

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\
 Data File : VV018822.D
 Acq On : 09 Oct 2020 16:23
 Operator : SY/MD
 Sample : L4239-12RE
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P8RE

Quant Time: Oct 09 23:55:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM100820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 09 23:43:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	225155	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	223556	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	114141	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	106096	51.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	103.72%
7) Chloroethane-d5	1.58	69	92756	56.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	112.66%
11) 1,1-Dichloroethene-d2	2.12	63	168603	42.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.50%
21) 2-Butanone-d5	3.90	46	245768	195.65	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	195.65%#
24) Chloroform-d	4.37	84	218594	60.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	121.12%
26) 1,2-Dichloroethane-d4	5.05	65	156524	63.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	127.94%#
32) Benzene-d6	5.07	84	426452	59.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	118.54%
36) 1,2-Dichloropropane-d6	6.09	67	135350	57.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	115.40%
41) Toluene-d8	7.34	98	373390	58.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	116.94%
43) trans-1,3-Dichloropropene-	7.64	79	67040	58.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	116.92%
47) 2-Hexanone-d5	8.11	63	124389	151.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	151.29%#
57) 1,1,2,2-Tetrachloroethane-	10.23	84	138477	51.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.62%
64) 1,2-Dichlorobenzene-d4	11.65	152	158530	62.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	125.52%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1334	0.824	ug/L #	19
12) 1,1-Dichloroethene	2.12	96	1357	0.871	ug/L #	1
20) cis-1,2-Dichloroethene	3.95	96	1659	0.954	ug/L	92
29) Cyclohexane	4.70	56	1837	0.679	ug/L #	95
30) 1,1,1-Trichloroethane	4.64	97	2389	0.802	ug/L #	86
42) Toluene	7.41	91	39639	5.441	ug/L	100
44) trans-1,3-Dichloropropene	7.64	75	3108	1.102	ug/L	94
46) Tetrachloroethene	8.00	164	1033	0.691	ug/L	86
48) 2-Hexanone	8.16	43	29527	14.773	ug/L #	80
49) Dibromochloromethane	7.99	129	1061	0.555	ug/L #	10
52) Ethylbenzene	9.04	91	10561	1.277	ug/L	94
53) m,p-Xylene	9.16	106	9986	3.288	ug/L	93
54) o-xylene	9.57	106	5385	1.867	ug/L	95
56) Isopropylbenzene	9.96	105	8608	1.079	ug/L	98
59) 1,2,3-Trichloropropane	11.27	75	13597	5.865	ug/L	93
67) 1,3,5-Trichlorobenzene	13.29	180	3779	1.568	ug/L	99
68) 1,2,4-trichlorobenzene	13.29	180	3779	1.667	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Oct 09 23:43:53 2020
Response via : Initial Calibration

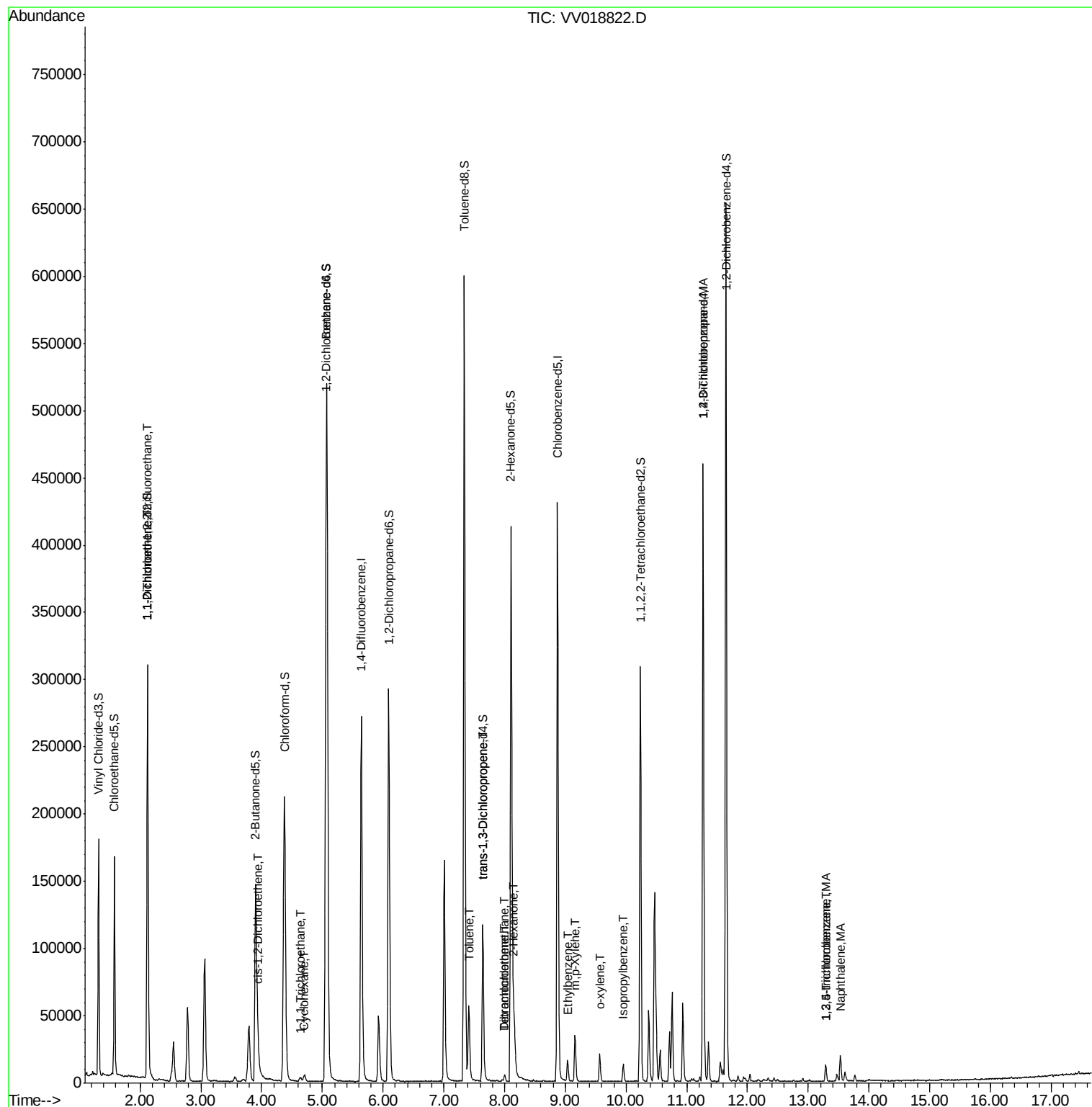
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.53	128	13788	2.159	ug/L	99

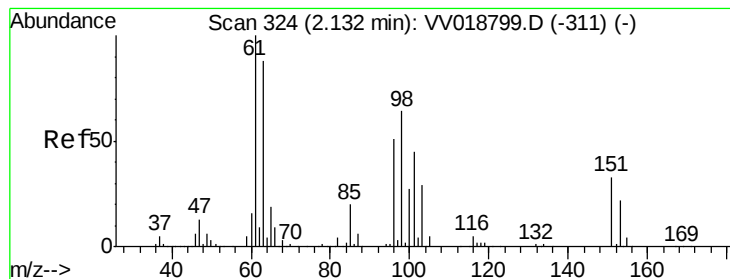
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 09 23:43:53 2020
Response via : Initial Calibration





