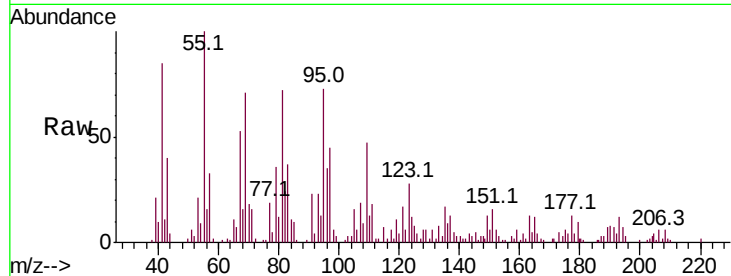




#66
 1,1,1,2-Tetrachloroethane
 Concen: 9.787 ug/l
 RT: 11.72 min Scan# 1610
 Delta R.T. -0.01 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

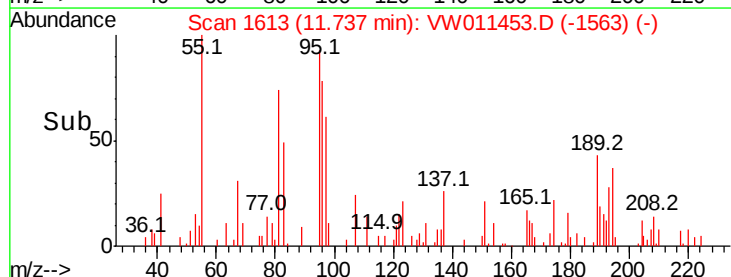
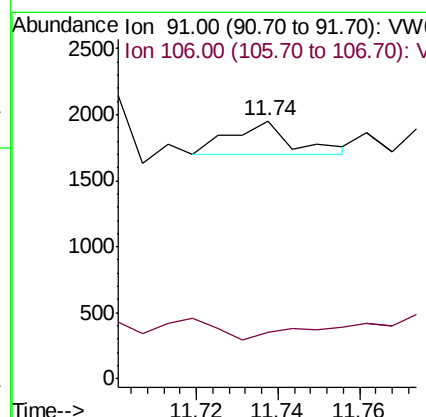
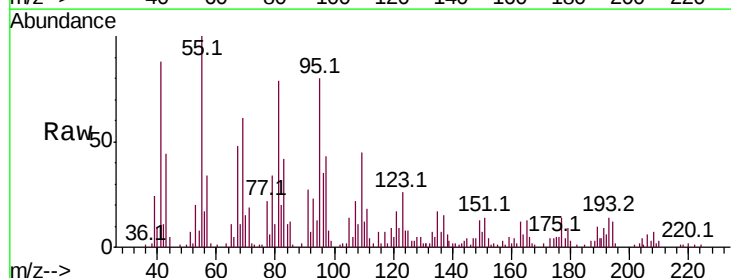
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

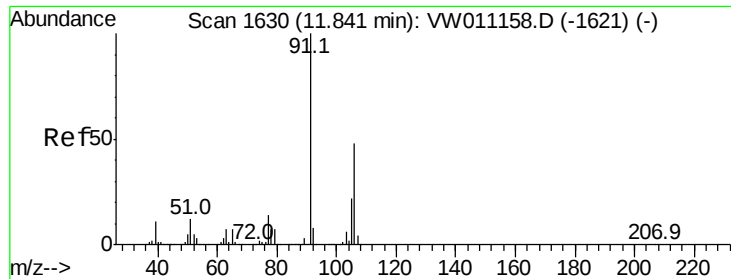
Tot Ion:131 Resp: 249
 Ion Ratio Lower Upper
 131 100
 133 145.8 47.9 143.8#
 119 110.4 33.1 99.2#



#67
 Ethyl Benzene
 Concen: 1.887 ug/l
 RT: 11.74 min Scan# 1613
 Delta R.T. 0.01 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

Tgt Ion: 91 Resp: 261
 Ion Ratio Lower Upper
 91 100
 106 0.0 23.5 35.3#

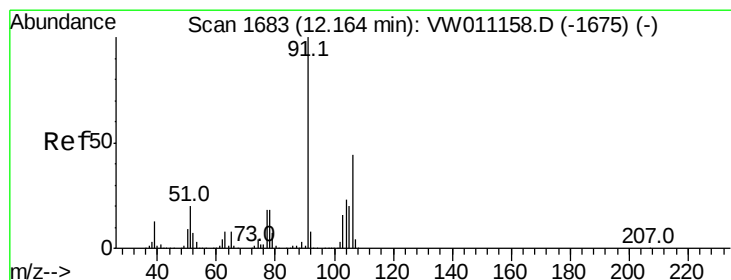
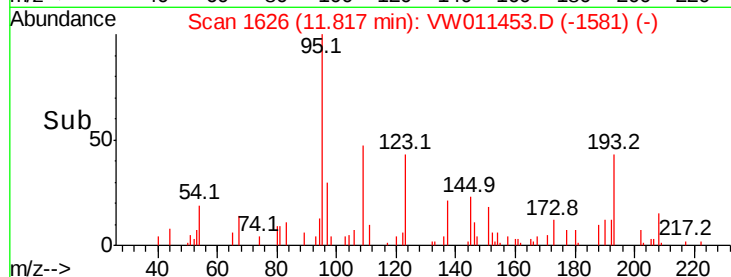
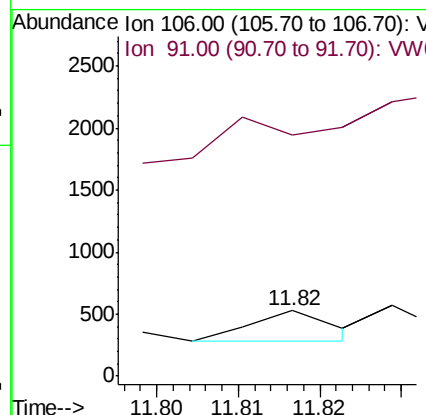
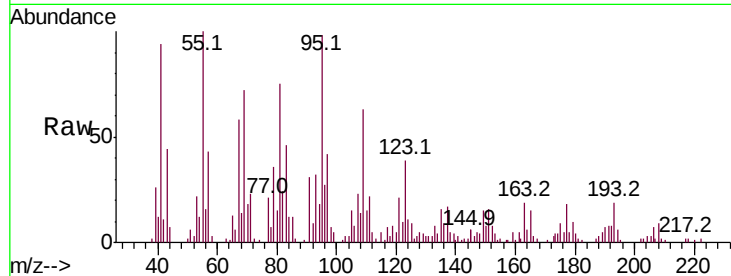




#68
m/p-Xylenes
Concen: 3.257 ug/l
RT: 11.82 min Scan# 1626
Delta R.T. -0.02 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

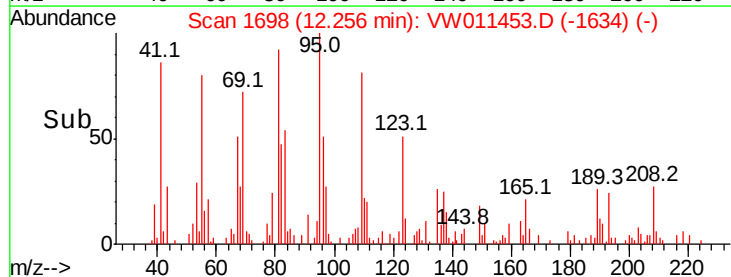
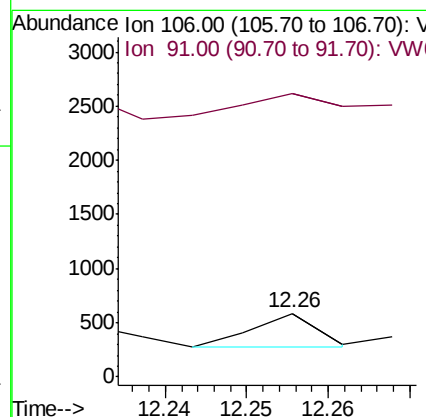
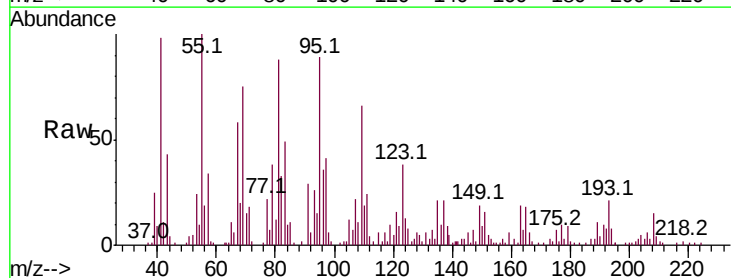
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

