

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082319\
 Data File : VV012364.D
 Acq On : 23 Aug 2019 14:35
 Operator : SY/MD
 Sample : I.BLK
 Misc : 25mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK68

Quant Time: Aug 24 01:36:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 24 00:53:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	179172	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	173219	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	70142	5.00	ug/L	0.00

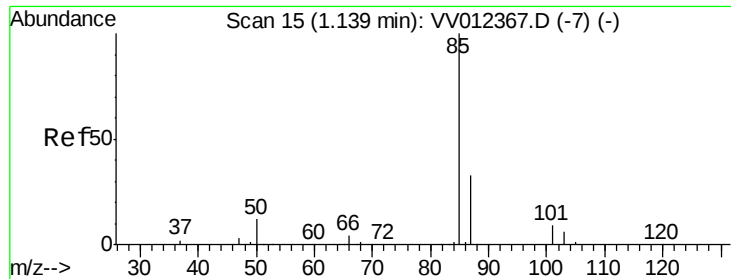
System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	50899	5.69	ug/L	0.00
7) Chloroethane-d5	1.58	69	35517	5.37	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	64884	4.08	ug/L	0.00
20) 2-Butanone-d5	3.94	46	115065	47.68	ug/L	-0.03
24) Chloroform-d	4.40	84	94983	4.61	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	59907	6.02	ug/L	0.00
32) Benzene-d6	5.10	84	217391	5.16	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	69105	5.41	ug/L	0.00
41) Toluene-d8	7.36	98	187421	4.96	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	24318	5.02	ug/L	0.00
46) 2-Hexanone-d5	8.13	63	82258	54.74	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	48400	5.71	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	67620	5.79	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	1647	0.108 ug/L	94
3) Chloromethane	1.25	50	1528	0.130 ug/L	98
5) Vinyl chloride	1.32	62	2183	0.191 ug/L #	16
9) Trichlorofluoromethane	1.77	101	1237	0.081 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1885	0.238 ug/L #	73
14) Carbon disulfide	2.32	76	7532	0.334 ug/L #	80
16) Methylene chloride	2.53	84	1630	0.204 ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	2268	0.212 ug/L #	73
22) cis-1,2-Dichloroethene	3.96	96	2765	0.237 ug/L	96
25) Chloroform	4.42	83	16846	0.760 ug/L	89
34) Trichloroethene	5.96	95	2009	0.169 ug/L	86
35) Methylcyclohexane	6.17	83	2542	0.136 ug/L	97
42) Toluene	7.44	91	3626	0.080 ug/L	96
47) Tetrachloroethene	8.02	164	1896	0.197 ug/L	94
51) Chlorobenzene	8.92	112	3361	0.114 ug/L	93
52) Ethylbenzene	9.05	91	5063	0.104 ug/L	96
53) m,p-xylene	9.19	106	2156	0.118 ug/L	91
55) Styrene	9.61	104	2460	0.085 ug/L	96
56) Isopropylbenzene	9.97	105	5147	0.111 ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	4372	0.230 ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	5337	0.280 ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	3795	0.217 ug/L	92
67) 1,3,5-Trichlorobenzene	12.70	180	4187	0.287 ug/L	97
68) 1,2,4-trichlorobenzene	13.32	180	3382	0.333 ug/L	92
69) Naphthalene	13.56	128	7465	0.531 ug/L	97
70) 1,2,3-Trichlorobenzene	13.80	180	3659	0.384 ug/L	90

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



#2

Dichlorodifluoromethane

Concen: 0.108 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

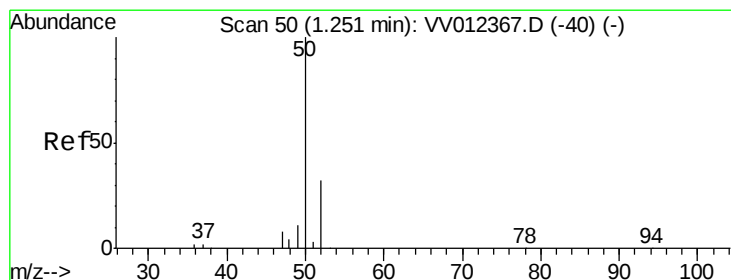
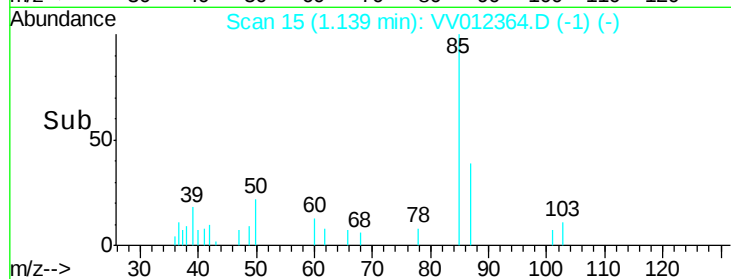
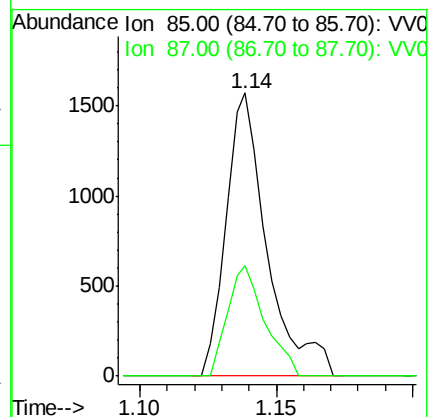
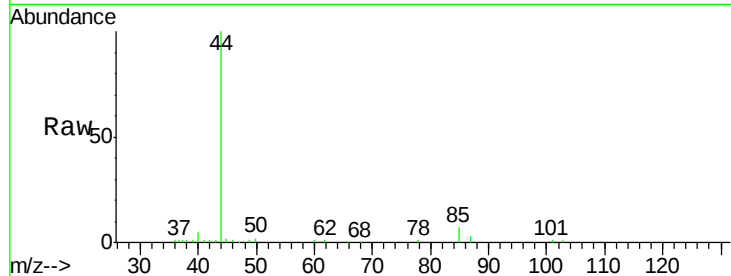
VBLK68

