

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018796.D
 Acq On : 09 Oct 2020 05:46
 Operator : SY/MD
 Sample : L4239-13 10X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Q4

Quant Time: Oct 09 07:36:12 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	352818	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	307857	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	167054	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	134018	41.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.60%
7) Chloroethane-d5	1.58	69	110969	43.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.00%
11) 1,1-Dichloroethene-d2	2.12	63	202067	32.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.38%
21) 2-Butanone-d5	3.90	46	197702	100.44	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.44%
24) Chloroform-d	4.37	84	242573	42.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.78%
26) 1,2-Dichloroethane-d4	5.05	65	174073	45.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.80%
32) Benzene-d6	5.07	84	514274	51.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.82%
36) 1,2-Dichloropropane-d6	6.09	67	161908	50.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.24%
41) Toluene-d8	7.34	98	415612	47.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.52%
43) trans-1,3-Dichloropropene-	7.64	79	70953	44.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.86%
47) 2-Hexanone-d5	8.11	63	110502	97.59	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.59%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	168162	45.25	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.50%
64) 1,2-Dichlorobenzene-d4	11.65	152	190085	51.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.82%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1957	0.772	ug/L #	19
13) Acetone	2.18	43	9574	5.836	ug/L	94
20) cis-1,2-Dichloroethene	3.94	96	2552	0.937	ug/L	97
29) Cyclohexane	4.70	56	136077	36.499	ug/L	100
30) 1,1,1-Trichloroethane	4.63	97	70798	17.255	ug/L	99
31) Carbon tetrachloride	4.63	117	8991	2.600	ug/L	97
42) Toluene	7.41	91	1529534	152.465	ug/L	98
46) Tetrachloroethene	8.00	164	1554	0.754	ug/L	83
48) 2-Hexanone	8.16	43	8284	3.010	ug/L #	71
51) Chlorobenzene	8.90	112	10343	1.553	ug/L	99
52) Ethylbenzene	9.03	91	142079	12.472	ug/L	99
53) m,p-Xylene	9.16	106	181717	43.455	ug/L	99
54) o-xylene	9.56	106	75995	19.134	ug/L	98
55) Styrene	9.56	104	3968	0.564	ug/L #	1
56) Isopropylbenzene	9.95	105	79137	7.201	ug/L	98
59) 1,2,3-Trichloropropane	11.21	75	2527	0.792	ug/L	94
62) 1,3-Dichlorobenzene	11.21	146	8283	1.521	ug/L	93

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

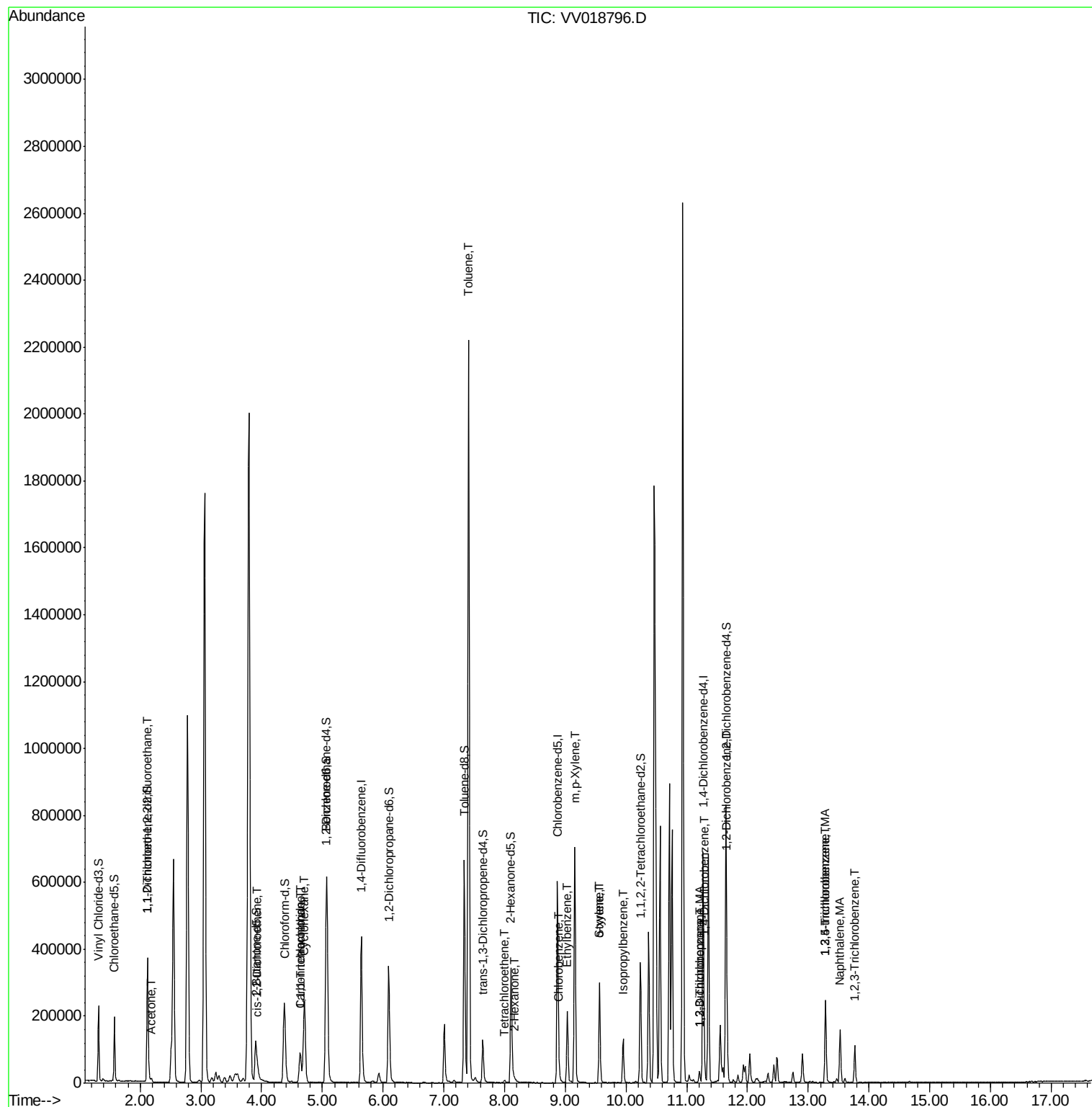
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.29	146	12020	2.122	ug/L	92
65) 1,2-Dichlorobenzene	11.67	146	17559	3.211	ug/L	100
67) 1,3,5-Trichlorobenzene	13.28	180	72093	20.436	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	72093	21.733	ug/L	100
69) Naphthalene	13.52	128	115090	12.314	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	32282	9.803	ug/L	99

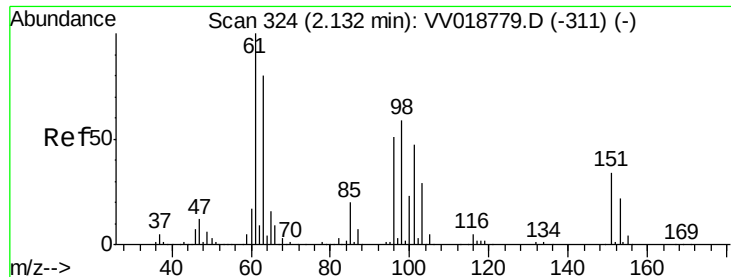
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.772 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampleId :

BG3Q4

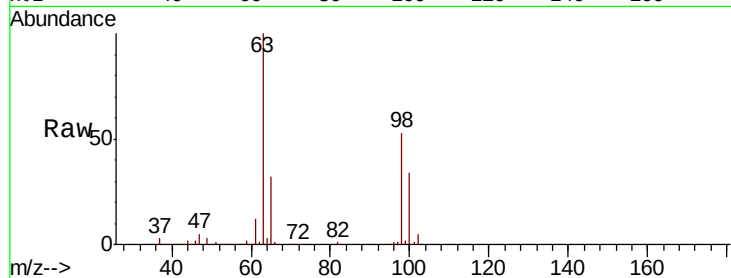
Tot Ion:101 Resp: 1957

Ion Ratio Lower Upper

101 100

85 0.0 35.9 53.9#

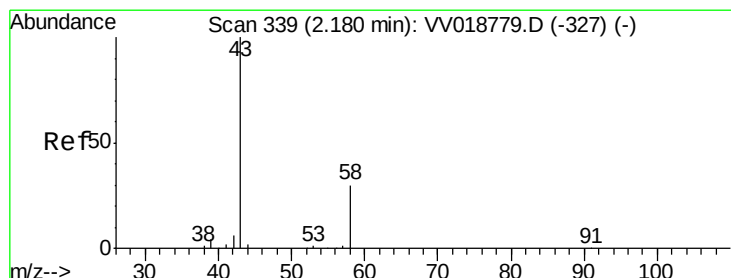
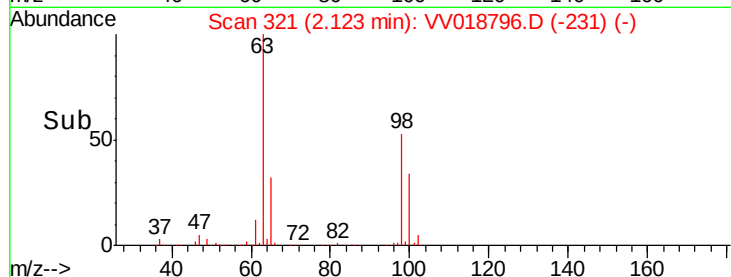
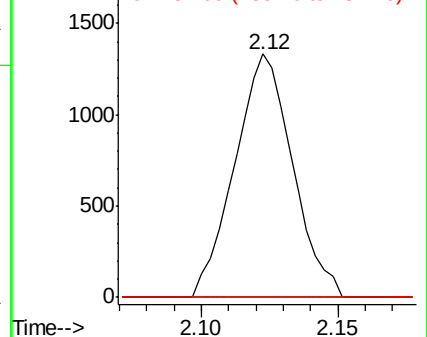
151 0.0 59.8 89.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 5.836 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV018796.D

