

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018792.D
 Acq On : 09 Oct 2020 04:11
 Operator : SY/MD
 Sample : L4239-07 40X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3N8

Quant Time: Oct 09 07:34:59 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	304005	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	298134	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	155073	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	130456	47.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.46%
7) Chloroethane-d5	1.58	69	110003	49.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.94%
11) 1,1-Dichloroethene-d2	2.12	63	200392	37.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.26%
21) 2-Butanone-d5	3.90	46	190436	112.28	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.28%
24) Chloroform-d	4.37	84	236256	48.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.96%
26) 1,2-Dichloroethane-d4	5.06	65	164542	49.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.62%
32) Benzene-d6	5.07	84	461932	48.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.28%
36) 1,2-Dichloropropane-d6	6.09	67	146947	46.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.94%
41) Toluene-d8	7.34	98	425197	49.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.84%
43) trans-1,3-Dichloropropene-	7.64	79	73127	47.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.64%
47) 2-Hexanone-d5	8.11	63	107330	97.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.88%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	163696	45.48	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.96%
64) 1,2-Dichlorobenzene-d4	11.65	152	167886	48.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.84%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	3110	1.159 ug/L #	16
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1614	0.739 ug/L #	22
12) 1,1-Dichloroethene	2.13	96	4482	2.130 ug/L #	1
19) 1,1-Dichloroethane	3.21	63	29306	6.724 ug/L	94
20) cis-1,2-Dichloroethene	3.94	96	167654	71.429 ug/L	98
29) Cyclohexane	4.70	56	12750	3.531 ug/L	97
30) 1,1,1-Trichloroethane	4.63	97	306818	77.216 ug/L	99
31) Carbon tetrachloride	4.63	117	37681	11.251 ug/L	97
39) cis-1,3-Dichloropropene	7.01	75	4628	1.261 ug/L #	69
42) Toluene	7.41	91	2811244	289.366 ug/L	97
46) Tetrachloroethene	8.00	164	1514	0.759 ug/L	92
48) 2-Hexanone	8.11	43	15052	5.647 ug/L #	72
49) Dibromochloromethane	8.00	129	1450	0.569 ug/L #	10
51) Chlorobenzene	8.90	112	5417	0.840 ug/L	93
52) Ethylbenzene	9.03	91	129130	11.705 ug/L	100
53) m,p-Xylene	9.16	106	179213	44.254 ug/L	99
54) o-xylene	9.56	106	101261	26.327 ug/L	99

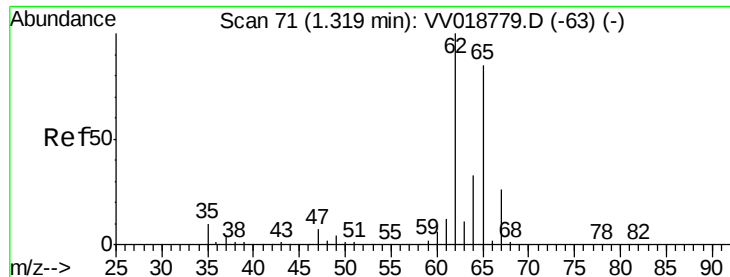
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
Data File : VV018792.D
Acq On : 09 Oct 2020 04:11
Operator : SY/MD
Sample : L4239-07 40X
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Quant Title : VOC Analysis
QLast Update : Fri Oct 09 07:31:27 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.56	104	5845	0.859	ug/L #	1
56) Isopropylbenzene	9.95	105	21988	2.066	ug/L	99
59) 1,2,3-Trichloropropane	11.27	75	19518	6.313	ug/L	91
65) 1,2-Dichlorobenzene	11.67	146	5324	1.049	ug/L	91
69) Naphthalene	13.53	128	84051	9.688	ug/L	100

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



#5

Vinyl chloride

Concen: 1.159 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

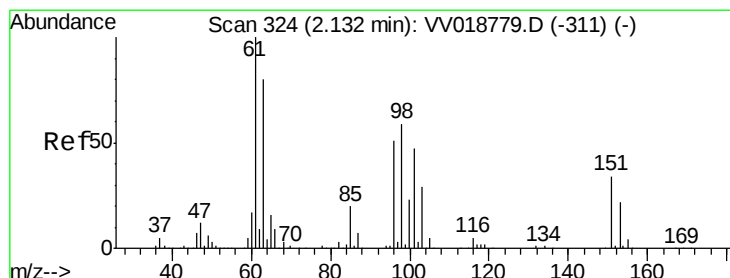
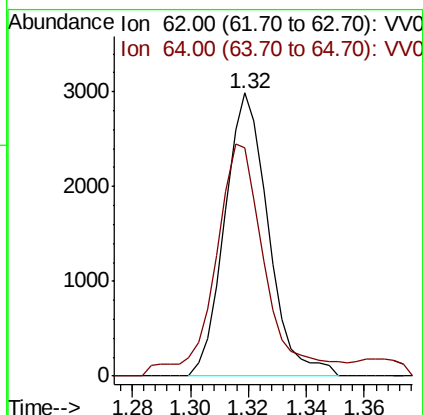
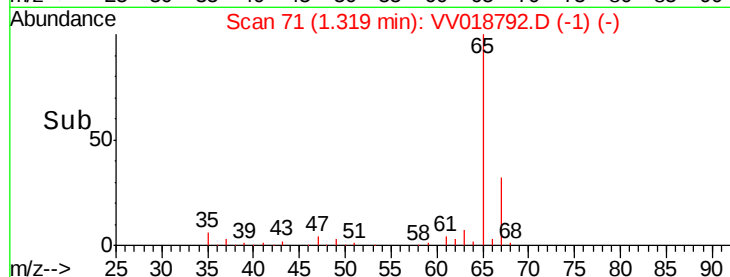
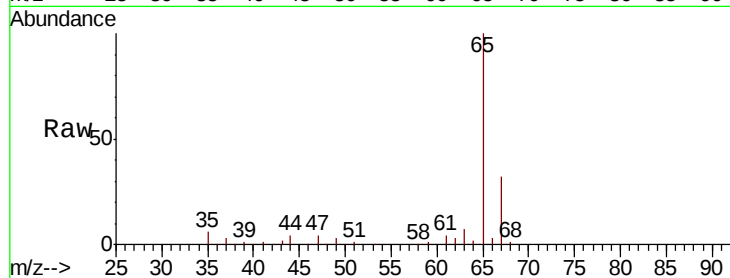
BG3N8

Tot Ion: 62 Resp: 3110

Ion Ratio Lower Upper

62 100

64 80.5 23.2 43.0#



#10

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

Concen: 0.739 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

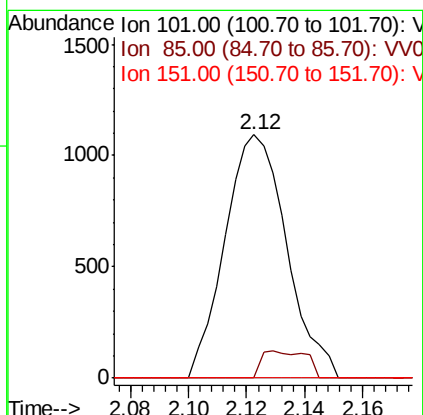
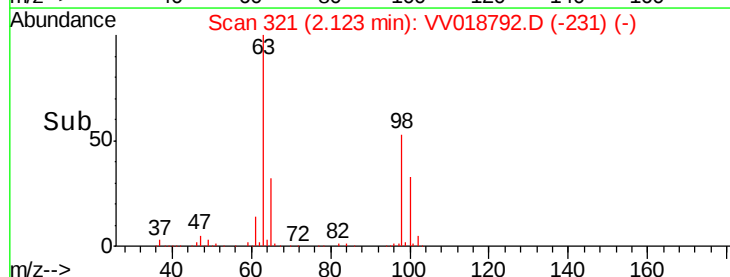
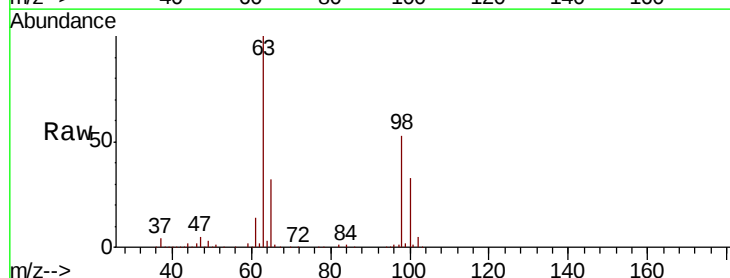
Tgt Ion: 101 Resp: 1614

