

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092320\
 Data File : VW016616.D
 Acq On : 22 Sep 2020 17:29
 Operator : SY/VA
 Sample : L4109-06
 Misc : 6.05G/10ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X5

Quant Time: Sep 23 07:30:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 23 07:21:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	668070	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	599895	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	280730	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	161514	24.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.92%
7) Chloroethane-d5	2.90	69	139947	26.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	106.04%
10) 1,1-Dichloroethene-d2	4.03	63	263714	18.24	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	72.96%
20) 2-Butanone-d5	7.08	46	74589	42.31	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.62%
24) Chloroform-d	7.65	84	363130	25.98	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.92%
26) 1,2-Dichloroethane-d4	8.31	65	183035	25.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.04%
29) Benzene-d6	8.28	84	707207	26.29	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.16%
33) 1,2-Dichloropropane-d6	9.28	67	193993	26.61	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.44%
37) Toluene-d8	10.33	98	691811	26.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.56%
38) trans-1,3-Dichloropropene-	10.58	79	84116	22.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.56%
39) 2-Hexanone-d5	10.93	63	59194	44.64	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.28%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	140402	22.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.52%
61) 1,2-Dichlorobenzene-d4	13.85	152	250500	27.93	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	111.72%

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	4.06	96	13177	1.557 ug/L #	1
13) Acetone	4.12	43	7269	5.263 ug/L	51
16) Methylene chloride	4.93	84	60182	5.841 ug/L	98
19) 1,1-Dichloroethane	6.22	63	4196	0.303 ug/L	97
22) cis-1,2-Dichloroethene	7.18	96	99509	10.944 ug/L	99
30) Cyclohexane	7.96	56	9123	0.696 ug/L #	91
31) 1,1,1-Trichloroethane	7.88	97	283500	20.235 ug/L	100
32) Carbon tetrachloride	7.88	117	36805	2.704 ug/L	99
42) cis-1,3-Dichloropropene	10.04	75	7257	0.568 ug/L #	76
44) Toluene	10.39	91	2418887	66.902 ug/L	98
45) trans-1,3-Dichloropropene	10.58	75	4260	0.383 ug/L #	81
53) Ethylbenzene	11.73	91	70965	1.729 ug/L	96
54) m,p-Xylene	11.84	106	176377	10.973 ug/L	94
55) o-xylene	12.17	106	61125	3.969 ug/L	96
57) Isopropylbenzene	12.47	105	34597	0.822 ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	5456	0.299 ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	12787	0.715 ug/L	94

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Quant Title : VOC Analysis
QLast Update : Wed Sep 23 07:21:48 2020
Response via : Initial Calibration

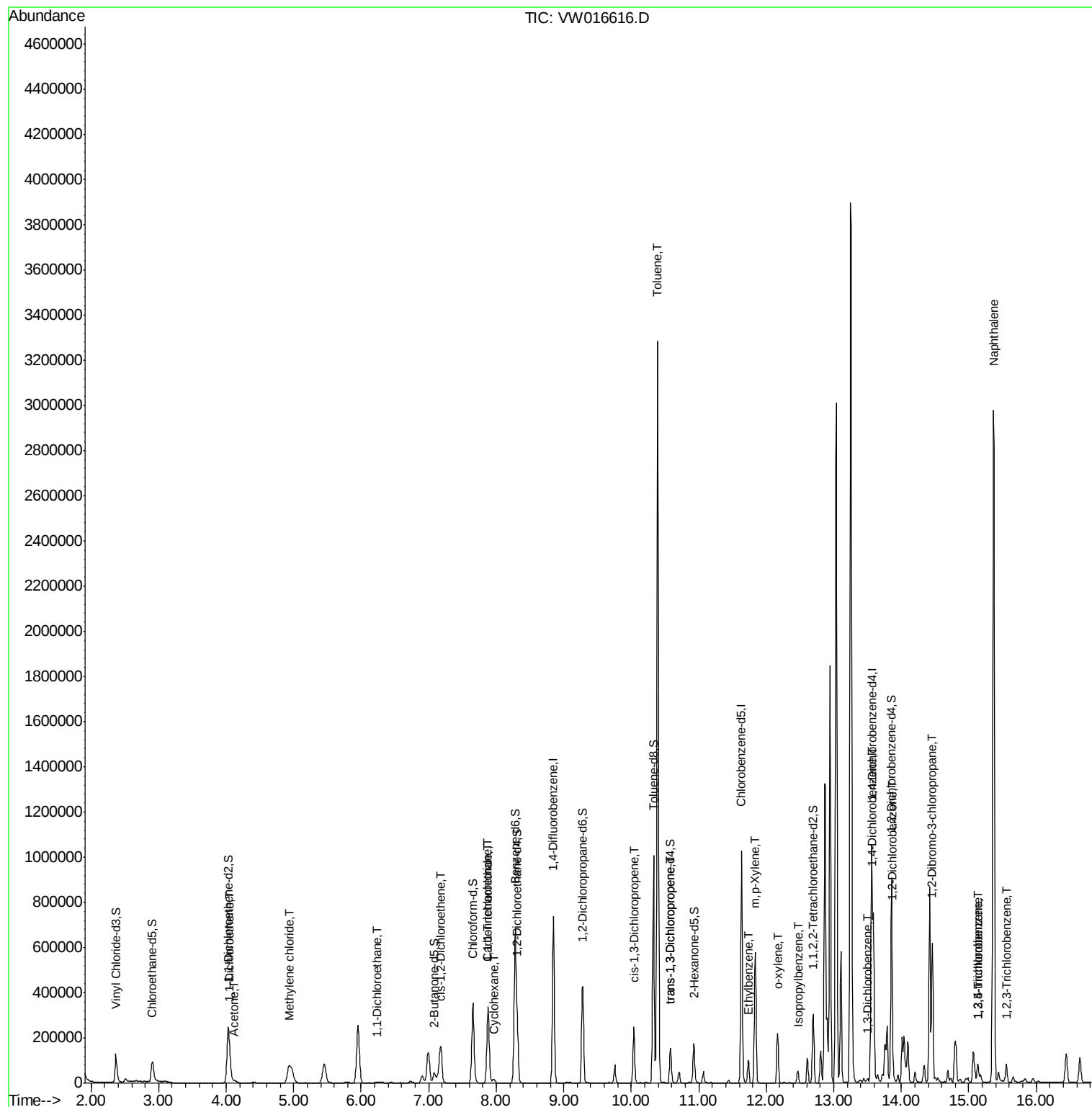
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	13.87	146	11908	0.730	ug/L	89
66) 1,2-Dibromo-3-chloropropan	14.46	75	2532	2.165	ug/L #	1
67) 1,3,5-Trichlorobenzene	15.13	180	27199	2.037	ug/L	96
68) 1,2,4-trichlorobenzene	15.13	180	27199	2.518	ug/L	96
69) Naphthalene	15.36	128	2625381	137.093	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	27455	2.955	ug/L	93

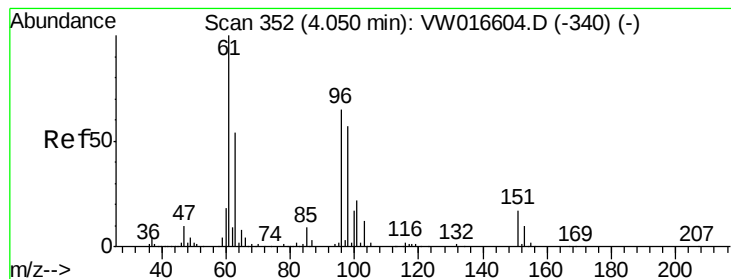
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092320\
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Quant Title : VOC Analysis
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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 1.557 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleID :

BG3X5

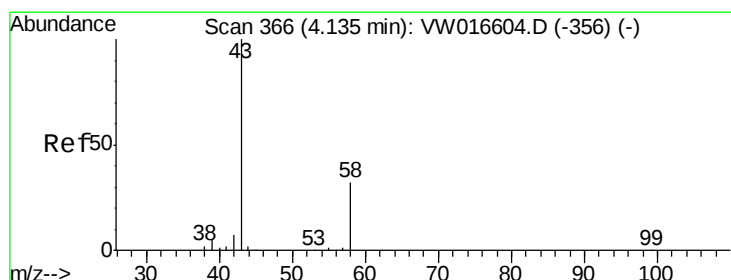
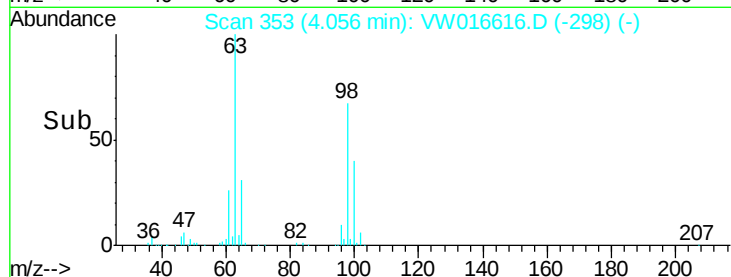
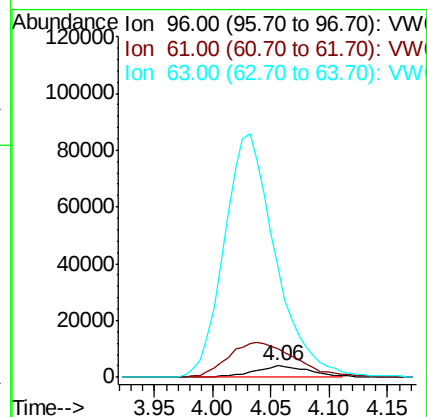
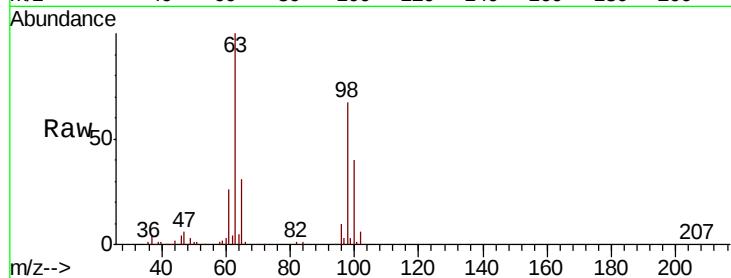
Tot Ion: 96 Resp: 13177

Ion Ratio Lower Upper

96 100

61 250.7 111.4 206.8#

63 965.6 73.0 135.6#



#13

Acetone

Concen: 5.263 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW016616.D

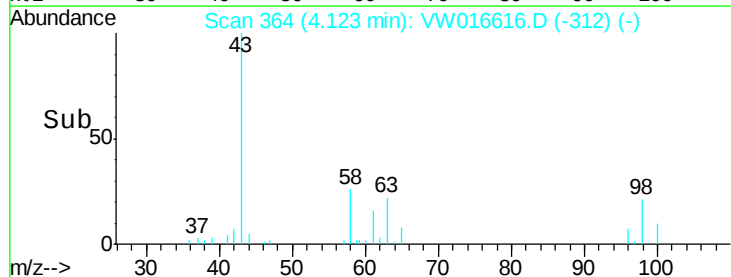
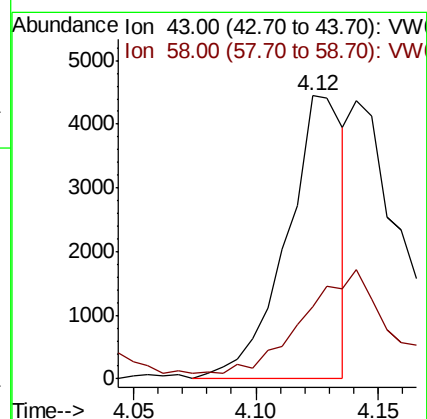
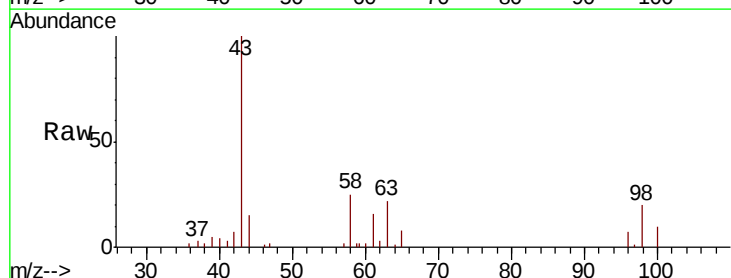
Acq: 22 Sep 2020 17:29

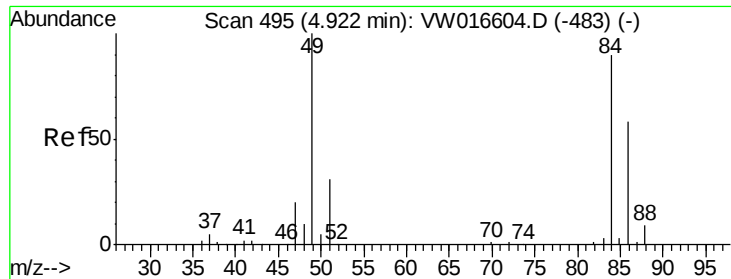
Tgt Ion: 43 Resp: 7269

Ion Ratio Lower Upper

43 100

58 56.7 0.0 60.2

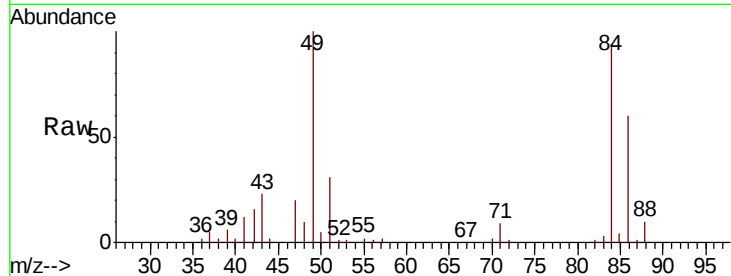




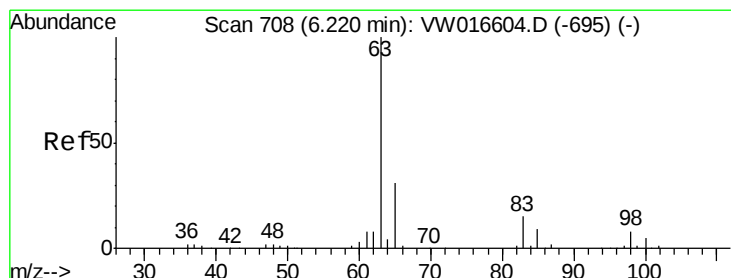
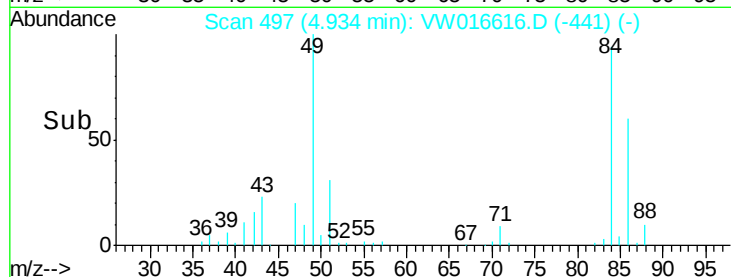
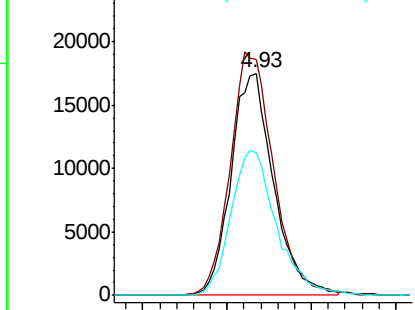
#16
Methvlene chloride
Concen: 5.841 ug/L
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW016616.D
Acq: 22 Sep 2020 17:29

Instrument :
MSVOA_W
ClientSampleId :
BG3X5

Tot Ion: 84 Resp: 60182
Ion Ratio Lower Upper
84 100
49 106.3 76.0 141.2
86 63.9 45.6 84.6

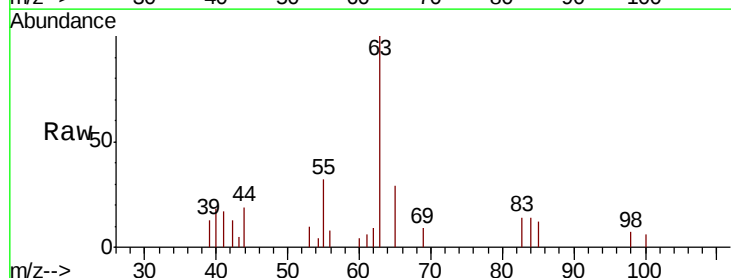


Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 49.00 (48.70 to 49.70): VW
Ion 86.00 (85.70 to 86.70): VW

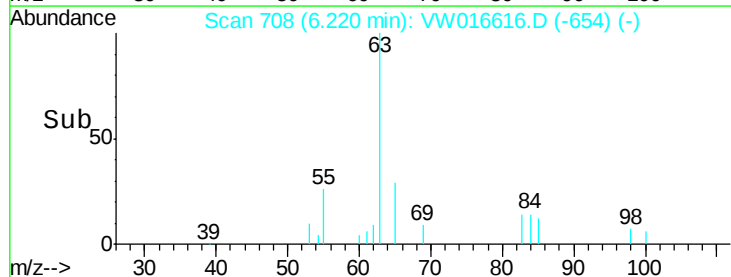
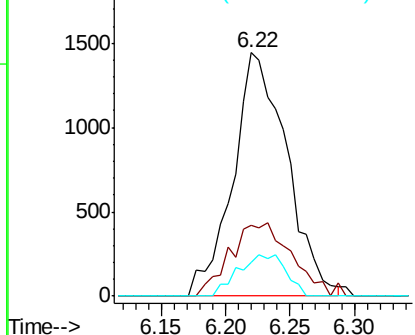