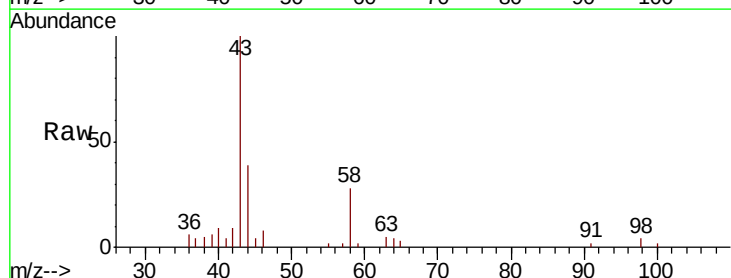
Acq: 09 Oct 2020 05:46

Tgt Ion: 43 Resp: 9574

Ion Ratio Lower Upper

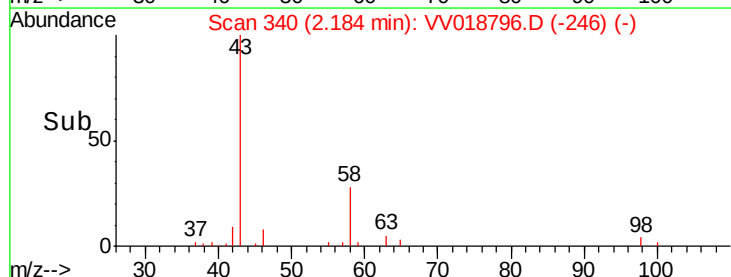
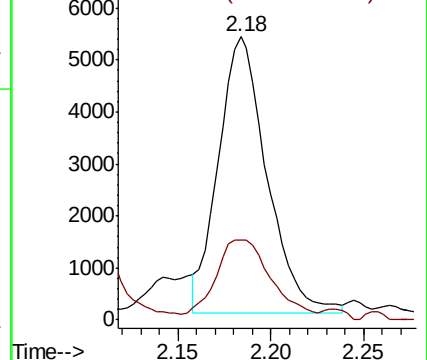
43 100

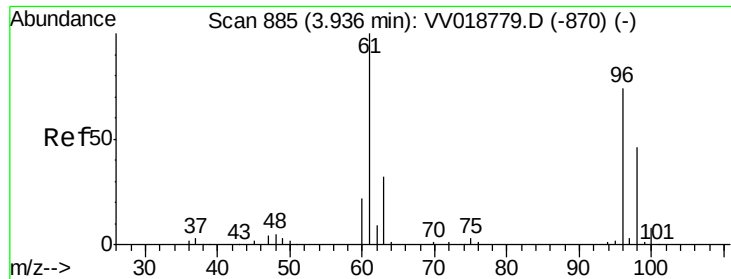
58 34.0 0.0 61.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

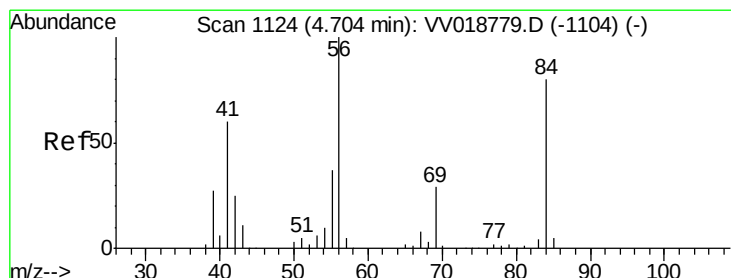
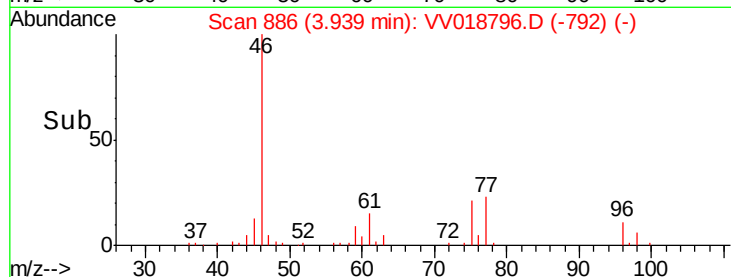
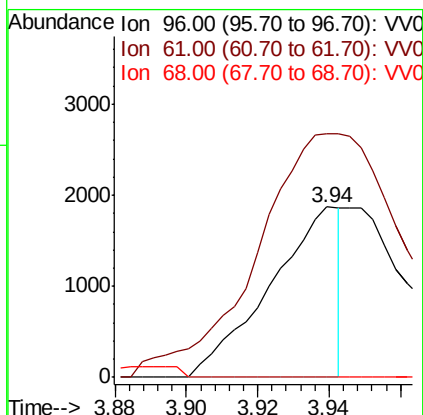
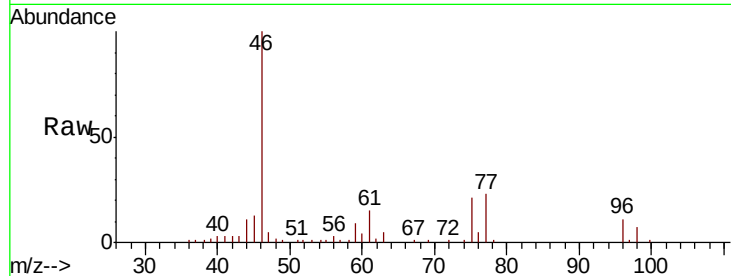




#20
 cis-1,2-Dichloroethene
 Concen: 0.937 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

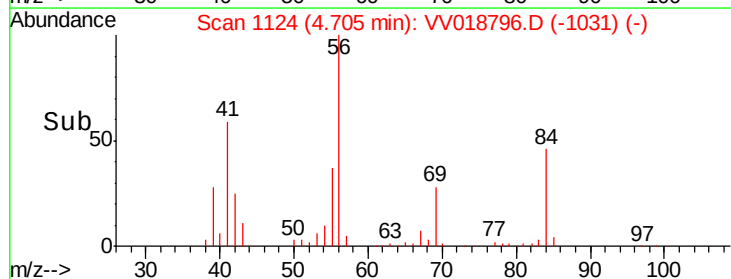
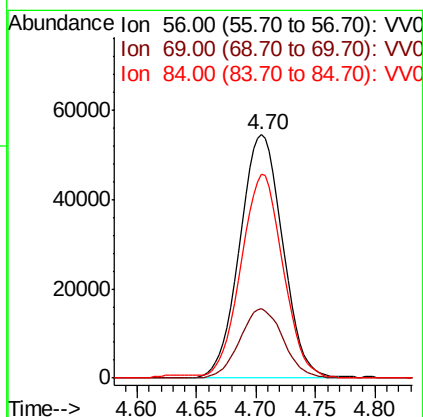
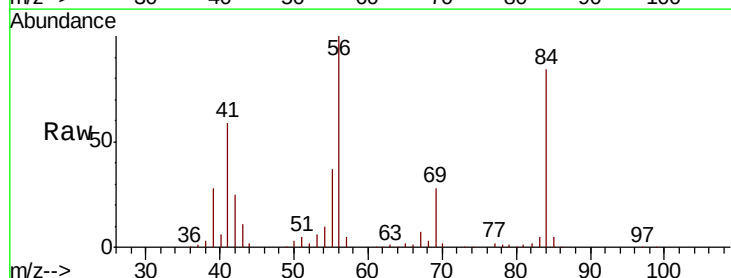
Instrument :
 MSVOA_V
 ClientSampled :
 BG3Q4

