

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018798.D
 Acq On : 09 Oct 2020 06:34
 Operator : SY/MD
 Sample : L4239-19 10X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3W1

Quant Time: Oct 09 07:36:38 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	335626	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	318291	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	160705	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	132101	43.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.64%
7) Chloroethane-d5	1.58	69	111334	45.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.72%
11) 1,1-Dichloroethene-d2	2.12	63	205787	35.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.00%
21) 2-Butanone-d5	3.90	46	183050	97.76	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.76%
24) Chloroform-d	4.37	84	247090	45.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.84%
26) 1,2-Dichloroethane-d4	5.05	65	180679	49.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.08%
32) Benzene-d6	5.07	84	521394	50.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.80%
36) 1,2-Dichloropropane-d6	6.09	67	158705	47.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.04%
41) Toluene-d8	7.34	98	421189	46.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.64%
43) trans-1,3-Dichloropropene-	7.64	79	73399	44.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.92%
47) 2-Hexanone-d5	8.11	63	113969	97.36	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.36%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	190789	49.66	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.32%
64) 1,2-Dichlorobenzene-d4	11.65	152	175640	49.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1739	0.721	ug/L #	19
12) 1,1-Dichloroethene	2.13	96	3618	1.558	ug/L #	1
13) Acetone	2.18	43	5019	3.216	ug/L	80
19) 1,1-Dichloroethane	3.21	63	23976	4.983	ug/L	95
20) cis-1,2-Dichloroethene	3.94	96	162899	62.864	ug/L	98
29) Cyclohexane	4.71	56	28004	7.265	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	322981	76.136	ug/L	99
31) Carbon tetrachloride	4.63	117	40668	11.374	ug/L	98
34) Trichloroethene	5.95	95	6087	2.094	ug/L	98
42) Toluene	7.41	91	3012486	290.443	ug/L	97
46) Tetrachloroethene	8.00	164	1515	0.711	ug/L #	73
51) Chlorobenzene	8.90	112	6711	0.975	ug/L	96
52) Ethylbenzene	9.03	91	113895	9.670	ug/L	99
53) m,p-Xylene	9.16	106	136541	31.581	ug/L	100
54) o-xylene	9.56	106	79642	19.395	ug/L	99
55) Styrene	9.57	104	4336	0.597	ug/L #	1
56) Isopropylbenzene	9.96	105	30920	2.721	ug/L	100

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

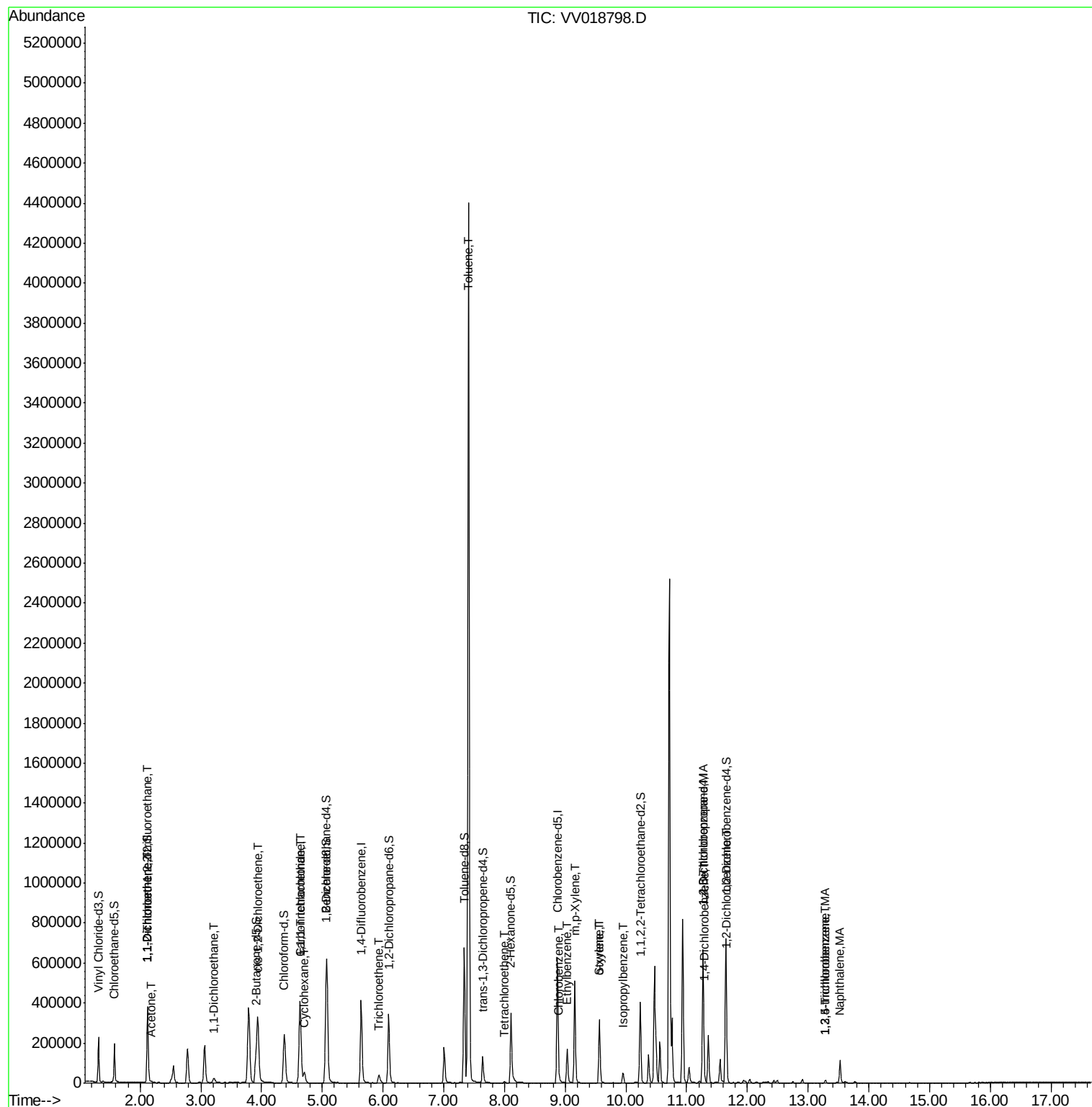
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.27	75	23003	6.969	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	8942	1.641	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	5356	1.018	ug/L #	80
67) 1,3,5-Trichlorobenzene	13.29	180	4509	1.329	ug/L	92
68) 1,2,4-trichlorobenzene	13.29	180	4509	1.413	ug/L	93
69) Naphthalene	13.53	128	82537	9.180	ug/L	99

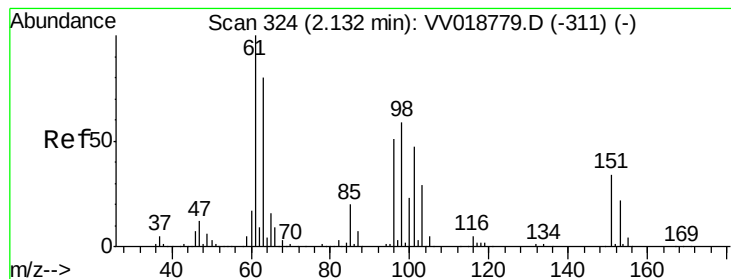
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.721 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

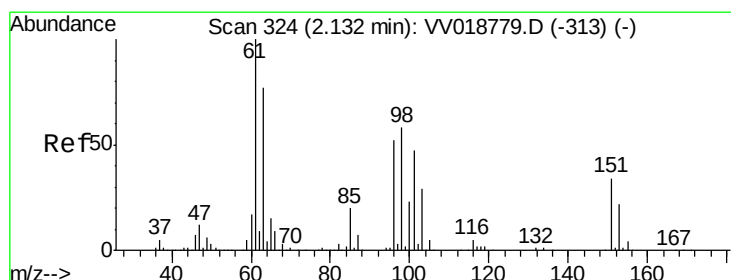
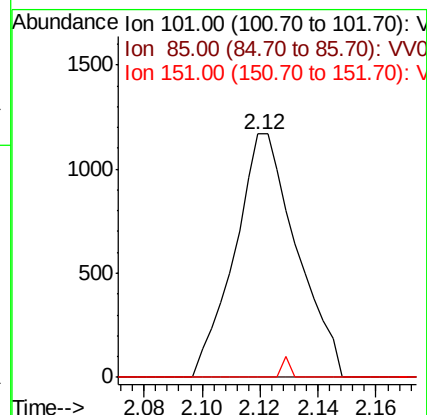
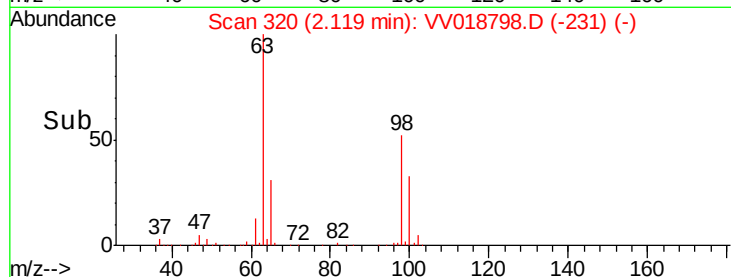
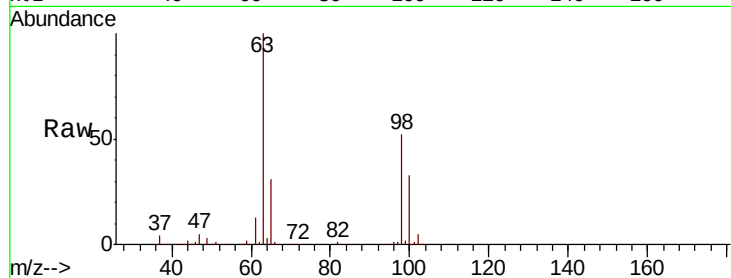
Tot Ion:101 Resp: 1739

