

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018795.D
 Acq On : 09 Oct 2020 05:23
 Operator : SY/MD
 Sample : L4239-10 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P5

Quant Time: Oct 09 07:35:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM100820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 09 07:31:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	337329	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	325593	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	164028	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	132331	43.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.34%
7) Chloroethane-d5	1.58	69	111305	45.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.24%
11) 1,1-Dichloroethene-d2	2.12	63	200804	33.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.96%
21) 2-Butanone-d5	3.90	46	195849	104.06	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.06%
24) Chloroform-d	4.38	84	247056	45.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.38%
26) 1,2-Dichloroethane-d4	5.05	65	171590	46.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.62%
32) Benzene-d6	5.07	84	490426	46.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.09	67	147706	43.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.46%
41) Toluene-d8	7.34	98	411523	44.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.48%
43) trans-1,3-Dichloropropene-	7.64	79	70111	41.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.96%
47) 2-Hexanone-d5	8.11	63	120694	100.79	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.79%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	188444	47.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.90%
64) 1,2-Dichlorobenzene-d4	11.65	152	173906	47.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1821	0.751	ug/L #	21
12) 1,1-Dichloroethene	2.13	96	4093	1.753	ug/L #	1
20) cis-1,2-Dichloroethene	3.94	96	151232	58.067	ug/L	99
29) Cyclohexane	4.70	56	94481	23.962	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	422465	97.354	ug/L	99
31) Carbon tetrachloride	4.64	117	52600	14.381	ug/L	100
34) Trichloroethene	5.94	95	20987	7.059	ug/L	92
35) Methylcyclohexane	6.09	83	34775	9.560	ug/L #	16
42) Toluene	7.41	91	3936576	371.026	ug/L	97
46) Tetrachloroethene	8.00	164	2829	1.298	ug/L	93
49) Dibromochloromethane	8.00	129	2656	0.954	ug/L #	10
52) Ethylbenzene	9.03	91	309357	25.676	ug/L	100
53) m,p-Xylene	9.16	106	469926	106.254	ug/L	99
54) o-xylene	9.56	106	213607	50.853	ug/L	98
55) Styrene	9.56	104	11211	1.508	ug/L #	1
56) Isopropylbenzene	9.95	105	185140	15.929	ug/L	99
59) 1,2,3-Trichloropropane	10.37	75	4999	1.481	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Fri Oct 09 07:31:27 2020
Response via : Initial Calibration

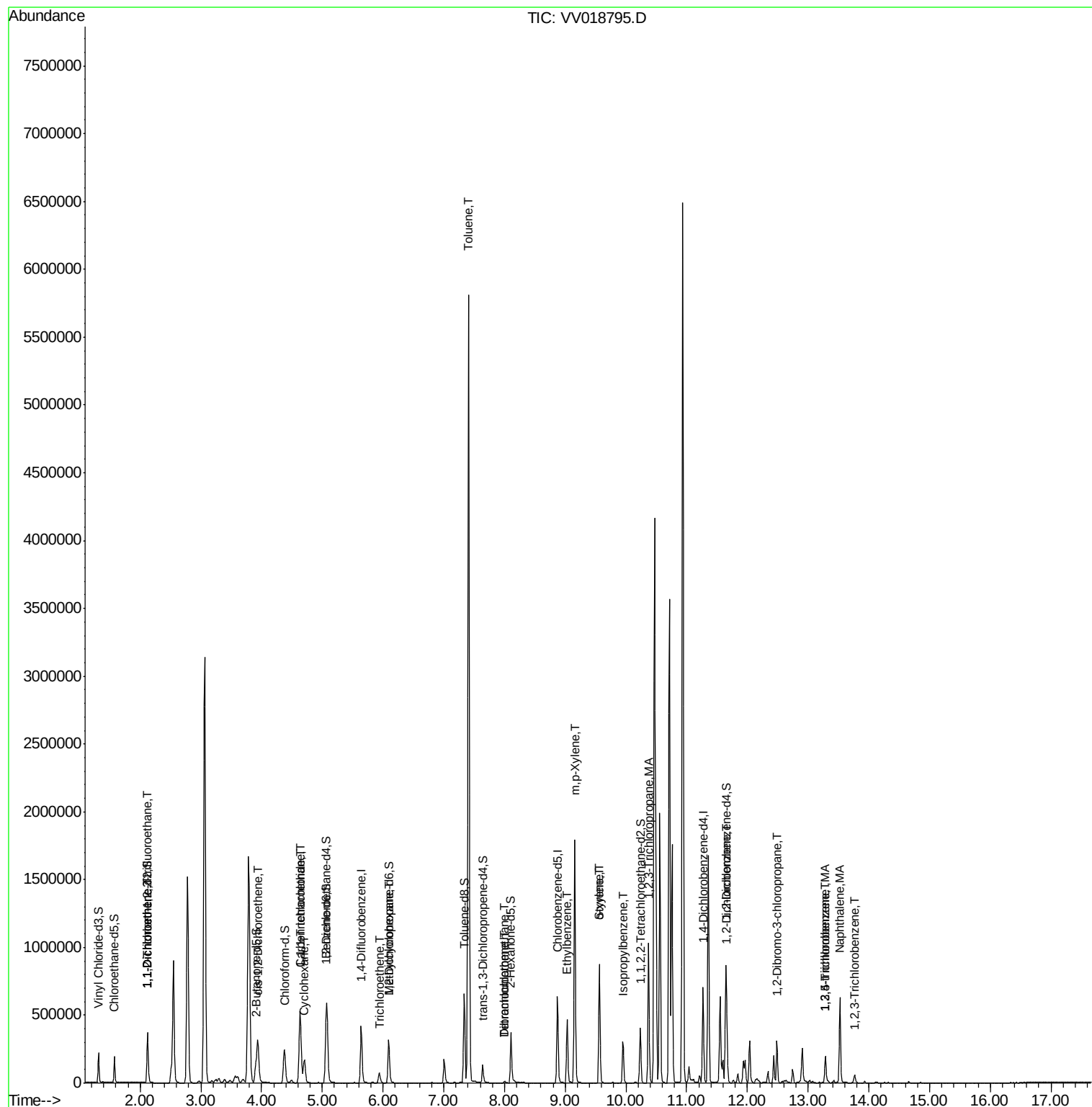
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.67	146	13908	2.591	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.49	75	1401	1.892	ug/L #	3
67) 1,3,5-Trichlorobenzene	13.29	180	51606	14.899	ug/L	98
68) 1,2,4-trichlorobenzene	13.29	180	51606	15.844	ug/L	98
69) Naphthalene	13.52	128	461067	50.241	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	17682	5.469	ug/L	98

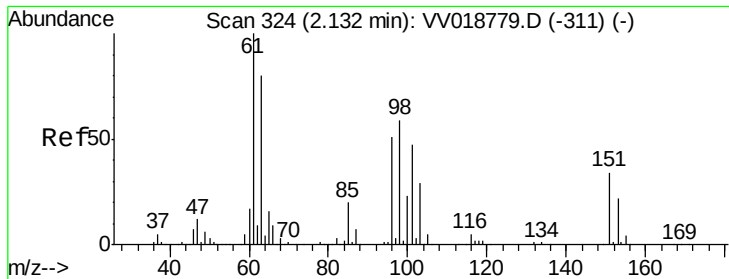
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.751 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Instrument :

MSVOA_V

ClientSampleId :

BG3P5

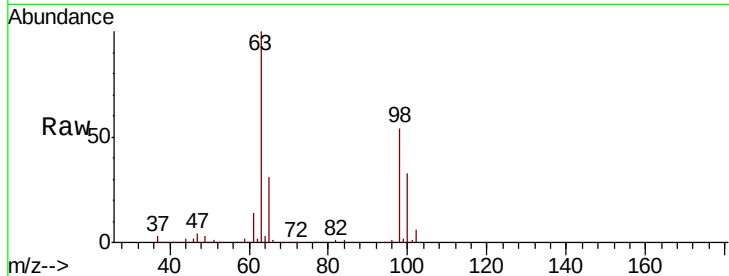
Tot Ion:101 Resp: 1821

Ion Ratio Lower Upper

101 100

85 2.4 35.9 53.9#

151 0.0 59.8 89.8#

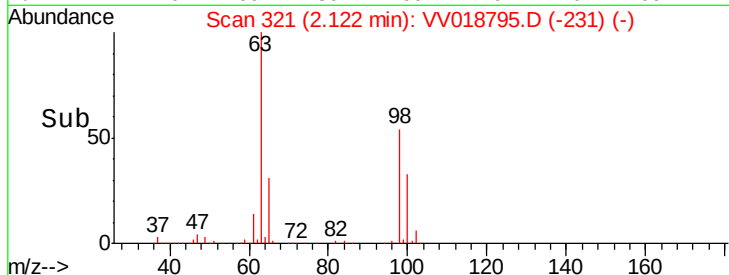


Abundance Ion 101.00 (100.70 to 101.70): VV018779.D (-311) (-)