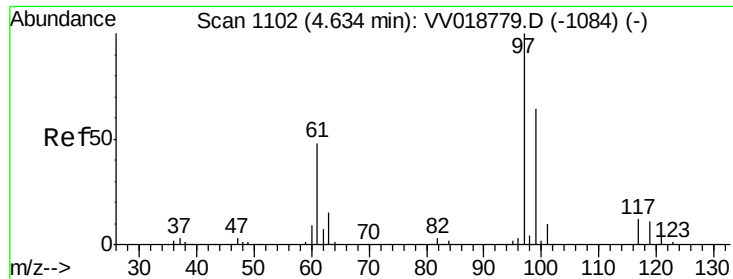
Tot Ion: 96 Resp: 2552
 Ion Ratio Lower Upper
 96 100
 61 143.1 97.3 180.7
 68 0.0 0.0 0.0



#29
 Cyclohexane
 Concen: 36.499 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

Tgt Ion: 56 Resp: 136077
 Ion Ratio Lower Upper
 56 100
 69 28.8 23.1 34.7
 84 81.5 65.2 97.8

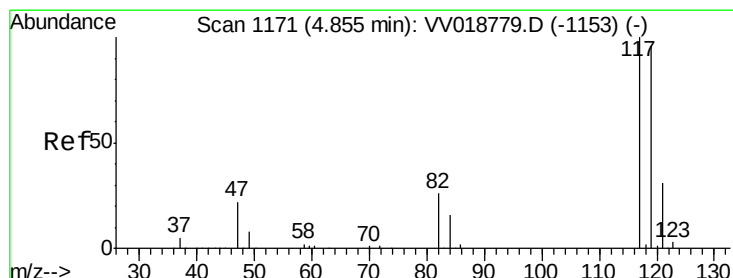
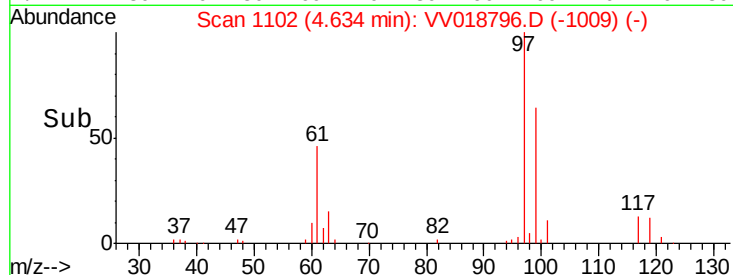
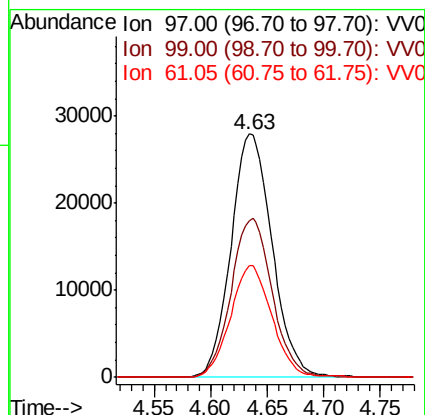
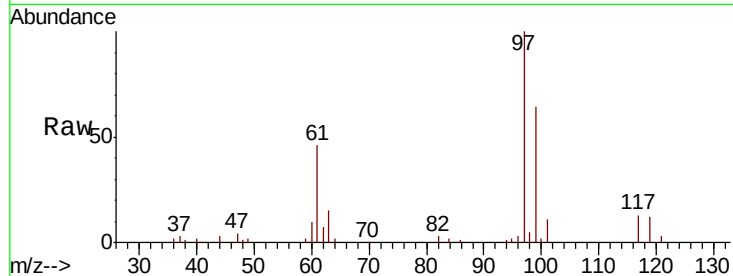




#30
 1,1,1-Trichloroethane
 Concen: 17.255 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

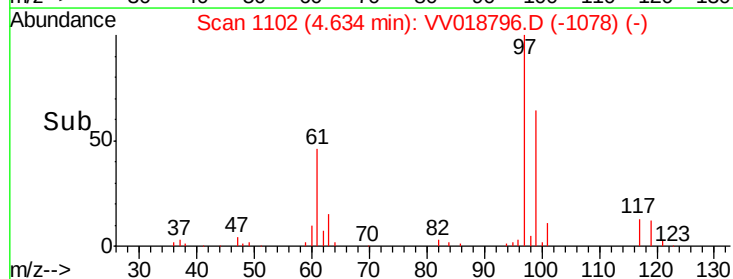
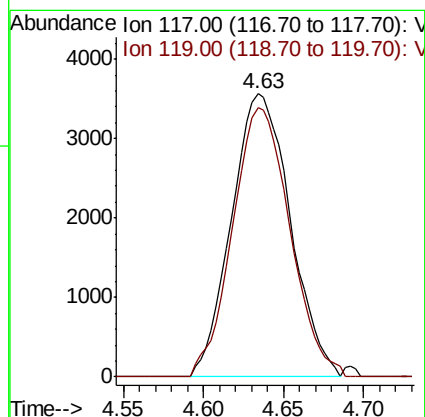
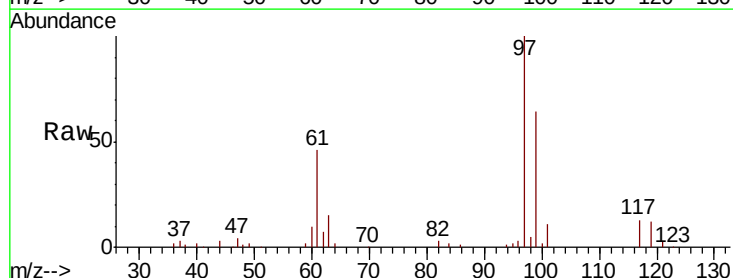
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Q4

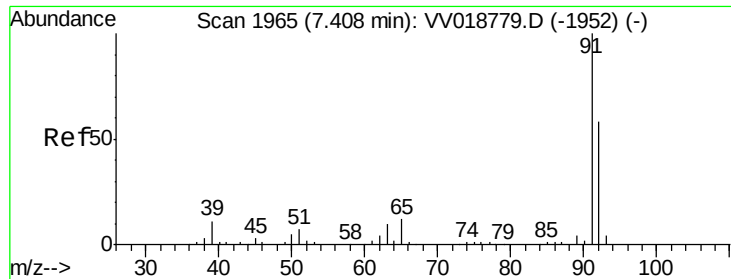
Tot Ion: 97 Resp: 70798
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 46.2 37.0 55.4



#31
 Carbon tetrachloride
 Concen: 2.600 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.22 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

Tgt Ion: 117 Resp: 8991
 Ion Ratio Lower Upper
 117 100
 119 92.8 76.3 114.5





#42

Toluene

Concen: 152.465 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampleId :

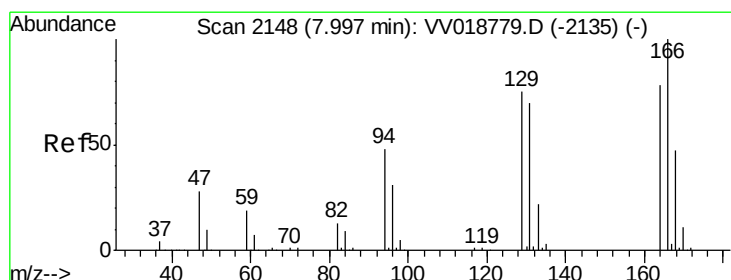
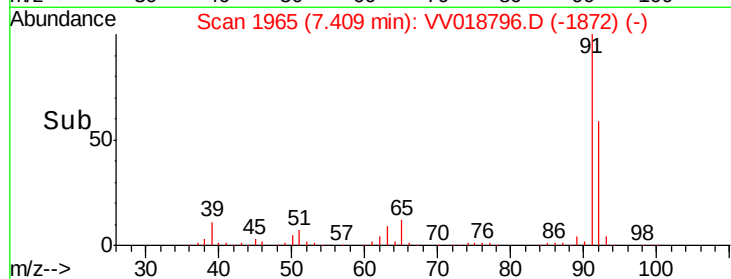
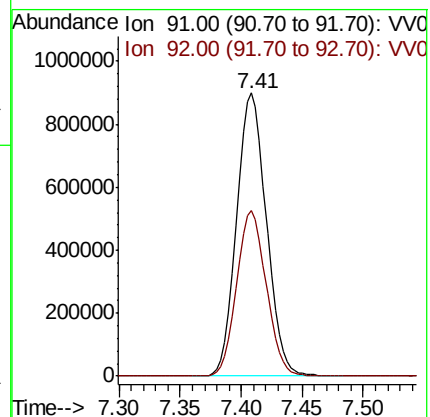
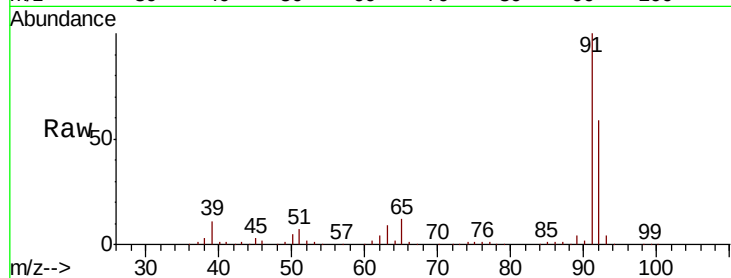
BG3Q4