#10

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

Concen: 0.824 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Instrument :

MSVOA_V

ClientSampled :

BG3P8RE

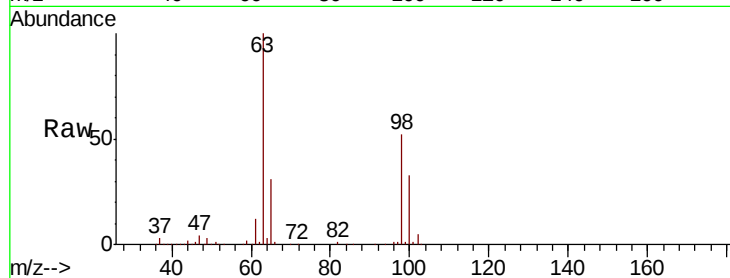
Tot Ion:101 Resp: 1334

Ion Ratio Lower Upper

101 100

85 0.0 35.9 53.9#

151 0.0 59.8 89.8#

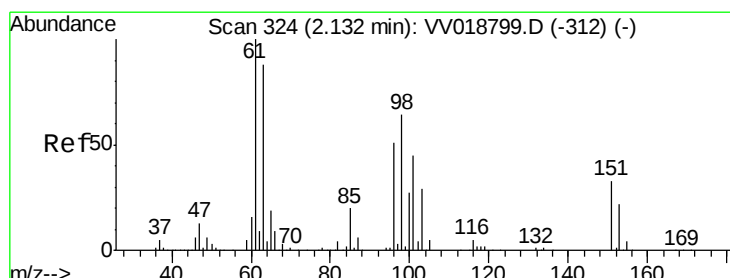
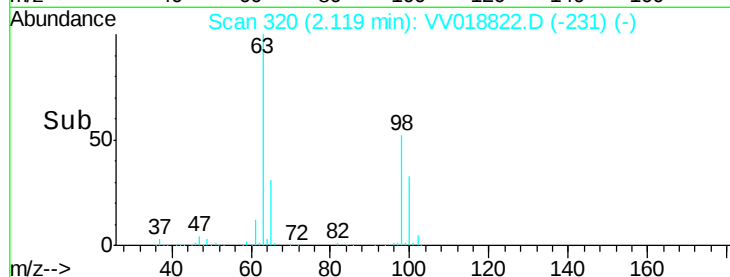
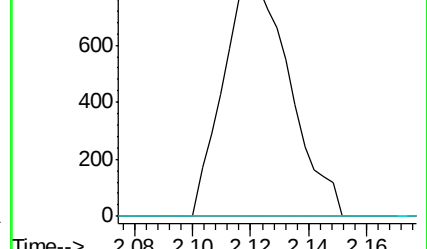


Abundance Ion 101.00 (100.70 to 101.70): VV018822.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV018822.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV018822.D (-231) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 0.871 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

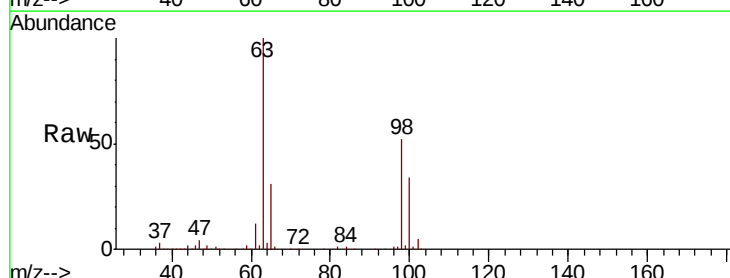
Tgt Ion: 96 Resp: 1357

Ion Ratio Lower Upper

96 100

61 1440.4 133.6 248.0#

63 12244.5 108.4 201.4#

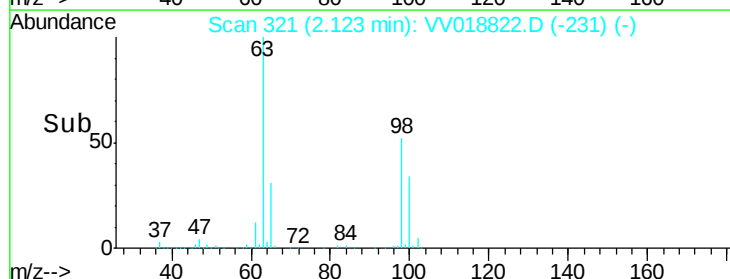
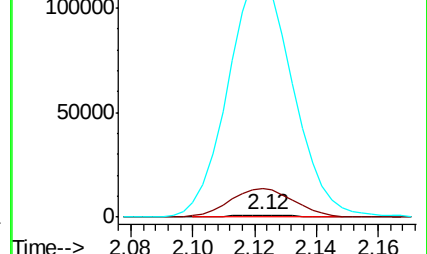


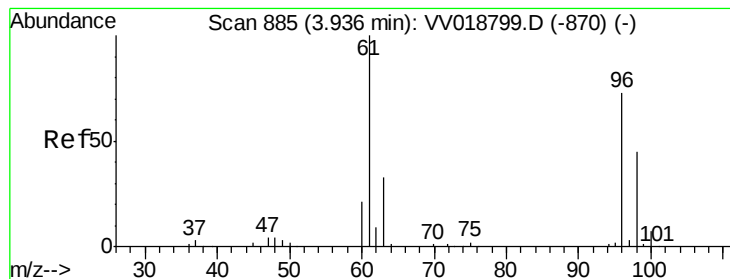
Abundance Ion 96.00 (95.70 to 96.70): VV018822.D (-231) (-)

Ion 61.00 (60.70 to 61.70): VV018822.D (-231) (-)

Ion 63.00 (62.70 to 63.70): VV018822.D (-231) (-)

Time-->





#20

cis-1,2-Dichloroethene

Concen: 0.954 ug/L

RT: 3.95 min Scan# 889

Delta R.T. 0.01 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Instrument :

MSVOA_V

ClientSampleId :

