

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011221\
 Data File : VW017838.D
 Acq On : 12 Jan 2021 16:16
 Operator : SY/VA
 Sample : M1099-01
 Misc : 2.60G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 13 03:22:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122420S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 08 21:58:14 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	193641	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	167135	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	55385	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	486117	162.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	648.96%#
7) Chloroethane-d5	2.89	69	61589	24.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.64%
10) 1,1-Dichloroethene-d2	4.02	63	100597	19.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	77.08%
20) 2-Butanone-d5	7.08	46	50017	103.00	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	206.00%#
24) Chloroform-d	7.65	84	129985	25.69	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.76%
26) 1,2-Dichloroethane-d4	8.31	65	87550	33.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	133.72%#
29) Benzene-d6	8.27	84	253860	26.96	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	107.84%
33) 1,2-Dichloropropane-d6	9.27	67	76383	29.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	117.72%
37) Toluene-d8	10.32	98	224700	24.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.40%
38) trans-1,3-Dichloropropene-	10.58	79	33859	29.27	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	117.08%
39) 2-Hexanone-d5	10.92	63	32869	100.86	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	201.72%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	70119	36.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	145.60%#
61) 1,2-Dichlorobenzene-d4	13.85	152	47818	24.79	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.16%

Target Compounds

					Ovalue
13) Acetone	4.12	43	21290	50.771 ug/L	99
14) Carbon disulfide	4.38	76	10670	1.497 ug/L #	95
15) Methyl Acetate	4.68	43	386	0.475 ug/L #	77
16) Methylene chloride	4.92	84	20733	7.487 ug/L	94
18) trans-1,2-Dichloroethene	5.43	96	10639	4.133 ug/L	98
21) 2-Butanone	7.16	43	3590	6.365 ug/L #	66
22) cis-1,2-Dichloroethene	7.17	96	14073	5.203 ug/L	95
34) Benzene	8.32	78	7964	0.833 ug/L	100
35) Trichloroethene	9.09	95	988	0.374 ug/L #	27
42) cis-1,3-Dichloropropene	10.04	75	3082	0.856 ug/L #	77
44) Toluene	10.39	91	9347	0.858 ug/L	100
45) trans-1,3-Dichloropropene	10.58	75	2100	0.685 ug/L	85
47) Tetrachloroethene	10.87	164	831	0.402 ug/L #	81
50) Dibromochloromethane	10.86	129	831	0.417 ug/L #	9
52) Chlorobenzene	11.66	112	3648	0.536 ug/L	95
53) Ethylbenzene	11.73	91	3911	0.316 ug/L	98
54) m,p-Xylene	11.84	106	3893	0.805 ug/L	82

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Quant Title : VOC Analysis
QLast Update : Fri Jan 08 21:58:14 2021
Response via : Initial Calibration

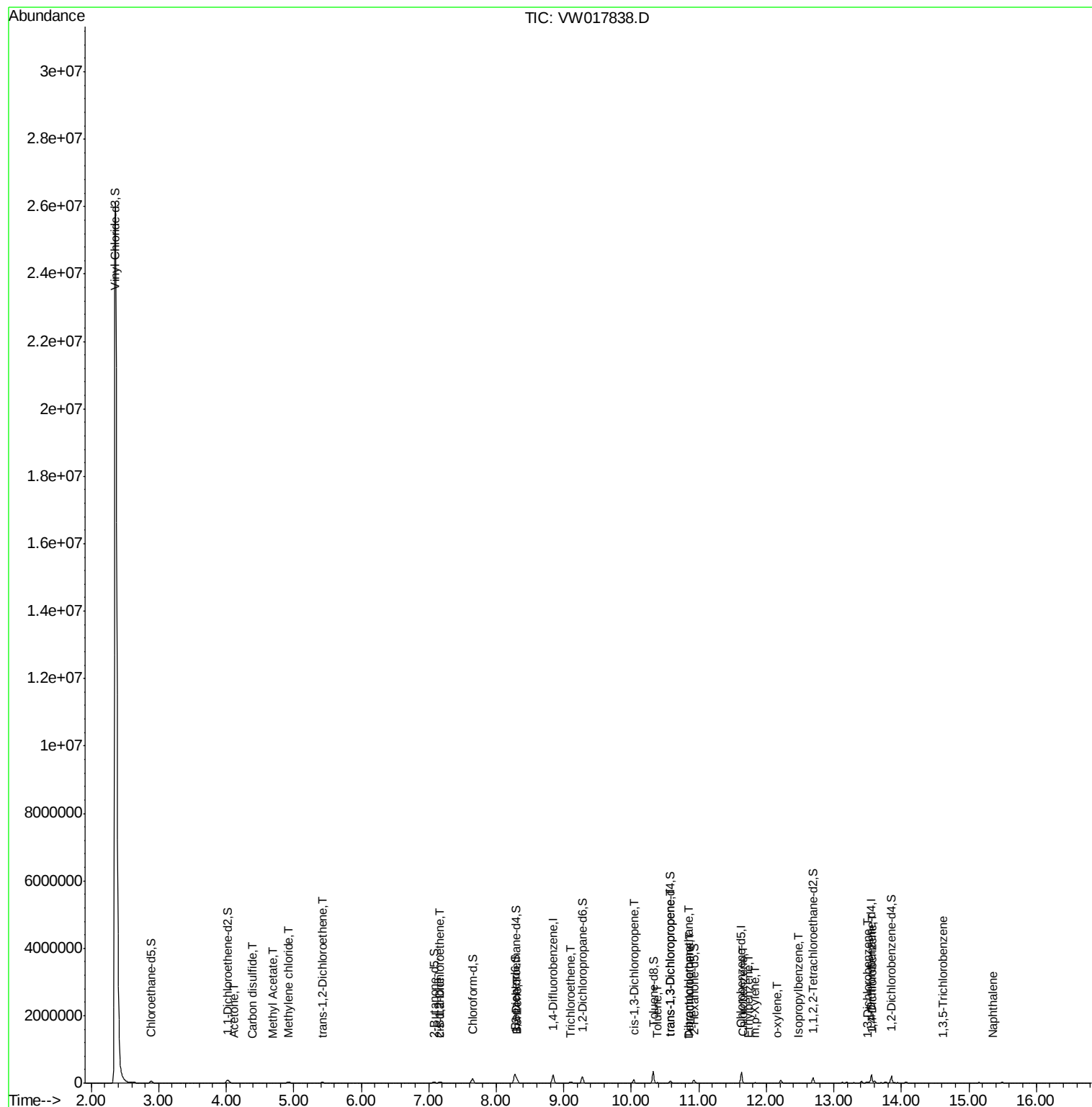
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.16	106	2068	0.455	ug/L	79
57) Isopropylbenzene	12.46	105	3975	0.316	ug/L #	75
63) 1,3-Dichlorobenzene	13.49	146	4012	1.174	ug/L	90
64) 1,4-Dichlorobenzene	13.57	146	1385	0.403	ug/L #	65
67) 1,3,5-Trichlorobenzene	14.63	180	714	0.305	ug/L	89
69) Naphthalene	15.36	128	3834	1.044	ug/L	99

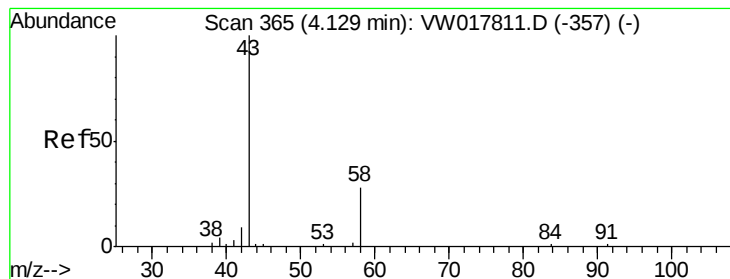
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 50.771 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