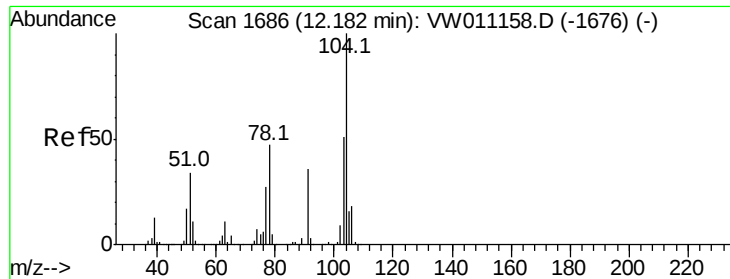
Tot Ion:106 Resp: 163
Ion Ratio Lower Upper
106 100
91 487.7 167.7 251.5#



#69
o-Xylene
Concen: 3.561 ug/l
RT: 12.26 min Scan# 1698
Delta R.T. 0.09 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

Tgt Ion:106 Resp: 168
Ion Ratio Lower Upper
106 100
91 200.6 110.7 332.1





#70

Stvrene

Concen: 2.395 ug/l

RT: 12.20 min Scan# 1689

Delta R.T. 0.02 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampled :

ROLL-OFF-COMP

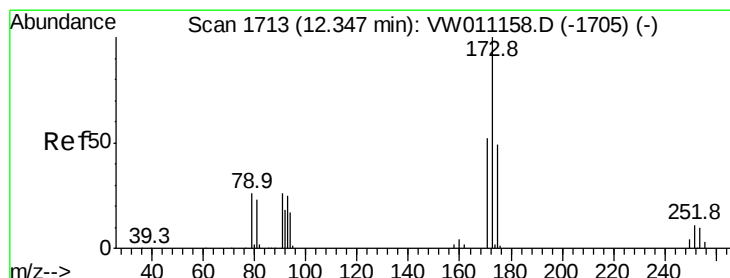
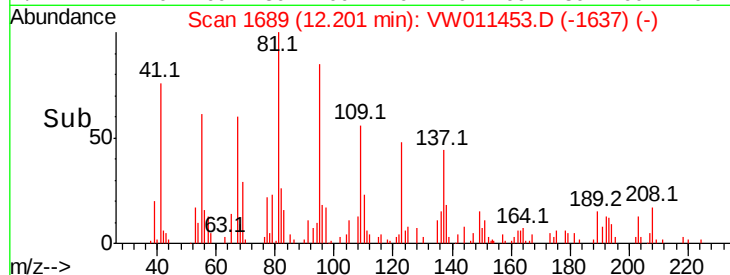
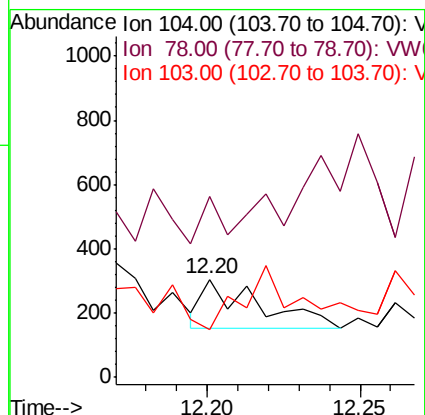
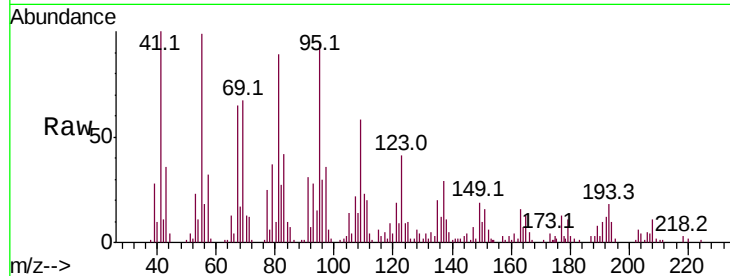
Tot Ion:104 Resp: 195

Ion Ratio Lower Upper

104 100

78 33.8 43.1 64.7#

103 99.5 44.1 66.1#



#71

Bromoform

Concen: 95.439 ug/l

RT: 12.30 min Scan# 1705

Delta R.T. -0.05 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

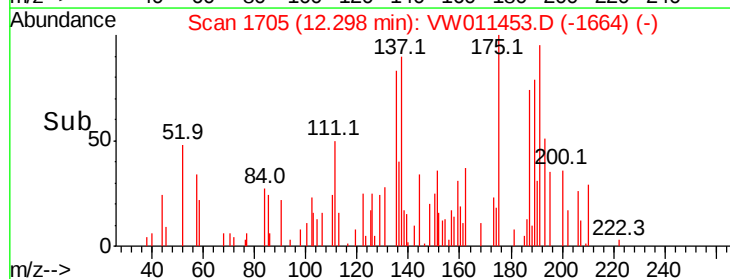
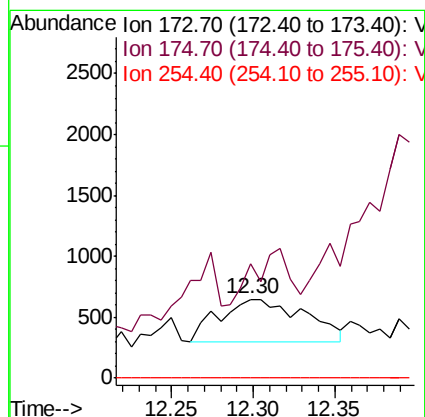
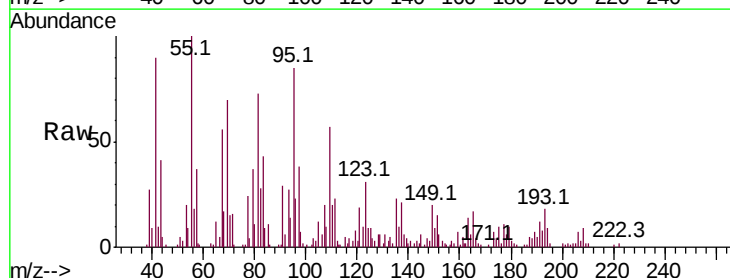
Tgt Ion:173 Resp: 1291

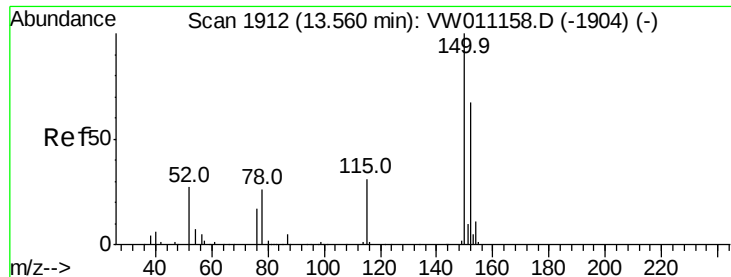
Ion Ratio Lower Upper

173 100

175 52.1 24.8 74.3

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

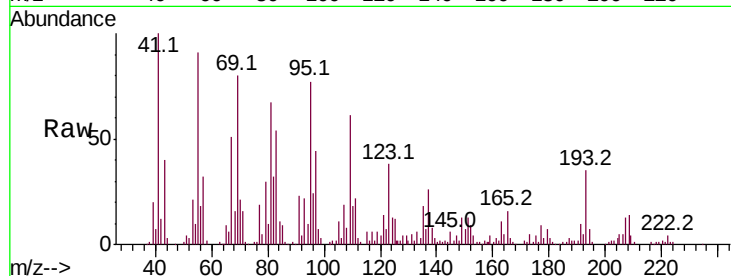
Tot Ion:152 Resp: 5031

Ion Ratio Lower Upper

152 100

115 17.2 30.1 90.3#

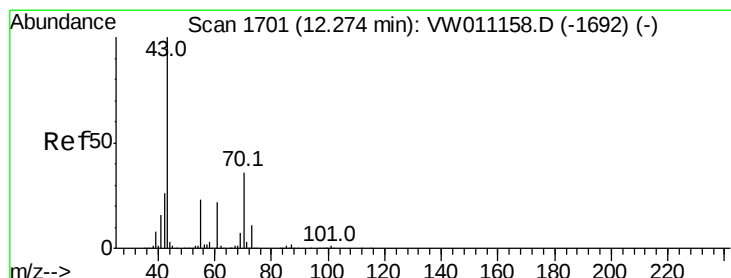
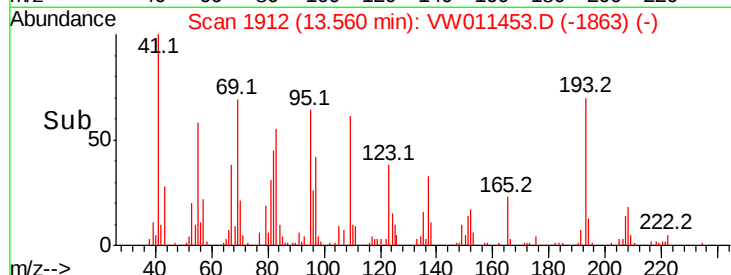
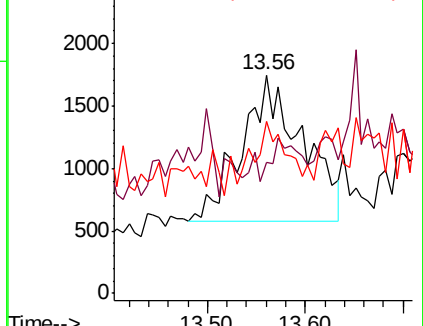
150 30.5 0.0 346.0