BG3P8RE

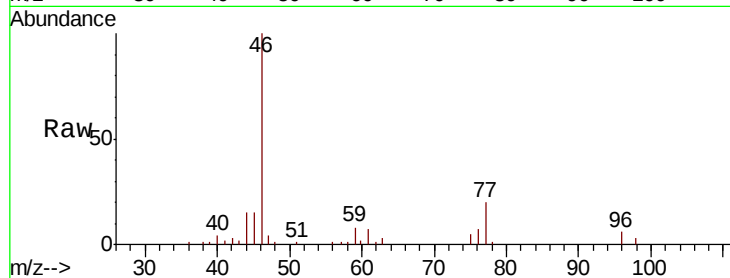
Tot Ion: 96 Resp: 1659

Ion Ratio Lower Upper

96 100

61 129.8 97.3 180.7

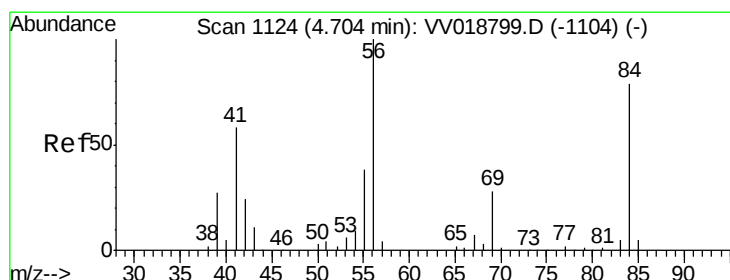
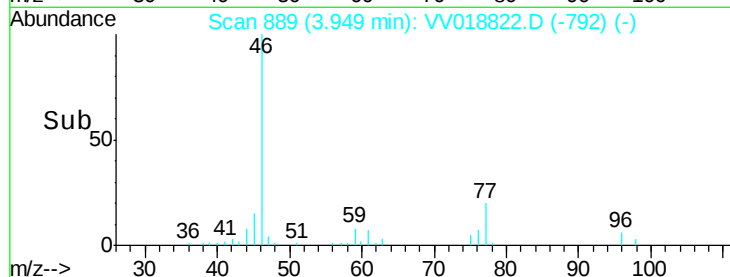
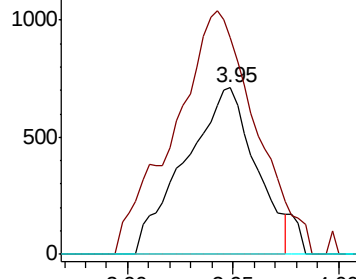
68 0.0 0.0 0.0



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: 0.679 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

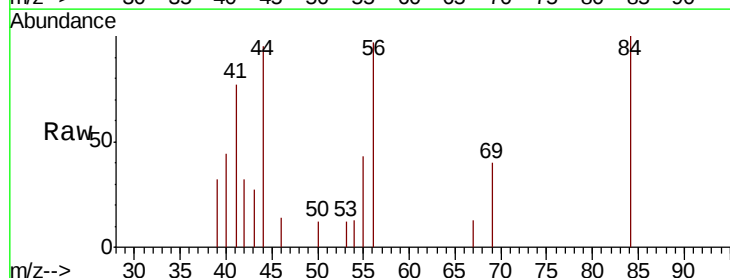
Tgt Ion: 56 Resp: 1837

Ion Ratio Lower Upper

56 100

69 38.9 23.1 34.7#

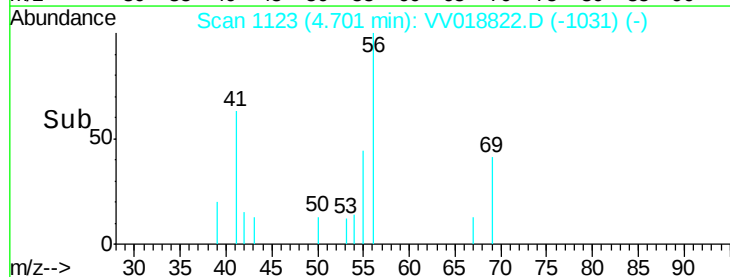
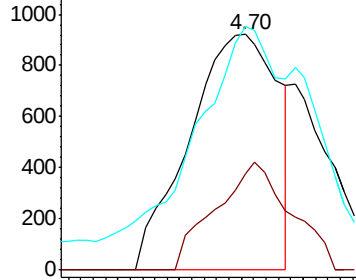
84 81.7 65.2 97.8

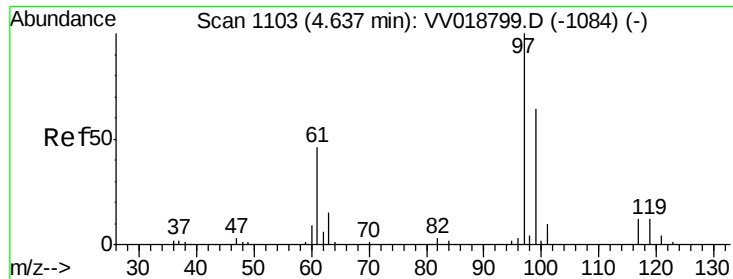


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0

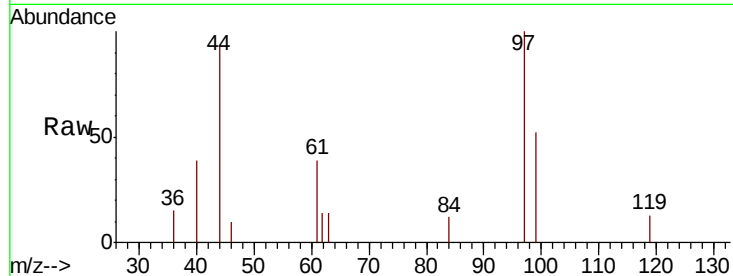




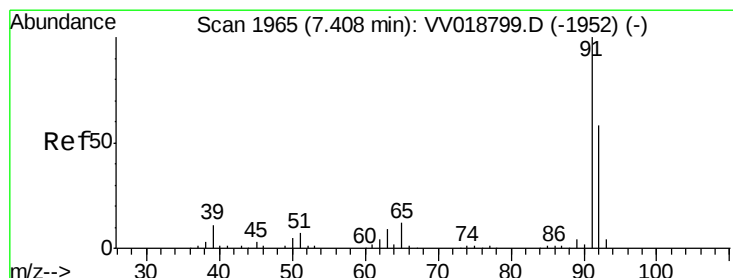
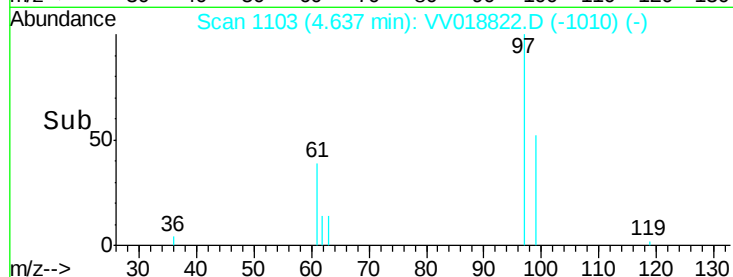
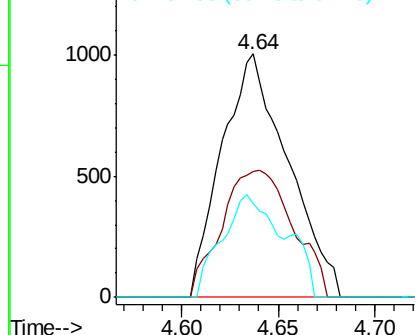
#30
 1,1,1-Trichloroethane
 Concen: 0.802 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VV018822.D
 Acq: 09 Oct 2020 16:23

Instrument :
 MSVOA_V
 ClientSampled :
 BG3P8RE

Tot Ion: 97 Resp: 2389
 Ion Ratio Lower Upper
 97 100
 99 56.3 51.0 76.4
 61 32.9 37.0 55.4#