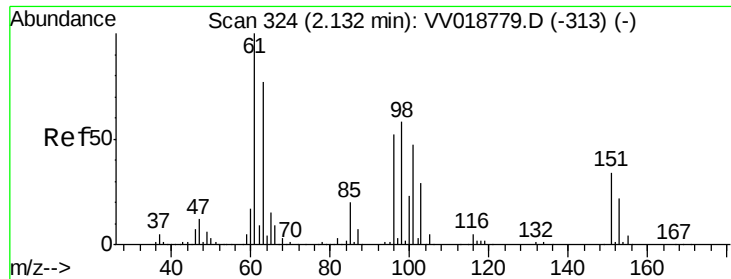
Ion Ratio Lower Upper

101 100

85 5.5 35.9 53.9#

151 0.0 59.8 89.8#





#12

1,1-Dichloroethene

Concen: 2.130 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampled :

BG3N8

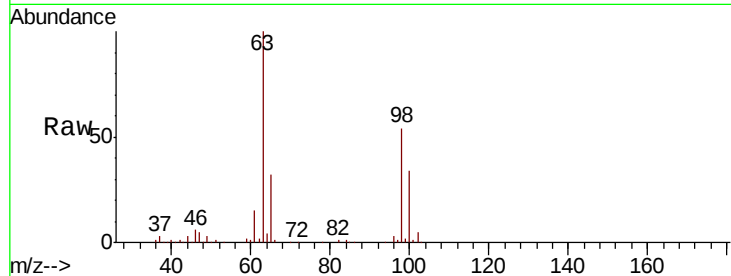
Tot Ion: 96 Resp: 4482

Ion Ratio Lower Upper

96 100

61 574.6 133.6 248.0#

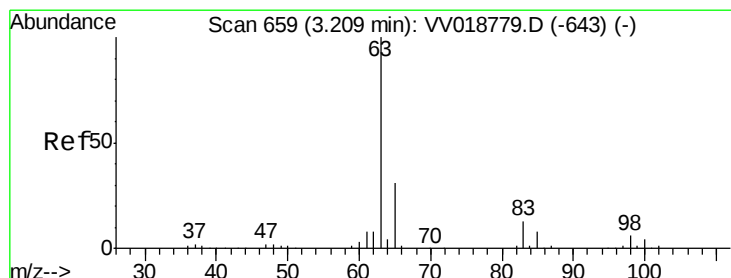
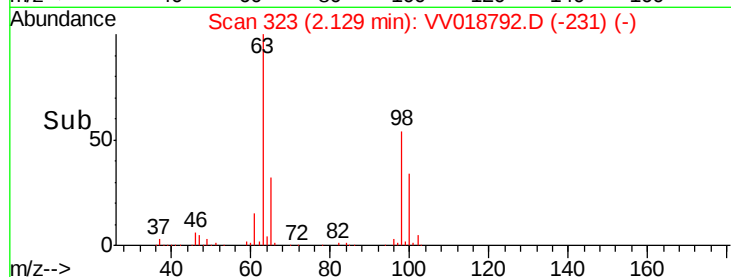
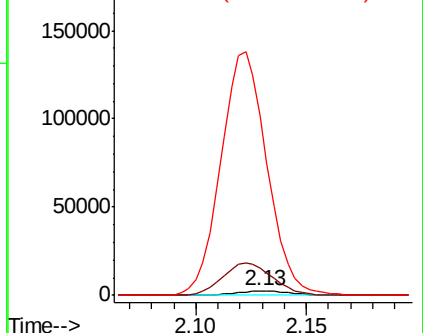
63 3779.3 108.4 201.4#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0



#19

1,1-Dichloroethane

Concen: 6.724 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

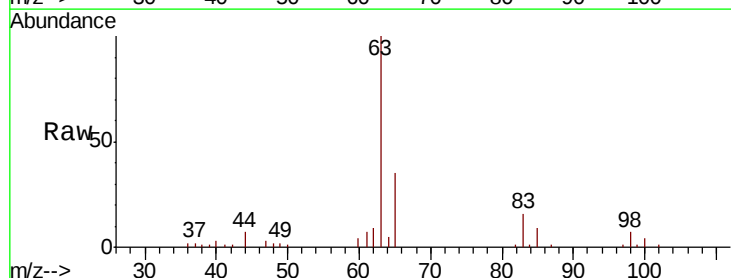
Tgt Ion: 63 Resp: 29306

Ion Ratio Lower Upper

63 100

65 34.5 22.0 40.8

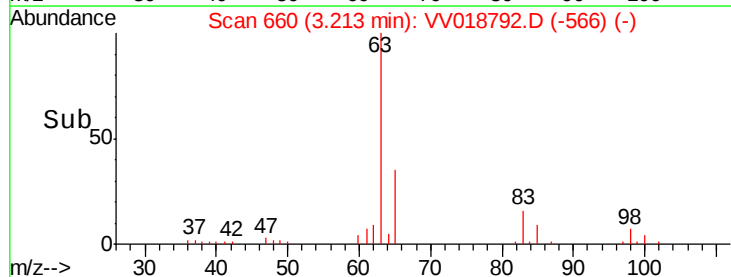
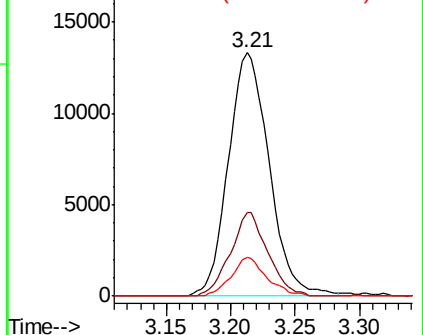
83 15.8 9.2 17.0

