

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071618\
 Data File : VW003958.D
 Acq On : 16 Jul 2018 18:24
 Operator : VA/AP
 Sample : J3975-01
 Misc : 4.51G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 17 05:50:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	150397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	267469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	182040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	68221	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	110548	65.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	131.52%	
35) Dibromofluoromethane	7.88	113	88130	51.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.70%	
50) Toluene-d8	10.33	98	274209	41.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.36%	
62) 4-Bromofluorobenzene	12.62	95	117704	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	

Target Compounds

					Qvalue
8) Diethyl Ether	3.67	74	1319	1.770	ug/l 79
11) Tert butyl alcohol	5.21	59	4366	37.621	ug/l # 72
13) Acrolein	3.89	56	354	2.969	ug/l # 13
16) Acetone	4.12	43	66731	165.185	ug/l 96
17) Carbon Disulfide	4.36	76	20891	4.579	ug/l 97
20) Methylene Chloride	4.92	84	6280	Below Cal	# 80
25) 2-Butanone	7.18	43	31071	57.154	ug/l 99
26) 2,2-Dichloropropane	7.15	77	1809	1.059	ug/l # 52
29) Tetrahydrofuran	7.53	42	362	1.069	ug/l # 89
31) Cyclohexane	7.95	56	24520	8.792	ug/l # 81
37) Ethyl Acetate	7.18	43	31071	23.409	ug/l # 70
38) Carbon Tetrachloride	7.95	117	14690	5.713	ug/l # 17
39) Methylcyclohexane	9.34	83	79793	24.759	ug/l 92
40) Benzene	8.32	78	225449	29.530	ug/l 99
41) Methacrylonitrile	7.54	41	1165	1.584	ug/l # 46
43) Isopropyl Acetate	8.42	43	5566	2.242	ug/l # 53
48) Methyl methacrylate	9.47	41	3324	2.769	ug/l # 13
51) 4-Methyl-2-Pentanone	10.26	43	10516	7.951	ug/l 88
52) Toluene	10.39	92	742845	157.347	ug/l 100
53) t-1,3-Dichloropropene	10.40	75	9173	3.519	ug/l # 1
55) 1,1,2-Trichloroethane	10.76	97	21912	15.408	ug/l # 24
56) Ethyl methacrylate	10.66	69	9516	7.349	ug/l # 6
59) 2-Hexanone	10.94	43	115794	124.216	ug/l # 31
65) Chlorobenzene	11.66	112	19281	4.981	ug/l 96
67) Ethyl Benzene	11.74	91	270763	39.819	ug/l 99
68) m/p-Xylenes	11.84	106	440735	169.583	ug/l 99
69) o-Xylene	12.17	106	356598	147.915	ug/l 97
70) Styrene	12.17	104	19215	4.772	ug/l # 1
73) Isopropylbenzene	12.47	105	137741	28.573	ug/l 98
74) N-amyl acetate	12.26	43	666171	530.359	ug/l # 67
75) 1,1,2,2-Tetrachloroethane	12.70	83	44166	47.374	ug/l # 1
76) 1,2,3-Trichloropropane	12.81	75	1587	2.343	ug/l # 100
77) Bromobenzene	12.71	156	1358	1.177	ug/l # 1
78) n-propylbenzene	12.81	91	193160	32.661	ug/l 99

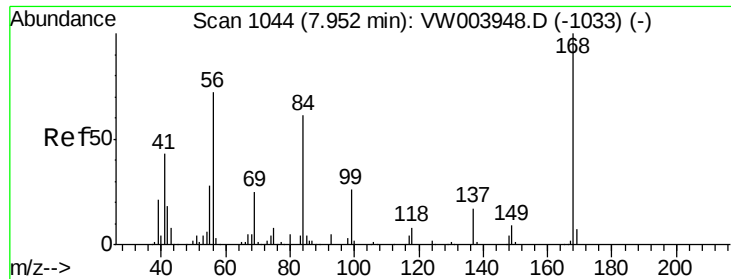
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071618\
 Data File : VW003958.D
 Acq On : 16 Jul 2018 18:24
 Operator : VA/AP
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 2-Chlorotoluene	12.95	91	46722	14.007	ug/l	79
80) 1,3,5-Trimethylbenzene	12.95	105	386150	95.186	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.48	75	2362	7.714	ug/l #	1
82) 4-Chlorotoluene	12.95	91	45071	12.591	ug/l	81
83) tert-Butylbenzene	13.21	119	13804	4.053	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.26	105	894463	214.304	ug/l	98
85) sec-Butylbenzene	13.39	105	166708	32.988	ug/l #	68
86) p-Isopropyltoluene	13.51	119	266103	60.031	ug/l	98
87) 1,3-Dichlorobenzene	13.51	146	20596	8.940	ug/l #	1
88) 1,4-Dichlorobenzene	13.59	146	36956	15.995	ug/l #	1
89) n-Butylbenzene	13.83	91	151303	34.722	ug/l #	79
90) Hexachloroethane	14.11	117	46920	57.421	ug/l #	9
91) 1,2-Dichlorobenzene	13.88	146	37739	18.386	ug/l #	74
92) 1,2-Dibromo-3-Chloropropan	14.47	75	2734	16.492	ug/l #	3
93) 1,2,4-Trichlorobenzene	15.15	180	47092	32.666	ug/l #	36
95) Naphthalene	15.38	128	680916	255.901	ug/l	97
96) 1,2,3-Trichlorobenzene	15.58	180	6336	4.964	ug/l #	63

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

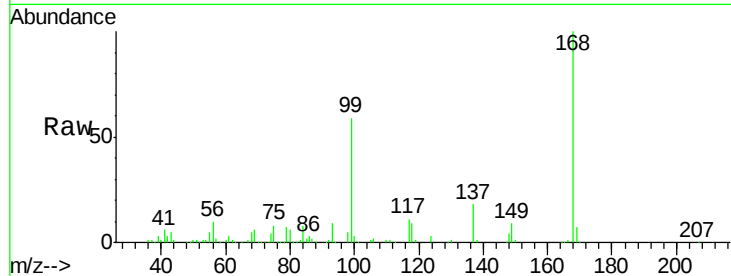
ClientSampled :

Tot Ion:168 Resp: 150397

Ion Ratio Lower Upper

168 100

99 58.8 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

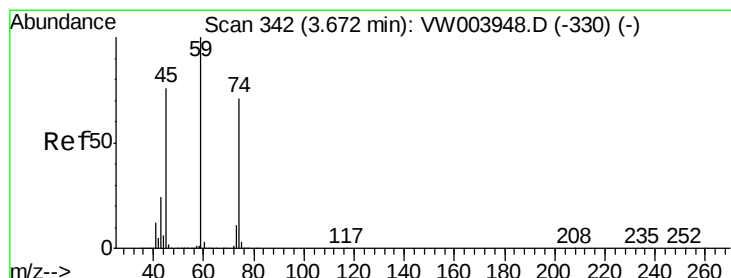
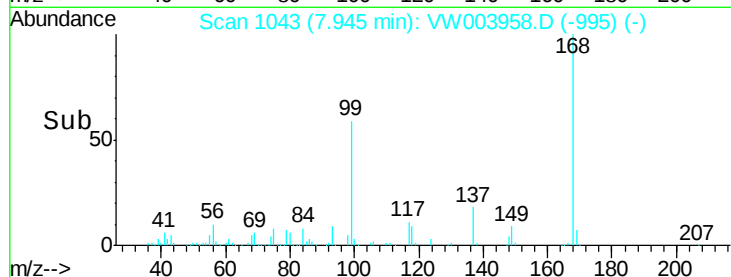
40000

20000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.770 ug/l

RT: 3.67 min Scan# 341

Delta R.T. -0.01 min

Lab File: VW003958.D

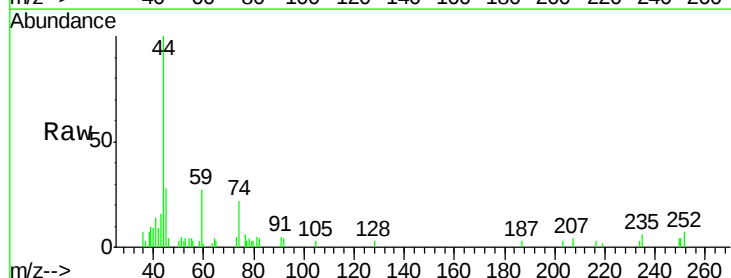
Acq: 16 Jul 2018 18:24

Tgt Ion: 74 Resp: 1319

Ion Ratio Lower Upper

74 100

45 85.2 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

800

600

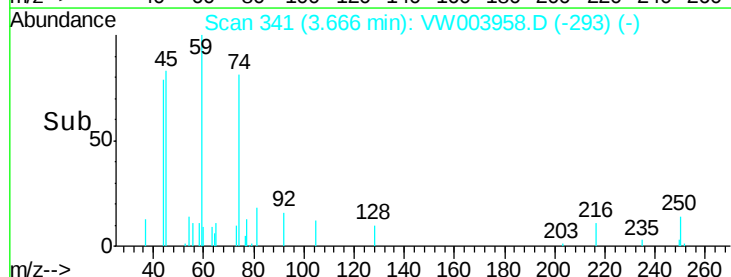
400

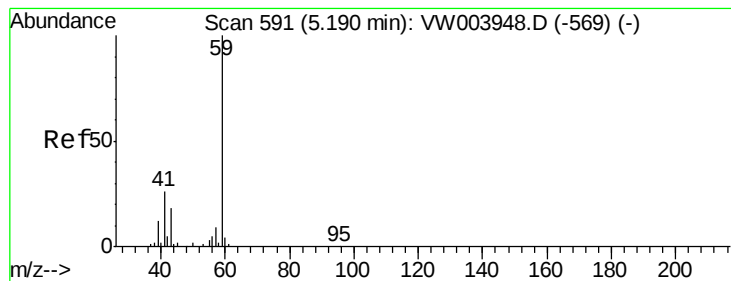
200

0

3.60 3.65 3.70 3.75 3.80

Time-->





#11

Tert butyl alcohol

Concen: 37.621 ug/l

RT: 5.21 min Scan# 594

Delta R.T. 0.02 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

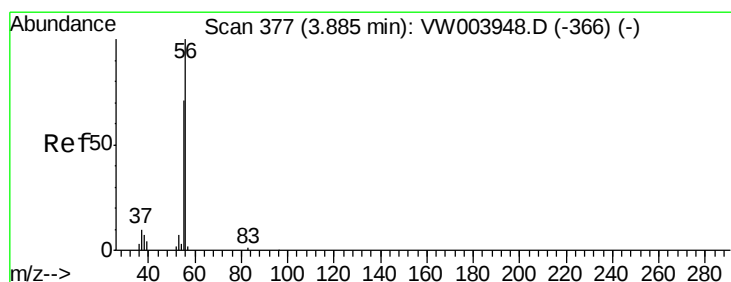
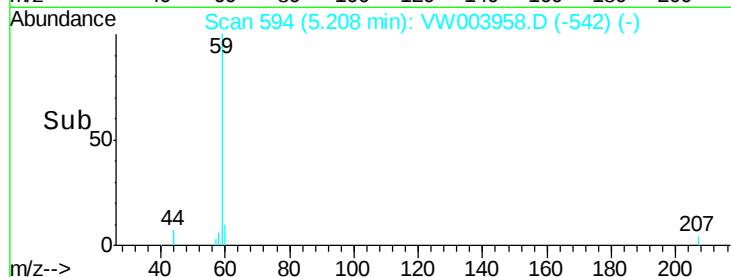
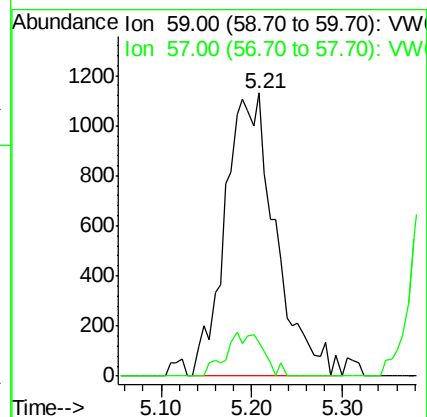
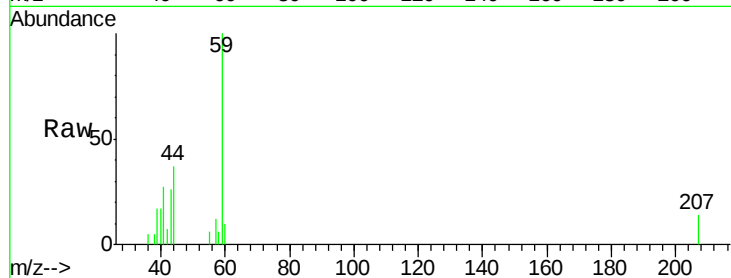
ClientSampled :

Tot Ion: 59 Resp: 4366

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 2.969 ug/l

RT: 3.89 min Scan# 378

Delta R.T. 0.01 min

Lab File: VW003958.D

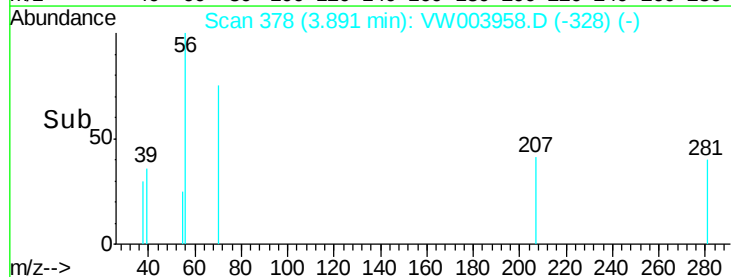
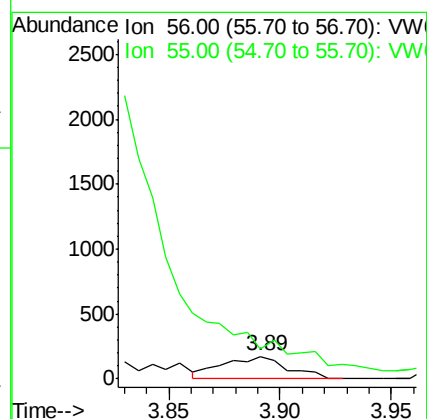
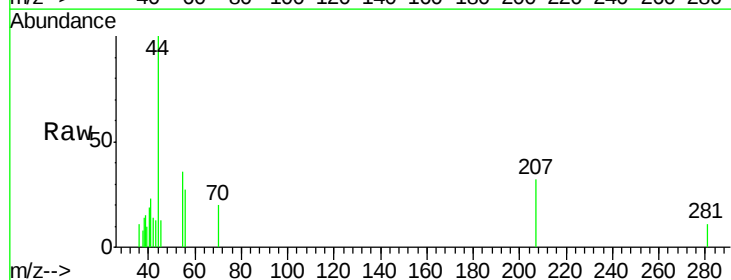
Acq: 16 Jul 2018 18:24

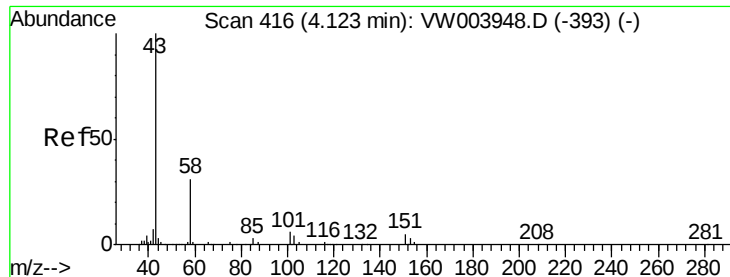
Tgt Ion: 56 Resp: 354

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#





#16

Acetone

Concen: 165.185 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

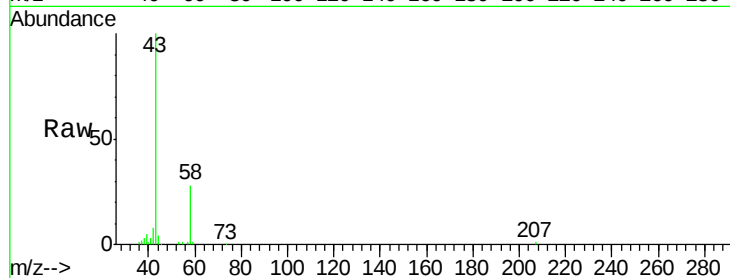
ClientSampled :

Tot Ion: 43 Resp: 66731

Ion Ratio Lower Upper

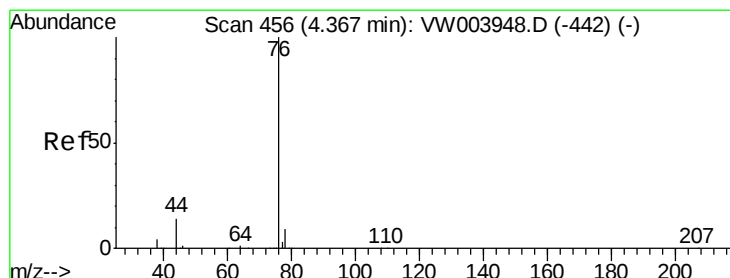
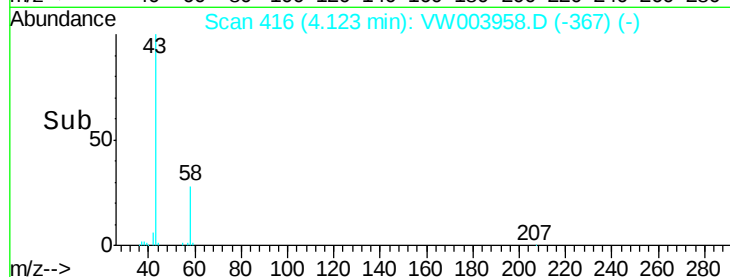
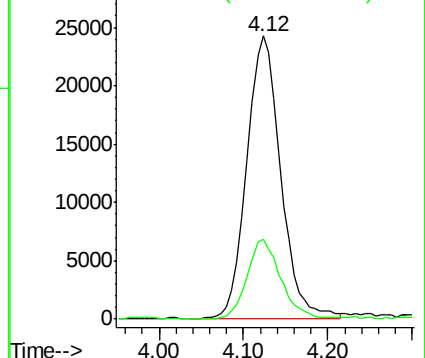
43 100

58 28.2 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 4.579 ug/l

RT: 4.36 min Scan# 455

Delta R.T. -0.01 min

Lab File: VW003958.D

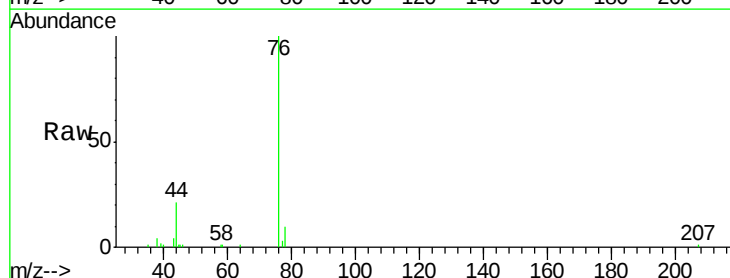
Acq: 16 Jul 2018 18:24

Tgt Ion: 76 Resp: 20891

Ion Ratio Lower Upper

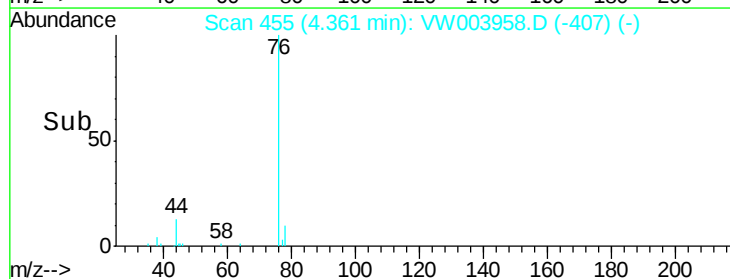
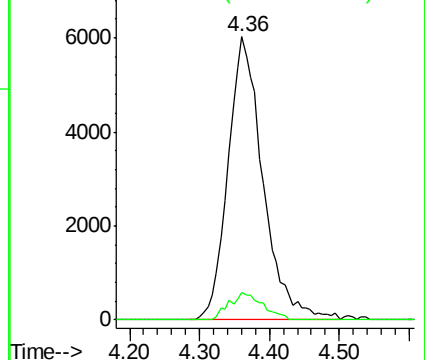
76 100

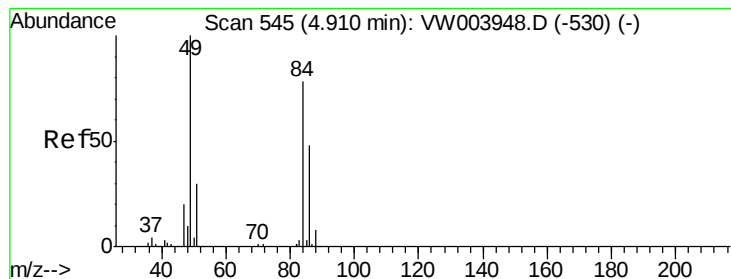
78 9.8 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW