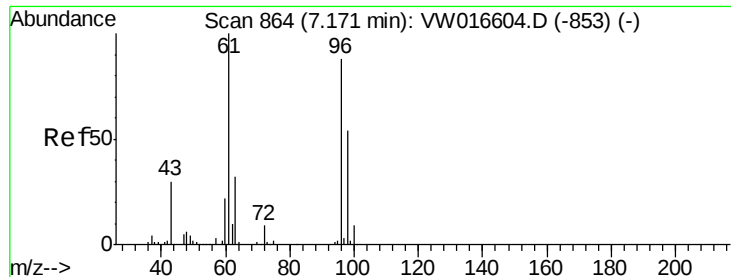
#19
1,1-Dichloroethane
Concen: 0.303 ug/L
RT: 6.22 min Scan# 708
Delta R.T. -0.00 min
Lab File: VW016616.D
Acq: 22 Sep 2020 17:29

Tgt Ion: 63 Resp: 4196
Ion Ratio Lower Upper
63 100
65 29.1 21.6 40.0
83 14.0 10.4 19.2



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 65.00 (64.70 to 65.70): VW
Ion 83.00 (82.70 to 83.70): VW



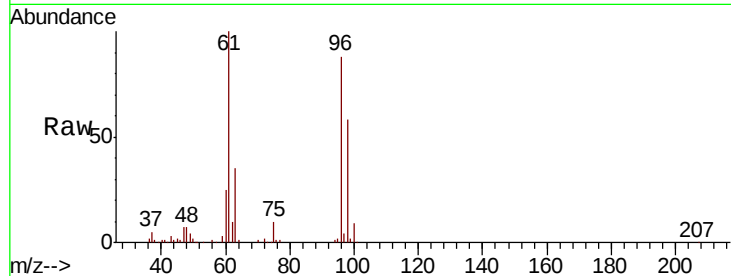


#22

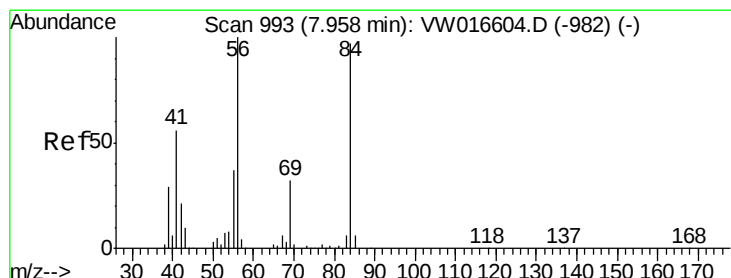
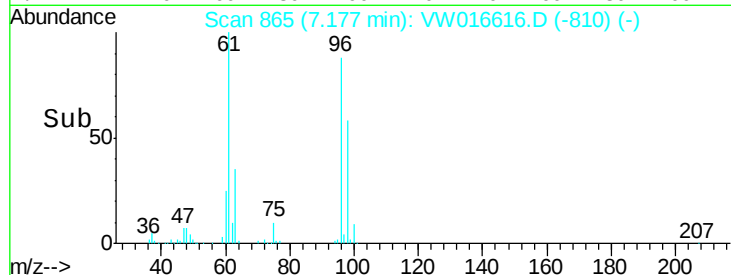
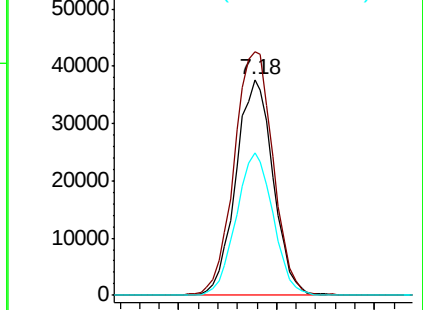
cis-1,2-Dichloroethene
 Concen: 10.944 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW016616.D
 Acq: 22 Sep 2020 17:29

Instrument :
 MSVOA_W
 ClientSampled :
 BG3X5

Tot Ion: 96 Resp: 99509
 Ion Ratio Lower Upper
 96 100
 61 113.0 78.4 145.6
 98 65.9 44.8 83.2



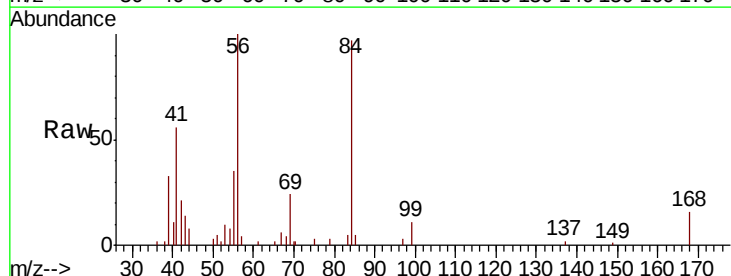
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



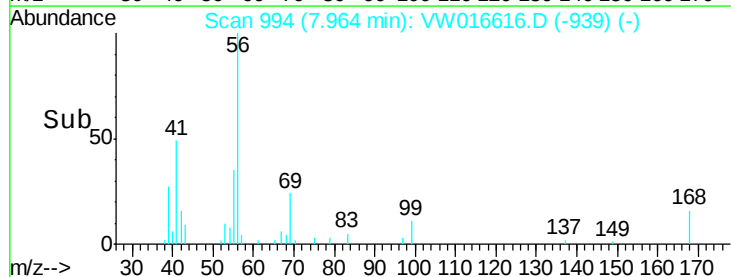
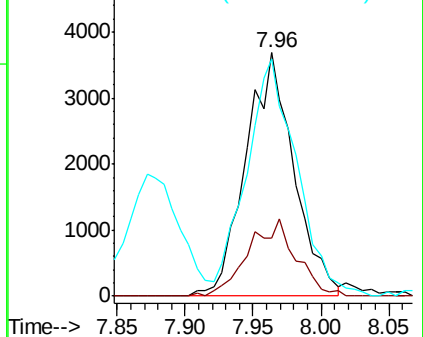
#30

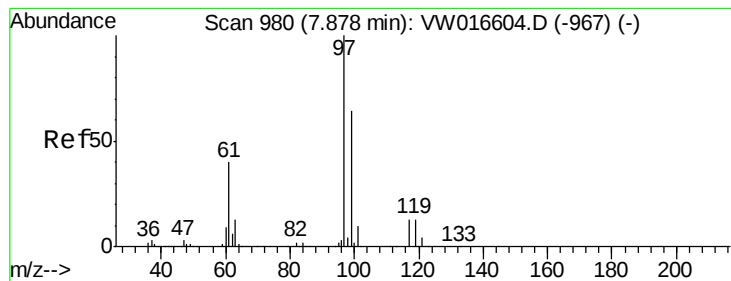
Cyclohexane
 Concen: 0.696 ug/L
 RT: 7.96 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VW016616.D
 Acq: 22 Sep 2020 17:29

Tgt Ion: 56 Resp: 9123
 Ion Ratio Lower Upper
 56 100
 69 17.1 26.5 39.7#
 84 101.9 79.0 118.6



Abundance Ion 56.00 (55.70 to 56.70): VW
 Ion 69.00 (68.70 to 69.70): VW
 Ion 84.00 (83.70 to 84.70): VW





#31

1,1,1-Trichloroethane

Concen: 20.235 ug/L

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleId :

BG3X5

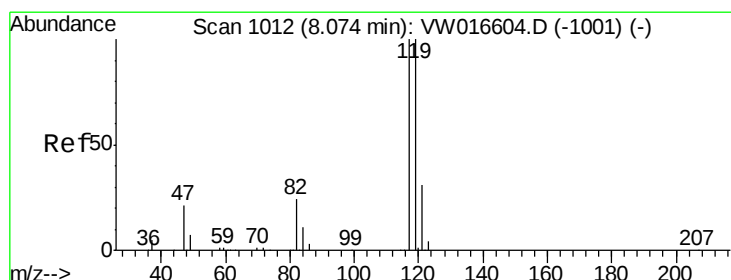
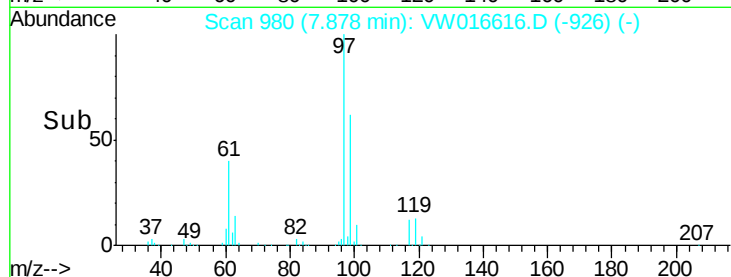
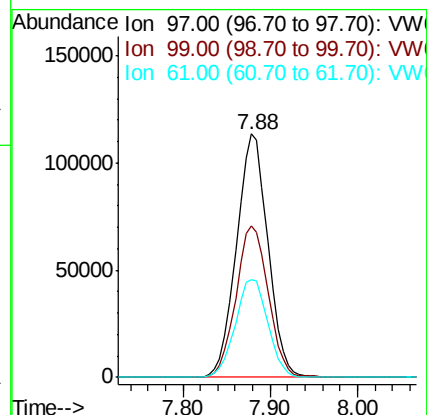
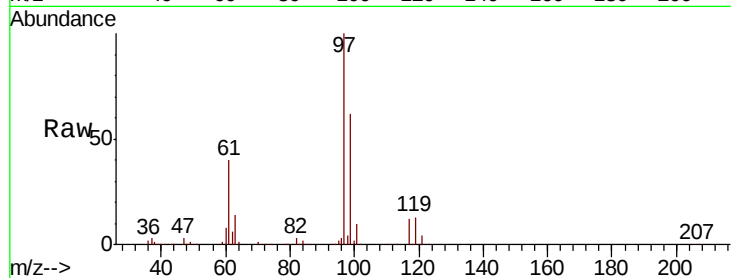
Tot Ion: 97 Resp: 283500

Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

61 41.8 33.6 50.4



#32

Carbon tetrachloride

Concen: 2.704 ug/L

RT: 7.88 min Scan# 981

Delta R.T. -0.19 min

Lab File: VW016616.D

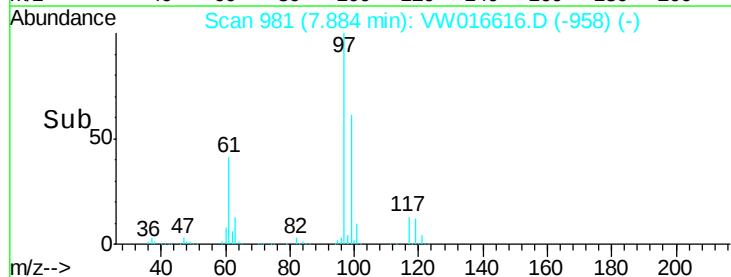
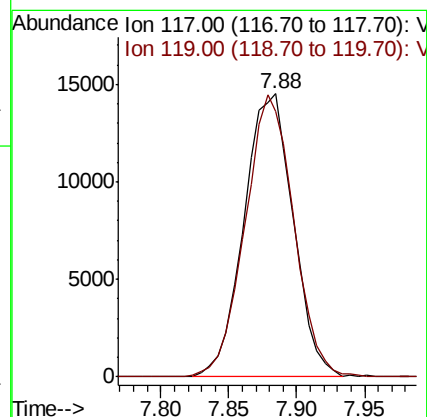
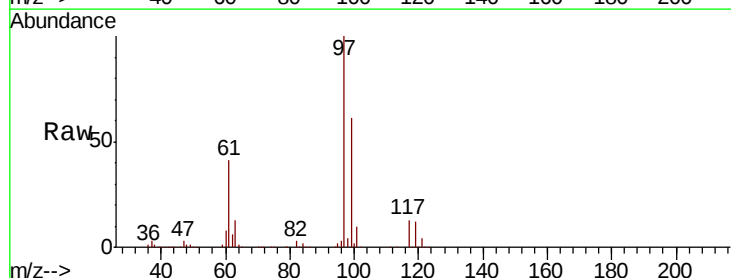
Acq: 22 Sep 2020 17:29

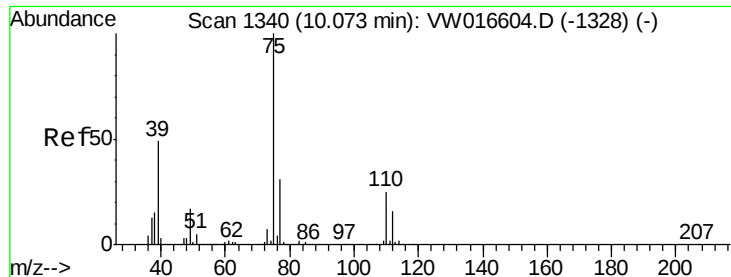
Tgt Ion: 117 Resp: 36805

Ion Ratio Lower Upper

117 100

119 98.5 78.2 117.4





#42

cis-1,3-Dichloropropene

Concen: 0.568 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampled :

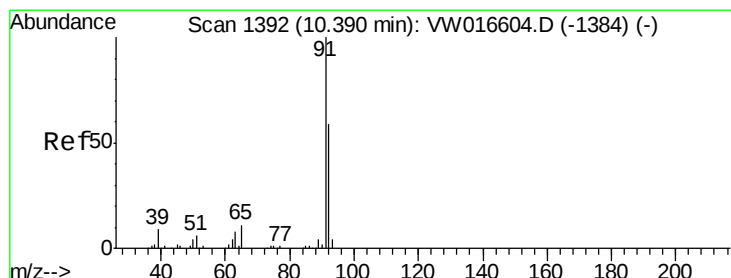
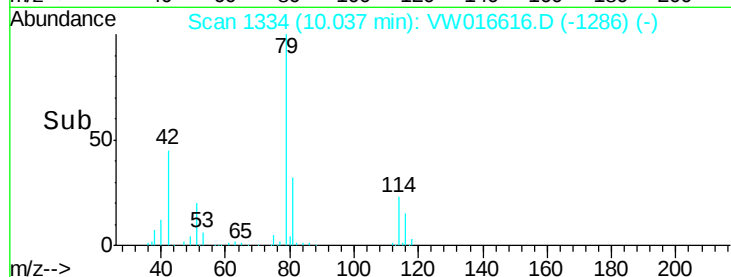
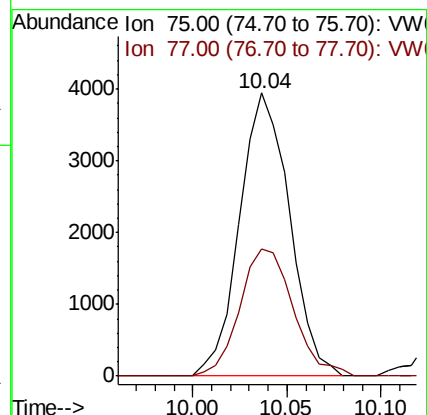
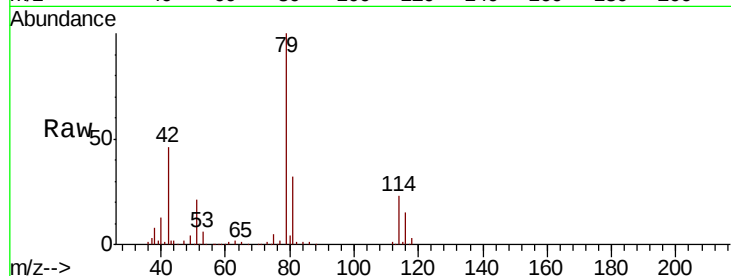
BG3X5

Tot Ion: 75 Resp: 7257

Ion Ratio Lower Upper

75 100

77 45.0 22.2 41.2#



#44

Toluene

Concen: 66.902 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016616.D

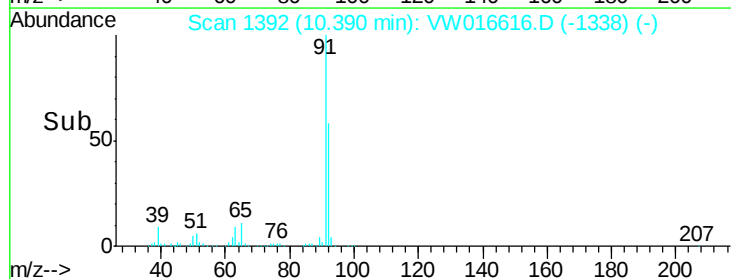
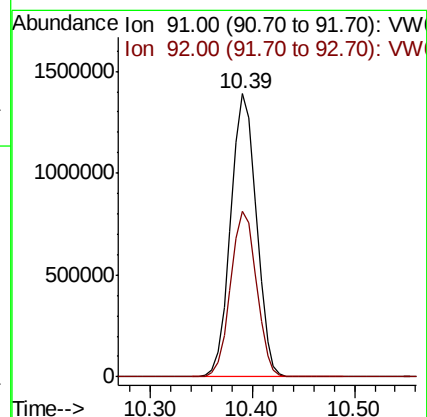
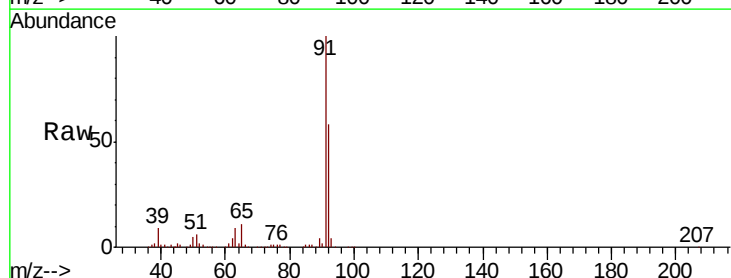
Acq: 22 Sep 2020 17:29