Ion Ratio Lower Upper

101 100

85 0.0 35.9 53.9#

151 0.0 59.8 89.8#



#12

1,1-Dichloroethene

Concen: 1.558 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

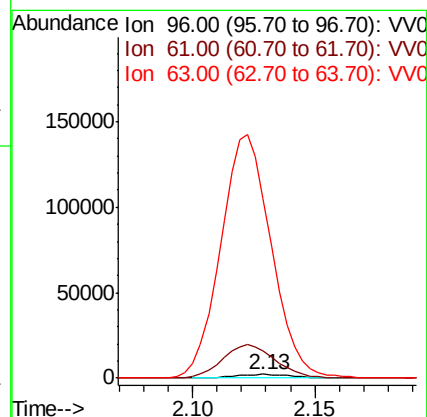
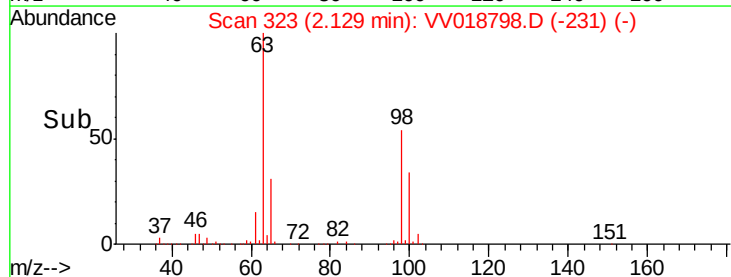
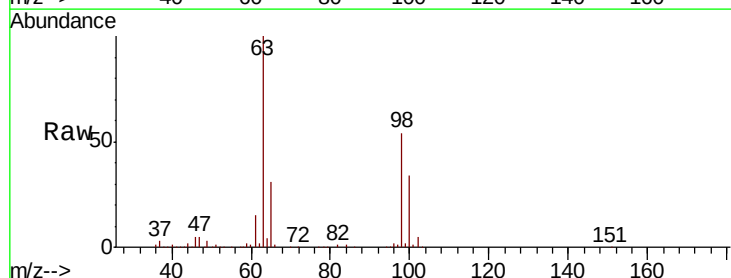
Tgt Ion: 96 Resp: 3618

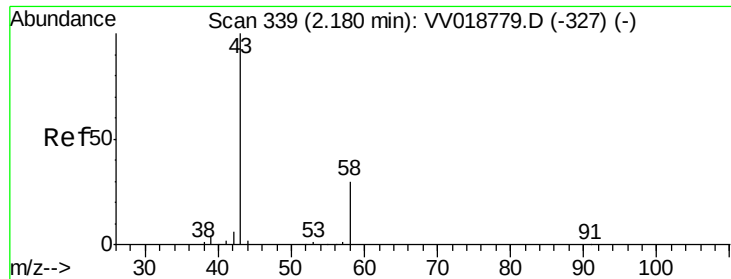
Ion Ratio Lower Upper

96 100

61 736.6 133.6 248.0#

63 4936.5 108.4 201.4#





#13

Acetone

Concen: 3.216 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

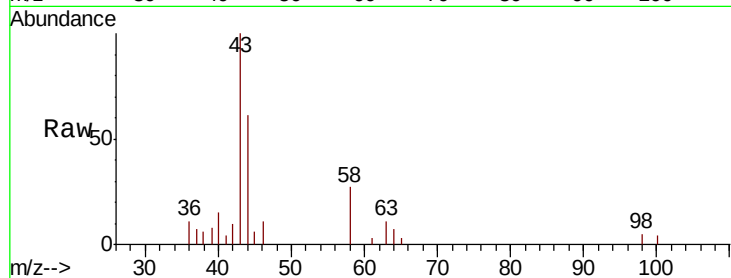
BG3W1

Tot Ion: 43 Resp: 5019

Ion Ratio Lower Upper

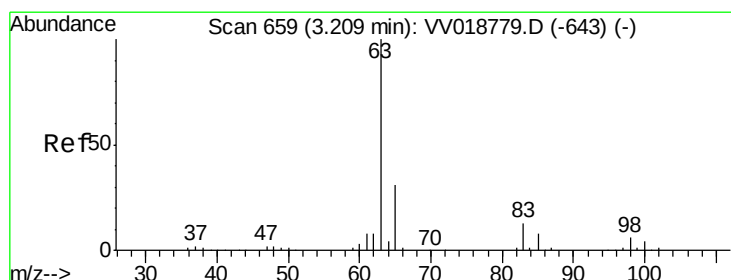
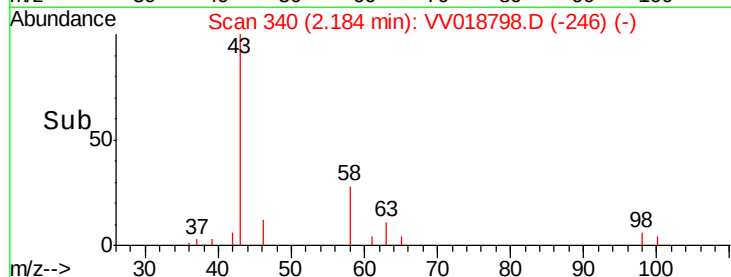
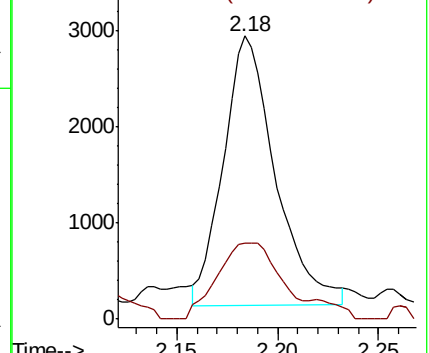
43 100

58 19.4 0.0 61.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#19

1,1-Dichloroethane

Concen: 4.983 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

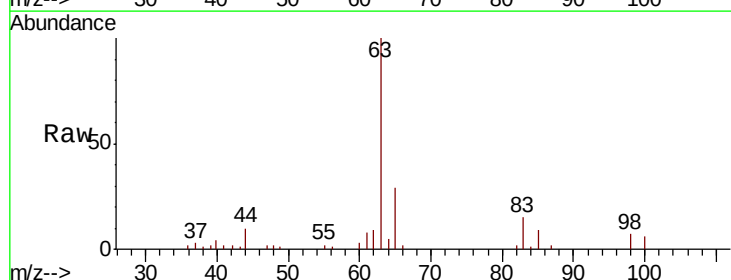
Tgt Ion: 63 Resp: 23976

Ion Ratio Lower Upper

63 100

65 28.5 22.0 40.8

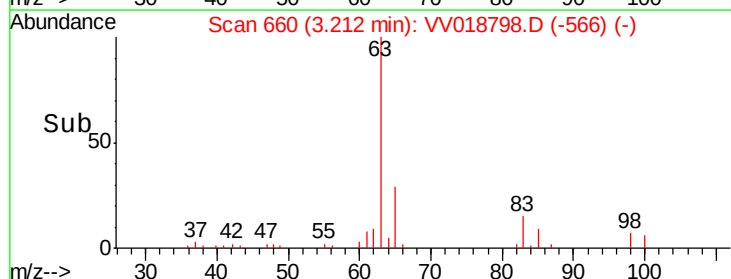
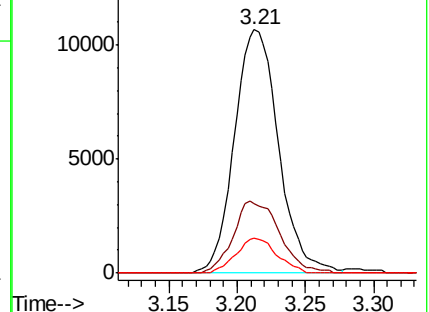
83 14.5 9.2 17.0

