

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092520\
 Data File : VV018450.D
 Acq On : 25 Sep 2020 13:11
 Operator : SY/MD
 Sample : L4109-12
 Misc : 6.17g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X2ME

Quant Time: Sep 25 23:45:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM090920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 23:36:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	432072	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	417931	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	218272	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	104289	29.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	59.24%#
7) Chloroethane-d5	1.58	69	90797	31.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	63.02%#
11) 1,1-Dichloroethene-d2	2.10	63	159262	24.66	ug/L	-0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	49.32%#
21) 2-Butanone-d5	3.93	46	170413	79.07	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.07%
24) Chloroform-d	4.37	84	236437	38.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.40%
26) 1,2-Dichloroethane-d4	5.05	65	157654	40.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.52%
32) Benzene-d6	5.07	84	497255	41.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.12%
36) 1,2-Dichloropropane-d6	6.09	67	163618	43.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.08%
41) Toluene-d8	7.34	98	464111	42.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.12%
43) trans-1,3-Dichloropropene-	7.64	79	81658	42.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.54%
47) 2-Hexanone-d5	8.14	63	146169	101.51	ug/L	0.04
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.51%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	218161	45.72	ug/L	0.01
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.44%
64) 1,2-Dichlorobenzene-d4	11.65	152	205097	45.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
29) Cyclohexane	4.70	56	83684	17.340	ug/L	97
30) 1,1,1-Trichloroethane	4.63	97	7787	1.605	ug/L	98
35) Methylcyclohexane	6.09	83	38493	7.854	ug/L #	18
37) 1,2-Dichloropropane	6.09	63	17221	5.439	ug/L #	91
39) cis-1,3-Dichloropropene	7.01	75	4415	0.905	ug/L #	66
40) 4-Methyl-2-pentanone	7.28	43	25187	6.557	ug/L #	76
42) Toluene	7.41	91	500460	39.576	ug/L	99
45) 1,1,2-Trichloroethane	7.81	97	5433	1.851	ug/L #	21
46) Tetrachloroethene	8.00	164	11840	4.639	ug/L	97
48) 2-Hexanone	8.11	43	9986	3.297	ug/L #	42
49) Dibromochloromethane	8.00	129	10565	3.207	ug/L #	10
52) Ethylbenzene	9.04	91	256690	18.593	ug/L	99
53) m,p-Xylene	9.16	106	412663	80.082	ug/L	97
54) o-xylene	9.57	106	174646	35.180	ug/L	99
55) Styrene	9.57	104	8896	1.031	ug/L #	1
56) Isopropylbenzene	9.95	105	330773	24.723	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	6910	1.592	ug/L #	68

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QLast Update : Fri Sep 25 23:36:18 2020
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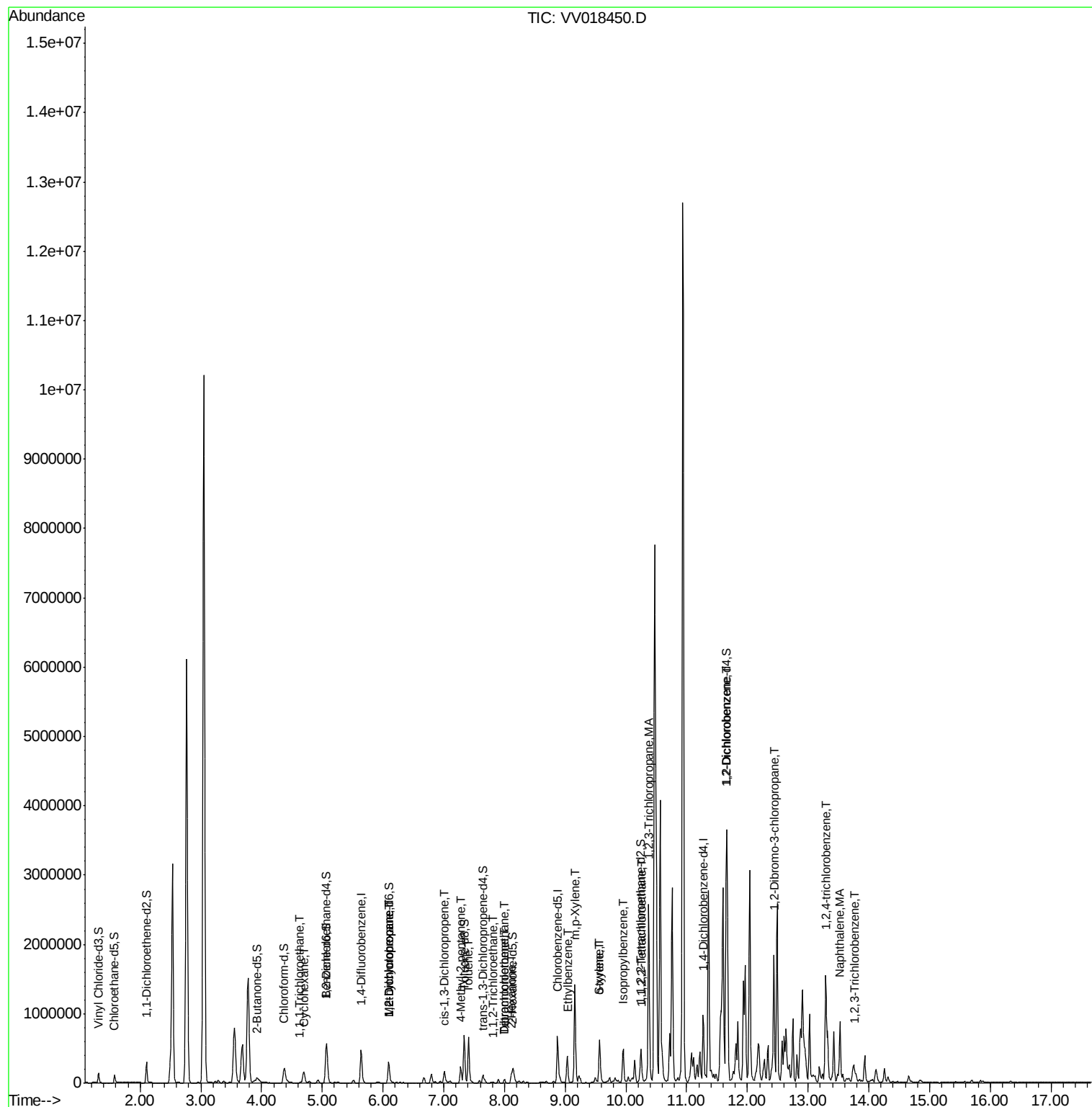
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	10.38	75	12012	3.225	ug/L #	1
65) 1,2-Dichlorobenzene	11.67	146	11671	1.779	ug/L #	81
66) 1,2-Dibromo-3-chloropropan	12.43	75	6994	7.555	ug/L #	1
68) 1,2,4-trichlorobenzene	13.29	180	97973	21.502	ug/L	97
69) Naphthalene	13.53	128	645511	55.988	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	27150	6.050	ug/L #	94

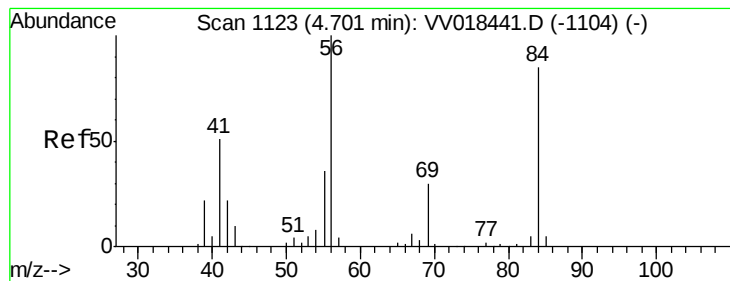
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV092520\
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Response via : Initial Calibration