Tot Ion: 85 Resp: 1647

Ion Ratio Lower Upper

85 100

87 35.4 25.8 38.8



#3

Chloromethane

Concen: 0.130 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012364.D

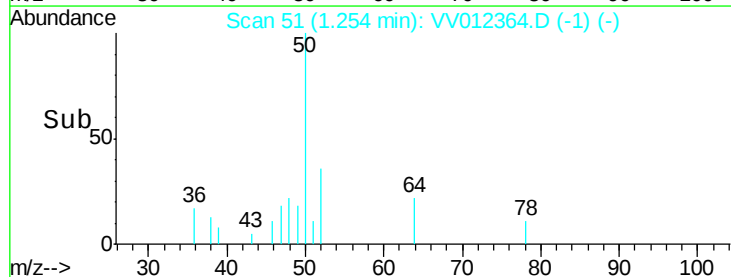
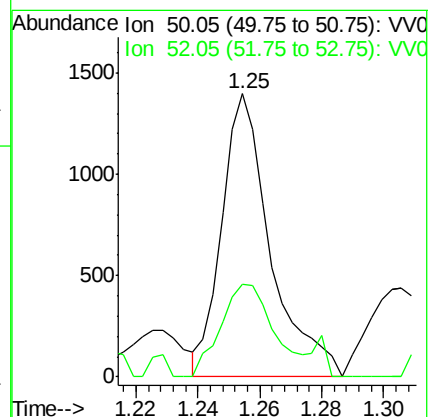
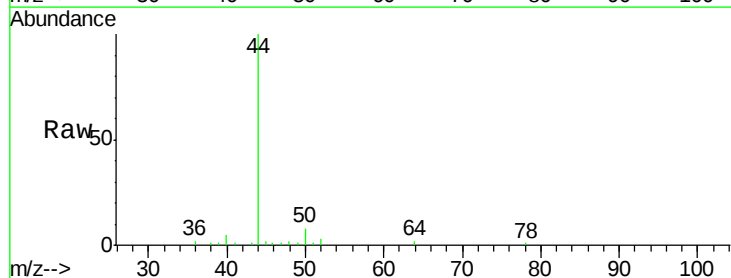
Acq: 23 Aug 2019 14:35

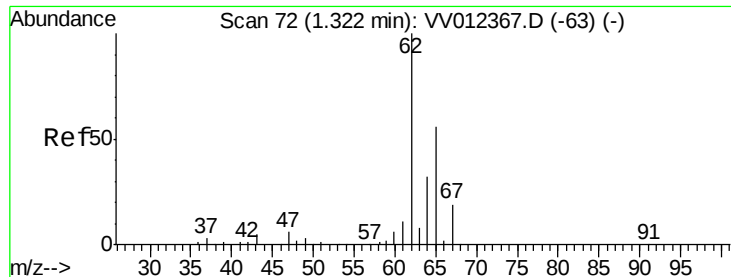
Tgt Ion: 50 Resp: 1528

Ion Ratio Lower Upper

50 100

52 32.9 22.2 41.2





#5

Vinyl chloride

Concen: 0.191 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

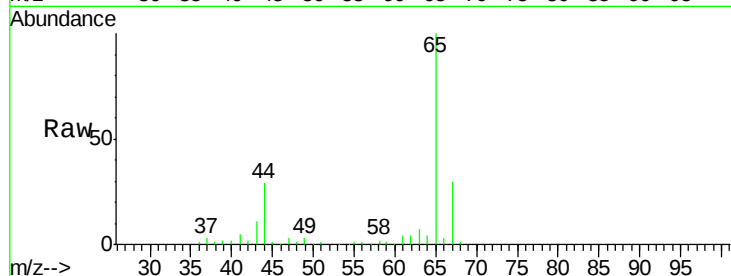
VBLK68

Tot Ion: 62 Resp: 2183

Ion Ratio Lower Upper

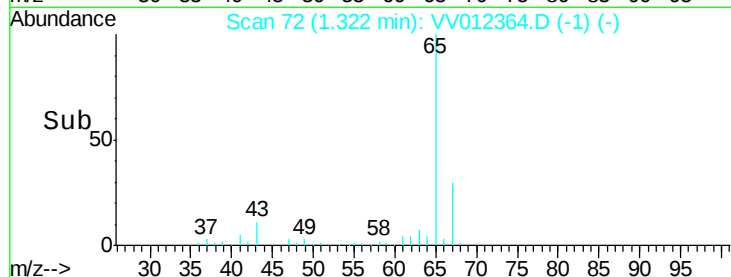
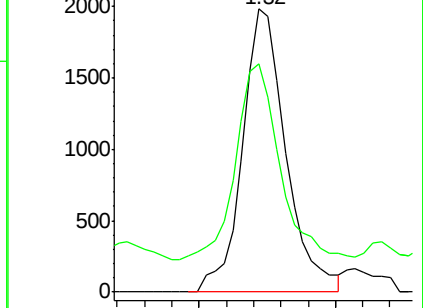
62 100

