

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081518\
 Data File : VW004666.D
 Acq On : 14 Aug 2018 13:26
 Operator : SY/AP
 Sample : J4450-16
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GAB13

Quant Time: Aug 16 11:23:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM081418S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 14 12:36:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	1046363	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1018519	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	514865	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	366597	22.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.16%
7) Chloroethane-d5	2.89	69	290265	22.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.32%
10) 1,1-Dichloroethene-d2	4.01	63	681545	22.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.60%
20) 2-Butanone-d5	7.09	46	206038	45.78	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.56%
24) Chloroform-d	7.65	84	636153	22.69	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.76%
26) 1,2-Dichloroethane-d4	8.31	65	357356	24.05	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.20%
29) Benzene-d6	8.27	84	1350576	23.64	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	94.56%
33) 1,2-Dichloropropane-d6	9.28	67	419183	23.63	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.52%
37) Toluene-d8	10.33	98	1193835	23.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.16%
38) trans-1,3-Dichloropropene-	10.58	79	173071	24.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.12%
39) 2-Hexanone-d5	10.93	63	172249	48.58	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.16%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	387507	23.28	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.12%
61) 1,2-Dichlorobenzene-d4	13.86	152	452806	23.18	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.72%

Target Compounds

						Ovalue
3) Chloromethane	2.21	50	276747	18.64	ug/L	100
6) Bromomethane	2.78	94	111257	9.01	ug/L	99
9) Trichlorofluoromethane	3.25	101	135170	12.45	ug/L	100
12) 1,1-Dichloroethene	4.03	96	332170	21.20	ug/L	94
13) Acetone	4.14	43	372788	90.28	ug/L	98
15) Methyl Acetate	4.67	43	327313	36.68	ug/L	100
16) Methylene chloride	4.91	84	213695	10.22	ug/L	97
17) Methyl tert-butyl Ether	5.43	73	653949	31.96	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	163656	10.17	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	428073	25.22	ug/L	99
23) Bromochloromethane	7.51	128	119835	15.14	ug/L	96
27) 1,2-Dichloroethane	8.40	62	185947	10.15	ug/L	98
30) Cyclohexane	7.96	56	245736	9.23	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	224051	9.83	ug/L	99
32) Carbon tetrachloride	8.07	117	257943	11.90	ug/L	98
35) Trichloroethene	9.09	95	646926	39.65	ug/L	99
36) Methylcyclohexane	9.34	83	750599	24.66	ug/L	99

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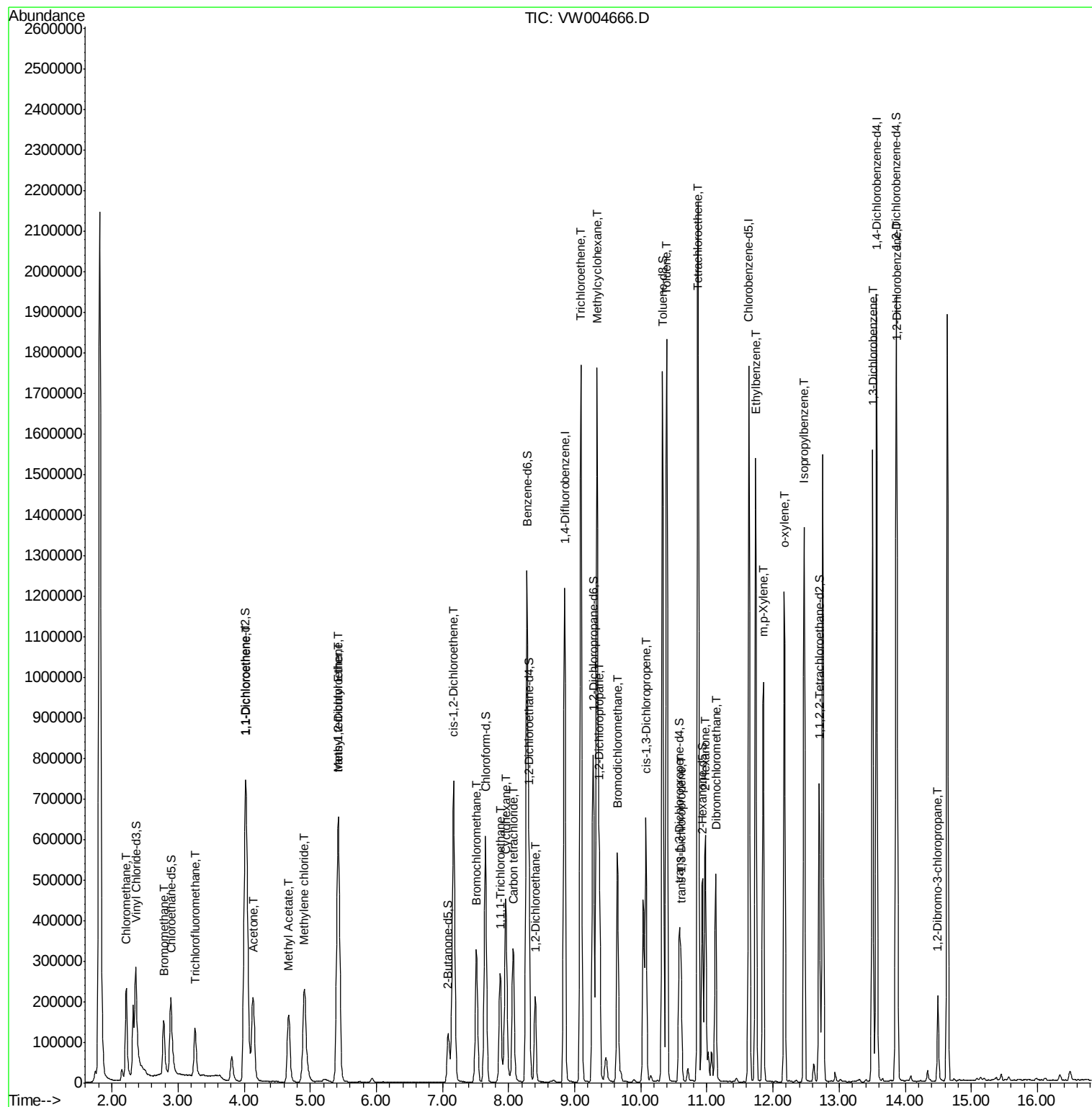
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Dichloropropane	9.37	63	212107	12.89	ug/L	100
41) Bromodichloromethane	9.65	83	385939	20.08	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	403282	17.61	ug/L	98
44) Toluene	10.39	91	1363320	20.77	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	166009	8.22	ug/L	98
47) Tetrachloroethene	10.87	164	510083	37.68	ug/L	99
49) 2-Hexanone	10.98	43	344423	43.41	ug/L	95
50) Dibromochloromethane	11.13	129	278888	19.94	ug/L	100
53) Ethylbenzene	11.74	91	1087523	14.87	ug/L	100
54) m,p-Xylene	11.85	106	274936	9.89	ug/L	98
55) o-xylene	12.17	106	321698	12.25	ug/L	100
57) Isopropylbenzene	12.47	105	865400	12.17	ug/L	100
63) 1,3-Dichlorobenzene	13.51	146	654240	19.81	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	328126	10.07	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	53859	19.62	ug/L	100

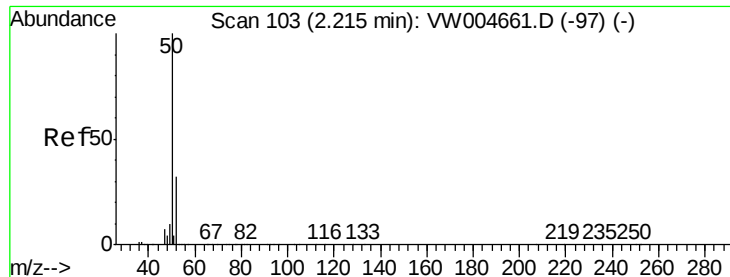
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081518\
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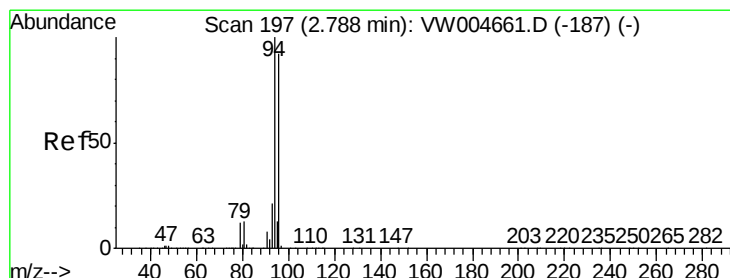
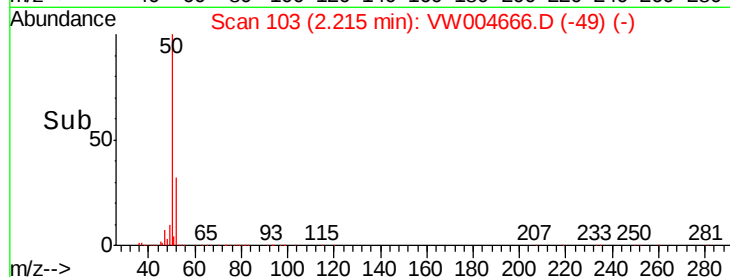
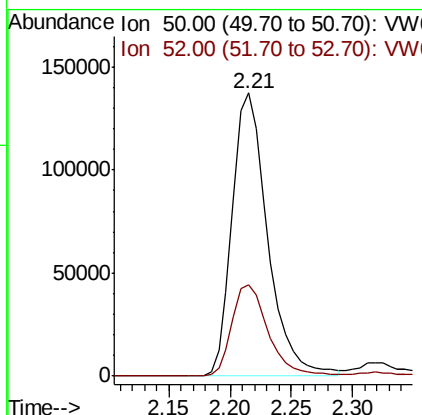
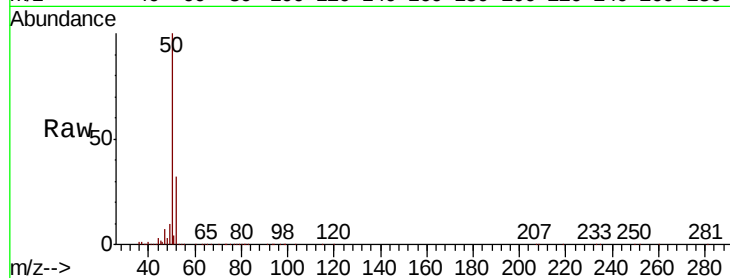




#3
Chloromethane
Concen: 18.64 ug/L
RT: 2.21 min Scan# 103
Delta R.T. -0.00 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

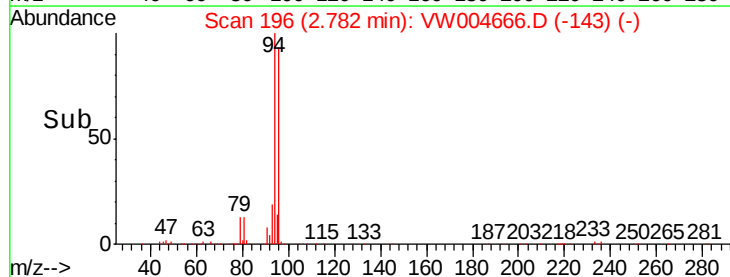
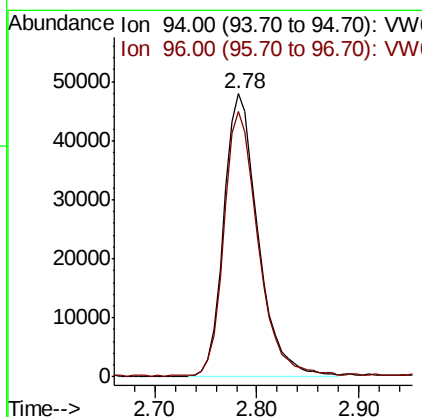
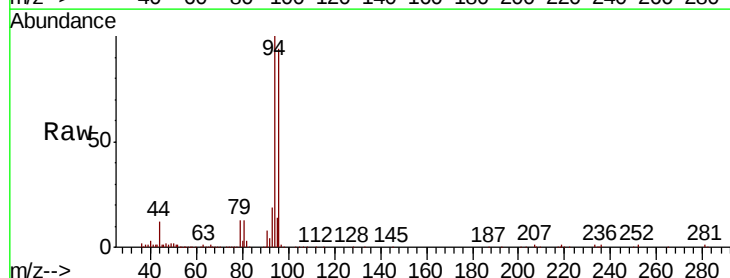
Instrument :
MSVOA_W
ClientSampleId :
GAB13