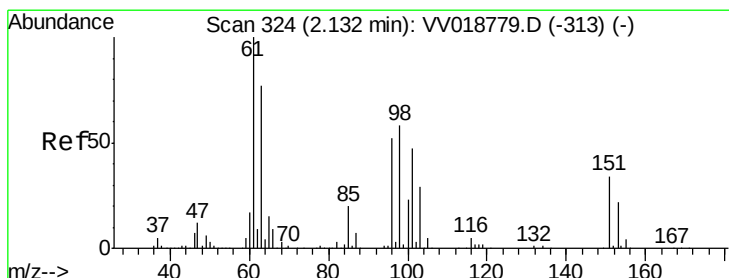
Ion 85.00 (84.70 to 85.70): VV018779.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV018779.D (-311) (-)

Time-->



Time-->



#12

1,1-Dichloroethene

Concen: 1.753 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

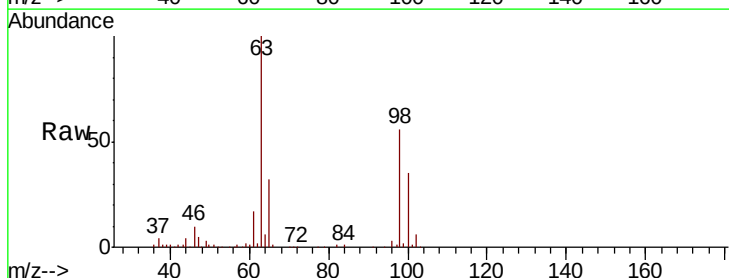
Tgt Ion: 96 Resp: 4093

Ion Ratio Lower Upper

96 100

61 554.7 133.6 248.0#

63 3283.6 108.4 201.4#

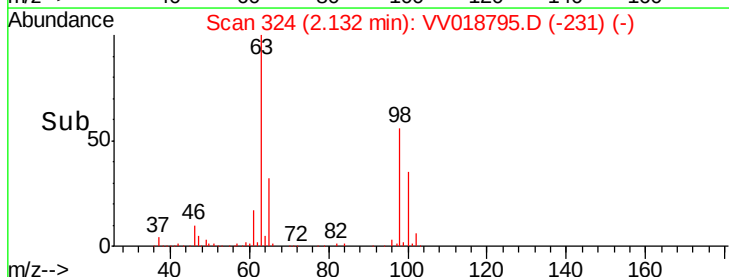


Abundance Ion 96.00 (95.70 to 96.70): VV018779.D (-313) (-)

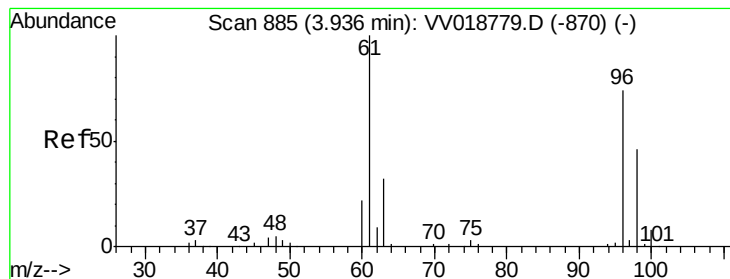
Ion 61.00 (60.70 to 61.70): VV018779.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV018779.D (-313) (-)

Time-->



Time-->

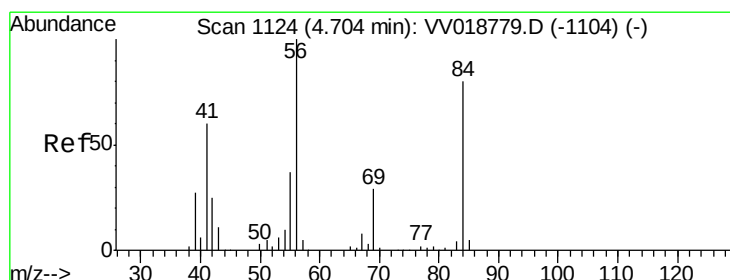
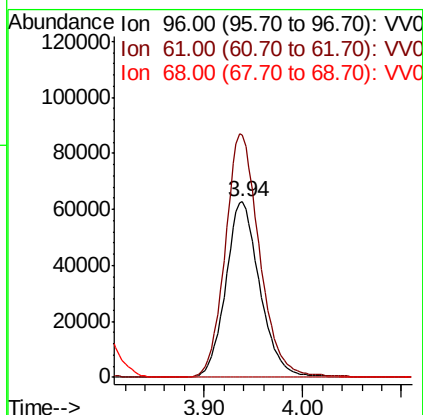
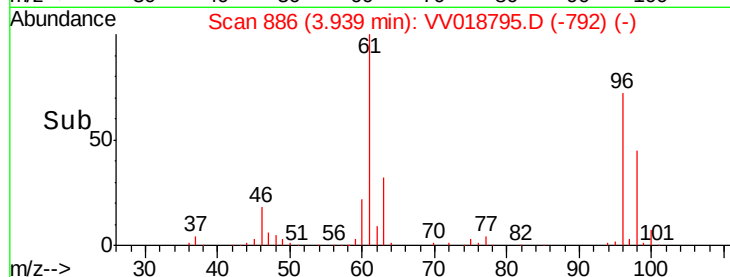
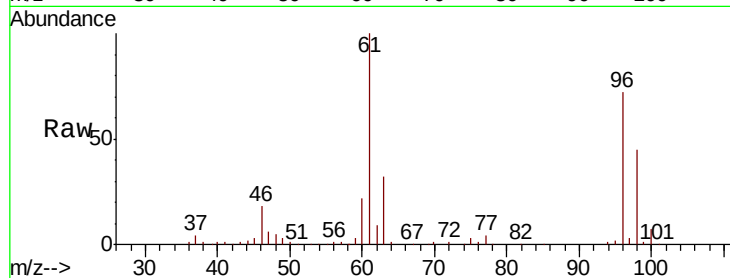


#20

cis-1,2-Dichloroethene
Concen: 58.067 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.00 min
Lab File: VV018795.D
Acq: 09 Oct 2020 05:23

Instrument :
MSVOA_V
ClientSampleId :
BG3P5

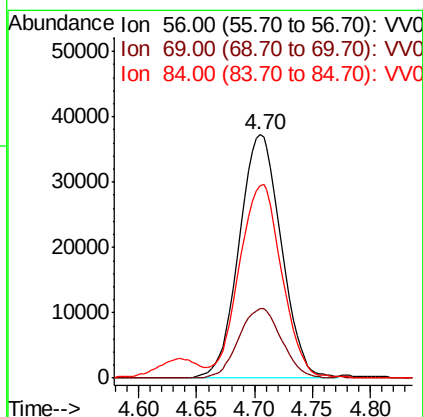
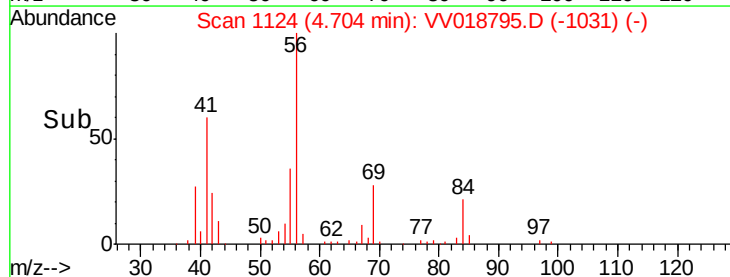
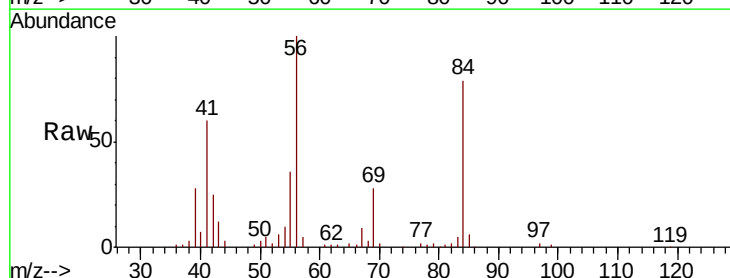
Tot Ion: 96 Resp: 151232
Ion Ratio Lower Upper
96 100
61 138.3 97.3 180.7
68 0.0 0.0 0.0