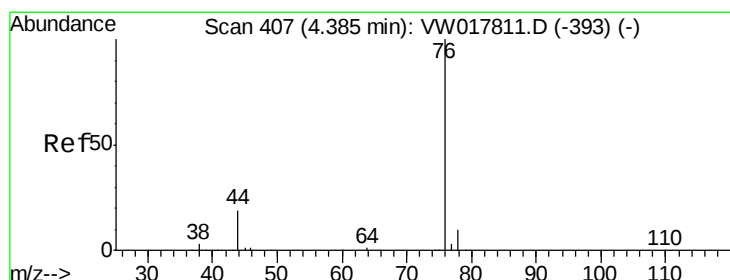
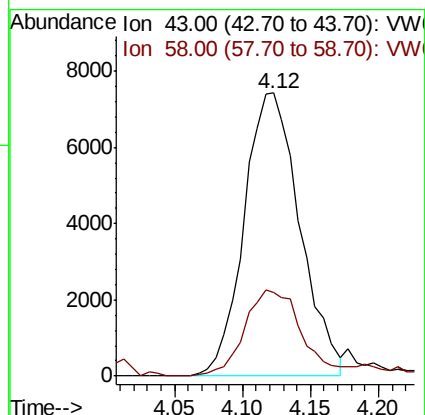
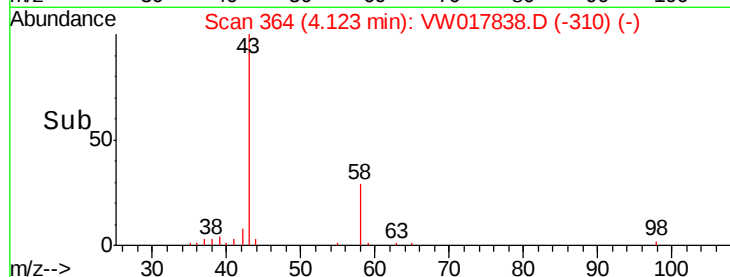
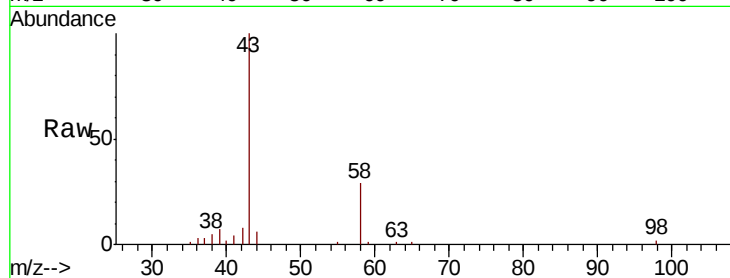
ClientSampleId :

Tot Ion: 43 Resp: 21290

Ion Ratio Lower Upper

43 100

58 31.2 0.0 60.8



#14

Carbon disulfide

Concen: 1.497 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW017838.D

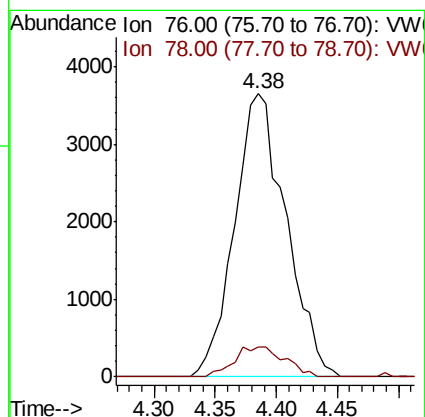
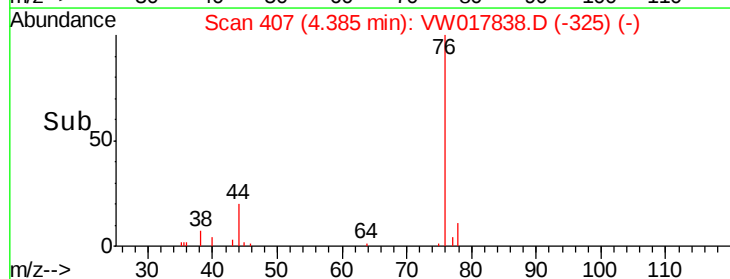
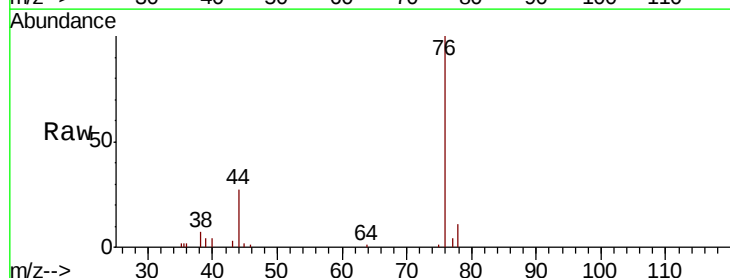
Acq: 12 Jan 2021 16:16

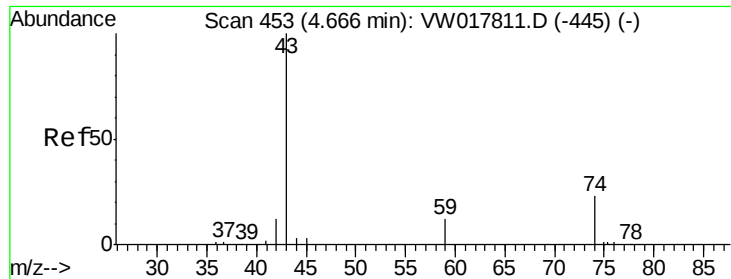
Tgt Ion: 76 Resp: 10670

Ion Ratio Lower Upper

76 100

78 10.8 7.1 10.7#

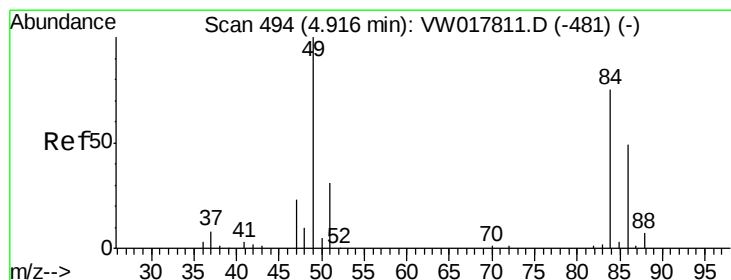
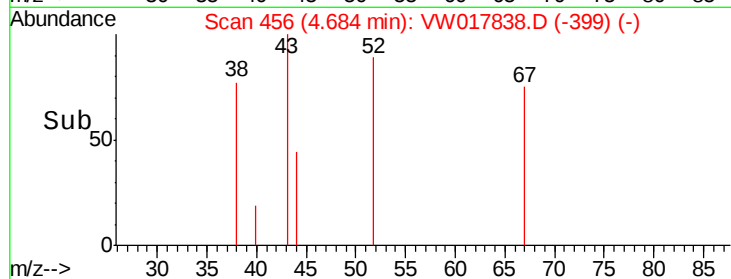
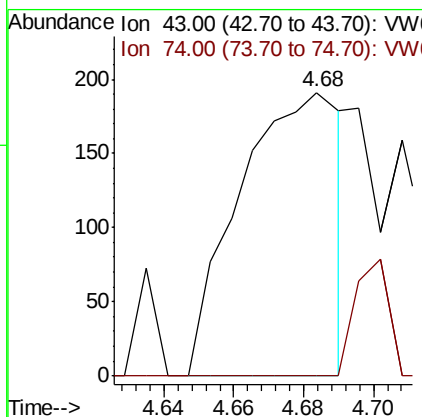
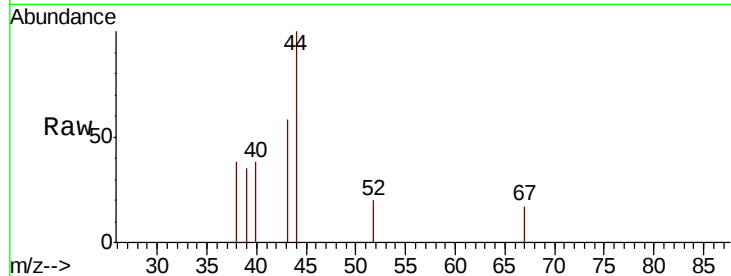




#15
Methyl Acetate
Concen: 0.475 ug/L
RT: 4.68 min Scan# 456
Delta R.T. 0.02 min
Lab File: VW017838.D
Acq: 12 Jan 2021 16:16

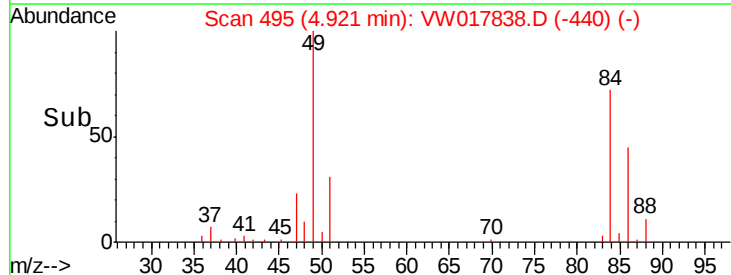
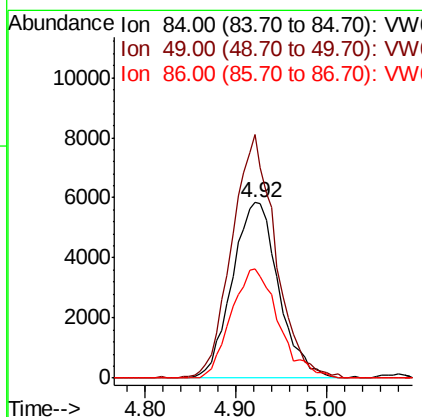
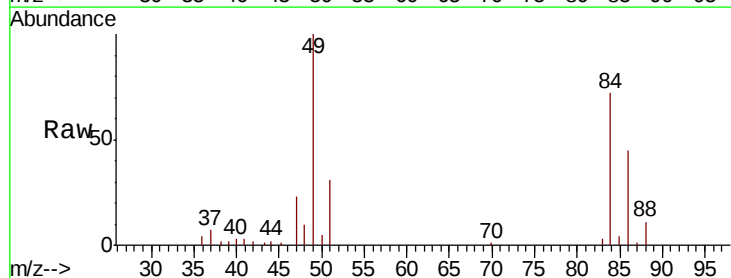
Instrument :
MSVOA_W
ClientSampled :