#29

Cyclohexane

Concen: 17.340 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

BG3X2ME

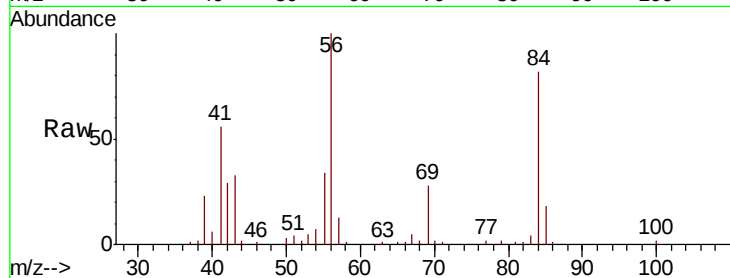
Tot Ion: 56 Resp: 83684

Ion Ratio Lower Upper

56 100

69 28.6 24.2 36.2

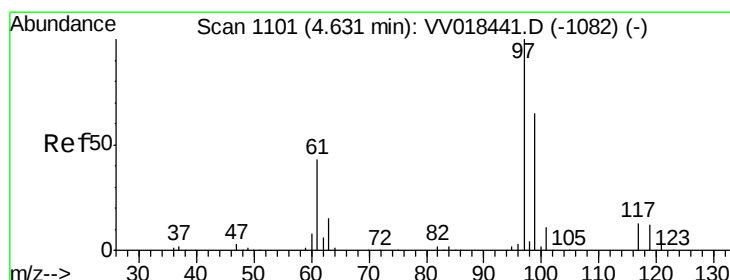
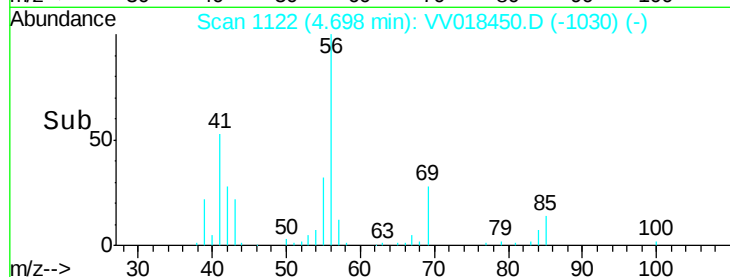
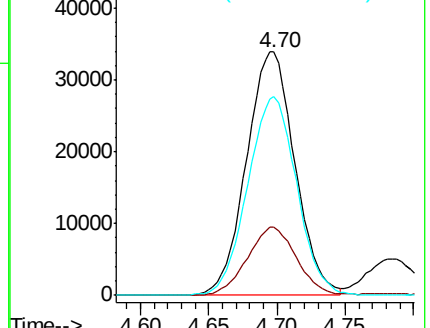
84 82.6 68.3 102.5



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: 1.605 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

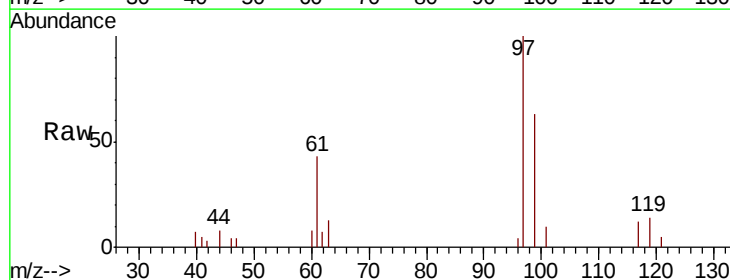
Tgt Ion: 97 Resp: 7787

Ion Ratio Lower Upper

97 100

99 62.2 51.6 77.4

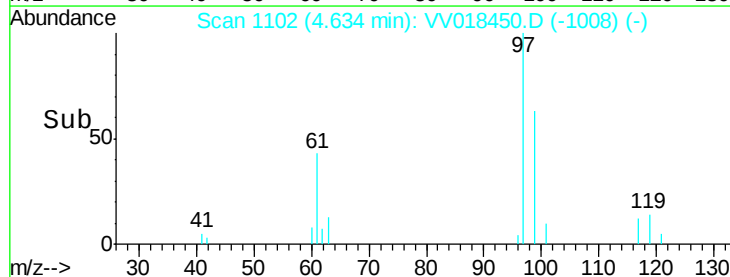
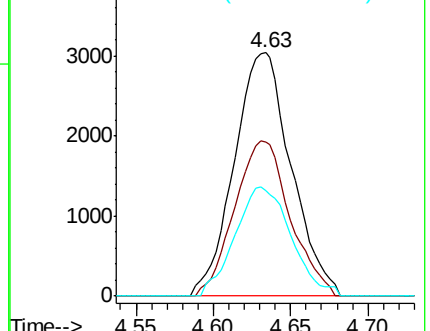
61 43.9 34.9 52.3

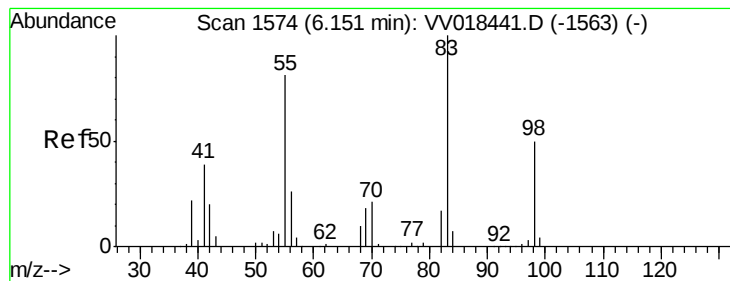


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#35

Methvlcvclohexane

Concen: 7.854 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

BG3X2ME

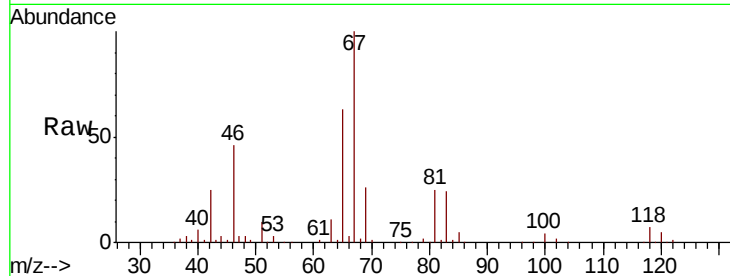
Tot Ion: 83 Resp: 38493

Ion Ratio Lower Upper

83 100

55 0.4 63.4 95.2#

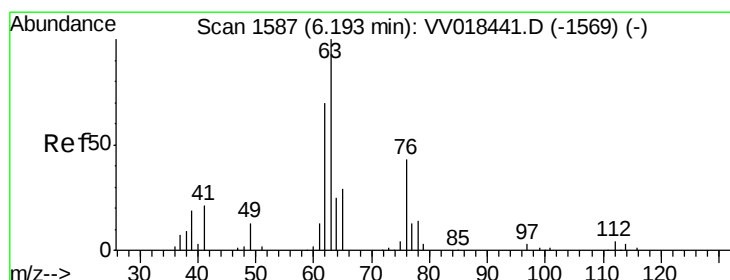
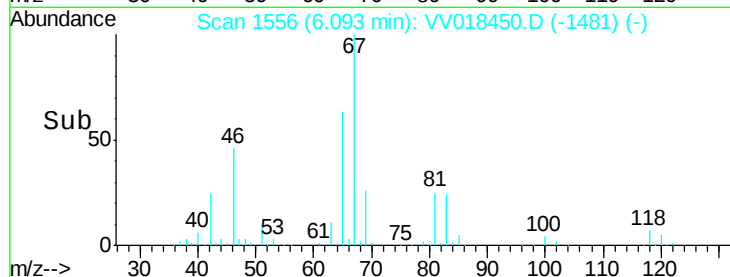
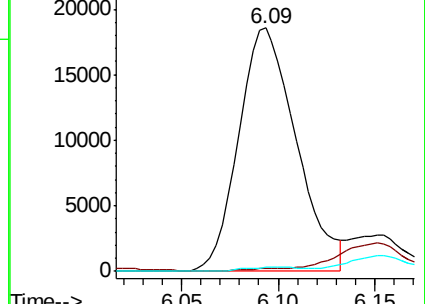
98 1.7 38.8 58.2#



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#37

1,2-Dichloropropane

Concen: 5.439 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.10 min

Lab File: VV018450.D

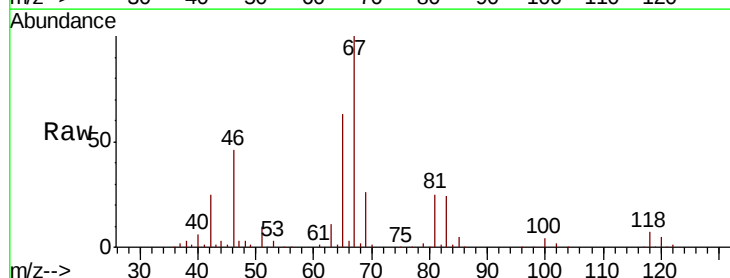
Acq: 25 Sep 2020 13:11

Tgt Ion: 63 Resp: 17221

Ion Ratio Lower Upper

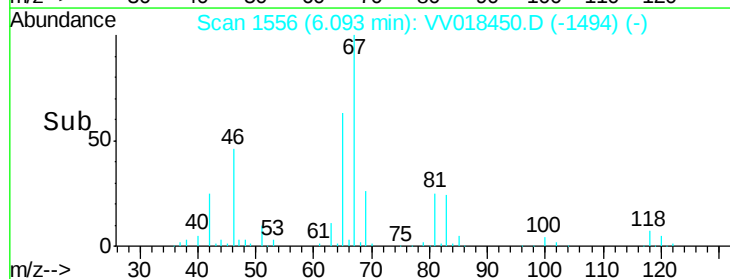
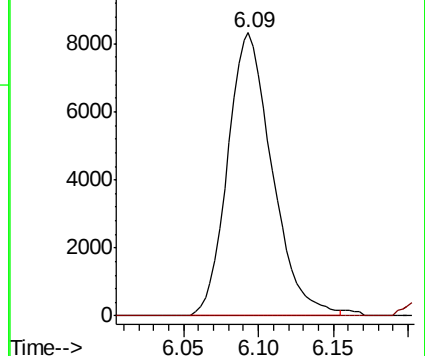
63 100