Tot Ion: 91 Resp: 1529534

Ion Ratio Lower Upper

91 100

92 58.7 39.8 74.0



#46

Tetrachloroethene

Concen: 0.754 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Tgt Ion: 164 Resp: 1554

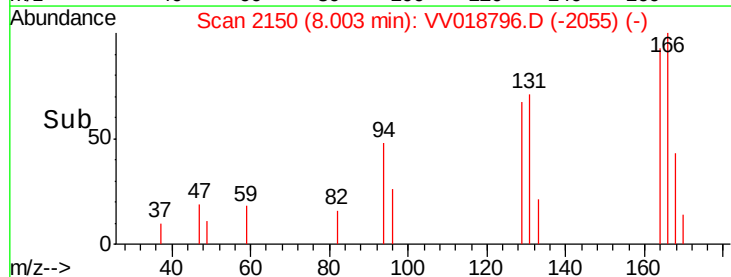
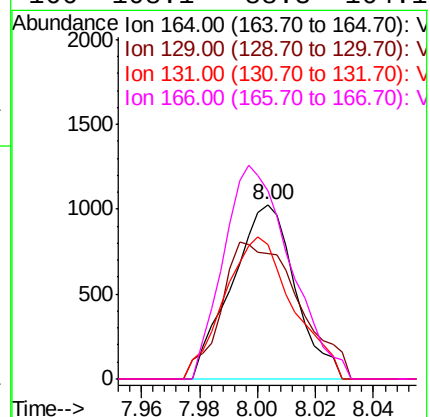
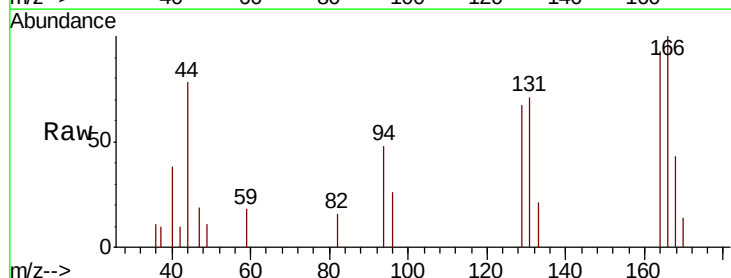
Ion Ratio Lower Upper

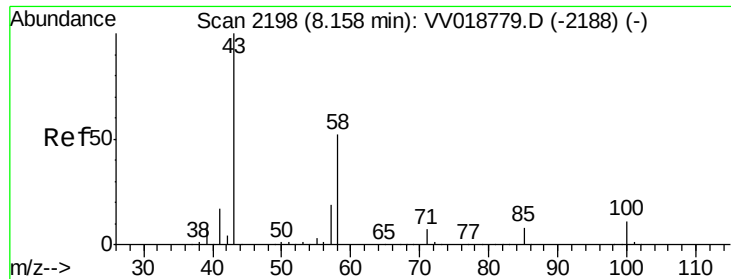
164 100

129 72.0 64.6 120.0

131 76.8 63.6 118.0

166 108.1 88.3 164.1

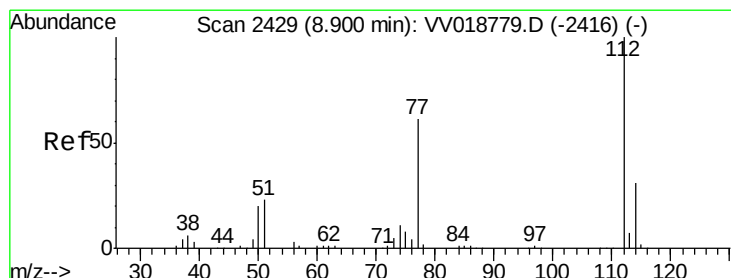
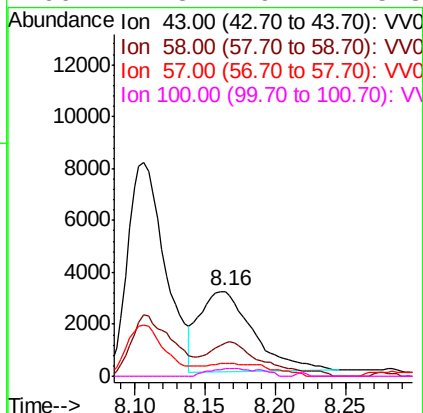
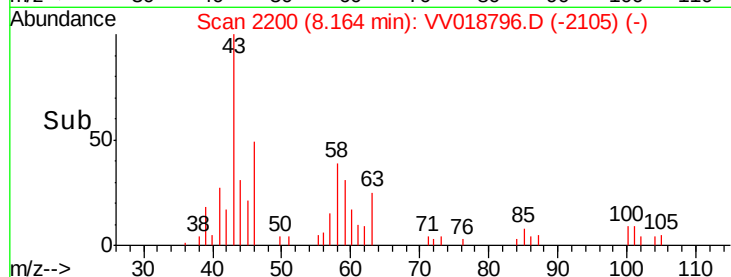
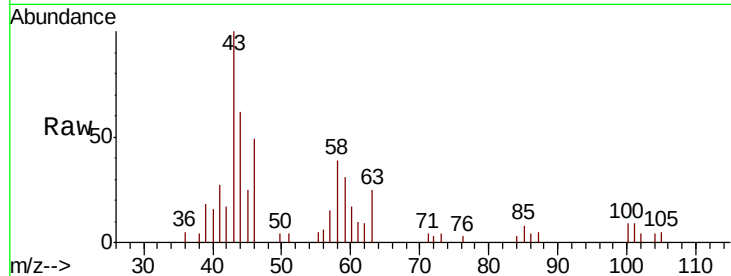




#48
2-Hexanone
Concen: 3.010 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV018796.D
Acq: 09 Oct 2020 05:46

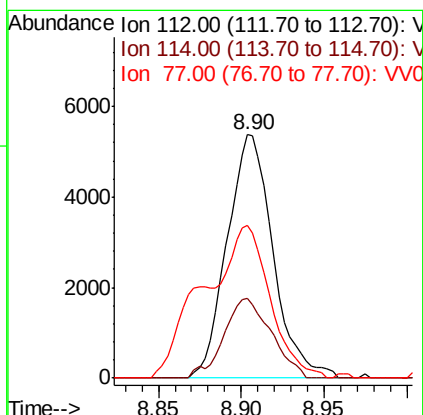
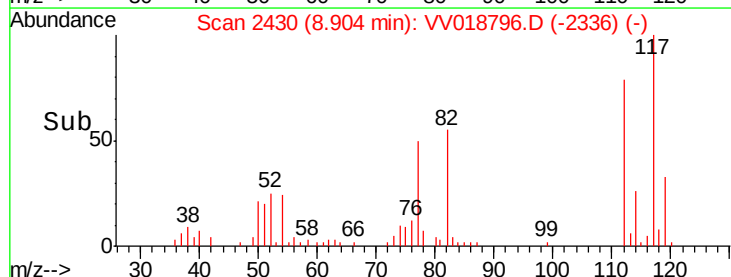
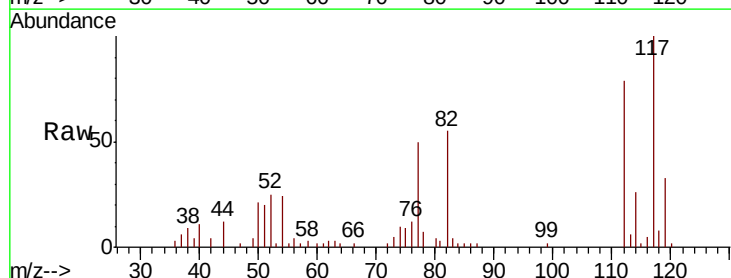
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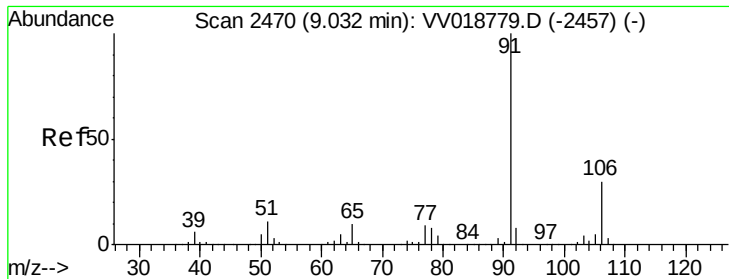
Tot Ion: 43 Resp: 8284
Ion Ratio Lower Upper
43 100
58 30.5 41.8 62.8#
57 2.1 14.9 22.3#
100 7.3 9.2 13.8#