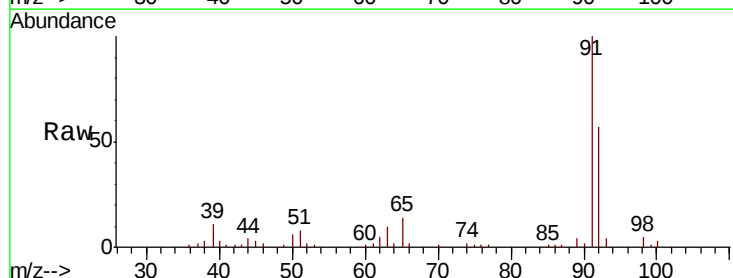


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0

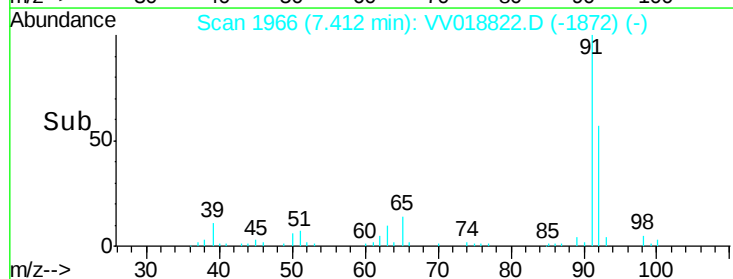
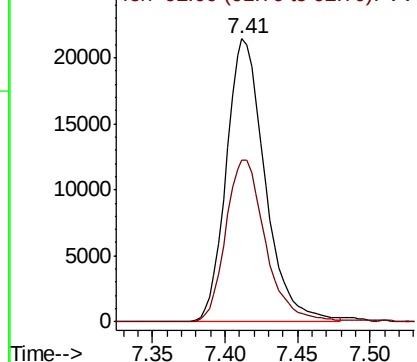


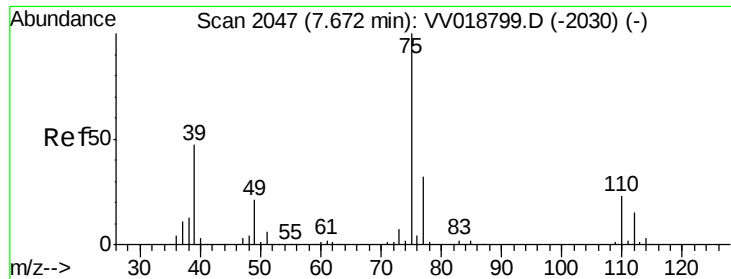
#42
 Toluene
 Concen: 5.441 ug/L
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VV018822.D
 Acq: 09 Oct 2020 16:23

Tgt Ion: 91 Resp: 39639
 Ion Ratio Lower Upper
 91 100
 92 57.1 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VV0
 Ion 92.00 (91.70 to 92.70): VV0





#44

trans-1,3-Dichloropropene

Concen: 1.102 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Instrument :

MSVOA_V

ClientSampleId :

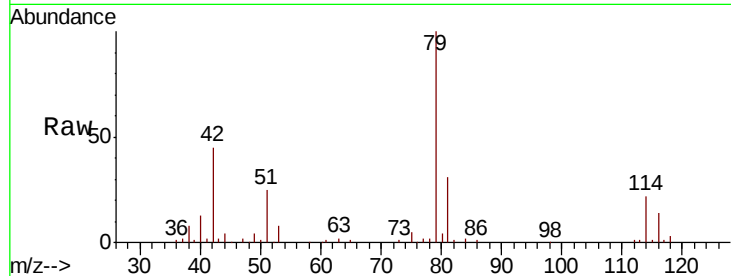
BG3P8RE

Tot Ion: 75 Resp: 3108

Ion Ratio Lower Upper

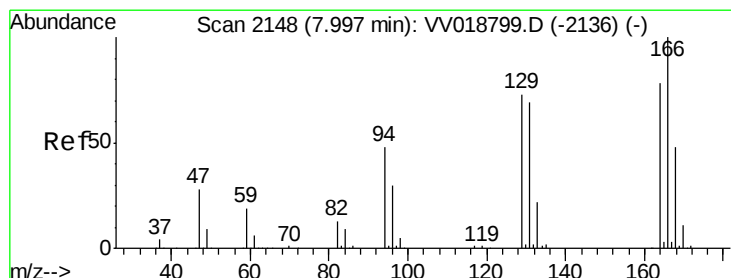
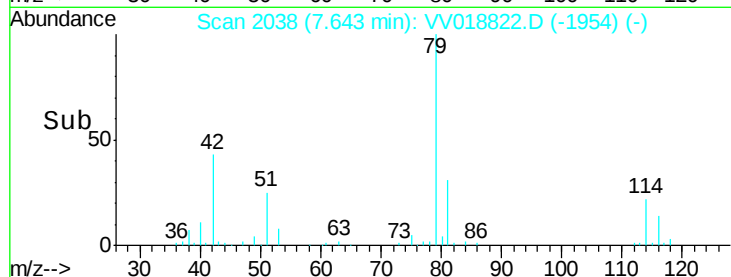
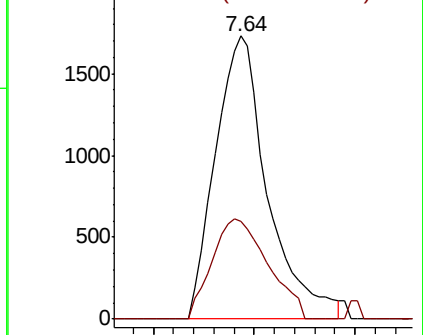
75 100

77 34.7 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VV018799.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV018799.D (-2030) (-)



#46

Tetrachloroethene

Concen: 0.691 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Tgt Ion: 164 Resp: 1033

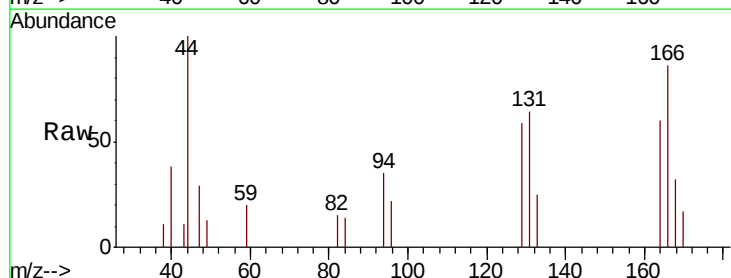
Ion Ratio Lower Upper

164 100

129 98.2 64.6 120.0

131 107.7 63.6 118.0

166 144.3 88.3 164.1

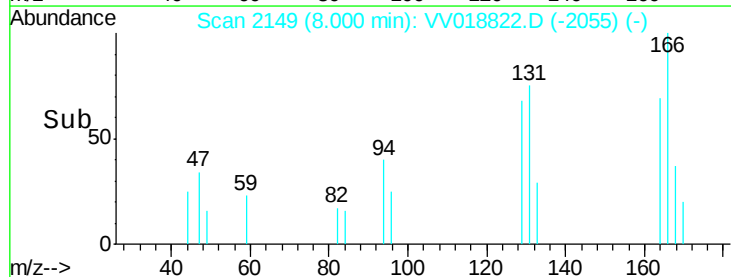
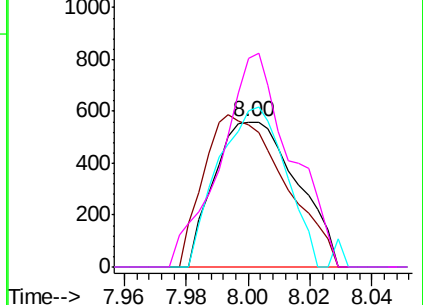