#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 6280

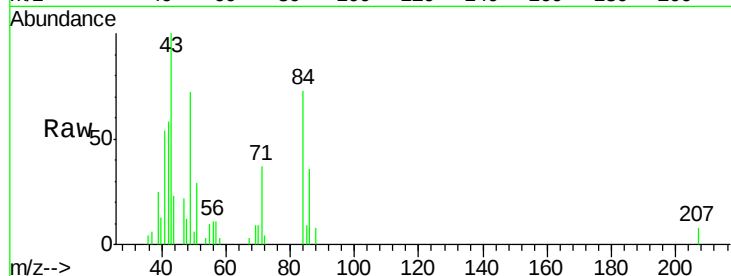
Ion Ratio Lower Upper

84 100

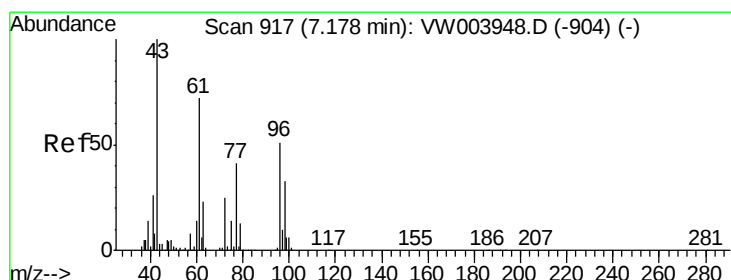
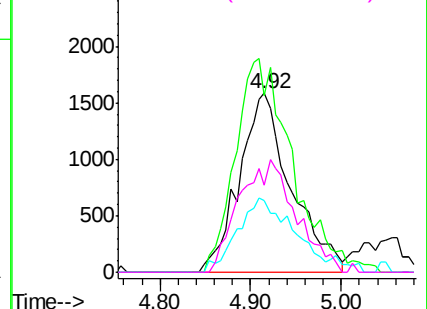
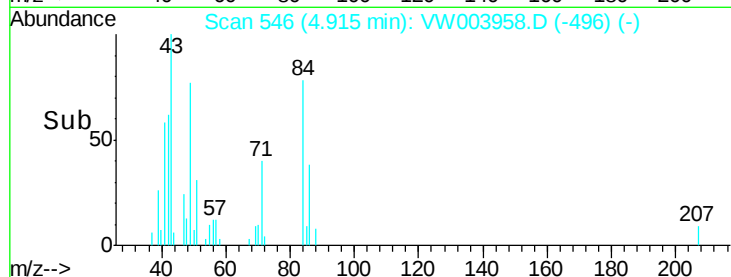
49 98.6 102.9 154.3#

51 40.0 30.9 46.3

86 48.5 49.9 74.9#



Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 57.154 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.00 min

Lab File: VW003958.D

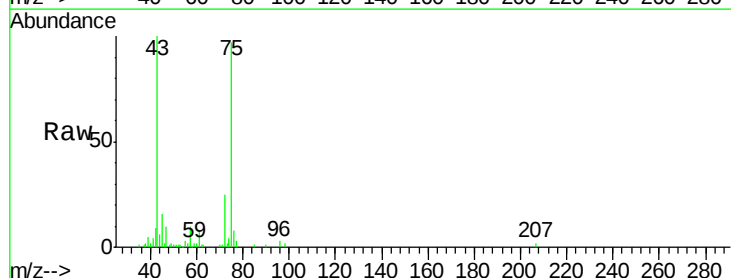
Acq: 16 Jul 2018 18:24

Tgt Ion: 43 Resp: 31071

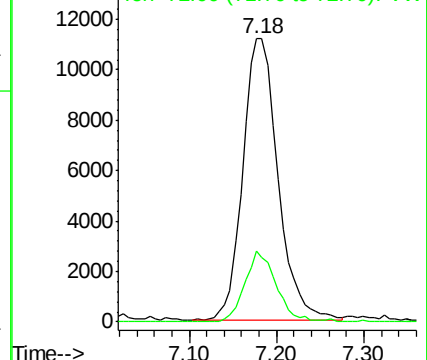
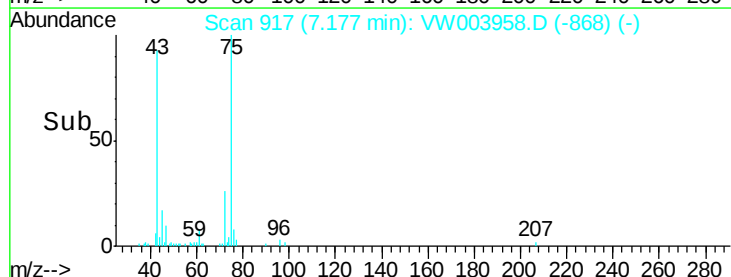
Ion Ratio Lower Upper

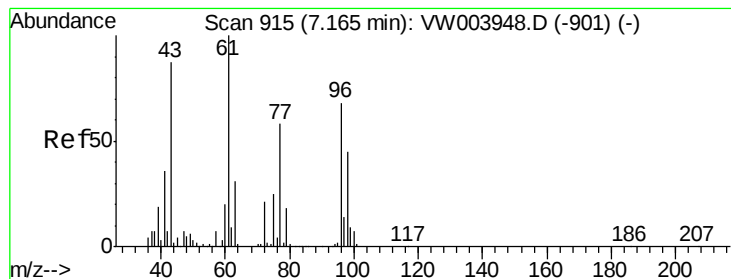
43 100

72 25.2 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.059 ug/l

RT: 7.15 min Scan# 913

Delta R.T. -0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

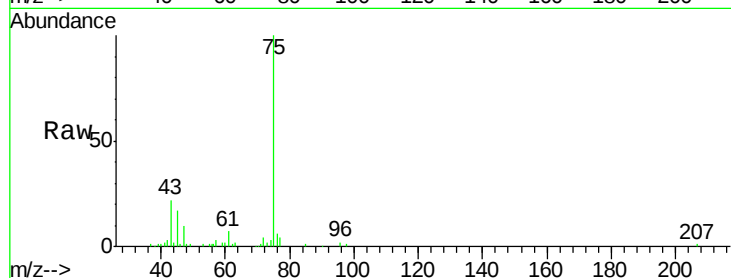
ClientSampleId :

Tot Ion: 77 Resp: 1809

Ion Ratio Lower Upper

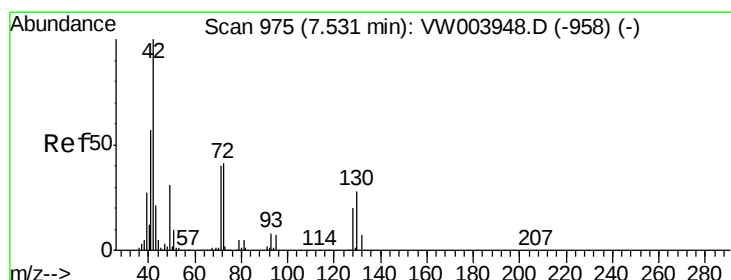
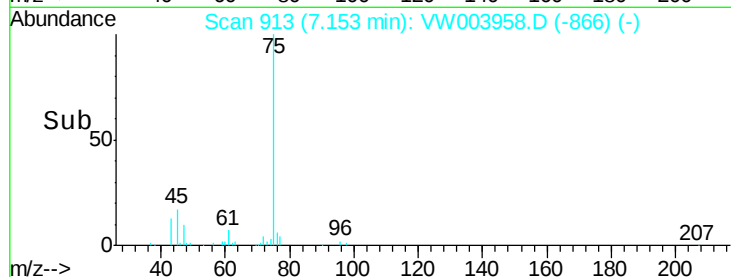
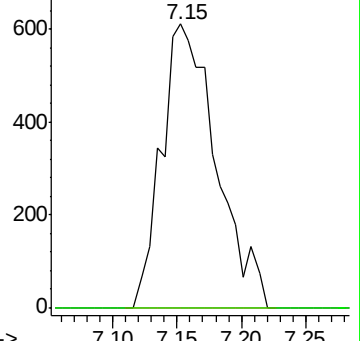
77 100

97 0.0 11.8 35.3#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



#29

Tetrahydrofuran

Concen: 1.069 ug/l

RT: 7.53 min Scan# 975

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

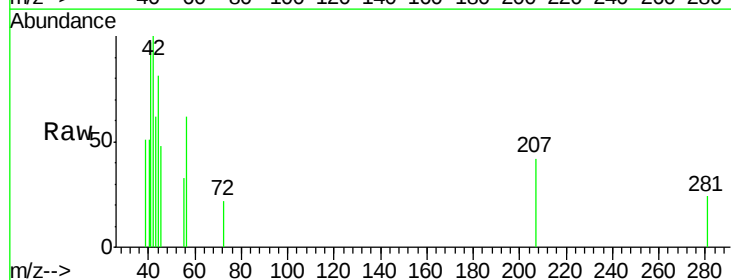
Tgt Ion: 42 Resp: 362

Ion Ratio Lower Upper

42 100

72 52.2 32.6 48.8#

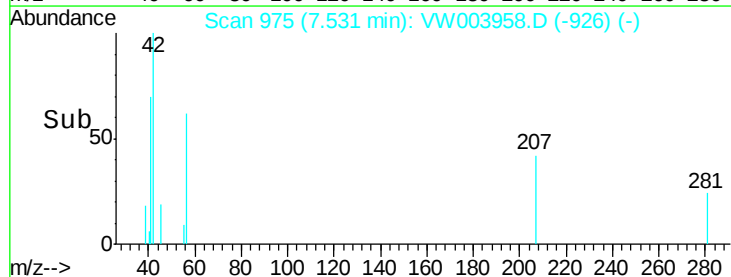
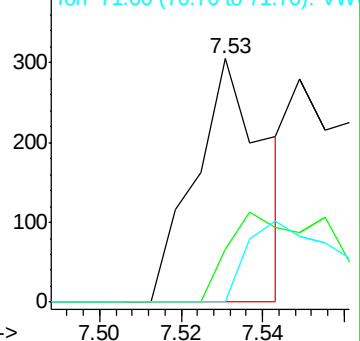
71 39.8 30.5 45.7

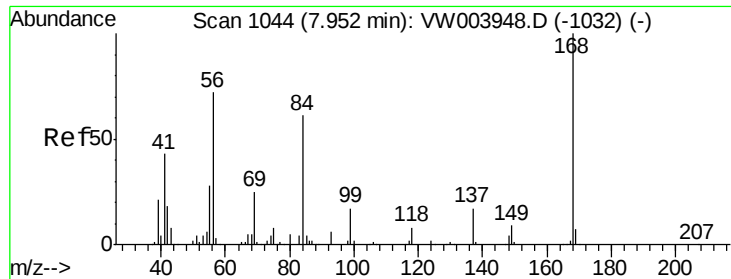


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

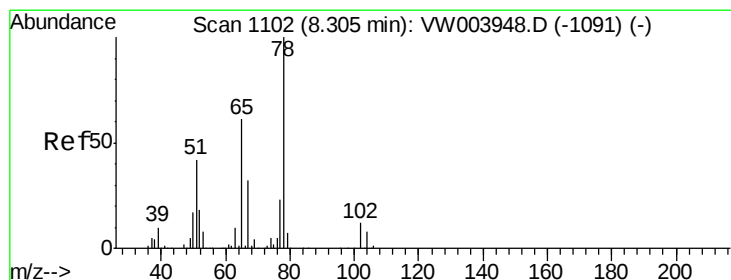
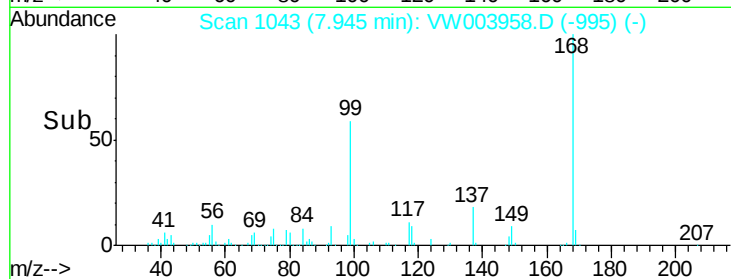
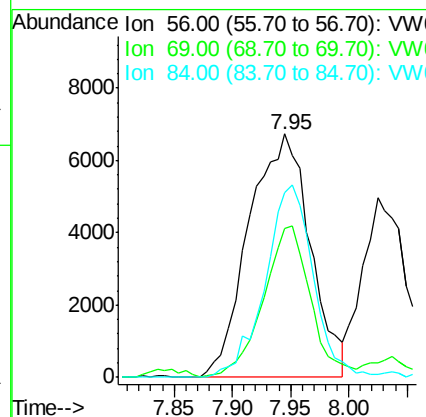
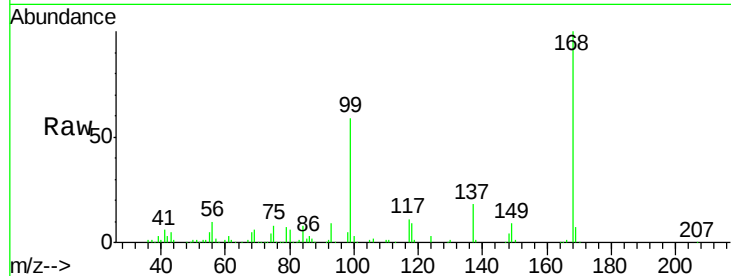




#31
Cyclohexane
Concen: 8.792 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

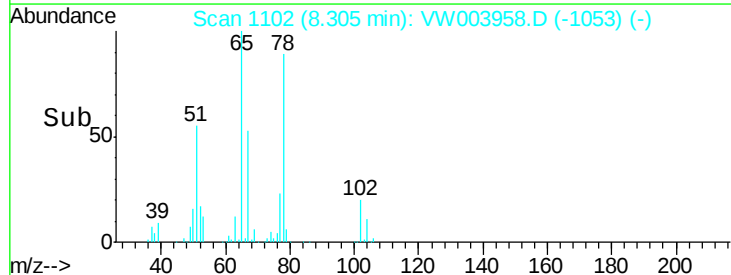
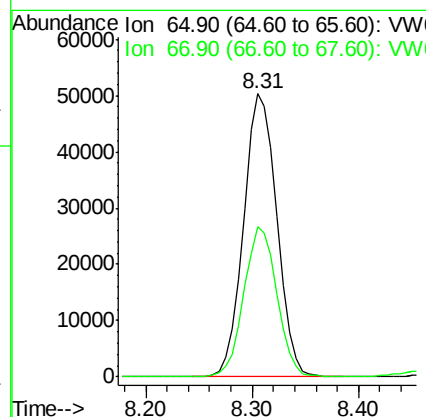
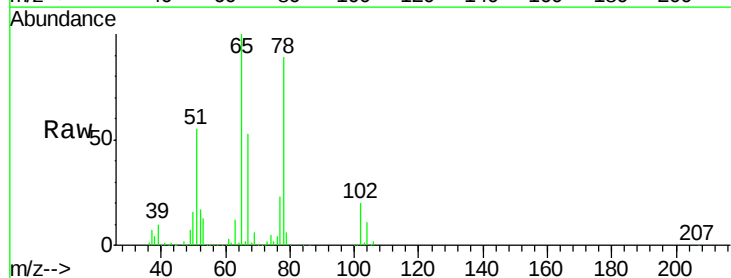
Instrument :
MSVOA_W
ClientSampled :

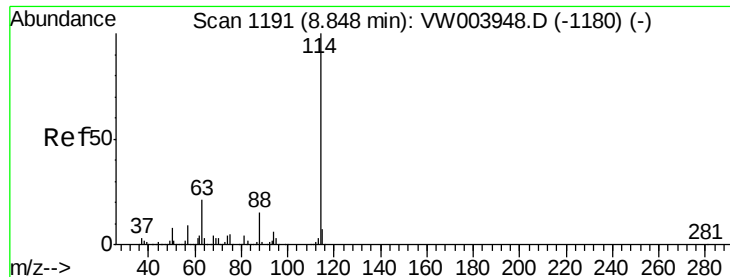
Tot Ion: 56 Resp: 24520
Ion Ratio Lower Upper
56 100
69 59.9 27.8 41.8#
84 76.0 67.2 100.8



#33
1,2-Dichloroethane-d4
Concen: 65.758 ug/l
RT: 8.31 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 65 Resp: 110548
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.0

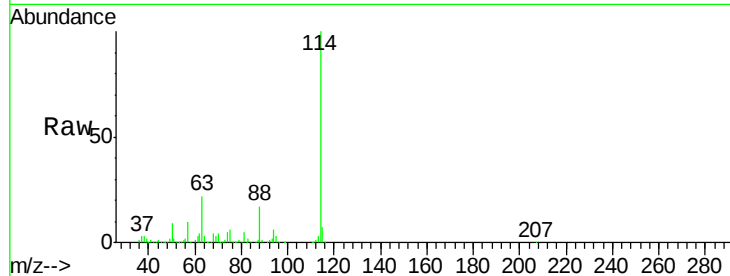




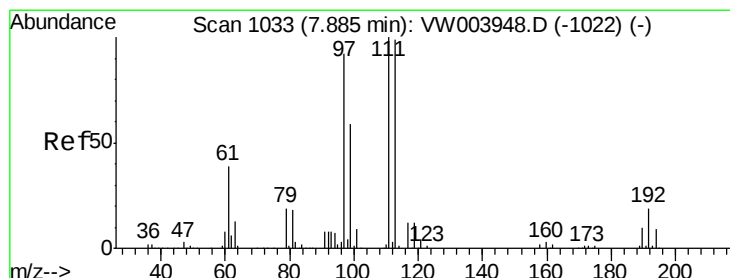
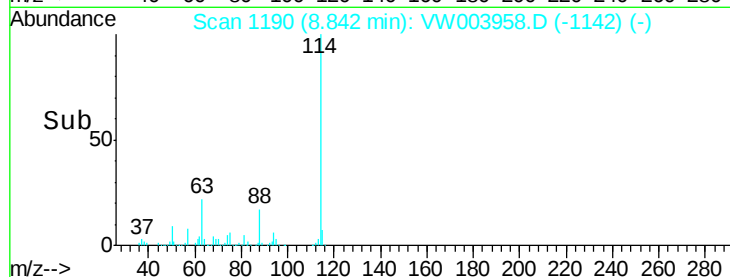
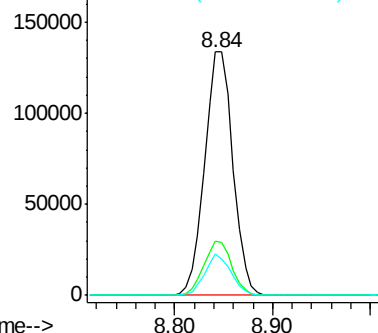
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1190
Delta R.T. -0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:114 Resp: 267469
Ion Ratio Lower Upper
114 100
63 22.4 0.0 42.8
88 16.8 0.0 30.4

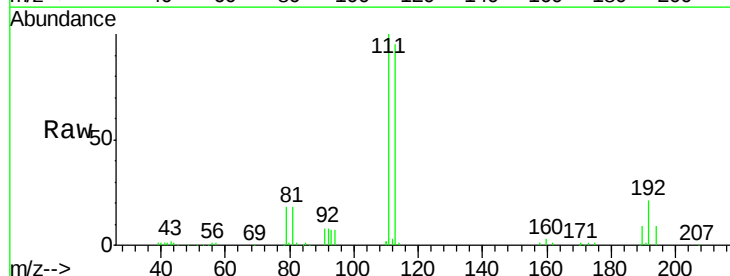


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

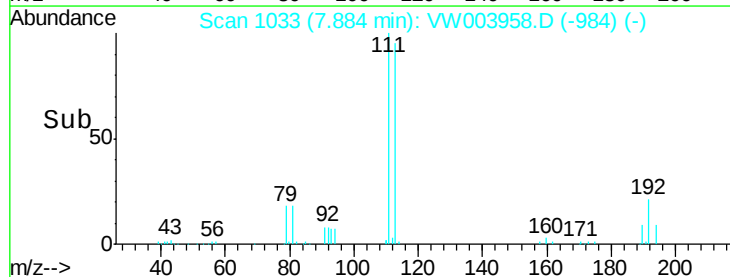
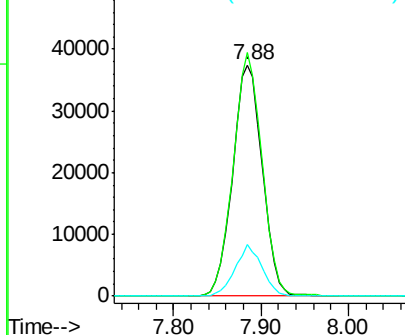