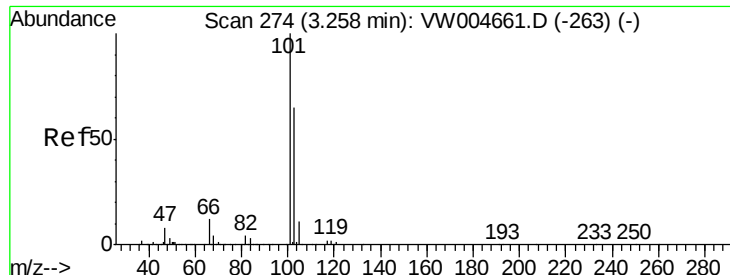
Tot Ion: 50 Resp: 276747
Ion Ratio Lower Upper
50 100
52 32.1 22.4 41.6



#6
Bromomethane
Concen: 9.01 ug/L
RT: 2.78 min Scan# 196
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Tgt Ion: 94 Resp: 111257
Ion Ratio Lower Upper
94 100
96 92.7 9.3 177.7



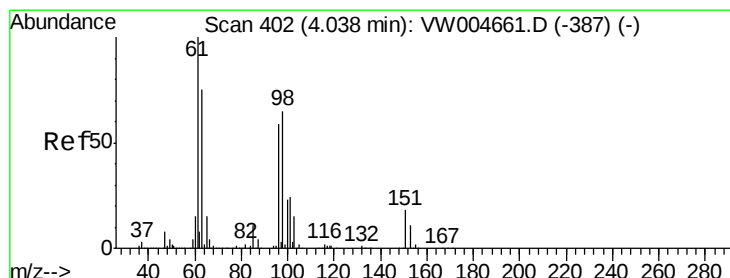
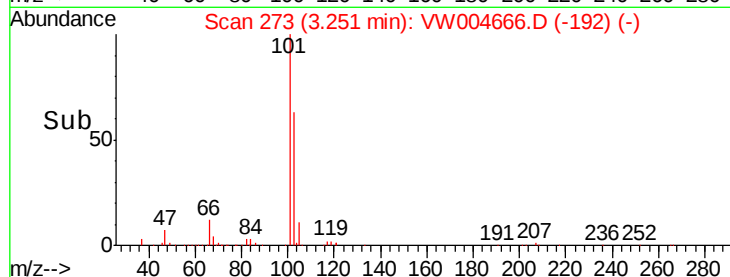
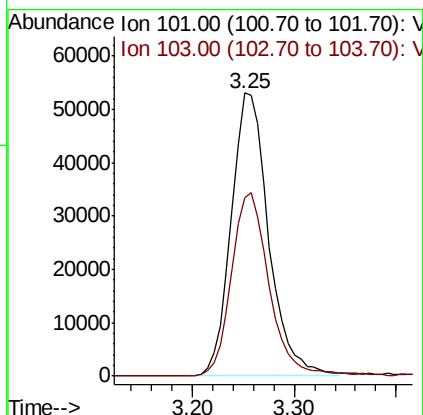
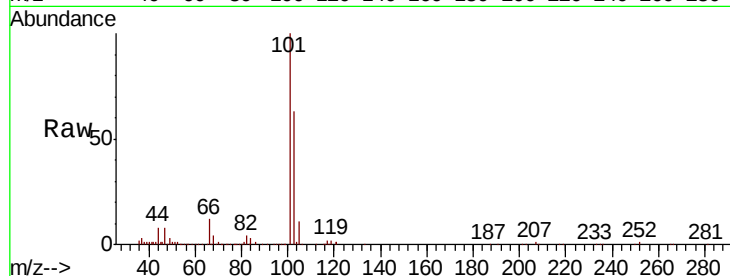


#9

Trichlorofluoromethane
Concen: 12.45 ug/L
RT: 3.25 min Scan# 273
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Instrument :
MSVOA_W
ClientSampleId :
GAB13

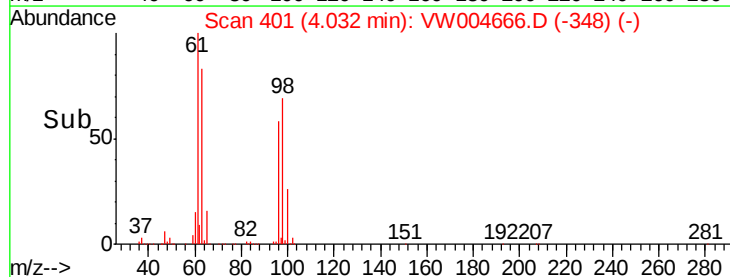
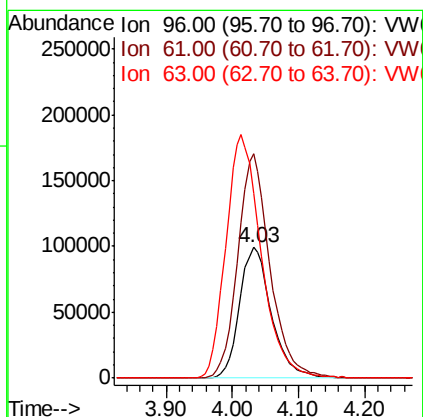
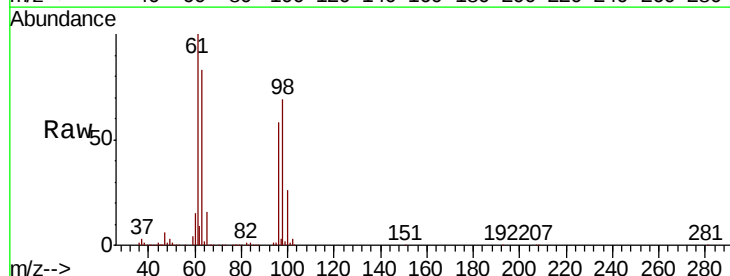
Tot Ion:101 Resp: 135170
Ion Ratio Lower Upper
101 100
103 64.1 45.1 83.7

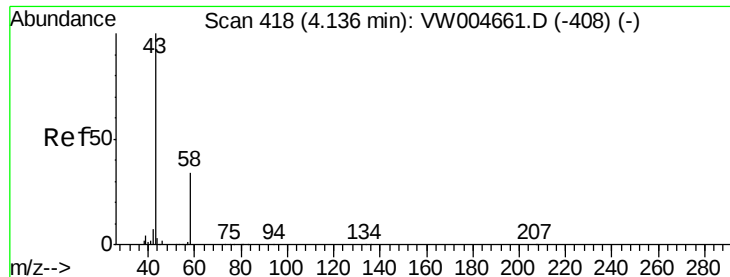


#12

1,1-Dichloroethene
Concen: 21.20 ug/L
RT: 4.03 min Scan# 401
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Tgt Ion: 96 Resp: 332170
Ion Ratio Lower Upper
96 100
61 171.7 118.9 220.7
63 141.7 88.9 165.1





#13

Acetone

Concen: 90.28 ug/L

RT: 4.14 min Scan# 418

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

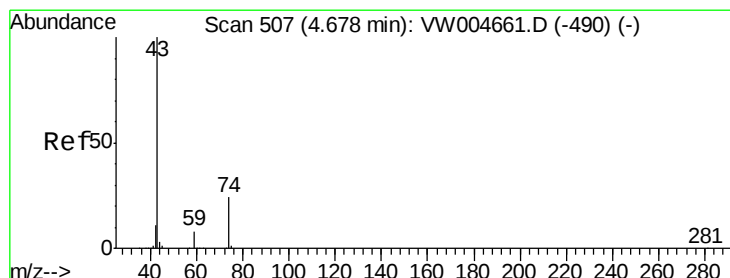
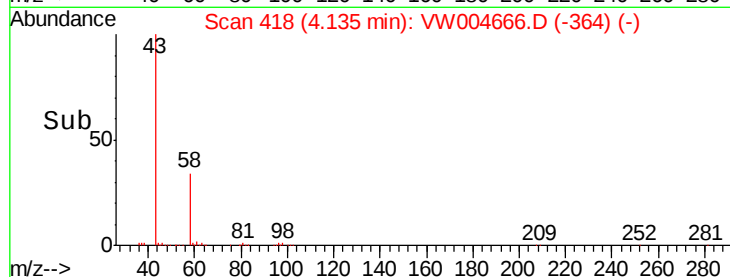
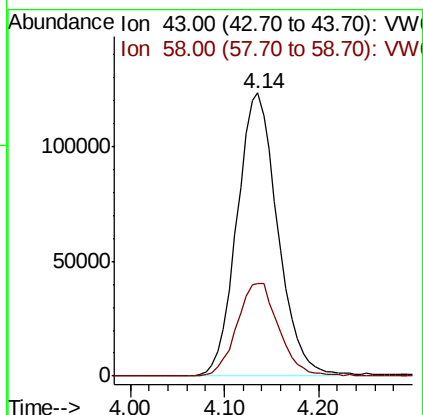
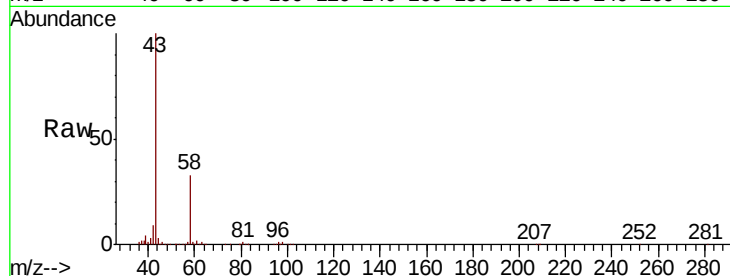
GAB13

Tot Ion: 43 Resp: 372788

Ion Ratio Lower Upper

43 100

58 33.7 0.0 69.4



#15

Methyl Acetate

Concen: 36.68 ug/L

RT: 4.67 min Scan# 506

Delta R.T. -0.01 min

Lab File: VW004666.D

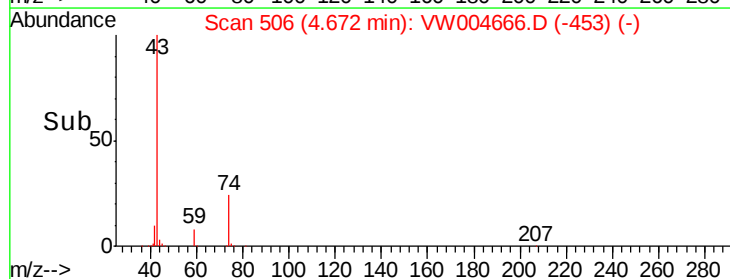
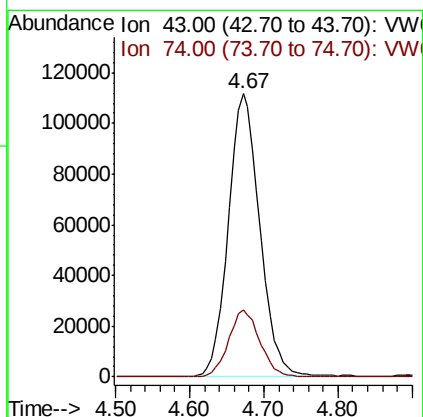
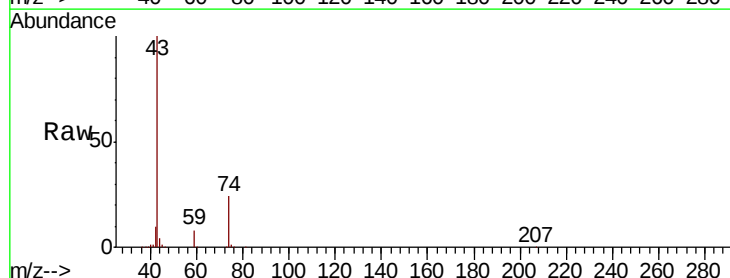
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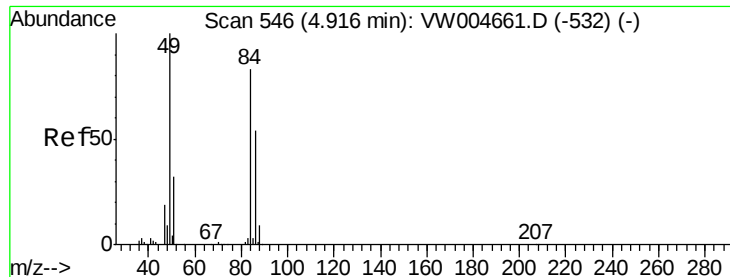
Tgt Ion: 43 Resp: 327313