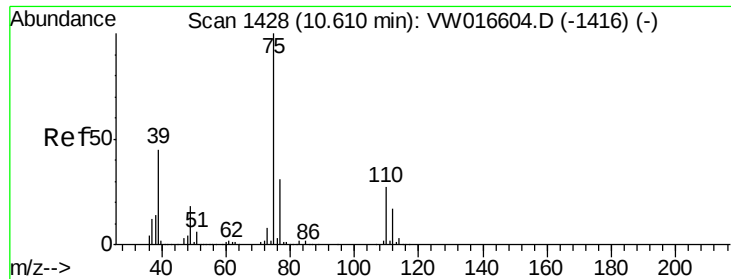
Tgt Ion: 91 Resp: 2418887

Ion Ratio Lower Upper

91 100

92 58.4 39.6 73.6





#45

trans-1,3-Dichloropropene

Concen: 0.383 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleId :

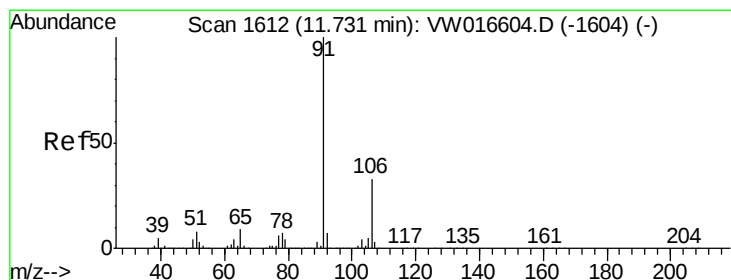
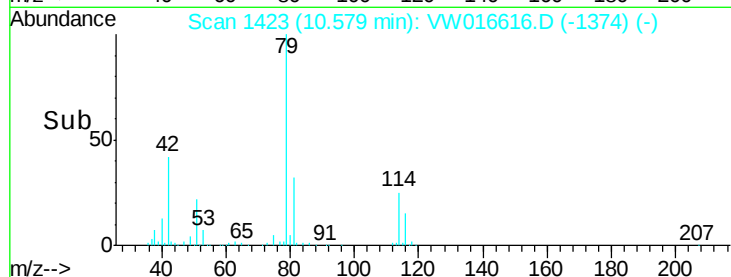
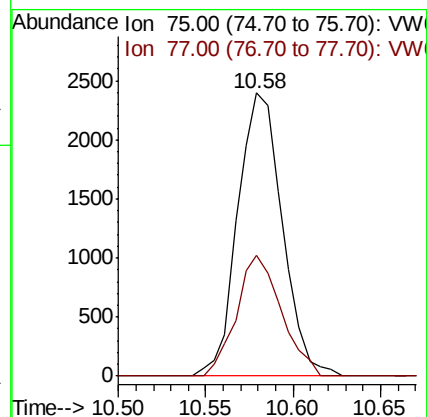
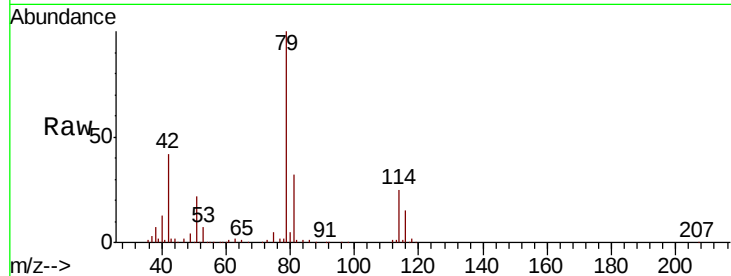
BG3X5

Tot Ion: 75 Resp: 4260

Ion Ratio Lower Upper

75 100

77 42.9 22.5 41.9#



#53

Ethylbenzene

Concen: 1.729 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW016616.D

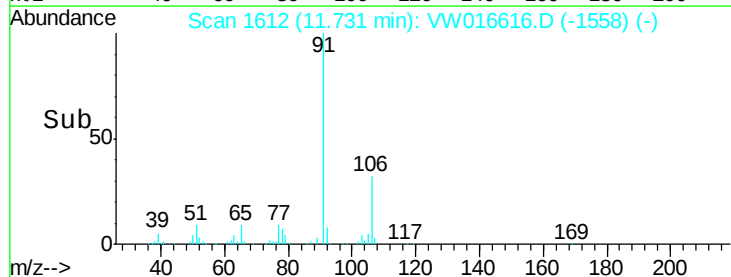
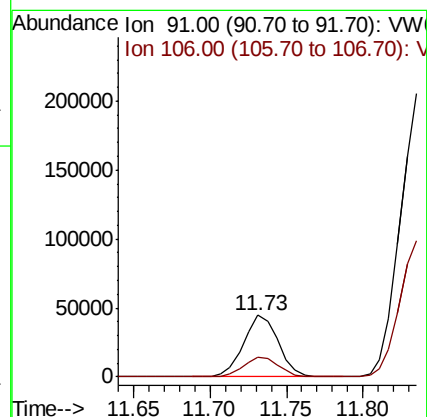
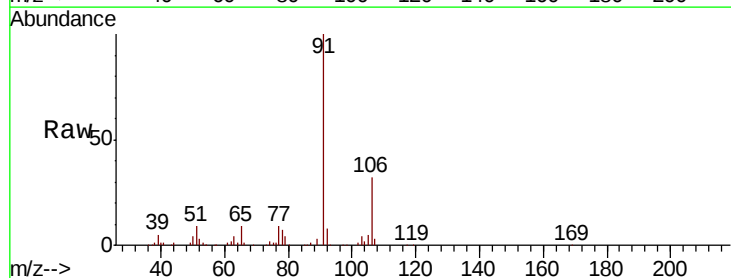
Acq: 22 Sep 2020 17:29

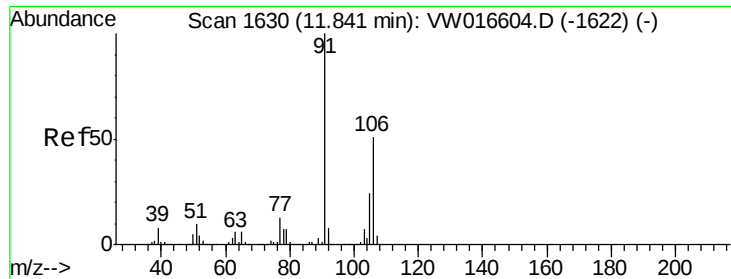
Tgt Ion: 91 Resp: 70965

Ion Ratio Lower Upper

91 100

106 31.9 20.7 38.5





#54

m,p-Xylene

Concen: 10.973 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleId :

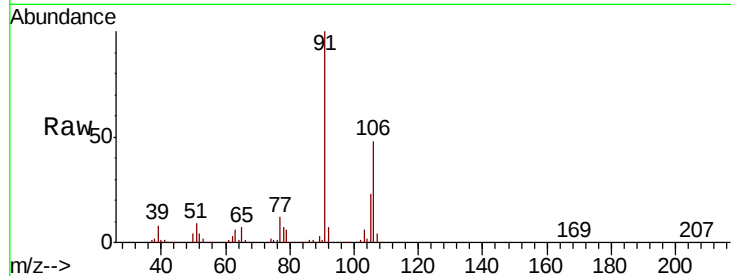
BG3X5

Tot Ion:106 Resp: 176377

Ion Ratio Lower Upper

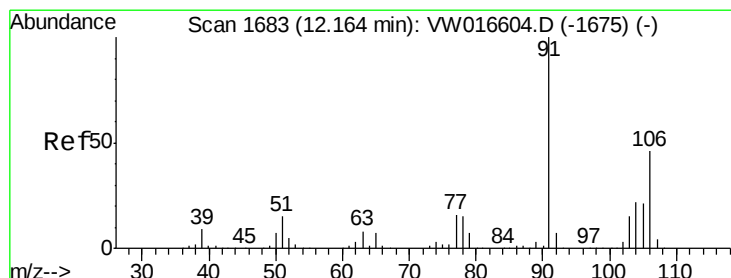
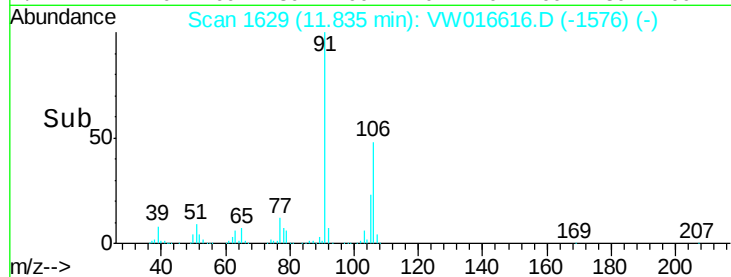
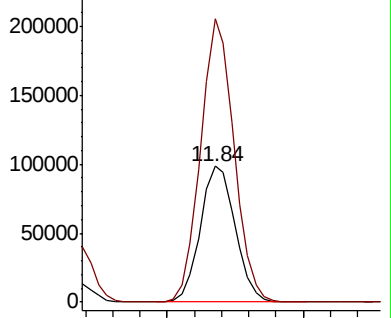
106 100