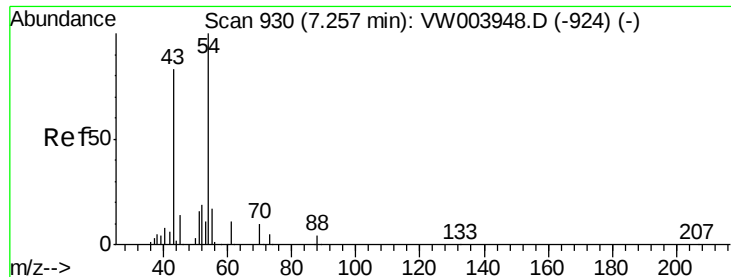
#35
Dibromofluoromethane
Concen: 51.353 ug/l
RT: 7.88 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion:113 Resp: 88130
Ion Ratio Lower Upper
113 100
111 102.6 81.3 121.9
192 20.1 15.8 23.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#37

Ethyl Acetate

Concen: 23.409 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.08 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :
MSVOA_W
ClientSampled :

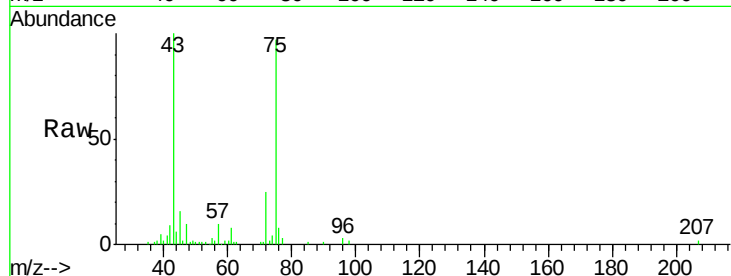
Tot Ion: 43 Resp: 31071

Ion Ratio Lower Upper

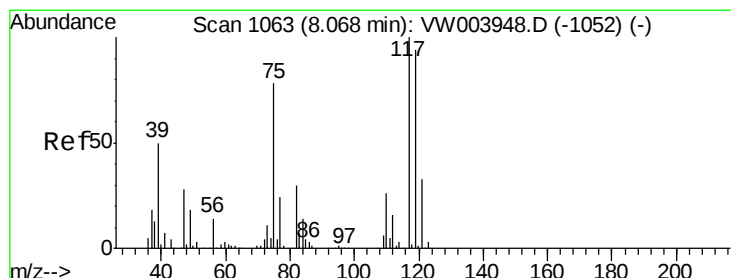
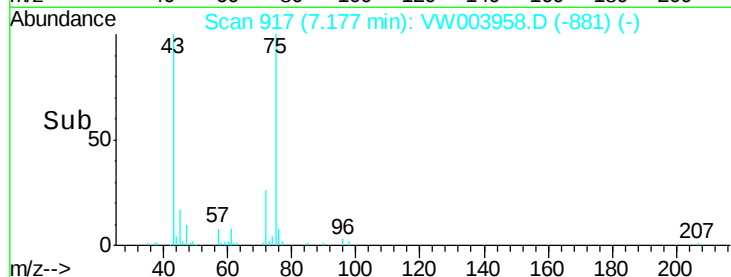
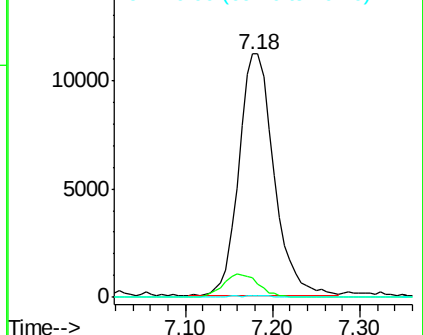
43 100

61 0.0 10.7 16.1#

70 0.5 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.713 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

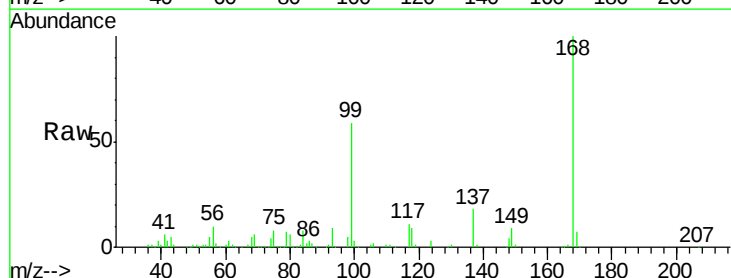
Tgt Ion: 117 Resp: 14690

Ion Ratio Lower Upper

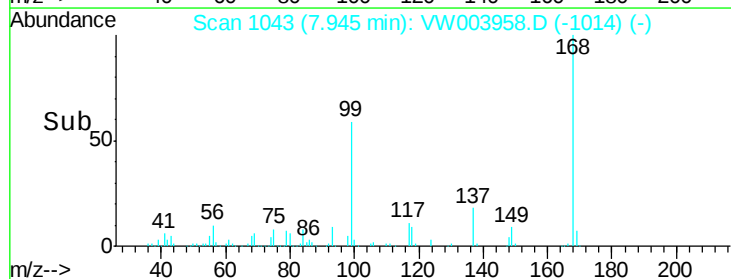
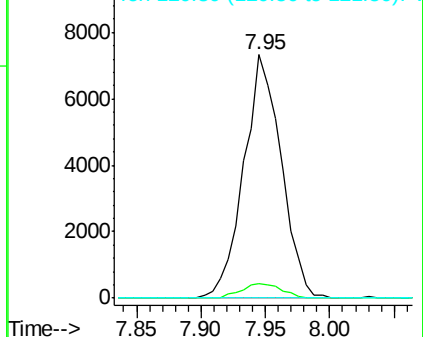
117 100

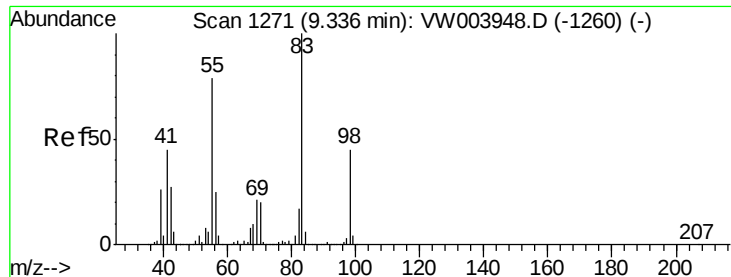
119 6.0 75.3 112.9#

121 0.0 26.0 39.0#



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

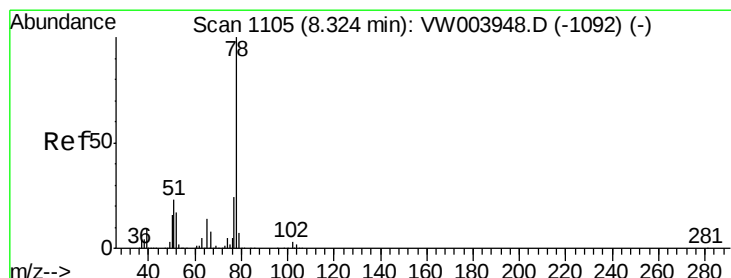
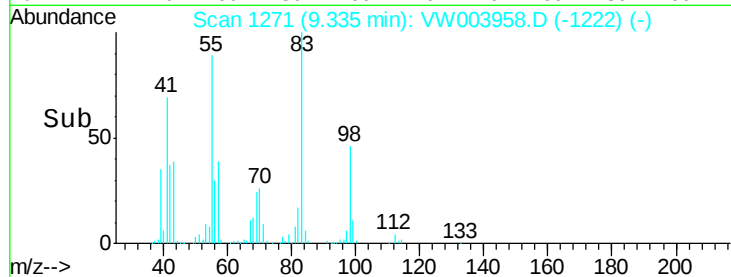
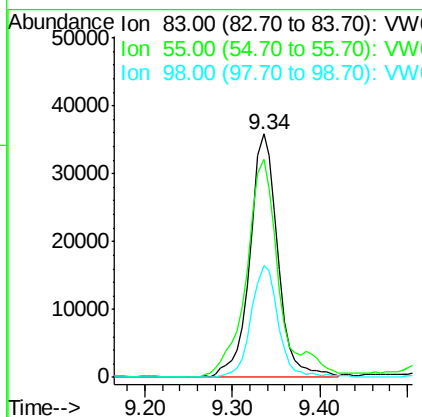
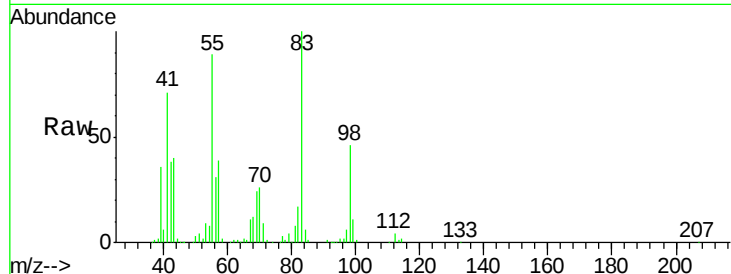




#39
Methvlcvclohexane
Concen: 24.759 ug/l
RT: 9.34 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

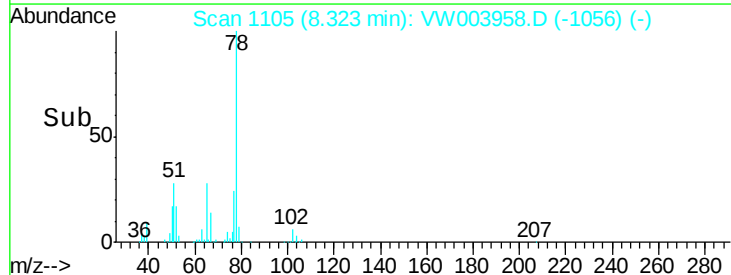
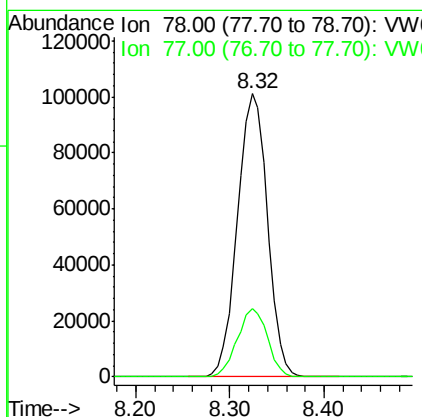
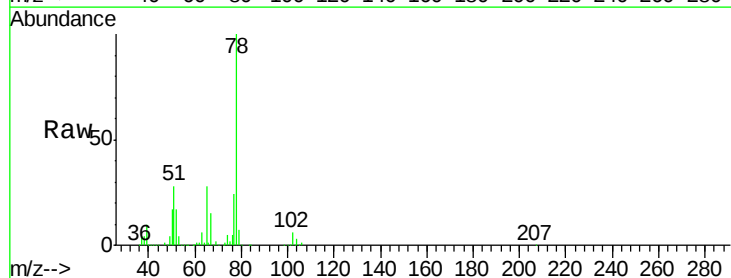
Instrument :
MSVOA_W
ClientSampled :

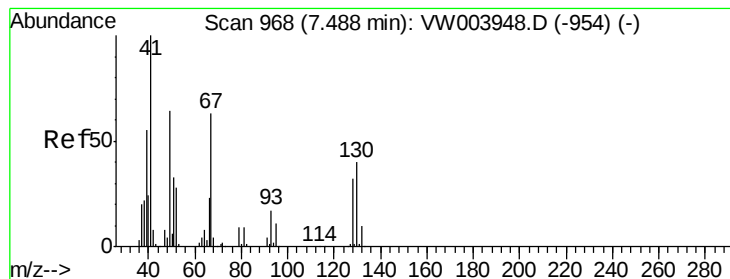
Tot Ion: 83 Resp: 79793
Ion Ratio Lower Upper
83 100
55 89.3 62.8 94.2
98 46.1 36.2 54.4



#40
Benzene
Concen: 29.530 ug/l
RT: 8.32 min Scan# 1105
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 78 Resp: 225449
Ion Ratio Lower Upper
78 100
77 24.1 19.5 29.3





#41

Methacrylonitrile

Concen: 1.584 ug/l

RT: 7.54 min Scan# 976

Delta R.T. 0.05 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 41 Resp: 1165

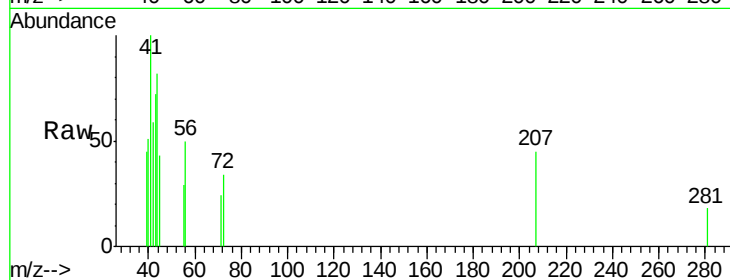
Ion Ratio Lower Upper

41 100

39 54.2 50.0 75.0

67 0.0 60.8 91.2#

52 0.0 26.2 39.4#

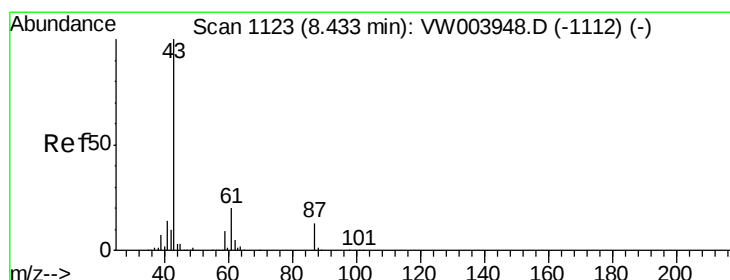
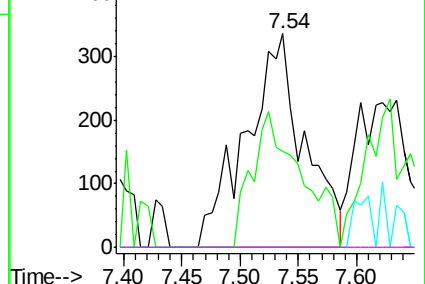
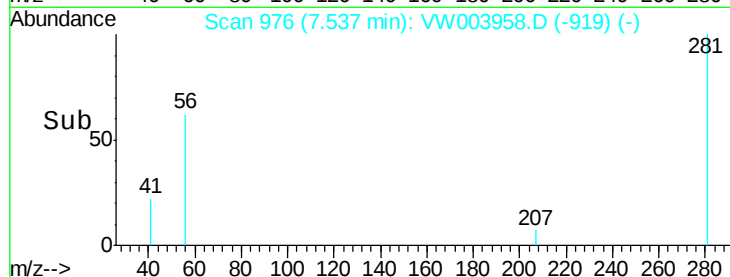


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#43

Isopropyl Acetate

Concen: 2.242 ug/l

RT: 8.42 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

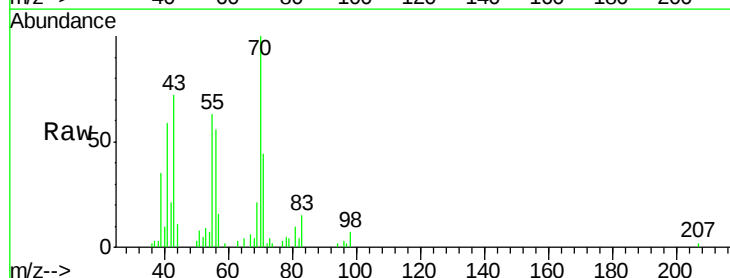
Tgt Ion: 43 Resp: 5566

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

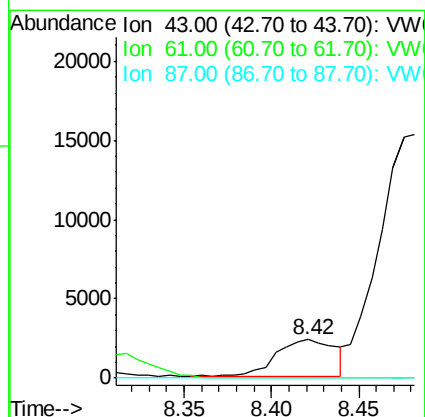
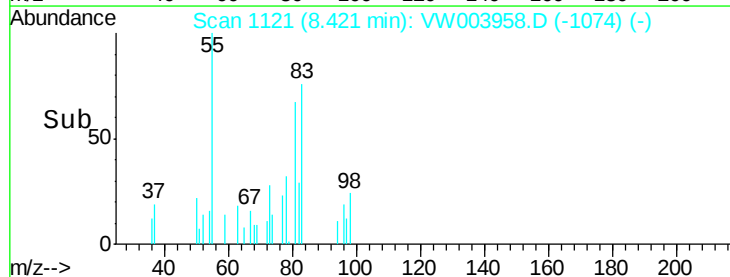
87 0.0 9.9 14.9#

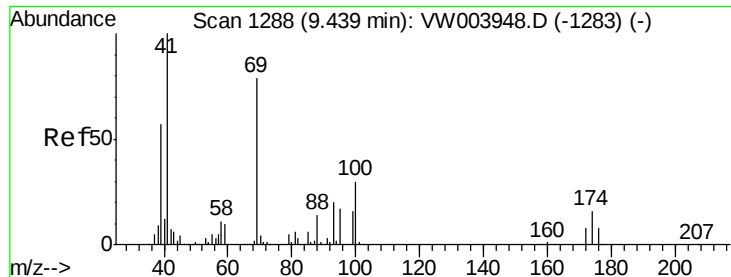


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW

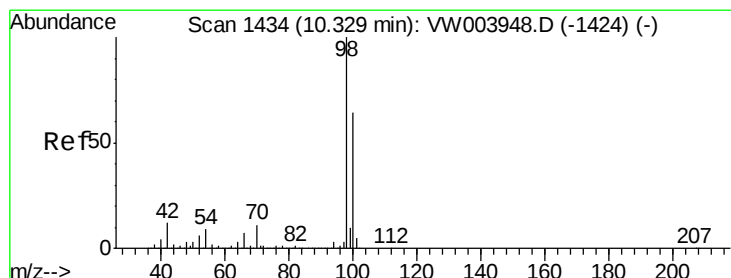
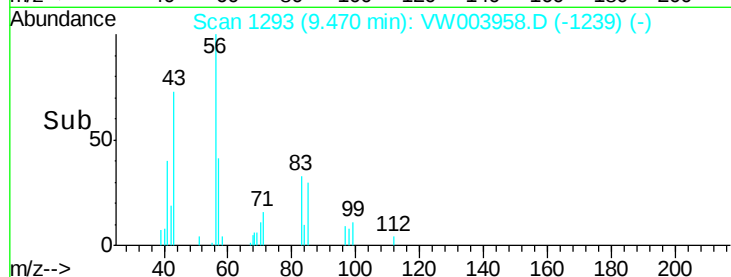
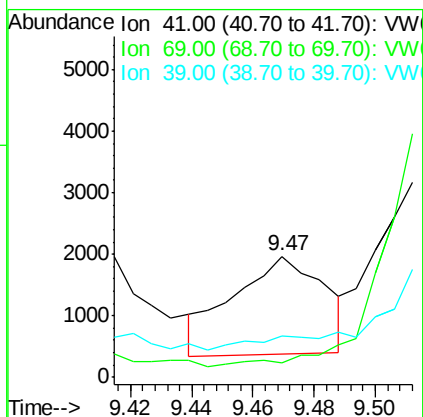
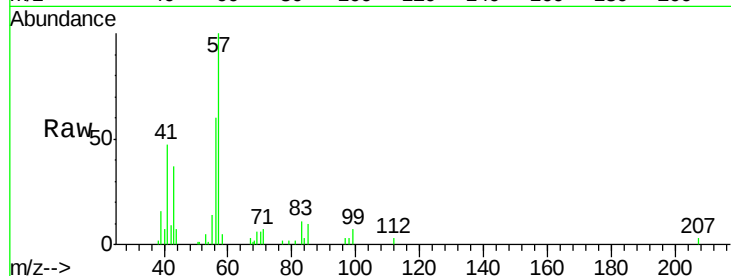




#48
Methvl methacrylate
Concen: 2.769 ug/l
RT: 9.47 min Scan# 1293
Delta R.T. 0.03 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