64 80.9 23.2 43.2#

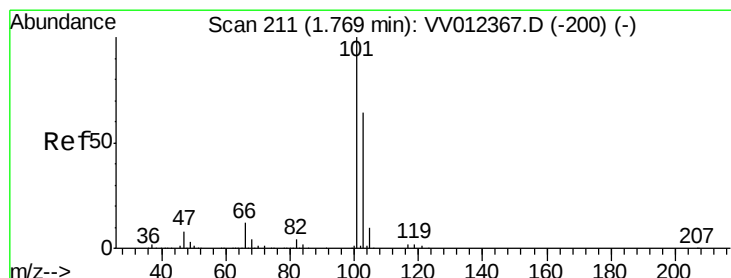


Abundance Ion 62.00 (61.70 to 62.70): VV012367.D (-63) (-)

Ion 64.10 (63.80 to 64.80): VV012364.D (-1) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 0.081 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012364.D

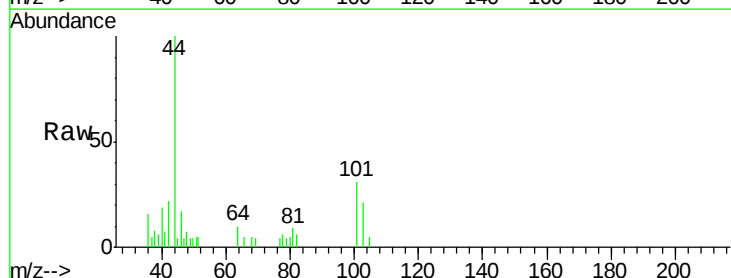
Acq: 23 Aug 2019 14:35

Tgt Ion: 101 Resp: 1237

Ion Ratio Lower Upper

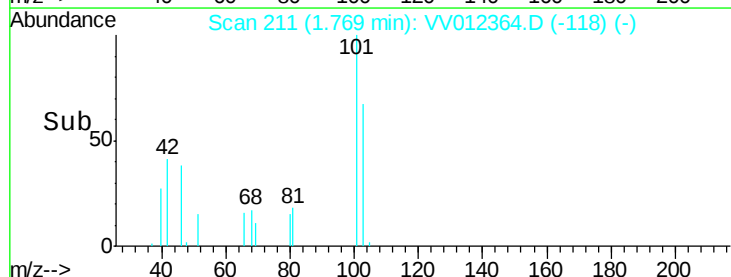
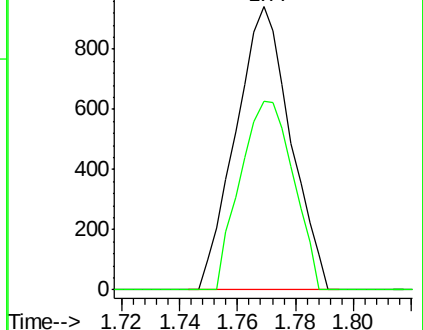
101 100

103 64.4 51.2 76.8

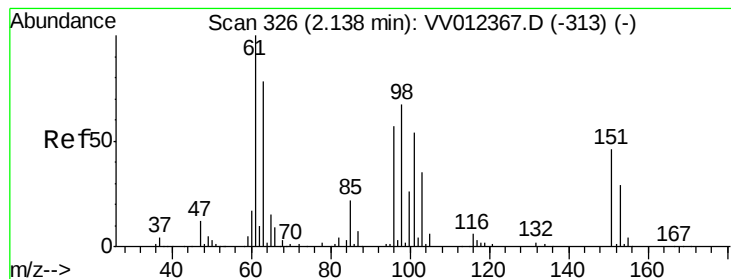


Abundance Ion 101.00 (100.70 to 101.70): VV012367.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012364.D (-118) (-)



Time-->



#10

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

Concen: 0.238 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

VBLK68

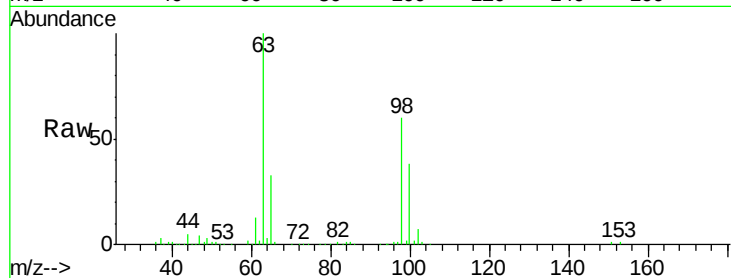
Tot Ion:101 Resp: 1885

Ion Ratio Lower Upper

101 100

85 34.7 34.6 51.8

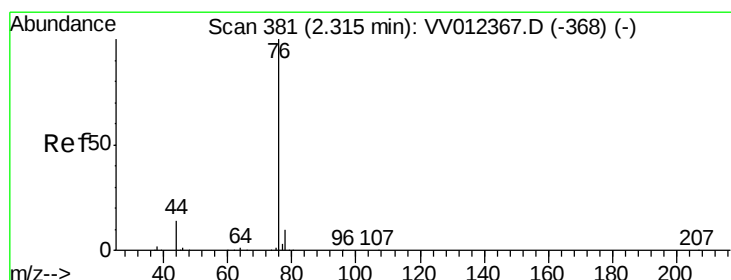
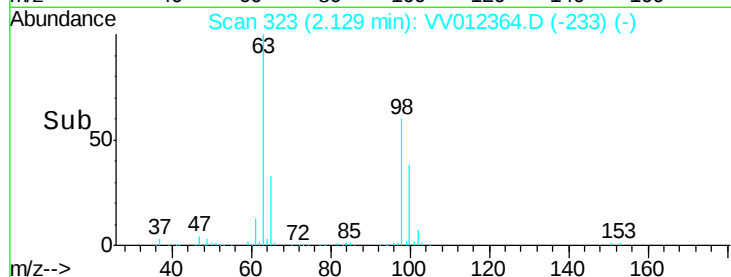
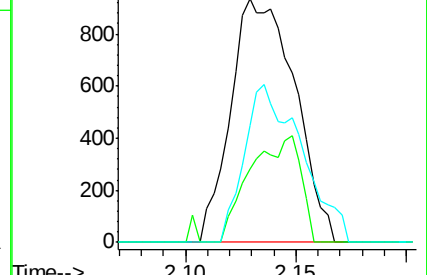
151 58.0 71.2 106.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#14