Ion Ratio Lower Upper

43 100

74 23.7 18.8 28.2

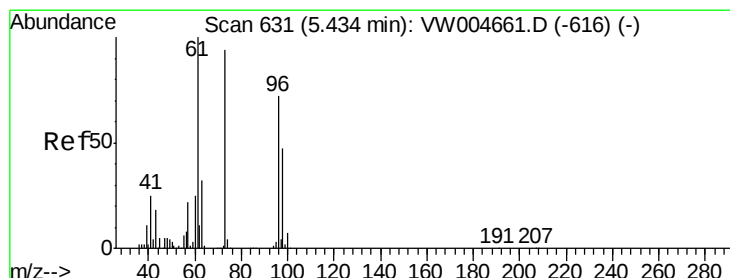
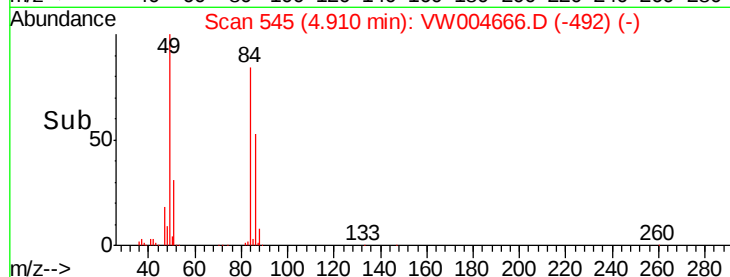
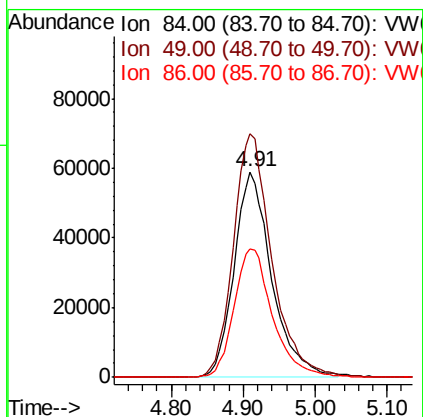
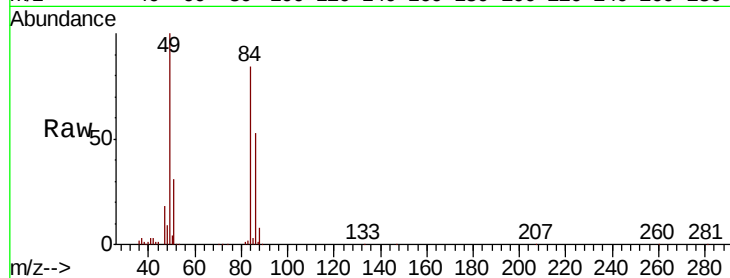




#16
Methylene chloride
Concen: 10.22 ug/L
RT: 4.91 min Scan# 545
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

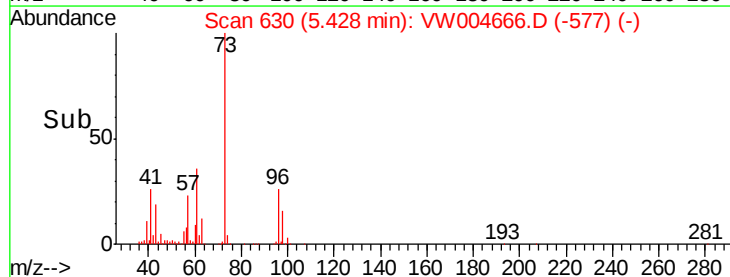
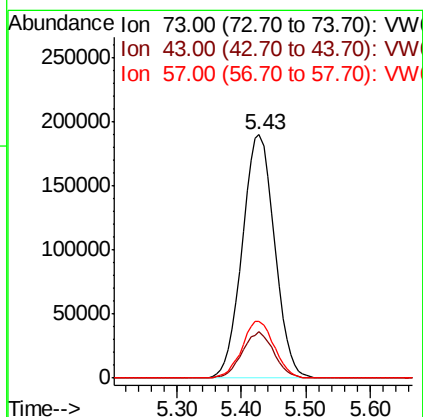
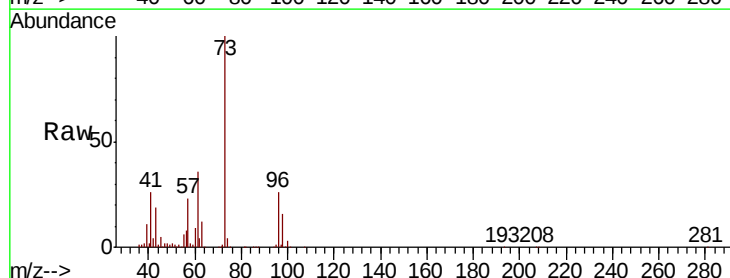
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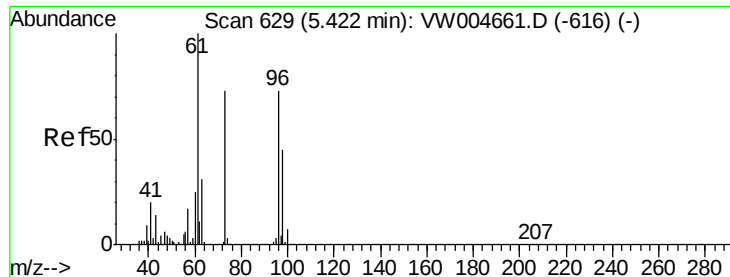
Tot Ion: 84 Resp: 213695
Ion Ratio Lower Upper
84 100
49 118.6 84.9 157.7
86 62.4 45.7 84.9



#17
Methyl tert-butyl Ether
Concen: 31.96 ug/L
RT: 5.43 min Scan# 630
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Tgt Ion: 73 Resp: 653949
Ion Ratio Lower Upper
73 100
43 18.4 15.0 22.6
57 23.4 18.6 27.8

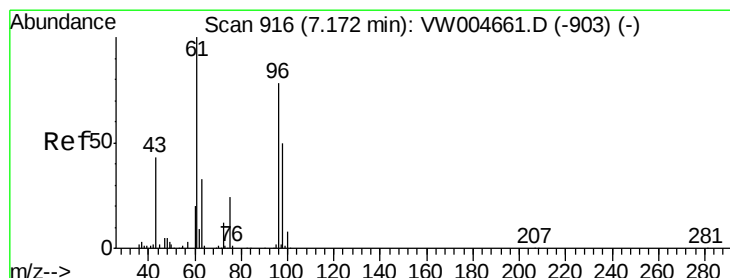
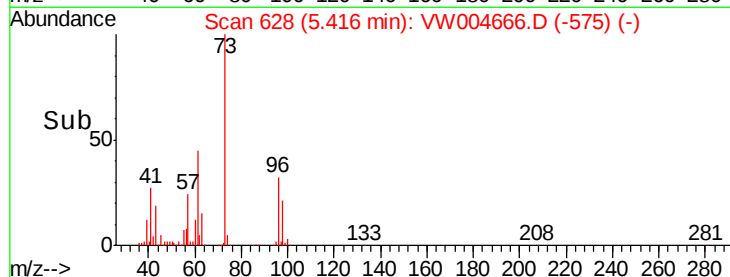
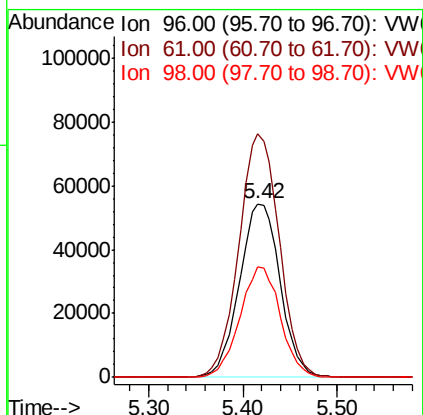
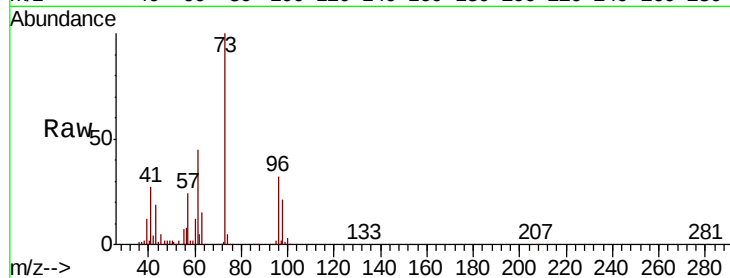




#18
trans-1,2-Dichloroethene
Concen: 10.17 ug/L
RT: 5.42 min Scan# 628
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

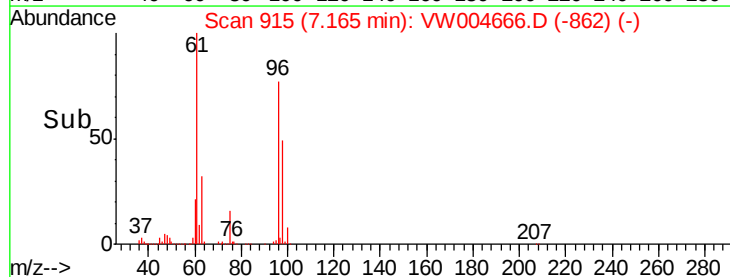
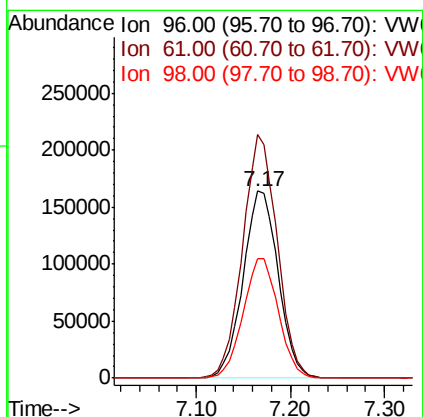
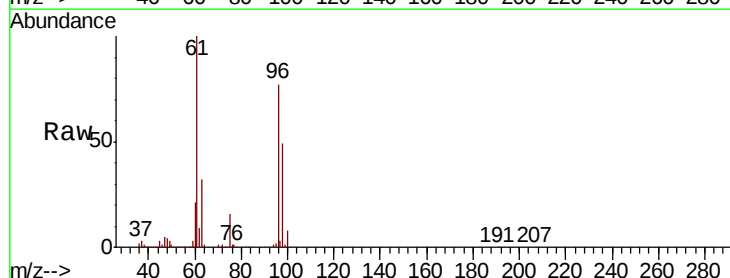
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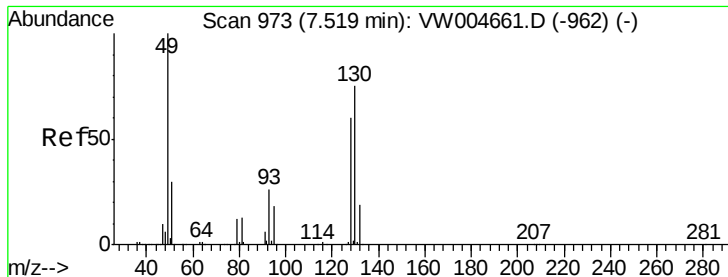
Tot Ion: 96 Resp: 163656
Ion Ratio Lower Upper
96 100
61 140.1 96.1 178.5
98 63.9 43.3 80.5