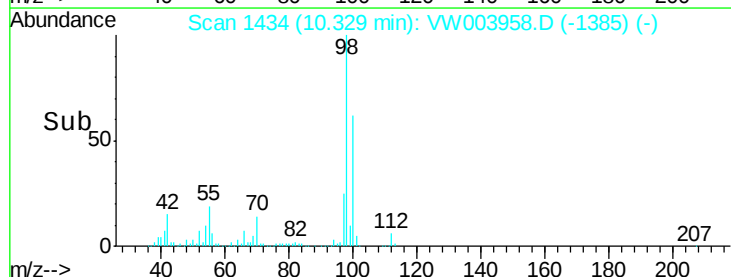
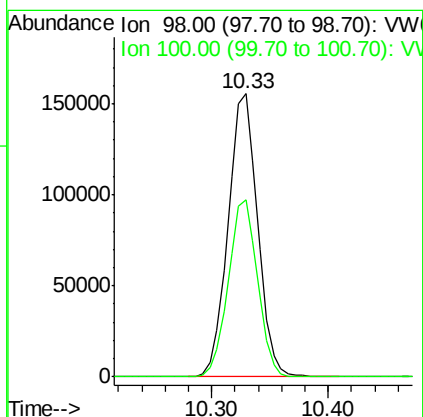
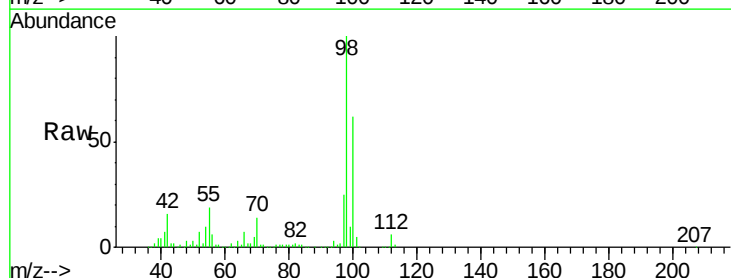
Instrument :
MSVOA_W
ClientSampled :

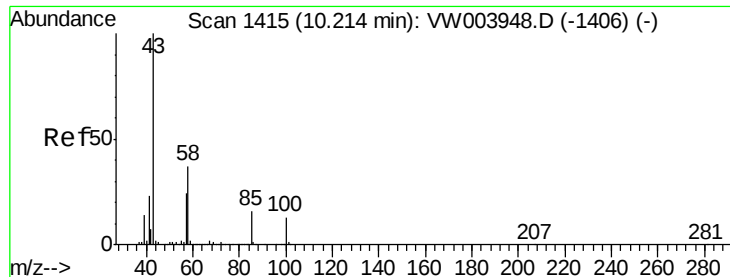
Tot Ion: 41 Resp: 3324
Ion Ratio Lower Upper
41 100
69 0.0 67.0 100.6#
39 0.0 48.8 73.2#



#50
Toluene-d8
Concen: 41.178 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 98 Resp: 274209
Ion Ratio Lower Upper
98 100
100 62.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 7.951 ug/l

RT: 10.26 min Scan# 1422

Delta R.T. 0.04 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

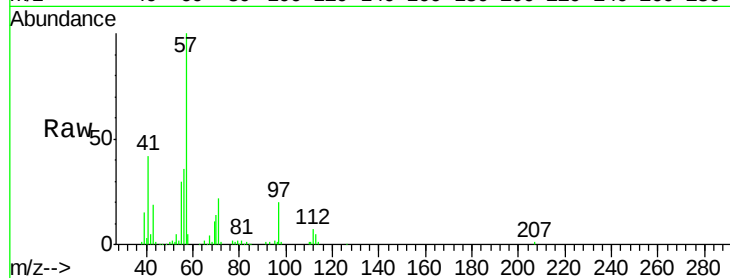
ClientSampled :

Tot Ion: 43 Resp: 10516

Ion Ratio Lower Upper

43 100

58 30.1 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.26

6000

5000

4000

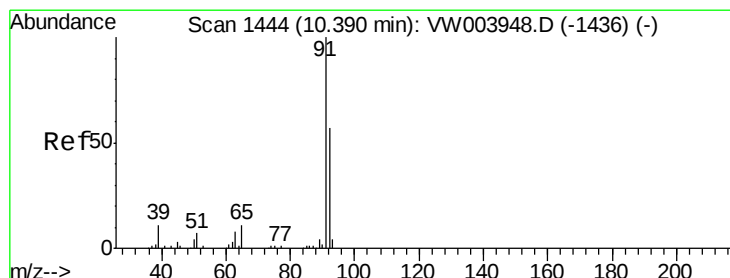
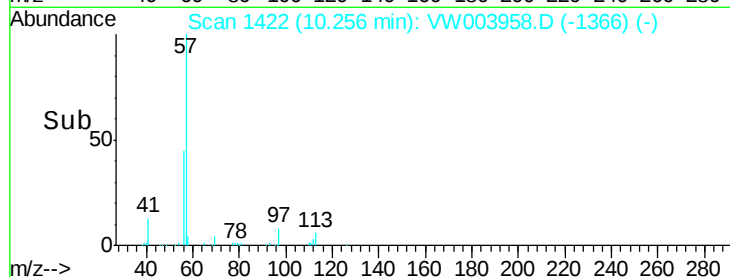
3000

2000

1000

0

Time--> 10.15 10.20 10.25 10.30



#52

Toluene

Concen: 157.347 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW003958.D

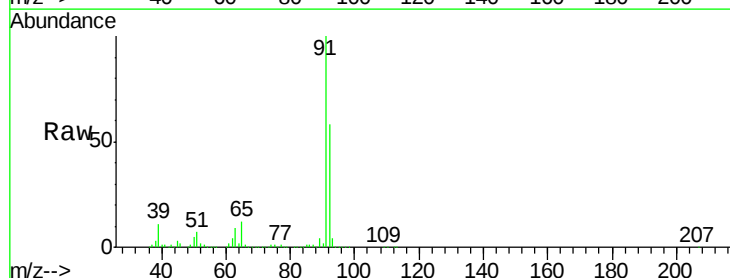
Acq: 16 Jul 2018 18:24

Tgt Ion: 92 Resp: 742845

Ion Ratio Lower Upper

92 100

91 174.5 139.6 209.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

10.39

800000

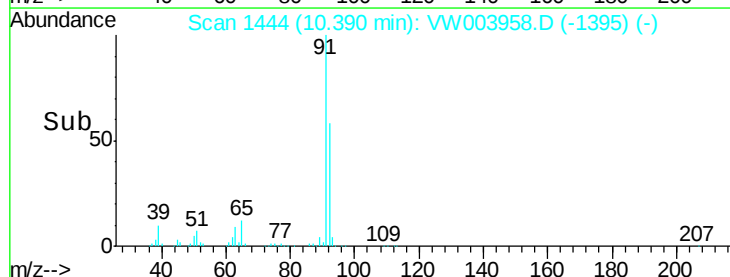
600000

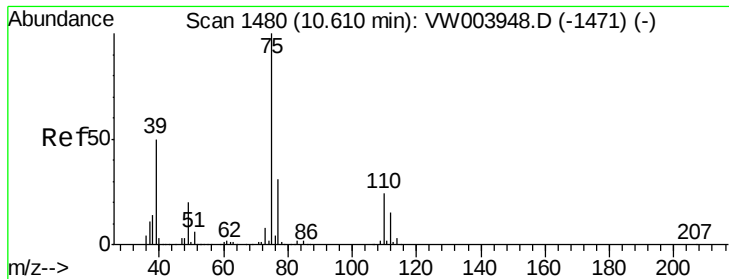
400000

200000

0

Time--> 10.30 10.40 10.50





#53

t-1,3-Dichloropropene

Concen: 3.519 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. -0.21 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

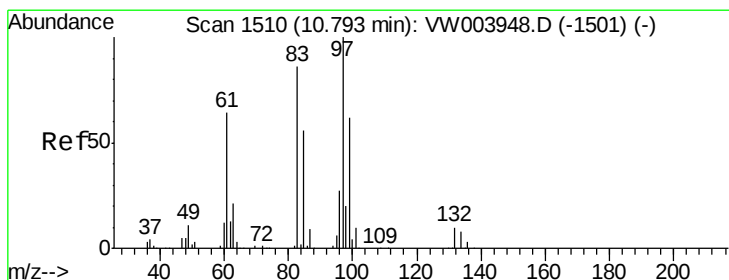
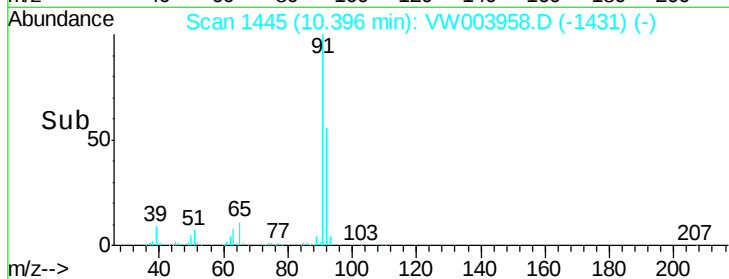
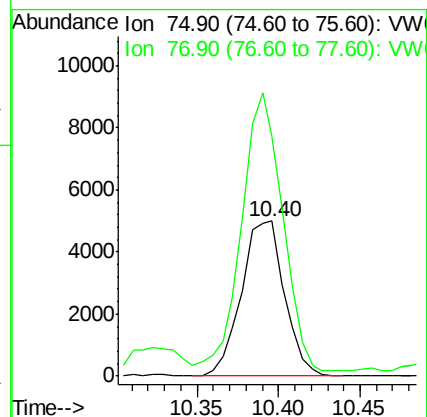
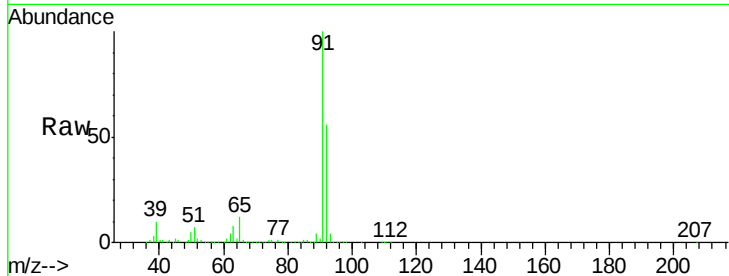
ClientSampled :

Tot Ion: 75 Resp: 9173

Ion Ratio Lower Upper

75 100

77 151.2 25.2 37.8#



#55

1,1,2-Trichloroethane

Concen: 15.408 ug/l

RT: 10.76 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Tgt Ion: 97 Resp: 21912

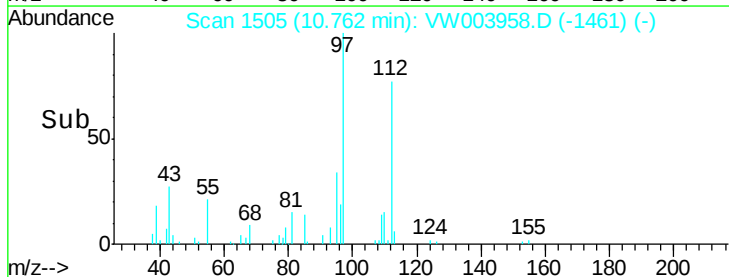
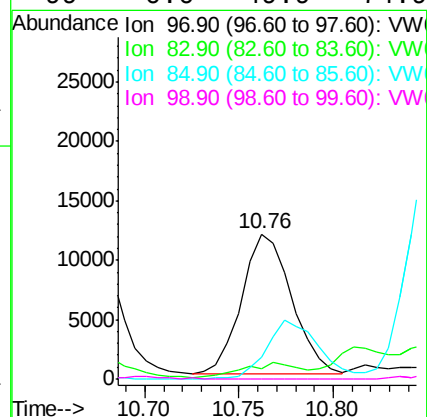
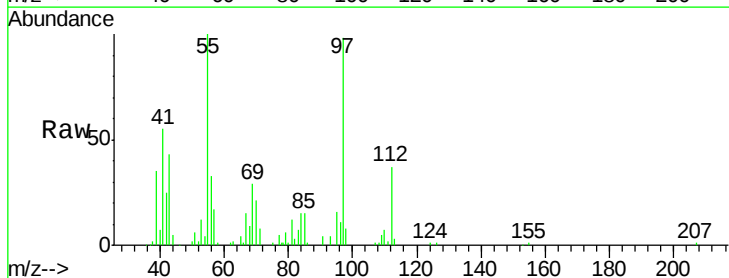
Ion Ratio Lower Upper

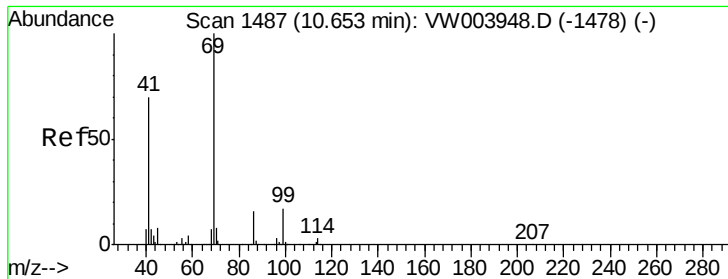
97 100

83 6.4 69.0 103.4#

85 15.7 45.0 67.6#

99 0.0 49.9 74.9#





#56

Ethyl methacrylate

Concen: 7.349 ug/l

RT: 10.66 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

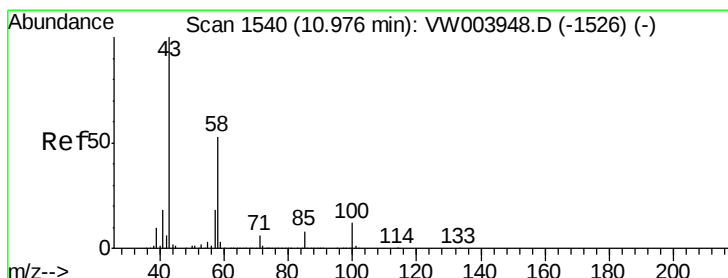
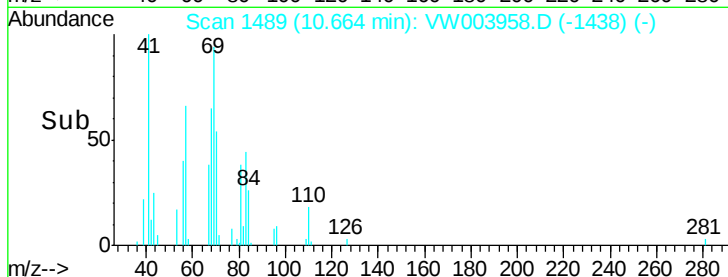
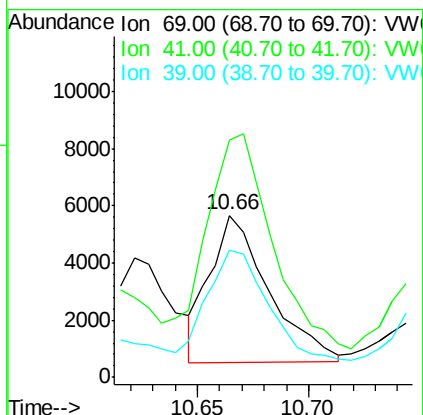
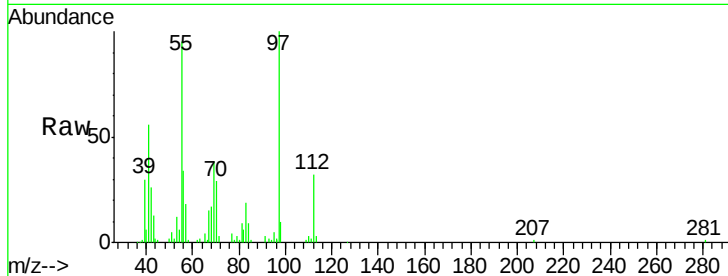
Tot Ion: 69 Resp: 9516

Ion Ratio Lower Upper

69 100

41 161.2 56.5 84.7#

39 75.9 30.2 45.4#



#59

2-Hexanone

Concen: 124.216 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.04 min

Lab File: VW003958.D

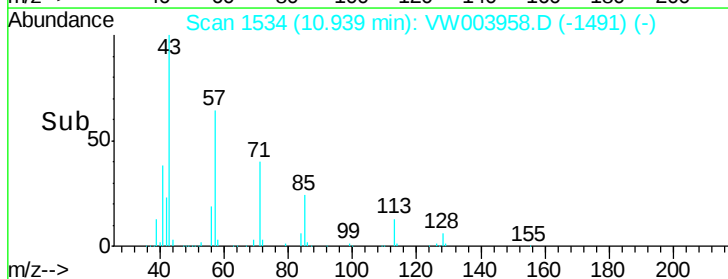
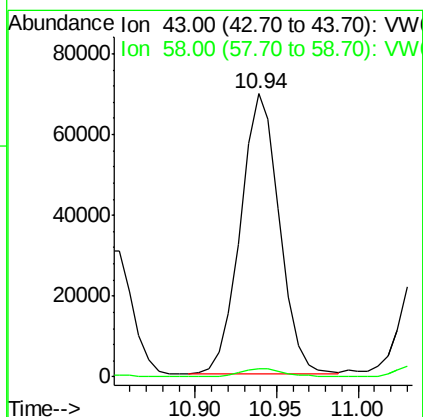
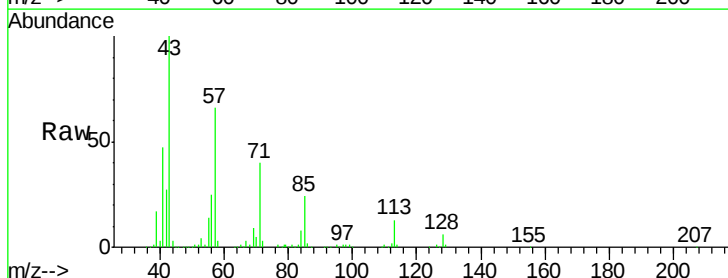
Acq: 16 Jul 2018 18:24

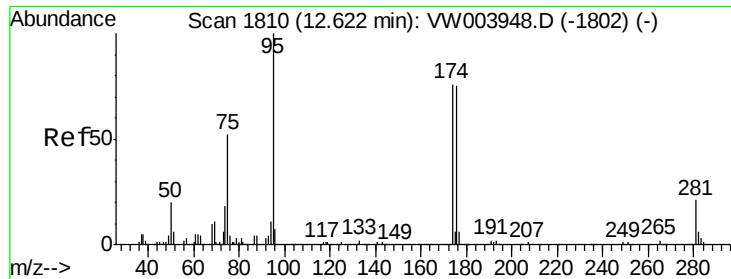
Tgt Ion: 43 Resp: 115794

Ion Ratio Lower Upper

43 100

58 3.6 26.0 78.0#

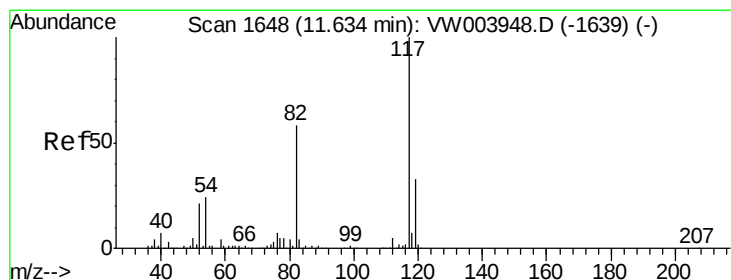
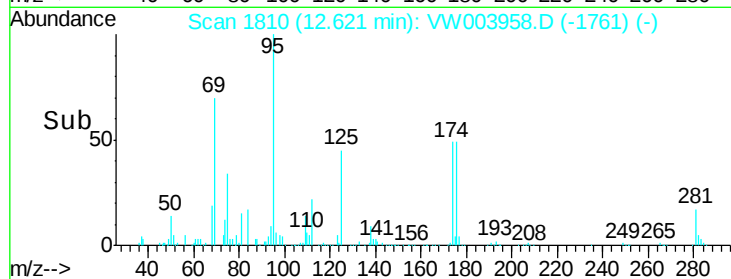
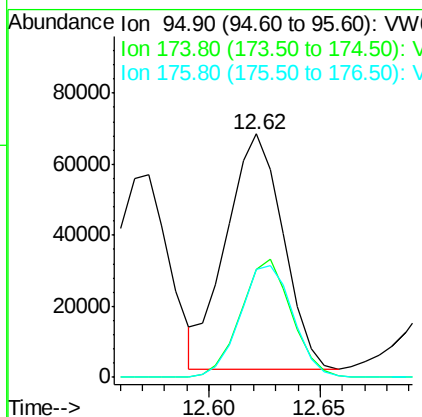
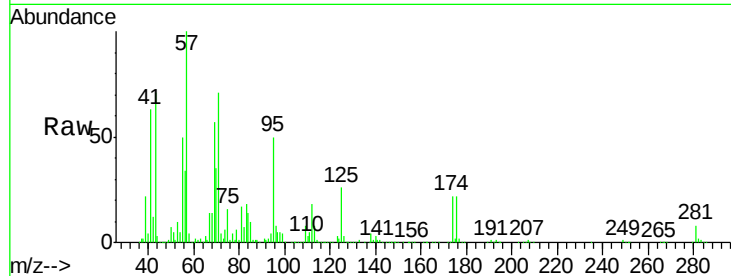