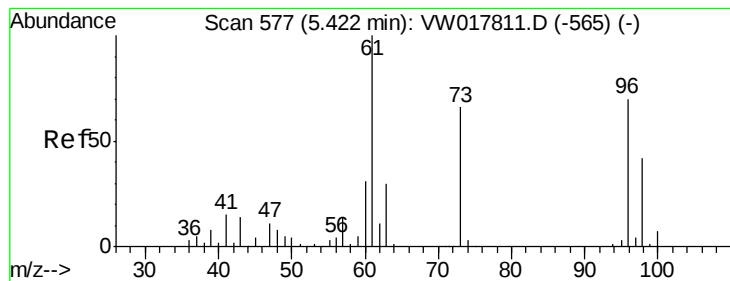
Tot Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
74 13.5 20.2 30.4#



#16
Methylene chloride
Concen: 7.487 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW017838.D
Acq: 12 Jan 2021 16:16

Tgt Ion: 84 Resp: 20733
Ion Ratio Lower Upper
84 100
49 138.8 90.5 168.1
86 62.0 44.8 83.2





#18

trans-1,2-Dichloroethene

Concen: 4.133 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

ClientSampled :

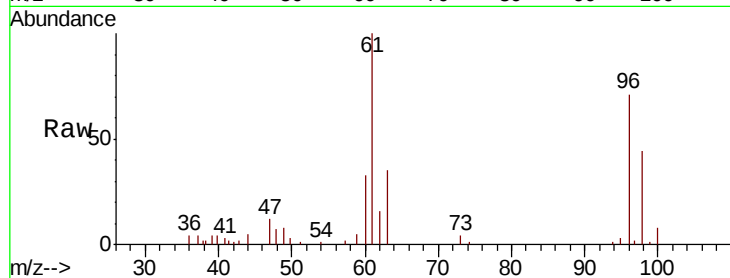
Tot Ion: 96 Resp: 10639

Ion Ratio Lower Upper

96 100

61 141.4 99.5 184.9

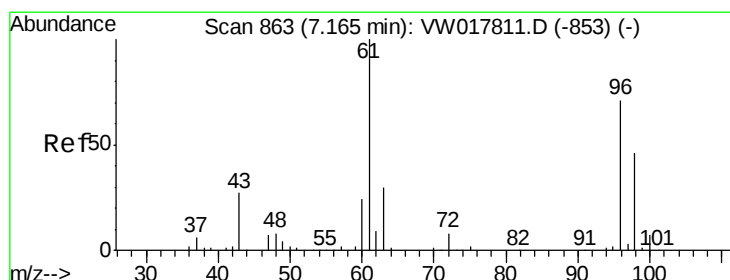
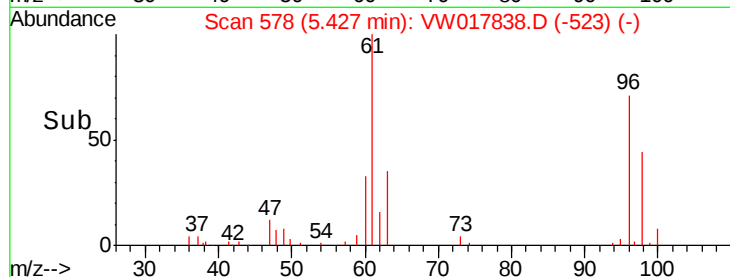
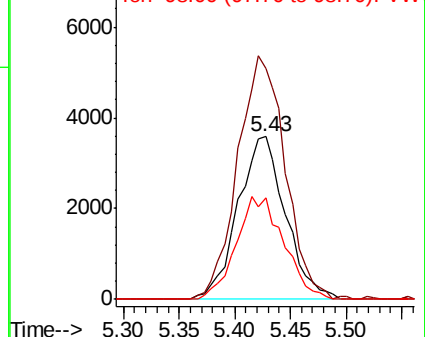
98 62.5 45.8 85.2



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



#21

2-Butanone

Concen: 6.365 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW017838.D

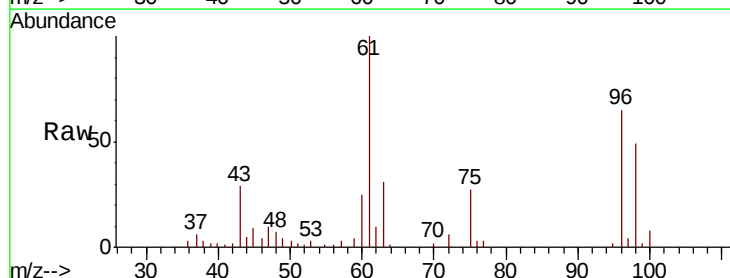
Acq: 12 Jan 2021 16:16

Tgt Ion: 43 Resp: 3590

Ion Ratio Lower Upper

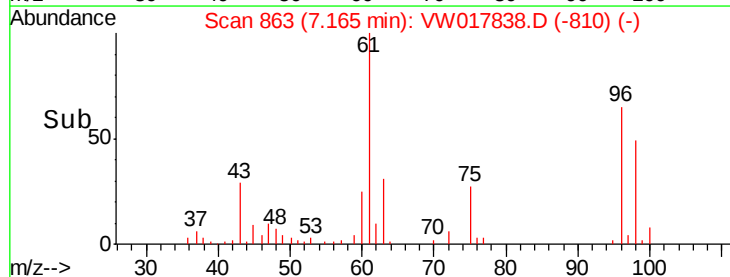
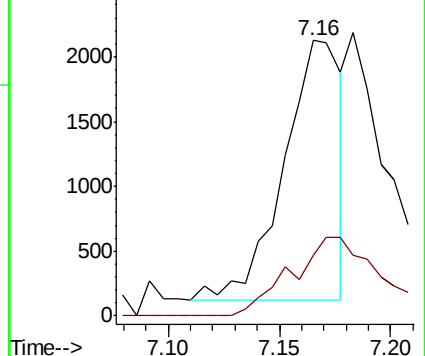
43 100

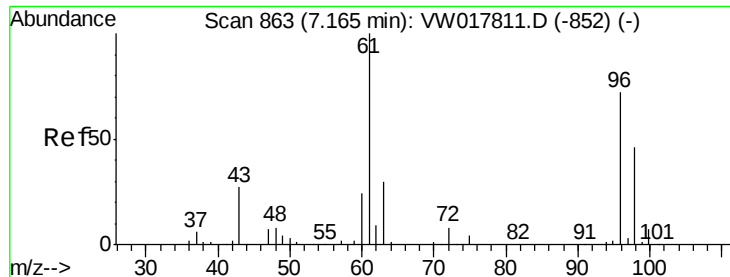
72 49.4 15.4 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



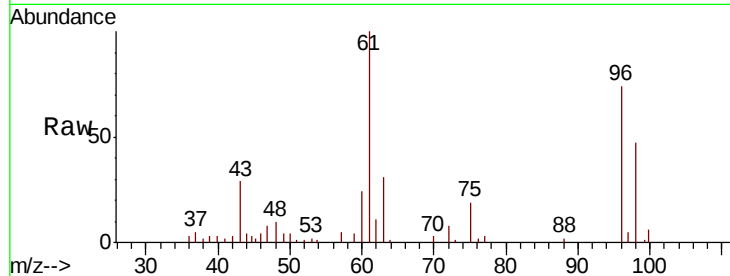


#22

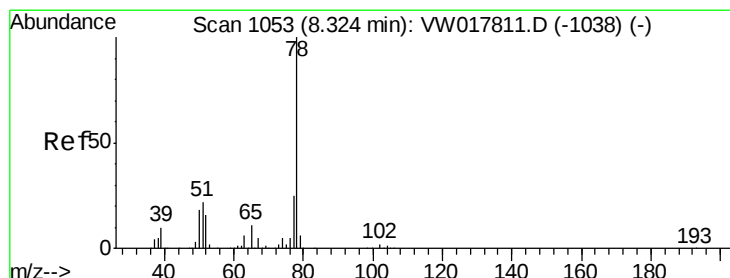
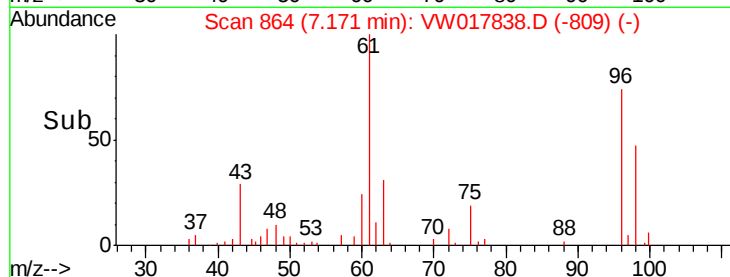
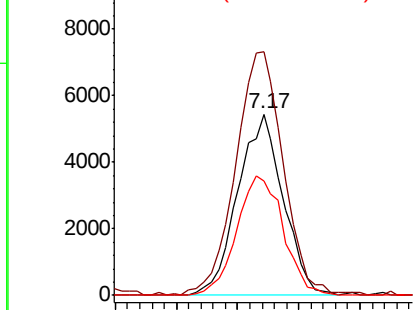
cis-1,2-Dichloroethene
 Concen: 5.203 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW017838.D
 Acq: 12 Jan 2021 16:16