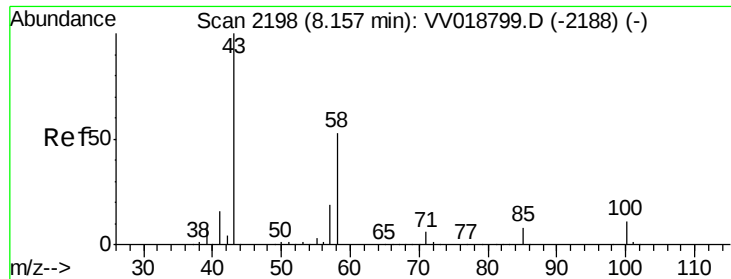
Abundance Ion 164.00 (163.70 to 164.70): VV018799.D (-2136) (-)

Ion 129.00 (128.70 to 129.70): VV018799.D (-2136) (-)

Ion 131.00 (130.70 to 131.70): VV018799.D (-2136) (-)

Ion 166.00 (165.70 to 166.70): VV018799.D (-2136) (-)

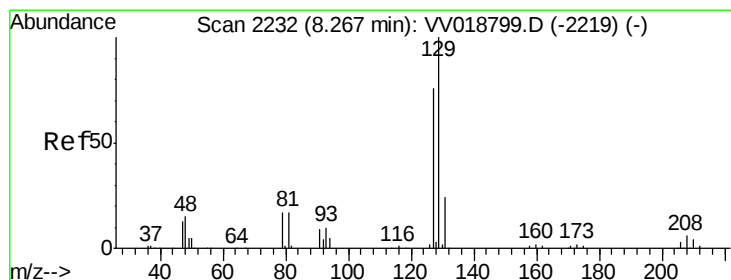
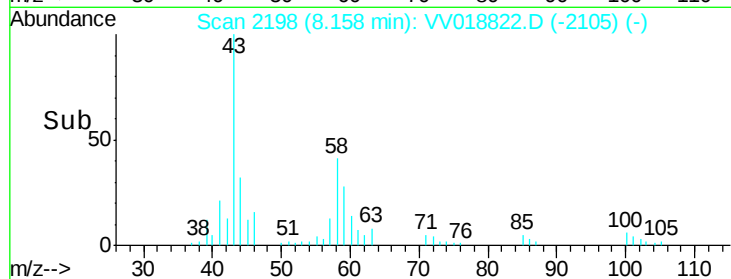
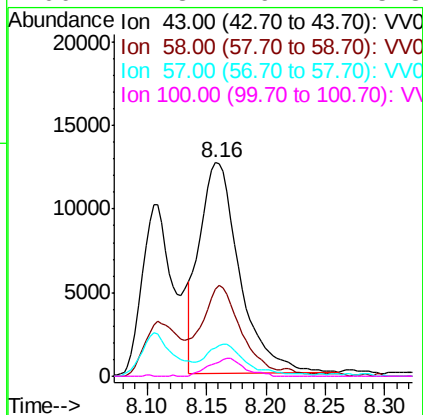
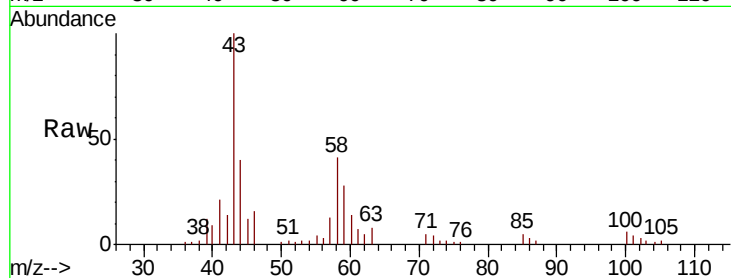




#48
2-Hexanone
Concen: 14.773 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV018822.D
Acq: 09 Oct 2020 16:23

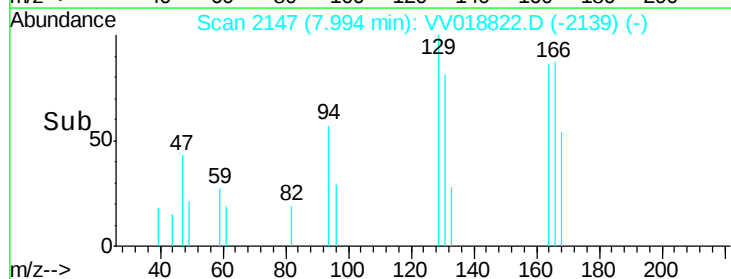
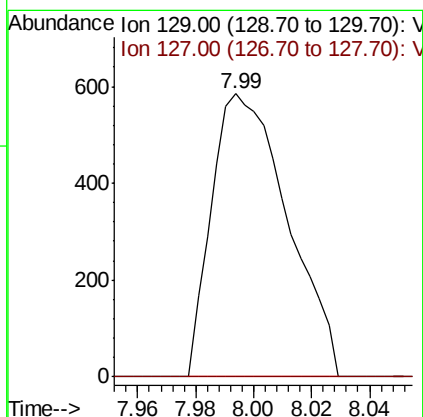
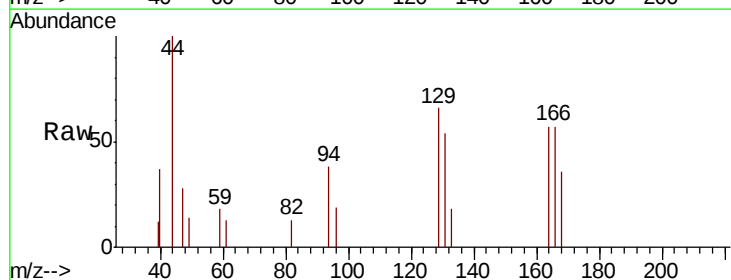
Instrument :
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ClientSampleId :
BG3P8RE

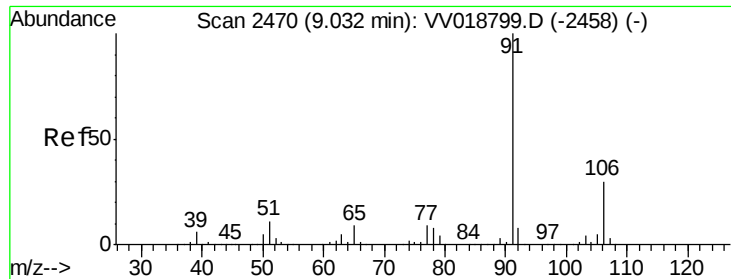
Tot Ion: 43 Resp: 29527
Ion Ratio Lower Upper
43 100
58 35.9 41.8 62.8#
57 10.3 14.9 22.3#
100 7.3 9.2 13.8#