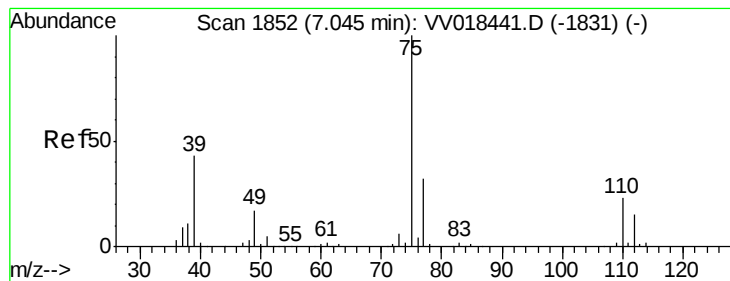
112 7.4 3.4 5.2#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



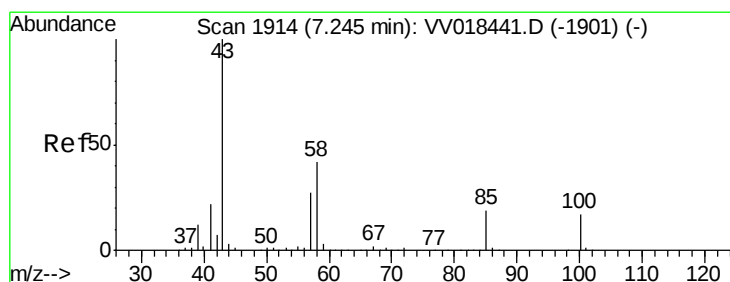
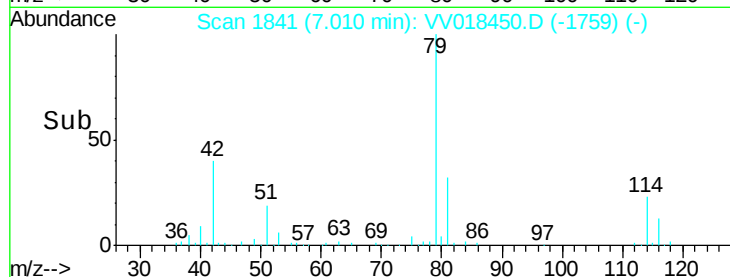
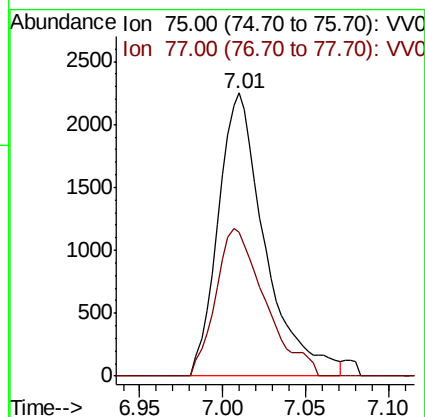
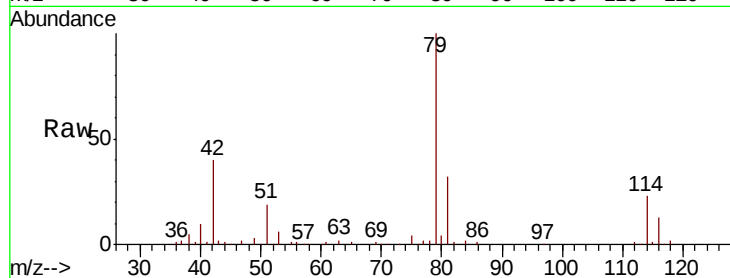


#39

cis-1,3-Dichloropropene
Concen: 0.905 ug/L
RT: 7.01 min Scan# 1841
Delta R.T. -0.04 min
Lab File: VV018450.D
Acq: 25 Sep 2020 13:11

Instrument :
MSVOA_V
ClientSampleId :
BG3X2ME

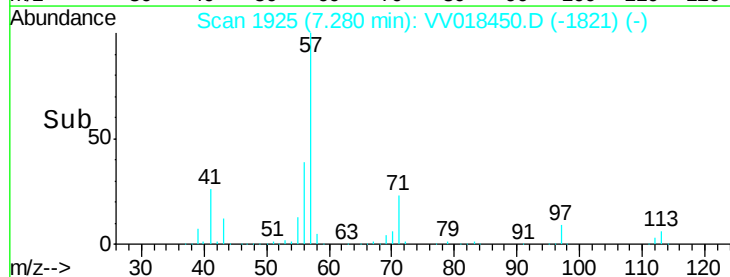
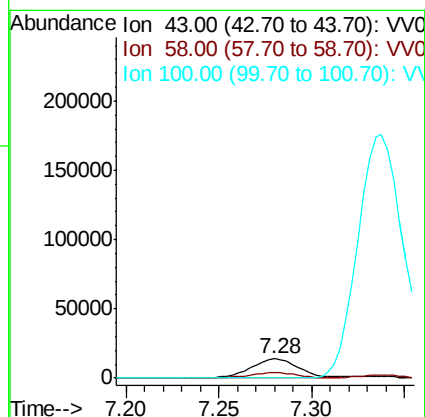
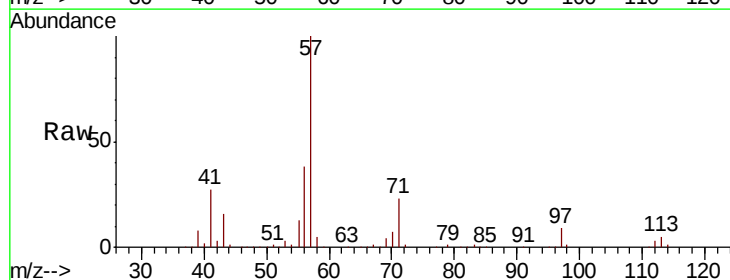
Tot Ion: 75 Resp: 4415
Ion Ratio Lower Upper
75 100
77 50.7 22.3 41.3#

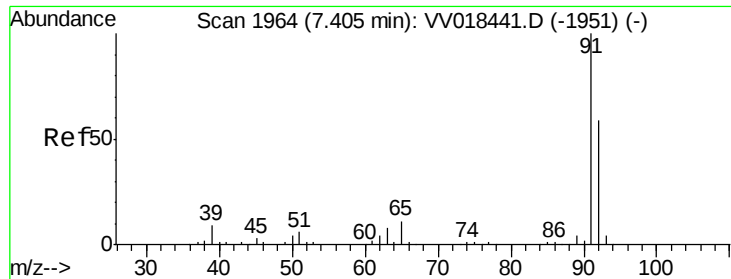


#40

4-Methyl-2-pentanone
Concen: 6.557 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.04 min
Lab File: VV018450.D
Acq: 25 Sep 2020 13:11

Tgt Ion: 43 Resp: 25187
Ion Ratio Lower Upper
43 100
58 29.0 32.4 48.6#
100 0.0 12.7 19.1#