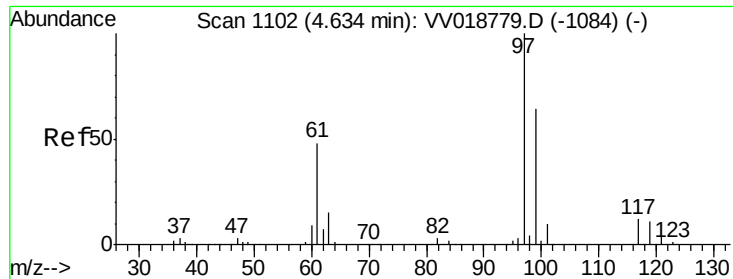


#29

Cyclohexane
Concen: 23.962 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. -0.00 min
Lab File: VV018795.D
Acq: 09 Oct 2020 05:23

Tgt Ion: 56 Resp: 94481
Ion Ratio Lower Upper
56 100
69 28.9 23.1 34.7
84 80.0 65.2 97.8

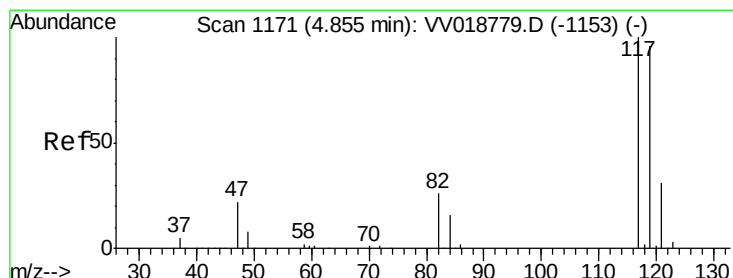
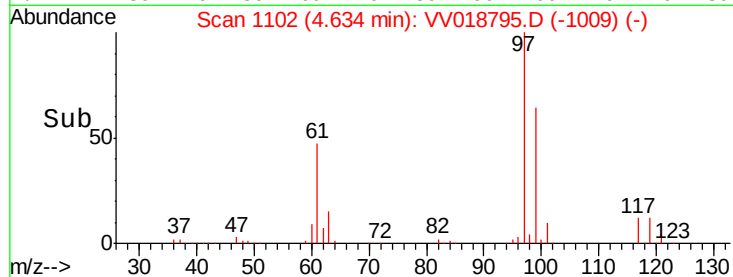
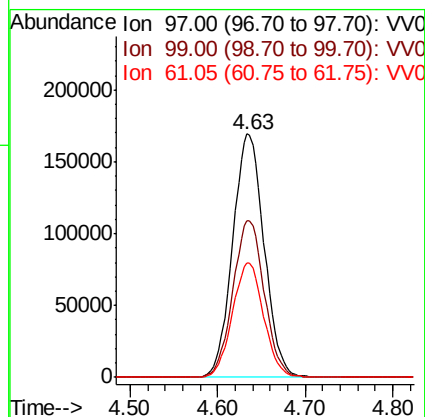
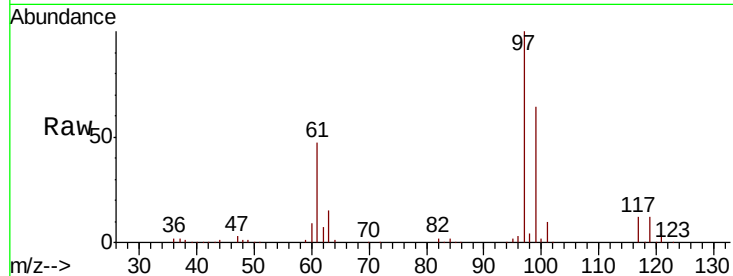




#30
 1,1,1-Trichloroethane
 Concen: 97.354 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.00 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

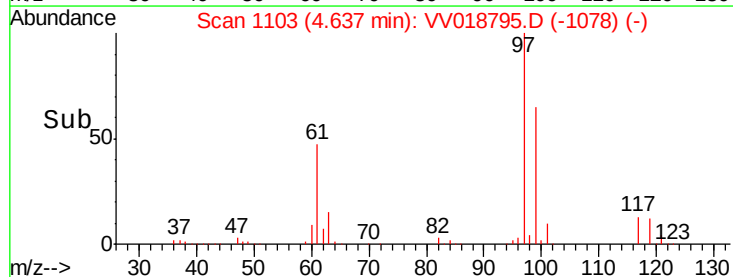
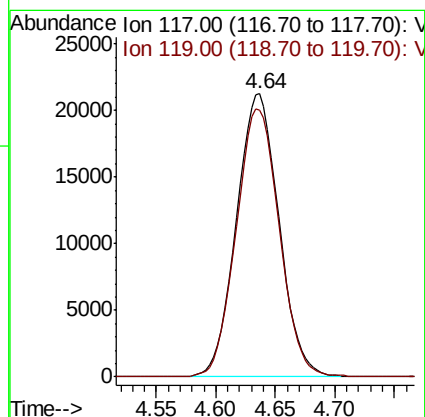
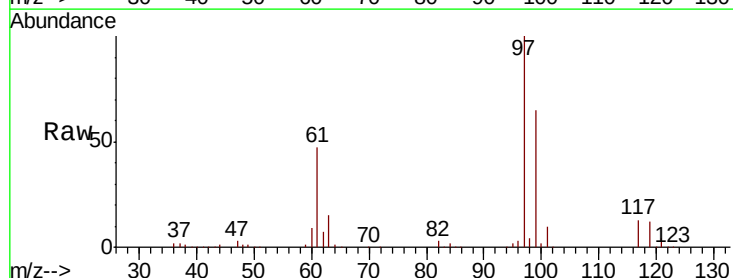
Instrument :
 MSVOA_V
 ClientSampled :
 BG3P5

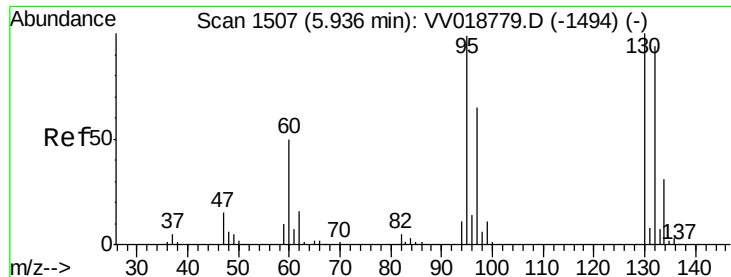
Tot Ion: 97 Resp: 422465
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.0 76.4
 61 46.8 37.0 55.4



#31
 Carbon tetrachloride
 Concen: 14.381 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.22 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

Tgt Ion: 117 Resp: 52600
 Ion Ratio Lower Upper
 117 100
 119 95.8 76.3 114.5





#34

Trichloroethene

Concen: 7.059 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Instrument :

MSVOA_V

ClientSampleId :

BG3P5

Tot Ion: 95 Resp: 20987

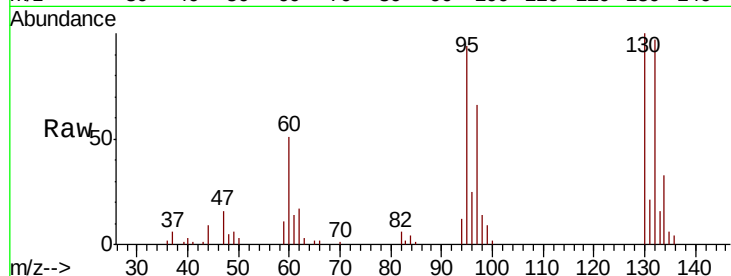
Ion Ratio Lower Upper

95 100

97 70.5 45.1 83.9

132 102.8 66.2 123.0

130 106.3 69.1 128.3

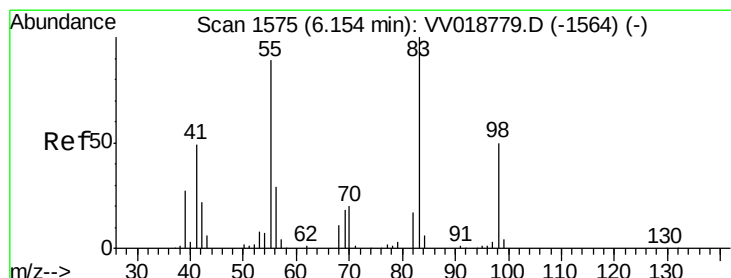
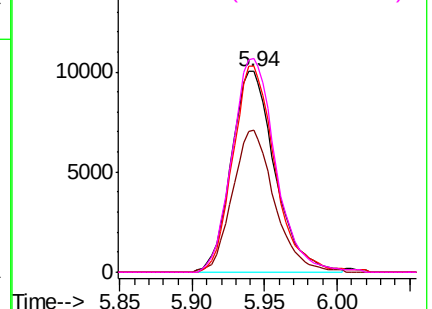
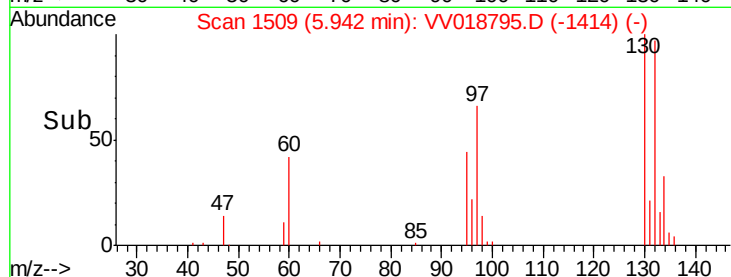