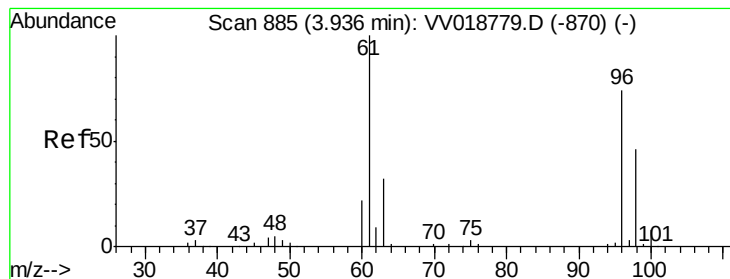


Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0





#20

cis-1,2-Dichloroethene

Concen: 62.864 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

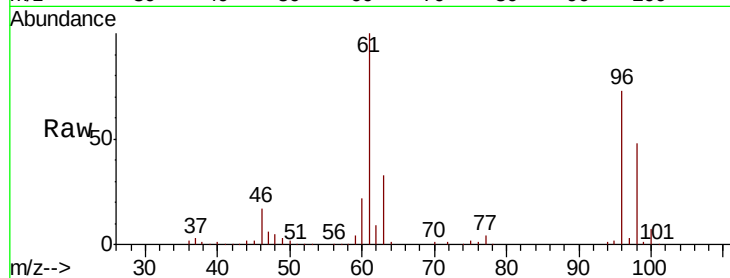
Tot Ion: 96 Resp: 162899

Ion Ratio Lower Upper

96 100

61 136.4 97.3 180.7

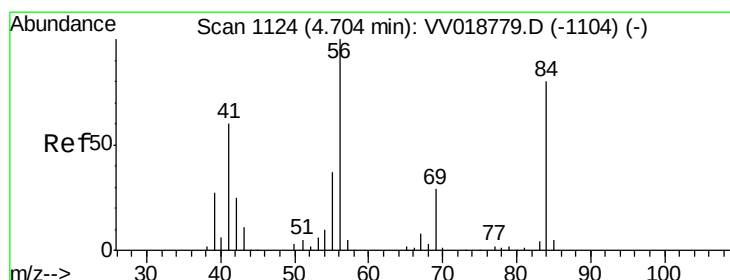
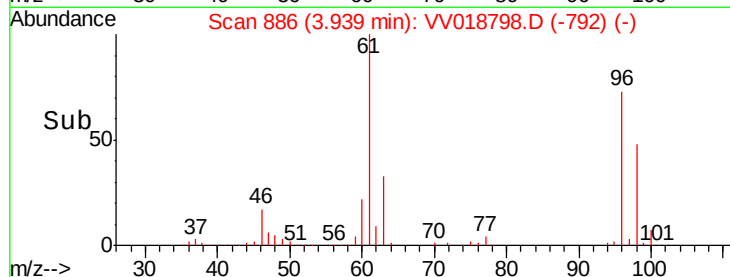
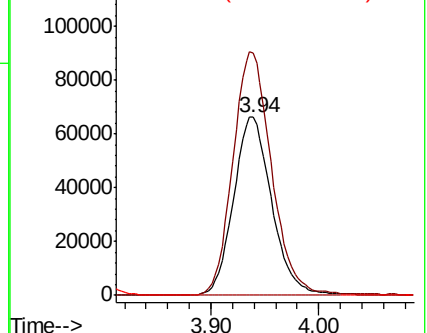
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0



#29

Cyclohexane

Concen: 7.265 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

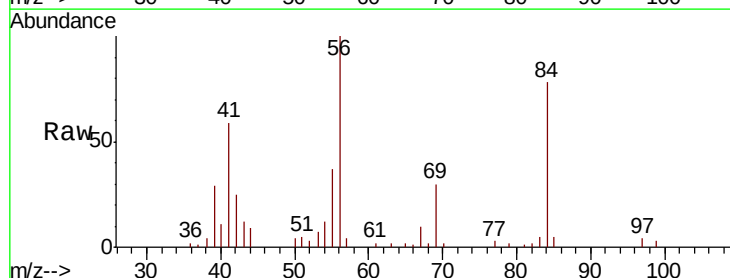
Tgt Ion: 56 Resp: 28004

Ion Ratio Lower Upper

56 100

69 29.5 23.1 34.7

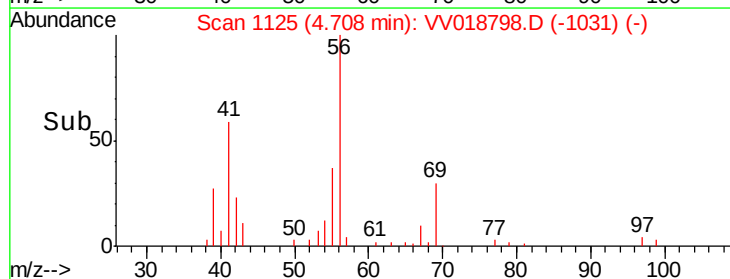
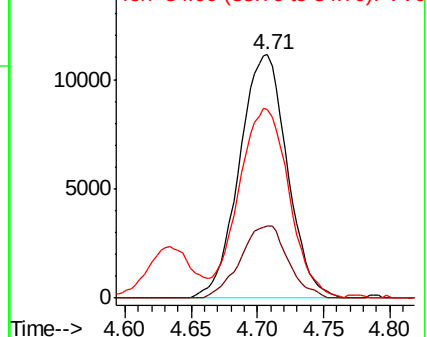
84 82.0 65.2 97.8

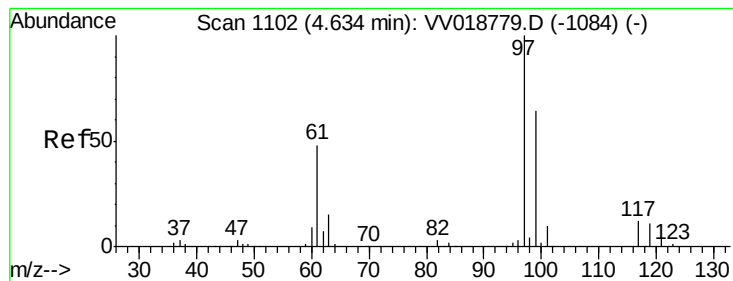


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0





#30

1,1,1-Trichloroethane

Concen: 76.136 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

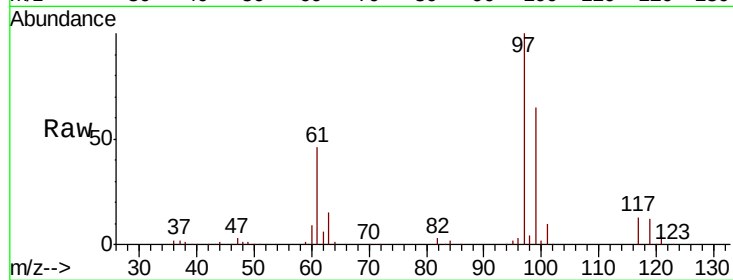
Tot Ion: 97 Resp: 322981

Ion Ratio Lower Upper

97 100

99 64.6 51.0 76.4

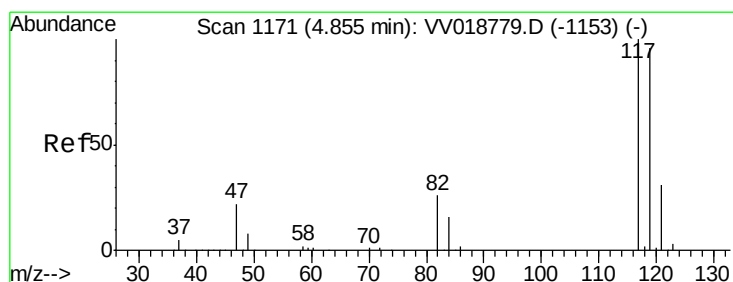
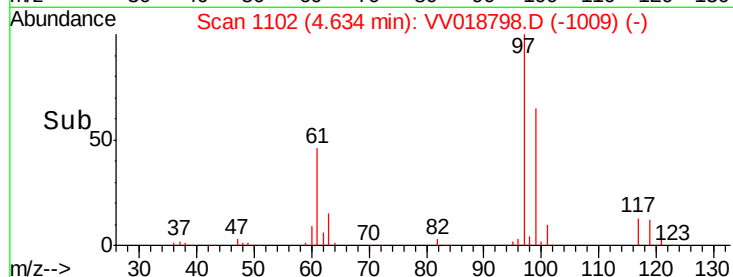
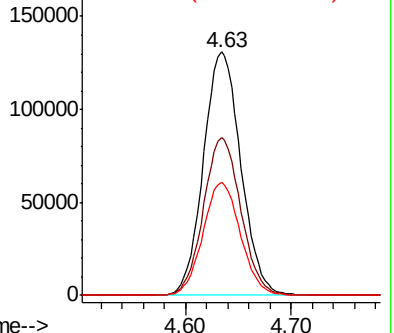
61 46.6 37.0 55.4