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: 6.299 ug/l

RT: 12.31 min Scan# 1707

Delta R.T. 0.04 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Tgt Ion: 43 Resp: 825

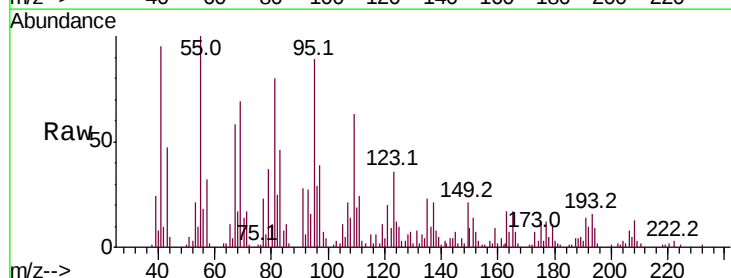
Ion Ratio Lower Upper

43 100

70 0.0 28.5 42.7#

55 0.0 18.1 27.1#

61 0.0 17.2 25.8#

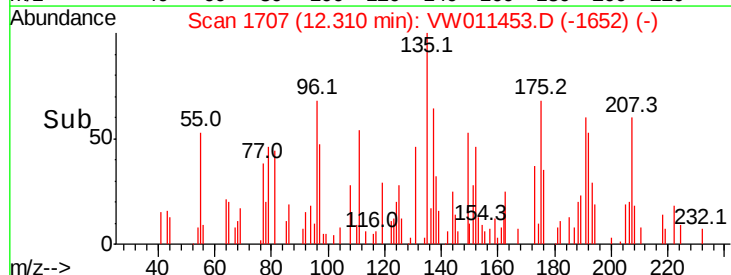
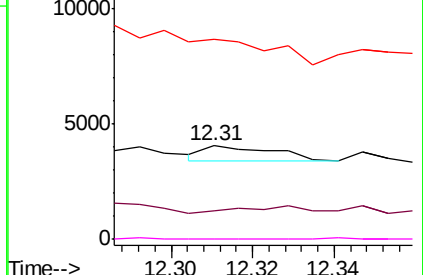


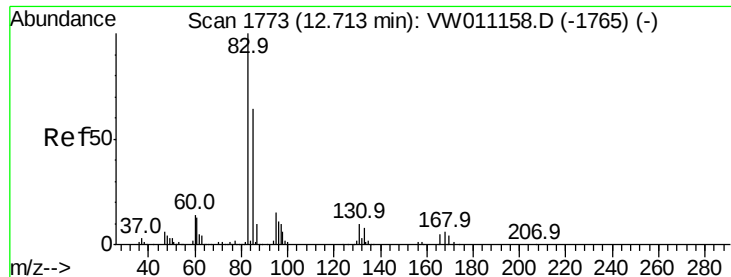
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 259.300 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.09 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampled :

ROLL-OFF-COMP

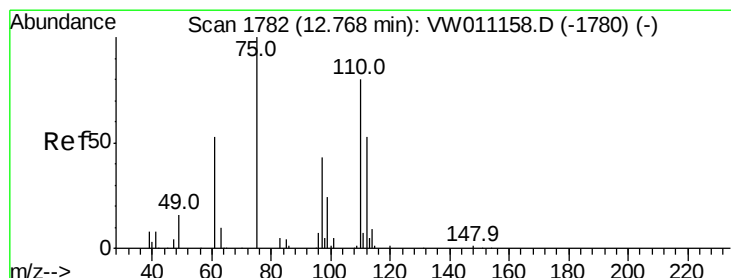
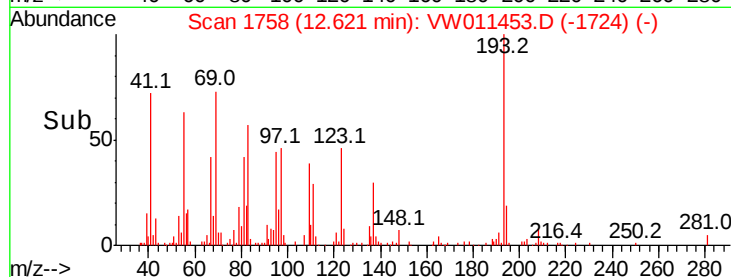
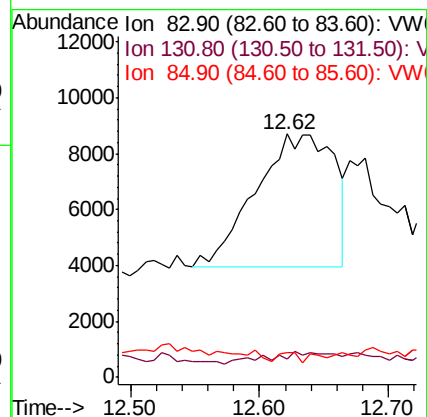
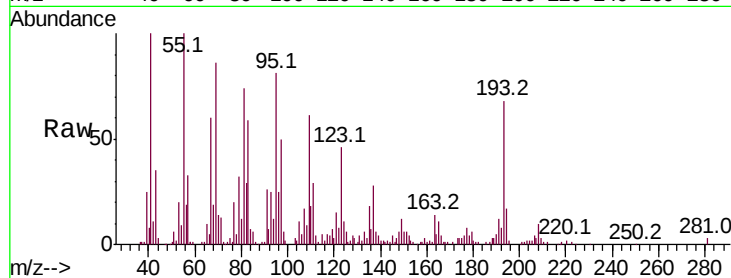
Tot Ion: 83 Resp: 19990

Ion Ratio Lower Upper

83 100

131 3.1 5.0 15.0#

85 2.1 31.6 94.8#



#76

1,2,3-Trichloropropane

Concen: 2.872 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.02 min

Lab File: VW011453.D

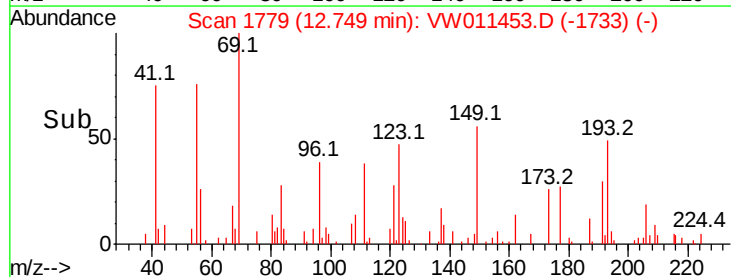
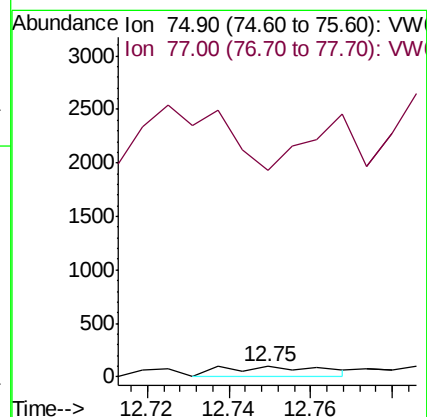
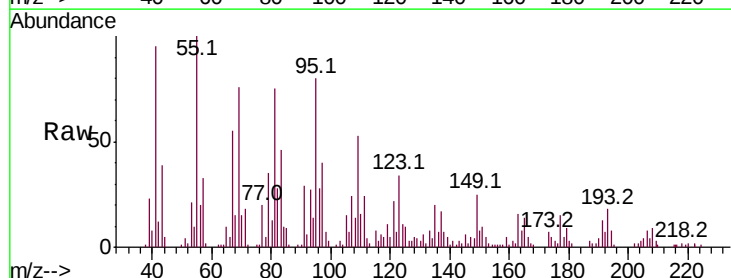
Acq: 24 Jul 2019 01:19