#49
Dibromochloromethane
Concen: 0.555 ug/L
RT: 7.99 min Scan# 2147
Delta R.T. -0.27 min
Lab File: VV018822.D
Acq: 09 Oct 2020 16:23

Tgt Ion: 129 Resp: 1061
Ion Ratio Lower Upper
129 100
127 0.0 55.3 102.7#





#52

Ethylbenzene

Concen: 1.277 ug/L

RT: 9.04 min Scan# 2472

Delta R.T. 0.01 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Instrument :

MSVOA_V

ClientSampleId :

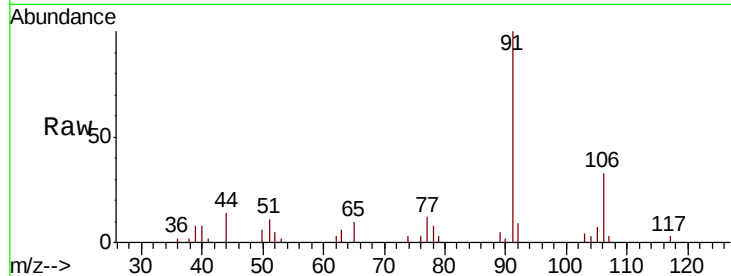
BG3P8RE

Tot Ion: 91 Resp: 10561

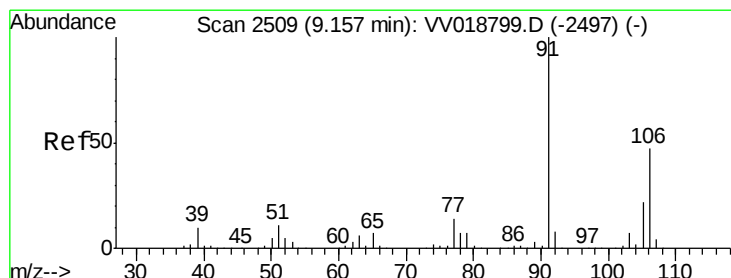
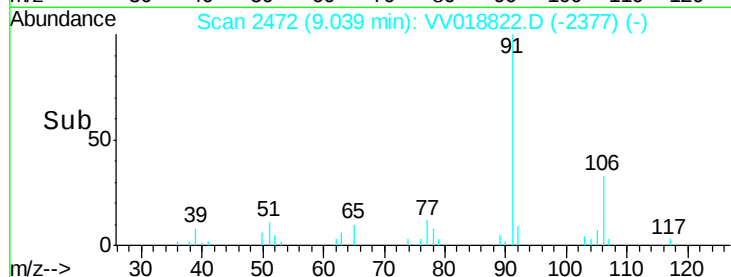
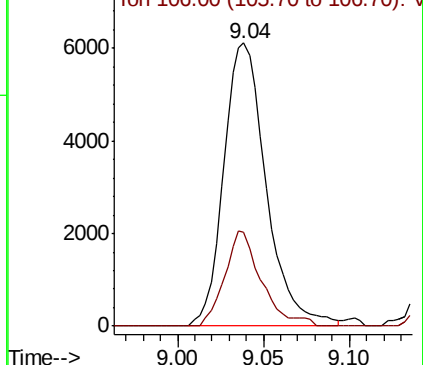
Ion Ratio Lower Upper

91 100

106 33.3 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VV018799.D (-2458) (-)



#53

m,p-Xylene

Concen: 3.288 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV018822.D

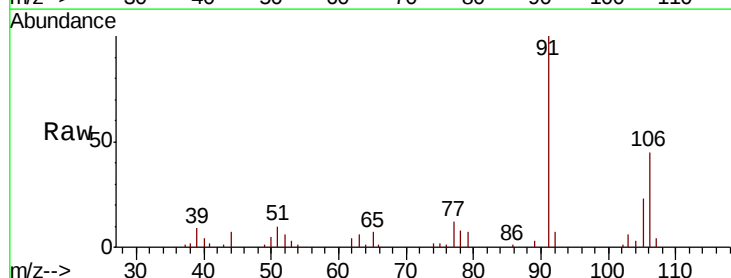
Acq: 09 Oct 2020 16:23

Tgt Ion: 106 Resp: 9986

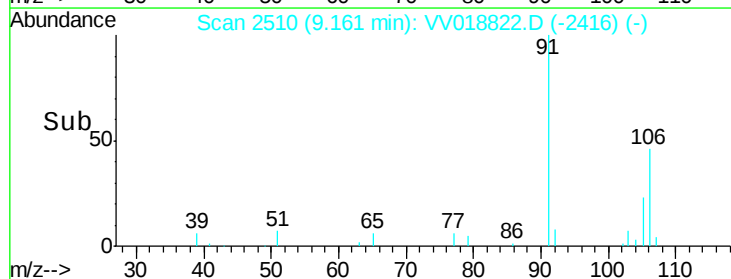
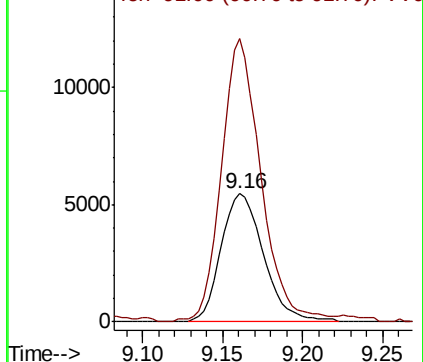
Ion Ratio Lower Upper

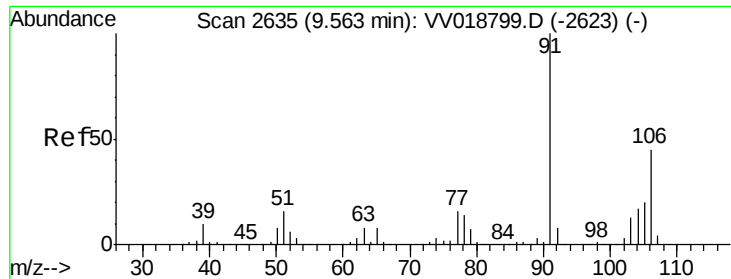
106 100

91 220.9 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): VV018799.D (-2497) (-)