#51
Chlorobenzene
Concen: 1.553 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV018796.D
Acq: 09 Oct 2020 05:46

Tgt Ion: 112 Resp: 10343
Ion Ratio Lower Upper
112 100
114 32.6 22.0 41.0
77 62.7 49.8 74.6





#52

Ethylbenzene

Concen: 12.472 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampleId :

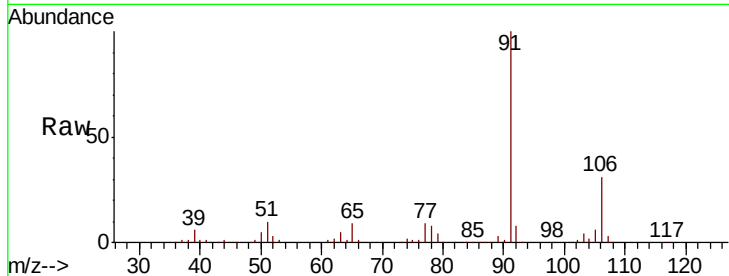
BG3Q4

Tot Ion: 91 Resp: 142079

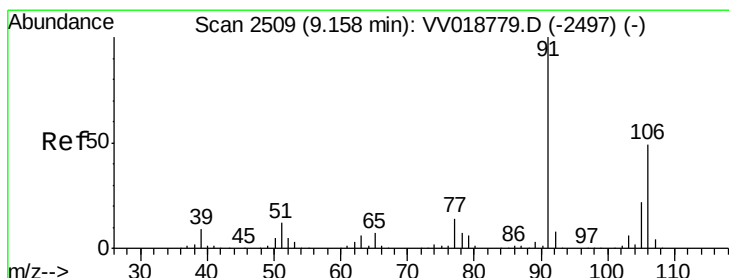
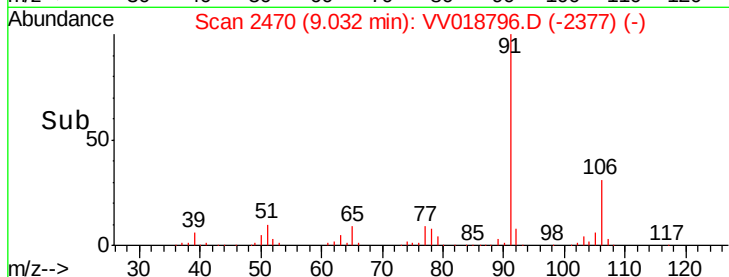
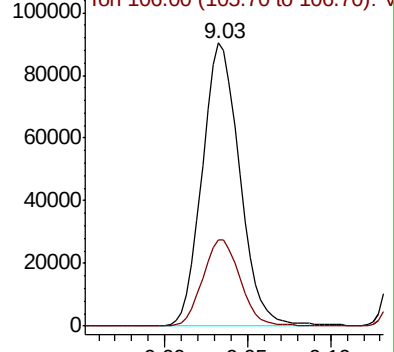
Ion Ratio Lower Upper

91 100

106 30.7 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VV018779.D (-2457) (-)



#53

m,p-Xylene

Concen: 43.455 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018796.D

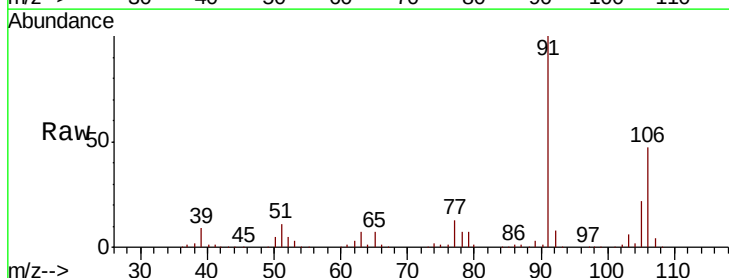
Acq: 09 Oct 2020 05:46

Tgt Ion: 106 Resp: 181717

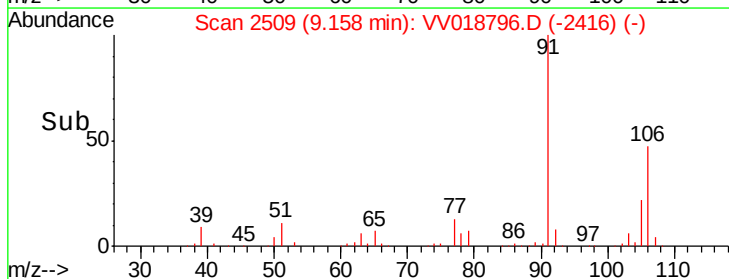
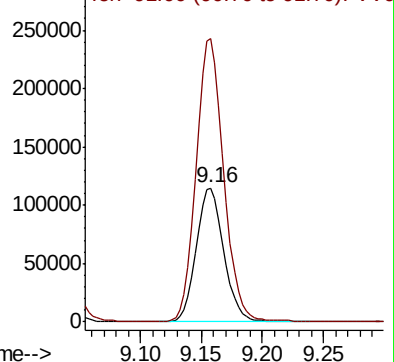
Ion Ratio Lower Upper

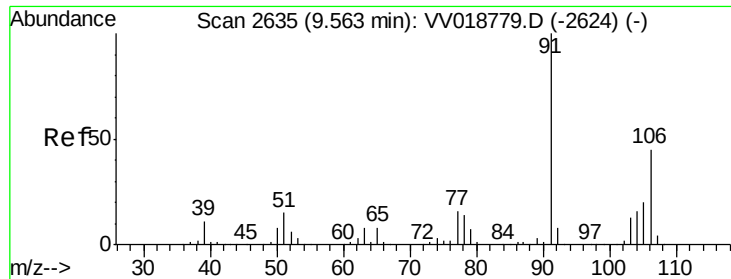
106 100

91 211.4 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): VV018779.D (-2497) (-)





#54

o-xylene

Concen: 19.134 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampleId :

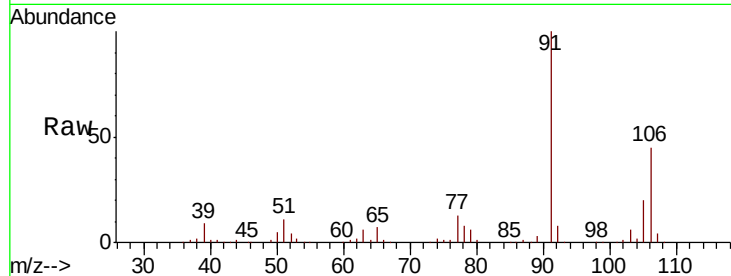
BG3Q4

Tot Ion:106 Resp: 75995

Ion Ratio Lower Upper

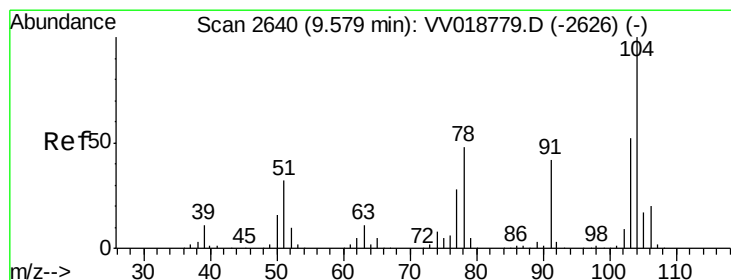
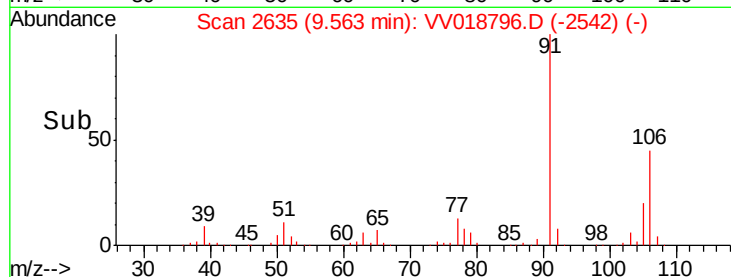
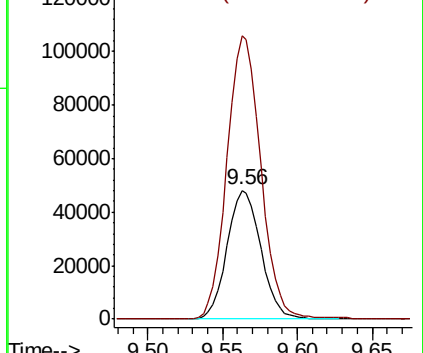
106 100