Abundance Ion 97.00 (96.70 to 97.70): VV018798.D (-1084) (-)

Ion 99.00 (98.70 to 99.70): VV018798.D (-1084) (-)

Ion 61.05 (60.75 to 61.75): VV018798.D (-1084) (-)



#31

Carbon tetrachloride

Concen: 11.374 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.22 min

Lab File: VV018798.D

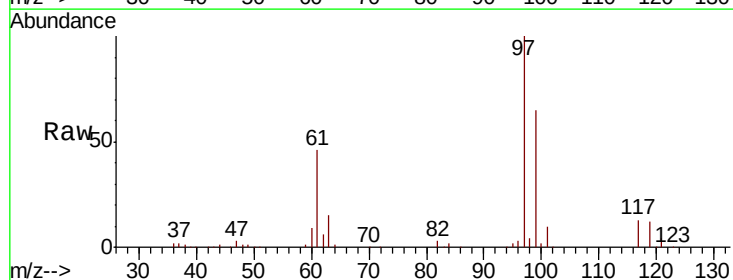
Acq: 09 Oct 2020 06:34

Tgt Ion: 117 Resp: 40668

Ion Ratio Lower Upper

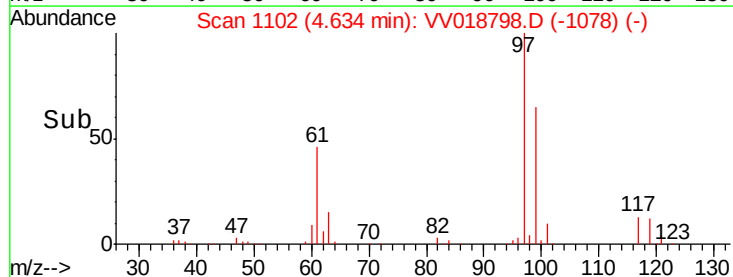
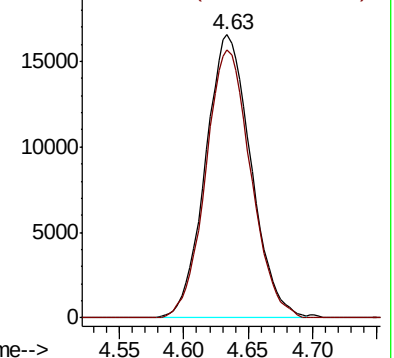
117 100

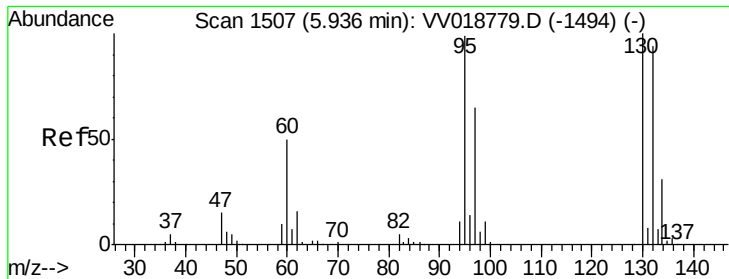
119 93.9 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): VV018798.D (-1078) (-)

Ion 119.00 (118.70 to 119.70): VV018798.D (-1078) (-)





#34

Trichloroethene

Concen: 2.094 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

Tot Ion: 95 Resp: 6087

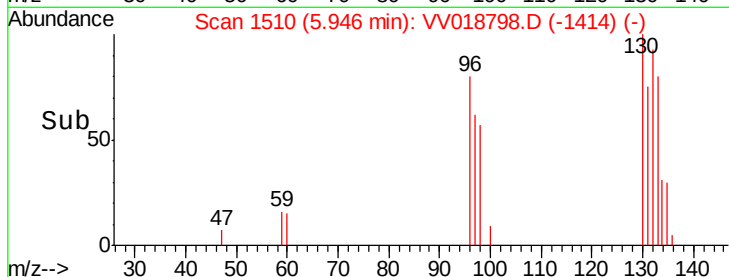
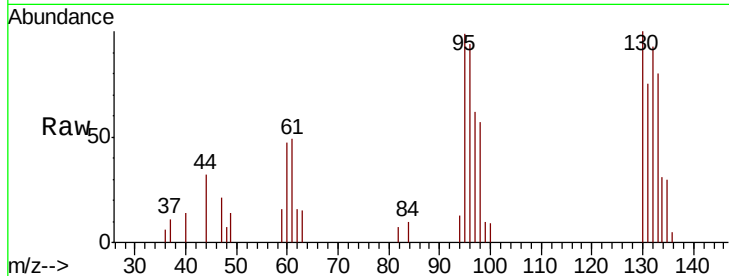
Ion Ratio Lower Upper

95 100

97 62.5 45.1 83.9

132 94.1 66.2 123.0

130 101.4 69.1 128.3

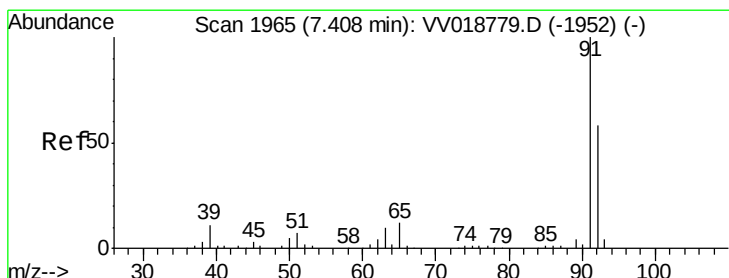
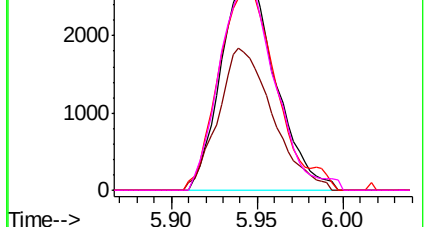


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#42

Toluene

Concen: 290.443 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018798.D

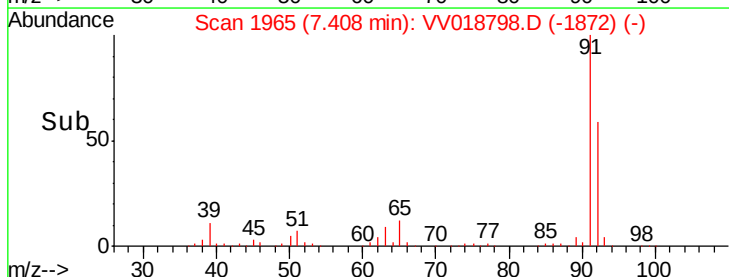
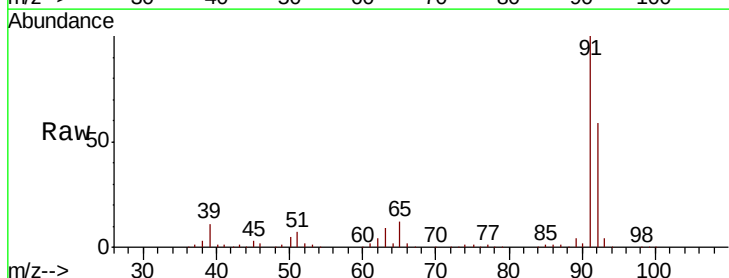
Acq: 09 Oct 2020 06:34

Tgt Ion: 91 Resp: 3012486

Ion Ratio Lower Upper

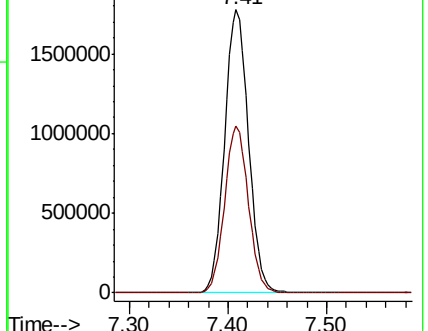
91 100

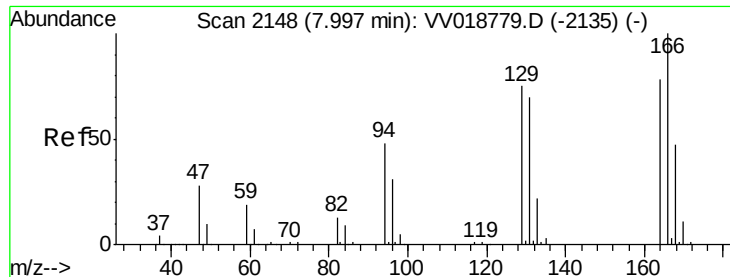
92 58.8 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0