#22
cis-1,2-Dichloroethene
Concen: 25.22 ug/L
RT: 7.17 min Scan# 915
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Tgt Ion: 96 Resp: 428073
Ion Ratio Lower Upper
96 100
61 130.1 89.6 166.4
98 63.8 44.5 82.7





#23

Bromochloromethane

Concen: 15.14 ug/L

RT: 7.51 min Scan# 972

Delta R.T. -0.01 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

GAB13

Tot Ion:128 Resp: 119835

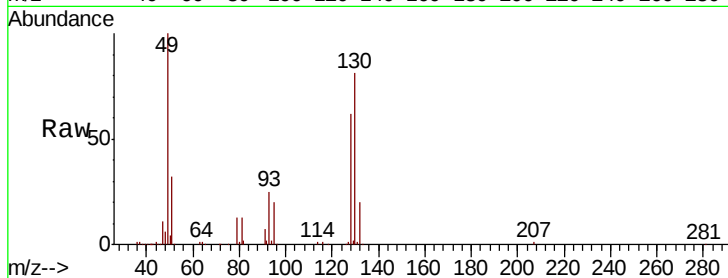
Ion Ratio Lower Upper

128 100

49 162.1 116.0 215.4

130 131.0 86.6 160.8

51 52.5 39.8 59.8

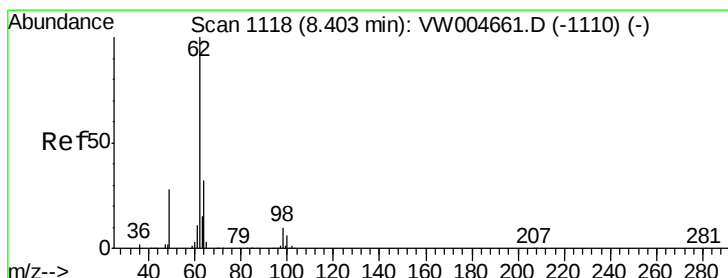
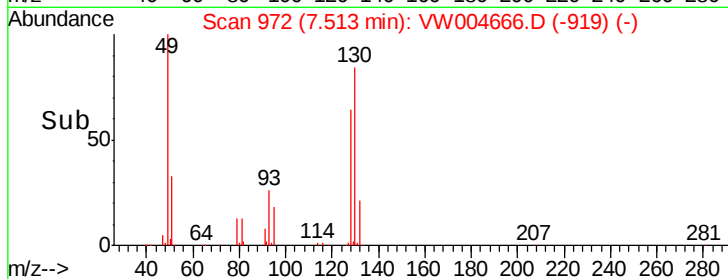
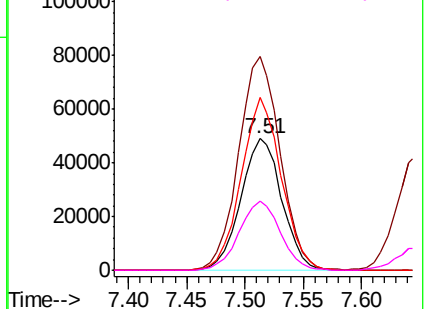


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#27

1,2-Dichloroethane

Concen: 10.15 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VW004666.D

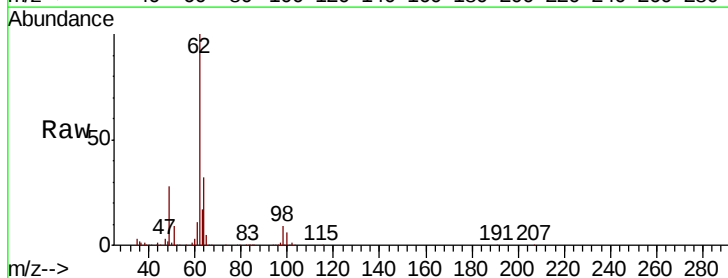
Acq: 14 Aug 2018 13:26

Tgt Ion: 62 Resp: 185947

Ion Ratio Lower Upper

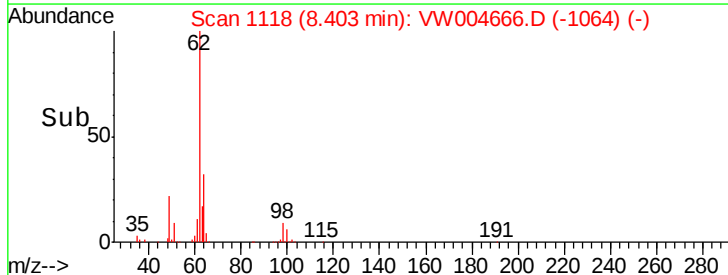
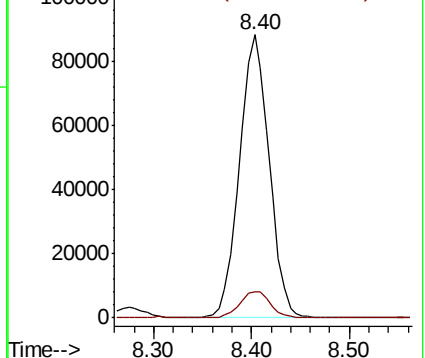
62 100

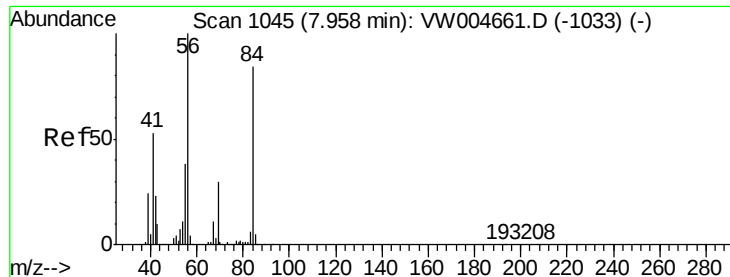
98 9.0 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

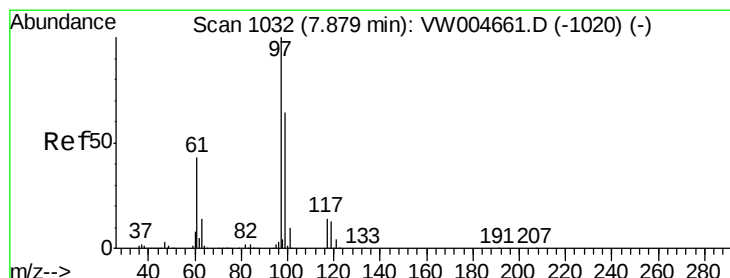
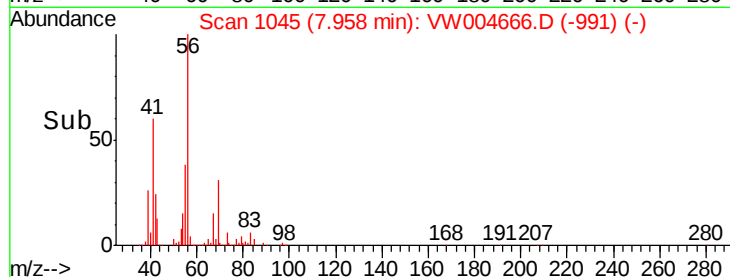
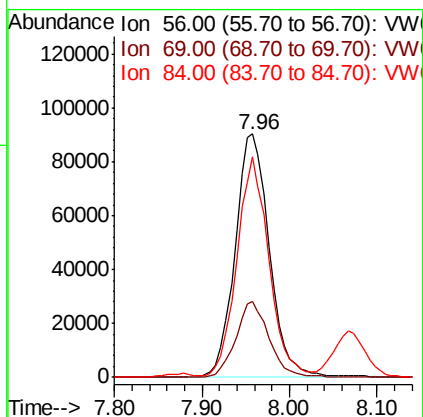
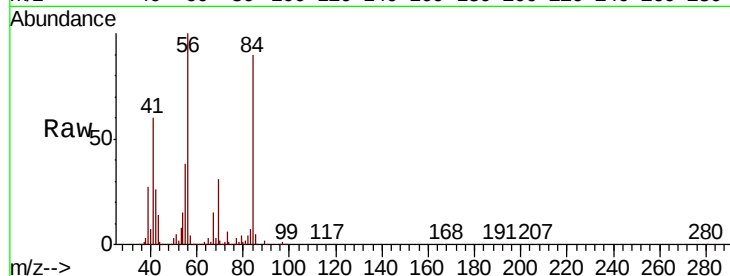




#30
Cyclohexane
Concen: 9.23 ug/L
RT: 7.96 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

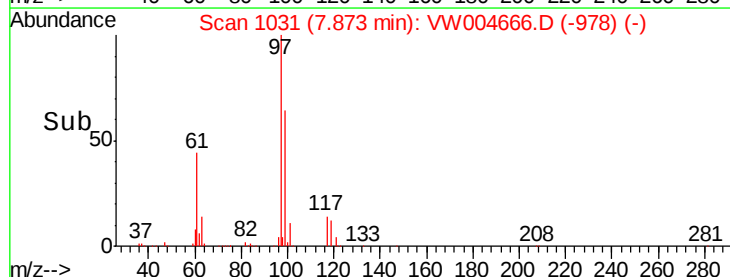
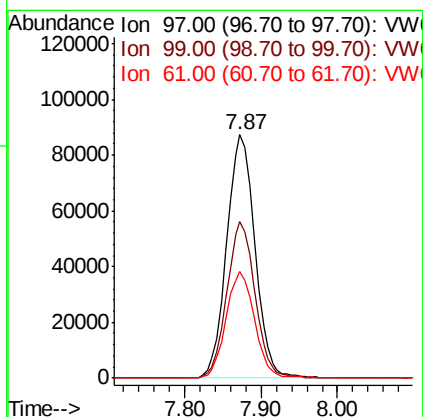
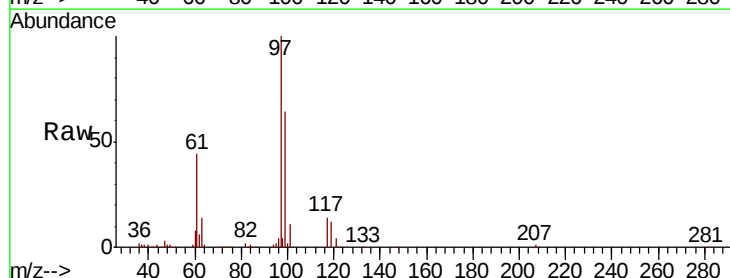
Instrument :
MSVOA_W
ClientSampleId :
GAB13

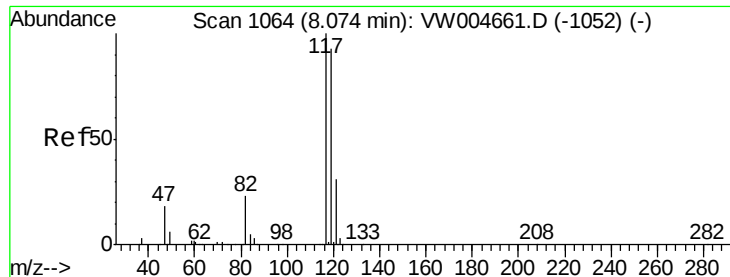
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.9	35.9
84	84.6	66.4	99.6