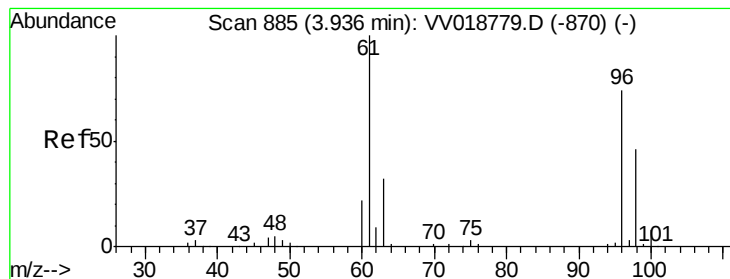


Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0





#20

cis-1,2-Dichloroethene

Concen: 71.429 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

BG3N8

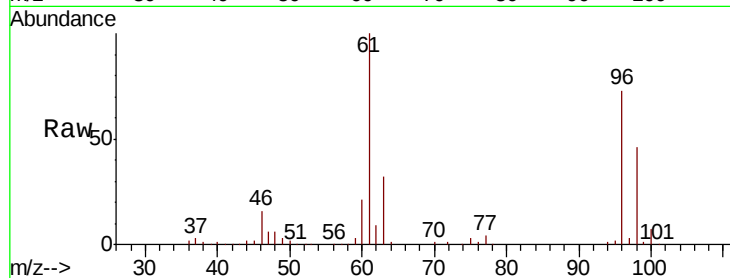
Tot Ion: 96 Resp: 167654

Ion Ratio Lower Upper

96 100

61 136.9 97.3 180.7

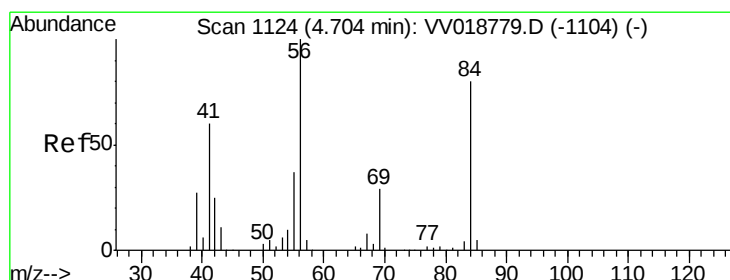
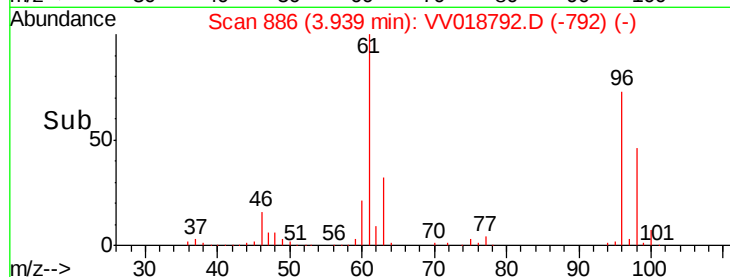
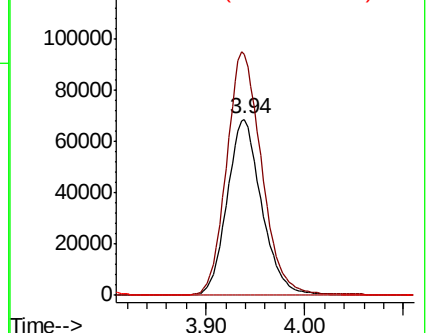
68 0.0 0.0 0.0



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: 3.531 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

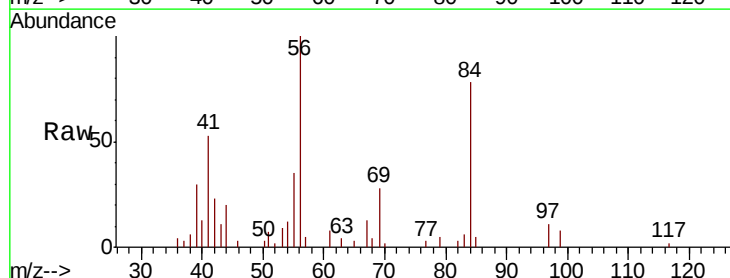
Tgt Ion: 56 Resp: 12750

Ion Ratio Lower Upper

56 100

69 27.5 23.1 34.7

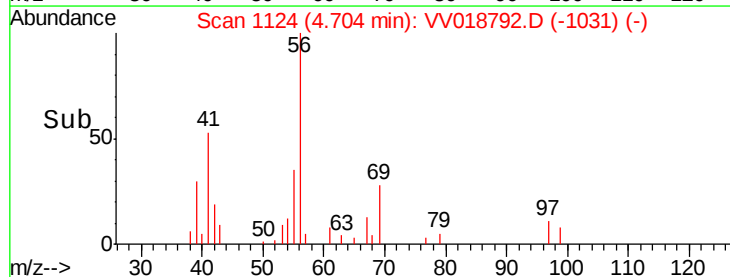
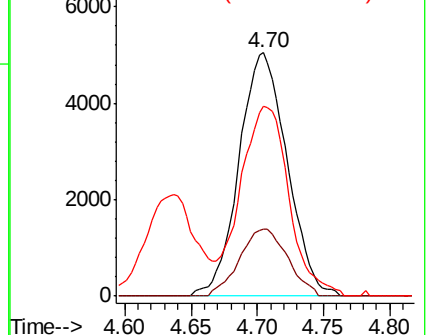
84 78.6 65.2 97.8

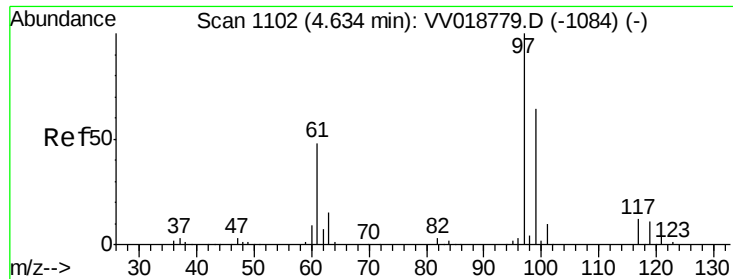


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



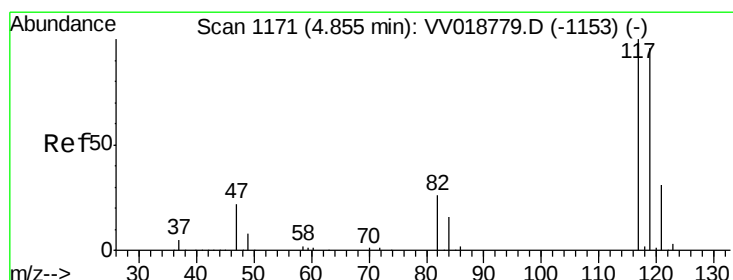
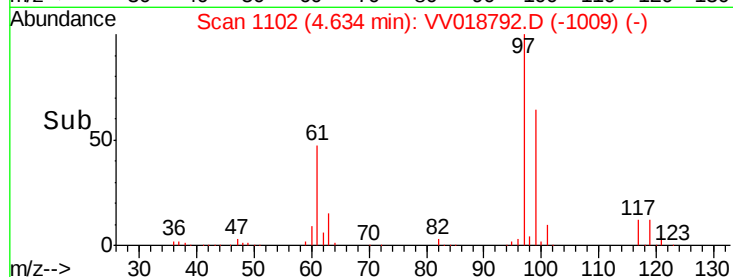
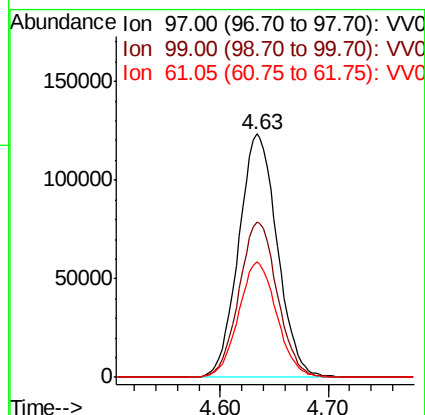
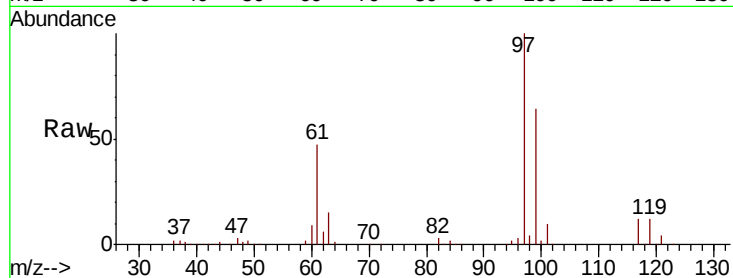


#30
 1,1,1-Trichloroethane
 Concen: 77.216 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VV018792.D
 Acq: 09 Oct 2020 04:11