#42

Toluene

Concen: 39.576 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

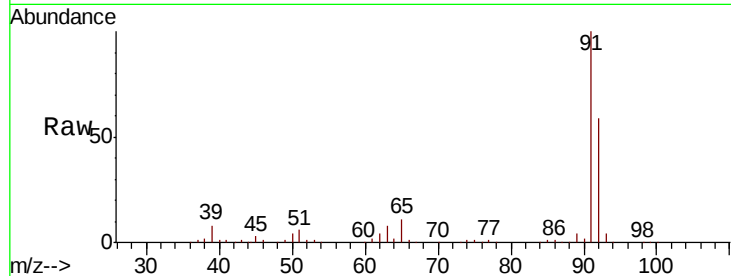
BG3X2ME

Tot Ion: 91 Resp: 500460

Ion Ratio Lower Upper

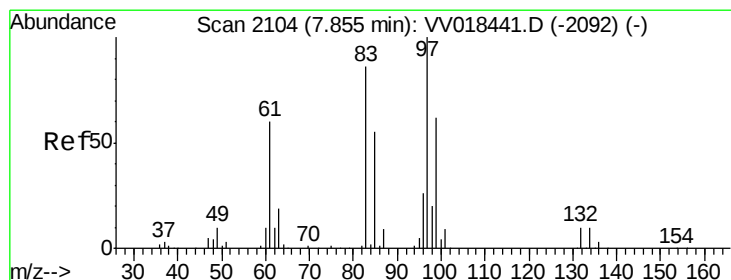
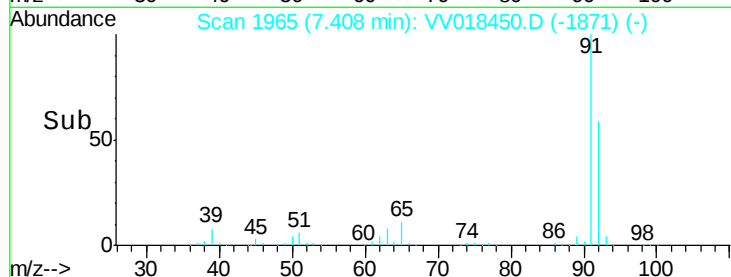
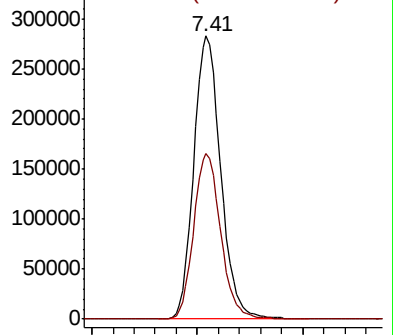
91 100

92 58.7 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

1,1,2-Trichloroethane

Concen: 1.851 ug/L

RT: 7.81 min Scan# 2089

Delta R.T. -0.05 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Tgt Ion: 97 Resp: 5433

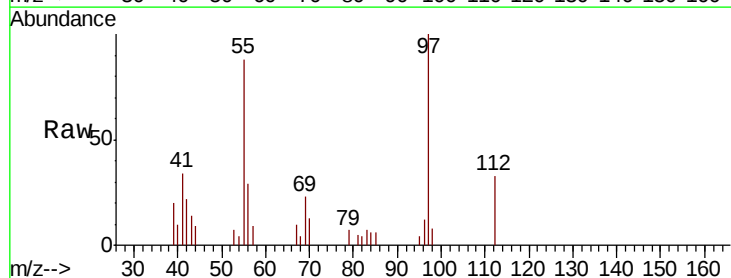
Ion Ratio Lower Upper

97 100

99 0.0 43.7 81.1#

83 7.3 59.9 111.3#

85 5.6 37.6 69.8#

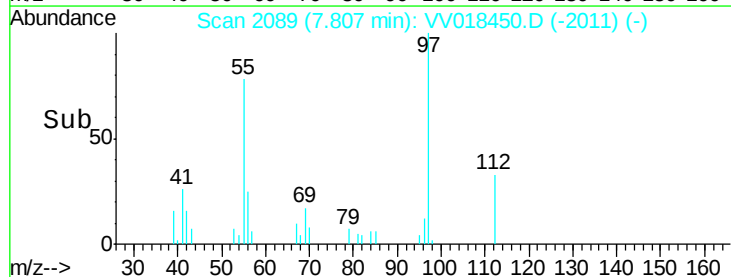
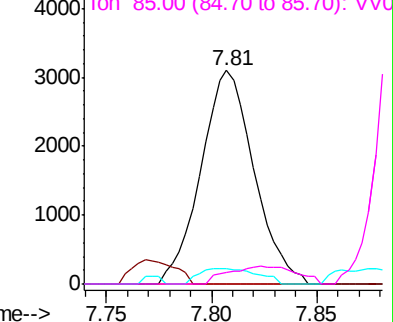


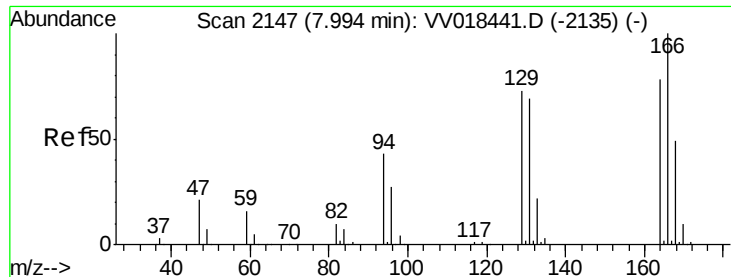
Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#46

Tetrachloroethene

Concen: 4.639 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

BG3X2ME

Tot Ion:164 Resp: 11840

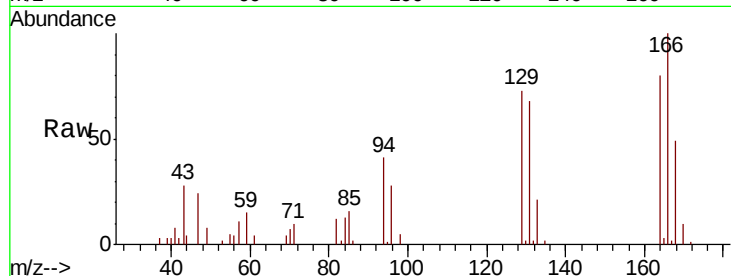
Ion Ratio Lower Upper

164 100

129 90.8 64.5 119.7

131 85.0 61.8 114.8

166 124.5 90.6 168.2

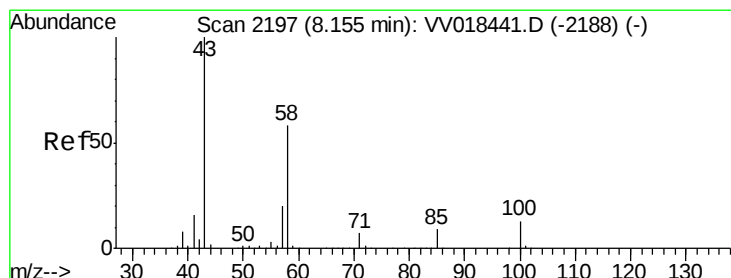
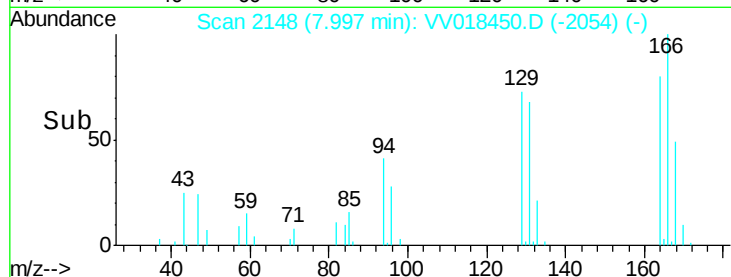
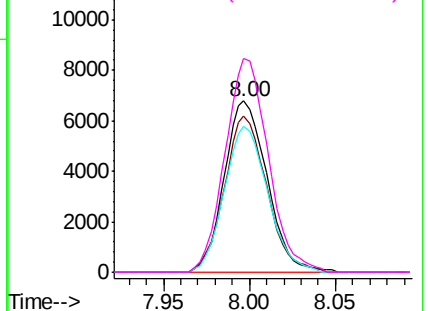


Abundance Ion 164.00 (163.70 to 164.70): V

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: 3.297 ug/L

RT: 8.11 min Scan# 2182

Delta R.T. -0.05 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Tgt Ion: 43 Resp: 9986

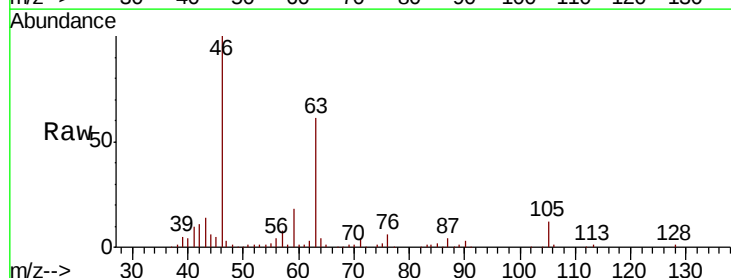
Ion Ratio Lower Upper

43 100

58 18.9 44.8 67.2#

57 63.7 15.8 23.6#

100 0.0 10.2 15.4#

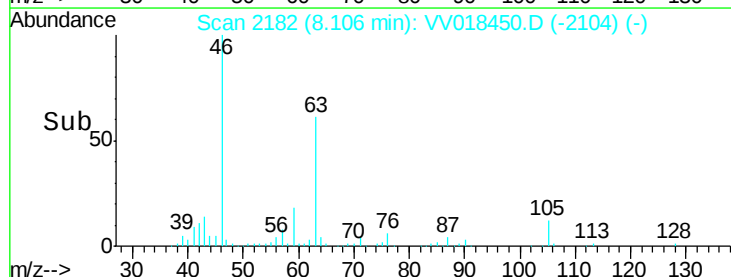
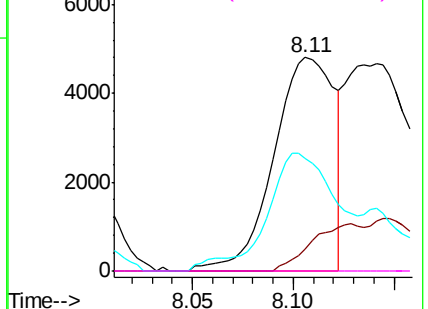