#31
1,1,1-Trichloroethane
Concen: 9.83 ug/L
RT: 7.87 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.3	76.9
61	44.0	35.6	53.4





#32

Carbon tetrachloride

Concen: 11.90 ug/L

RT: 8.07 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

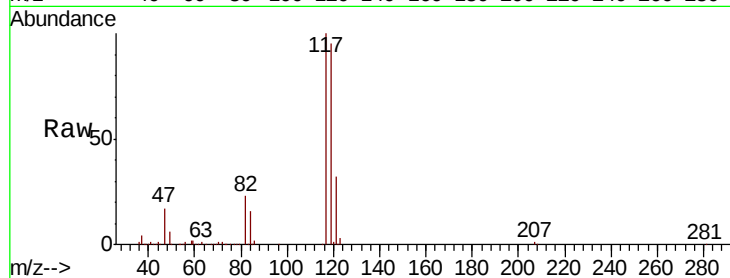
GAB13

Tot Ion:117 Resp: 257943

Ion Ratio Lower Upper

117 100

119 96.9 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

120000

100000

80000

60000

40000

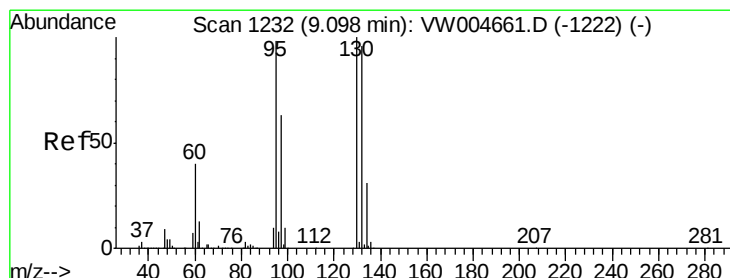
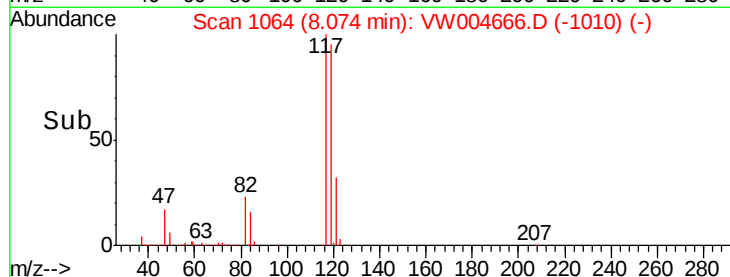
20000

0

8.07

8.00 8.10 8.20

Time-->



#35

Trichloroethene

Concen: 39.65 ug/L

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Tgt Ion: 95 Resp: 646926

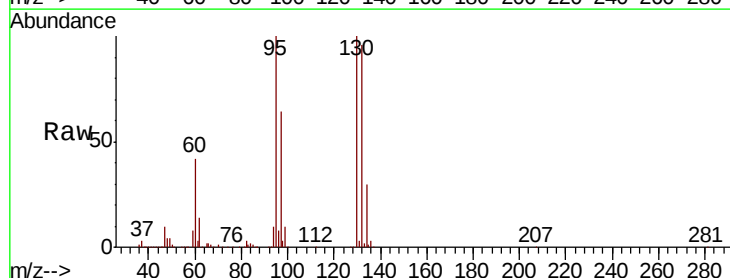
Ion Ratio Lower Upper

95 100

97 64.1 45.1 83.9

132 97.5 68.8 127.8

130 100.7 71.5 132.9



Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

500000

400000

300000

200000

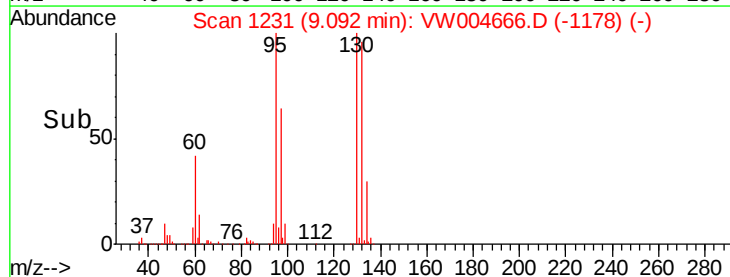
100000

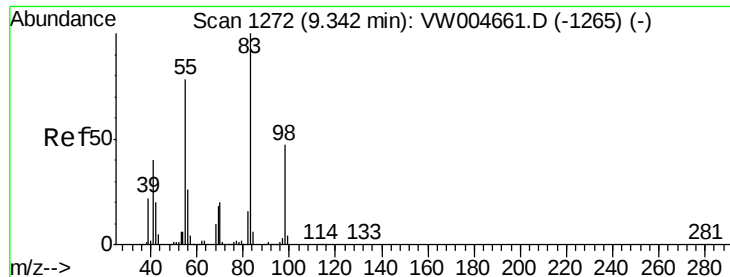
0

9.09

9.00 9.05 9.10 9.15 9.20

Time-->

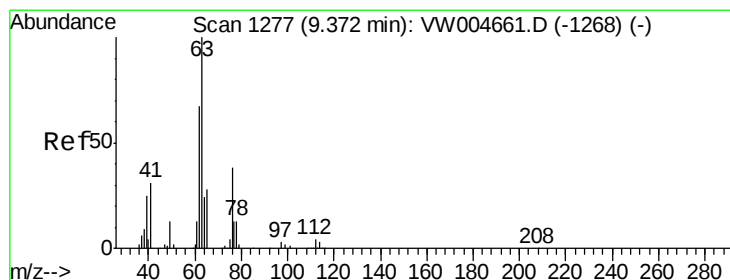
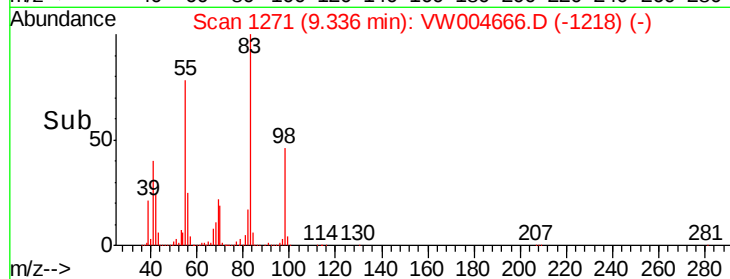
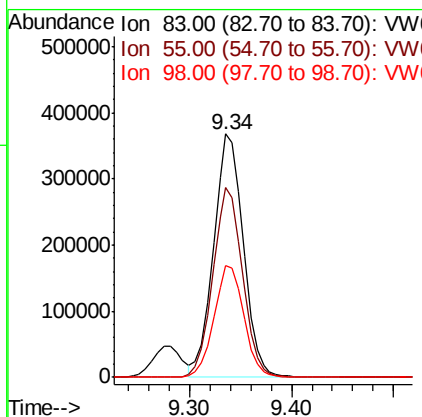
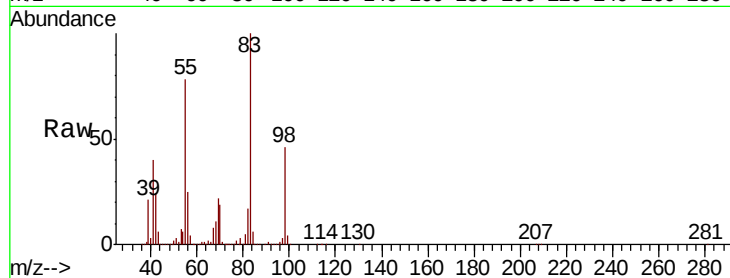




#36
Methylcyclohexane
Concen: 24.66 ug/L
RT: 9.34 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

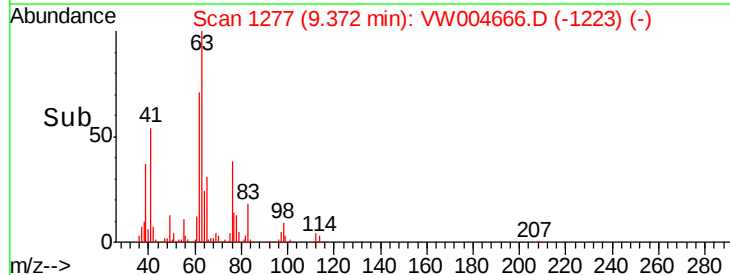
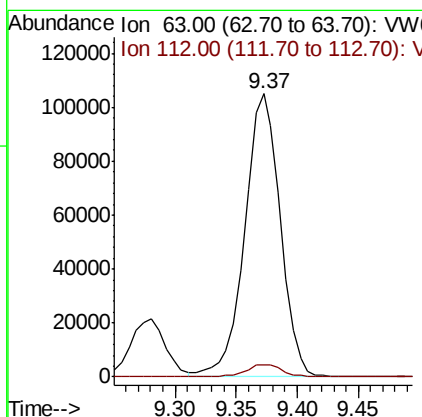
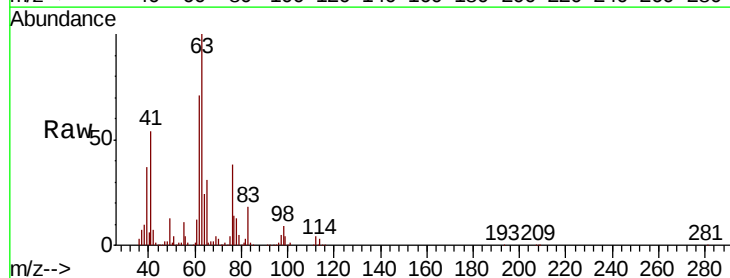
Instrument :
MSVOA_W
ClientSampleID :
GAB13

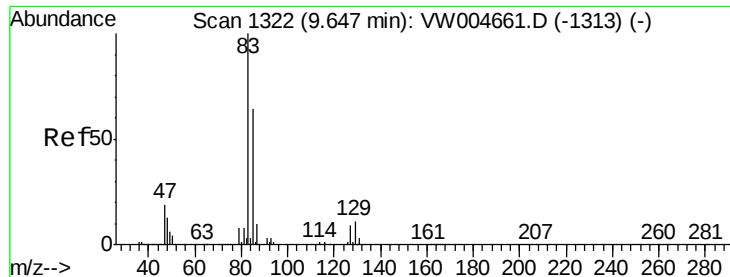
Tot Ion	83	Resp	750599
Ion Ratio	Lower	Upper	
83	100		
55	77.5	61.4	92.2
98	45.8	36.2	54.4



#40
1,2-Dichloropropane
Concen: 12.89 ug/L
RT: 9.37 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VW004666.D
Acq: 14 Aug 2018 13:26