91 220.1 156.8 291.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 0.564 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VV018796.D

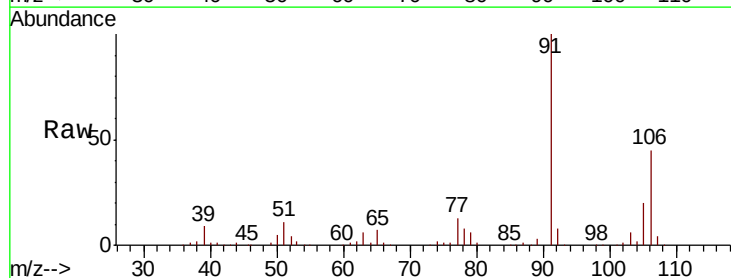
Acq: 09 Oct 2020 05:46

Tgt Ion:104 Resp: 3968

Ion Ratio Lower Upper

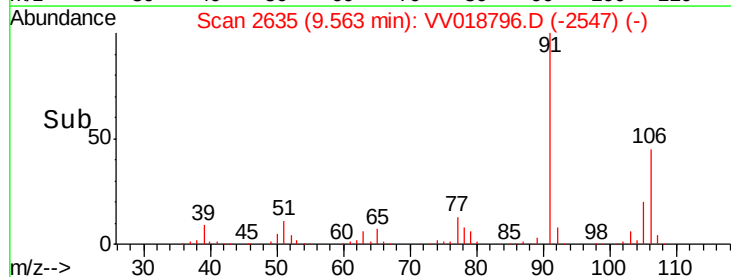
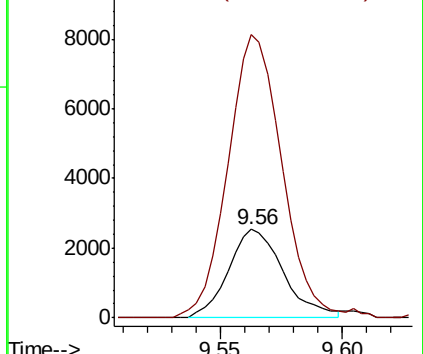
104 100

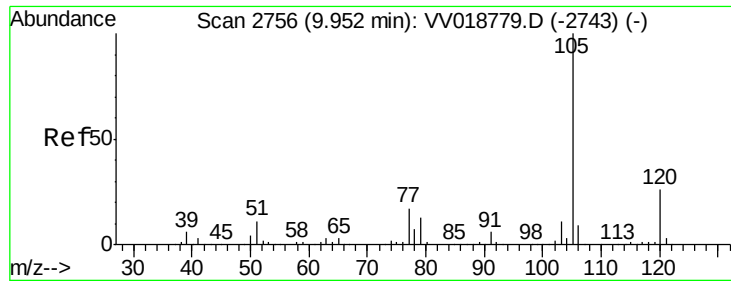
78 319.8 33.5 62.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 7.201 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampleId :

BG3Q4

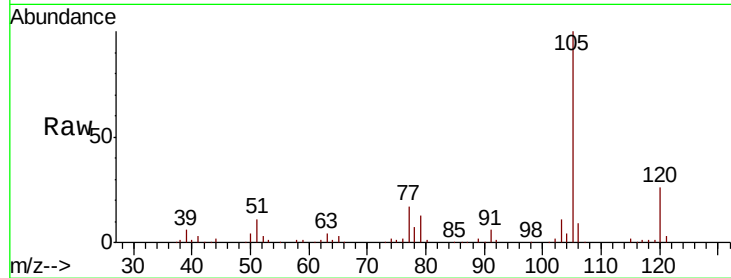
Tot Ion:105 Resp: 79137

Ion Ratio Lower Upper

105 100

120 26.2 20.4 30.6

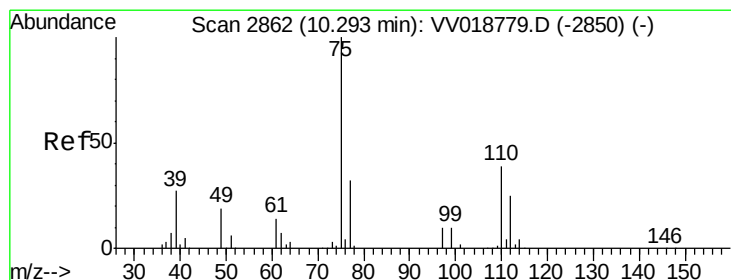
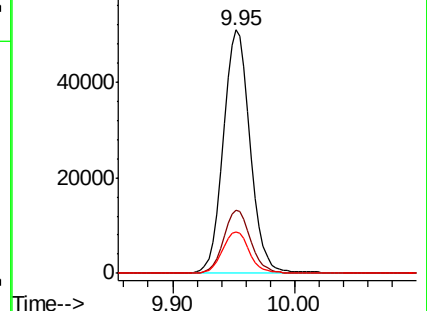
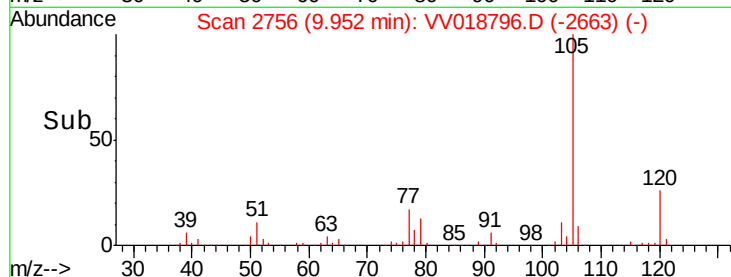
77 17.3 13.0 19.6



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): V



#59

1,2,3-Trichloropropane

Concen: 0.792 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.91 min

Lab File: VV018796.D

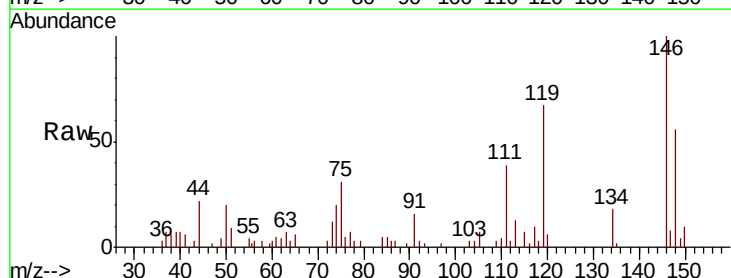
Acq: 09 Oct 2020 05:46

Tgt Ion: 75 Resp: 2527

Ion Ratio Lower Upper

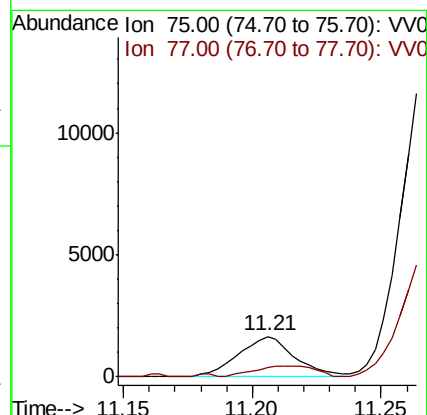
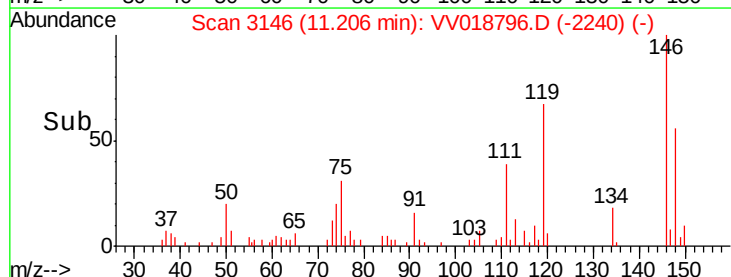
75 100

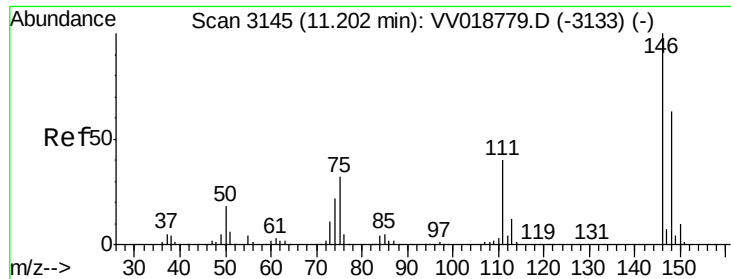
77 28.8 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#62

1,3-Dichlorobenzene

Concen: 1.521 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampled :