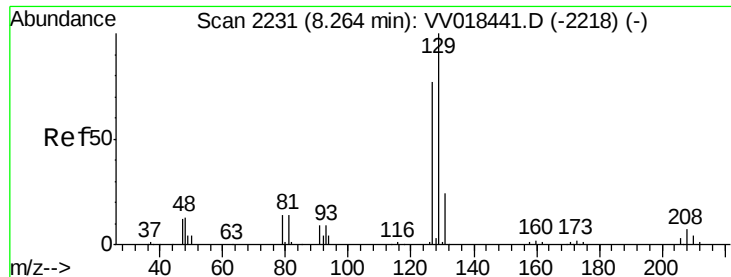
Abundance Ion 43.00 (42.70 to 43.70): VV0

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: 3.207 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

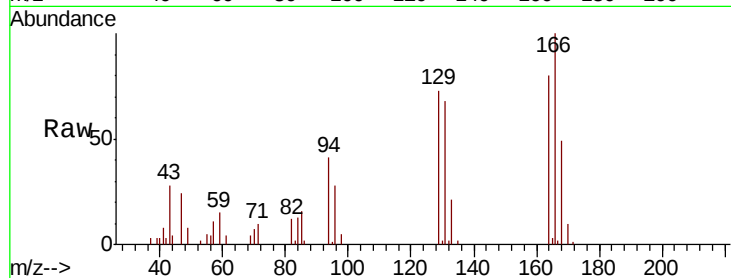
BG3X2ME

Tot Ion:129 Resp: 10565

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

6000

8.00

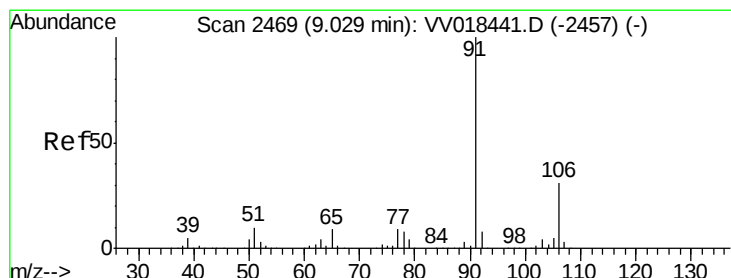
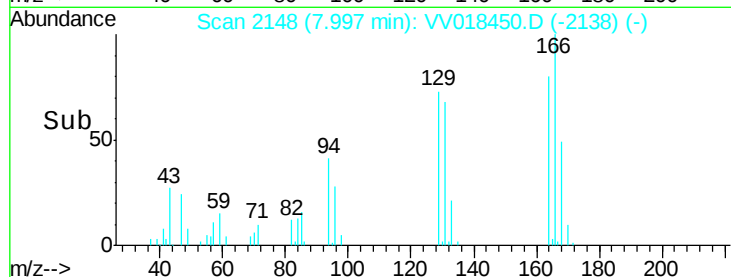
4000

2000

0

7.95 8.00 8.05

Time-->



#52

Ethylbenzene

Concen: 18.593 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.01 min

Lab File: VV018450.D

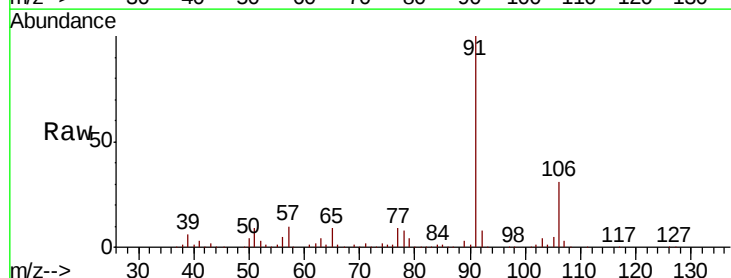
Acq: 25 Sep 2020 13:11

Tgt Ion: 91 Resp: 256690

Ion Ratio Lower Upper

91 100

106 30.7 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V

600000

9.04

500000

400000

300000

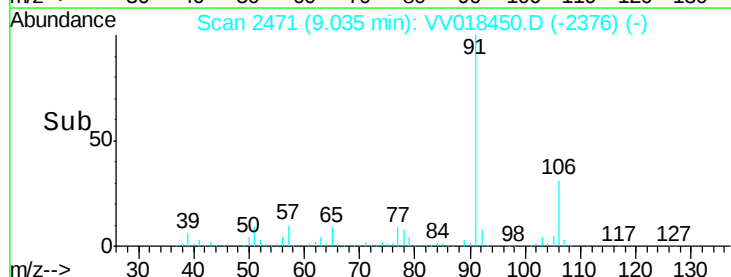
200000

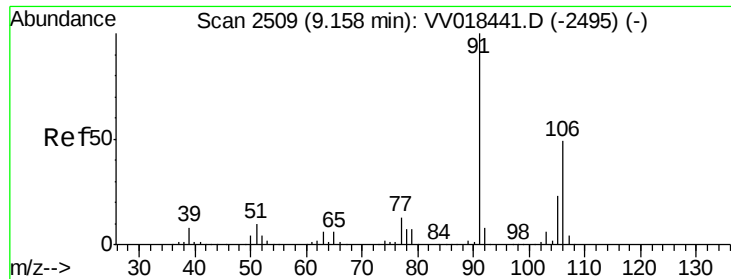
100000

0

8.95 9.00 9.05 9.10 9.15

Time-->

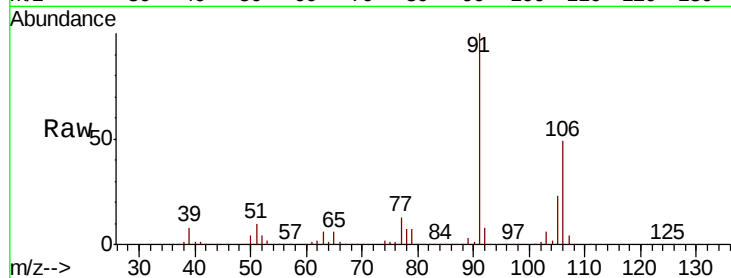




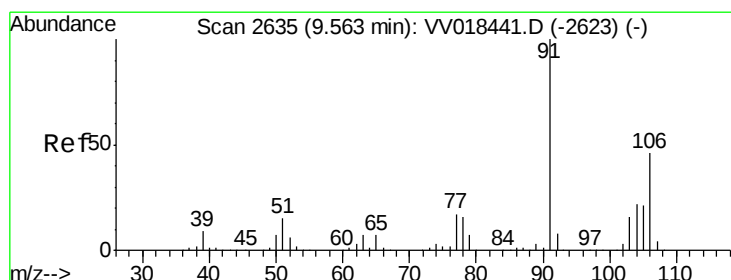
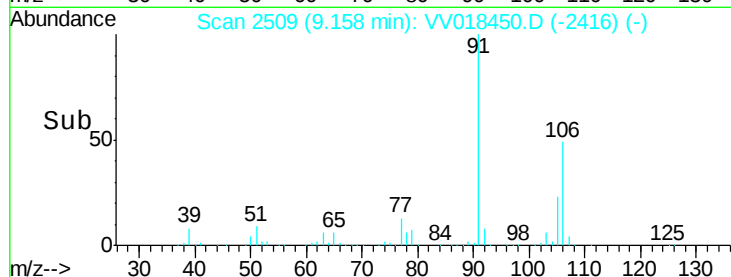
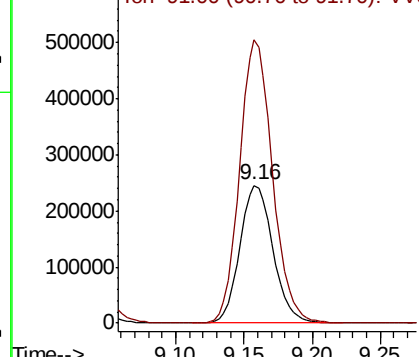
#53
m,p-Xylene
Concen: 80.082 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VV018450.D
Acq: 25 Sep 2020 13:11