#46

Tetrachloroethene

Concen: 0.711 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

Tot Ion:164 Resp: 1515

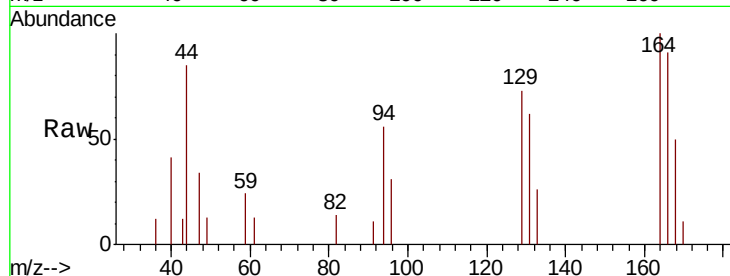
Ion Ratio Lower Upper

164 100

129 73.4 64.6 120.0

131 61.9 63.6 118.0#

166 91.0 88.3 164.1



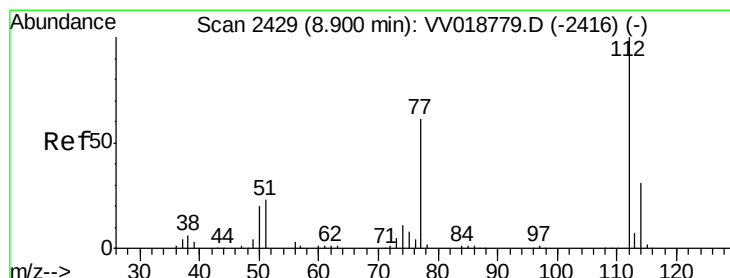
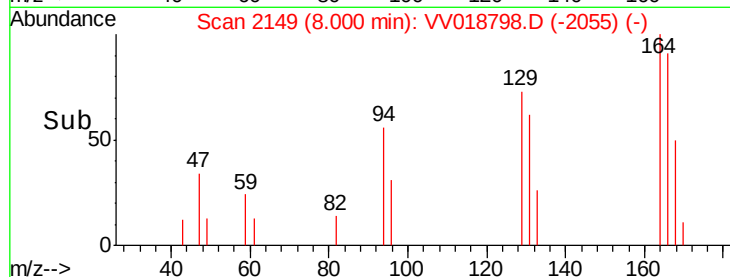
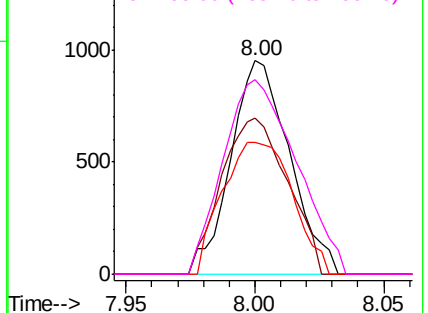
Abundance

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



#51

Chlorobenzene

Concen: 0.975 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

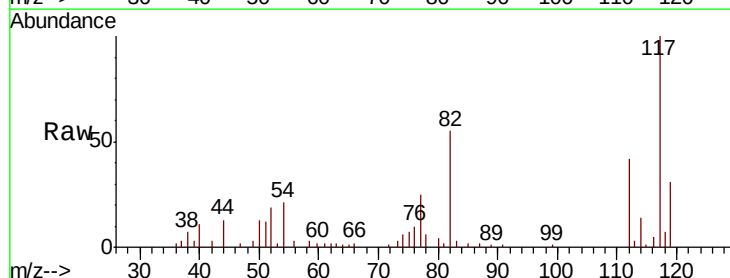
Tgt Ion:112 Resp: 6711

Ion Ratio Lower Upper

112 100

114 34.7 22.0 41.0

77 59.9 49.8 74.6

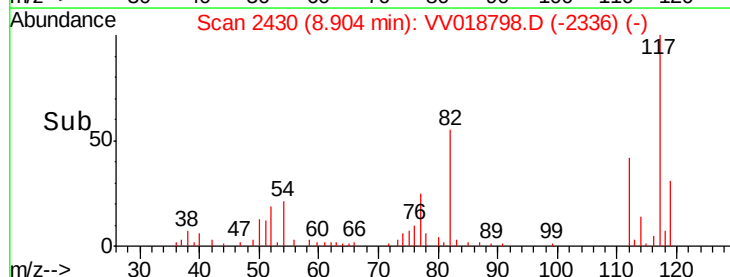
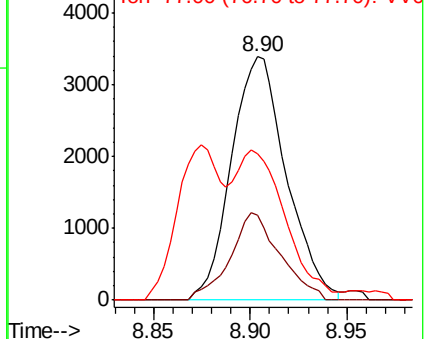


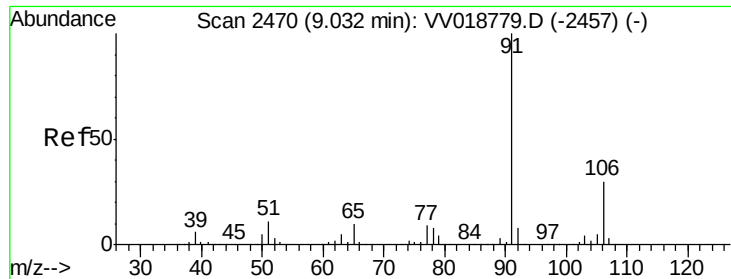
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 9.670 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

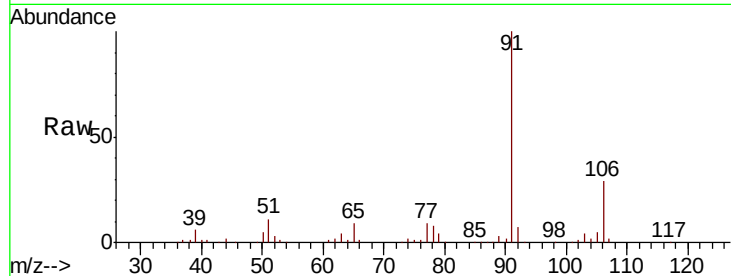
BG3W1

Tot Ion: 91 Resp: 113895

Ion Ratio Lower Upper

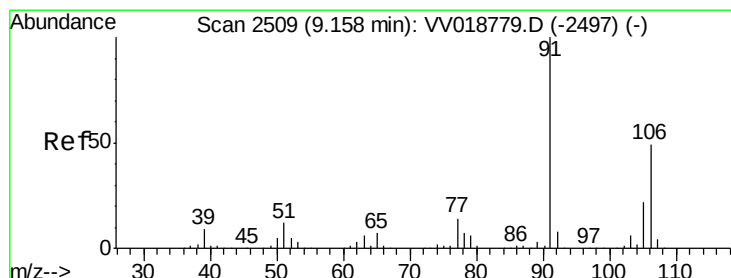
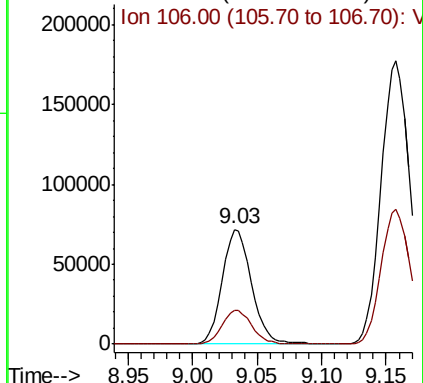
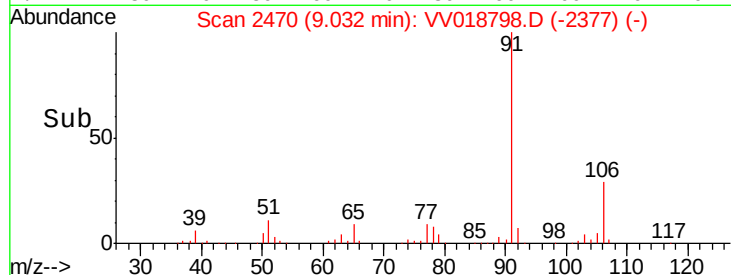
91 100