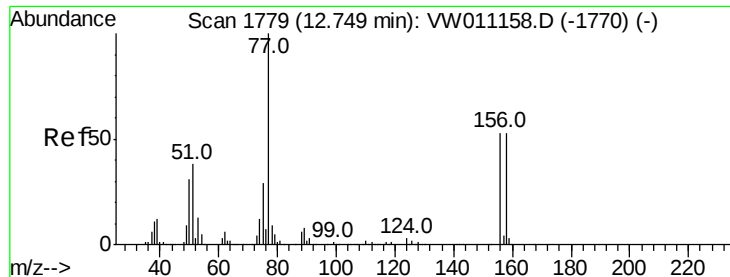
Tgt Ion: 75 Resp: 167

Ion Ratio Lower Upper

75 100

77 242.5 0.0 0.0#





#77

Bromobenzene

Concen: 1.469 ug/l

RT: 12.76 min Scan# 1780

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

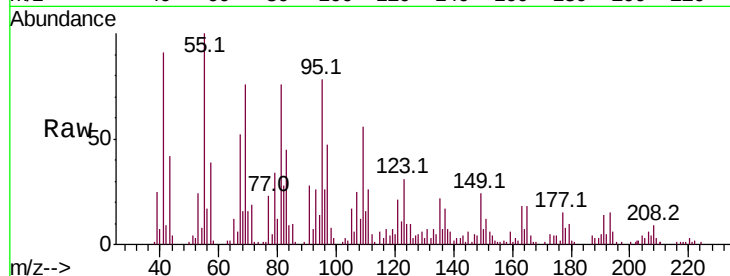
Tot Ion:156 Resp: 124

Ion Ratio Lower Upper

156 100

77 326.6 109.0 327.0

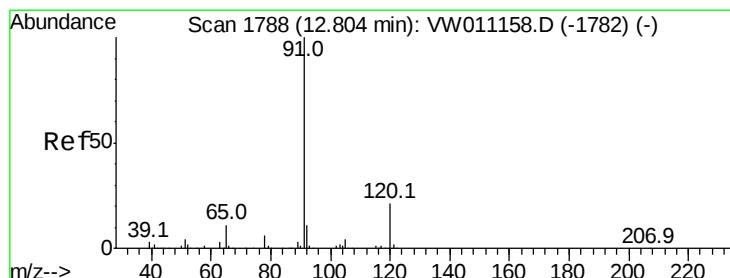
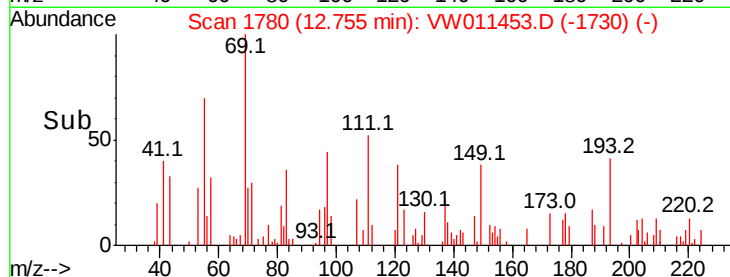
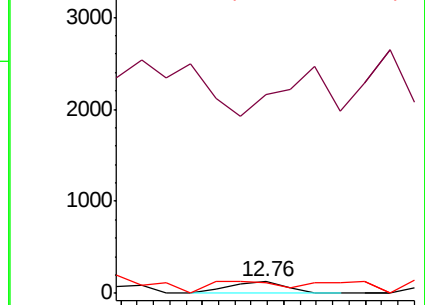
158 129.0 48.8 146.3



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



#78

n-propylbenzene

Concen: 1.813 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW011453.D

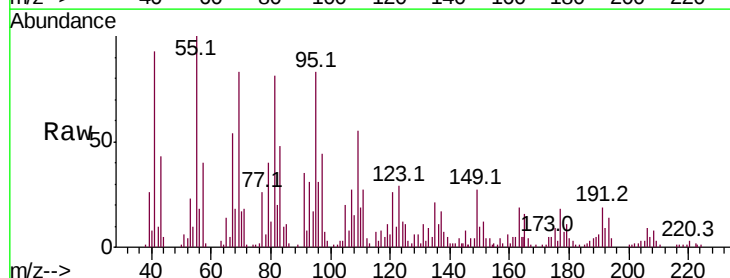
Acq: 24 Jul 2019 01:19

Tgt Ion: 91 Resp: 840

Ion Ratio Lower Upper

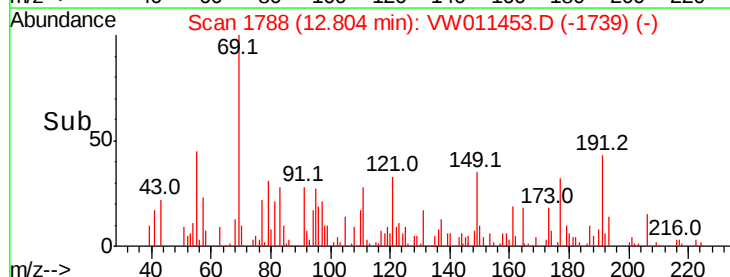
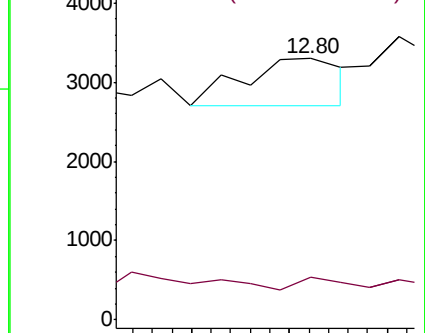
91 100

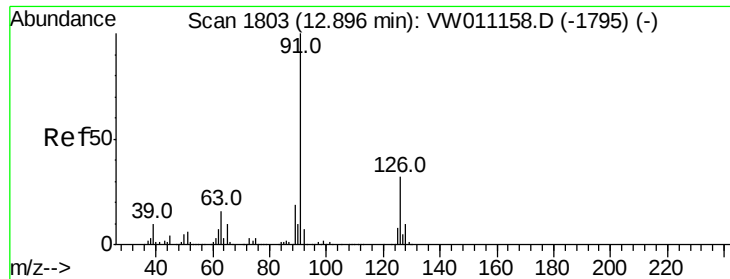
120 12.1 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.060 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

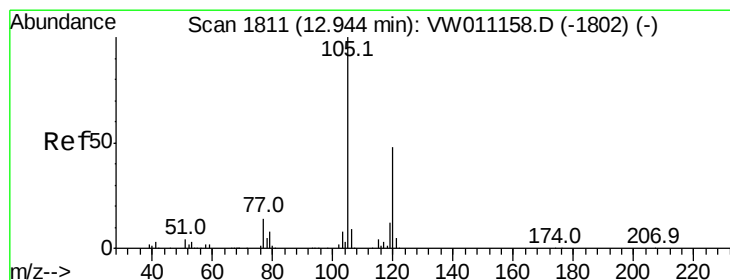
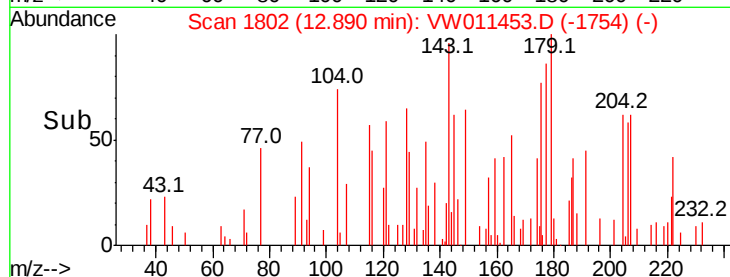
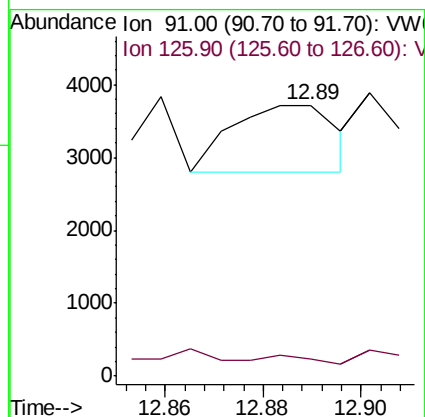
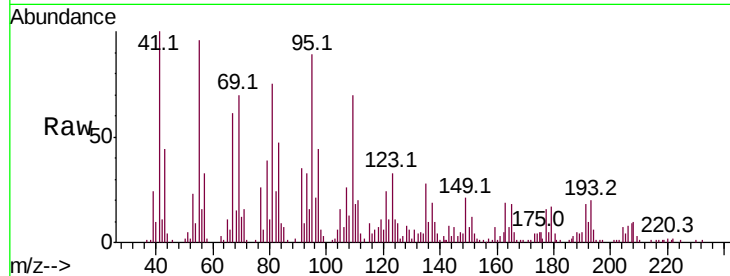
ROLL-OFF-COMP