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 9.560 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

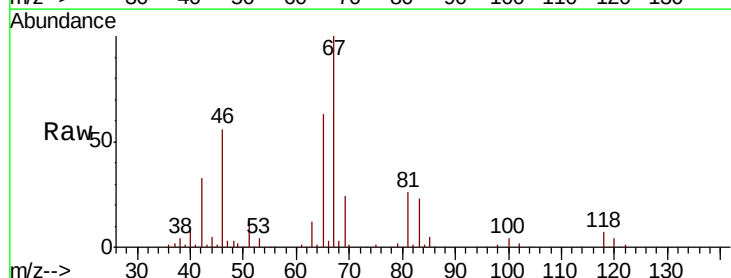
Tgt Ion: 83 Resp: 34775

Ion Ratio Lower Upper

83 100

55 0.7 67.0 100.4#

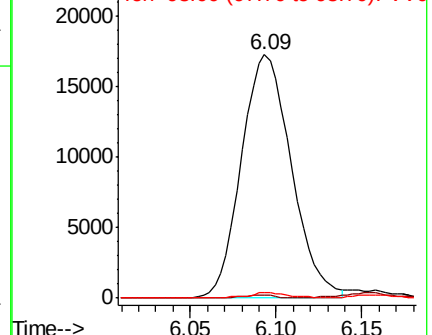
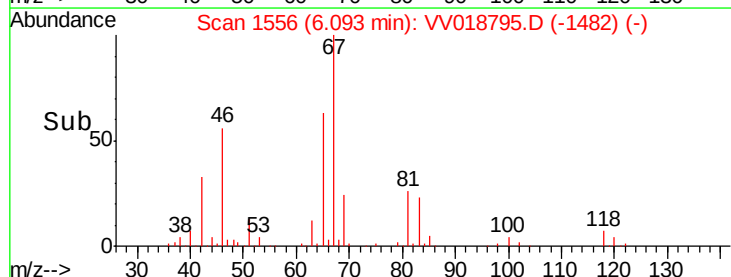
98 0.8 38.8 58.2#

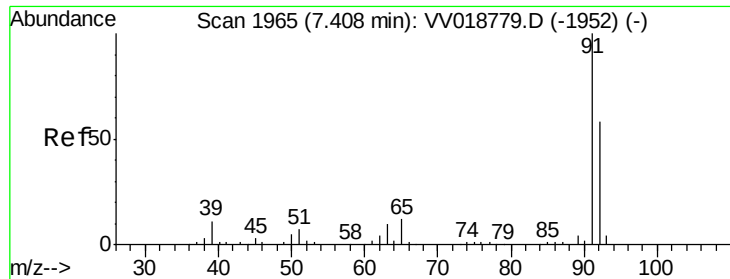


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#42

Toluene

Concen: 371.026 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Instrument :

MSVOA_V

ClientSampleId :

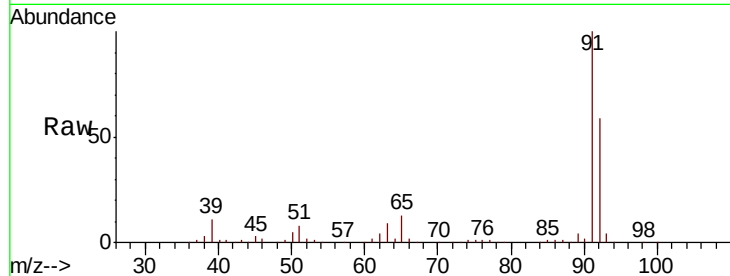
BG3P5

Tot Ion: 91 Resp: 3936576

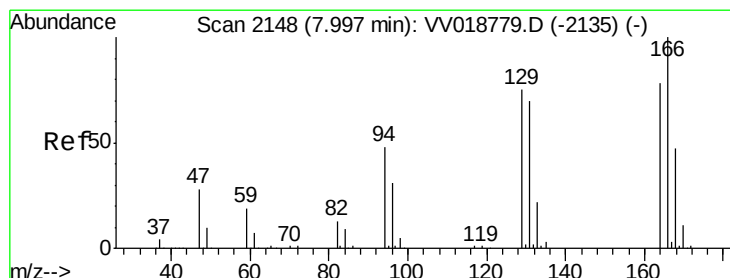
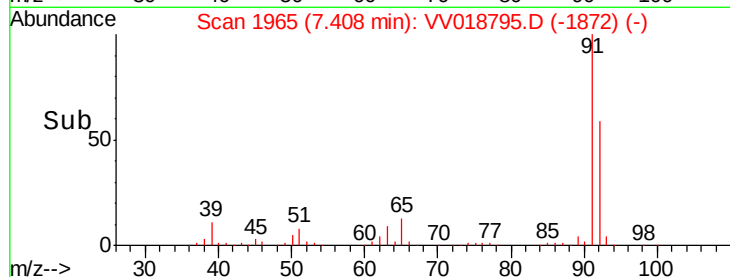
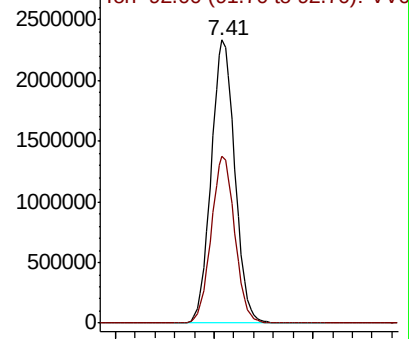
Ion Ratio Lower Upper

91 100

92 59.0 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VV018779.D (-1952) (-)



#46

Tetrachloroethene

Concen: 1.298 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Tgt Ion:164 Resp: 2829

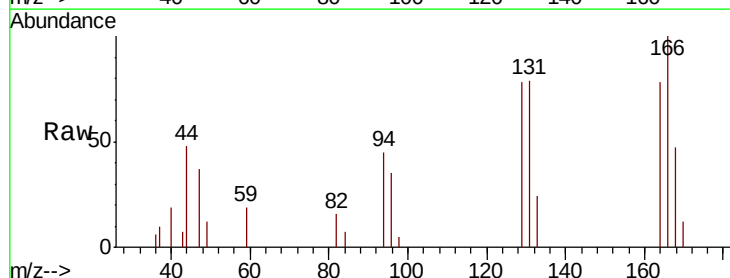
Ion Ratio Lower Upper

164 100

129 100.6 64.6 120.0

131 101.1 63.6 118.0

166 128.4 88.3 164.1



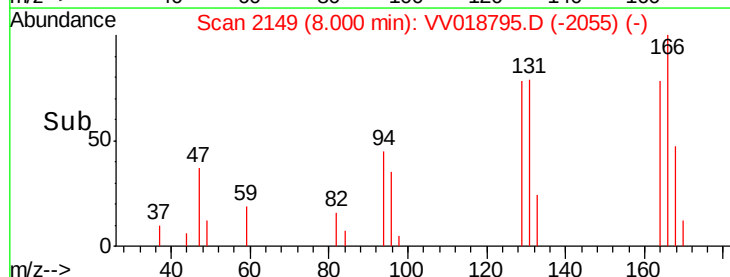
Abundance Ion 164.00 (163.70 to 164.70): VV018779.D (-2135) (-)

Ion 129.00 (128.70 to 129.70): VV018779.D (-2135) (-)

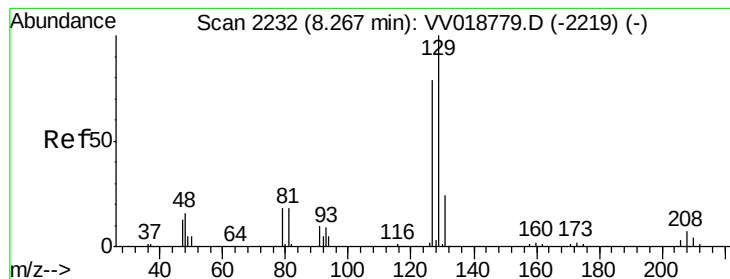
Ion 131.00 (130.70 to 131.70): VV018779.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV018779.D (-2135) (-)