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 96 Resp: 14073
 Ion Ratio Lower Upper
 96 100
 61 134.2 88.2 163.8
 98 63.0 43.7 81.1



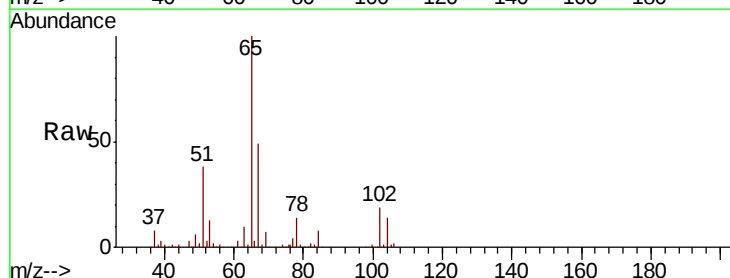
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



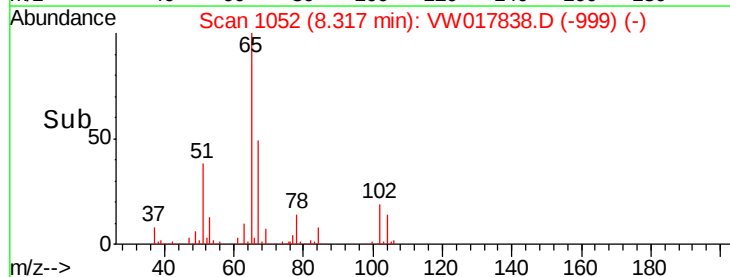
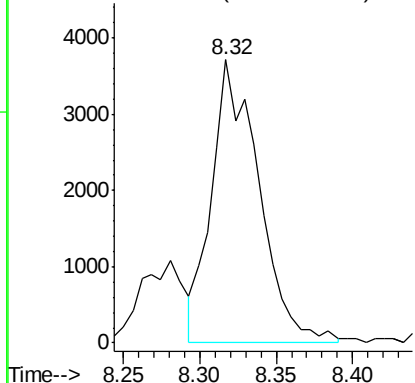
#34

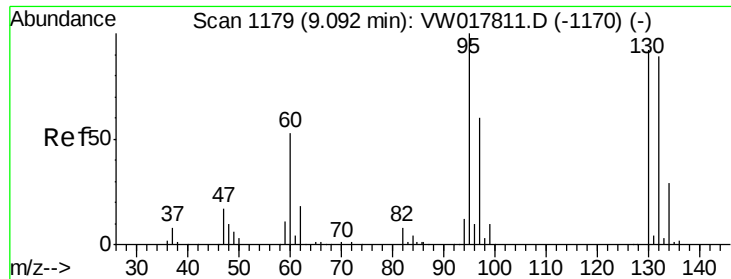
Benzene
 Concen: 0.833 ug/L
 RT: 8.32 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VW017838.D
 Acq: 12 Jan 2021 16:16

Tgt Ion: 78 Resp: 7964



Abundance Ion 78.00 (77.70 to 78.70): VW

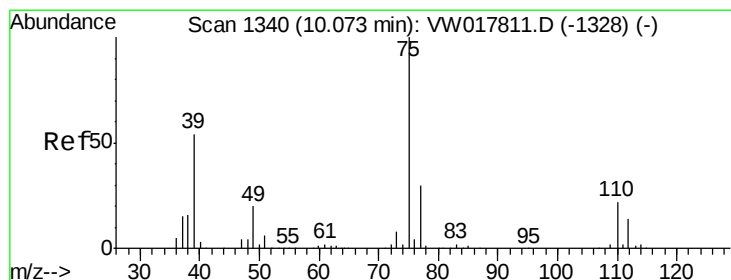
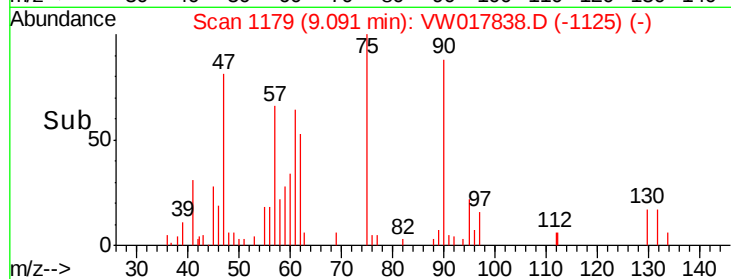
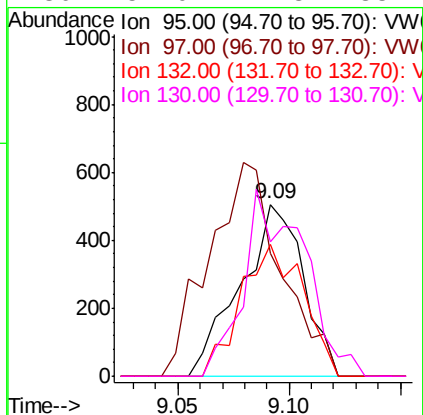
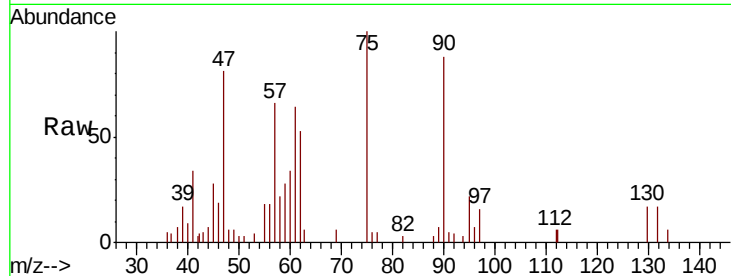




#35
 Trichloroethene
 Concen: 0.374 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW017838.D
 Acq: 12 Jan 2021 16:16

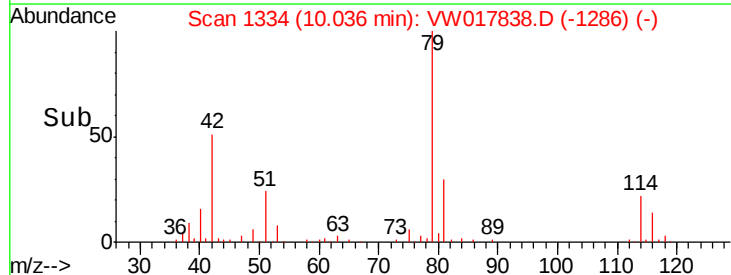
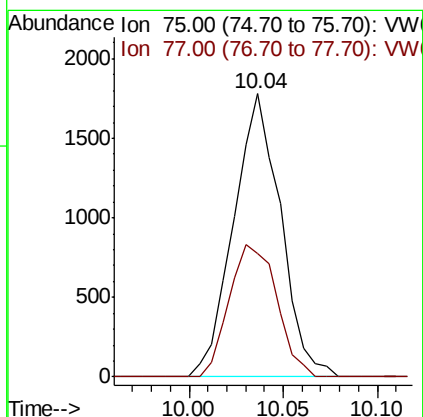
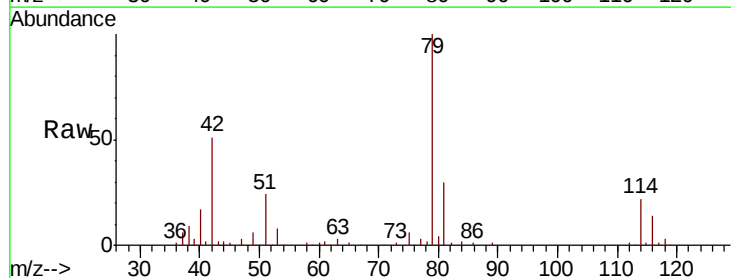
Instrument :
 MSVOA_W
 ClientSampled :