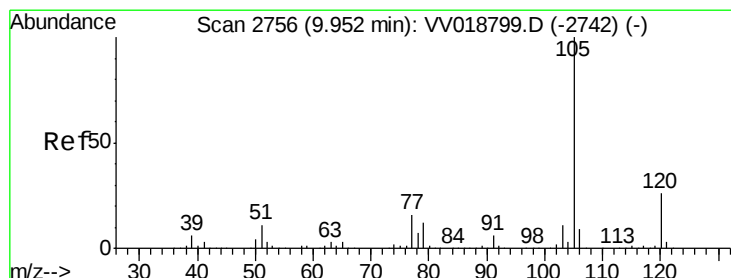
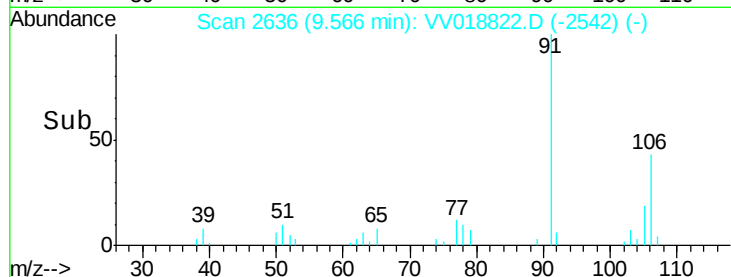
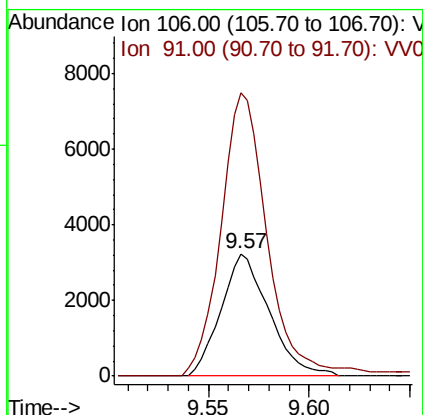
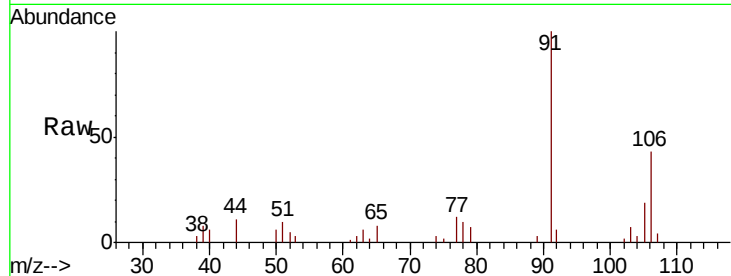




#54
o-xylene
Concen: 1.867 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV018822.D
Acq: 09 Oct 2020 16:23

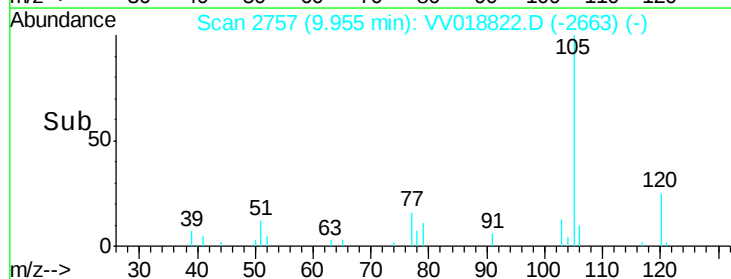
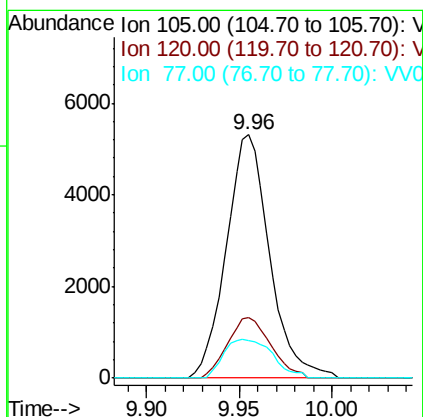
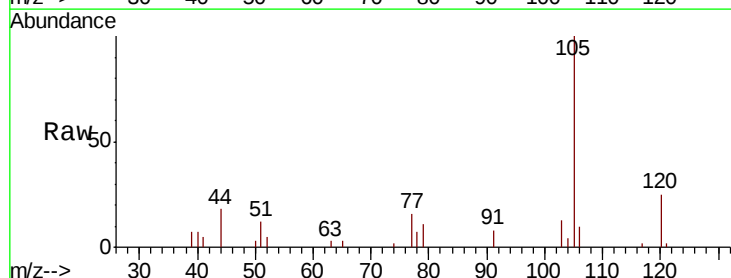
Instrument :
MSVOA_V
ClientSampleId :
BG3P8RE

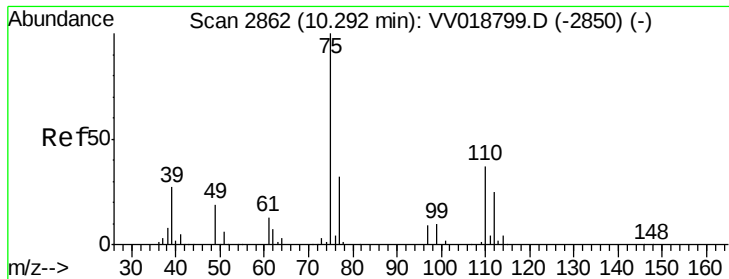
Tot Ion:106 Resp: 5385
Ion Ratio Lower Upper
106 100
91 231.7 156.8 291.2



#56
Isopropylbenzene
Concen: 1.079 ug/L
RT: 9.96 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV018822.D
Acq: 09 Oct 2020 16:23

Tgt Ion:105 Resp: 8608
Ion Ratio Lower Upper
105 100
120 25.0 20.4 30.6
77 18.0 13.0 19.6





#59

1,2,3-Trichloropropane

Concen: 5.865 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Instrument :

MSVOA_V

ClientSampleId :

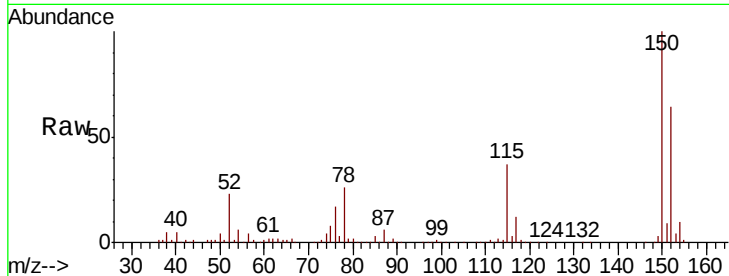
BG3P8RE

Tot Ion: 75 Resp: 13597

Ion Ratio Lower Upper

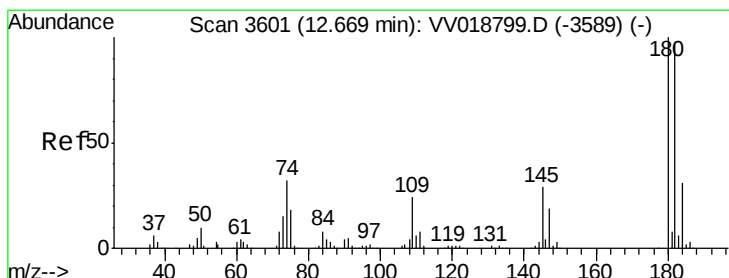
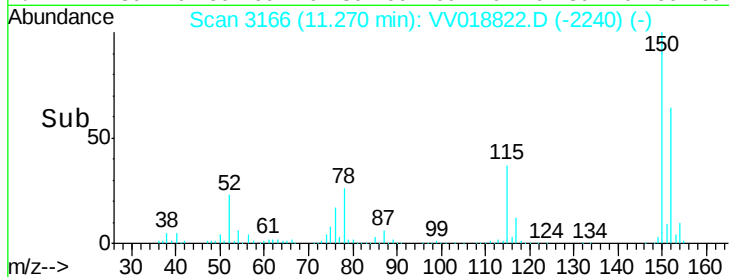
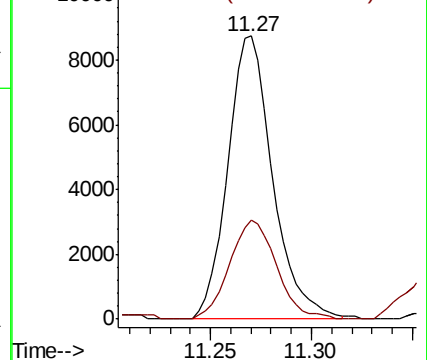
75 100