Tot Ion: 91 Resp: 1349

Ion Ratio Lower Upper

91 100

126 23.1 15.8 47.3



#80

1,3,5-Trimethylbenzene

Concen: 1.762 ug/l

RT: 13.06 min Scan# 1830

Delta R.T. 0.12 min

Lab File: VW011453.D

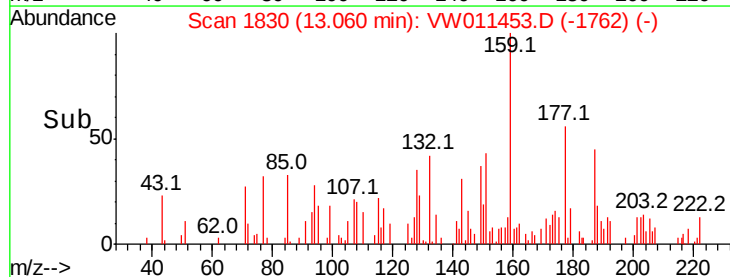
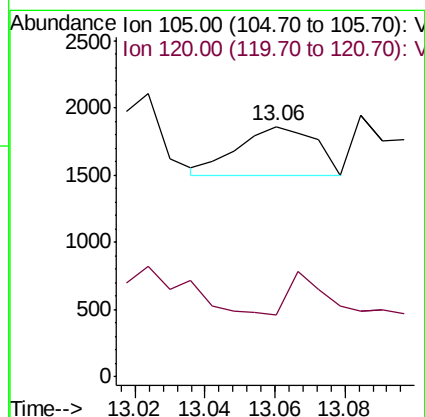
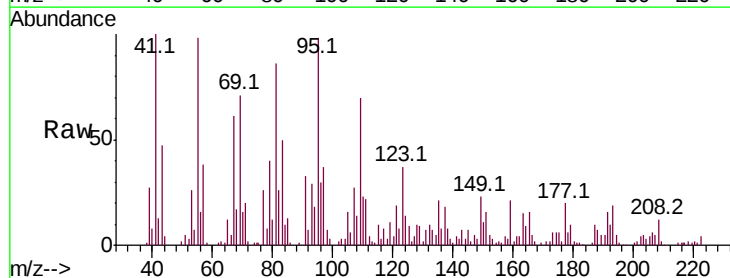
Acq: 24 Jul 2019 01:19

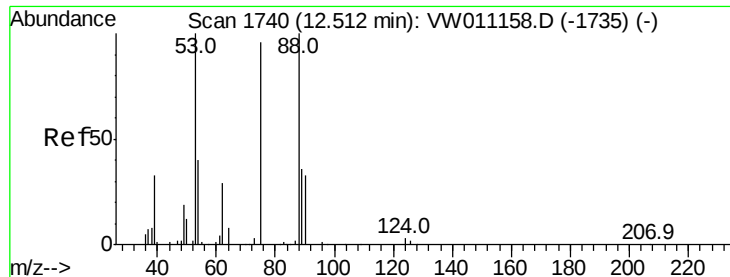
Tgt Ion: 105 Resp: 563

Ion Ratio Lower Upper

105 100

120 40.0 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 4.474 ug/l

RT: 12.48 min Scan# 1734

Delta R.T. -0.04 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

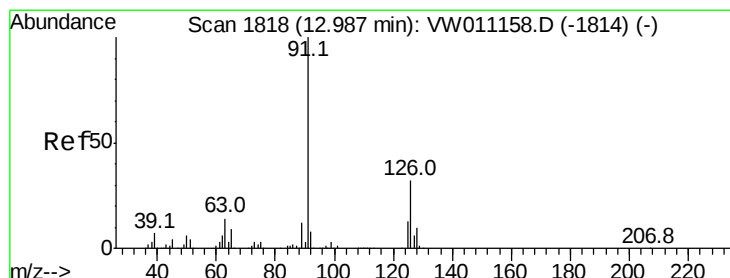
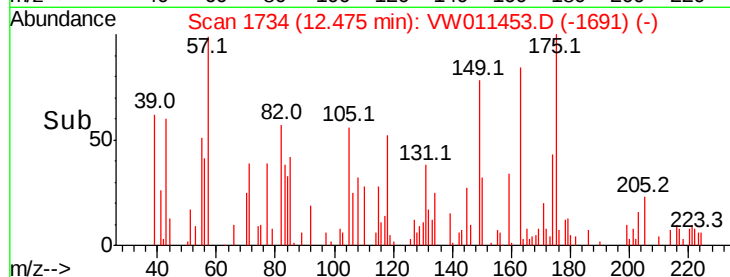
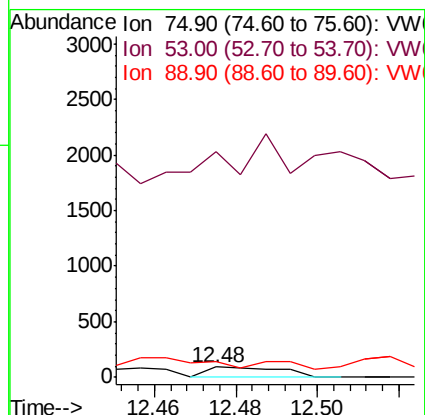
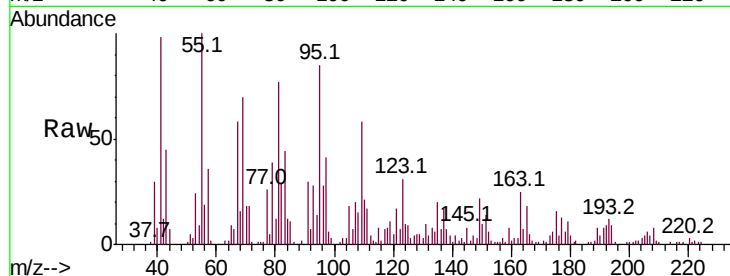
Tot Ion: 75 Resp: 115

Ion Ratio Lower Upper

75 100

53 346.1 89.8 134.6#

89 0.0 34.3 51.5#



#82

4-Chlorotoluene

Concen: 1.855 ug/l

RT: 12.98 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VW011453.D

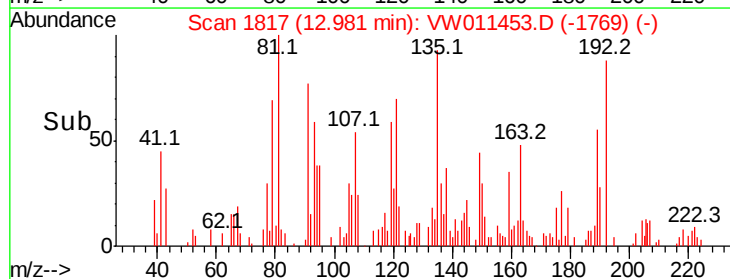
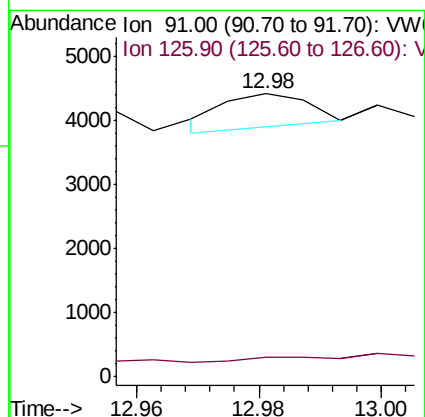
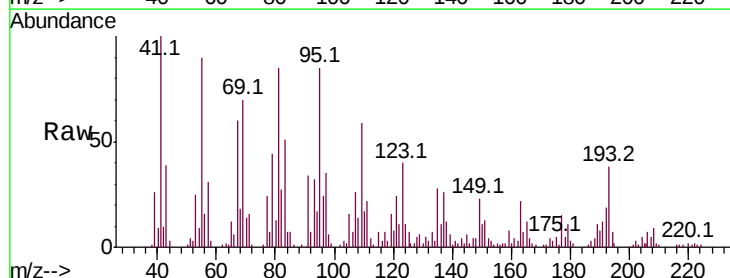
Acq: 24 Jul 2019 01:19