BG3Q4

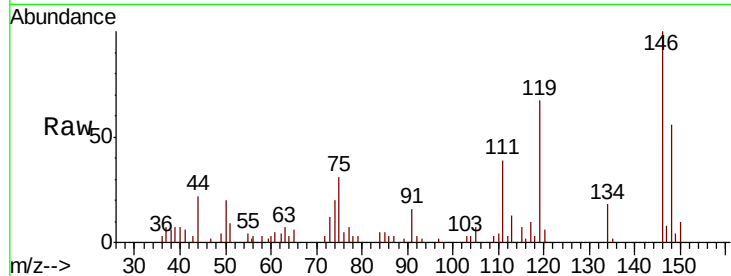
Tot Ion:146 Resp: 8283

Ion Ratio Lower Upper

146 100

111 38.6 27.8 51.6

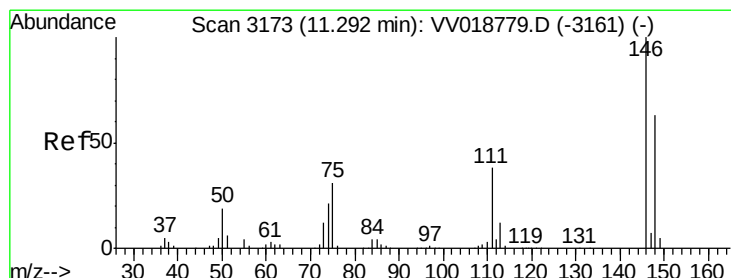
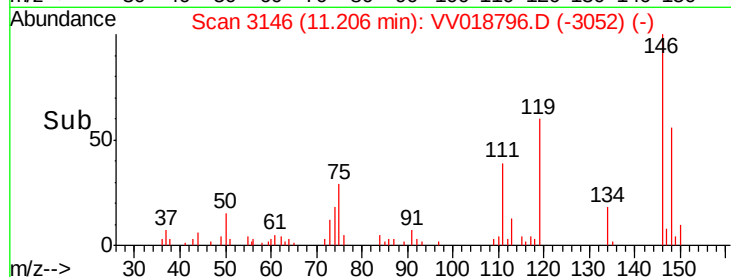
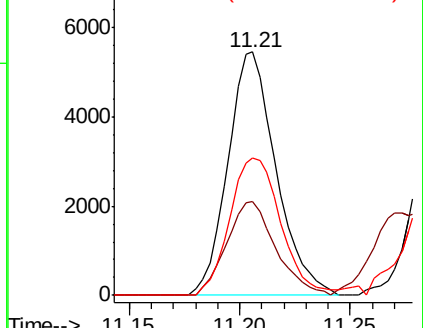
148 56.3 45.4 84.4



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



#63

1,4-Dichlorobenzene

Concen: 2.122 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

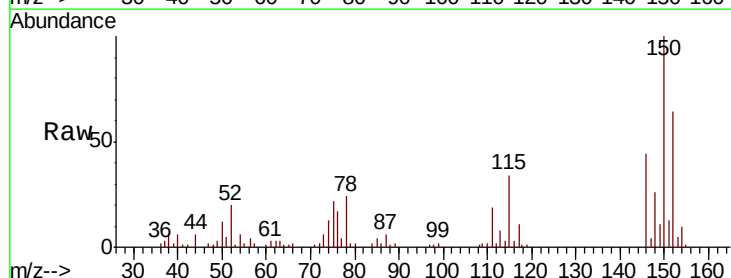
Tgt Ion:146 Resp: 12020

Ion Ratio Lower Upper

146 100

111 44.1 27.1 50.3

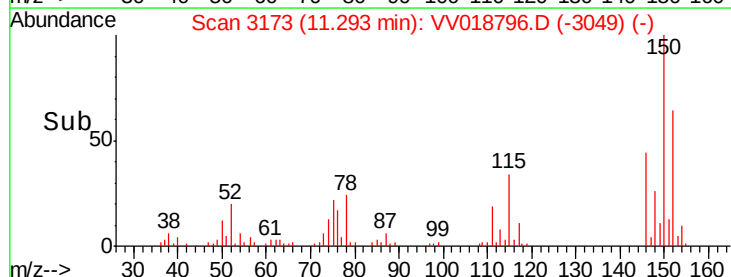
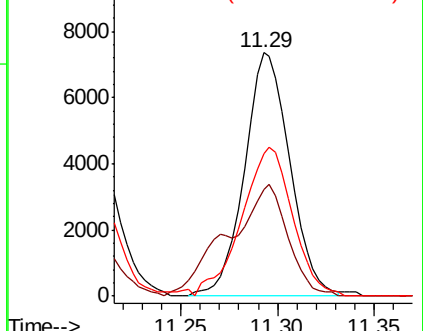
148 58.4 45.4 84.4

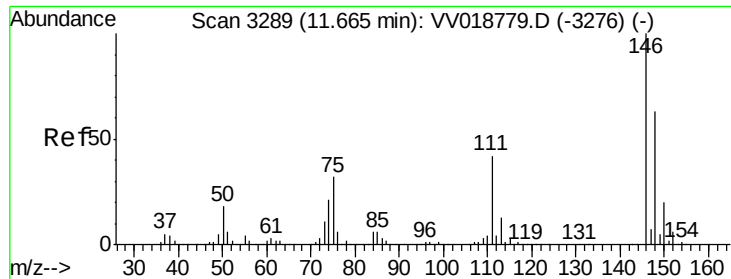


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 3.211 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Instrument :

MSVOA_V

ClientSampleId :

BG3Q4

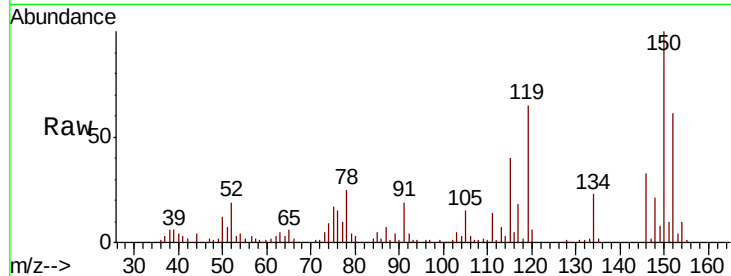
Tot Ion:146 Resp: 17559

Ion Ratio Lower Upper

146 100

111 42.1 33.8 50.6

148 62.7 50.3 75.5

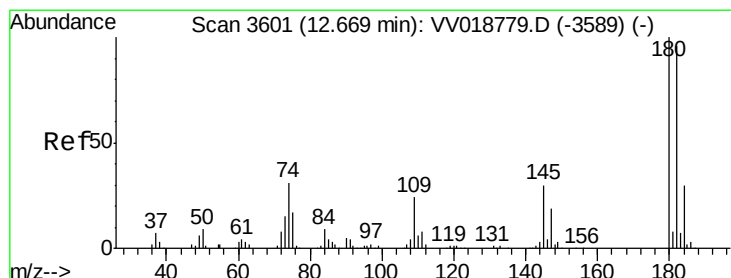
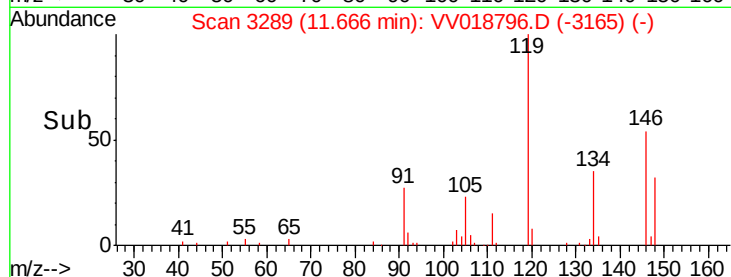
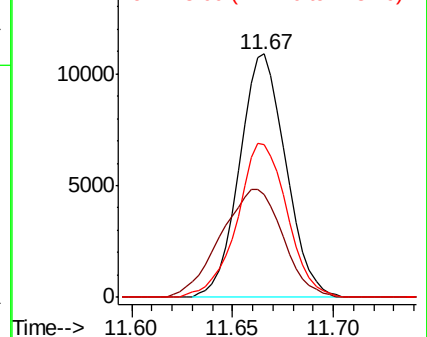