#62
4-Bromofluorobenzene
Concen: 49.017 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

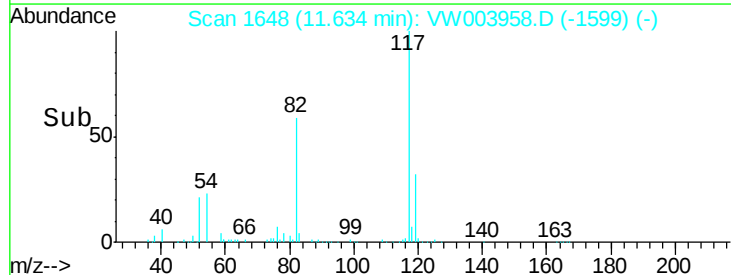
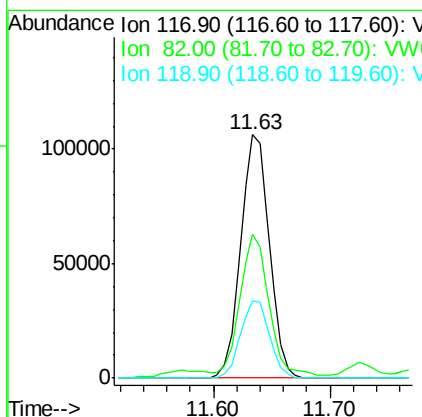
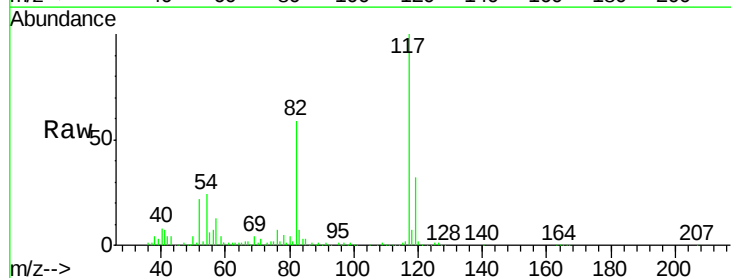
Instrument :
MSVOA_W
ClientSampled :

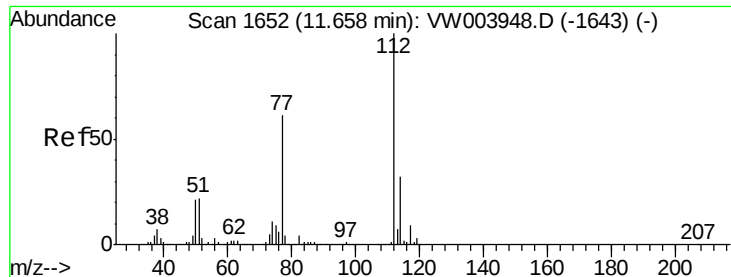
Tot Ion: 95 Resp: 117704
Ion Ratio Lower Upper
95 100
174 45.0 0.0 160.2
176 44.2 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 117 Resp: 182040
Ion Ratio Lower Upper
117 100
82 57.4 46.5 69.7
119 32.0 26.2 39.2





#65

Chlorobenzene

Concen: 4.981 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

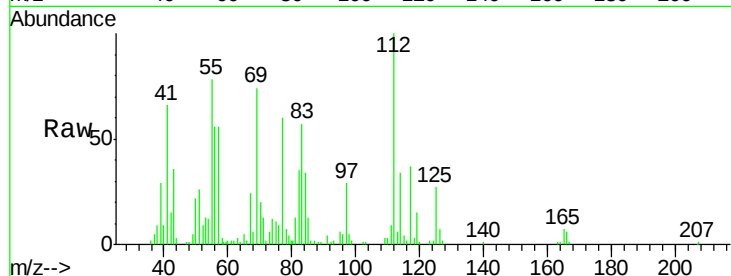
ClientSampleId :

Tot Ion:112 Resp: 19281

Ion Ratio Lower Upper

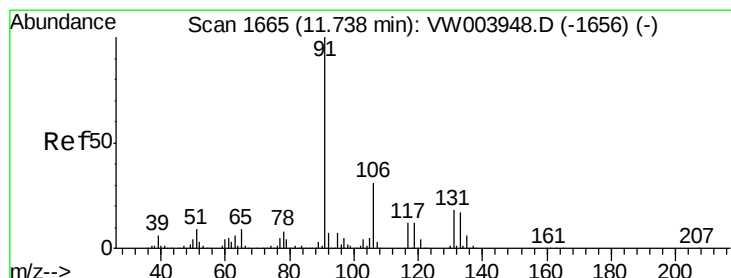
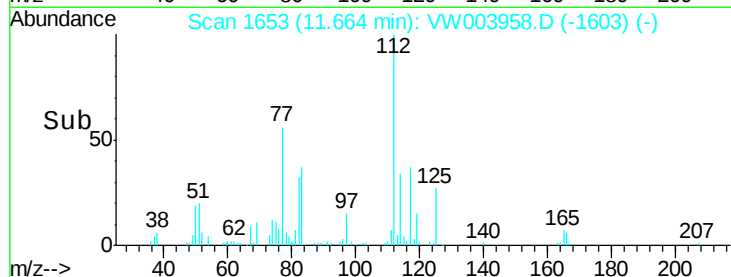
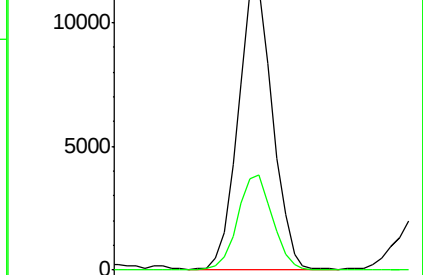
112 100

114 33.8 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 39.819 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW003958.D

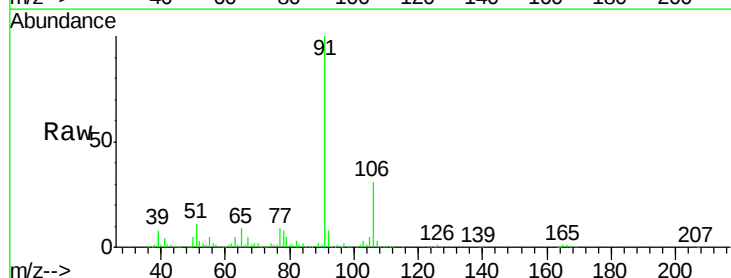
Acq: 16 Jul 2018 18:24

Tgt Ion: 91 Resp: 270763

Ion Ratio Lower Upper

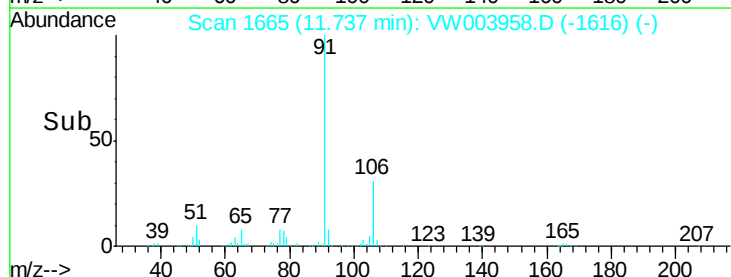
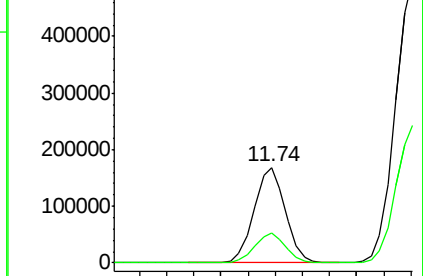
91 100

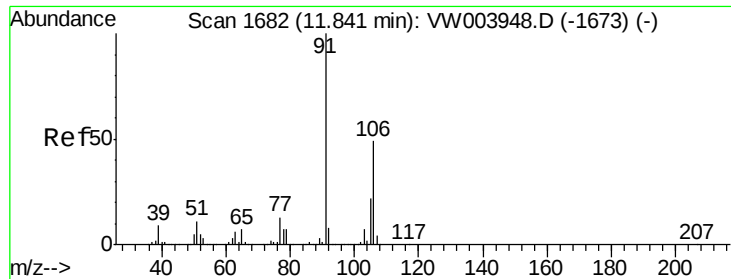
106 30.9 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

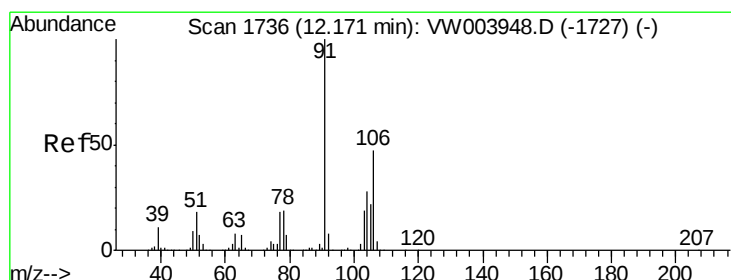
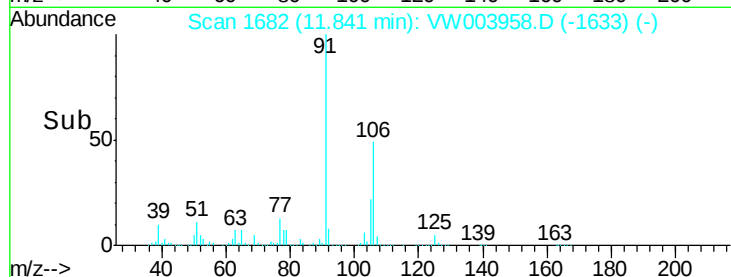
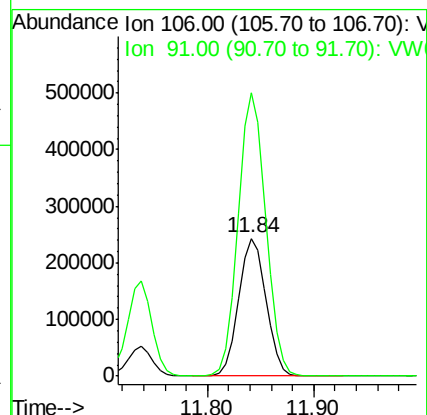
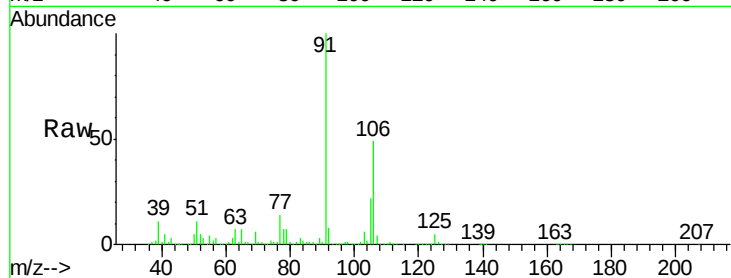




#68
m/p-Xylenes
Concen: 169.583 ug/l
RT: 11.84 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

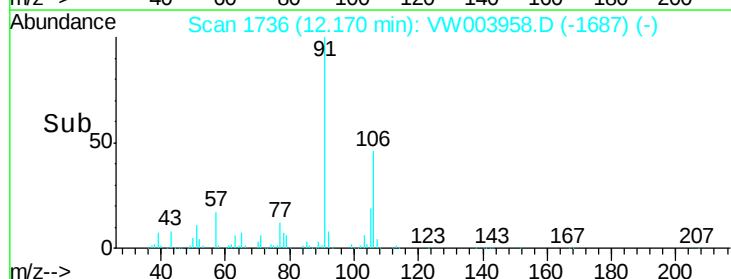
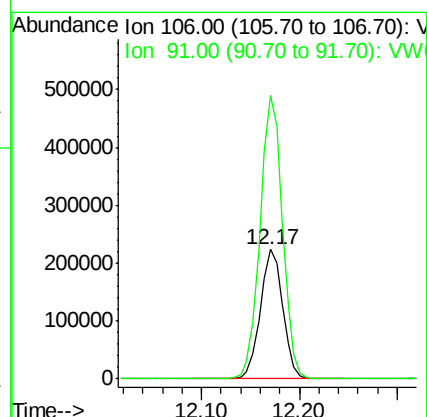
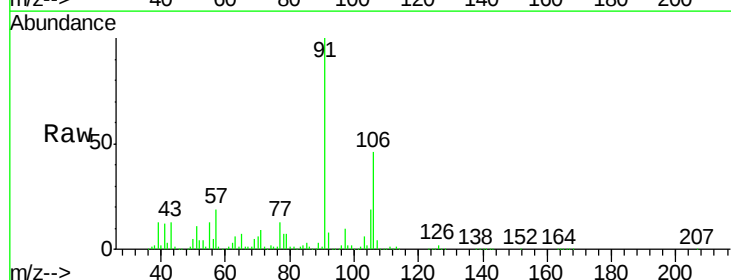
Instrument :
MSVOA_W
ClientSampleId :

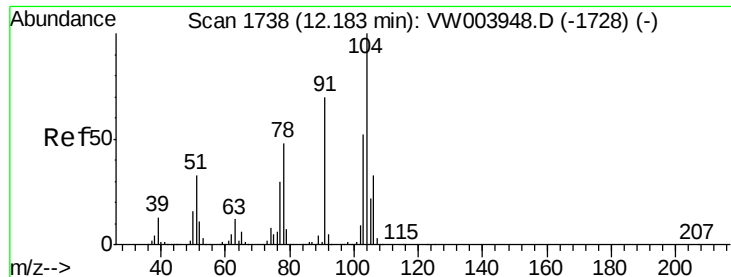
Tot Ion:106 Resp: 440735
Ion Ratio Lower Upper
106 100
91 206.8 164.2 246.2



#69
o-Xylene
Concen: 147.915 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion:106 Resp: 356598
Ion Ratio Lower Upper
106 100
91 219.7 107.5 322.6





#70

Stvrene

Concen: 4.772 ug/l

RT: 12.17 min Scan# 1736

Delta R.T. -0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

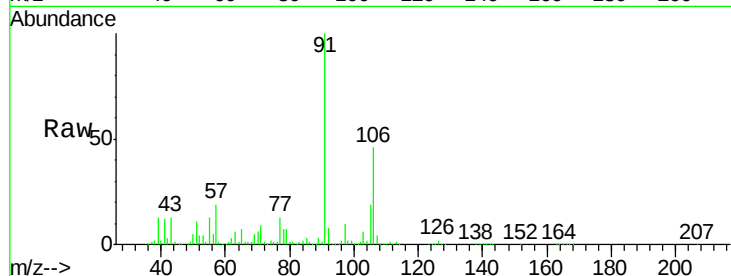
Tot Ion:104 Resp: 19215

Ion Ratio Lower Upper

104 100

78 300.4 41.0 61.4#

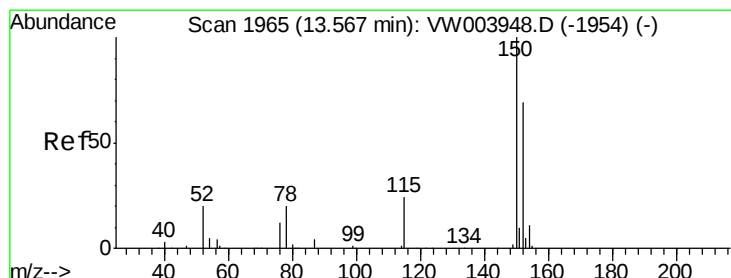
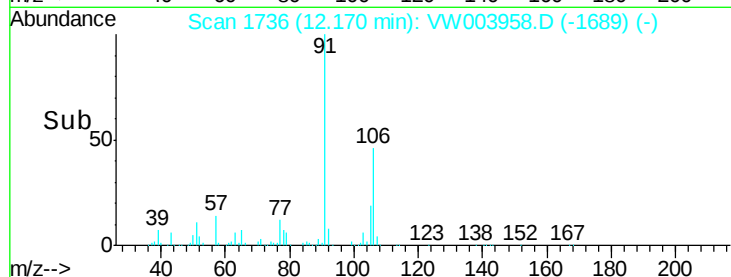
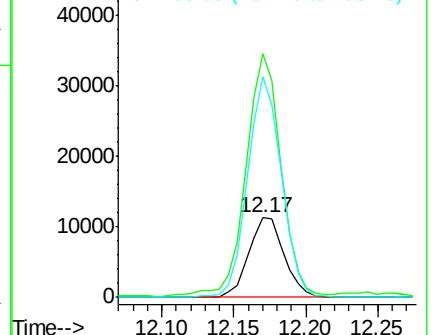
103 265.3 44.6 67.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

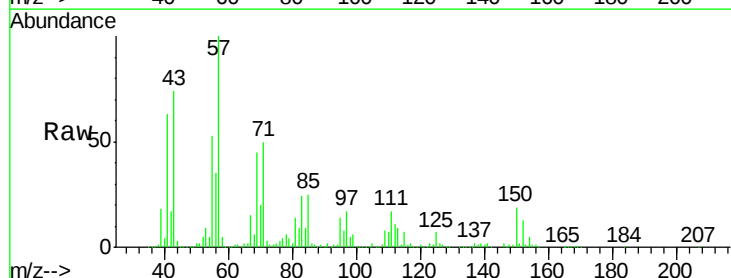
Tgt Ion:152 Resp: 68221

Ion Ratio Lower Upper

152 100

115 56.7 29.2 87.6

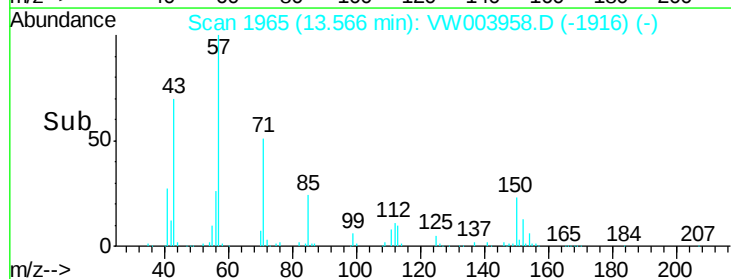
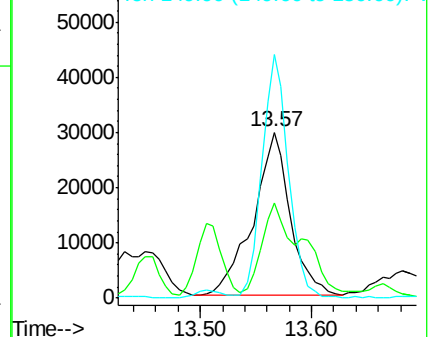
150 107.1 0.0 345.2

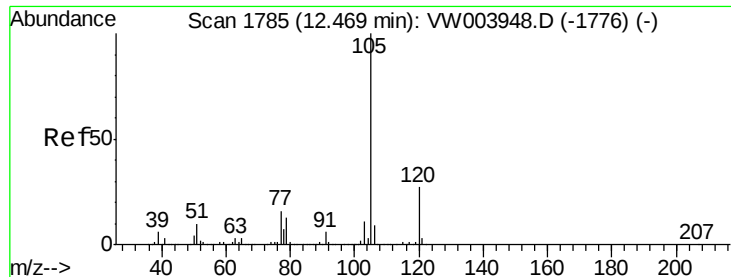


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 28.573 ug/l

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

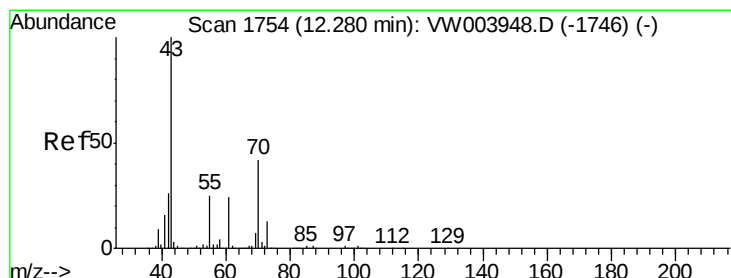
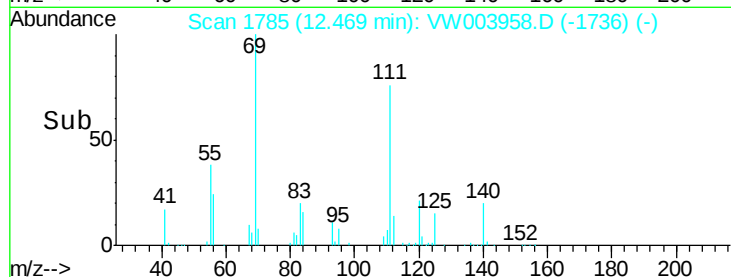
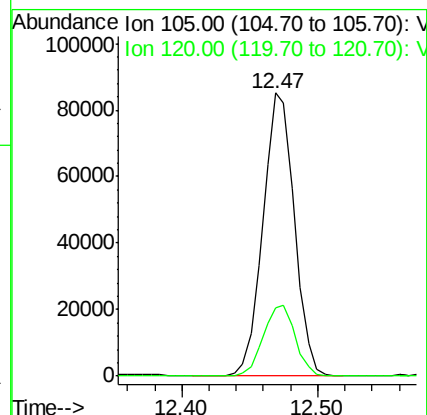
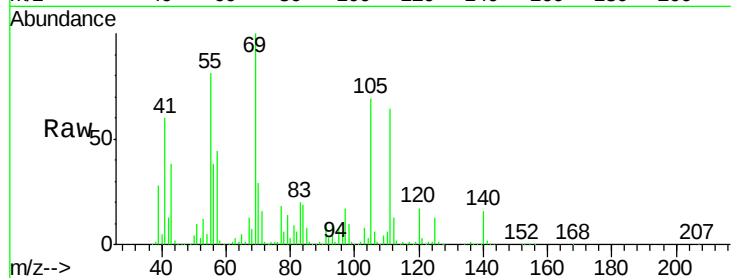
ClientSampleId :