Carbon disulfide

Concen: 0.334 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012364.D

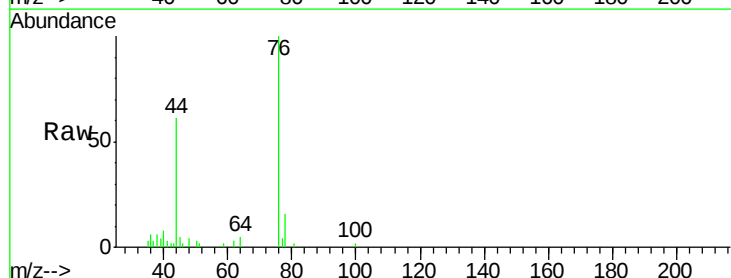
Acq: 23 Aug 2019 14:35

Tgt Ion: 76 Resp: 7532

Ion Ratio Lower Upper

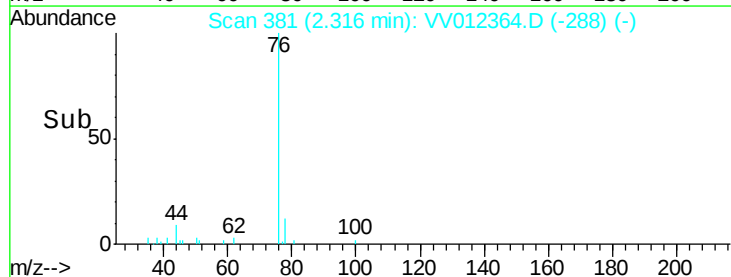
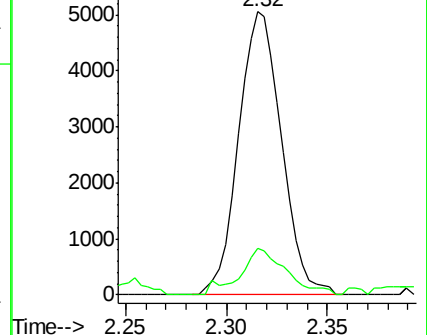
76 100

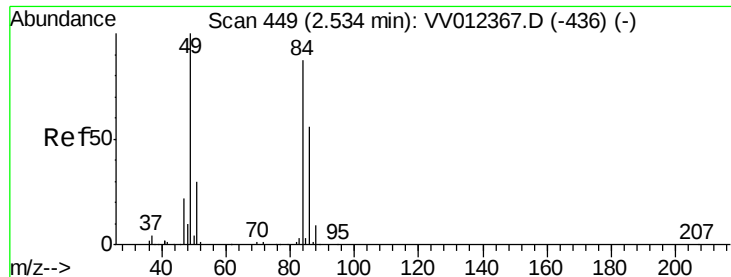
78 16.3 7.3 10.9#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

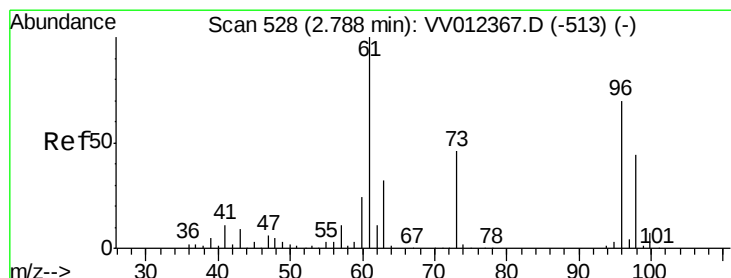
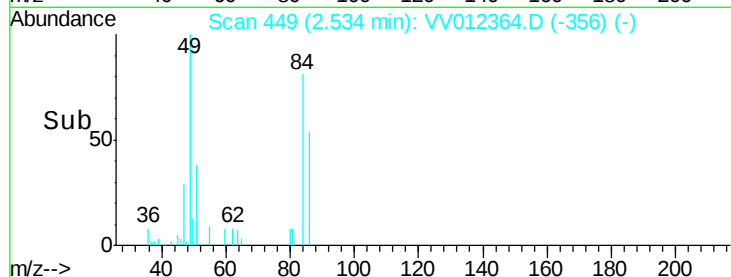
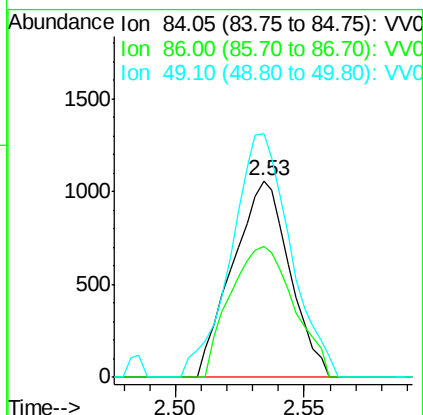
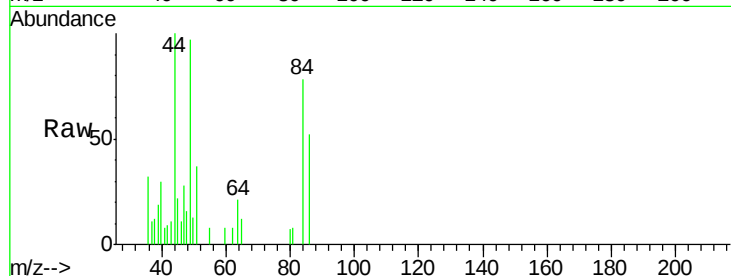




#16
Methylene chloride
Concen: 0.204 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012364.D
Acq: 23 Aug 2019 14:35