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3N8

Tot Ion: 97 Resp: 306818

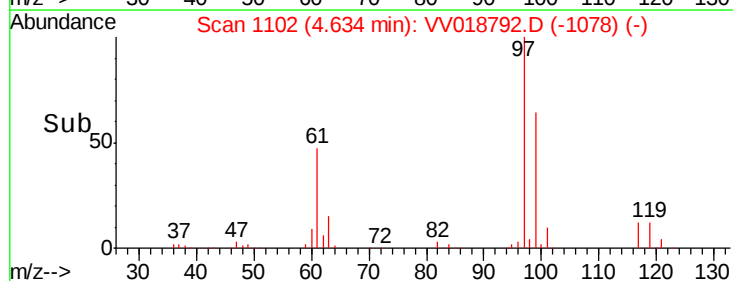
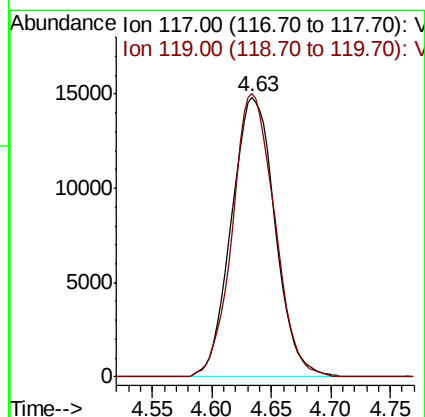
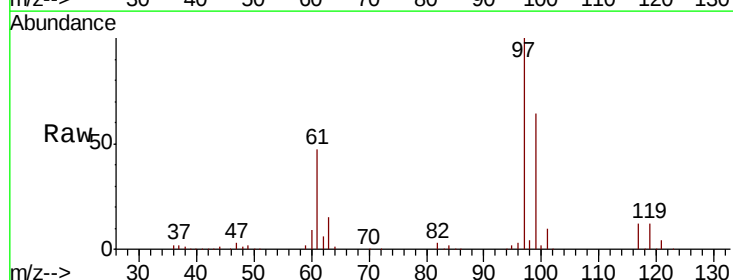
Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.4
61	47.1	37.0	55.4

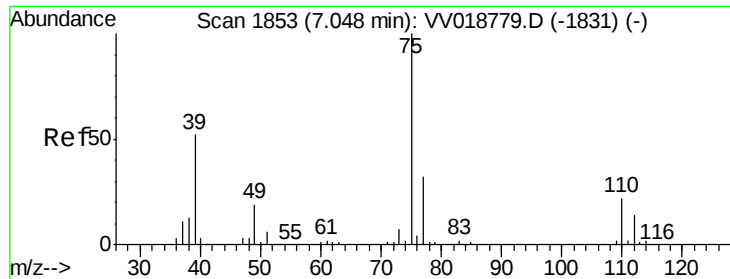


#31
 Carbon tetrachloride
 Concen: 11.251 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. -0.22 min
 Lab File: VV018792.D
 Acq: 09 Oct 2020 04:11

Tgt Ion: 117 Resp: 37681

Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.3	114.5

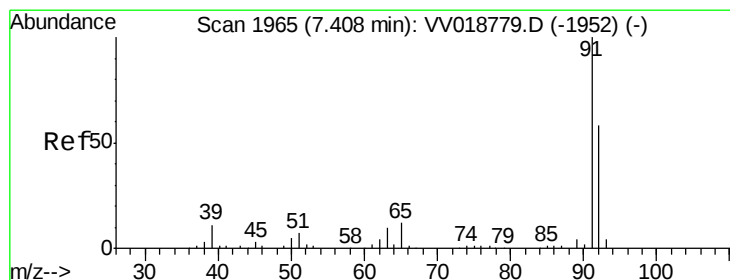
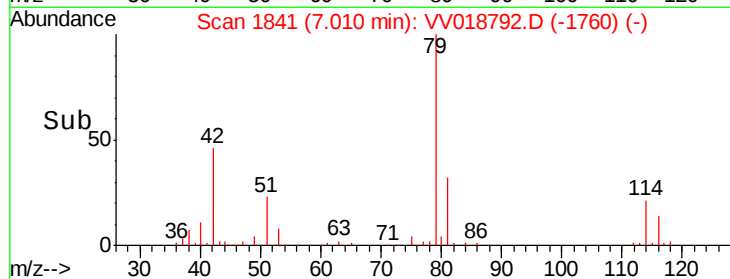
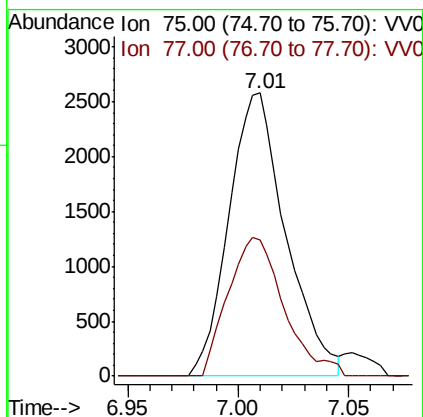
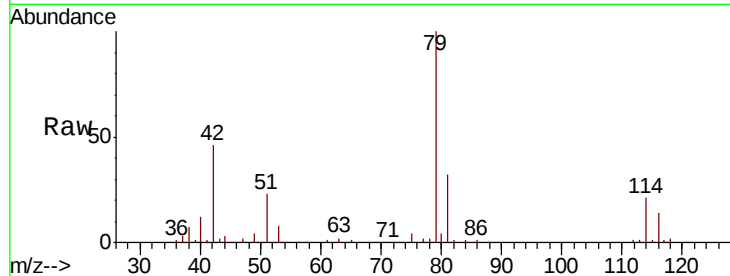




#39
 cis-1,3-Dichloropropene
 Concen: 1.261 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV018792.D
 Acq: 09 Oct 2020 04:11

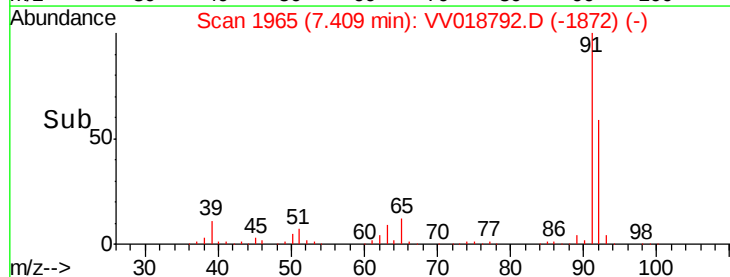
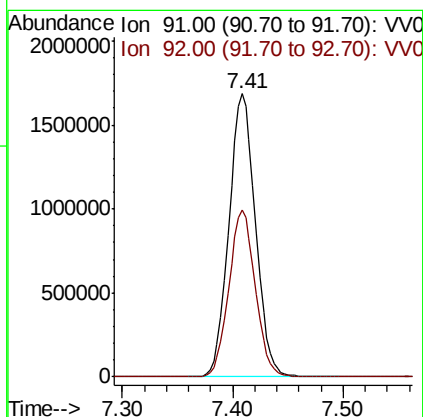
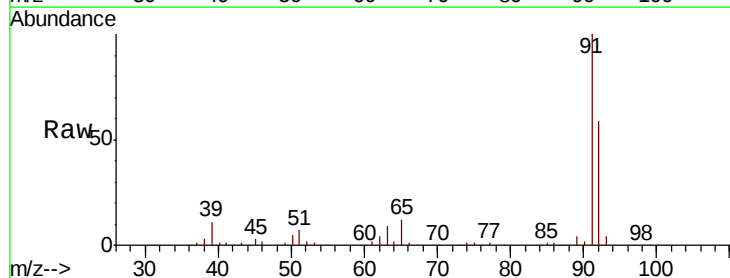
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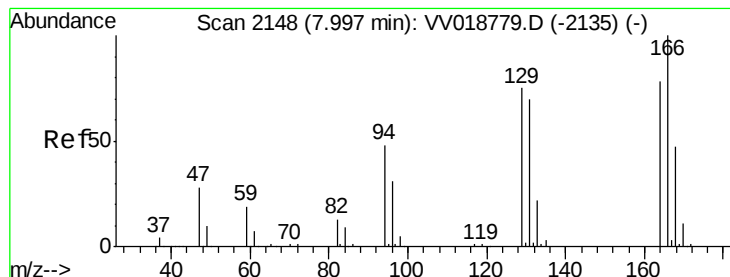
Tot Ion: 75 Resp: 4628
 Ion Ratio Lower Upper
 75 100
 77 48.3 21.8 40.6#