106 29.4 20.9 38.9



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

Ion 106.00 (105.70 to 106.70): VV018798.D (-2377) (-)



#53

m,p-Xylene

Concen: 31.581 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018798.D

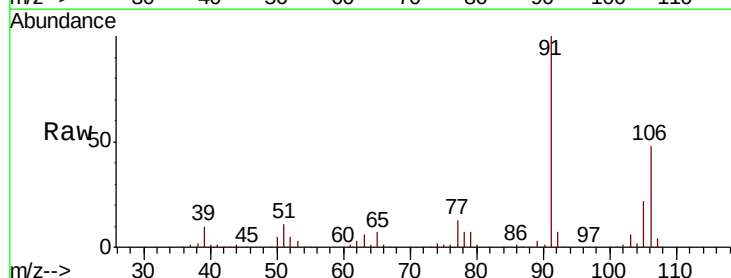
Acq: 09 Oct 2020 06:34

Tgt Ion: 106 Resp: 136541

Ion Ratio Lower Upper

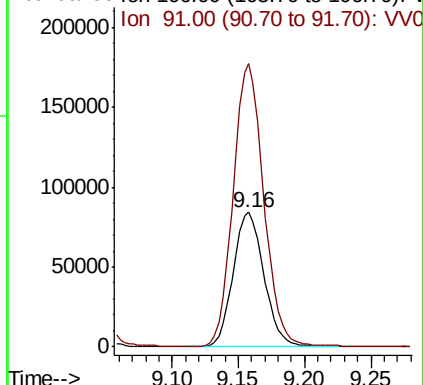
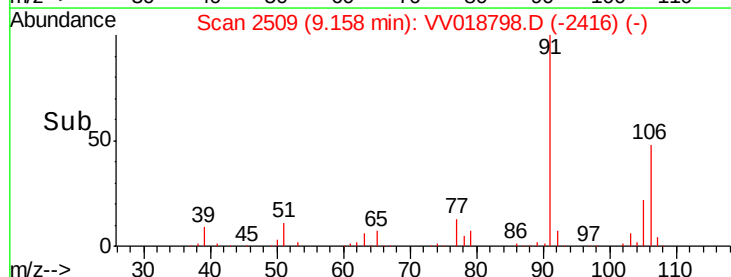
106 100

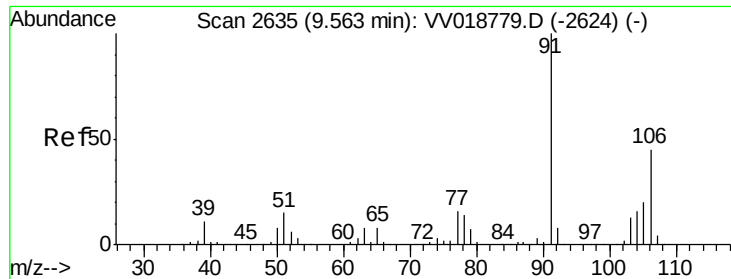
91 210.4 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): VV018798.D (-2416) (-)

Ion 91.00 (90.70 to 91.70): VV018779.D (-2497) (-)





#54

o-xylene

Concen: 19.395 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

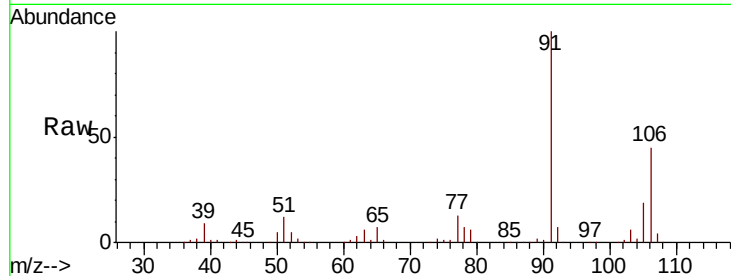
BG3W1

Tot Ion:106 Resp: 79642

Ion Ratio Lower Upper

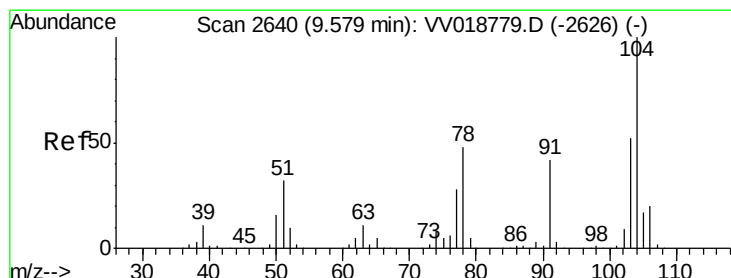
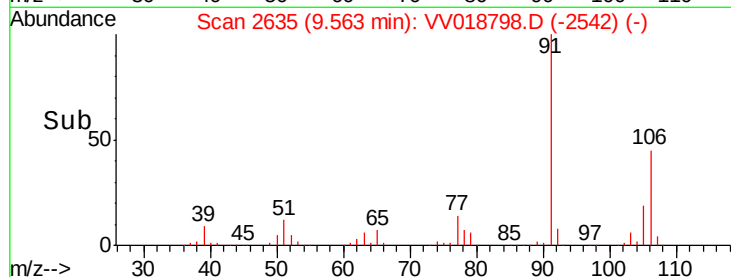
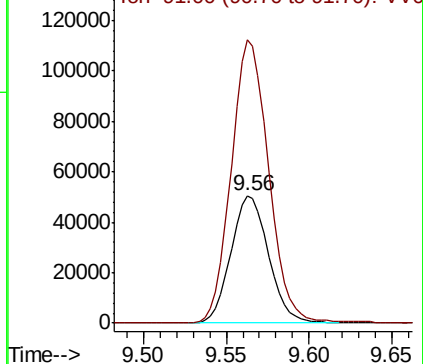
106 100

91 221.8 156.8 291.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 0.597 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.01 min

Lab File: VV018798.D

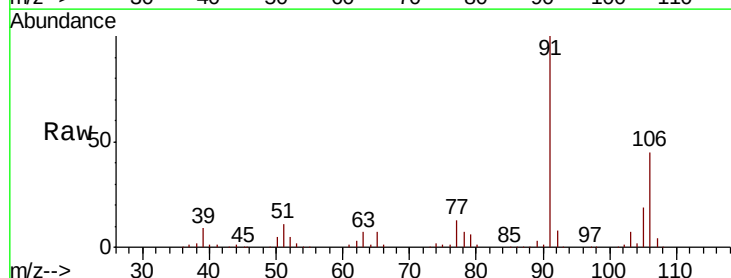
Acq: 09 Oct 2020 06:34

Tgt Ion:104 Resp: 4336

Ion Ratio Lower Upper

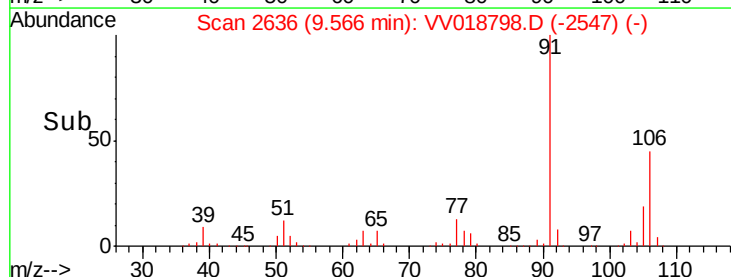
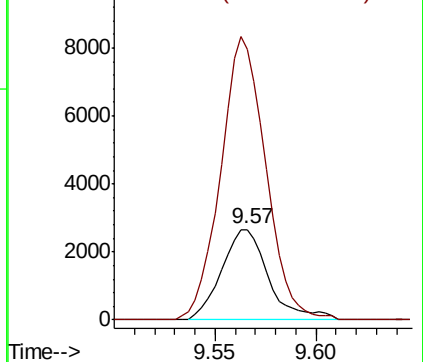
104 100

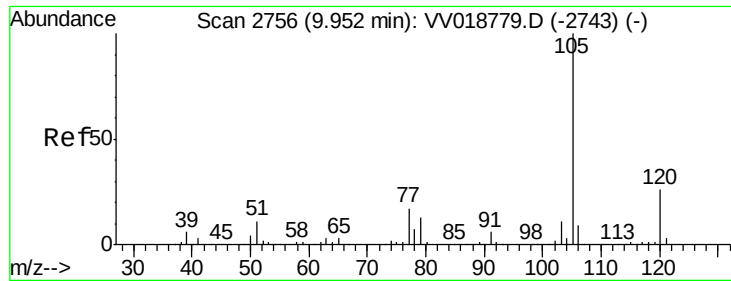
78 300.2 33.5 62.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 2.721 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