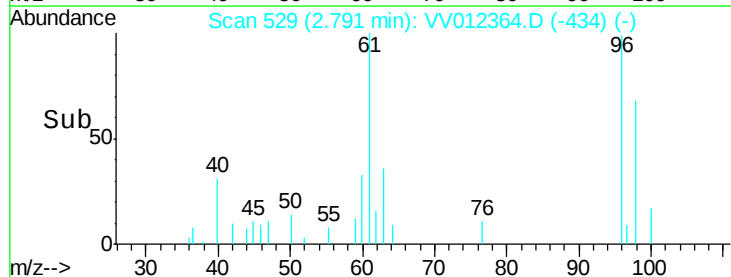
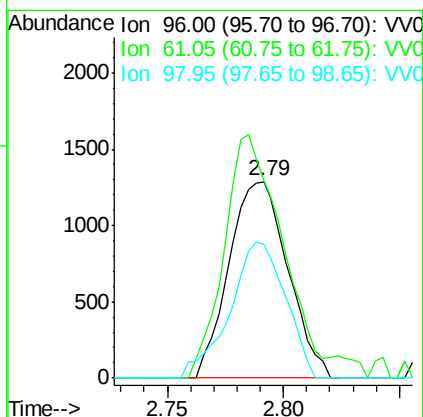
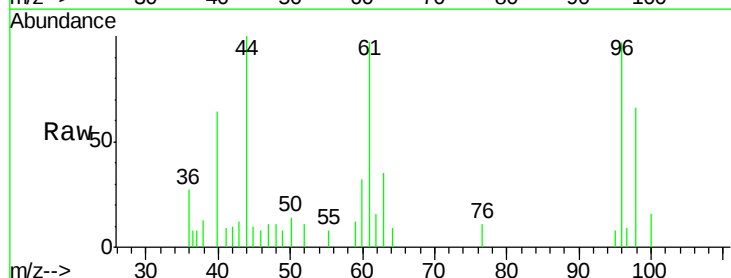
Instrument :
MSVOA_V
ClientSampled :
VBLK68

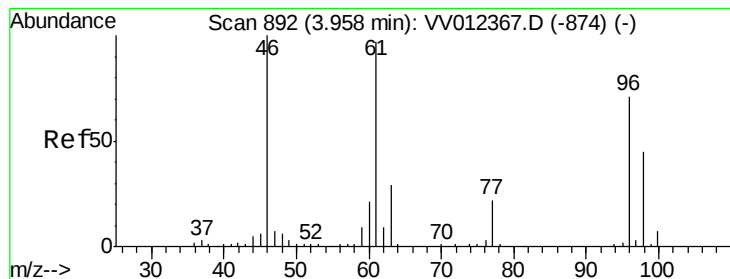
Tot Ion: 84 Resp: 1630
Ion Ratio Lower Upper
84 100
86 66.3 44.9 83.5
49 123.7 81.1 150.7



#18
trans-1,2-Dichloroethene
Concen: 0.212 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV012364.D
Acq: 23 Aug 2019 14:35

Tgt Ion: 96 Resp: 2268
Ion Ratio Lower Upper
96 100
61 91.9 96.0 178.4#
98 62.0 42.1 78.3



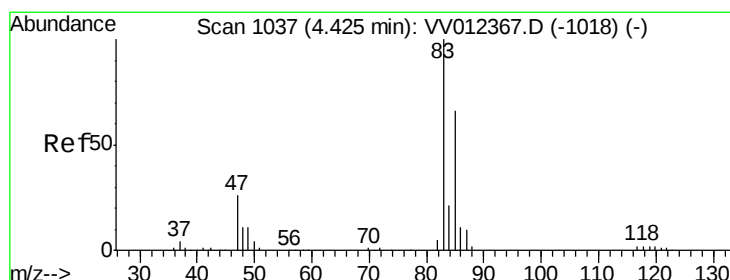
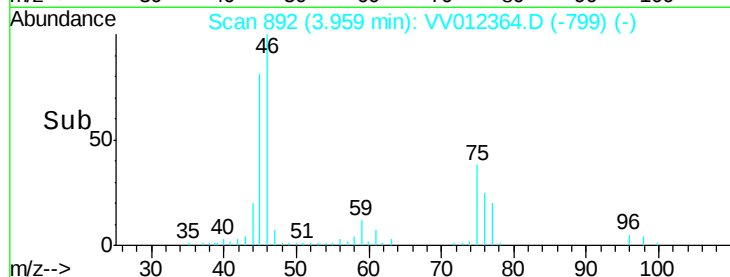
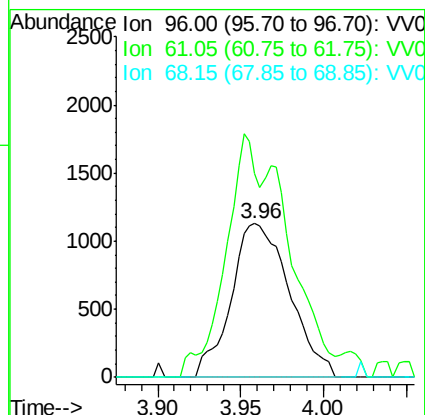
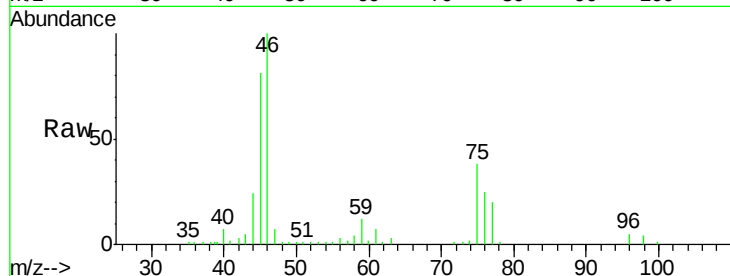