#42
 Toluene
 Concen: 289.366 ug/L
 RT: 7.41 min Scan# 1965
 Delta R.T. 0.00 min
 Lab File: VV018792.D
 Acq: 09 Oct 2020 04:11

Tgt Ion: 91 Resp: 2811244
 Ion Ratio Lower Upper
 91 100
 92 58.8 39.8 74.0





#46

Tetrachloroethene

Concen: 0.759 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

BG3N8

Tot Ion:164 Resp: 1514

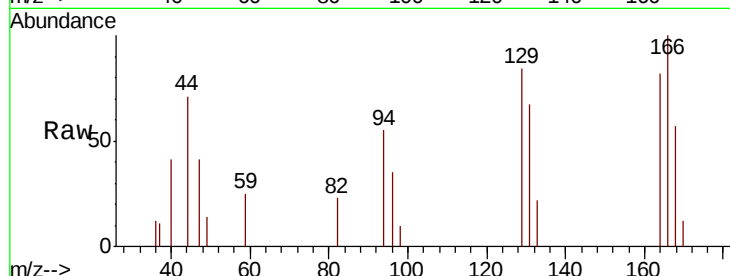
Ion Ratio Lower Upper

164 100

129 103.1 64.6 120.0

131 81.6 63.6 118.0

166 122.1 88.3 164.1

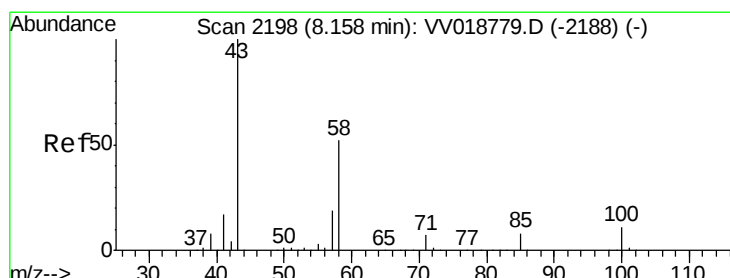
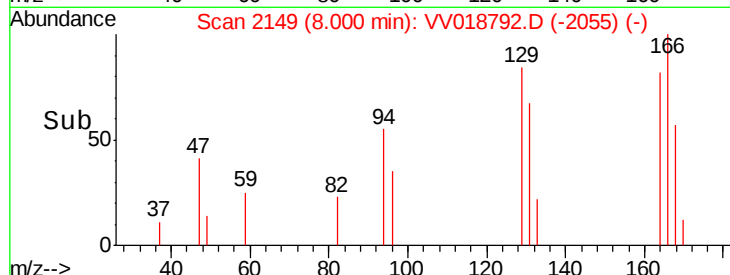
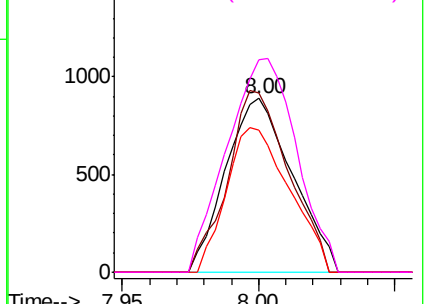


Abundance Ion 164.00 (163.70 to 164.70): V

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



#48

2-Hexanone

Concen: 5.647 ug/L

RT: 8.11 min Scan# 2182

Delta R.T. -0.05 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Tgt Ion: 43 Resp: 15052

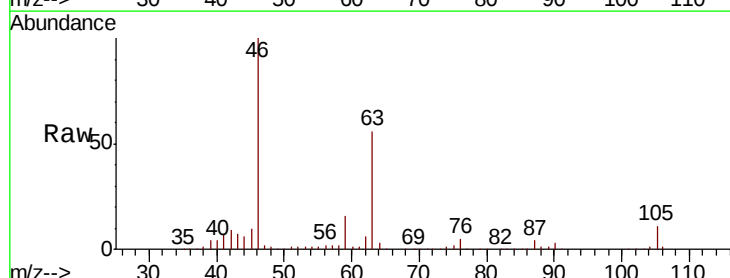
Ion Ratio Lower Upper

43 100

58 28.1 41.8 62.8#

57 23.1 14.9 22.3#

100 0.0 9.2 13.8#

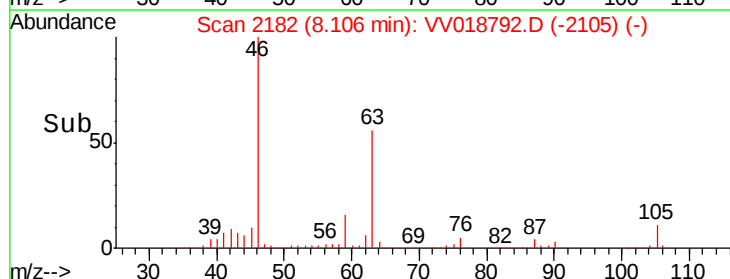
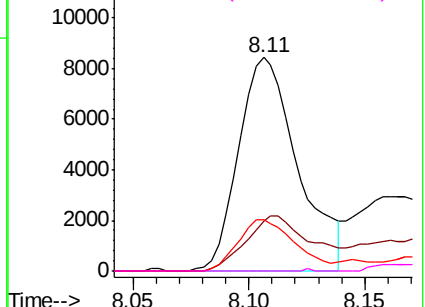


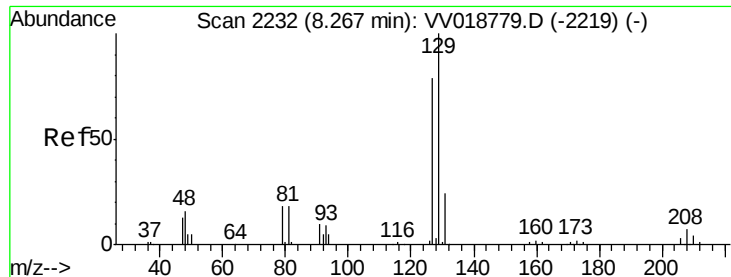
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 0.569 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

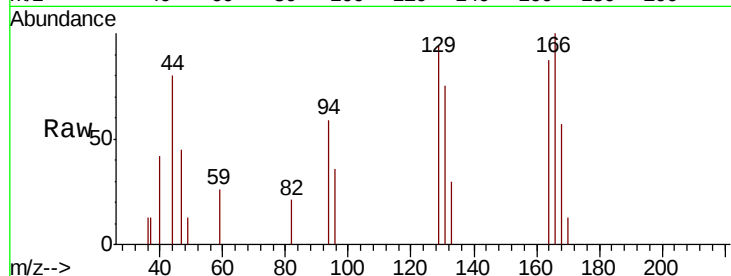
BG3N8

Tot Ion:129 Resp: 1450

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

8.00

1000

800

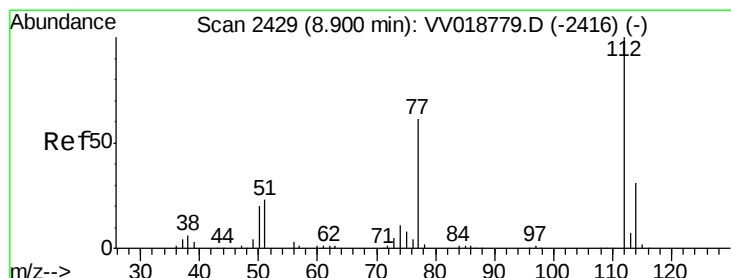
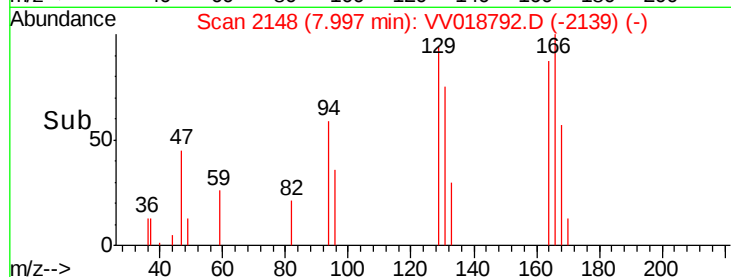
600