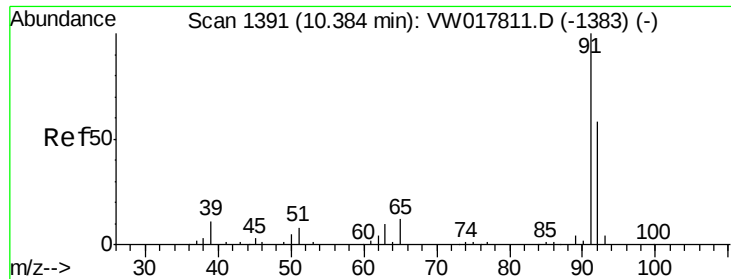
Tot Ion: 95 Resp: 988
 Ion Ratio Lower Upper
 95 100
 97 215.6 46.8 87.0#
 132 76.3 68.3 126.9
 130 54.0 71.8 133.4#



#42
 cis-1,3-Dichloropropene
 Concen: 0.856 ug/L
 RT: 10.04 min Scan# 1334
 Delta R.T. -0.04 min
 Lab File: VW017838.D
 Acq: 12 Jan 2021 16:16

Tgt Ion: 75 Resp: 3082
 Ion Ratio Lower Upper
 75 100
 77 43.6 21.6 40.2#





#44

Toluene

Concen: 0.858 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

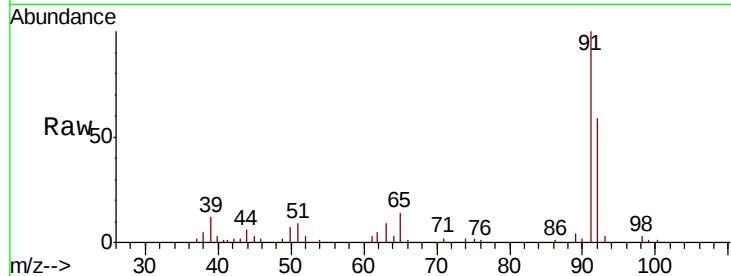
ClientSampled :

Tot Ion: 91 Resp: 9347

Ion Ratio Lower Upper

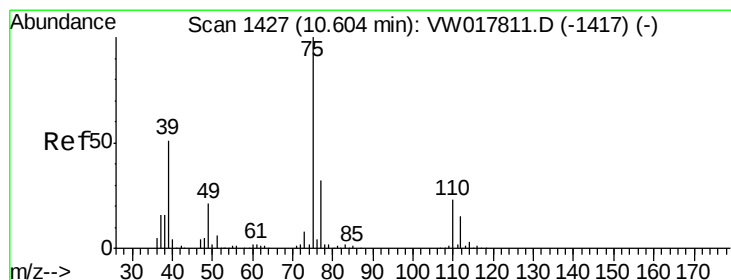
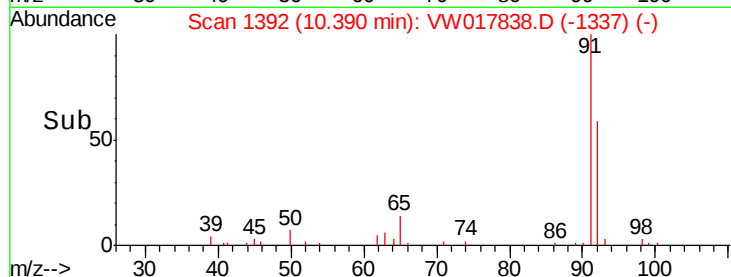
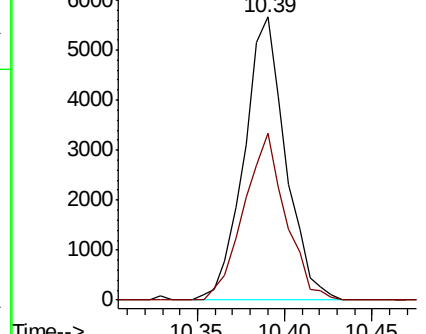
91 100

92 58.9 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



#45

trans-1,3-Dichloropropene

Concen: 0.685 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW017838.D

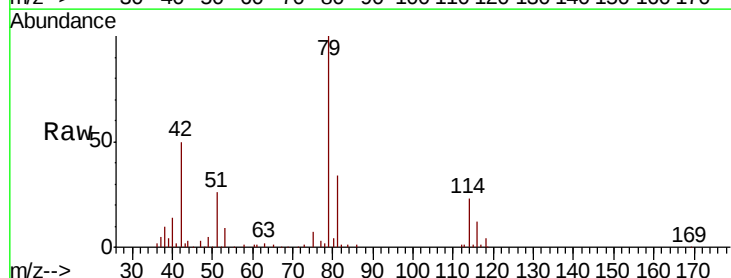
Acq: 12 Jan 2021 16:16

Tgt Ion: 75 Resp: 2100

Ion Ratio Lower Upper

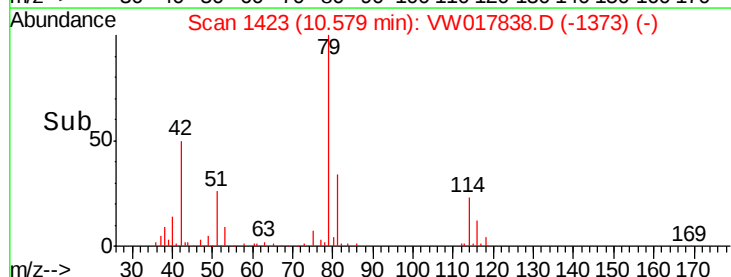
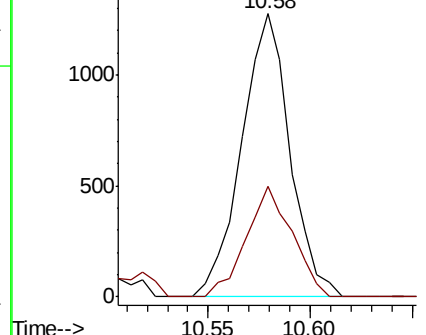
75 100

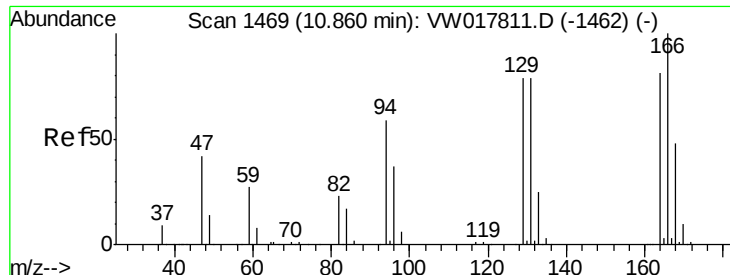
77 39.3 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#47

Tetrachloroethene

Concen: 0.402 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

ClientSampled :

Tot Ion:164 Resp: 831

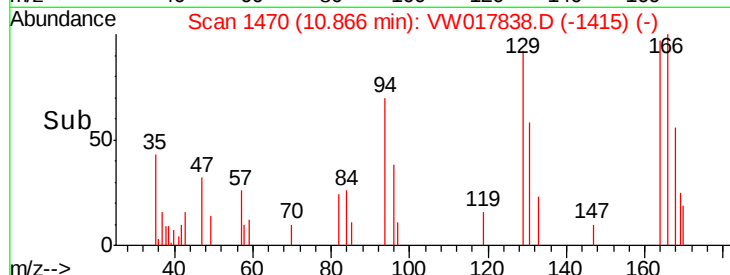
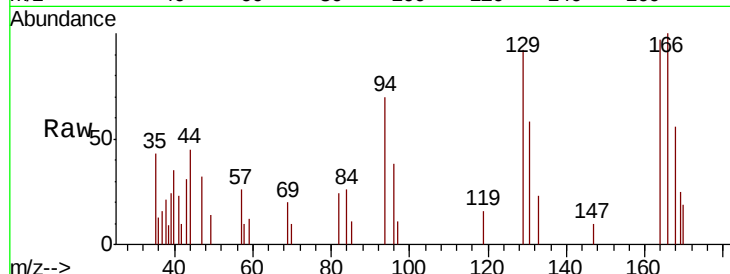
Ion Ratio Lower Upper