Tot Ion:105 Resp: 137741

Ion Ratio Lower Upper

105 100

120 25.4 13.2 39.6



#74

N-ethyl acetate

Concen: 530.359 ug/l

RT: 12.26 min Scan# 1751

Delta R.T. -0.02 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Tgt Ion: 43 Resp: 666171

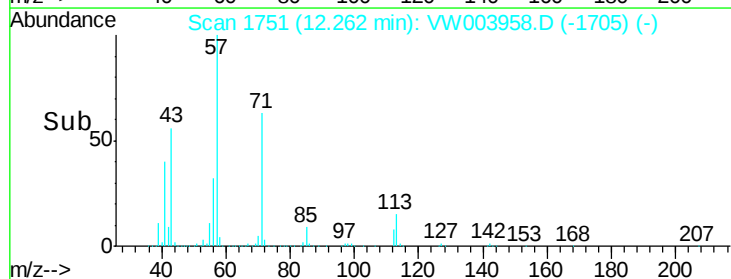
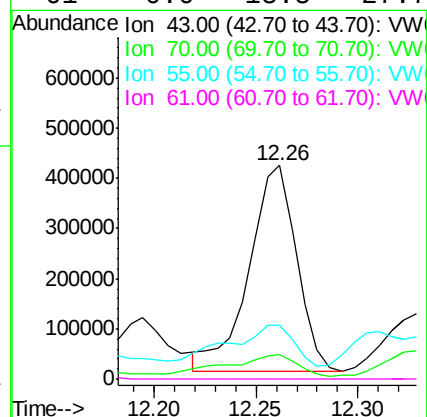
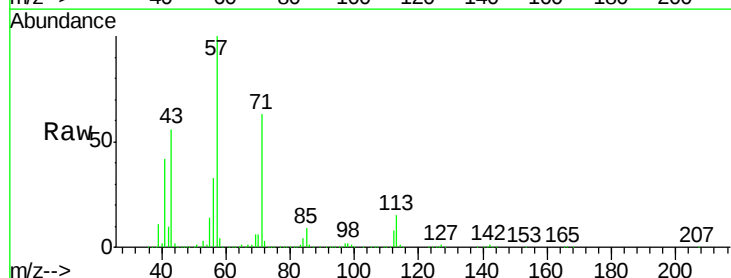
Ion Ratio Lower Upper

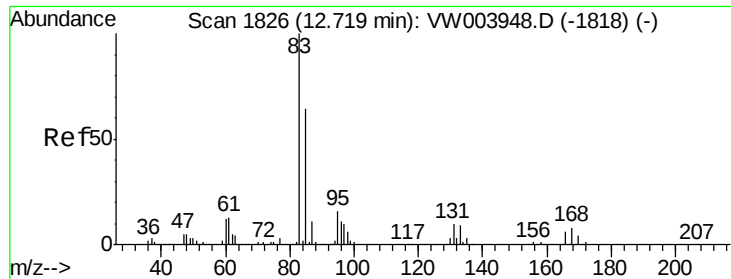
43 100

70 15.3 31.6 47.4#

55 29.0 20.0 30.0

61 0.0 18.5 27.7#





#75

1,1,2,2-Tetrachloroethane

Concen: 47.374 ug/l

RT: 12.70 min Scan# 1823

Delta R.T. -0.02 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

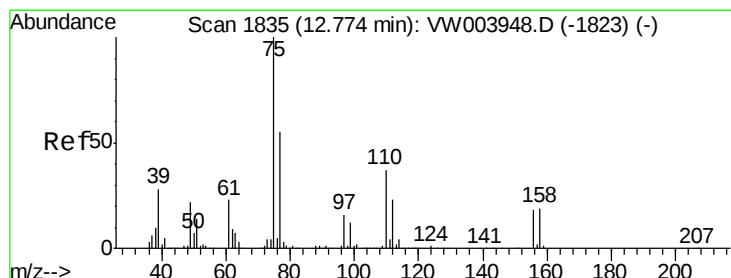
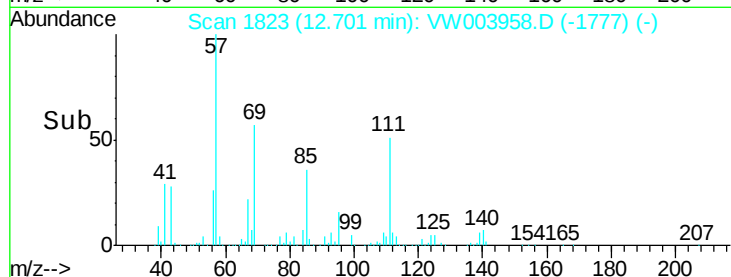
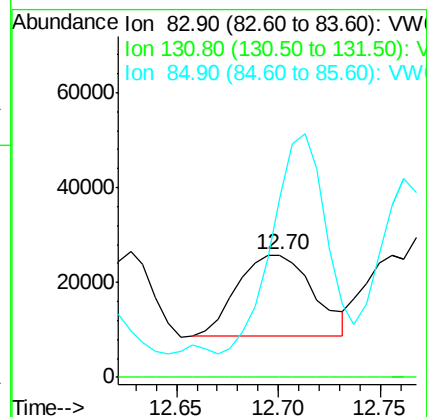
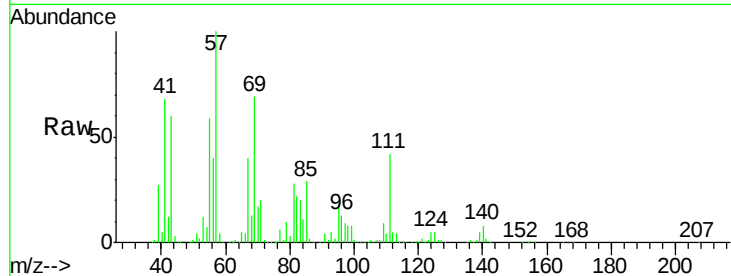
Tot Ion: 83 Resp: 44166

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 196.0 32.2 96.6#



#76

1,2,3-Trichloropropane

Concen: 2.343 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. 0.04 min

Lab File: VW003958.D

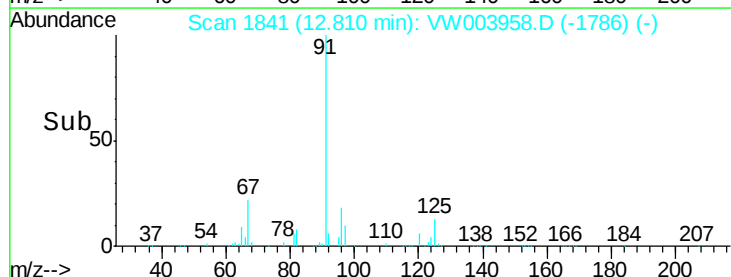
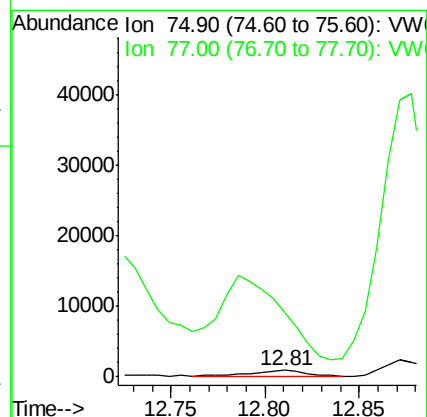
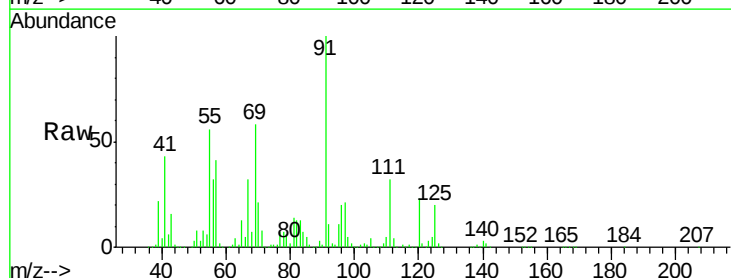
Acq: 16 Jul 2018 18:24

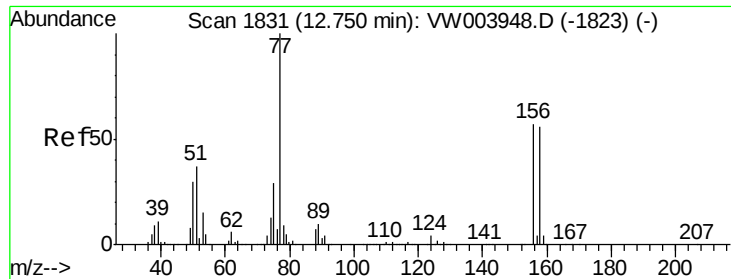
Tgt Ion: 75 Resp: 1587

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 1.177 ug/l

RT: 12.71 min Scan# 1825

Delta R.T. -0.04 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampled :

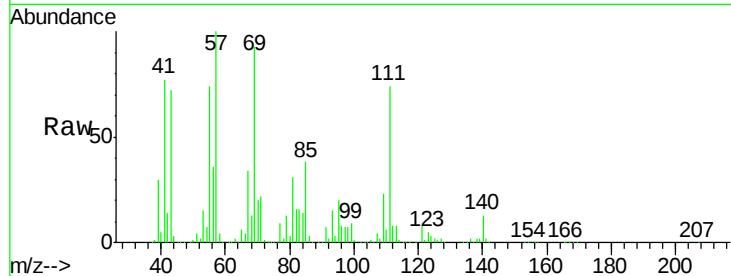
Tot Ion:156 Resp: 1358

Ion Ratio Lower Upper

156 100

77 3406.3 96.2 288.6#

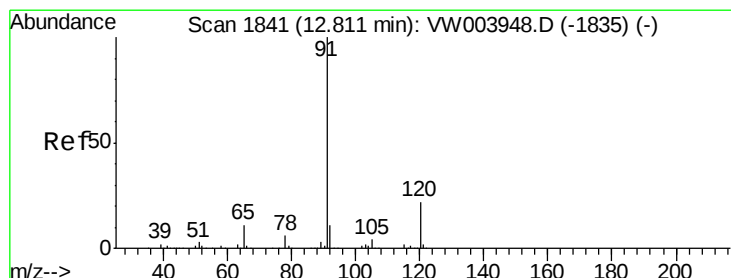
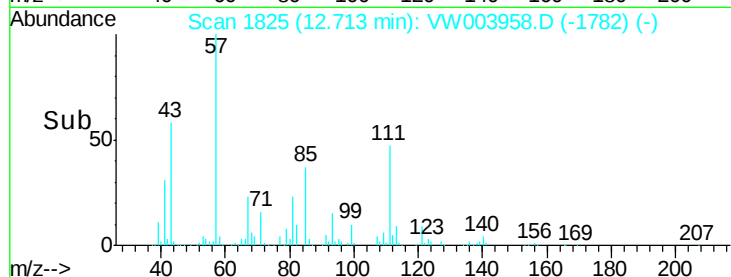
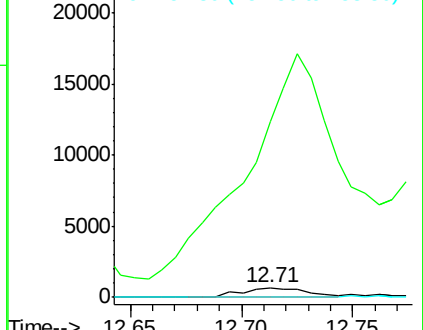
158 0.0 48.5 145.5#



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: 32.661 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW003958.D

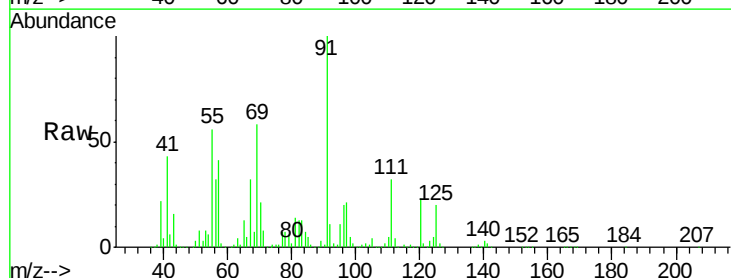
Acq: 16 Jul 2018 18:24

Tgt Ion: 91 Resp: 193160

Ion Ratio Lower Upper

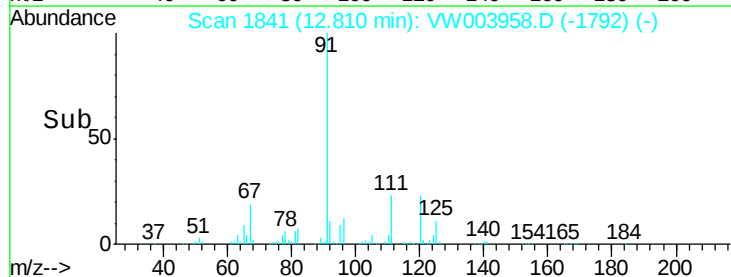
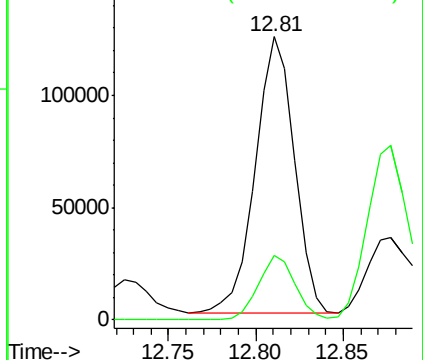
91 100

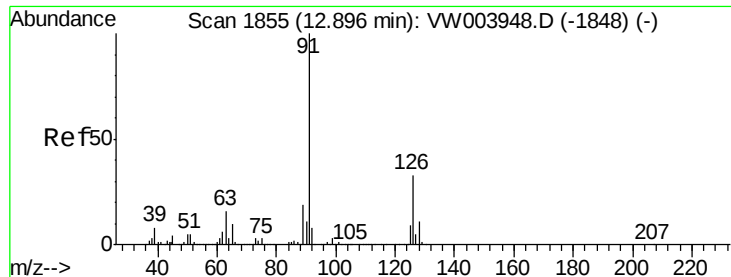
120 22.1 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 14.007 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. 0.05 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

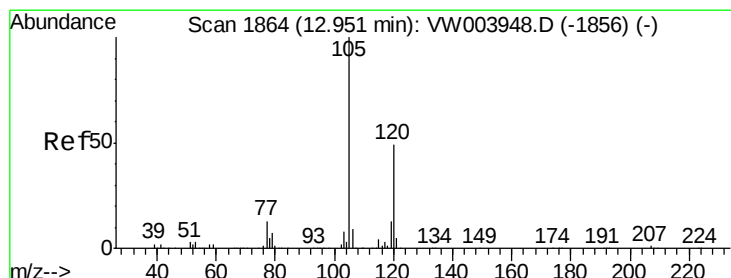
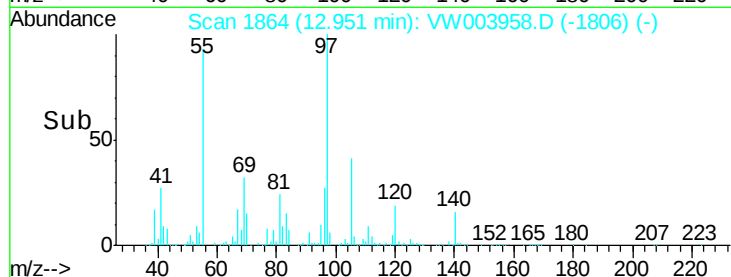
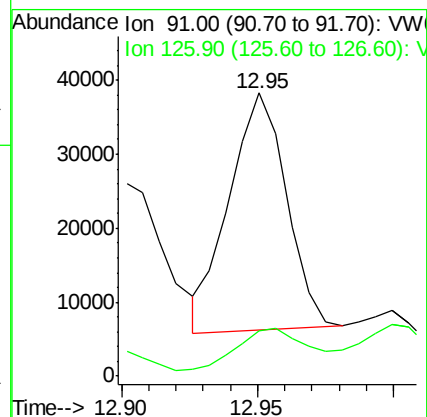
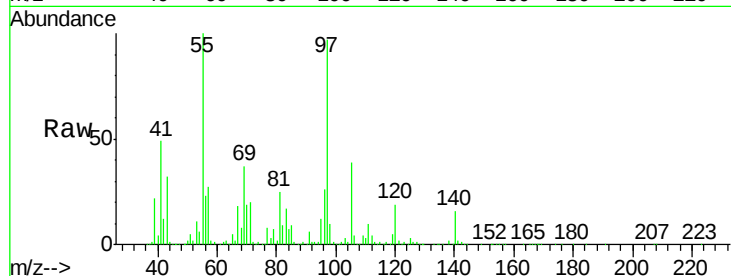
ClientSampleId :

Tot Ion: 91 Resp: 46722

Ion Ratio Lower Upper

91 100

126 21.9 17.0 51.0



#80

1,3,5-Trimethylbenzene

Concen: 95.186 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW003958.D

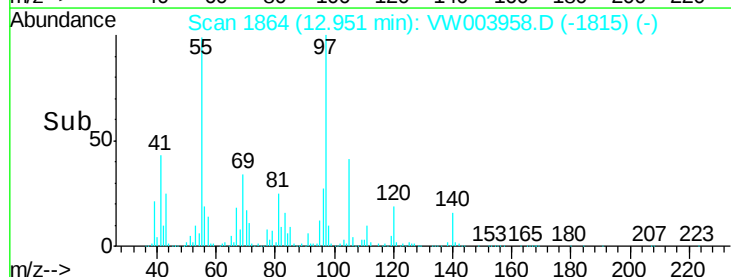
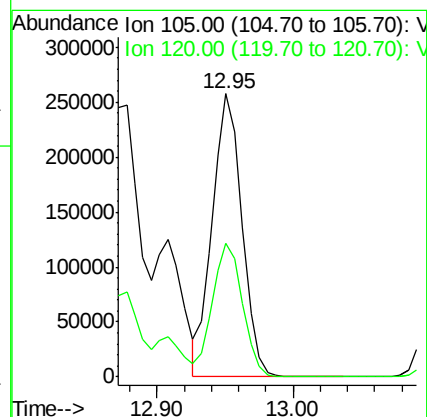
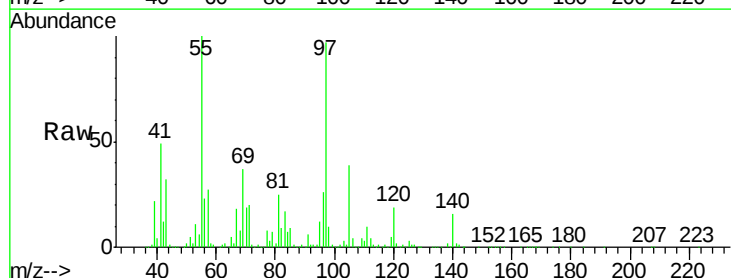
Acq: 16 Jul 2018 18:24

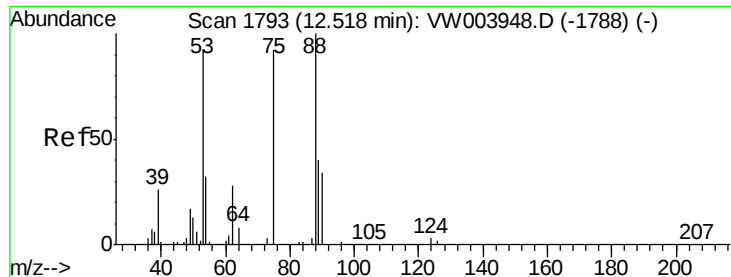
Tgt Ion:105 Resp: 386150

Ion Ratio Lower Upper

105 100

120 48.7 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 7.714 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.04 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