Time-->



Time-->



#49

Dibromochloromethane

Concen: 0.954 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Instrument :

MSVOA_V

ClientSampleId :

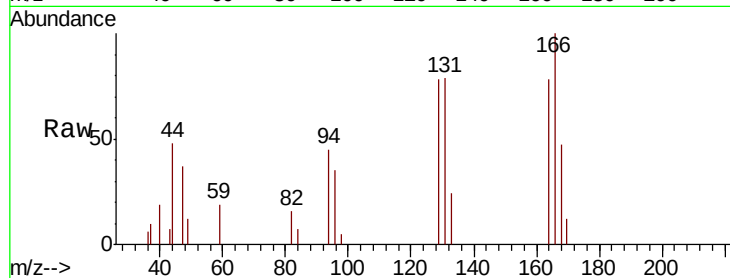
BG3P5

Tot Ion:129 Resp: 2656

Ion Ratio Lower Upper

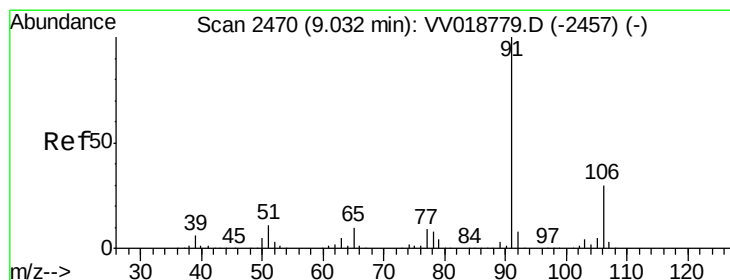
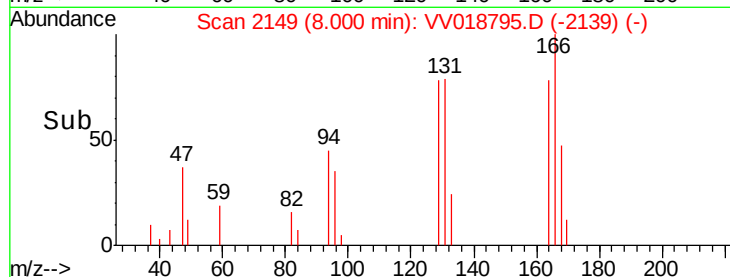
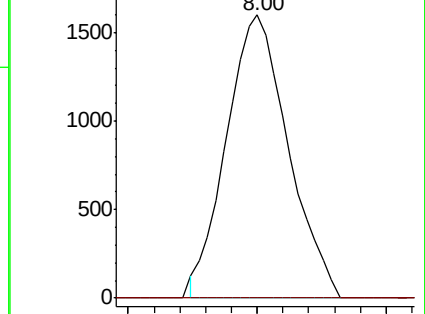
129 100

127 0.0 55.3 102.7#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Ethylbenzene

Concen: 25.676 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV018795.D

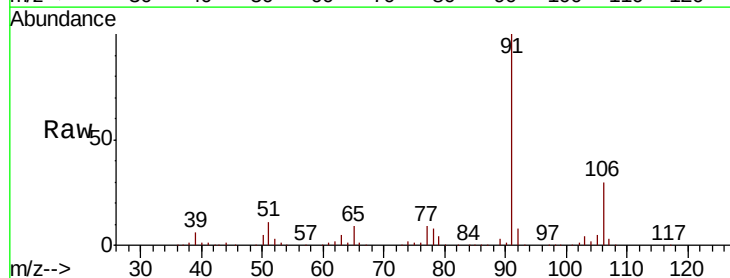
Acq: 09 Oct 2020 05:23

Tgt Ion: 91 Resp: 309357

Ion Ratio Lower Upper

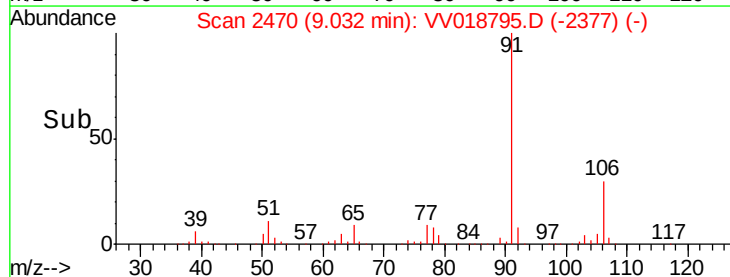
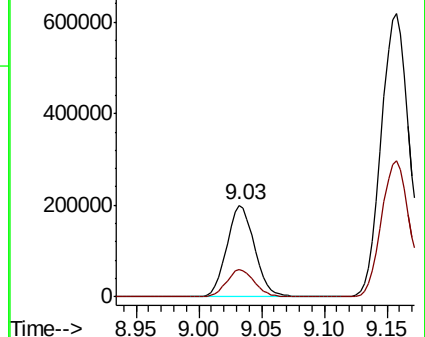
91 100

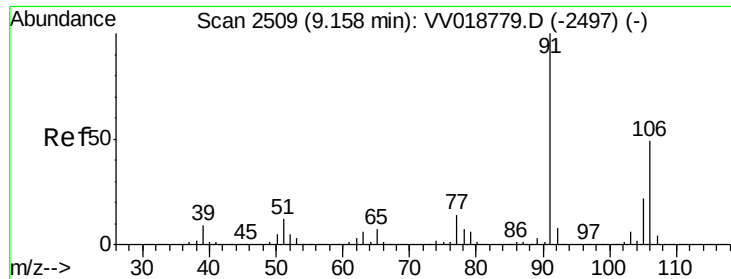
106 30.1 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 106.254 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

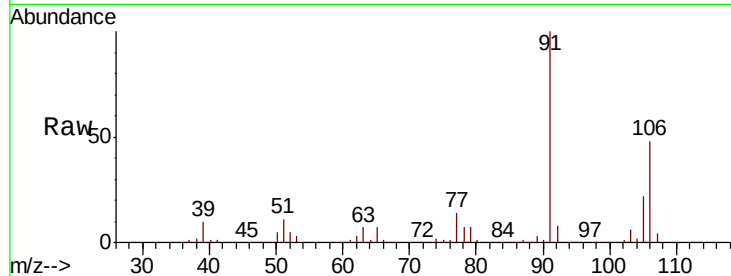
Instrument :
MSVOA_V
ClientSampleId :
BG3P5

Tot Ion:106 Resp: 469926

Ion Ratio Lower Upper

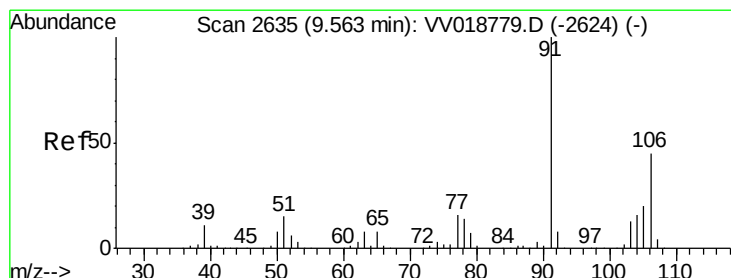
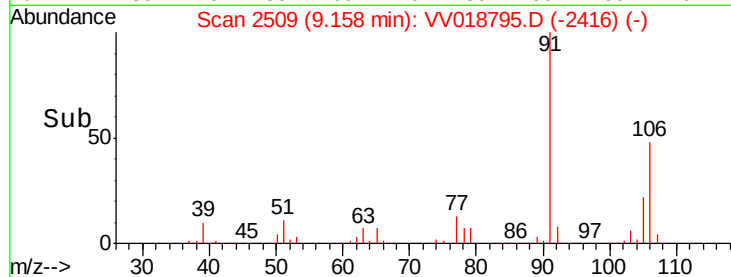
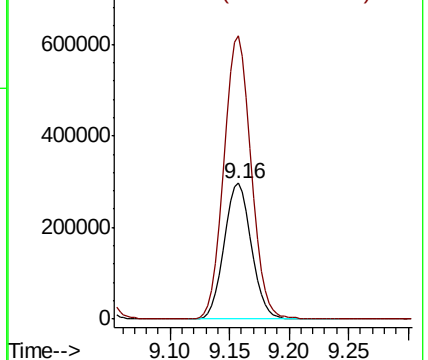
106 100

91 208.3 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 50.853 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV018795.D