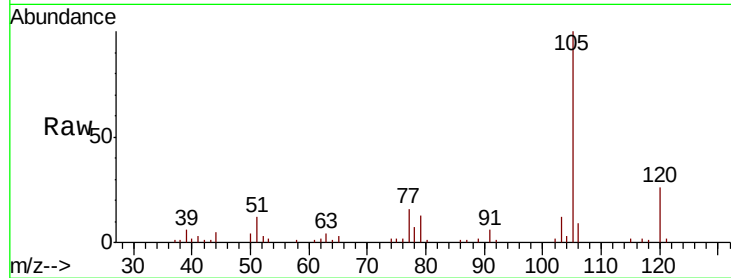
Tot Ion:105 Resp: 30920

Ion Ratio Lower Upper

105 100

120 25.4 20.4 30.6

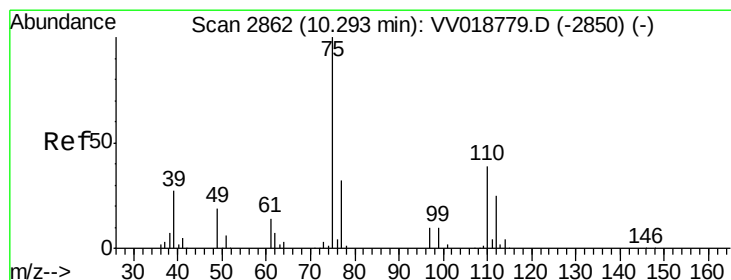
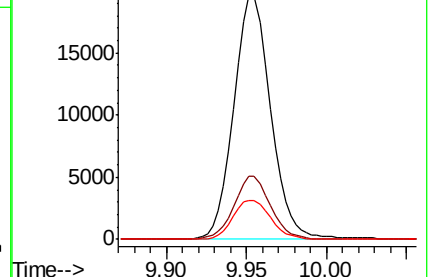
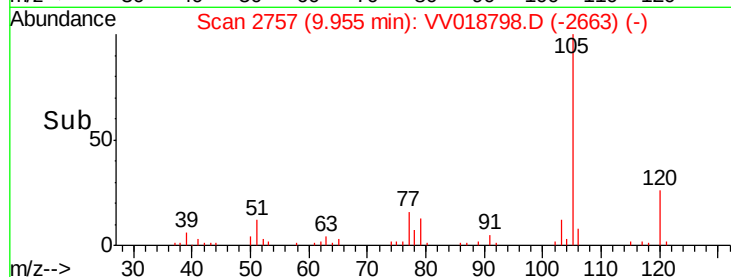
77 16.2 13.0 19.6



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: 6.969 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV018798.D

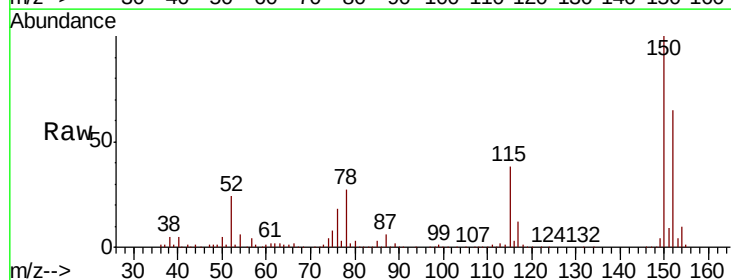
Acq: 09 Oct 2020 06:34

Tgt Ion: 75 Resp: 23003

Ion Ratio Lower Upper

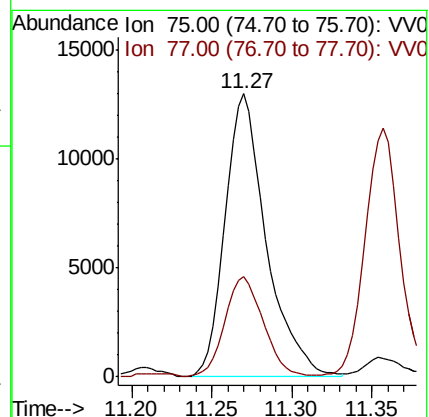
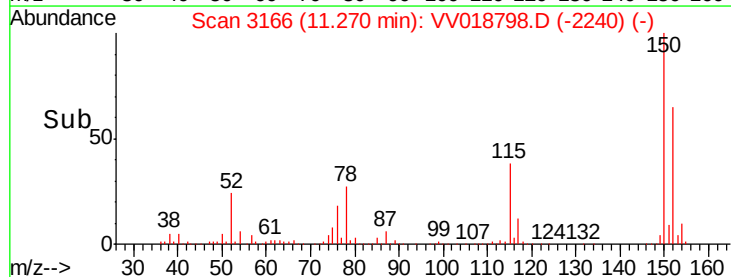
75 100

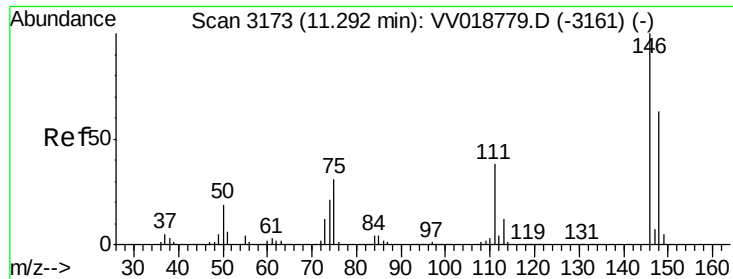
77 33.2 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

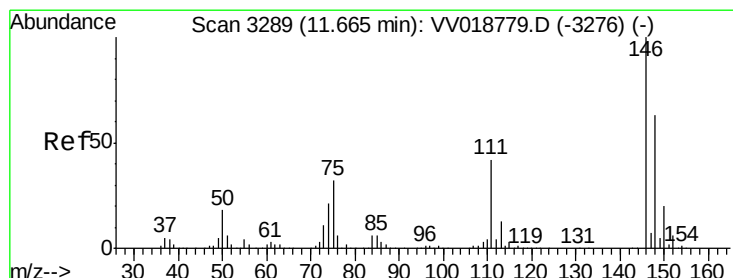
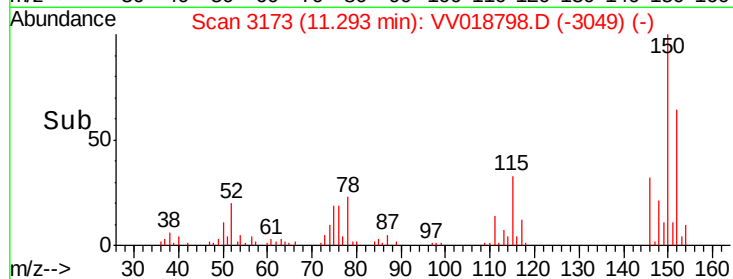
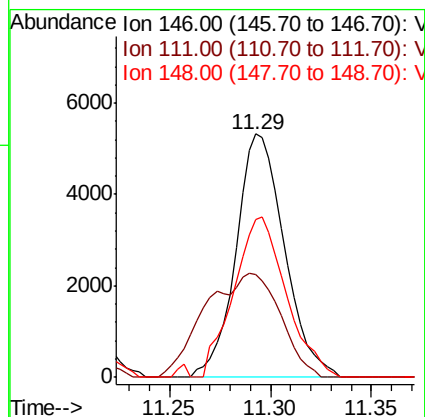
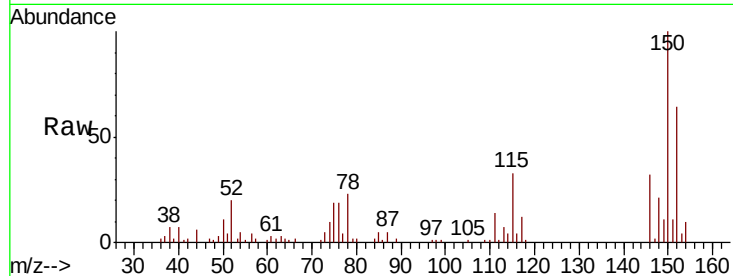




#63
 1,4-Dichlorobenzene
 Concen: 1.641 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV018798.D
 Acq: 09 Oct 2020 06:34