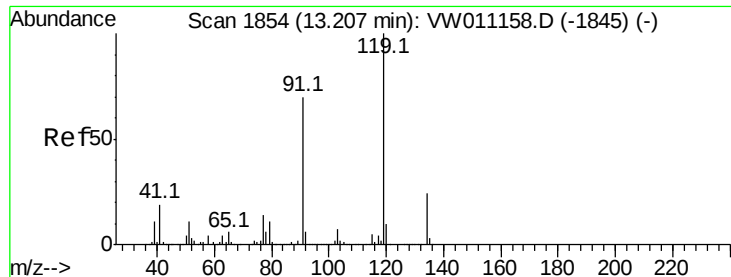
Tgt Ion: 91 Resp: 515

Ion Ratio Lower Upper

91 100

126 25.6 15.7 47.1

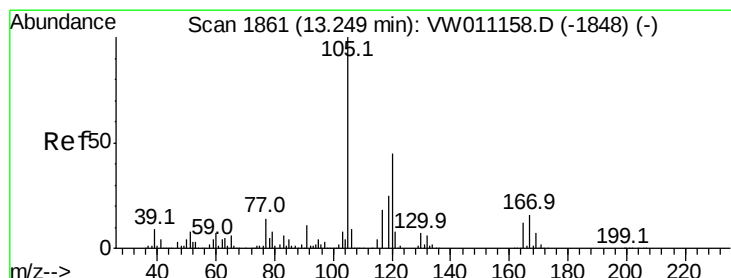
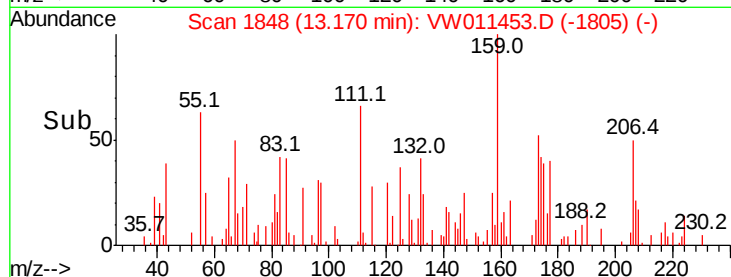
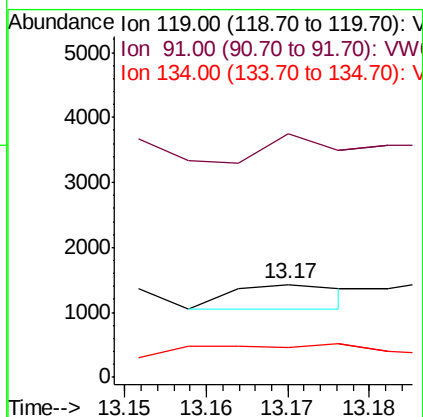
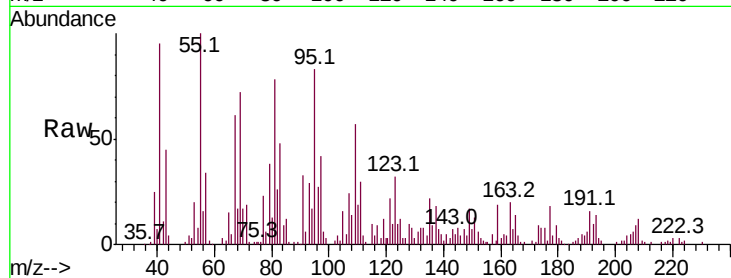




#83
tert-Butylbenzene
Concen: 1.381 ug/l
RT: 13.17 min Scan# 1848
Delta R.T. -0.04 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

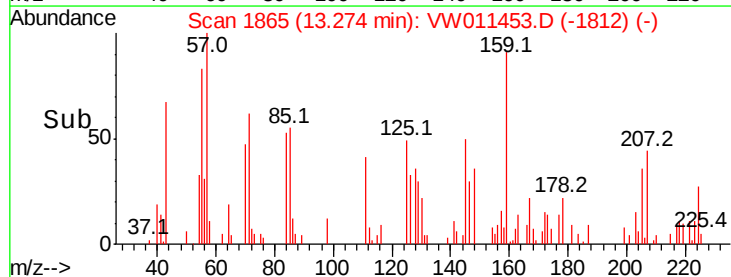
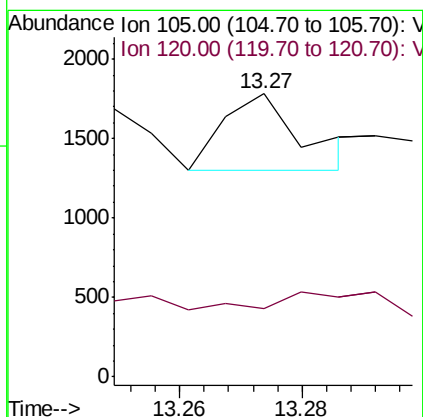
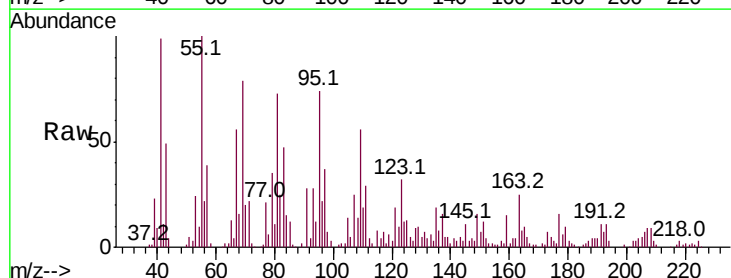
Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

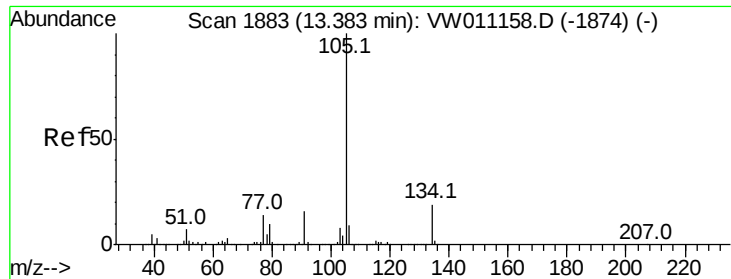
Tot Ion:119 Resp: 368
Ion Ratio Lower Upper
119 100
91 121.5 35.4 106.3#
134 88.3 13.4 40.2#



#84
1,2,4-Trimethylbenzene
Concen: 1.322 ug/l
RT: 13.27 min Scan# 1865
Delta R.T. 0.02 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

Tgt Ion:105 Resp: 424
Ion Ratio Lower Upper
105 100
120 35.6 22.3 66.9

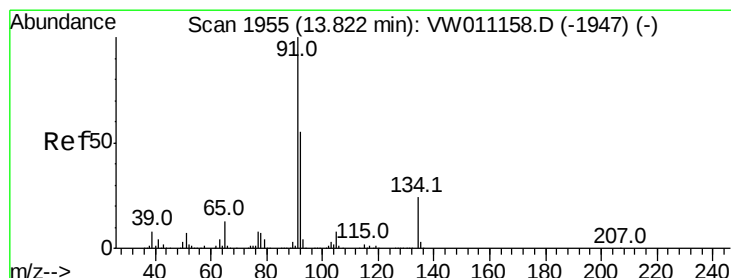
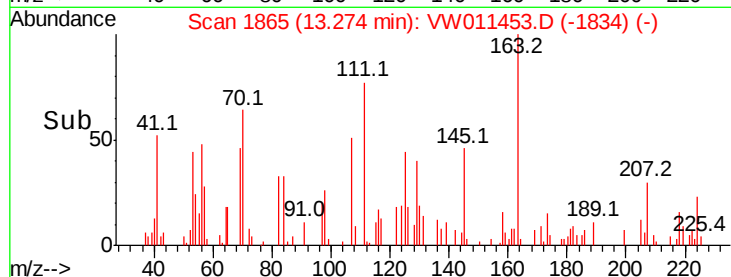
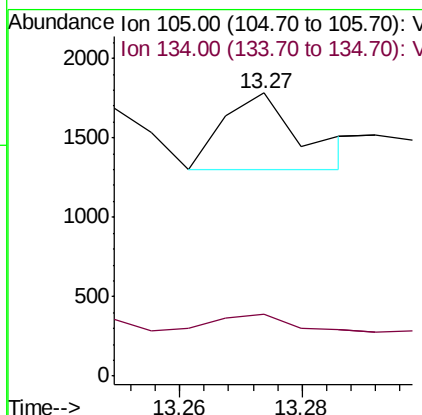
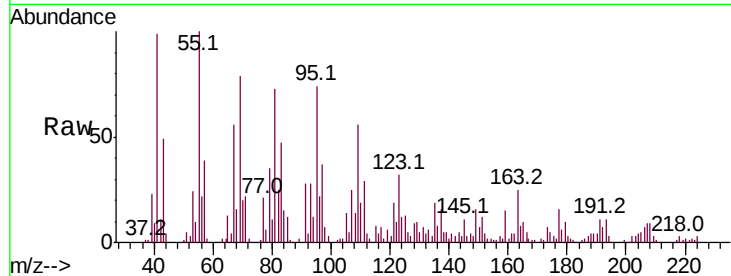




#85
 sec-Butylbenzene
 Concen: 1.103 ug/l
 RT: 13.27 min Scan# 1865
 Delta R.T. -0.11 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