Tgt Ion	63	Resp	212107
Ion Ratio	Lower	Upper	
63	100		
112	4.4	3.4	5.0





#41

Bromodichloromethane

Concen: 20.08 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

GAB13

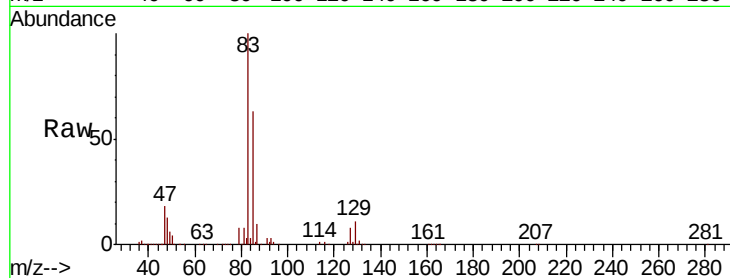
Tot Ion: 83 Resp: 385939

Ion Ratio Lower Upper

83 100

85 63.0 44.9 83.5

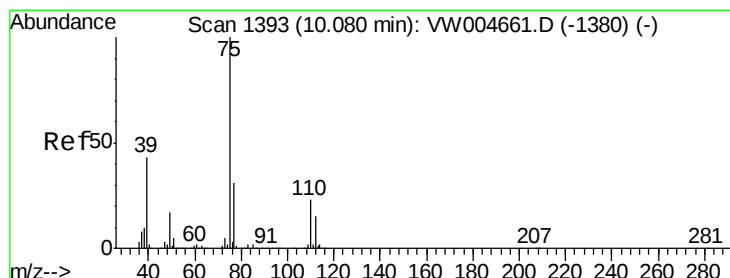
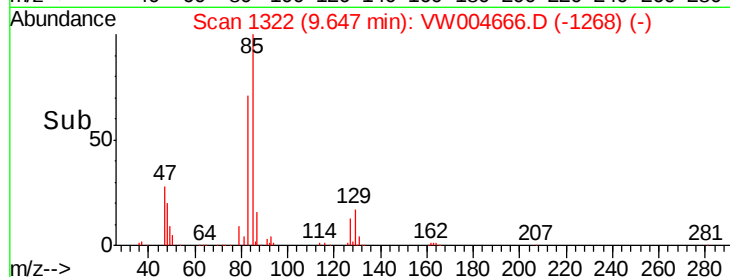
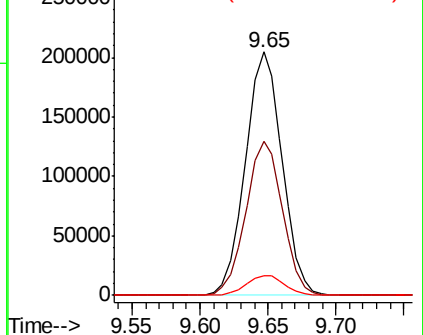
127 8.2 7.0 10.6



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 17.61 ug/L

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW004666.D

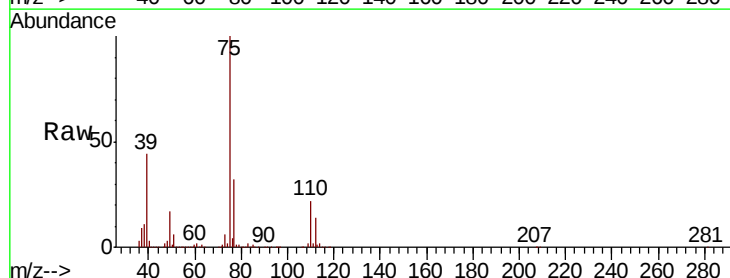
Acq: 14 Aug 2018 13:26

Tgt Ion: 75 Resp: 403282

Ion Ratio Lower Upper

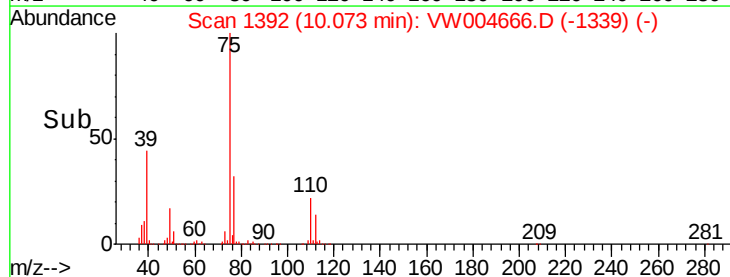
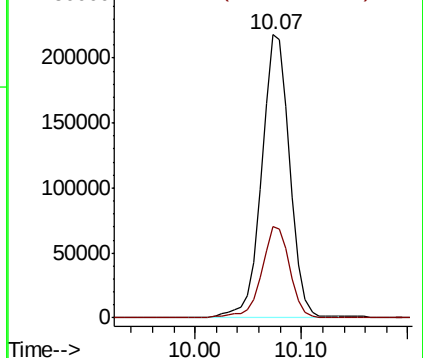
75 100

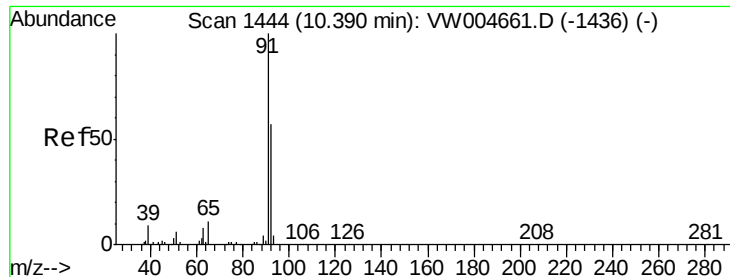
77 32.1 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#44

Toluene

Concen: 20.77 ug/L

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampled :

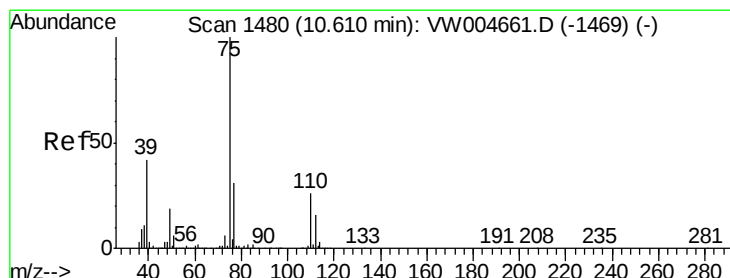
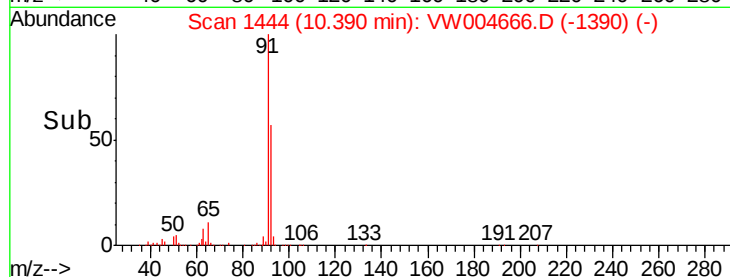
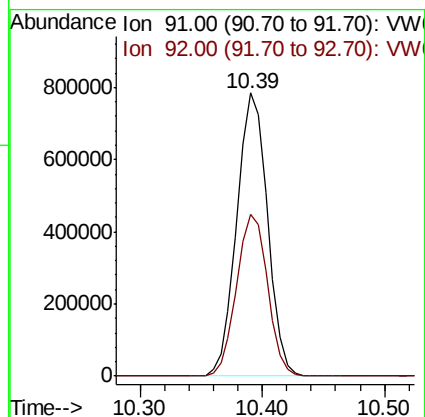
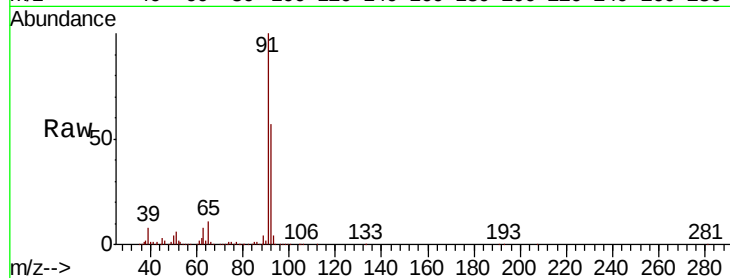
GAB13

Tot Ion: 91 Resp: 1363320

Ion Ratio Lower Upper

91 100

92 57.3 40.3 74.8



#45

trans-1,3-Dichloropropene

Concen: 8.22 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW004666.D

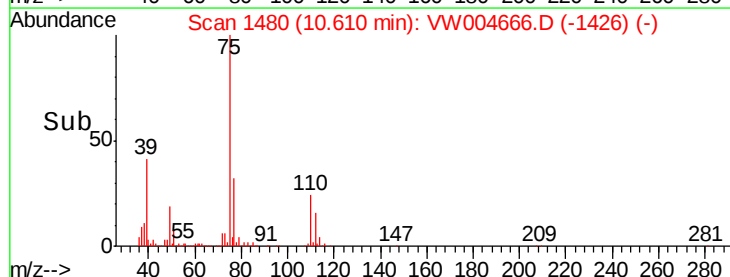
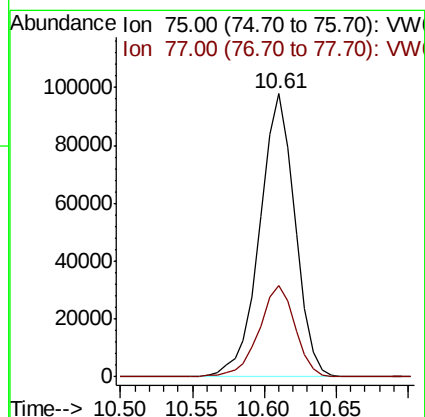
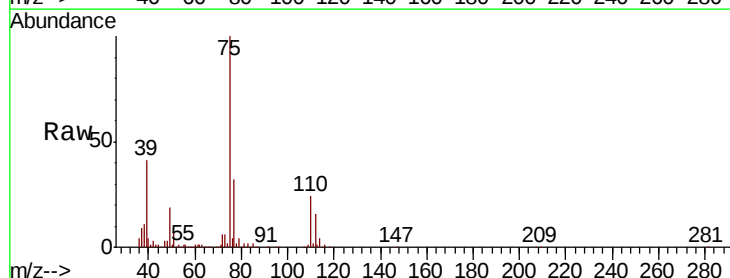
Acq: 14 Aug 2018 13:26

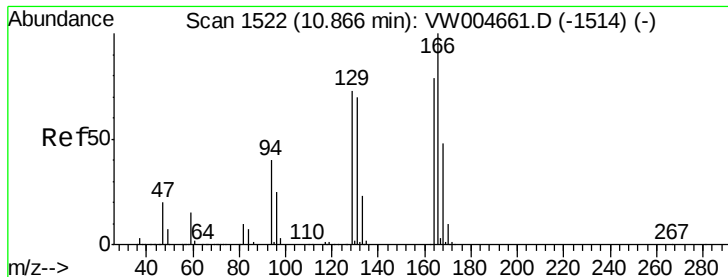
Tgt Ion: 75 Resp: 166009

Ion Ratio Lower Upper

75 100

77 32.2 21.8 40.6





#47

Tetrachloroethene

Concen: 37.68 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

GAB13

Tot Ion:164 Resp: 510083

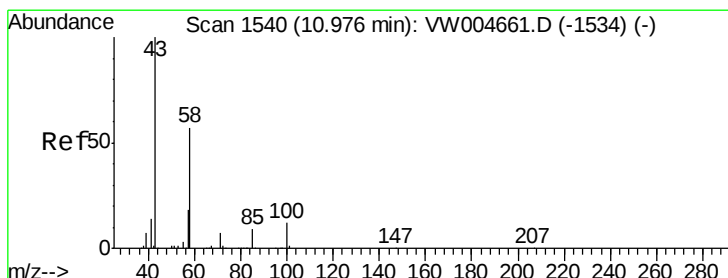
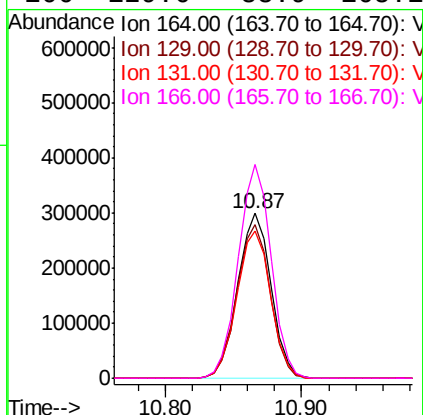
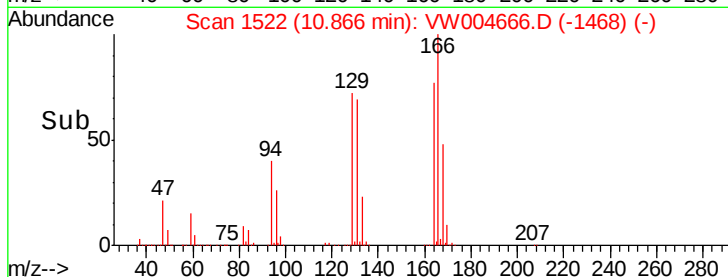
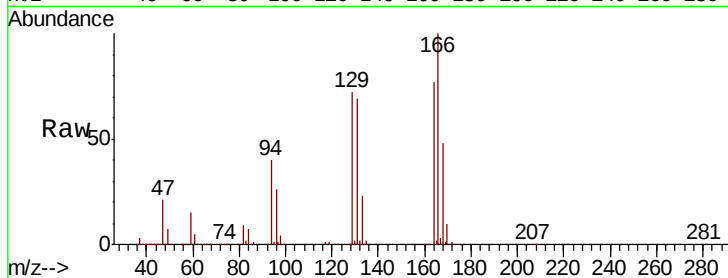
Ion Ratio Lower Upper