Instrument :
MSVOA_V
ClientSampleId :
BG3X2ME

Tot Ion:106 Resp: 412663
Ion Ratio Lower Upper
106 100
91 205.5 146.7 272.5

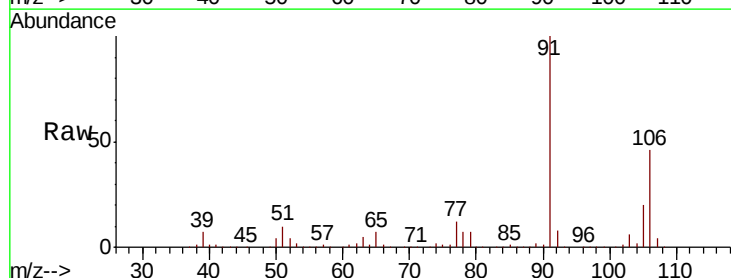


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

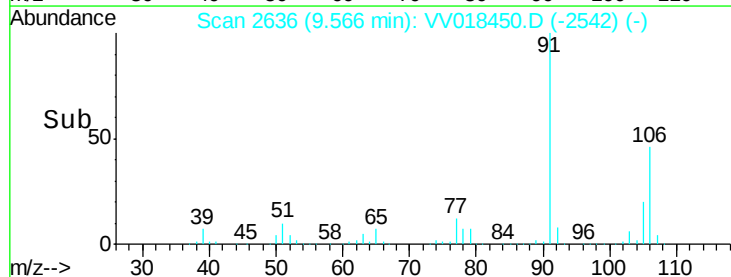
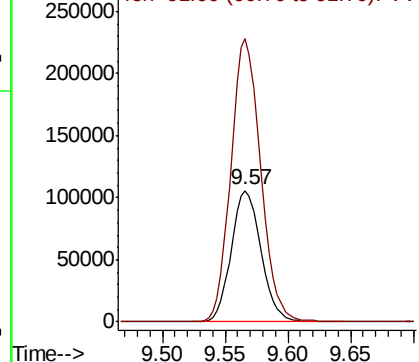


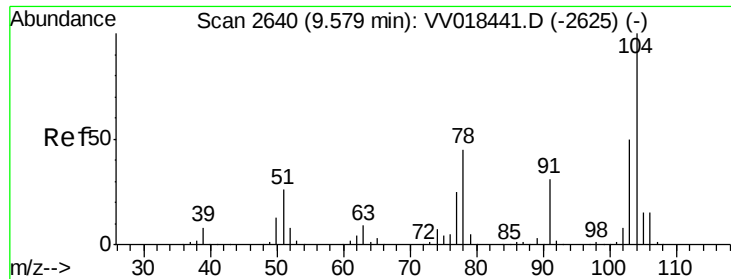
#54
o-xylene
Concen: 35.180 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV018450.D
Acq: 25 Sep 2020 13:11

Tgt Ion:106 Resp: 174646
Ion Ratio Lower Upper
106 100
91 215.2 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 1.031 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.01 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

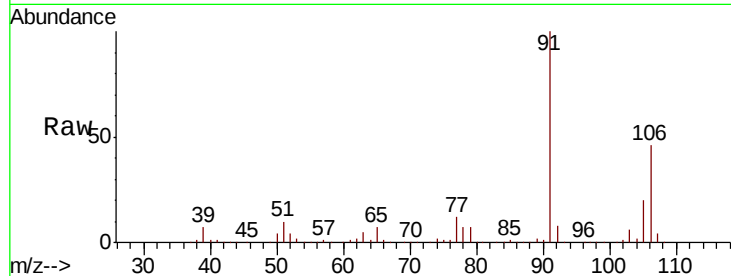
BG3X2ME

Tot Ion:104 Resp: 8896

Ion Ratio Lower Upper

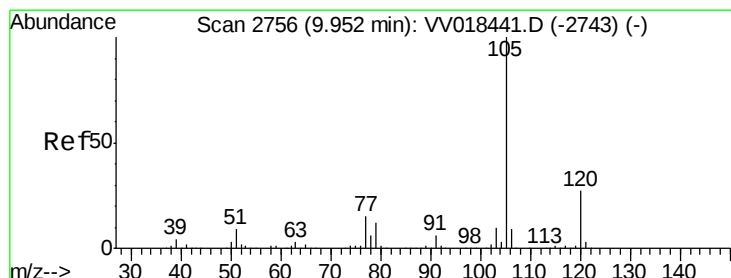
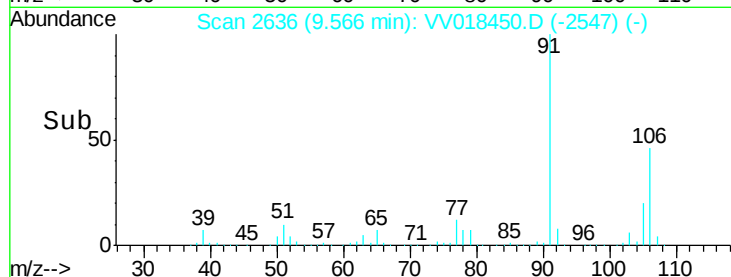
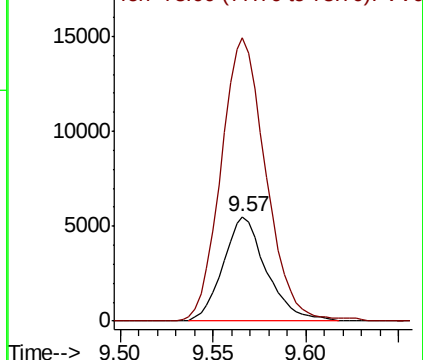
104 100

78 271.2 31.4 58.2#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 24.723 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

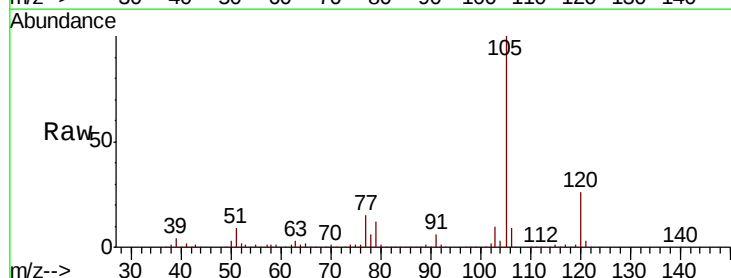
Tgt Ion:105 Resp: 330773

Ion Ratio Lower Upper

105 100

120 26.3 20.9 31.3

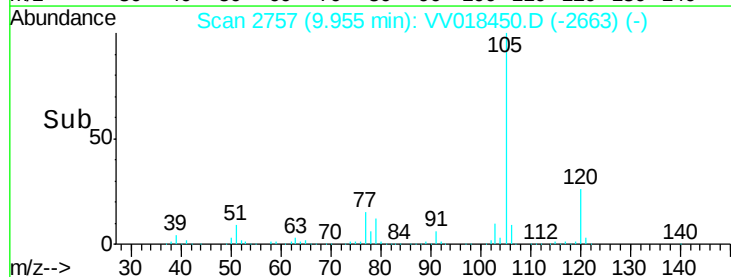
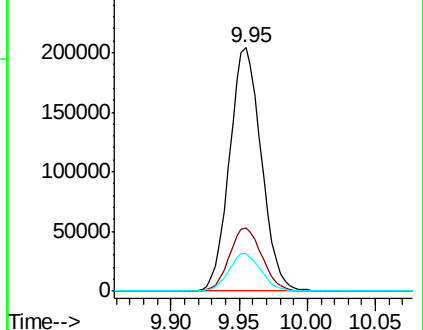
77 15.6 12.5 18.7

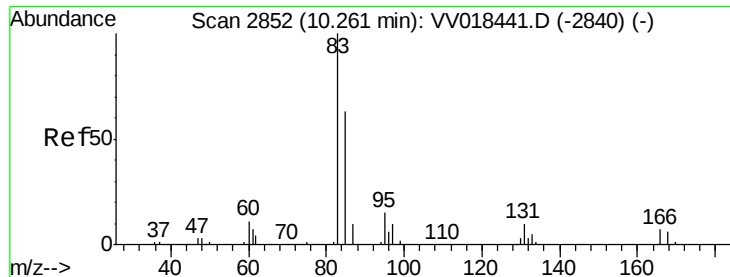


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 1.592 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