#22

cis-1,2-Dichloroethene
 Concen: 0.237 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV012364.D
 Acq: 23 Aug 2019 14:35

Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK68

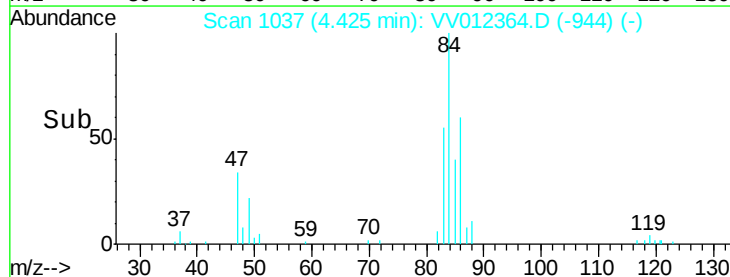
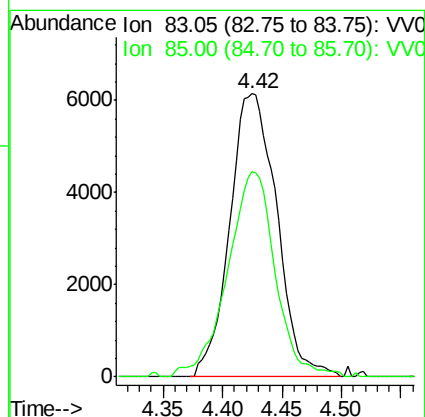
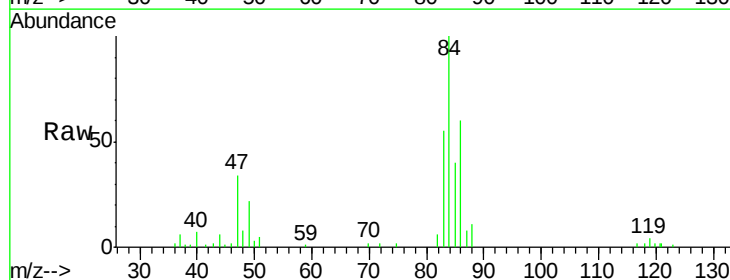
Tot Ion: 96 Resp: 2765
 Ion Ratio Lower Upper
 96 100
 61 132.5 89.4 166.0
 68 0.0 0.0 0.0

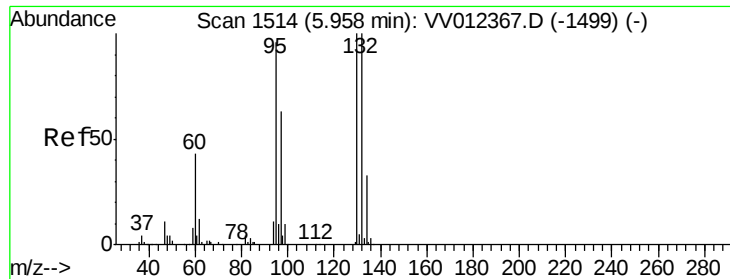


#25

Chloroform
 Concen: 0.760 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VV012364.D
 Acq: 23 Aug 2019 14:35

Tgt Ion: 83 Resp: 16846
 Ion Ratio Lower Upper
 83 100
 85 72.4 44.6 82.8





#34

Trichloroethene

Concen: 0.169 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

VBLK68

Tot Ion: 95 Resp: 2009

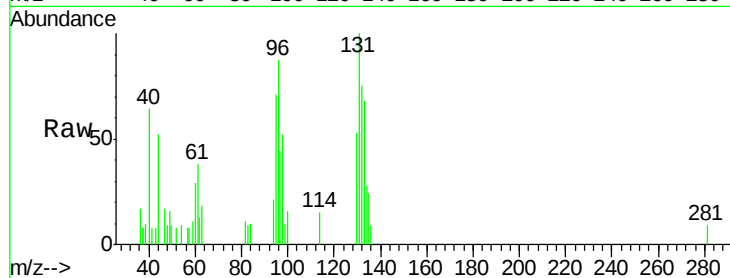
Ion Ratio Lower Upper

95 100

97 61.1 46.3 86.1

132 104.8 70.3 130.7

130 73.9 72.4 134.5

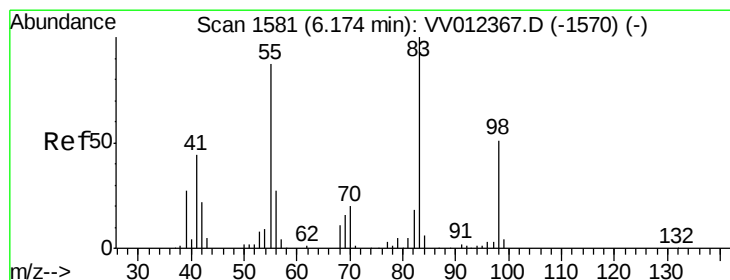
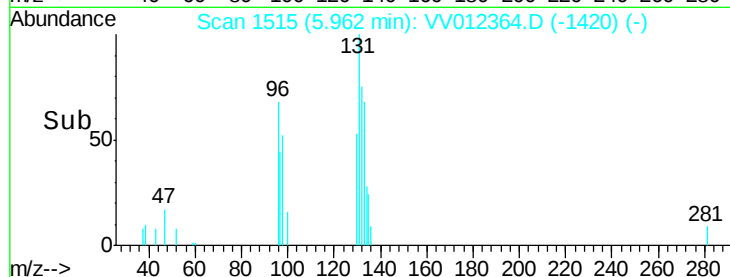
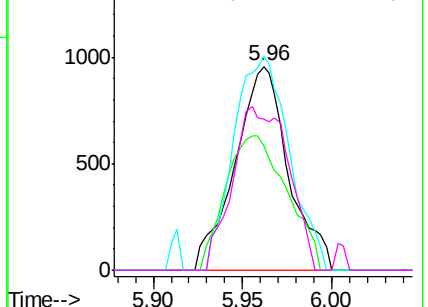