91 208.4 139.7 259.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 3.969 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW016616.D

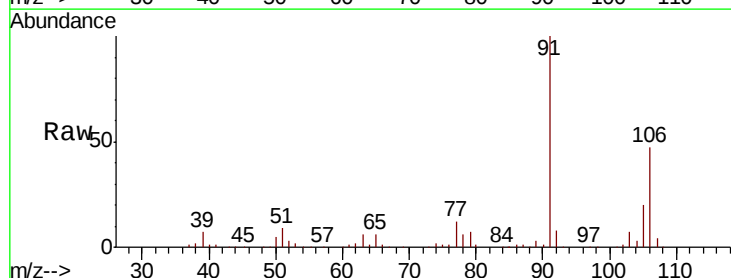
Acq: 22 Sep 2020 17:29

Tgt Ion:106 Resp: 61125

Ion Ratio Lower Upper

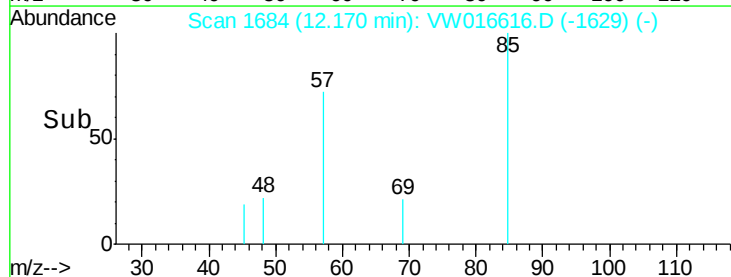
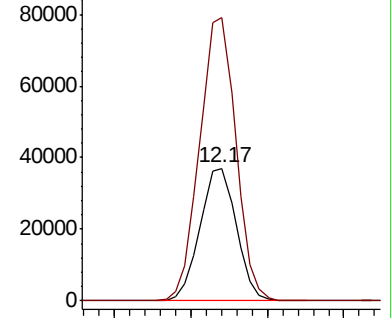
106 100

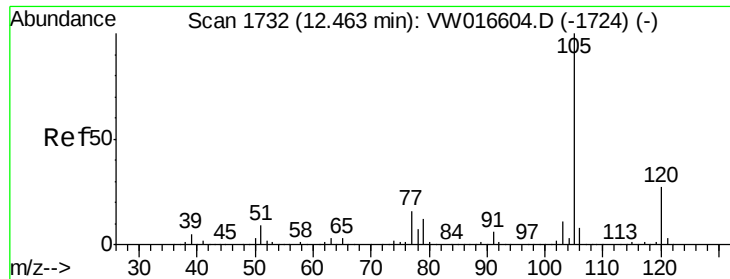
91 213.3 144.8 268.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 0.822 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleId :

BG3X5

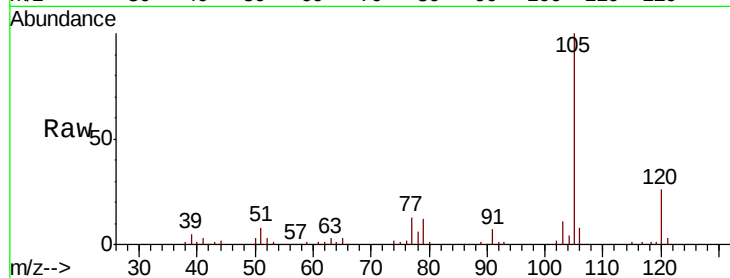
Tot Ion:105 Resp: 34597

Ion Ratio Lower Upper

105 100

120 28.1 21.8 32.8

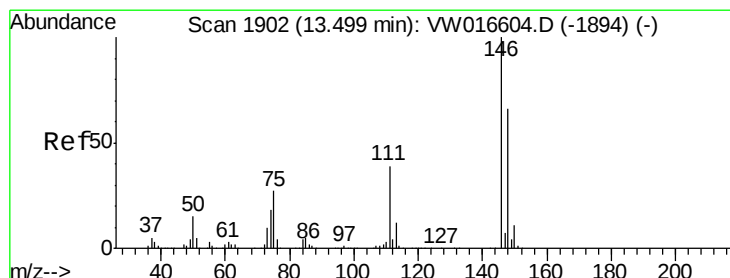
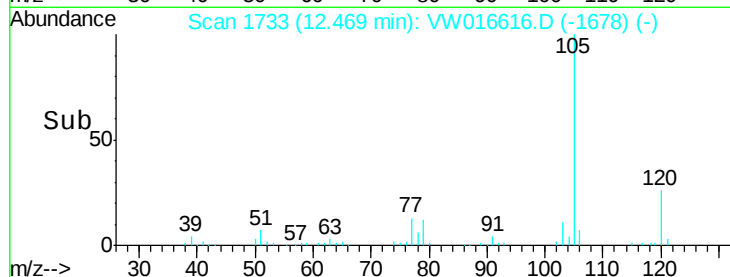
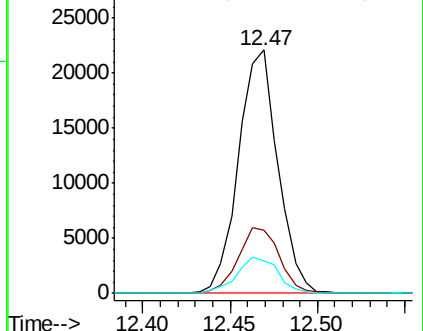
77 15.5 12.2 18.2



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: 0.299 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

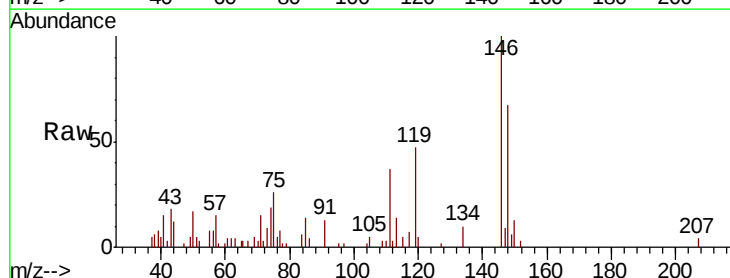
Tgt Ion:146 Resp: 5456

Ion Ratio Lower Upper

146 100

111 37.3 25.0 46.4

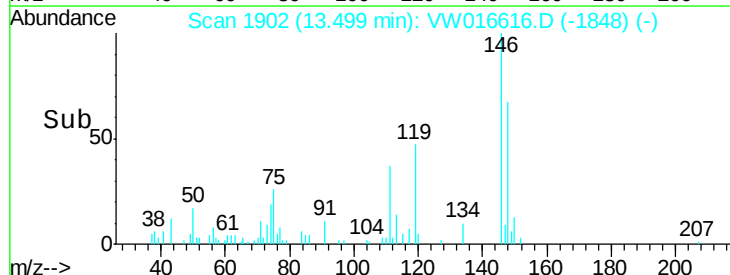
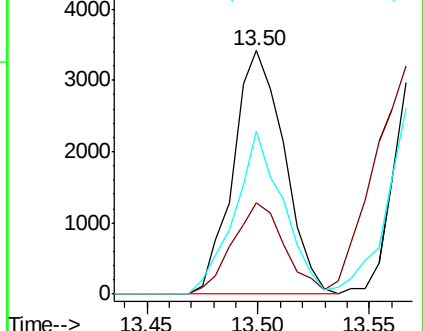
148 67.1 44.0 81.8

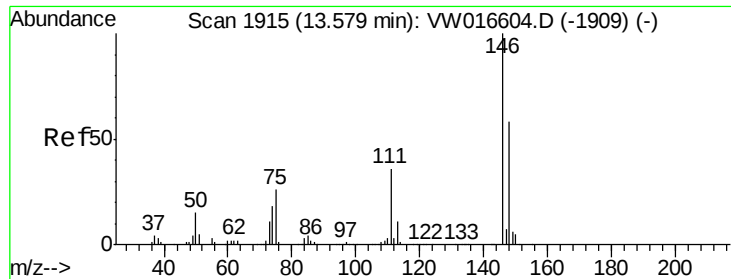


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 0.715 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampled :

BG3X5

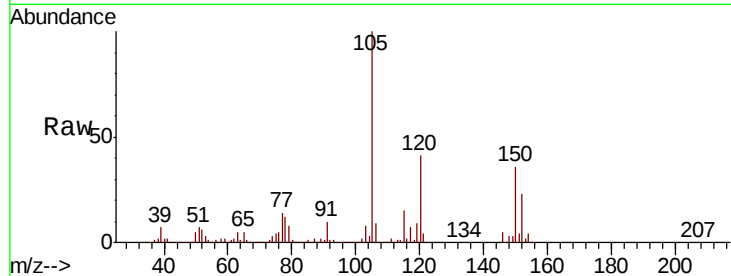
Tot Ion:146 Resp: 12787

Ion Ratio Lower Upper

146 100

111 41.9 25.1 46.5

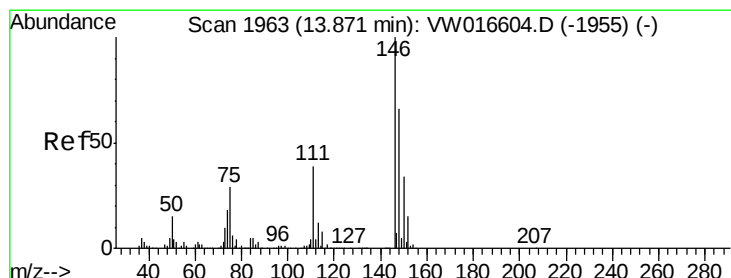
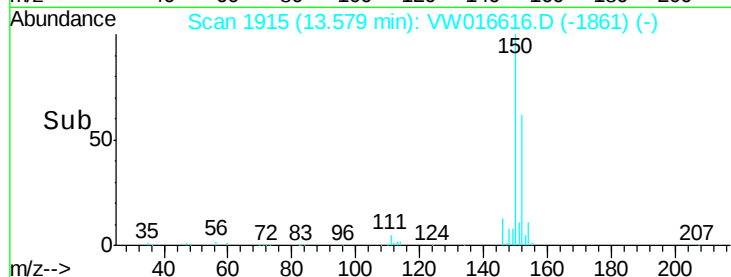
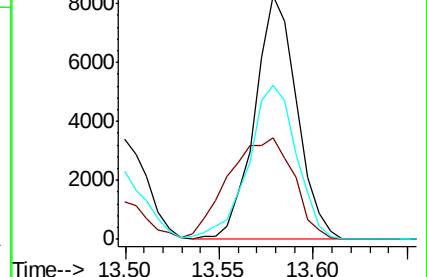
148 63.5 42.3 78.5



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: 0.730 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

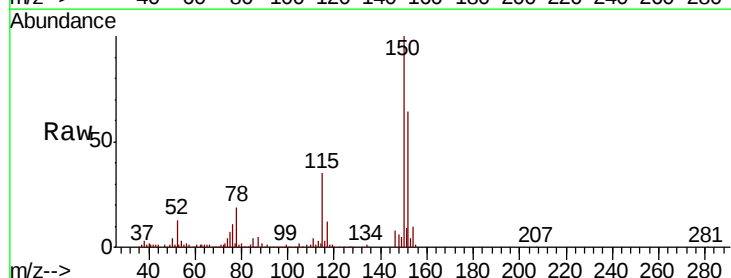
Tgt Ion:146 Resp: 11908

Ion Ratio Lower Upper

146 100

111 45.8 31.4 47.0

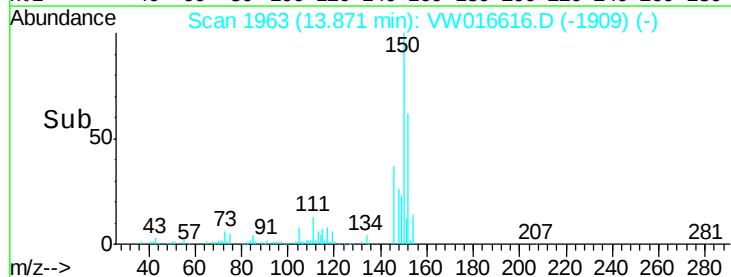
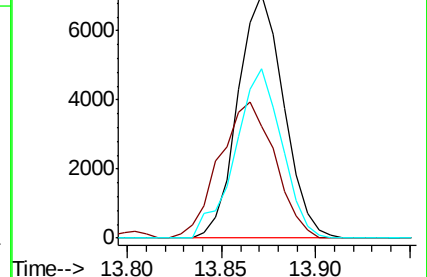
148 69.7 49.3 73.9

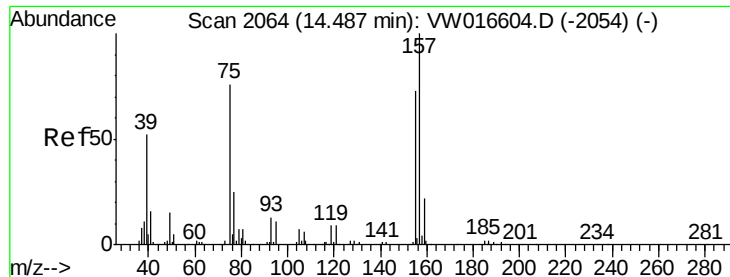


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

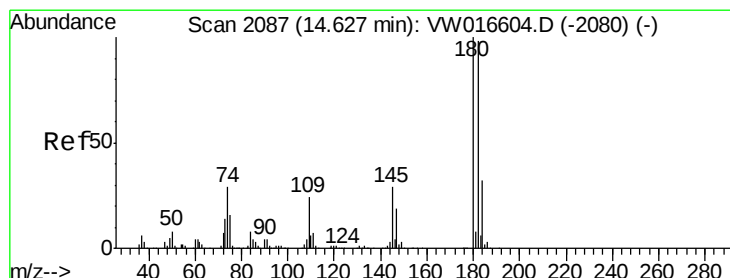
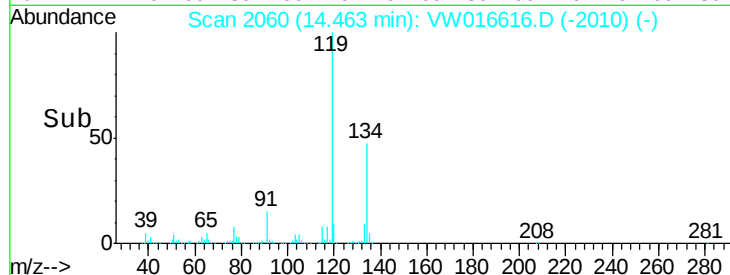
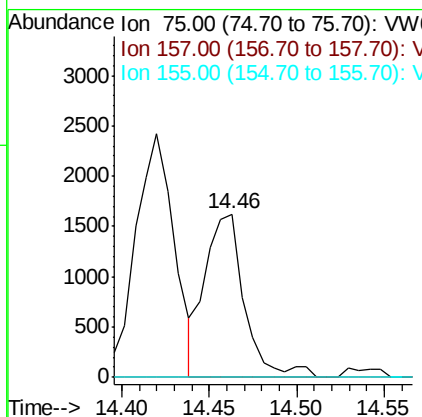
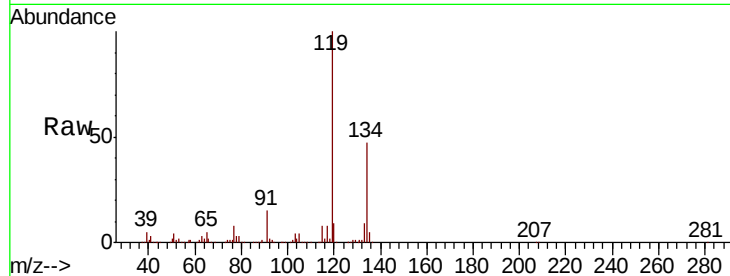




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.165 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW016616.D
 Acq: 22 Sep 2020 17:29