400

200

0

Time-->



#51

Chlorobenzene

Concen: 0.840 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

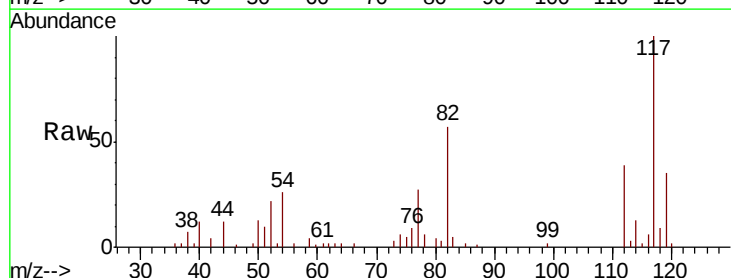
Tgt Ion:112 Resp: 5417

Ion Ratio Lower Upper

112 100

114 33.4 22.0 41.0

77 69.3 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

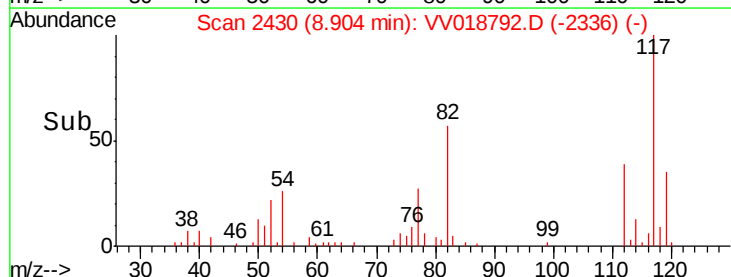
3000

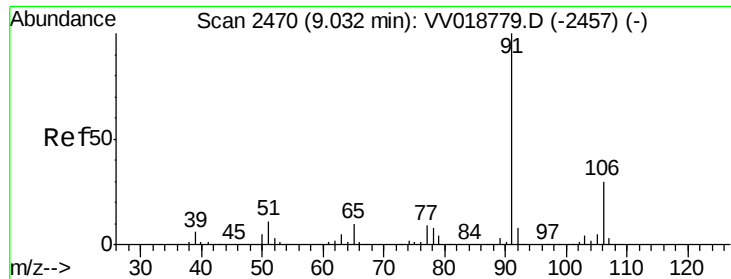
2000

1000

0

Time-->





#52

Ethylbenzene

Concen: 11.705 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

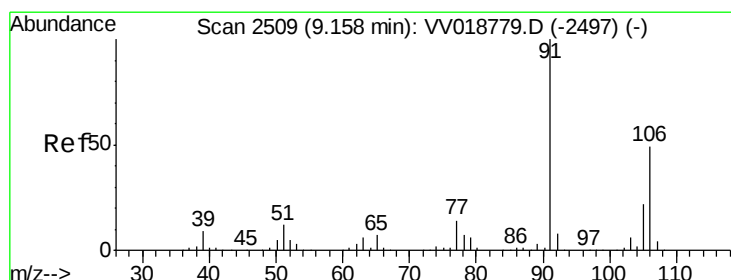
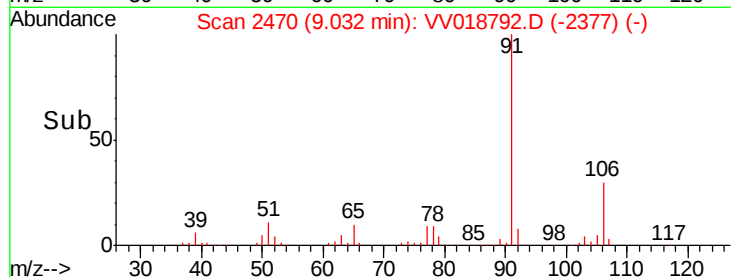
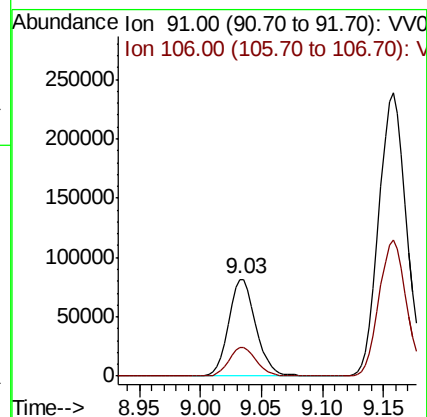
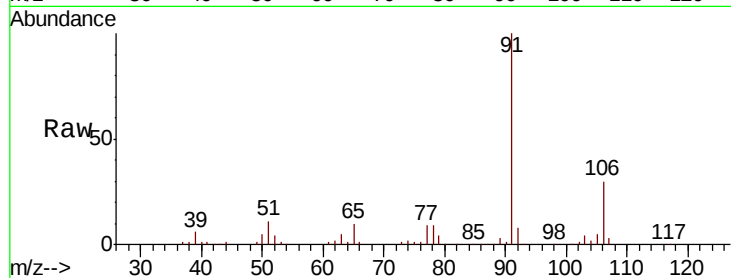
BG3N8

Tot Ion: 91 Resp: 129130

Ion Ratio Lower Upper

91 100

106 29.7 20.9 38.9



#53

m,p-Xylene

Concen: 44.254 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018792.D

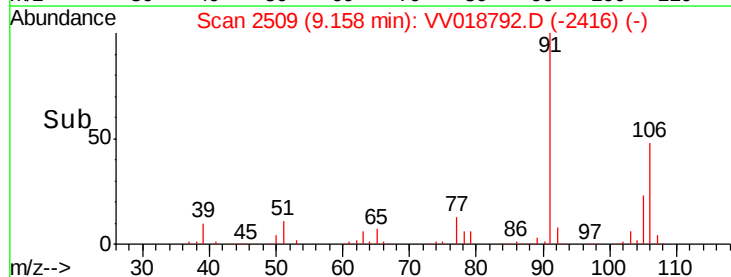
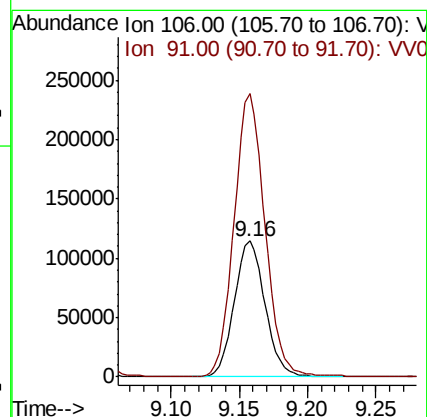
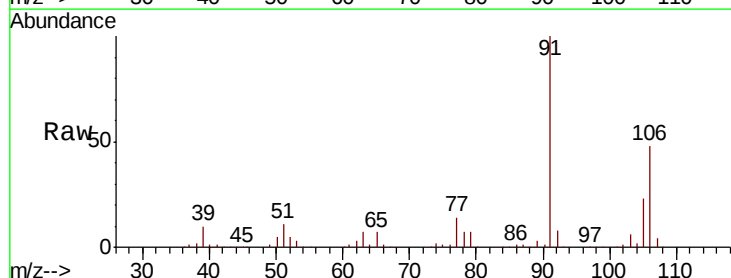
Acq: 09 Oct 2020 04:11