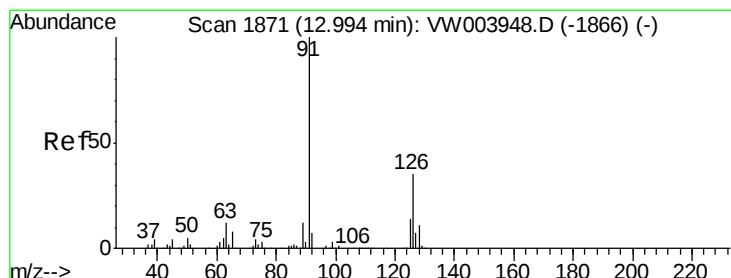
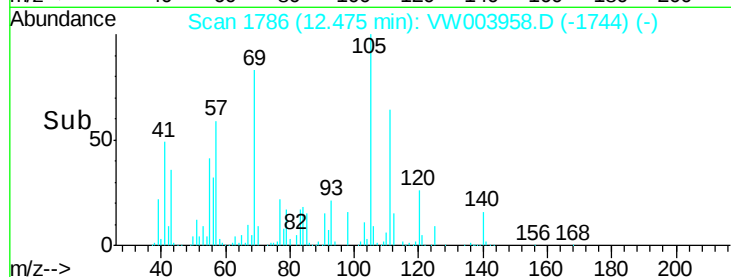
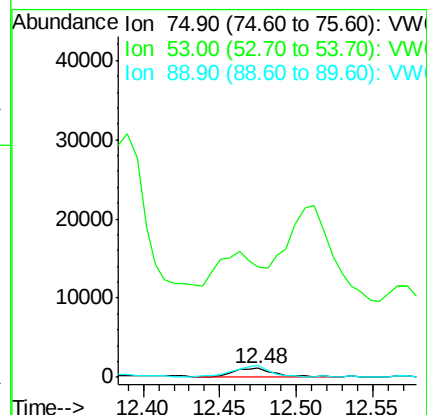
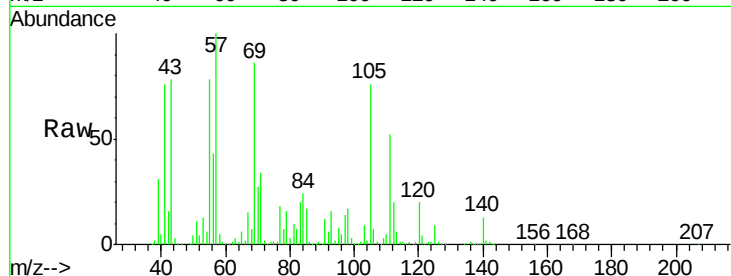
Tot Ion: 75 Resp: 2362

Ion Ratio Lower Upper

75 100

53 335.6 77.6 116.4#

89 101.1 36.6 54.8#



#82

4-Chlorotoluene

Concen: 12.591 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.04 min

Lab File: VW003958.D

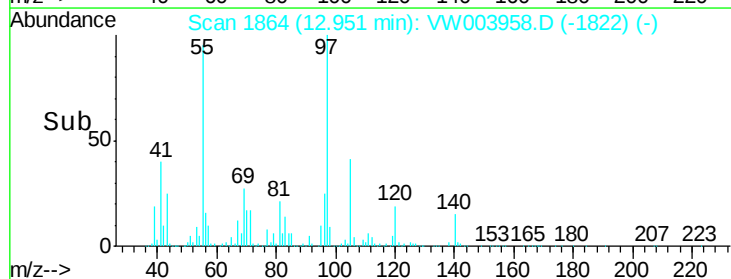
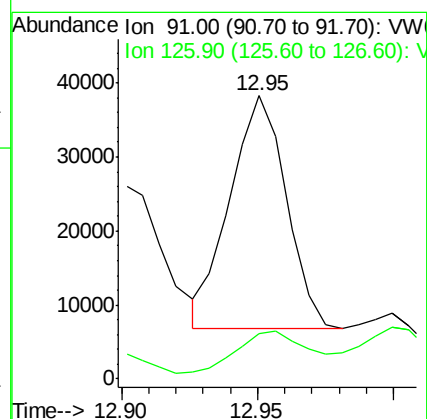
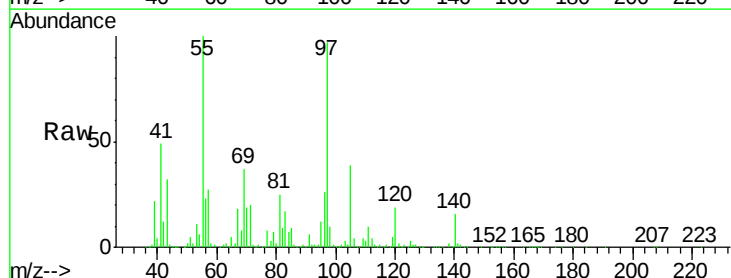
Acq: 16 Jul 2018 18:24

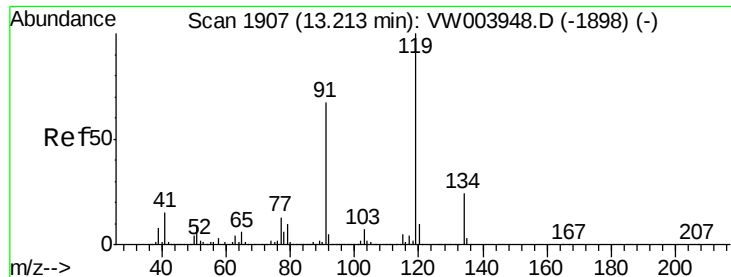
Tgt Ion: 91 Resp: 45071

Ion Ratio Lower Upper

91 100

126 22.7 16.7 50.0

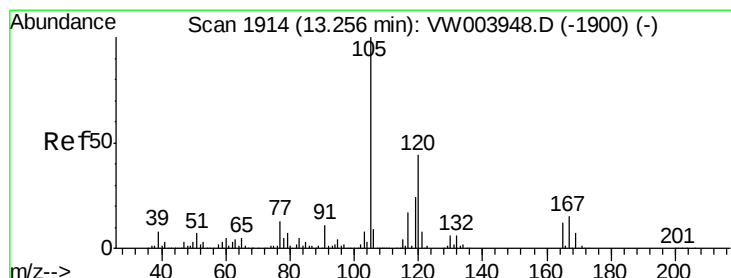
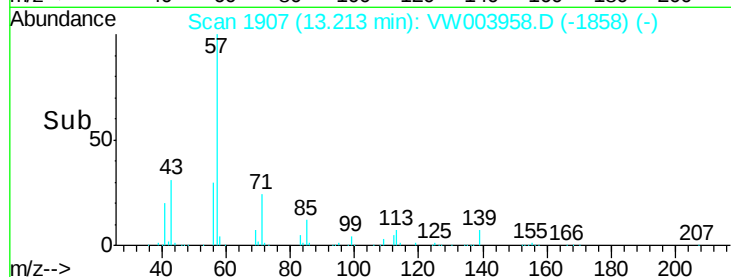
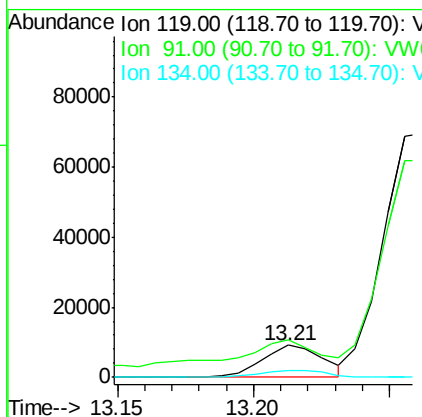
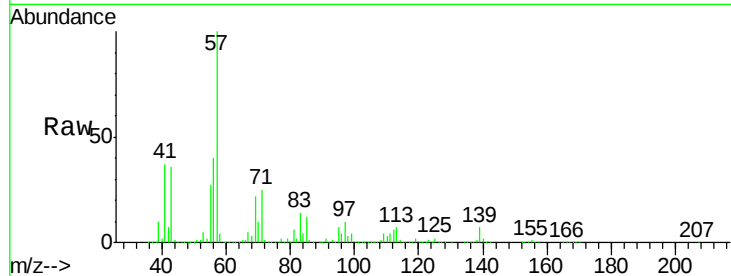




#83
tert-Butylbenzene
Concen: 4.053 ug/l
RT: 13.21 min Scan# 1907
Delta R.T. -0.00 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

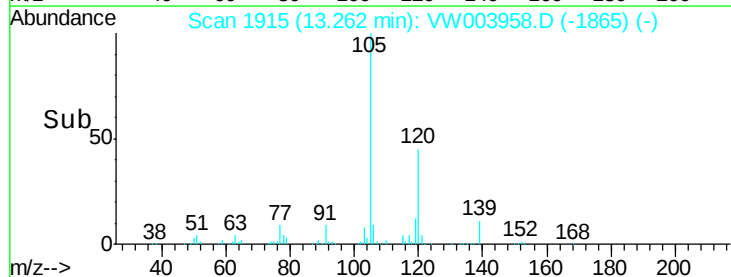
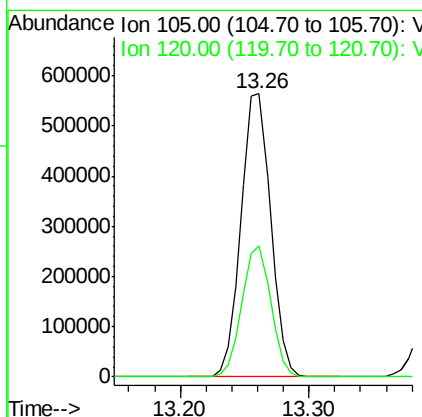
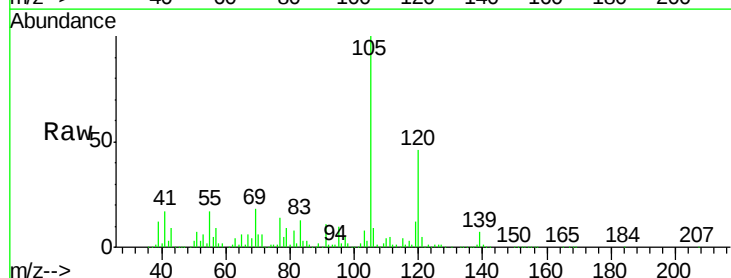
Instrument :
MSVOA_W
ClientSampleId :

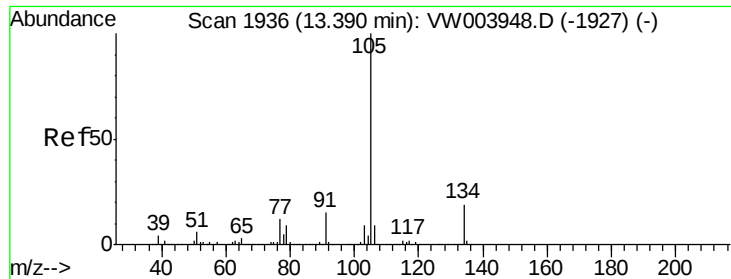
Tot Ion:119 Resp: 13804
Ion Ratio Lower Upper
119 100
91 106.2 33.2 99.6#
134 25.6 13.0 38.9



#84
1,2,4-Trimethylbenzene
Concen: 214.304 ug/l
RT: 13.26 min Scan# 1915
Delta R.T. 0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion:105 Resp: 894463
Ion Ratio Lower Upper
105 100
120 45.4 22.1 66.1

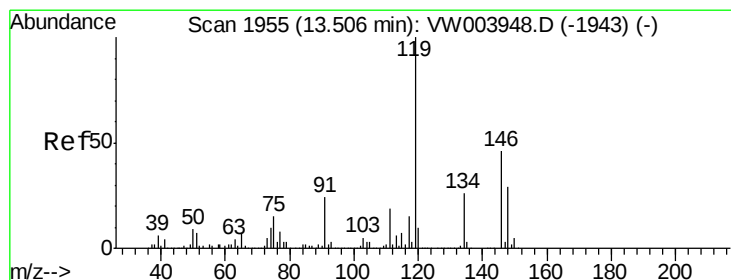
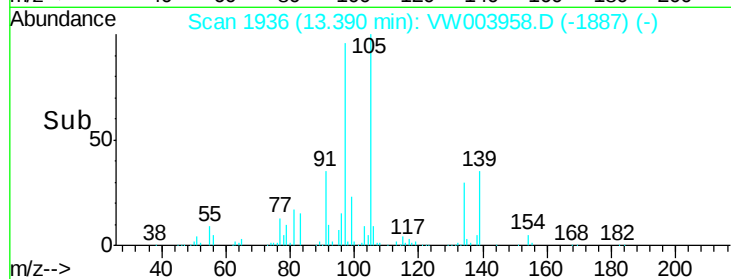
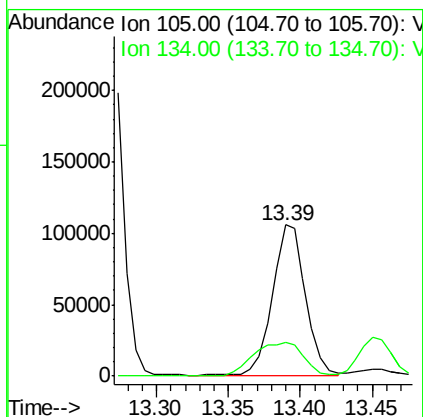
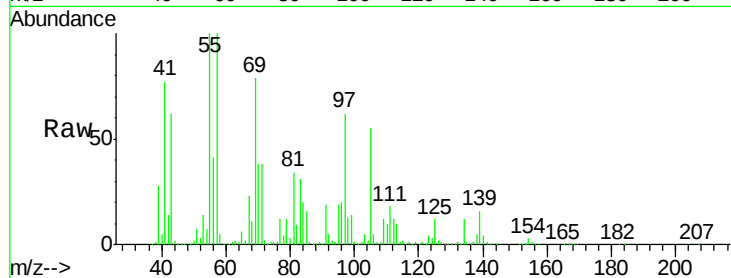




#85
 sec-Butylbenzene
 Concen: 32.988 ug/l
 RT: 13.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

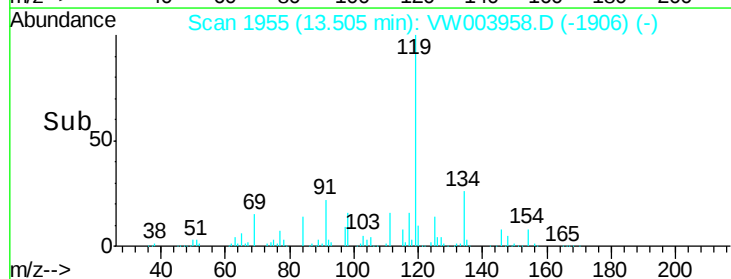
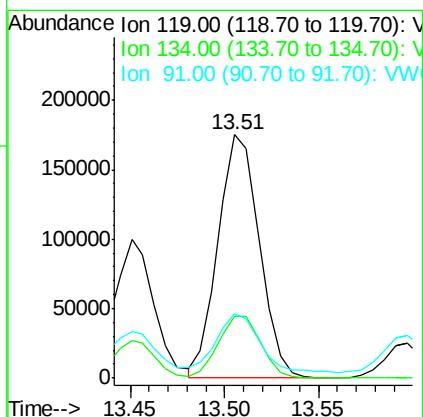
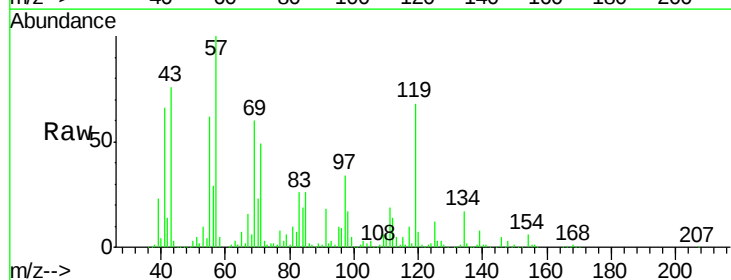
Instrument :
 MSVOA_W
 ClientSampleId :

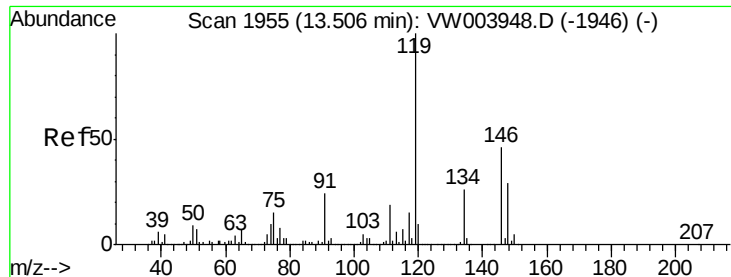
Tot Ion:105 Resp: 166708
 Ion Ratio Lower Upper
 105 100
 134 34.3 9.8 29.4#



#86
 p-Isopropyltoluene
 Concen: 60.031 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Tgt Ion:119 Resp: 266103
 Ion Ratio Lower Upper
 119 100
 134 26.4 13.0 38.9
 91 25.4 11.8 35.3

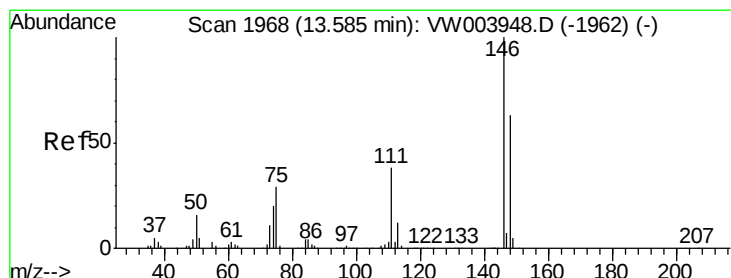
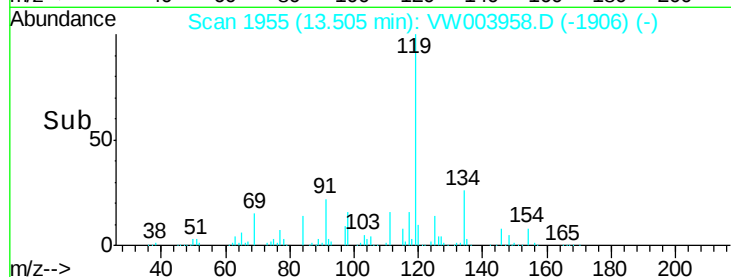
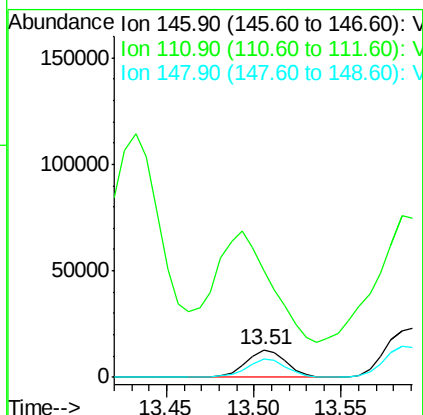
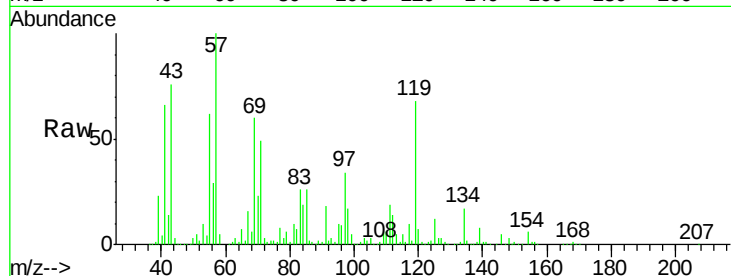




#87
 1,3-Dichlorobenzene
 Concen: 8.940 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