77 36.2 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#67

1,3,5-Trichlorobenzene

Concen: 1.568 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.62 min

Lab File: VV018822.D

Acq: 09 Oct 2020 16:23

Tgt Ion: 180 Resp: 3779

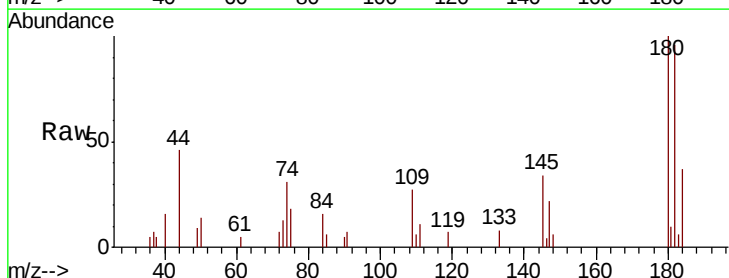
Ion Ratio Lower Upper

180 100

182 96.2 77.0 115.6

184 31.0 24.6 37.0

145 31.6 23.4 35.0

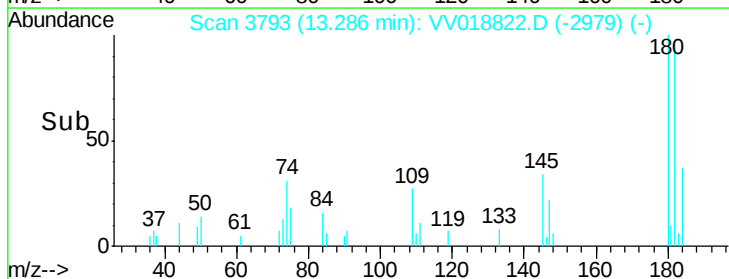
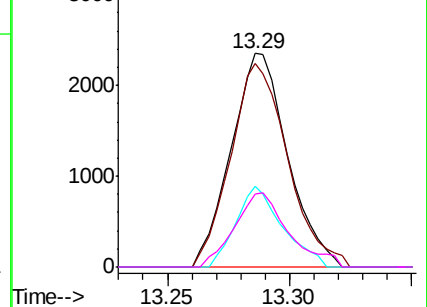


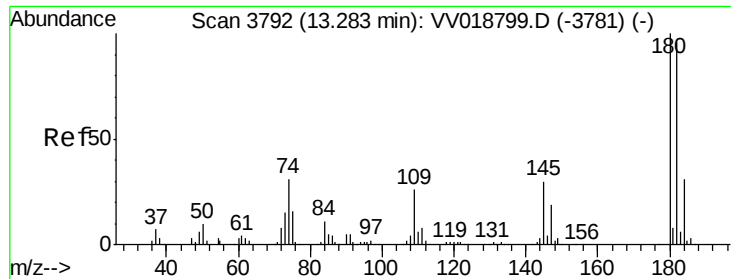
Abundance Ion 180.00 (179.70 to 180.70): V

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

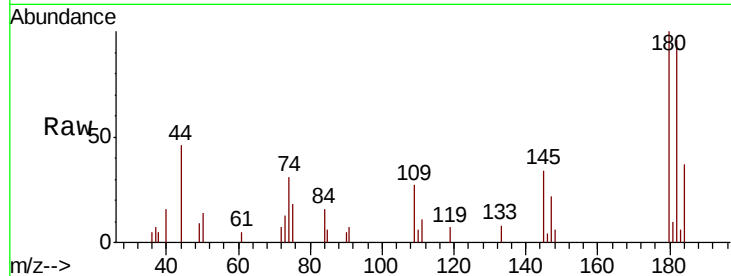




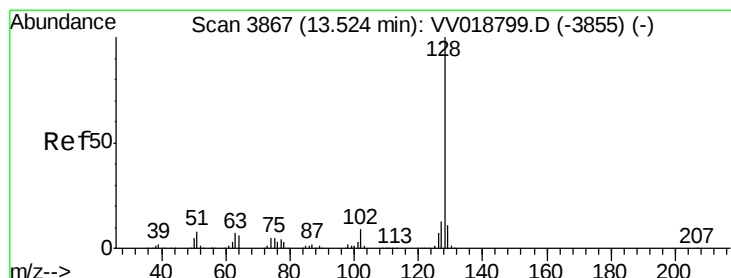
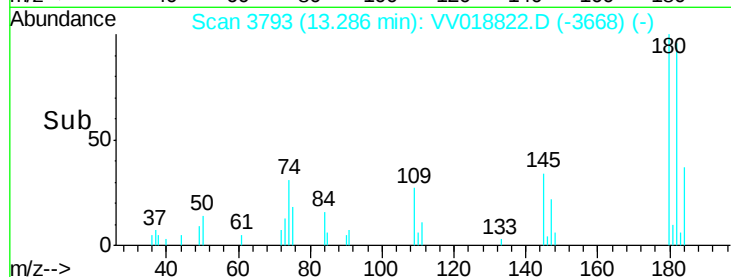
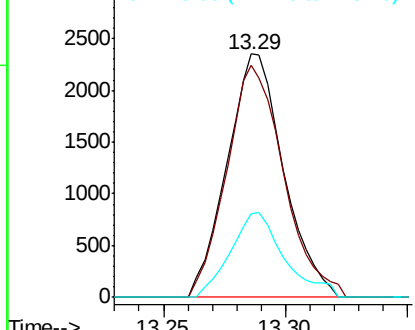
#68
 1,2,4-trichlorobenzene
 Concen: 1.667 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV018822.D
 Acq: 09 Oct 2020 16:23

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3P8RE

Tot Ion:180 Resp: 3779
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.7 115.1
 145 31.6 24.0 36.0

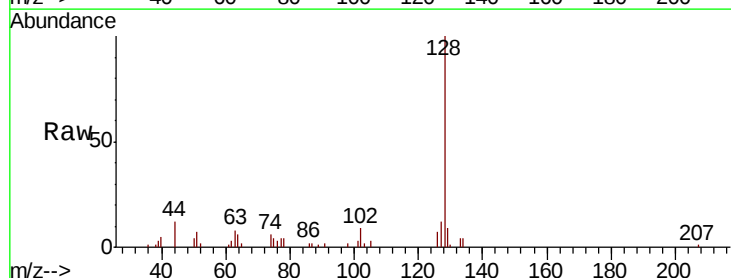


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#69
 Naphthalene
 Concen: 2.159 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.01 min
 Lab File: VV018822.D
 Acq: 09 Oct 2020 16:23

Tgt Ion:128 Resp: 13788
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.4 15.6
 129 10.1 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