BG3X2ME

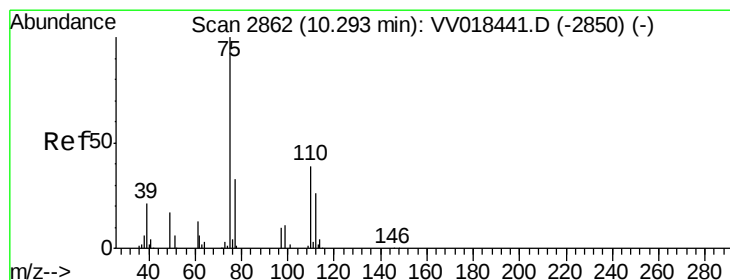
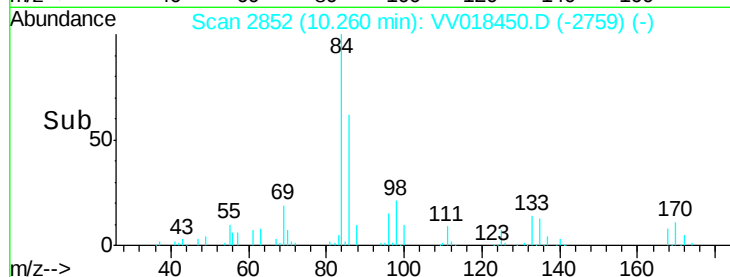
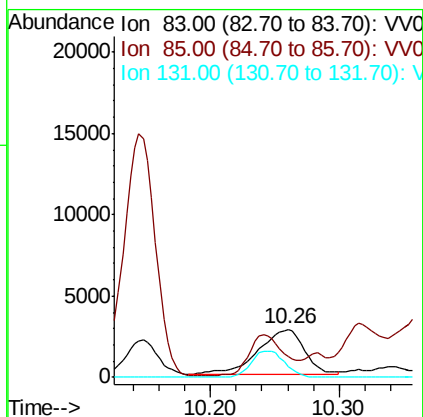
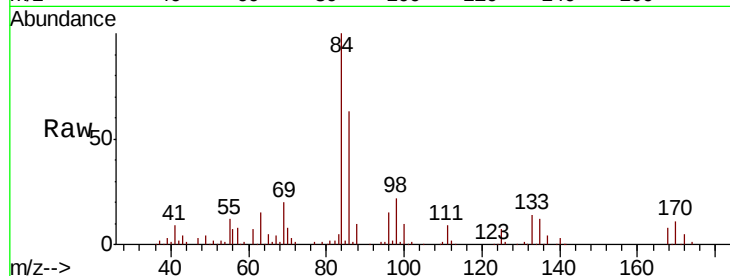
Tot Ion: 83 Resp: 6910

Ion Ratio Lower Upper

83 100

85 42.2 45.8 85.2#

131 27.7 8.0 12.0#



#59

1,2,3-Trichloropropane

Concen: 3.225 ug/L

RT: 10.38 min Scan# 2888

Delta R.T. 0.08 min

Lab File: VV018450.D

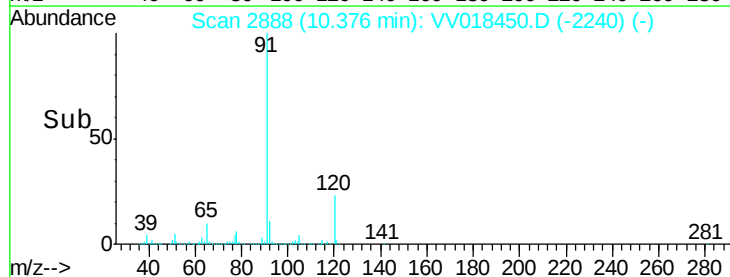
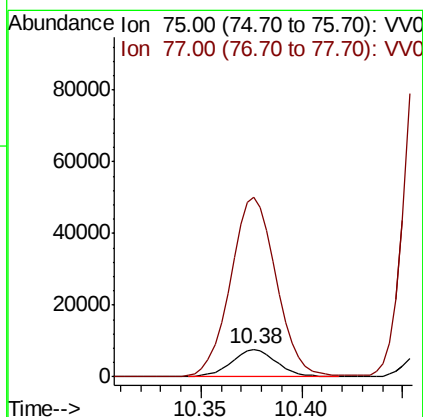
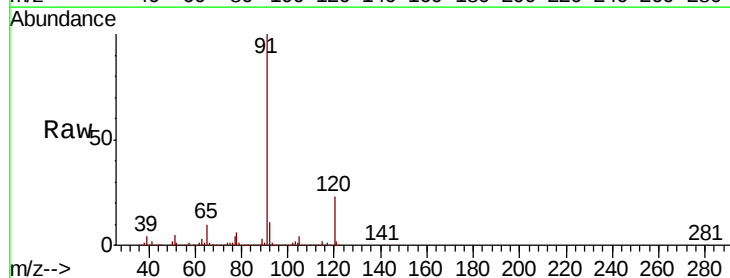
Acq: 25 Sep 2020 13:11

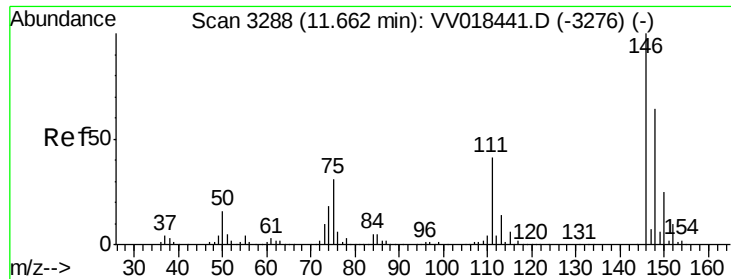
Tgt Ion: 75 Resp: 12012

Ion Ratio Lower Upper

75 100

77 658.8 25.8 38.6#





#65

1,2-Dichlorobenzene

Concen: 1.779 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.01 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

BG3X2ME

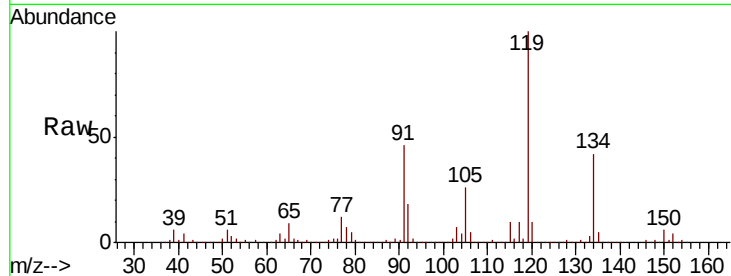
Tot Ion:146 Resp: 11671

Ion Ratio Lower Upper

146 100

111 66.9 32.8 49.2#

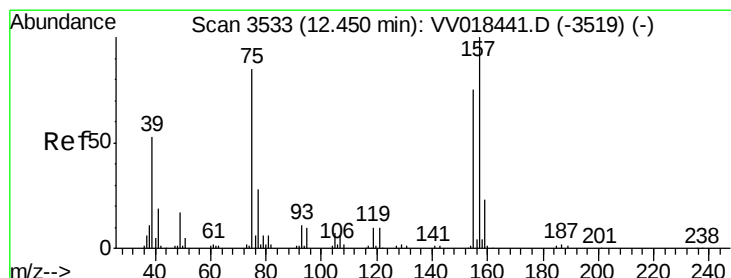
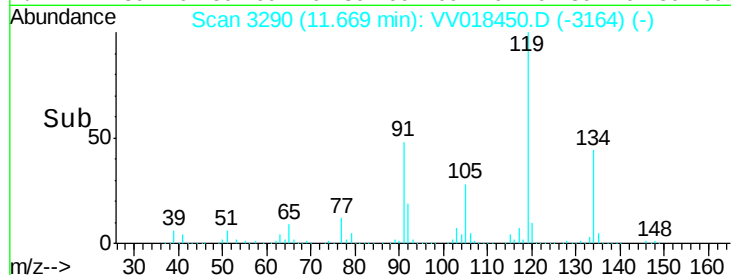
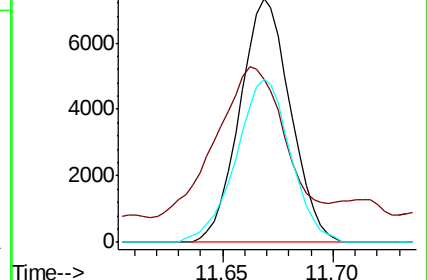
148 67.1 50.7 76.1