164 100

129 94.3 62.9 116.9

131 59.5 63.8 118.6#

166 102.7 87.4 162.2

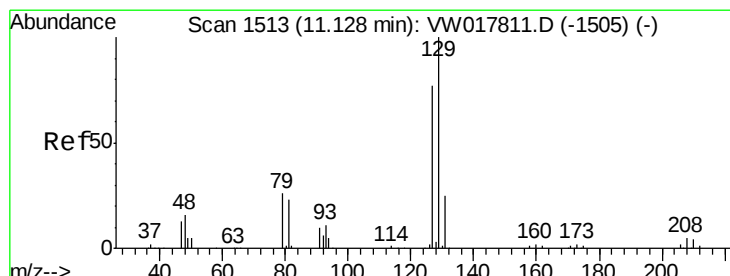
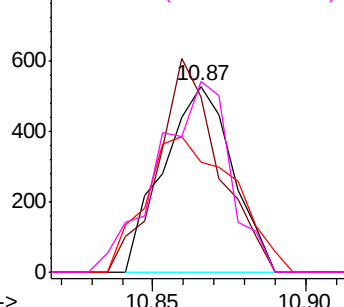


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#50

Dibromochloromethane

Concen: 0.417 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW017838.D

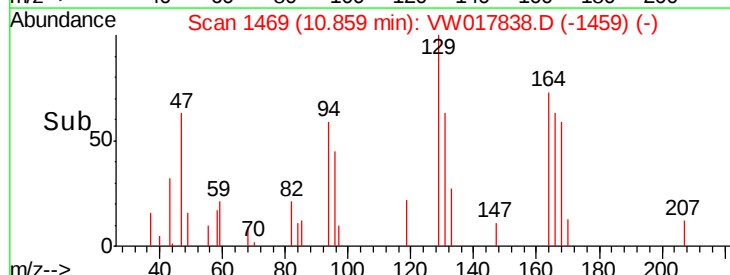
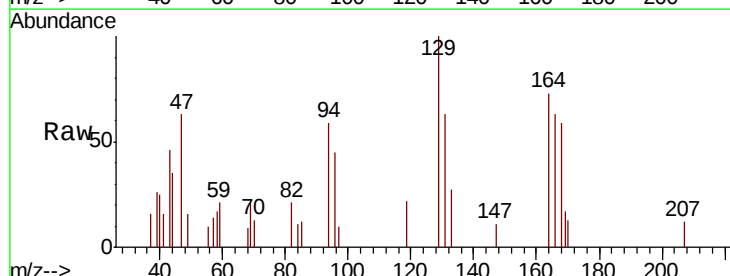
Acq: 12 Jan 2021 16:16

Tgt Ion:129 Resp: 831

Ion Ratio Lower Upper

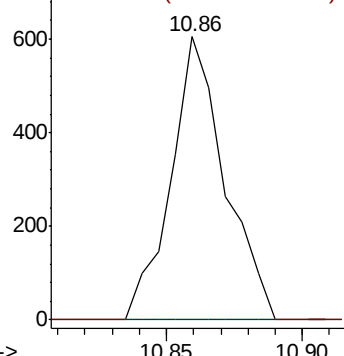
129 100

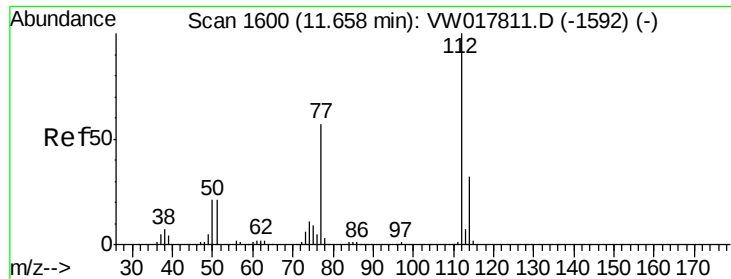
127 0.0 56.1 104.3#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Chlorobenzene

Concen: 0.536 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

ClientSampleId :

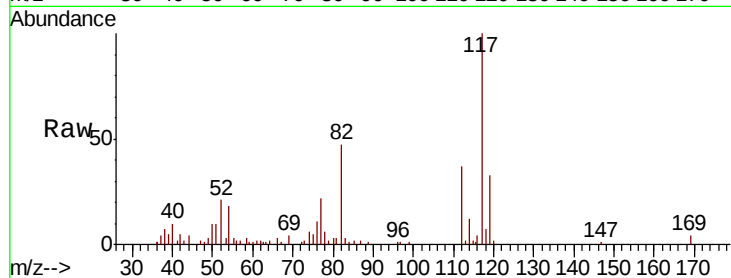
Tot Ion:112 Resp: 3648

Ion Ratio Lower Upper

112 100

77 59.5 43.4 65.2

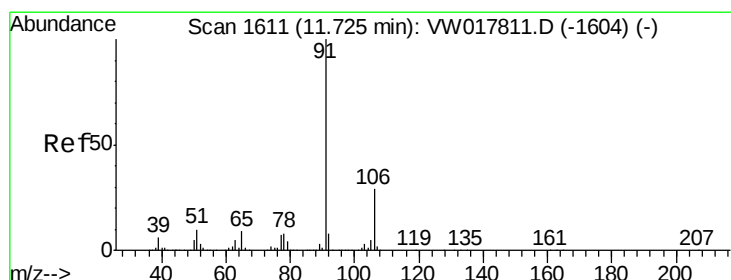
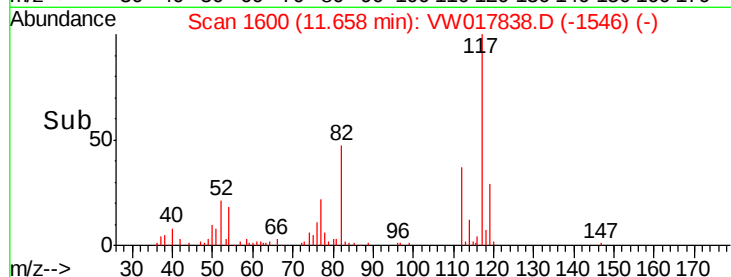
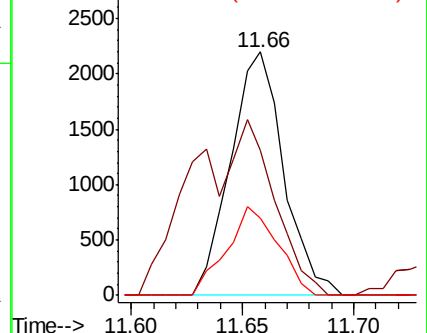
114 31.5 21.6 40.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 0.316 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW017838.D

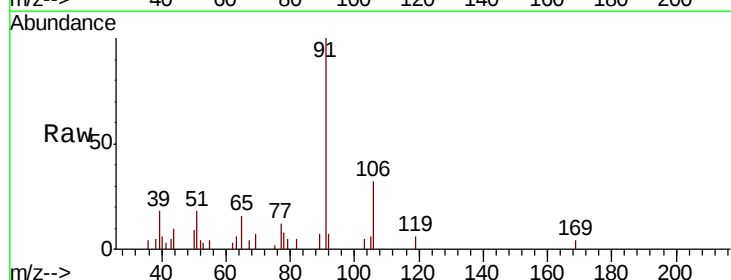
Acq: 12 Jan 2021 16:16

Tgt Ion: 91 Resp: 3911

Ion Ratio Lower Upper

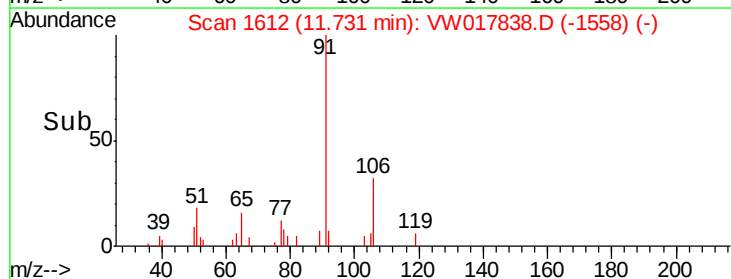
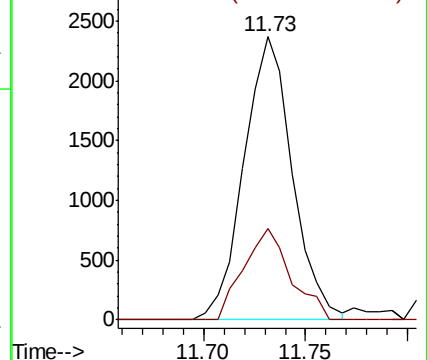
91 100

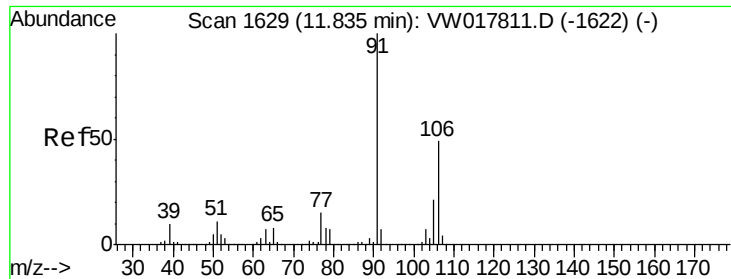
106 32.5 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 0.805 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