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.136 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

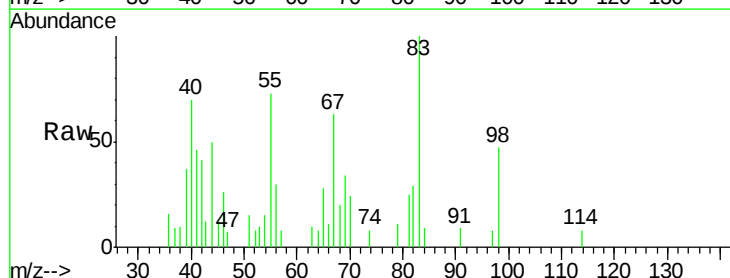
Tgt Ion: 83 Resp: 2542

Ion Ratio Lower Upper

83 100

55 81.9 64.6 97.0

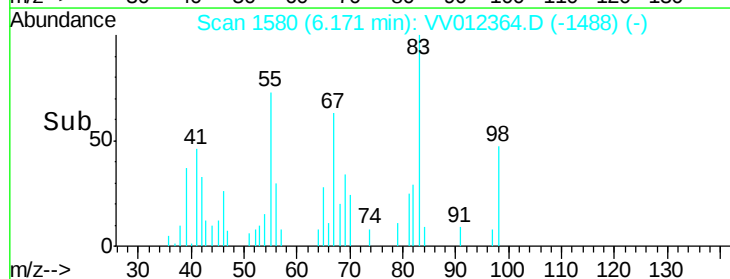
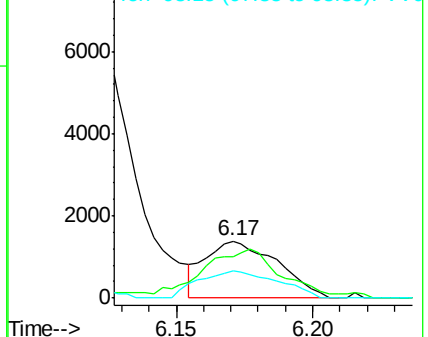
98 52.7 39.0 58.4

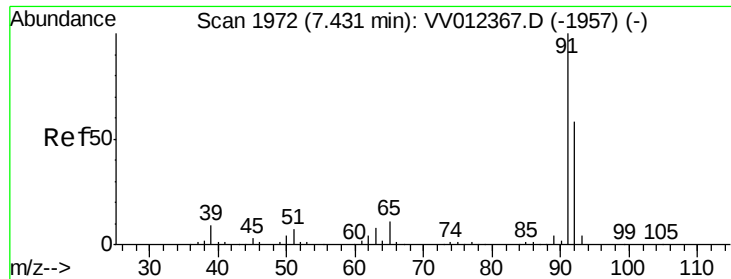


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#42

Toluene

Concen: 0.080 ug/L

RT: 7.44 min Scan# 1974

Delta R.T. 0.01 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

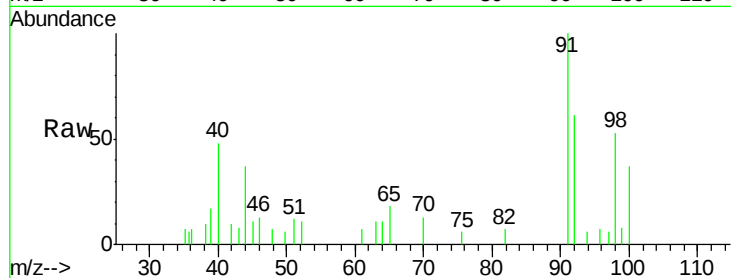
VBLK68

Tot Ion: 91 Resp: 3626

Ion Ratio Lower Upper

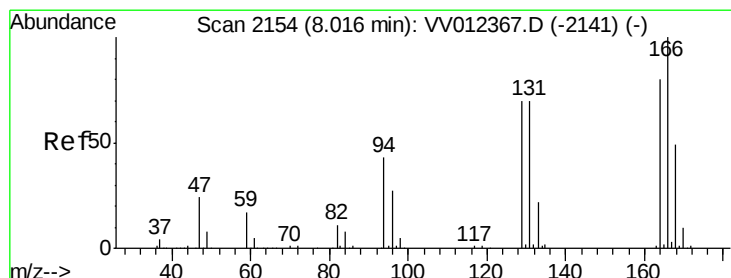
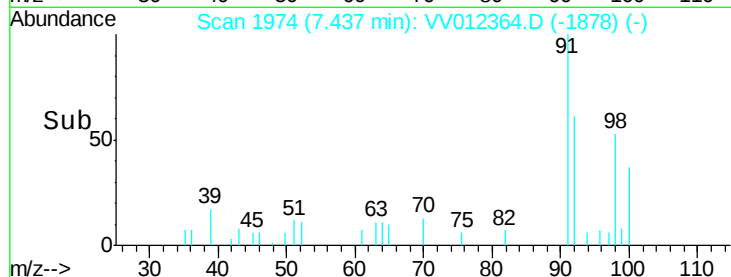
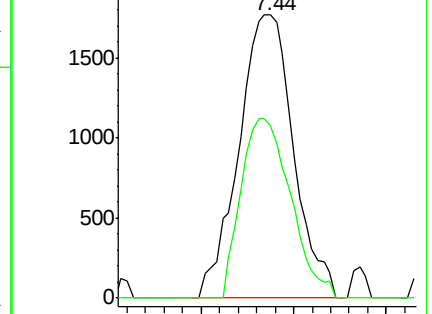
91 100