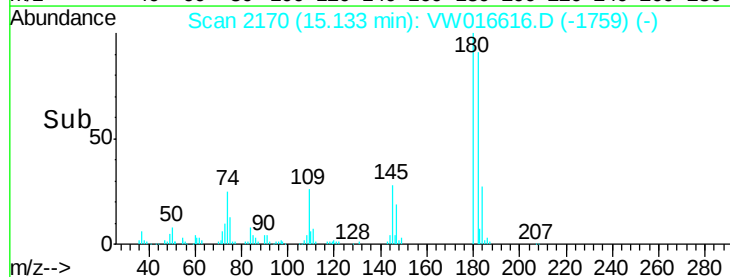
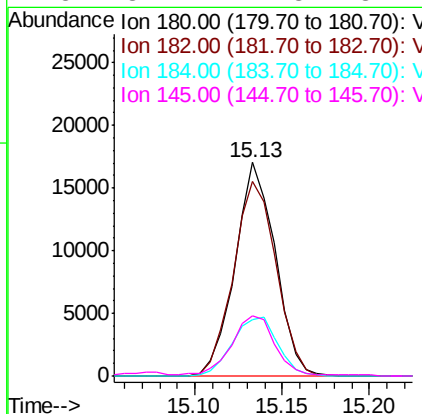
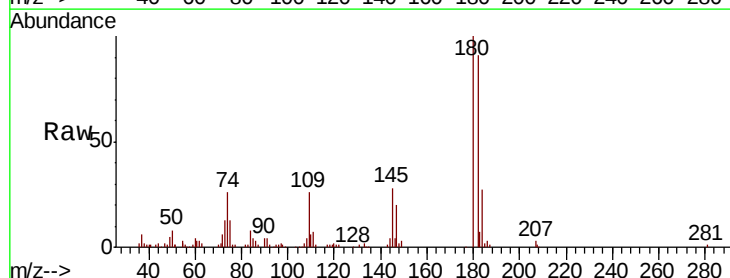
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X5

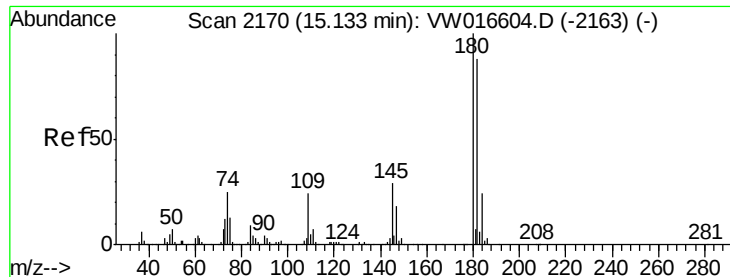
Tot Ion: 75 Resp: 2532
 Ion Ratio Lower Upper
 75 100
 157 0.0 92.2 138.4#
 155 0.0 73.5 110.3#



#67
 1,3,5-Trichlorobenzene
 Concen: 2.037 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.51 min
 Lab File: VW016616.D
 Acq: 22 Sep 2020 17:29

Tgt Ion: 180 Resp: 27199
 Ion Ratio Lower Upper
 180 100
 182 97.0 73.8 110.8
 184 30.9 23.7 35.5
 145 31.2 22.8 34.2





#68

1,2,4-trichlorobenzene

Concen: 2.518 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleId :

BG3X5

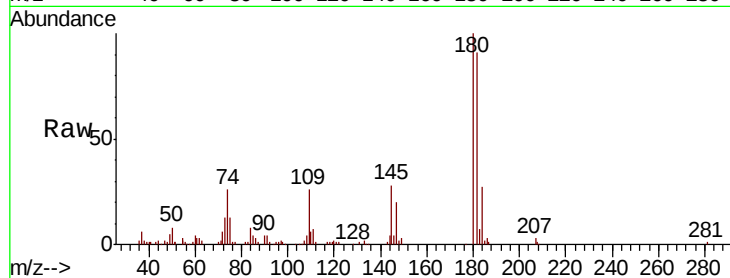
Tot Ion:180 Resp: 27199

Ion Ratio Lower Upper

180 100

182 97.0 74.5 111.7

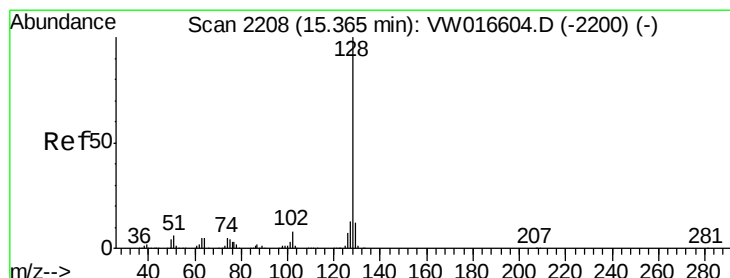
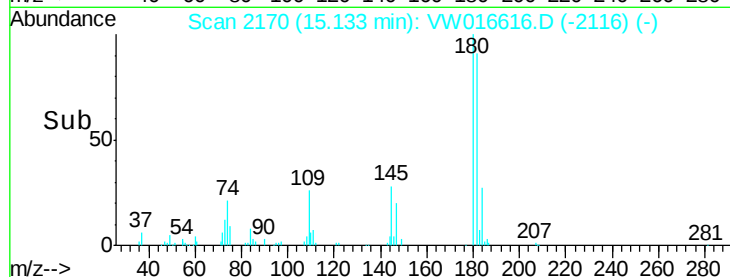
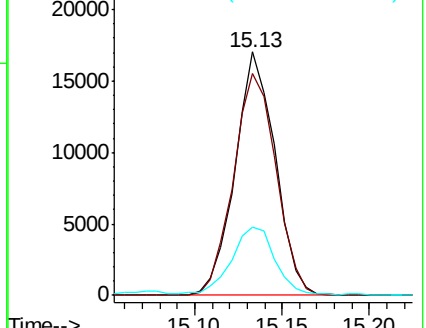
145 31.2 23.1 34.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 137.093 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

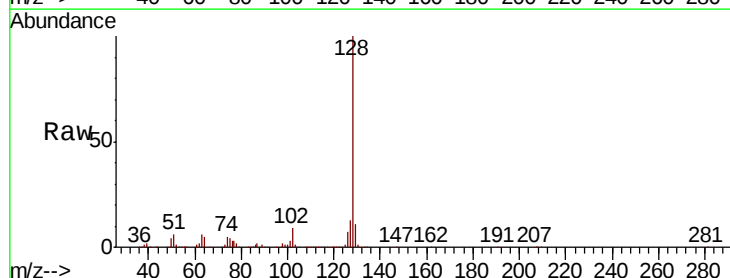
Tgt Ion:128 Resp: 2625381

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

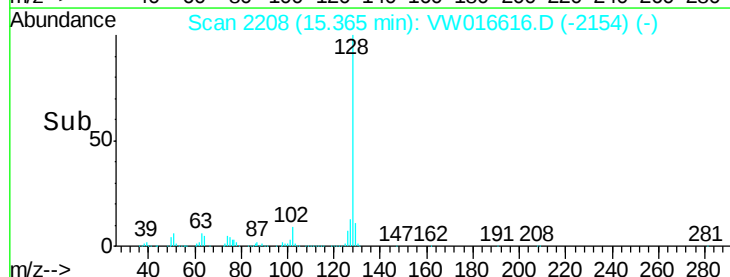
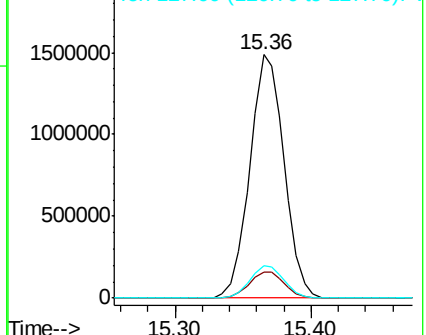
127 13.3 10.8 16.2

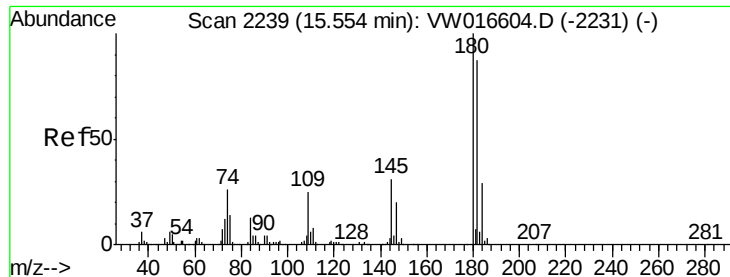


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 2.955 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW016616.D

Acq: 22 Sep 2020 17:29

Instrument :

MSVOA_W

ClientSampleId :

BG3X5

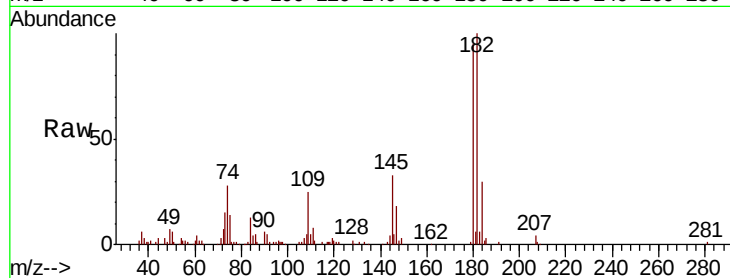
Tot Ion:180 Resp: 27455

Ion Ratio Lower Upper

180 100

182 102.3 76.3 114.5

145 34.7 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