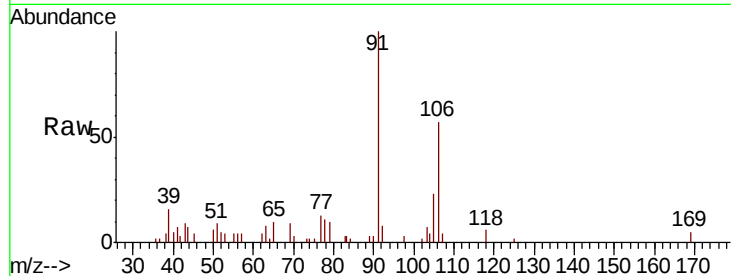
ClientSampled :

Tot Ion:106 Resp: 3893

Ion Ratio Lower Upper

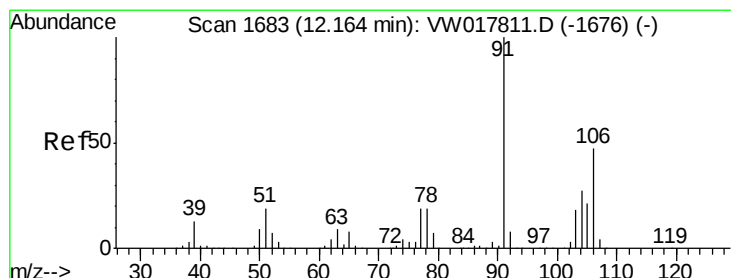
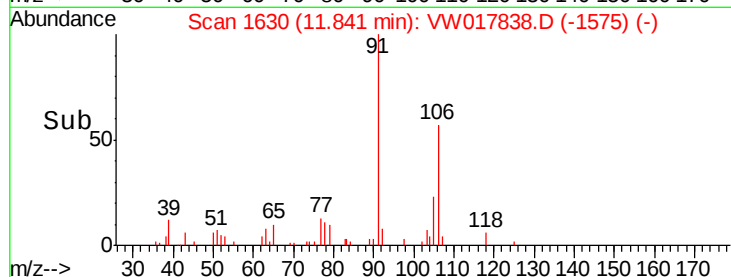
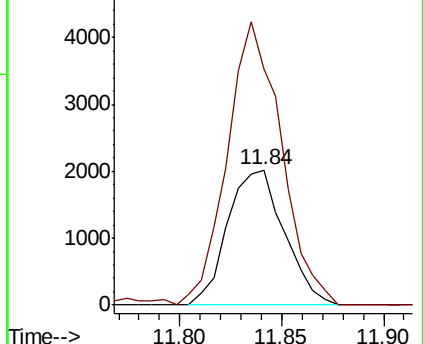
106 100

91 175.3 141.6 263.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 0.455 ug/L

RT: 12.16 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VW017838.D

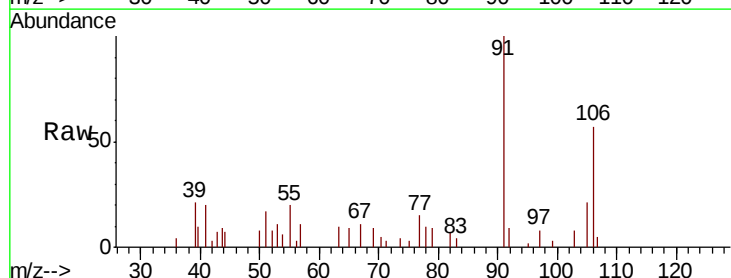
Acq: 12 Jan 2021 16:16

Tgt Ion:106 Resp: 2068

Ion Ratio Lower Upper

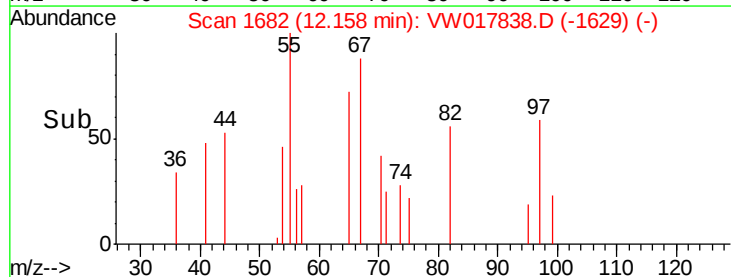
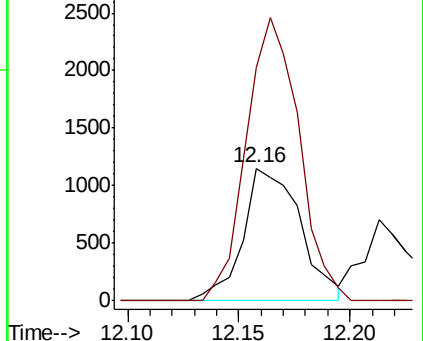
106 100

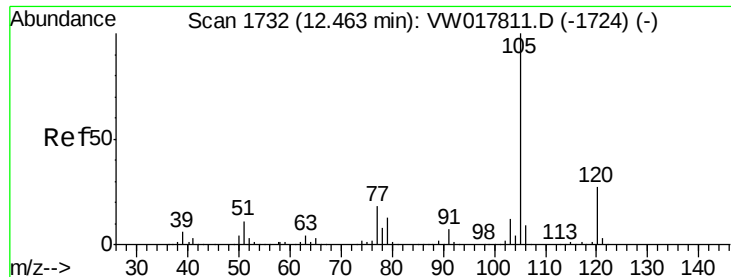
91 176.0 145.7 270.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 0.316 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

ClientSampleId :

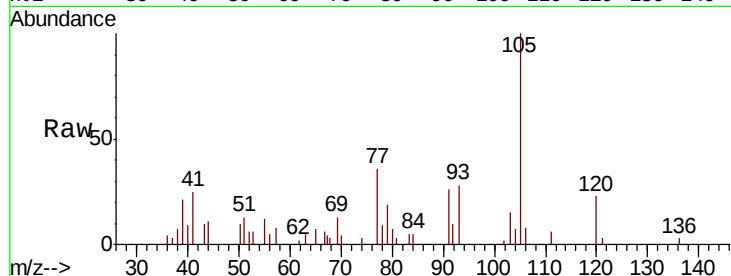
Tot Ion:105 Resp: 3975

Ion Ratio Lower Upper

105 100

120 18.1 21.4 32.2#

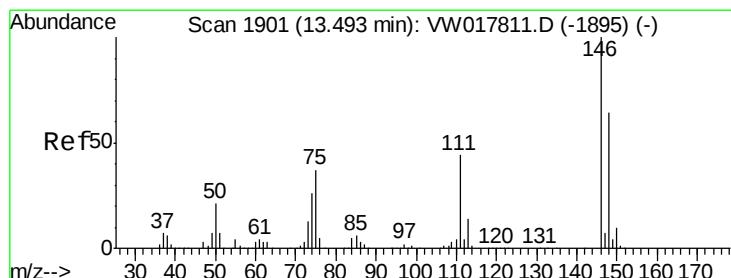
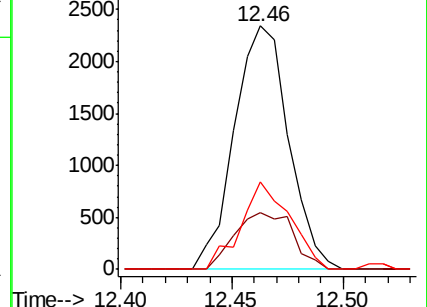
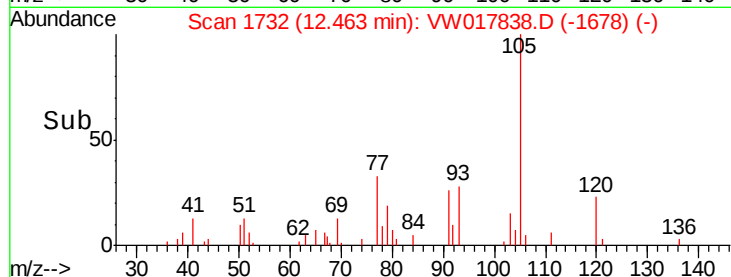
77 32.6 12.7 19.1#