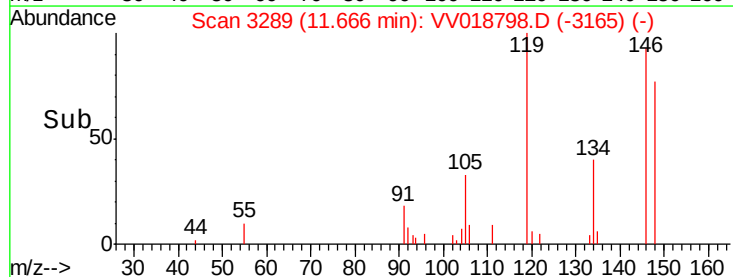
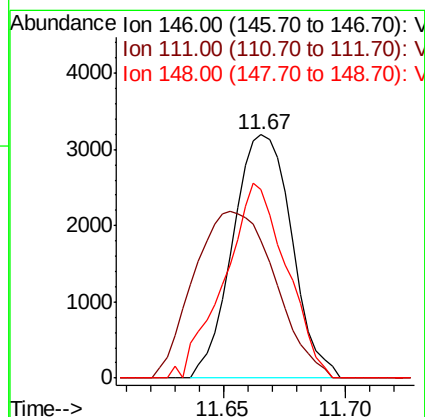
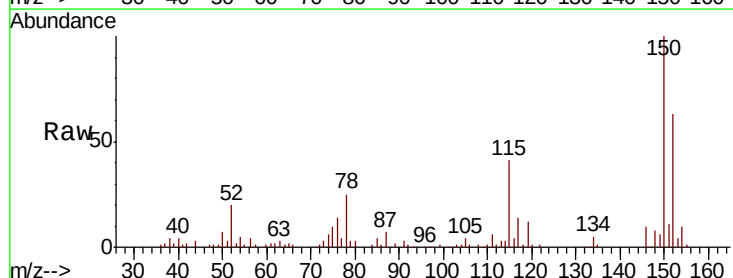
Instrument :
 MSVOA_V
 ClientSampleId :
 BG3W1

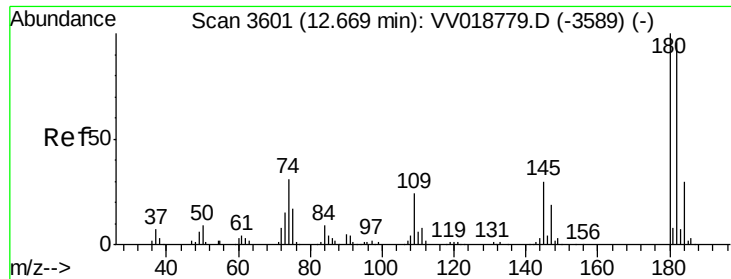
Tot Ion:146 Resp: 8942
 Ion Ratio Lower Upper
 146 100
 111 42.1 27.1 50.3
 148 64.9 45.4 84.4



#65
 1,2-Dichlorobenzene
 Concen: 1.018 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV018798.D
 Acq: 09 Oct 2020 06:34

Tgt Ion:146 Resp: 5356
 Ion Ratio Lower Upper
 146 100
 111 56.4 33.8 50.6#
 148 77.3 50.3 75.5#

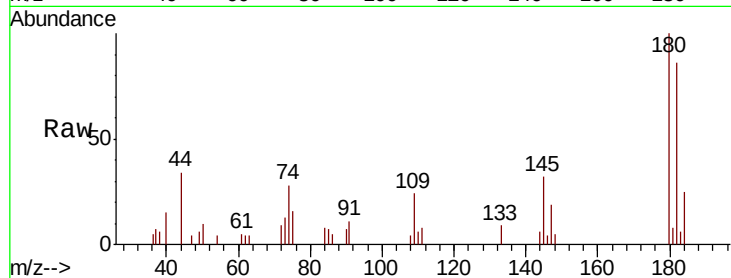




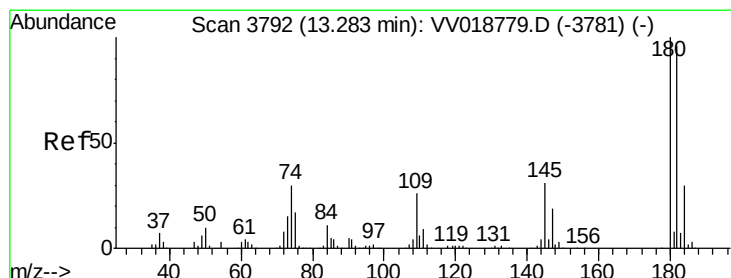
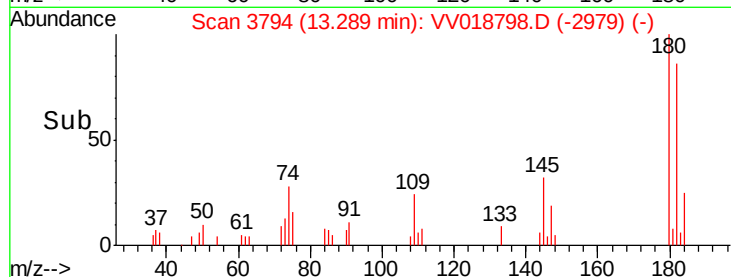
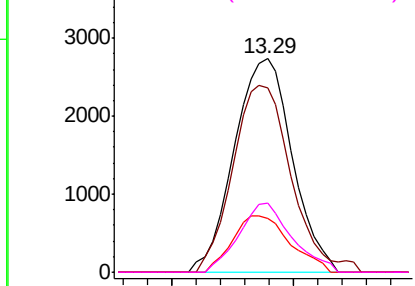
#67
 1,3,5-Trichlorobenzene
 Concen: 1.329 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.62 min
 Lab File: VV018798.D
 Acq: 09 Oct 2020 06:34

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3W1

Tot Ion:180 Resp: 4509
 Ion Ratio Lower Upper
 180 100
 182 87.1 77.0 115.6
 184 26.1 24.6 37.0
 145 29.5 23.4 35.0

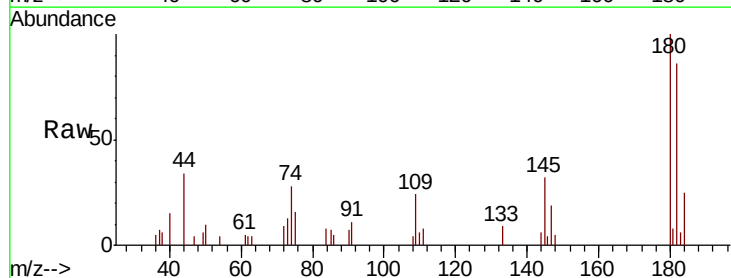


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

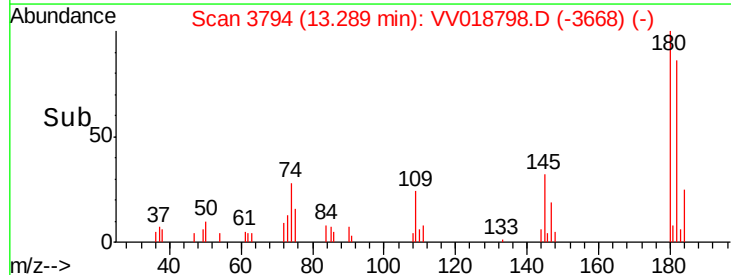
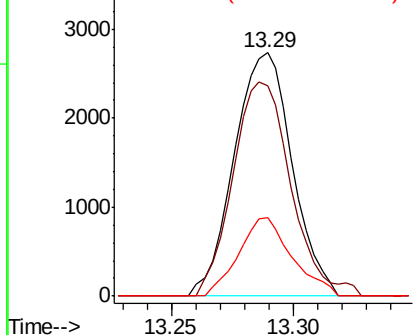


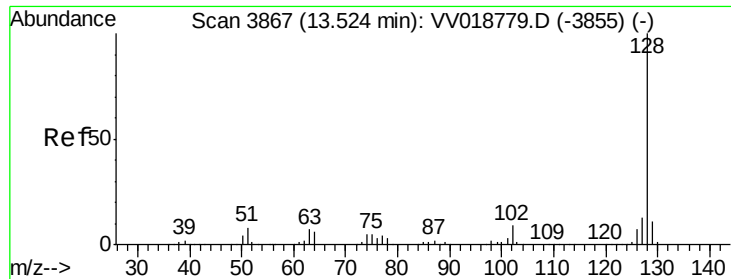
#68
 1,2,4-trichlorobenzene
 Concen: 1.413 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV018798.D
 Acq: 09 Oct 2020 06:34

Tgt Ion:180 Resp: 4509
 Ion Ratio Lower Upper
 180 100
 182 87.1 76.7 115.1
 145 29.5 24.0 36.0



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: 9.180 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV018798.D

Acq: 09 Oct 2020 06:34

Instrument :

MSVOA_V

ClientSampleId :

BG3W1

Tot Ion:128 Resp: 82537

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

129 10.9 8.6 13.0