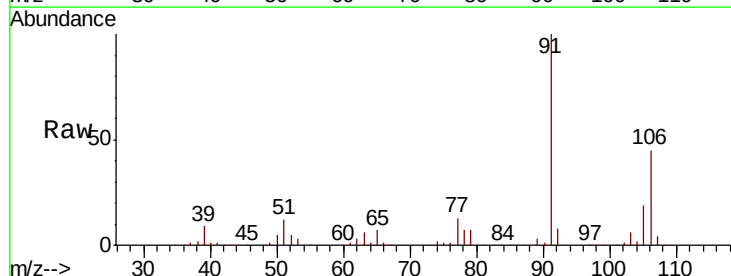
Acq: 09 Oct 2020 05:23

Tgt Ion:106 Resp: 213607

Ion Ratio Lower Upper

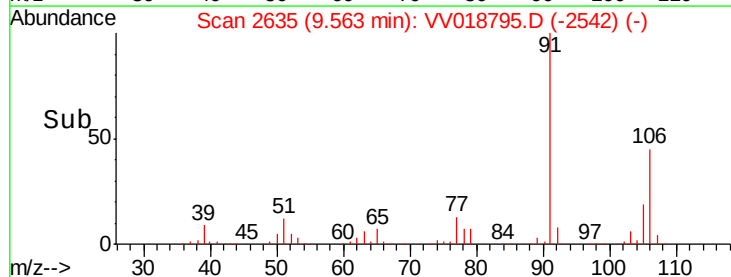
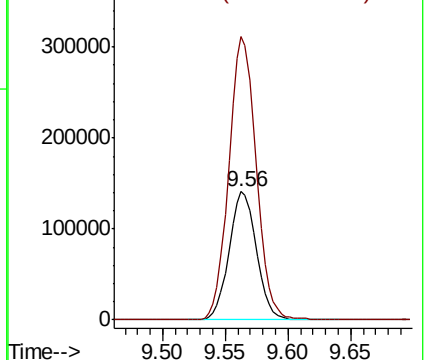
106 100

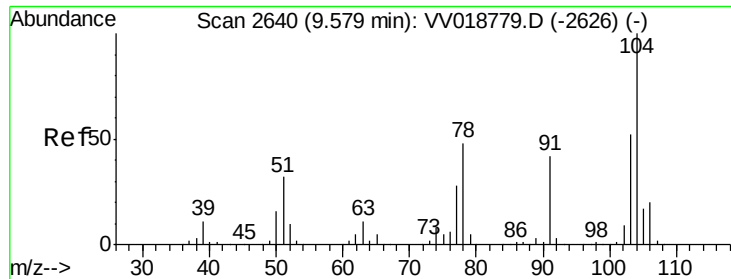
91 221.0 156.8 291.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 1.508 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Instrument :

MSVOA_V

ClientSampleId :

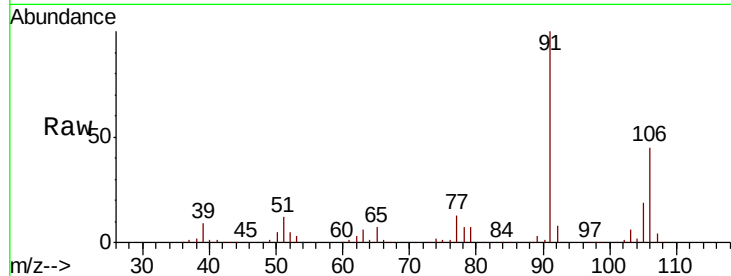
BG3P5

Tot Ion:104 Resp: 11211

Ion Ratio Lower Upper

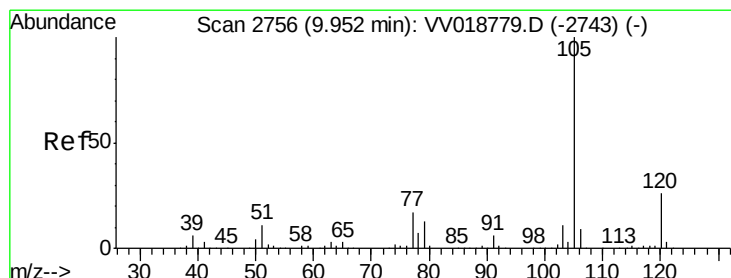
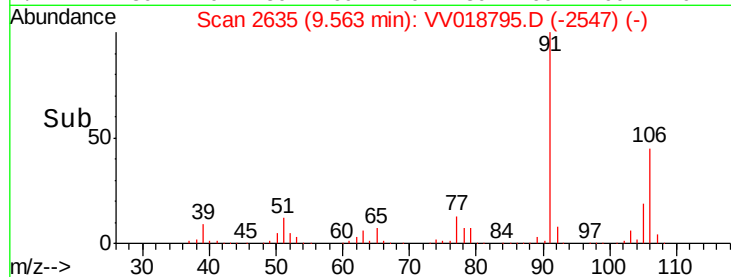
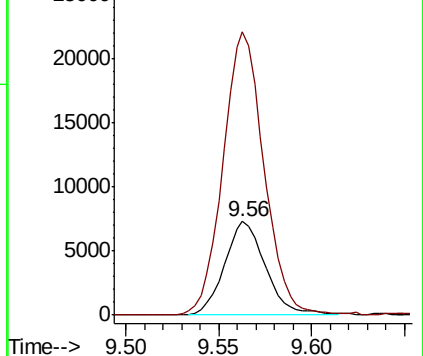
104 100

78 303.0 33.5 62.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 15.929 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

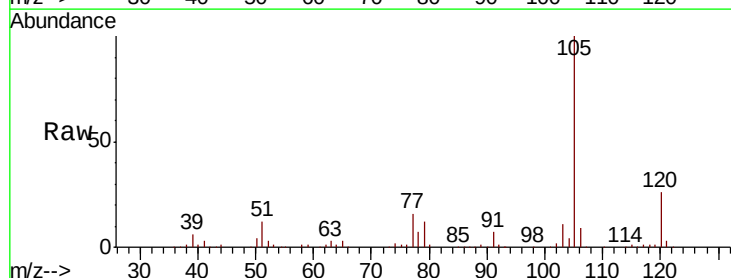
Tgt Ion:105 Resp: 185140

Ion Ratio Lower Upper

105 100

120 26.2 20.4 30.6

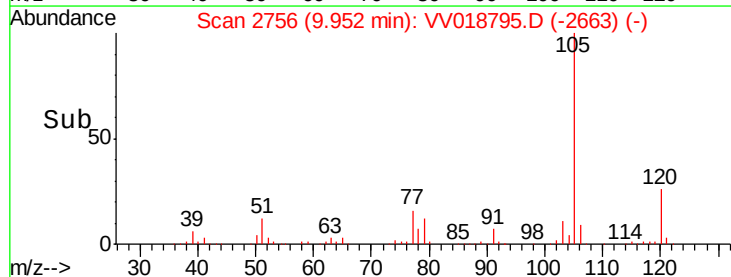
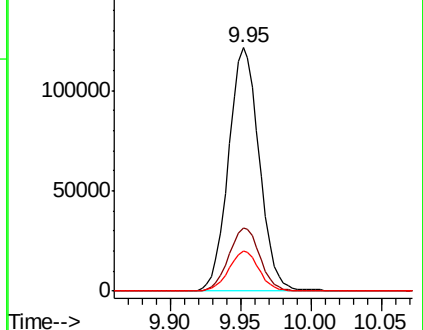
77 16.3 13.0 19.6

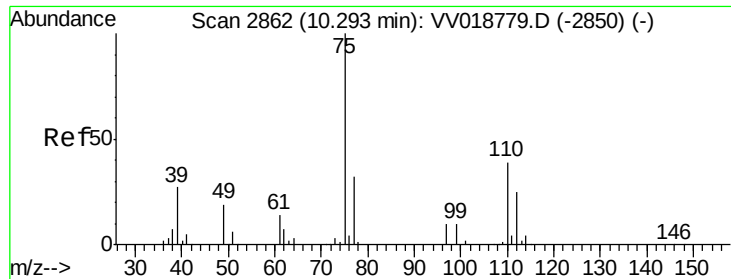


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#59

1,2,3-Trichloropropane

Concen: 1.481 ug/L

RT: 10.37 min Scan# 2887

Delta R.T. 0.08 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

Instrument :

MSVOA_V

ClientSampleId :