Abundance

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



#67

1,3,5-Trichlorobenzene

Concen: 20.436 ug/L

RT: 13.28 min Scan# 3792

Delta R.T. 0.61 min

Lab File: VV018796.D

Acq: 09 Oct 2020 05:46

Tgt Ion:180 Resp: 72093

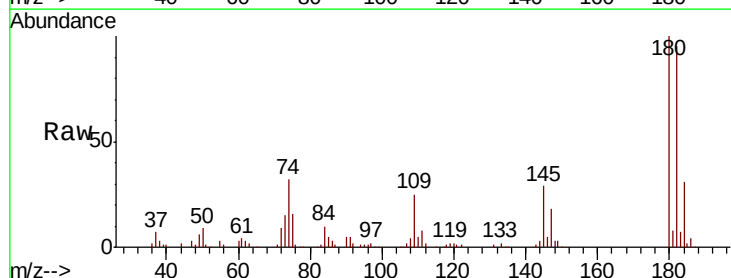
Ion Ratio Lower Upper

180 100

182 95.7 77.0 115.6

184 31.1 24.6 37.0

145 29.4 23.4 35.0



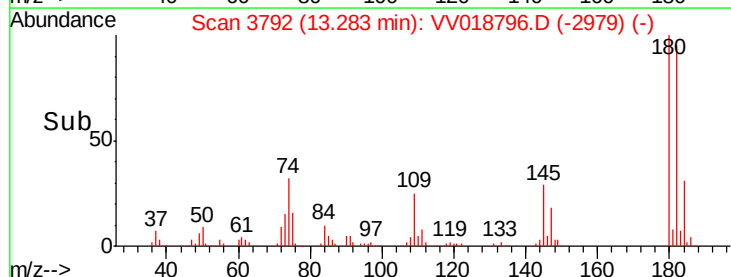
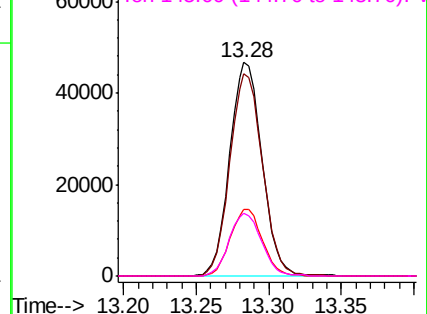
Abundance

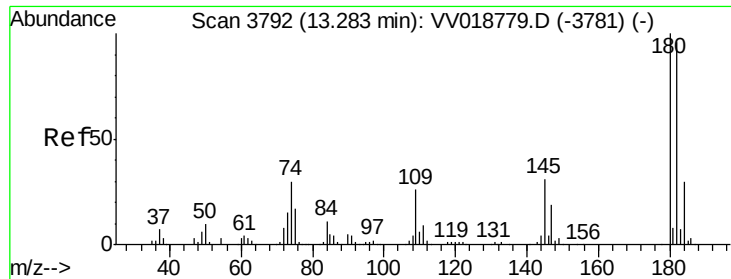
Ion 180.00 (179.70 to 180.70): V

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

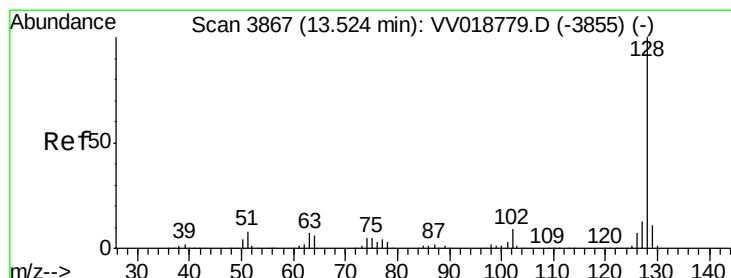
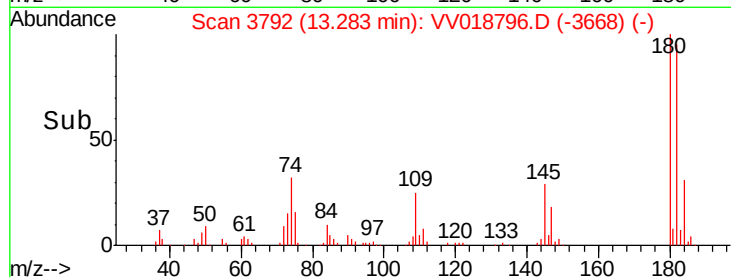
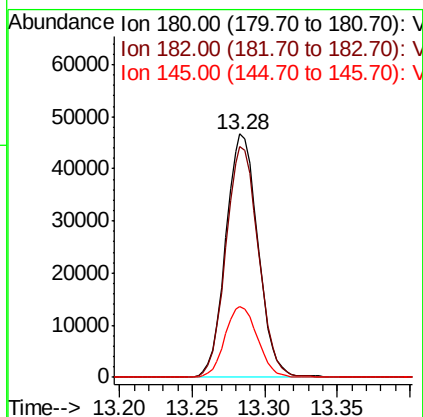
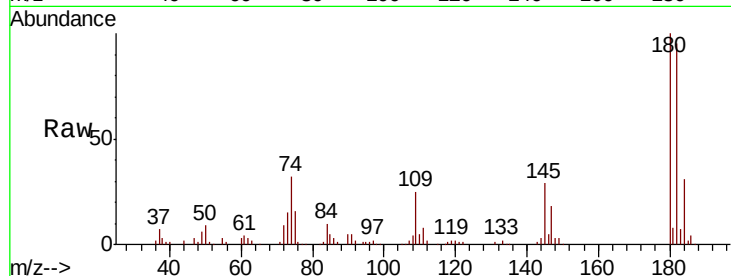




#68
 1,2,4-trichlorobenzene
 Concen: 21.733 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

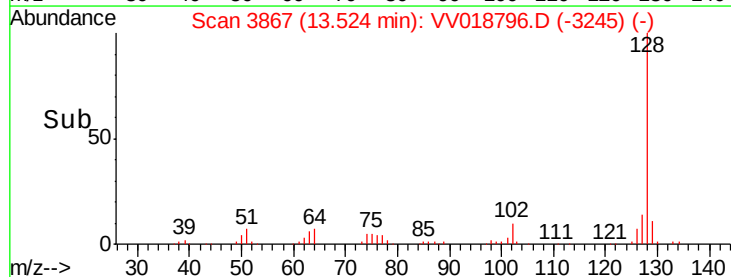
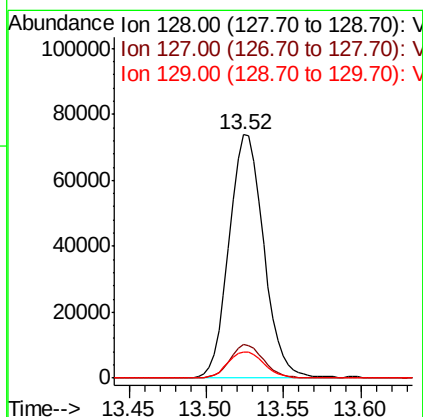
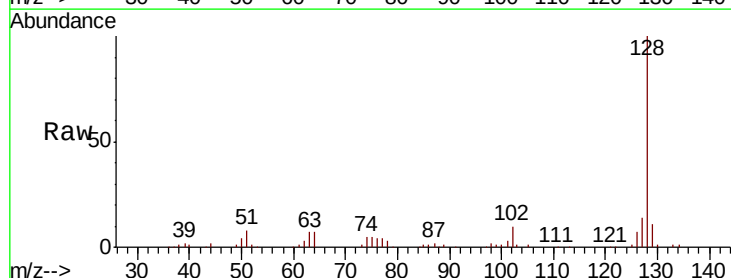
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Q4

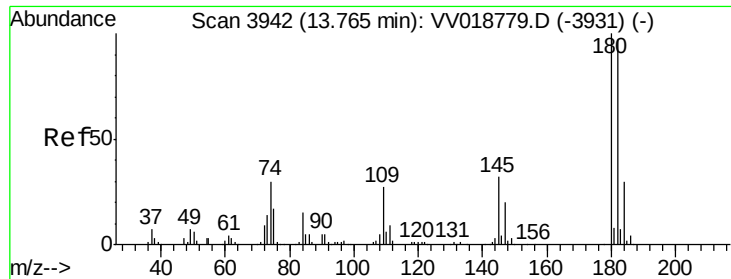
Tot Ion:180 Resp: 72093
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.7 115.1
 145 29.4 24.0 36.0



#69
 Naphthalene
 Concen: 12.314 ug/L
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.00 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

Tgt Ion:128 Resp: 115090
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.4 15.6
 129 11.0 8.6 13.0

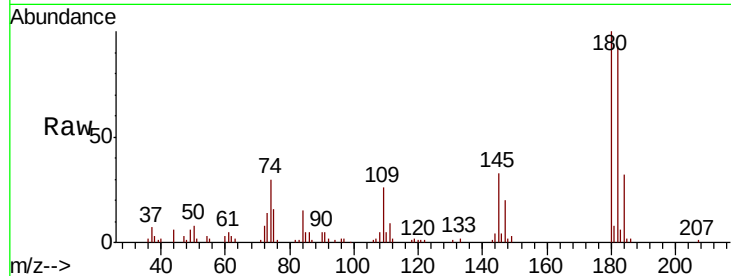




#70
 1,2,3-Trichlorobenzene
 Concen: 9.803 ug/L
 RT: 13.77 min Scan# 3942
 Delta R.T. 0.00 min
 Lab File: VV018796.D
 Acq: 09 Oct 2020 05:46

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3Q4

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.9	113.9
145	32.7	25.2	37.8



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