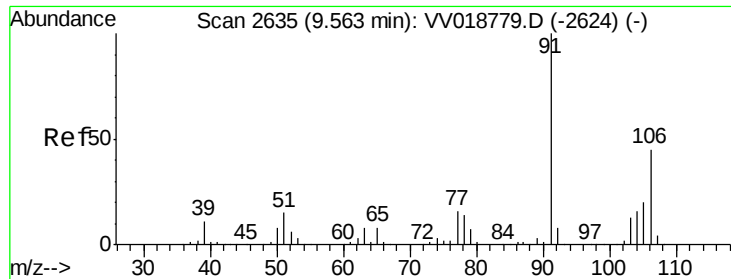
Tgt Ion: 106 Resp: 179213

Ion Ratio Lower Upper

106 100

91 208.0 147.1 273.1





#54

o-xylene

Concen: 26.327 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

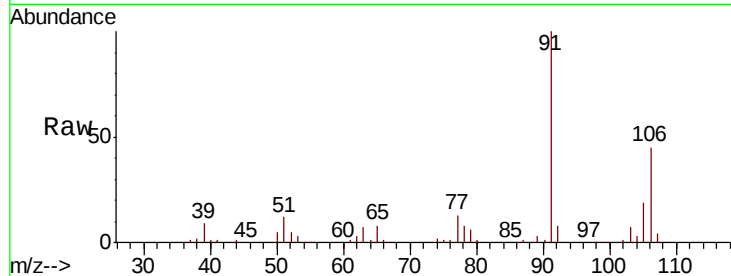
BG3N8

Tot Ion:106 Resp: 101261

Ion Ratio Lower Upper

106 100

91 222.3 156.8 291.2



Abundance Ion 106.00 (105.70 to 106.70): VV018779.D (-2624) (-)

Ion 91.00 (90.70 to 91.70): VV018779.D (-2624) (-)

150000

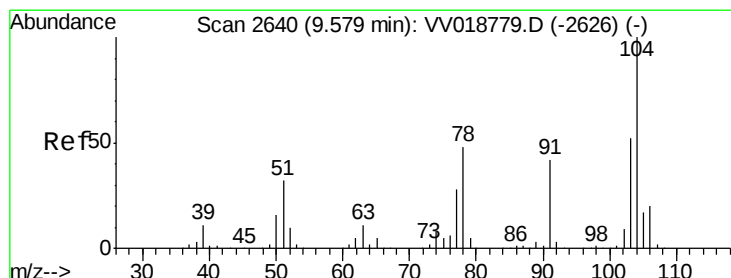
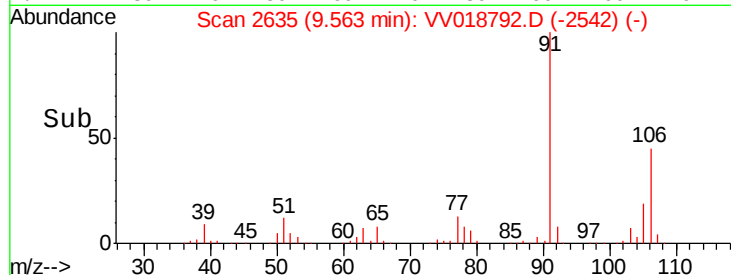
100000

50000

0

9.50 9.55 9.60 9.65

Time-->



#55

Styrene

Concen: 0.859 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VV018792.D

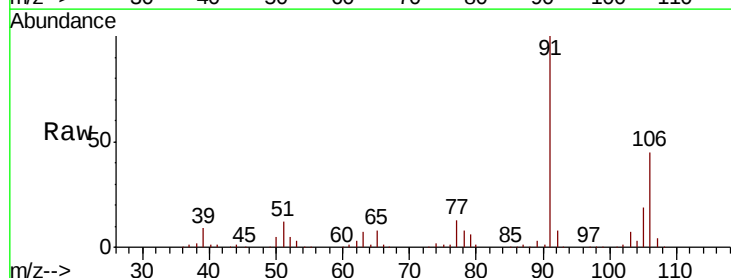
Acq: 09 Oct 2020 04:11

Tgt Ion:104 Resp: 5845

Ion Ratio Lower Upper

104 100

78 307.1 33.5 62.3#



Abundance Ion 104.00 (103.70 to 104.70): VV018779.D (-2626) (-)

Ion 78.00 (77.70 to 78.70): VV018779.D (-2626) (-)

12000

10000

8000

6000

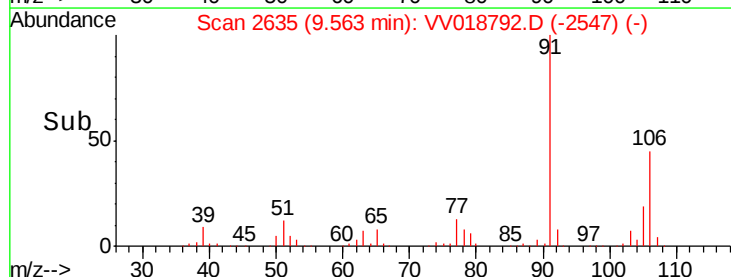
4000

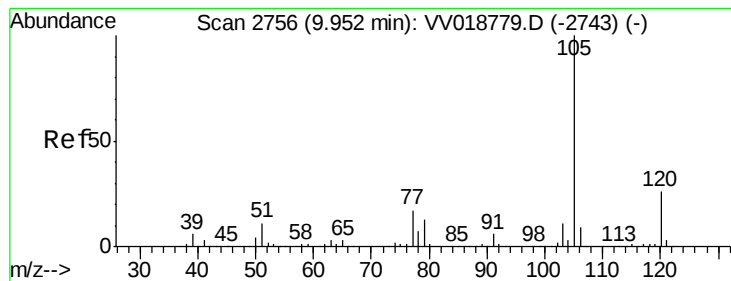
2000

0

9.50 9.55 9.60 9.65

Time-->





#56

Isopropylbenzene

Concen: 2.066 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

BG3N8

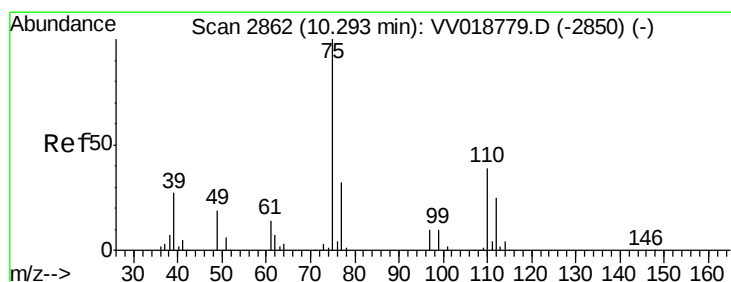
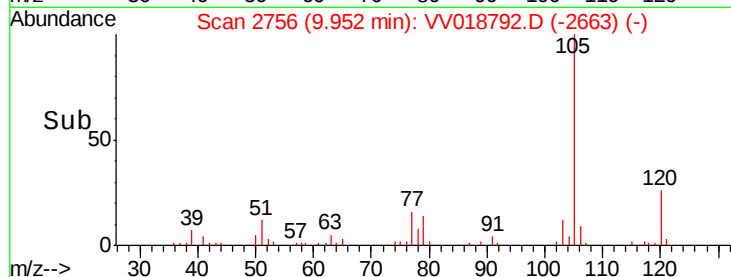
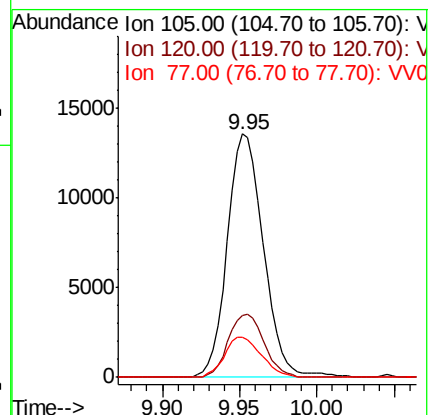
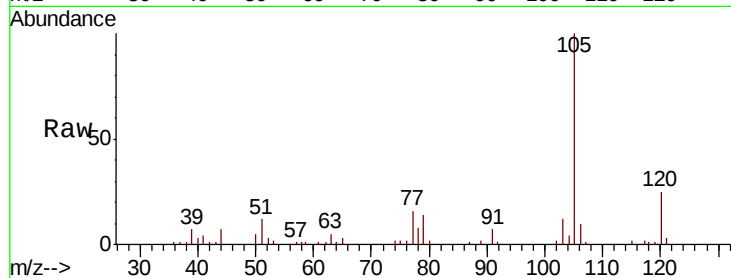
Tot Ion:105 Resp: 21988