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: 1.174 ug/L

RT: 13.49 min Scan# 1901

Delta R.T. -0.01 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

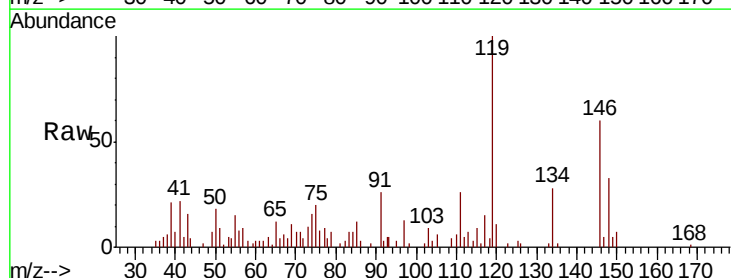
Tgt Ion:146 Resp: 4012

Ion Ratio Lower Upper

146 100

111 42.5 29.5 54.7

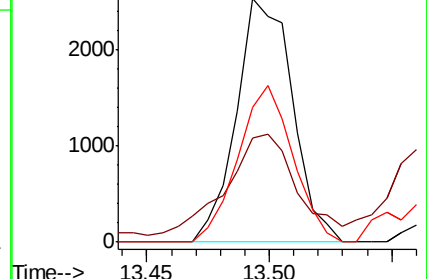
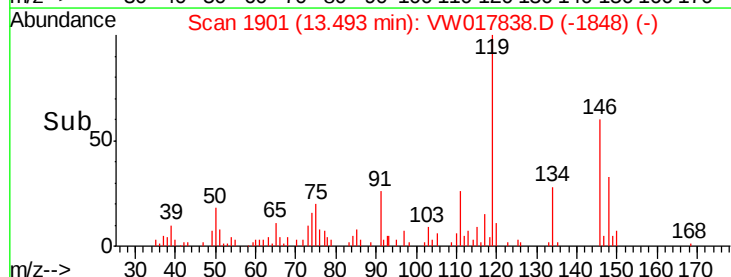
148 55.4 47.7 88.5

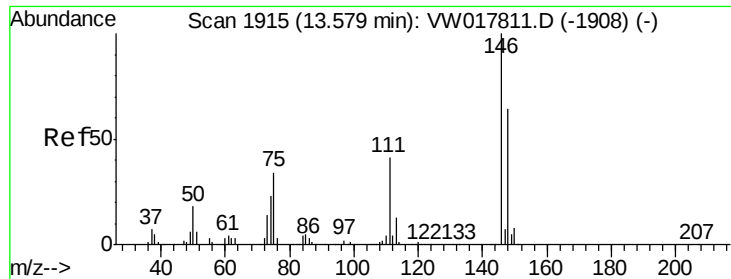


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 0.403 ug/L

RT: 13.57 min Scan# 1914

Delta R.T. -0.01 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Instrument :

MSVOA_W

ClientSampled :

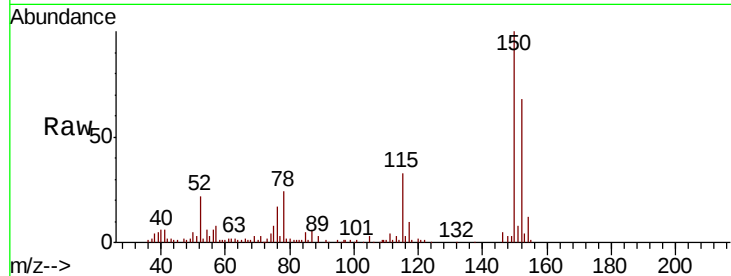
Tot Ion:146 Resp: 1385

Ion Ratio Lower Upper

146 100

111 85.4 27.7 51.5#

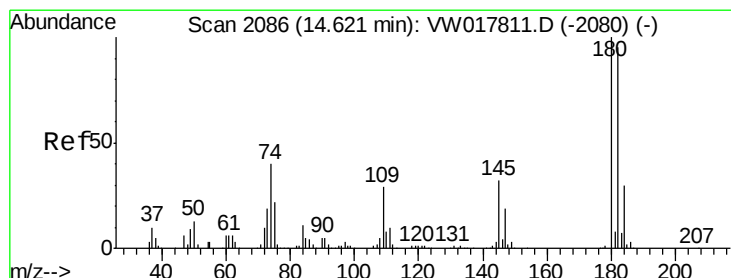
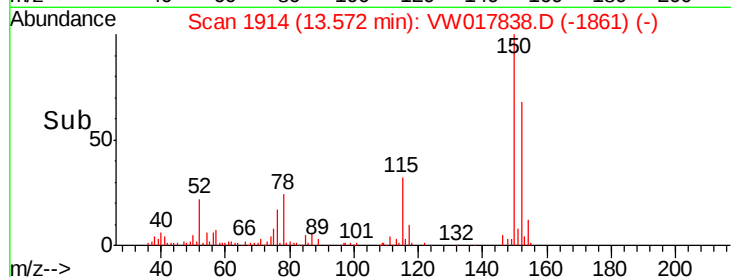
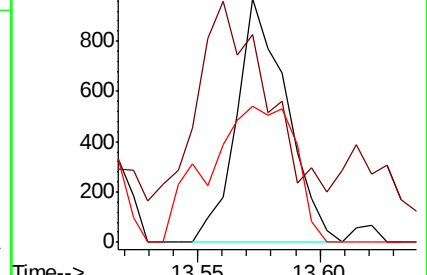
148 55.8 44.2 82.2



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



#67

1,3,5-Trichlorobenzene

Concen: 0.305 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VW017838.D

Acq: 12 Jan 2021 16:16

Tgt Ion:180 Resp: 714

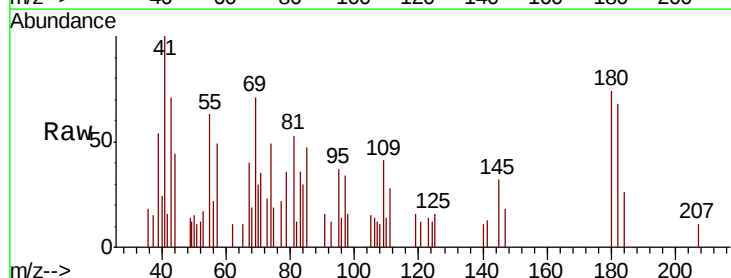
Ion Ratio Lower Upper

180 100

182 110.4 76.2 114.2

184 29.6 23.6 35.4

145 36.7 25.2 37.8

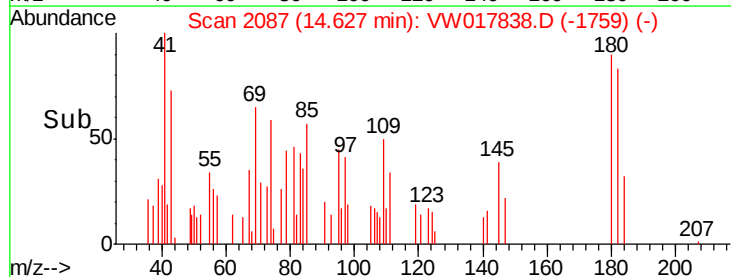
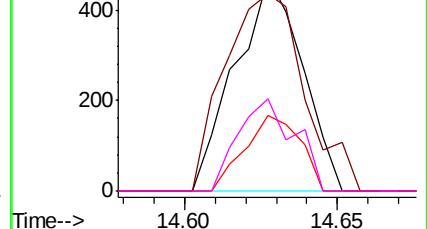


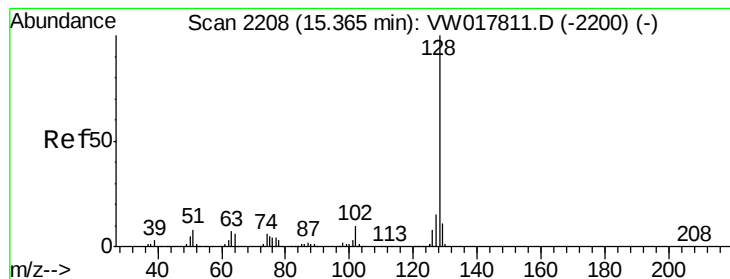
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

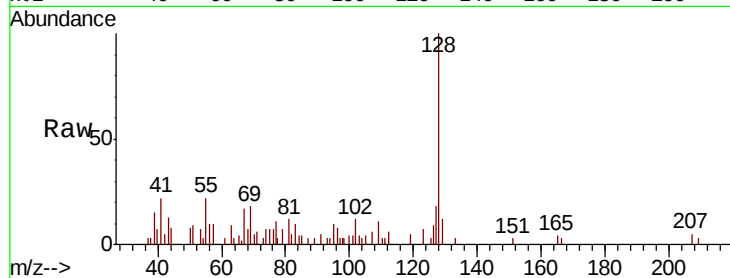




#69
Naphthalene
Concen: 1.044 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW017838.D
Acq: 12 Jan 2021 16:16

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 3834
Ion Ratio Lower Upper
128 100
129 11.7 8.8 13.2
127 13.1 10.6 15.8



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