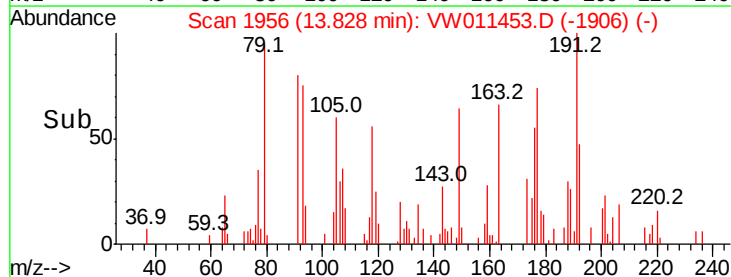
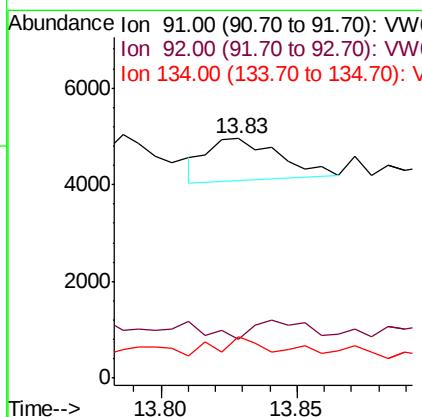
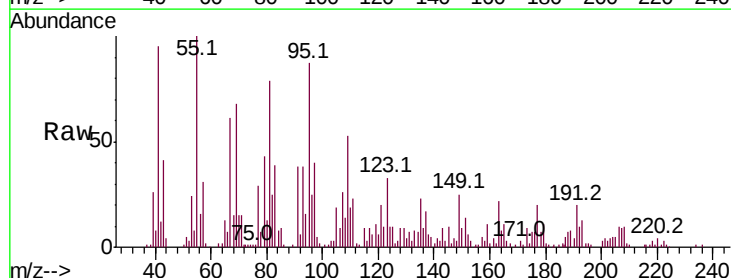
Instrument :
 MSVOA_W
 ClientSampleId :
 ROLL-OFF-COMP

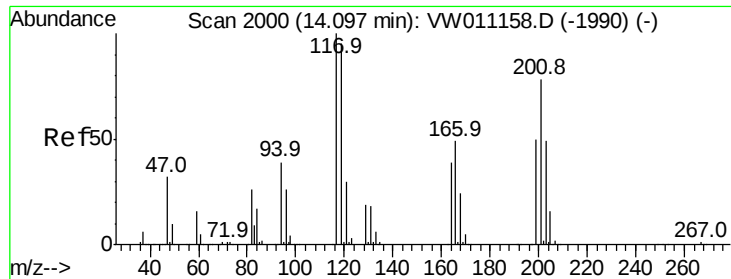
Tot Ion:105 Resp: 424
 Ion Ratio Lower Upper
 105 100
 134 22.4 9.7 28.9



#89
 n-Butylbenzene
 Concen: 4.590 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. 0.01 min
 Lab File: VW011453.D
 Acq: 24 Jul 2019 01:19

Tgt Ion: 91 Resp: 1579
 Ion Ratio Lower Upper
 91 100
 92 33.9 26.9 80.7
 134 27.4 12.2 36.4





#90

Hexachloroethane

Concen: 4.776 ug/l

RT: 14.07 min Scan# 1995

Delta R.T. -0.03 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampled :

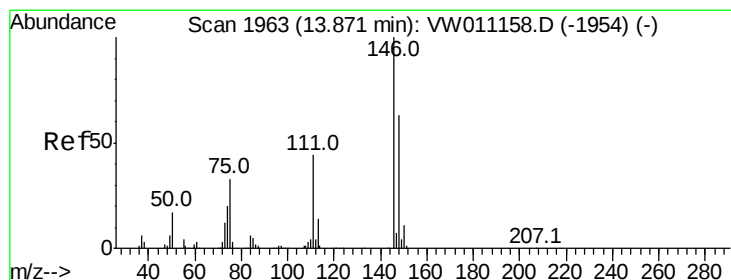
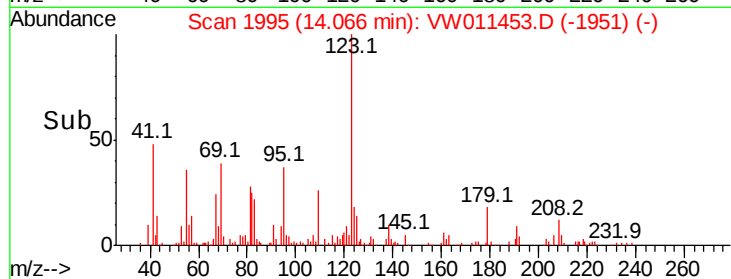
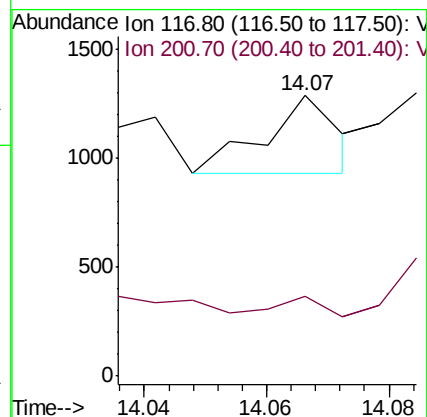
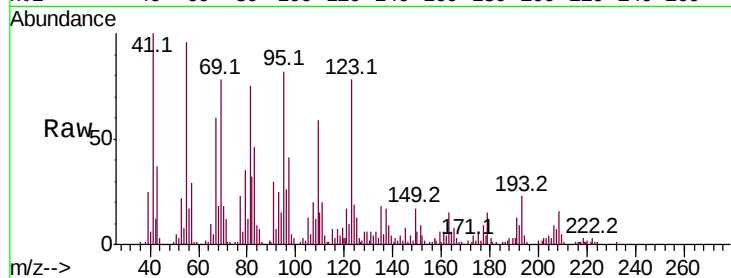
ROLL-OFF-COMP

Tot Ion:117 Resp: 301

Ion Ratio Lower Upper

117 100

201 72.8 38.3 114.8



#91

1,2-Dichlorobenzene

Concen: 2.335 ug/l

RT: 13.88 min Scan# 1965

Delta R.T. 0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

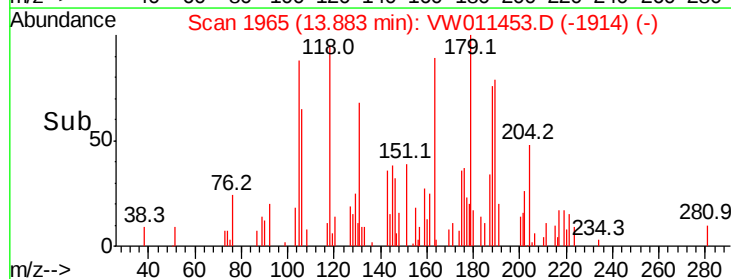
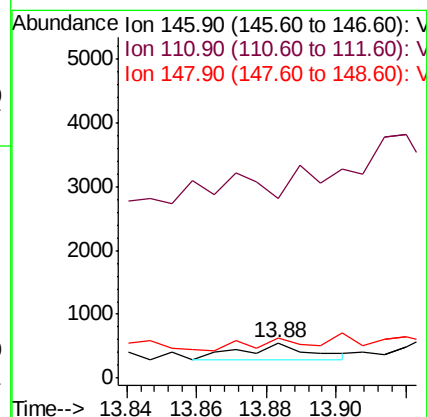
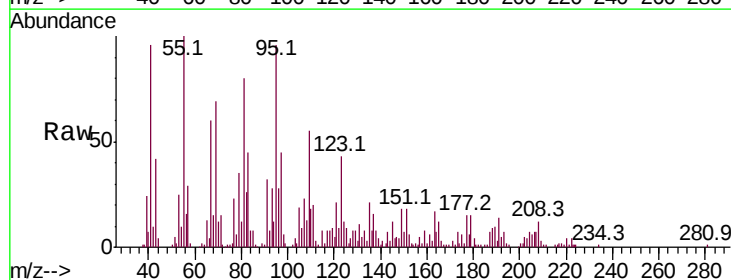
Tgt Ion:146 Resp: 344

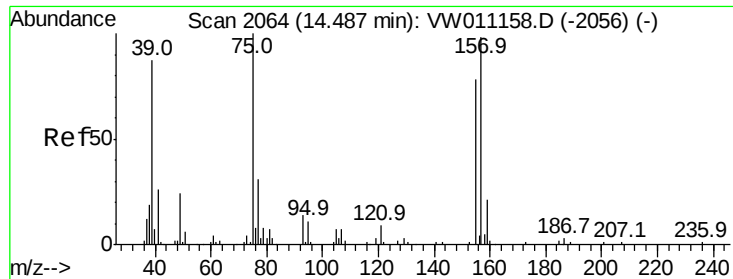
Ion Ratio Lower Upper

146 100

111 126.5 21.6 65.0#

148 0.0 31.9 95.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.094 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

Instrument :

MSVOA_W

ClientSampleId :