164 100

129 93.2 65.0 120.6

131 89.6 62.2 115.4

166 129.6 88.9 165.1



#49

2-Hexanone

Concen: 43.41 ug/L

RT: 10.98 min Scan# 1540

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Tgt Ion: 43 Resp: 344423

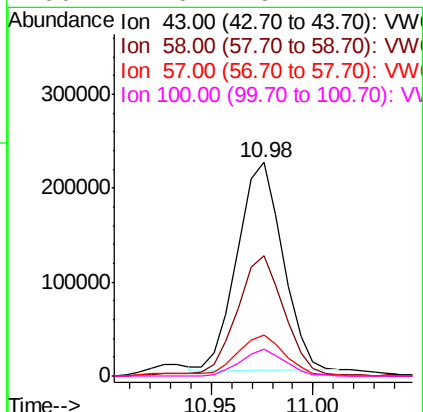
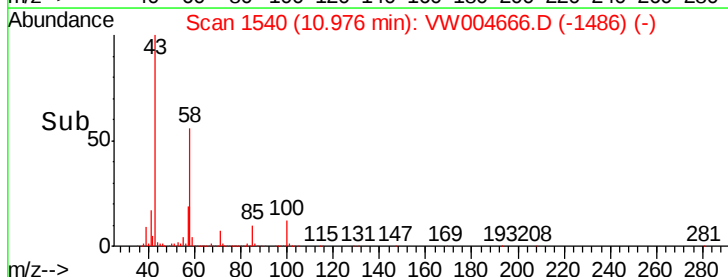
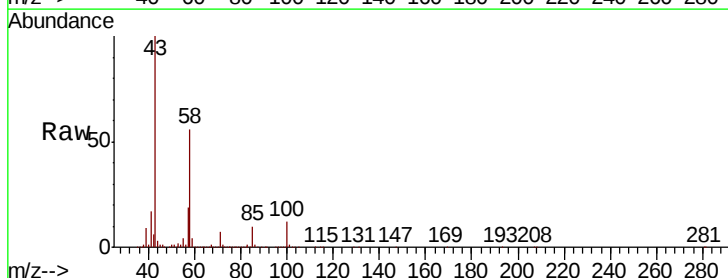
Ion Ratio Lower Upper

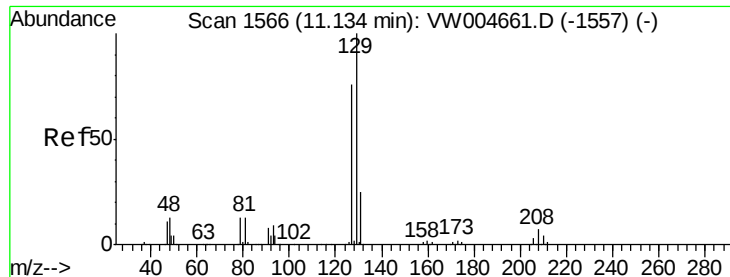
43 100

58 59.9 44.4 66.6

57 21.0 14.8 22.2

100 12.6 9.4 14.2





#50

Dibromochloromethane

Concen: 19.94 ug/L

RT: 11.13 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

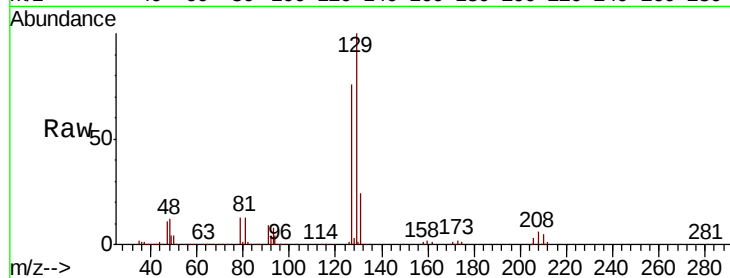
GAB13

Tot Ion:129 Resp: 278888

Ion Ratio Lower Upper

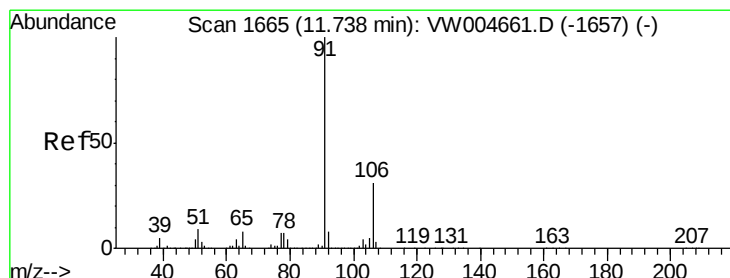
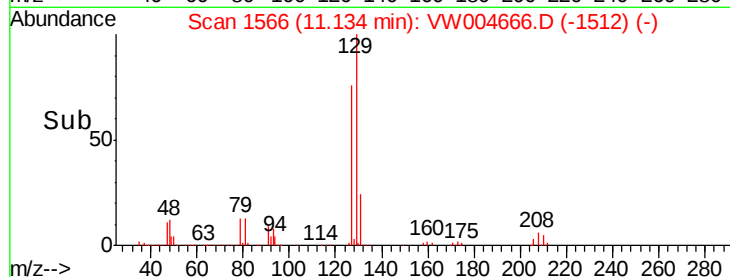
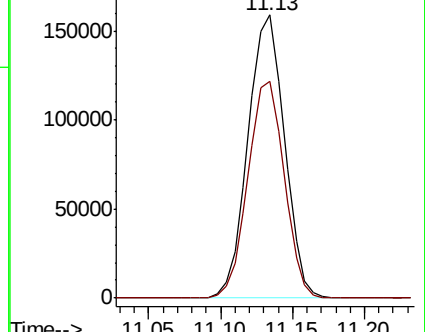
129 100

127 76.4 53.3 98.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#53

Ethylbenzene

Concen: 14.87 ug/L

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW004666.D

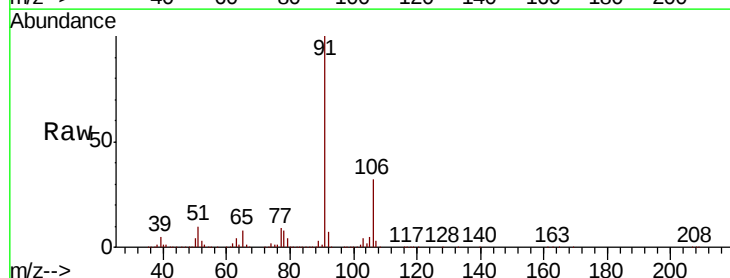
Acq: 14 Aug 2018 13:26

Tgt Ion: 91 Resp: 1087523

Ion Ratio Lower Upper

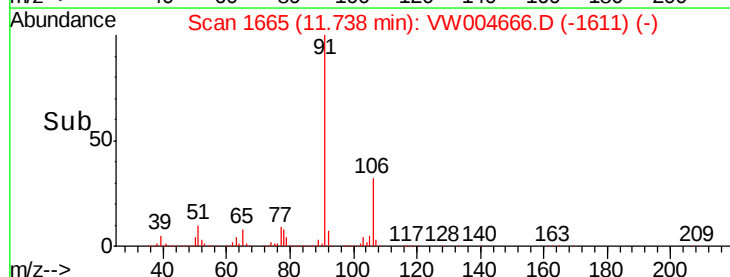
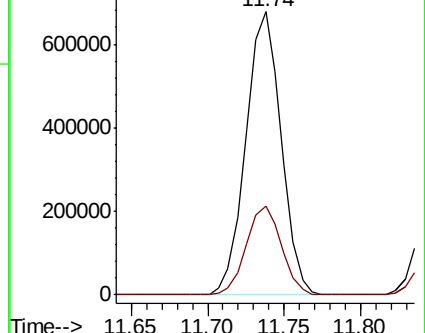
91 100

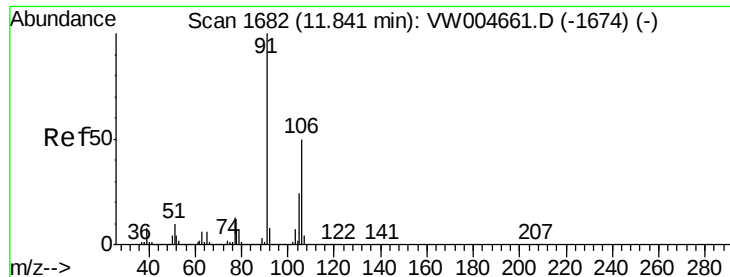
106 31.6 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 9.89 ug/L

RT: 11.85 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

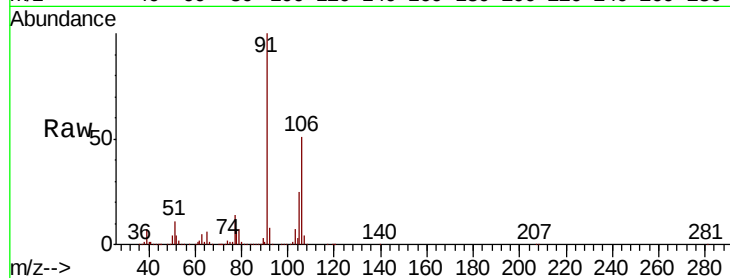
GAB13

Tot Ion:106 Resp: 274936

Ion Ratio Lower Upper

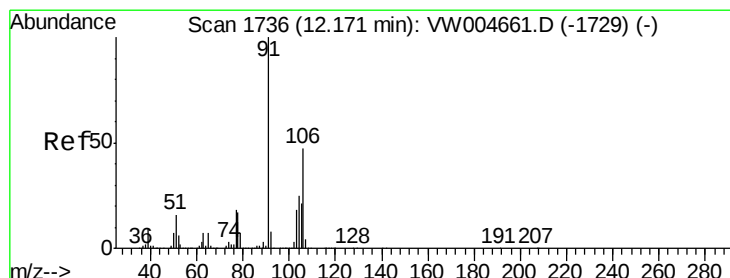
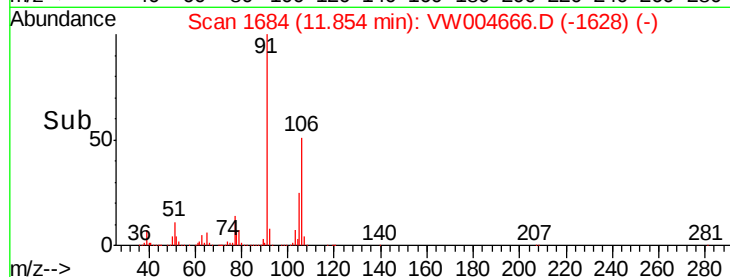
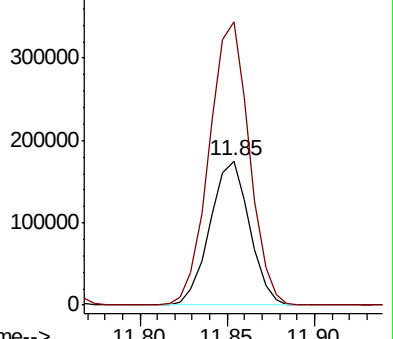
106 100