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



#66

1,2-Dibromo-3-chloropropane

Concen: 7.555 ug/L

RT: 12.43 min Scan# 3528

Delta R.T. -0.02 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

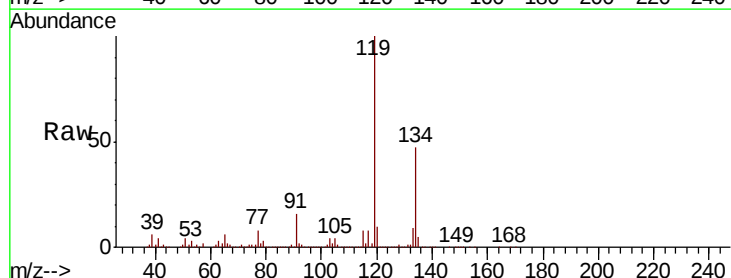
Tgt Ion: 75 Resp: 6994

Ion Ratio Lower Upper

75 100

155 2.5 69.7 104.5#

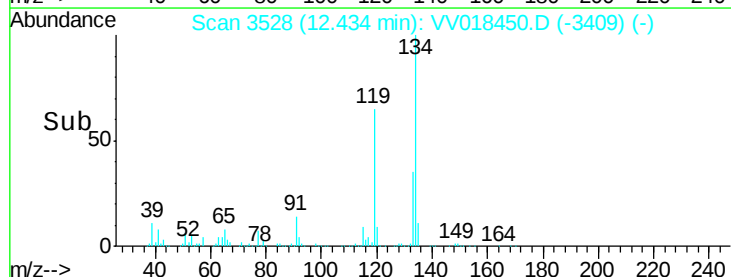
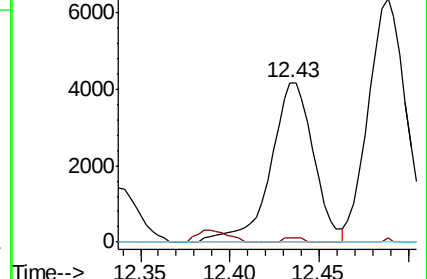
157 0.0 88.2 132.4#

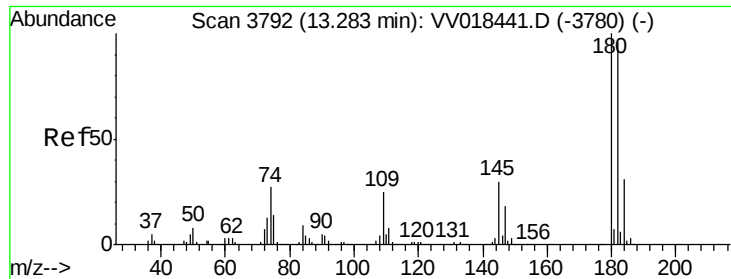


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#68

1,2,4-trichlorobenzene

Concen: 21.502 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

Instrument :

MSVOA_V

ClientSampleId :

BG3X2ME

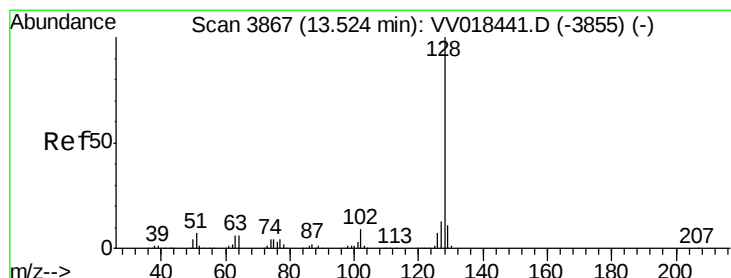
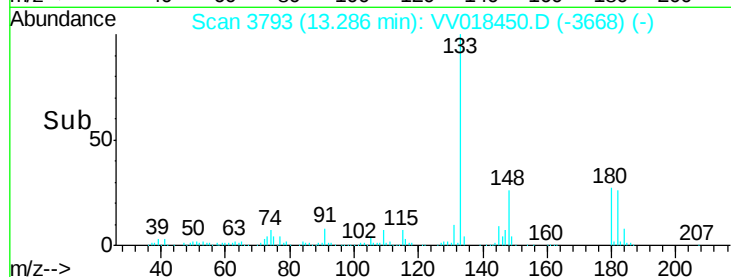
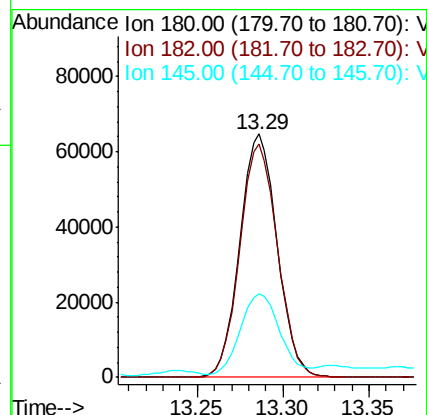
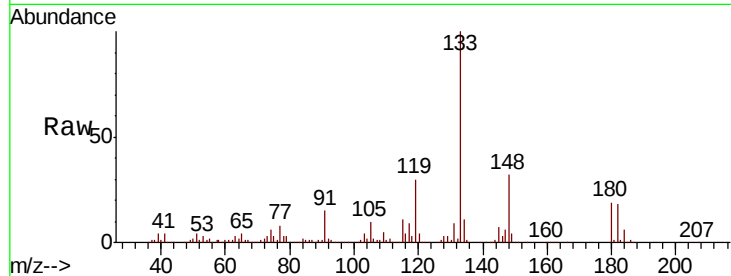
Tot Ion:180 Resp: 97973

Ion Ratio Lower Upper

180 100

182 96.7 77.4 116.2

145 34.8 23.2 34.8



#69

Naphthalene

Concen: 55.988 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV018450.D

Acq: 25 Sep 2020 13:11

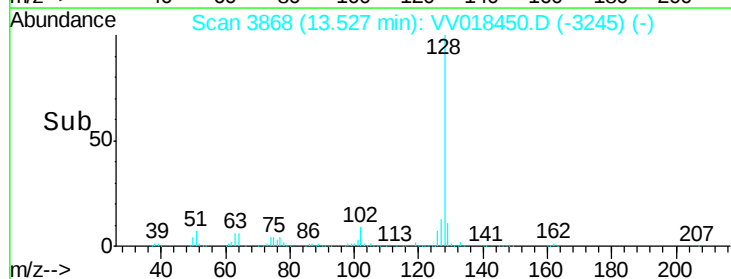
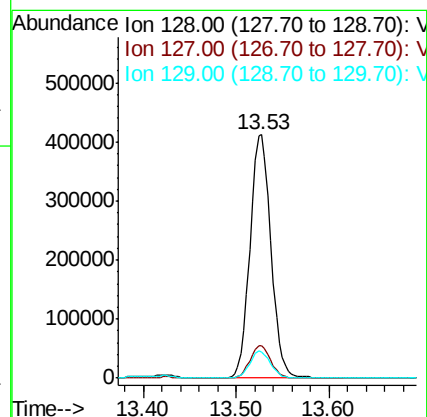
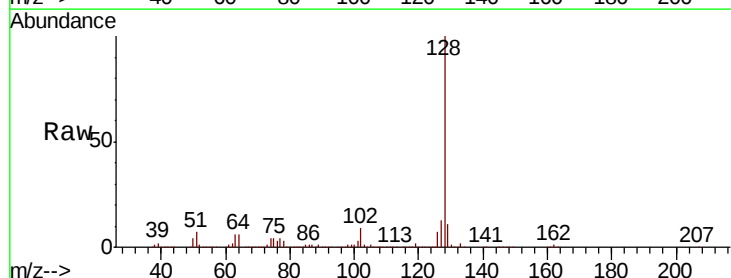
Tgt Ion:128 Resp: 645511

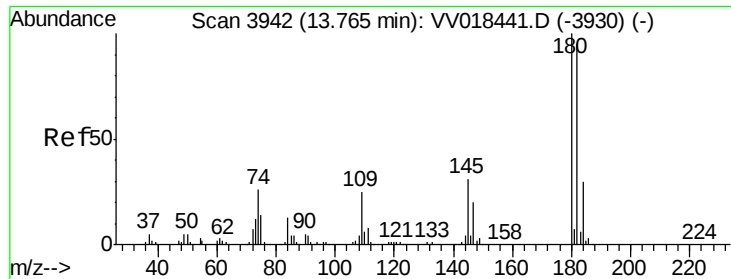
Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

129 11.0 8.6 13.0





#70
 1,2,3-Trichlorobenzene
 Concen: 6.050 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV018450.D
 Acq: 25 Sep 2020 13:11

Instrument :
 MSVOA_V
 ClientSampleId :
 BG3X2ME

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	93.0	76.5	114.7	
145	40.7	24.9	37.3	