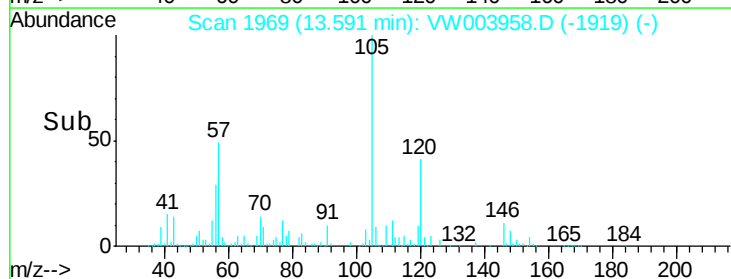
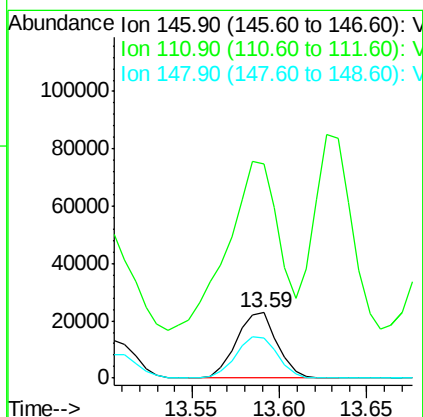
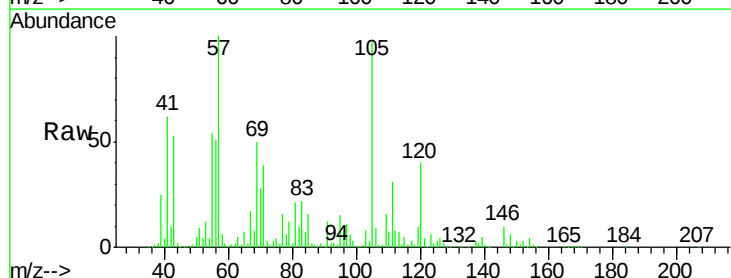
Instrument :
 MSVOA_W
 ClientSampleId :

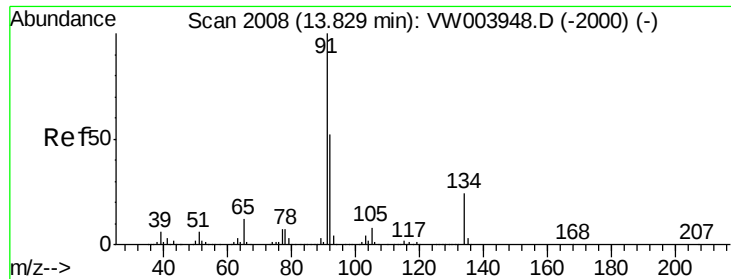
Tot Ion:146 Resp: 20596
 Ion Ratio Lower Upper
 146 100
 111 547.5 19.9 59.6#
 148 65.4 31.9 95.5



#88
 1,4-Dichlorobenzene
 Concen: 15.995 ug/l
 RT: 13.59 min Scan# 1969
 Delta R.T. 0.01 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Tgt Ion:146 Resp: 36956
 Ion Ratio Lower Upper
 146 100
 111 324.0 19.6 58.7#
 148 65.3 32.3 96.8

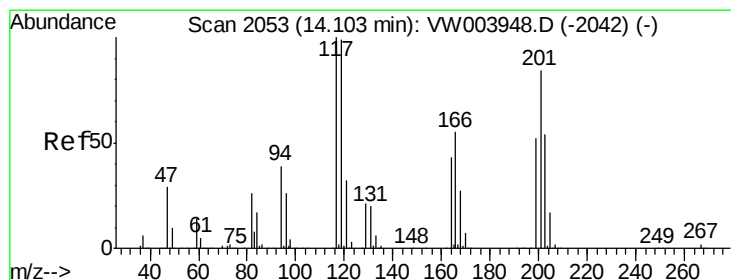
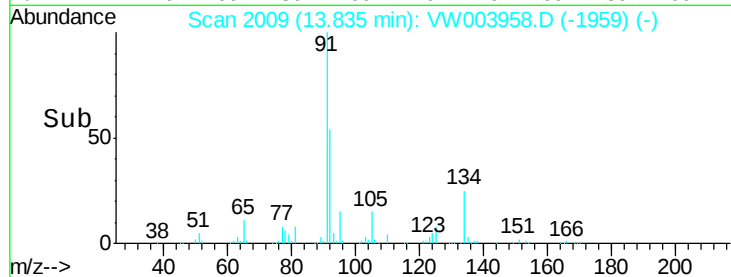
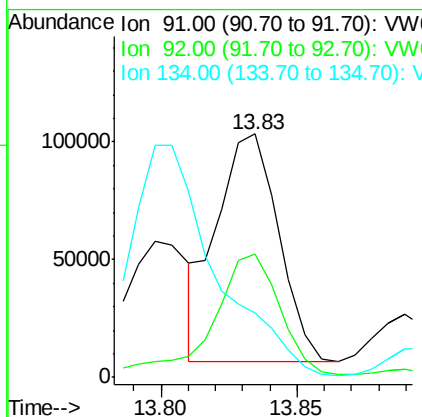
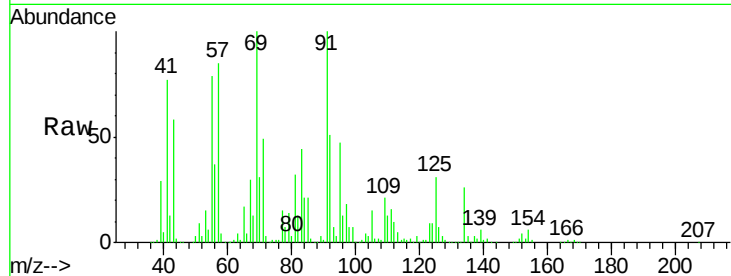




#89
n-Butylbenzene
Concen: 34.722 ug/l
RT: 13.83 min Scan# 2009
Delta R.T. 0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

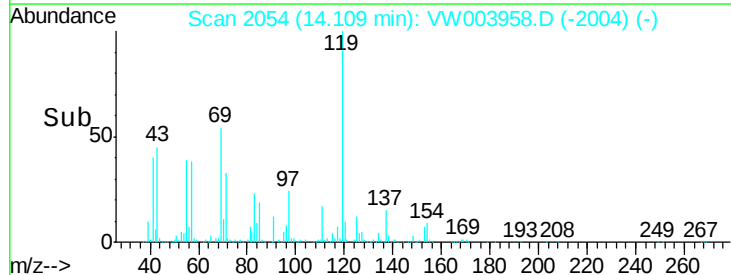
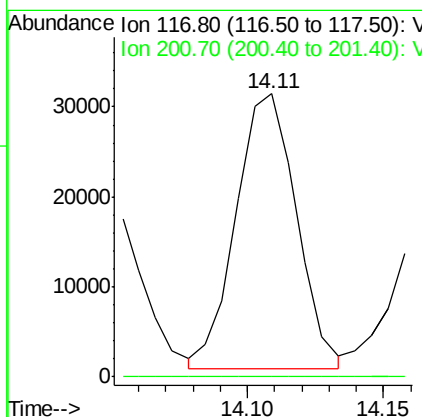
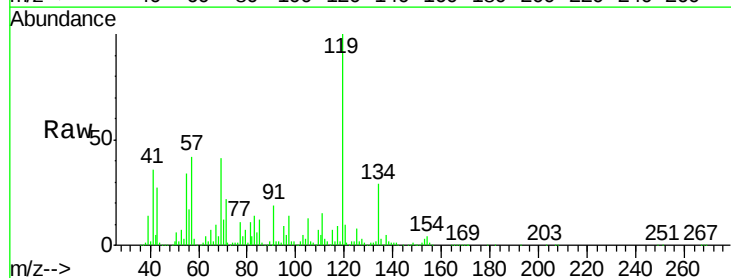
Instrument :
MSVOA_W
ClientSampleId :

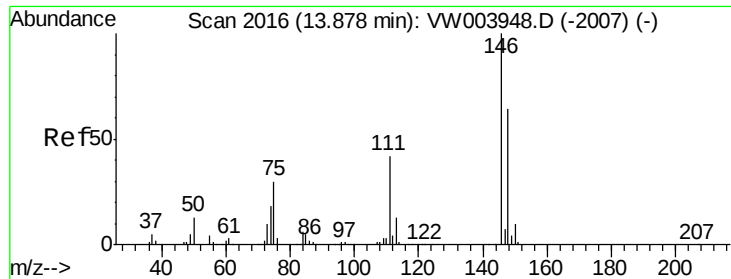
Tot Ion: 91 Resp: 151303
Ion Ratio Lower Upper
91 100
92 57.1 26.1 78.3
134 0.0 12.4 37.4#



#90
Hexachloroethane
Concen: 57.421 ug/l
RT: 14.11 min Scan# 2054
Delta R.T. 0.01 min
Lab File: VW003958.D
Acq: 16 Jul 2018 18:24

Tgt Ion: 117 Resp: 46920
Ion Ratio Lower Upper
117 100
201 0.0 40.3 120.9#





#91

1,2-Dichlorobenzene

Concen: 18.386 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VW003958.D

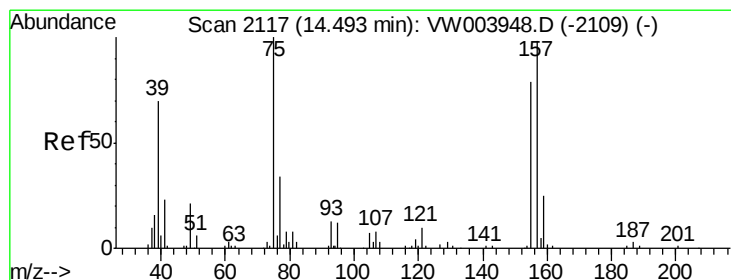
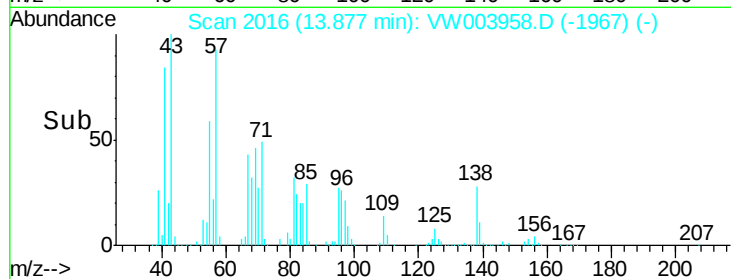
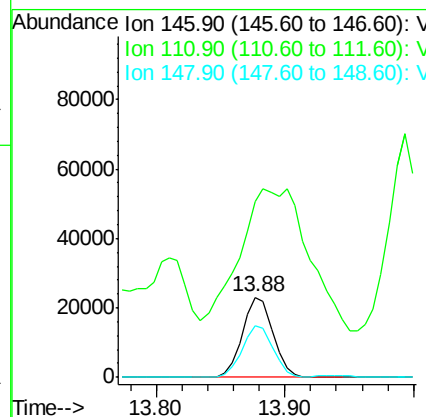
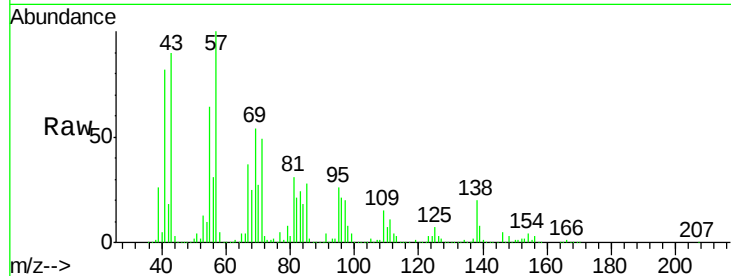
Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:146 Resp: 37739
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.7 62.1#
 148 64.9 32.0 96.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 16.492 ug/l

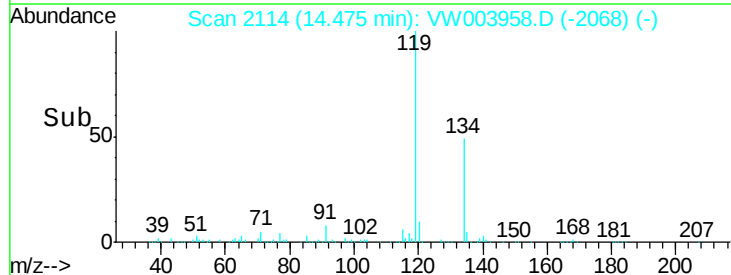
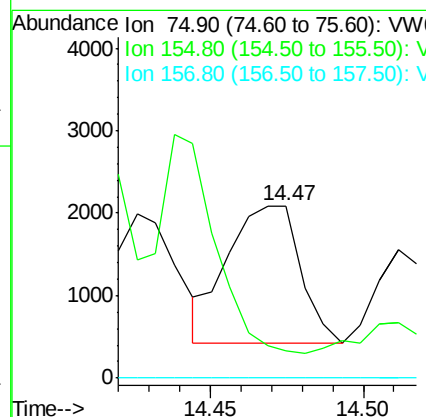
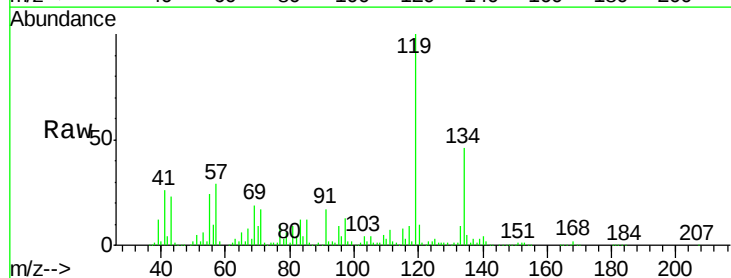
RT: 14.47 min Scan# 2114

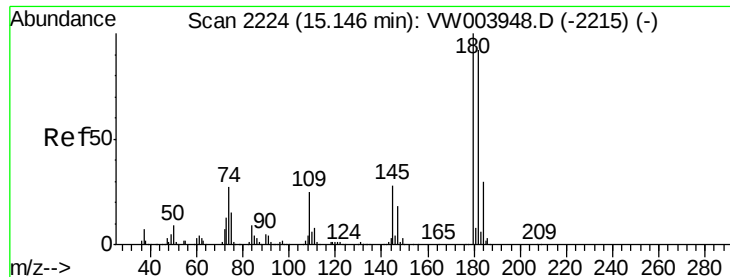
Delta R.T. -0.02 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Tgt Ion: 75 Resp: 2734
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.4 118.1#
 157 0.0 51.8 155.4#

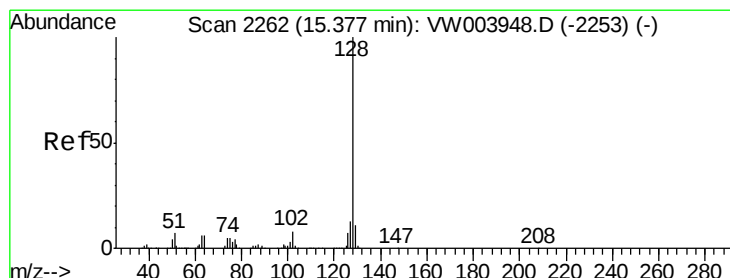
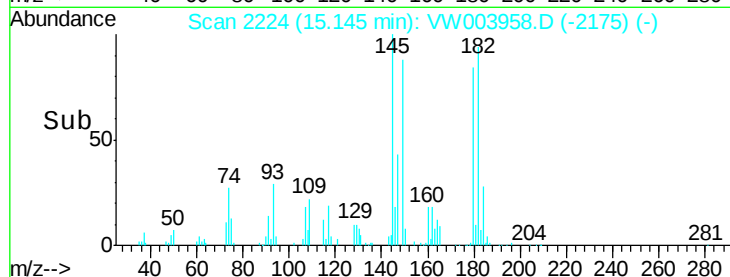
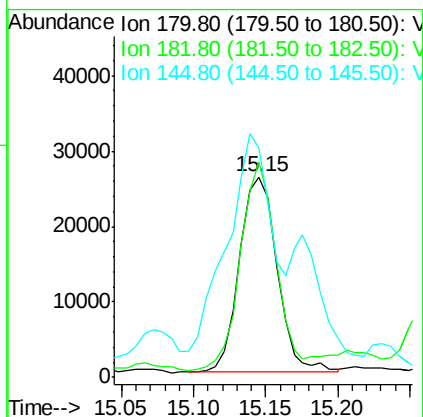
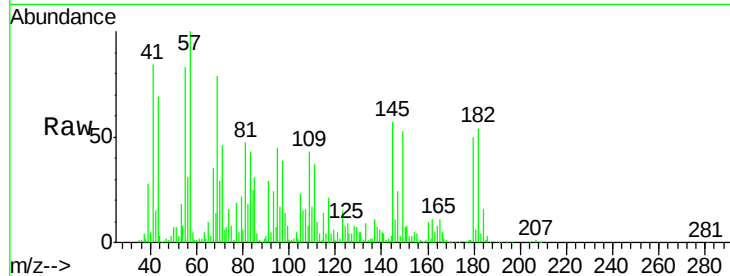




#93
 1,2,4-Trichlorobenzene
 Concen: 32.666 ug/l
 RT: 15.15 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

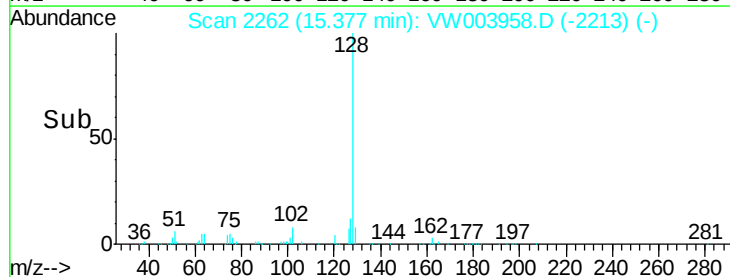
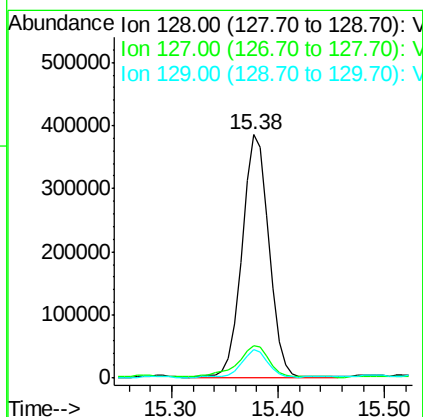
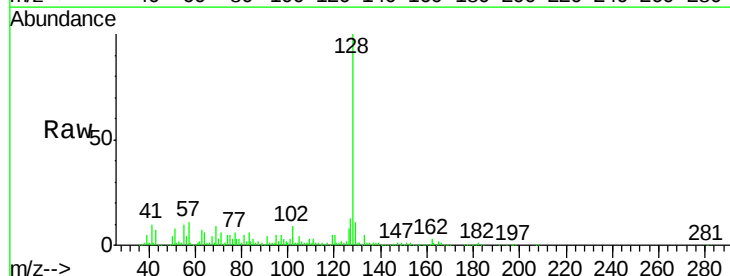
Instrument :
 MSVOA_W
 ClientSampleId :

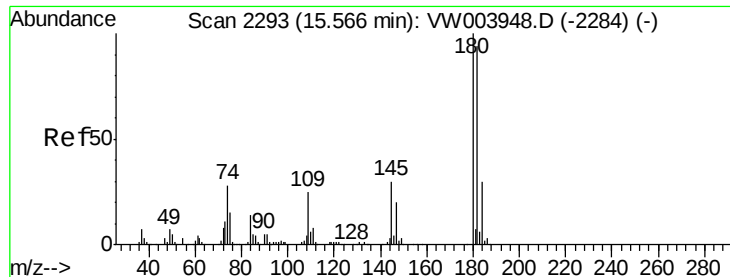
Tot Ion:180 Resp: 47092
 Ion Ratio Lower Upper
 180 100
 182 103.3 46.9 140.8
 145 157.1 15.0 45.0#



#95
 Naphthalene
 Concen: 255.901 ug/l
 RT: 15.38 min Scan# 2262
 Delta R.T. -0.00 min
 Lab File: VW003958.D
 Acq: 16 Jul 2018 18:24

Tgt Ion:128 Resp: 680916
 Ion Ratio Lower Upper
 128 100
 127 15.3 10.7 16.1
 129 11.0 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 4.964 ug/l

RT: 15.58 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VW003958.D

Acq: 16 Jul 2018 18:24

Instrument :

MSVOA_W

ClientSampleId :

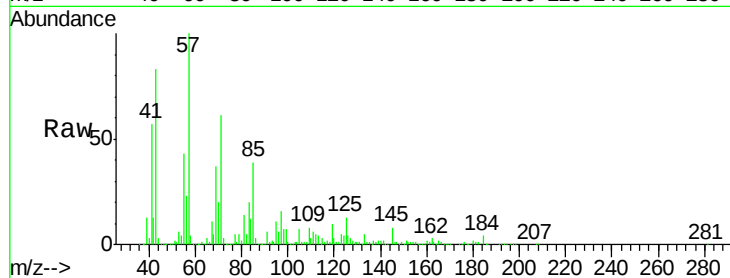
Tot Ion:180 Resp: 6336

Ion Ratio Lower Upper

180 100

182 65.5 47.5 142.6

145 0.0 15.8 47.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