ROLL-OFF-COMP

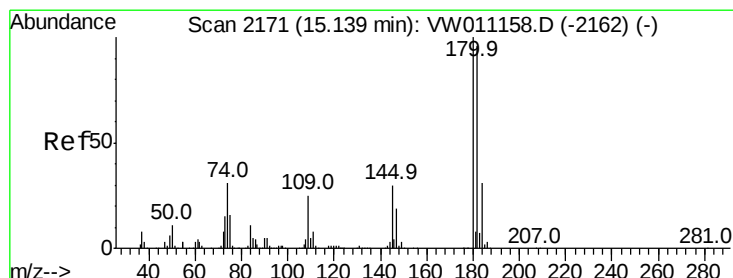
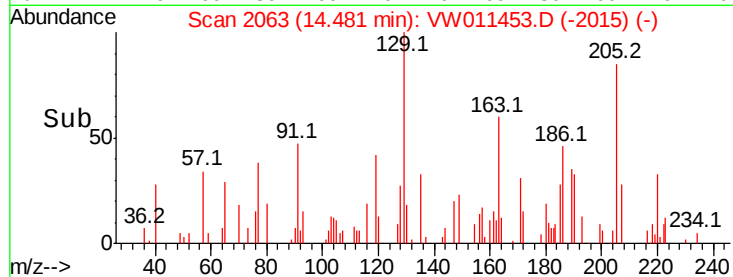
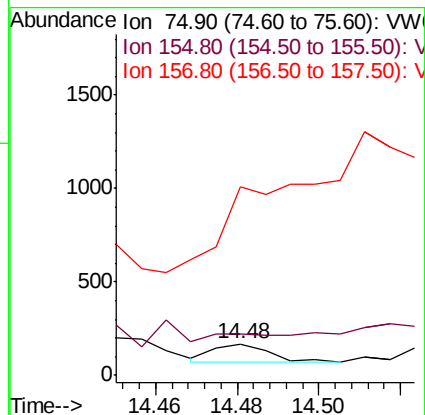
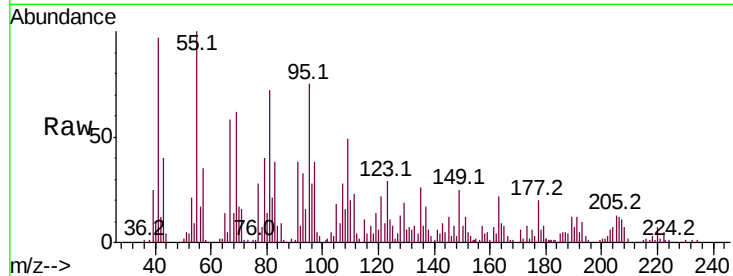
Tot Ion: 75 Resp: 97

Ion Ratio Lower Upper

75 100

155 93.8 37.1 111.3

157 0.0 48.5 145.6#



#93

1,2,4-Trichlorobenzene

Concen: 6.238 ug/l

RT: 15.16 min Scan# 2174

Delta R.T. 0.02 min

Lab File: VW011453.D

Acq: 24 Jul 2019 01:19

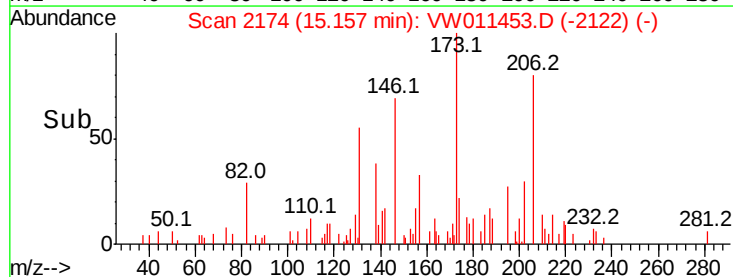
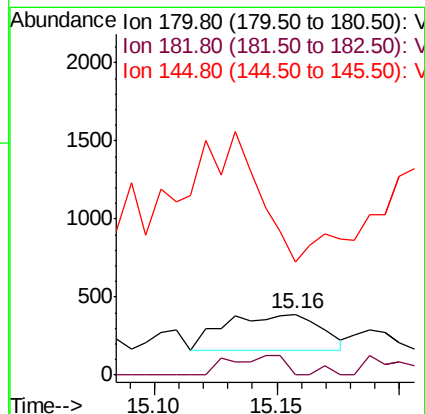
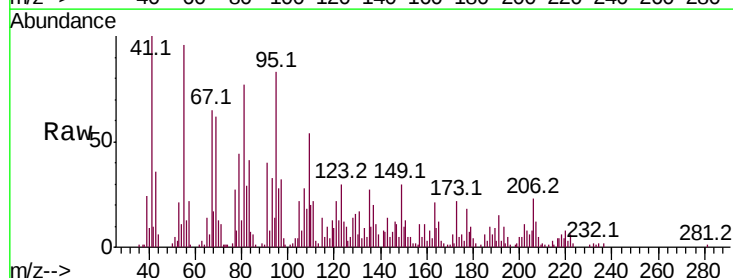
Tgt Ion: 180 Resp: 633

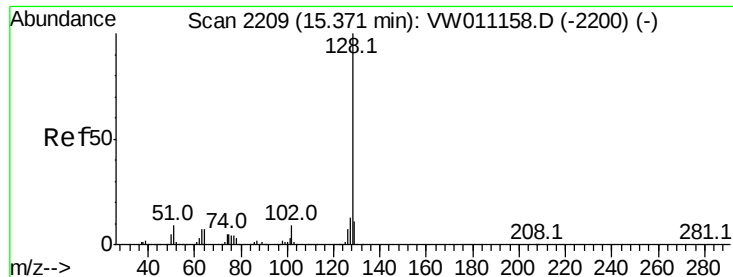
Ion Ratio Lower Upper

180 100

182 30.2 48.3 144.9#

145 0.0 15.5 46.5#

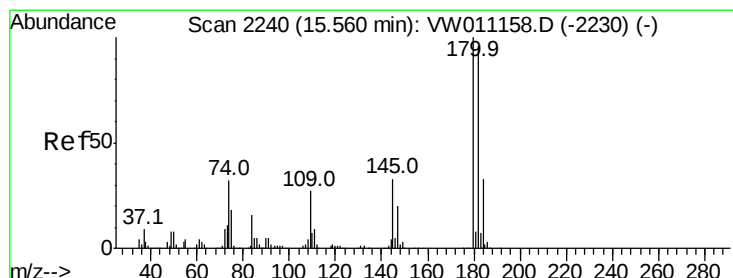
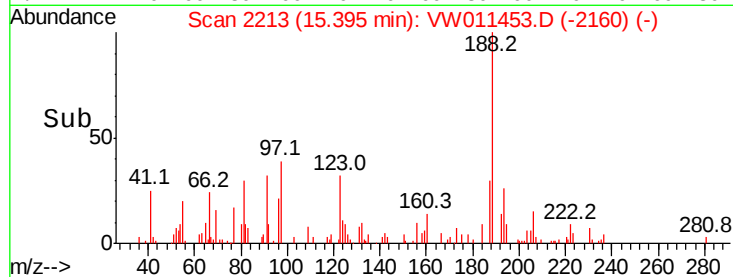
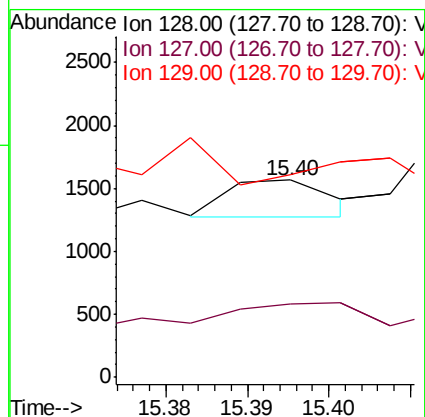
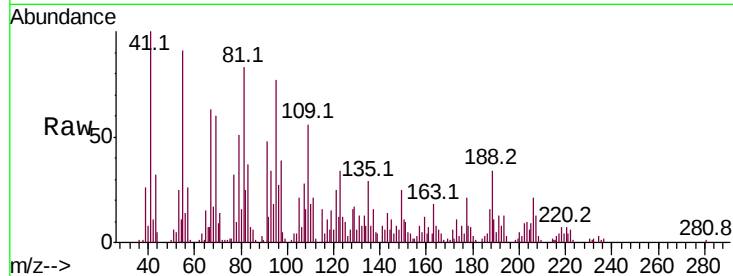




#95
Naphthalene
Concen: 1.342 ug/l
RT: 15.40 min Scan# 2213
Delta R.T. 0.02 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

Instrument :
MSVOA_W
ClientSampleId :
ROLL-OFF-COMP

Tot Ion:128 Resp: 261
Ion Ratio Lower Upper
128 100
127 94.6 10.6 16.0#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 1.988 ug/l
RT: 15.57 min Scan# 2242
Delta R.T. 0.01 min
Lab File: VW011453.D
Acq: 24 Jul 2019 01:19

Tgt Ion:180 Resp: 178
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.8#
145 1180.3 16.5 49.5#