Ion Ratio Lower Upper

105 100

120 25.4 20.4 30.6

77 16.8 13.0 19.6



#59

1,2,3-Trichloropropane

Concen: 6.313 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV018792.D

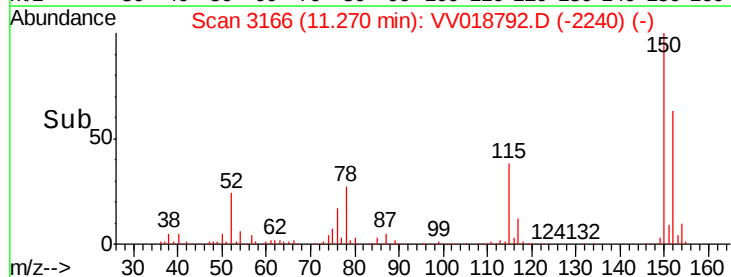
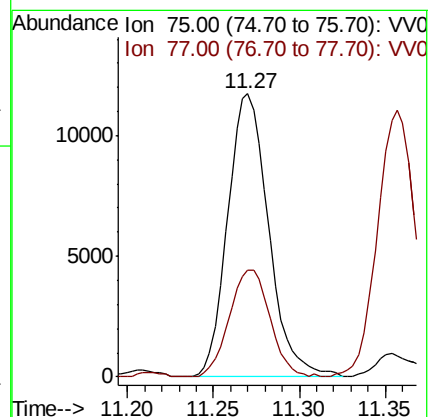
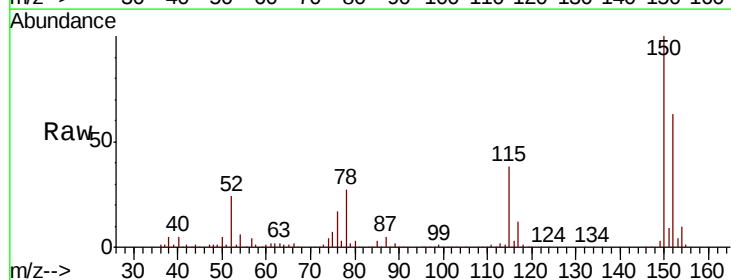
Acq: 09 Oct 2020 04:11

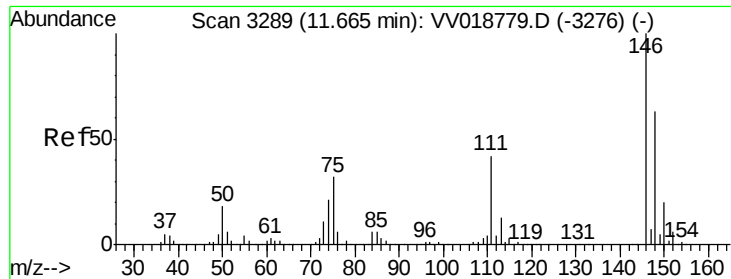
Tgt Ion: 75 Resp: 19518

Ion Ratio Lower Upper

75 100

77 37.2 25.9 38.9





#65

1,2-Dichlorobenzene

Concen: 1.049 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

Instrument :

MSVOA_V

ClientSampleId :

BG3N8

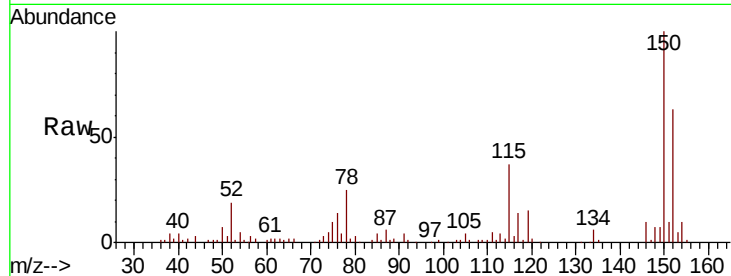
Tot Ion:146 Resp: 5324

Ion Ratio Lower Upper

146 100

111 49.1 33.8 50.6

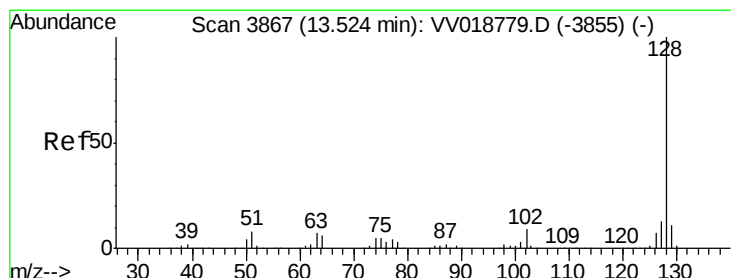
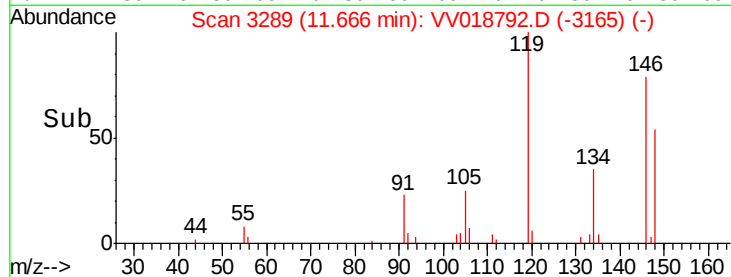
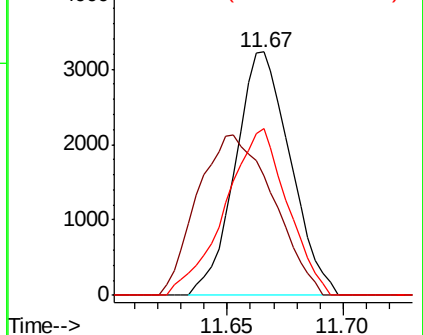
148 68.3 50.3 75.5



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



#69

Naphthalene

Concen: 9.688 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV018792.D

Acq: 09 Oct 2020 04:11

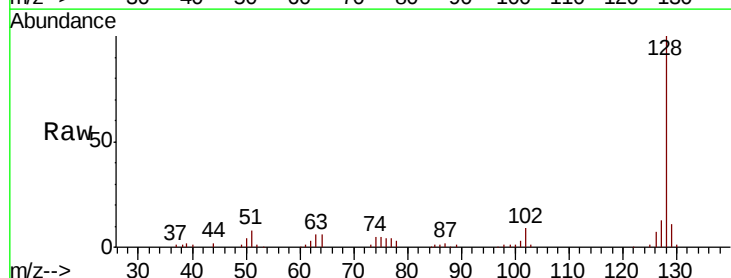
Tgt Ion:128 Resp: 84051

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