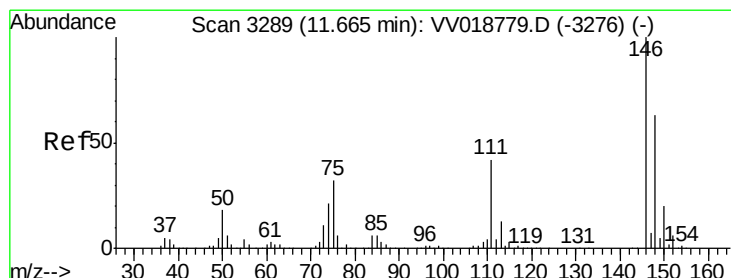
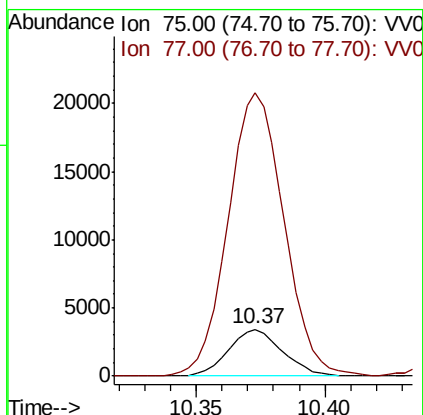
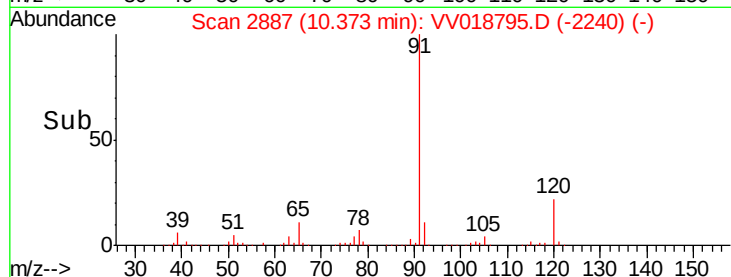
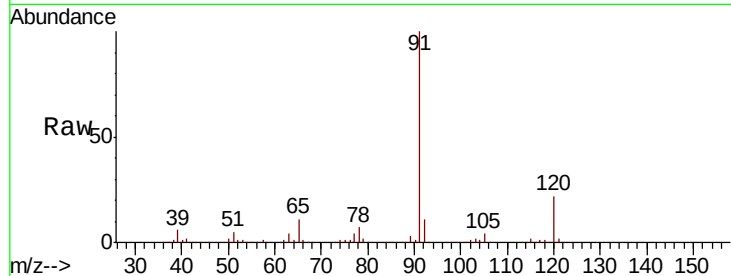
BG3P5

Tot Ion: 75 Resp: 4999

Ion Ratio Lower Upper

75 100

77 628.5 25.9 38.9#



#65

1,2-Dichlorobenzene

Concen: 2.591 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV018795.D

Acq: 09 Oct 2020 05:23

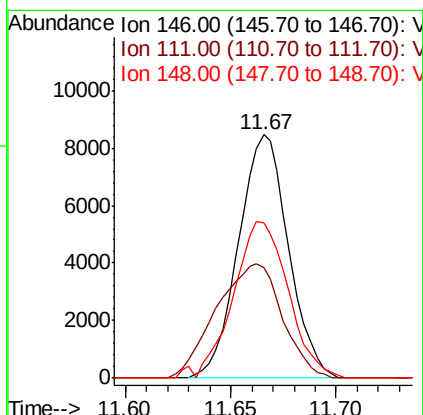
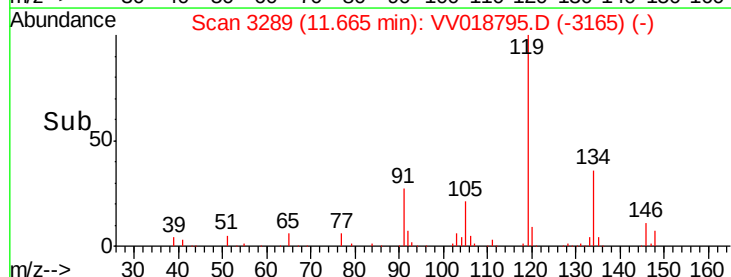
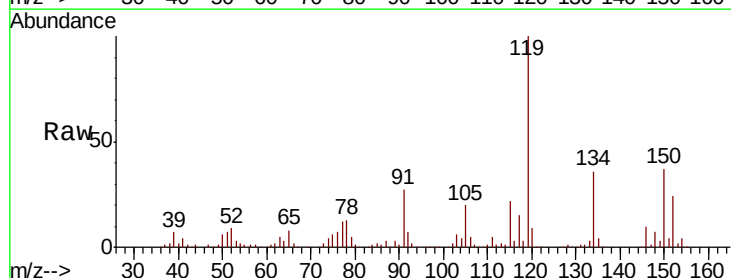
Tgt Ion: 146 Resp: 13908

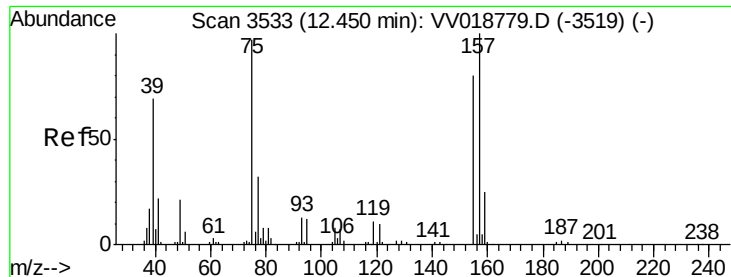
Ion Ratio Lower Upper

146 100

111 45.5 33.8 50.6

148 64.0 50.3 75.5

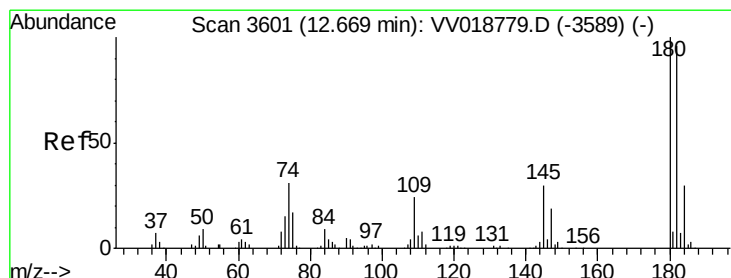
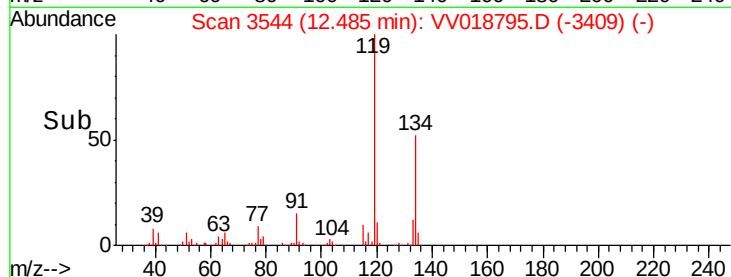
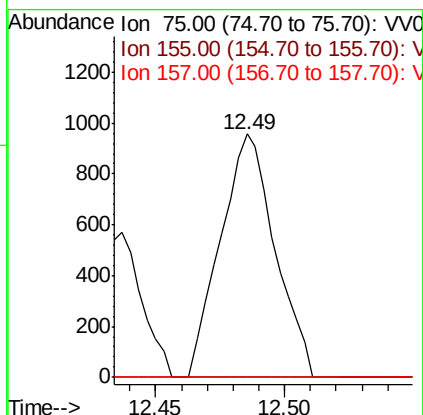
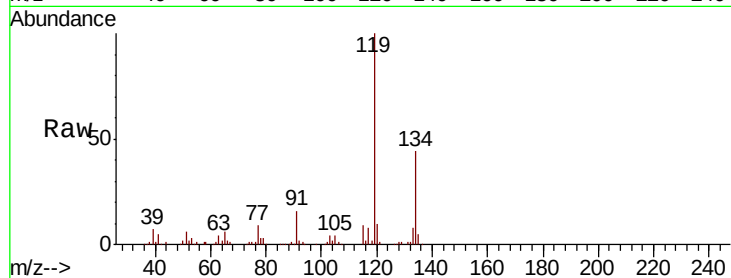




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.892 ug/L
 RT: 12.49 min Scan# 3544
 Delta R.T. 0.04 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