91 196.1 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 12.25 ug/L

RT: 12.17 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VW004666.D

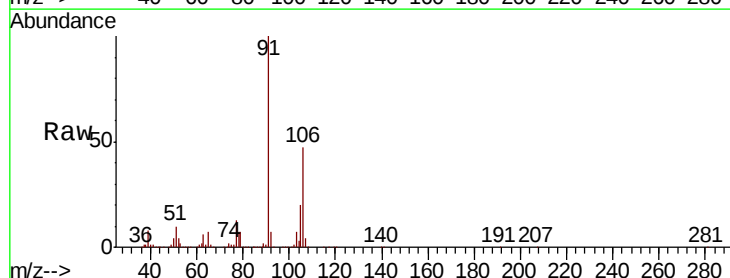
Acq: 14 Aug 2018 13:26

Tgt Ion:106 Resp: 321698

Ion Ratio Lower Upper

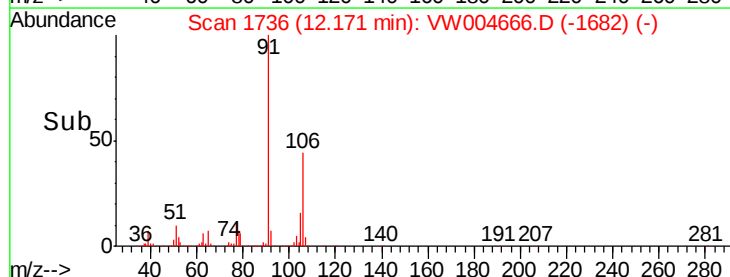
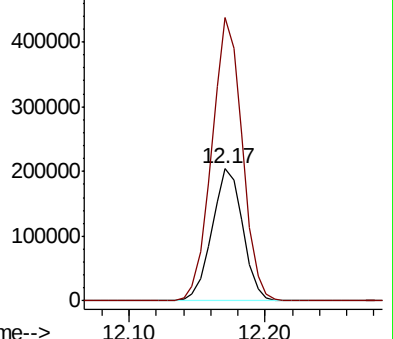
106 100

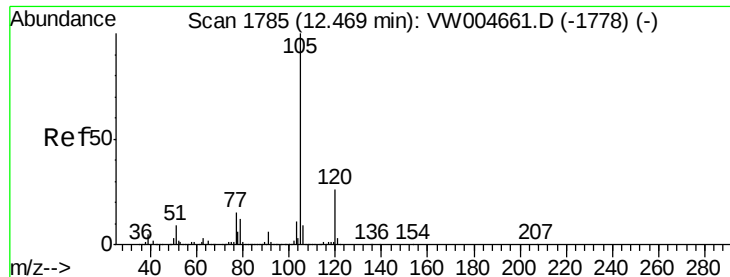
91 214.2 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 12.17 ug/L

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

Instrument :

MSVOA_W

ClientSampleId :

GAB13

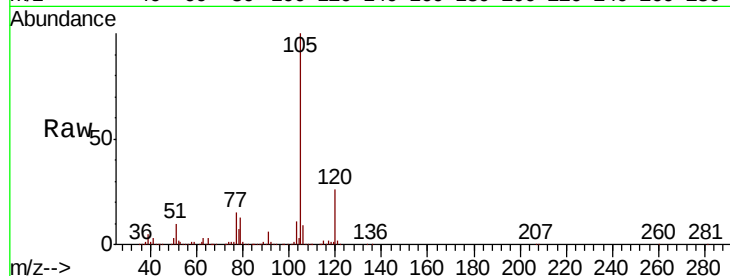
Tot Ion:105 Resp: 865400

Ion Ratio Lower Upper

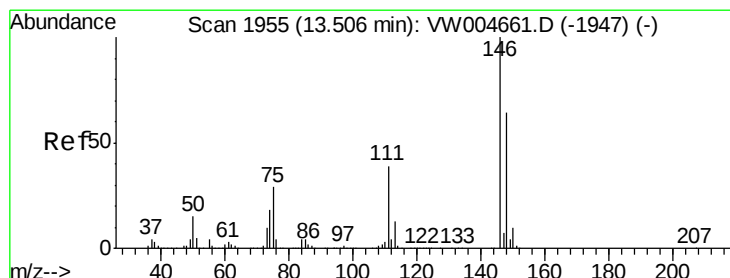
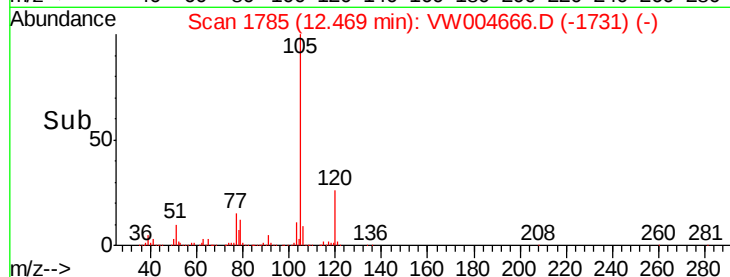
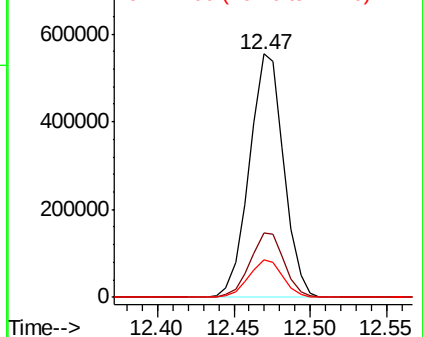
105 100

120 26.3 21.2 31.8

77 15.3 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#63

1,3-Dichlorobenzene

Concen: 19.81 ug/L

RT: 13.51 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW004666.D

Acq: 14 Aug 2018 13:26

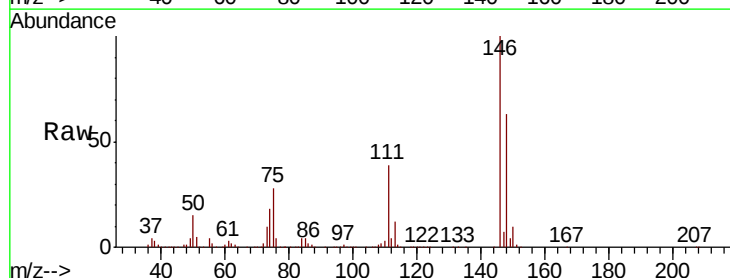
Tgt Ion:146 Resp: 654240

Ion Ratio Lower Upper

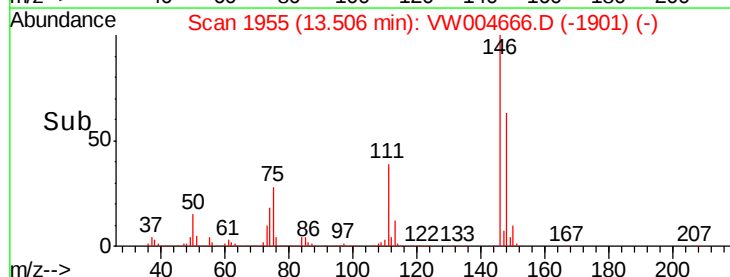
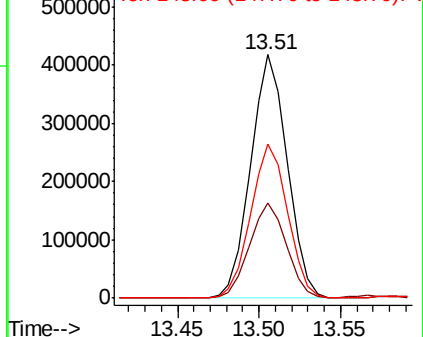
146 100

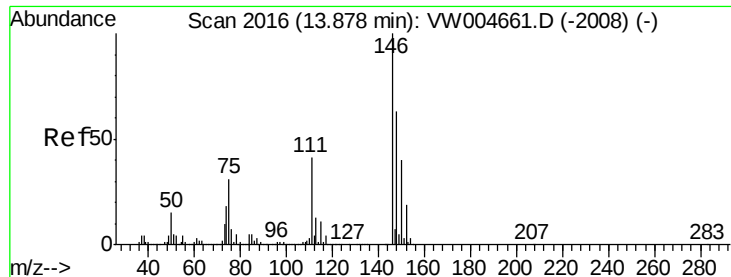
111 39.2 27.5 51.1

148 63.1 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

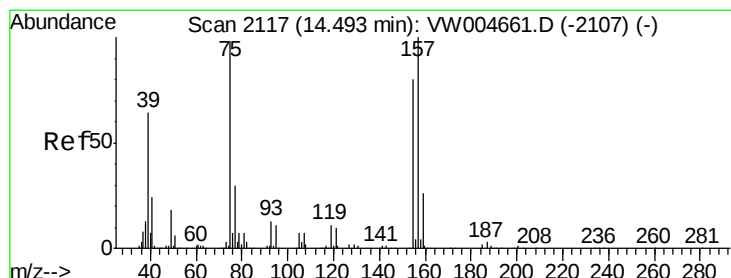
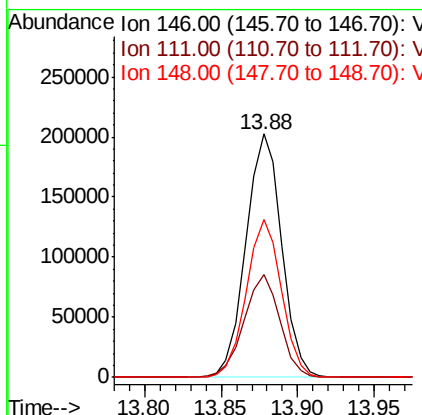
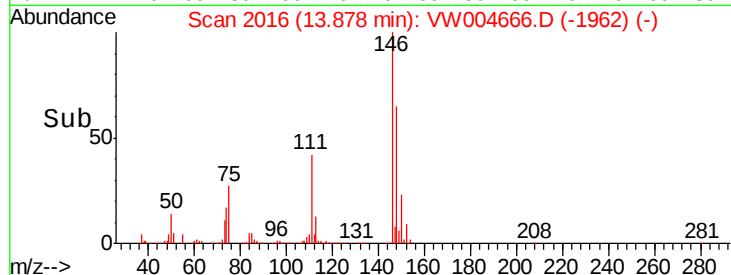
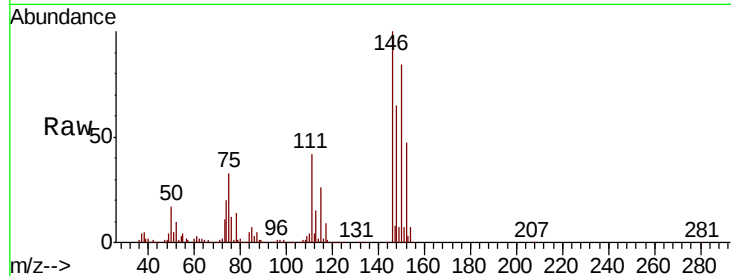




#65
 1,2-Dichlorobenzene
 Concen: 10.07 ug/L
 RT: 13.88 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VW004666.D
 Acq: 14 Aug 2018 13:26

Instrument :
 MSVOA_W
 ClientSampleId :
 GAB13

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	32.9	49.3
148	65.0	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 19.62 ug/L
 RT: 14.49 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VW004666.D
 Acq: 14 Aug 2018 13:26

Tgt Ion	Ratio	Lower	Upper
75	100		
157	102.0	81.8	122.8
155	81.4	65.4	98.0