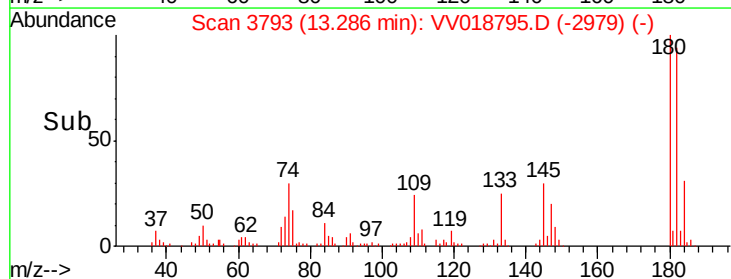
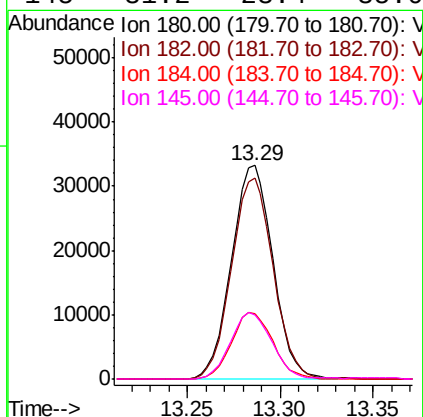
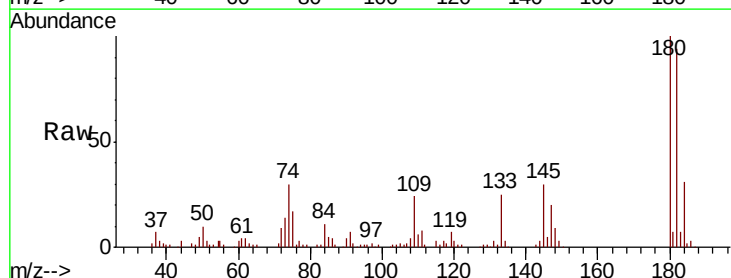
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P5

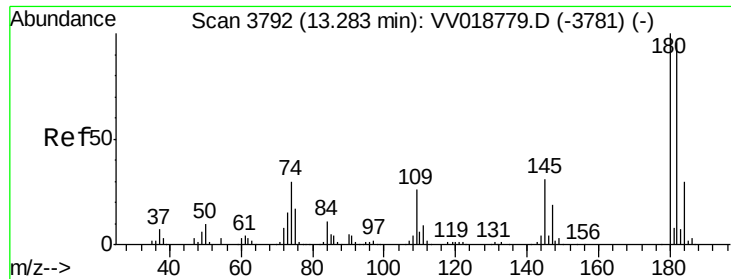
Tot Ion: 75 Resp: 1401
 Ion Ratio Lower Upper
 75 100
 155 0.0 65.8 98.8#
 157 0.0 83.0 124.6#



#67
 1,3,5-Trichlorobenzene
 Concen: 14.899 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.62 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

Tgt Ion: 180 Resp: 51606
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.0 115.6
 184 31.1 24.6 37.0
 145 31.2 23.4 35.0

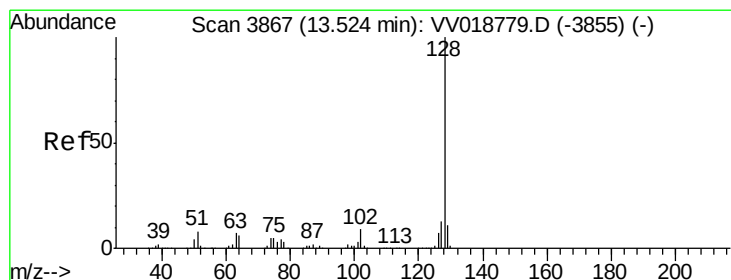
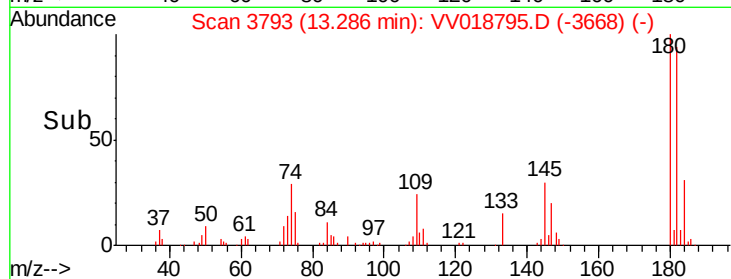
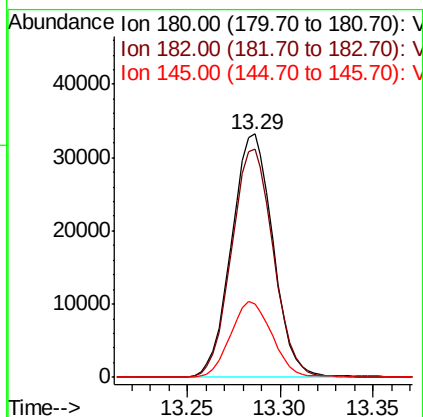
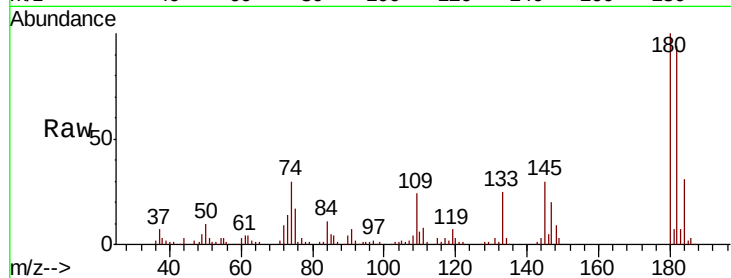




#68
 1,2,4-trichlorobenzene
 Concen: 15.844 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

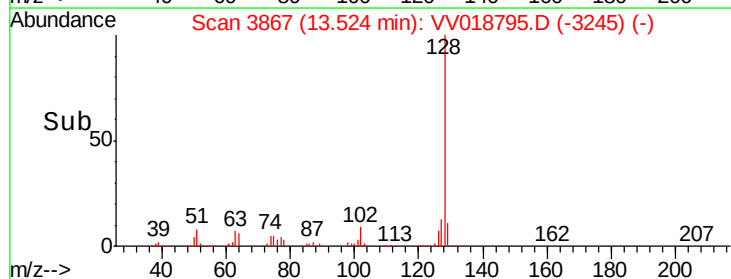
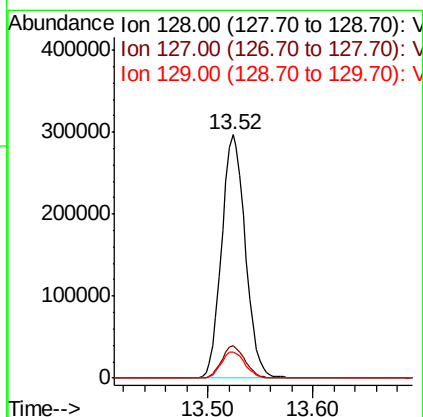
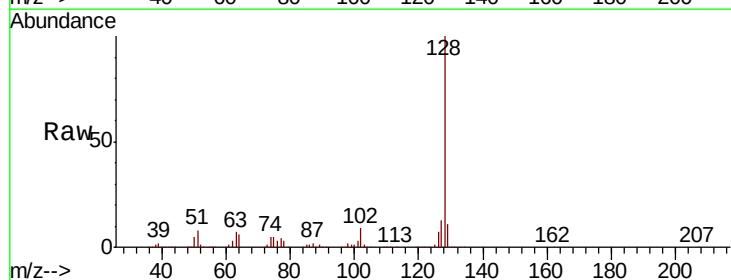
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P5

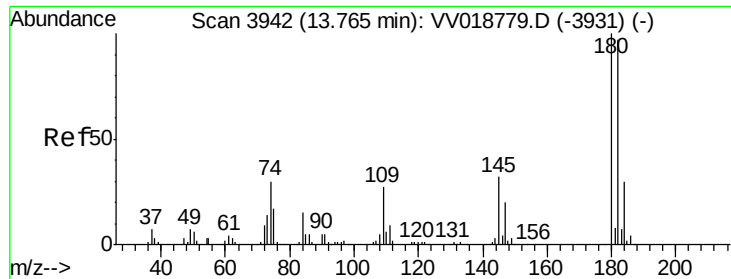
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.7	115.1
145	31.2	24.0	36.0



#69
 Naphthalene
 Concen: 50.241 ug/L
 RT: 13.52 min Scan# 3867
 Delta R.T. -0.00 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.8	8.6	13.0

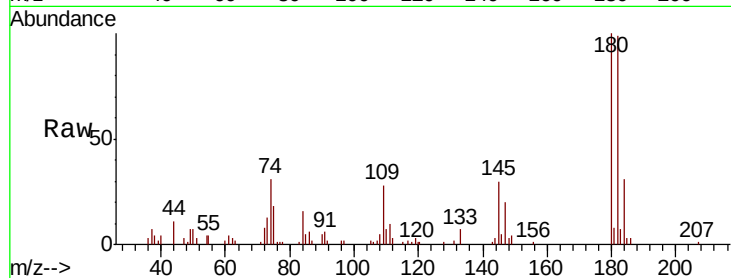




#70
 1,2,3-Trichlorobenzene
 Concen: 5.469 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018795.D
 Acq: 09 Oct 2020 05:23

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P5

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	96.4	75.9	113.9	
145	33.5	25.2	37.8	



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