92 60.7 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#47

Tetrachloroethene

Concen: 0.197 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Tgt Ion: 164 Resp: 1896

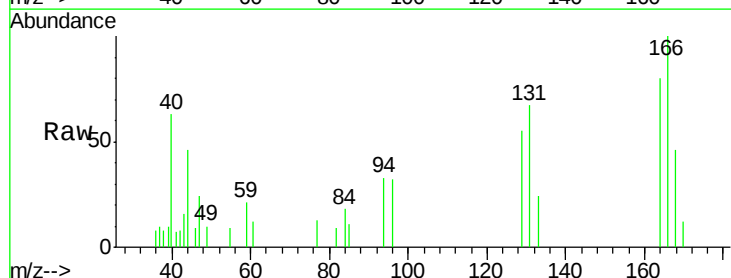
Ion Ratio Lower Upper

164 100

129 69.3 60.6 112.6

131 83.9 58.8 109.2

166 124.8 87.6 162.8

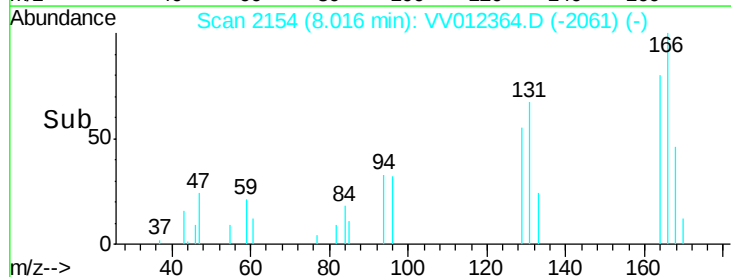
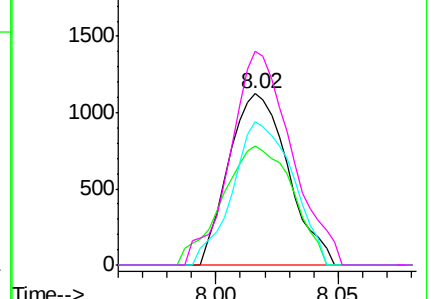


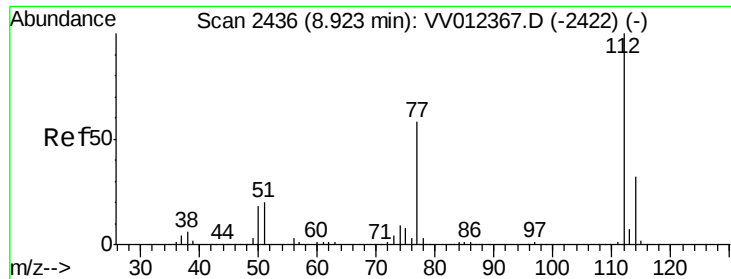
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

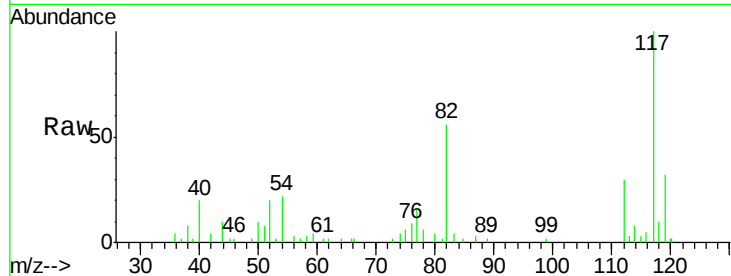




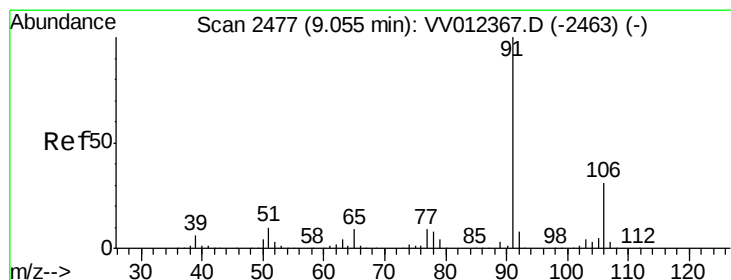
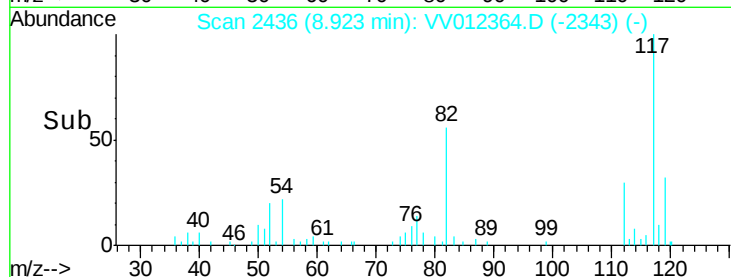
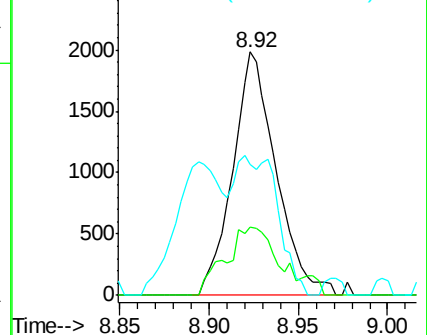
#51
Chlorobenzene
Concen: 0.114 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012364.D
Acq: 23 Aug 2019 14:35

Instrument :
MSVOA_V
ClientSampled :
VBLK68

Tot Ion:112 Resp: 3361
Ion Ratio Lower Upper
112 100
114 27.9 23.0 42.6
77 53.8 46.4 69.6

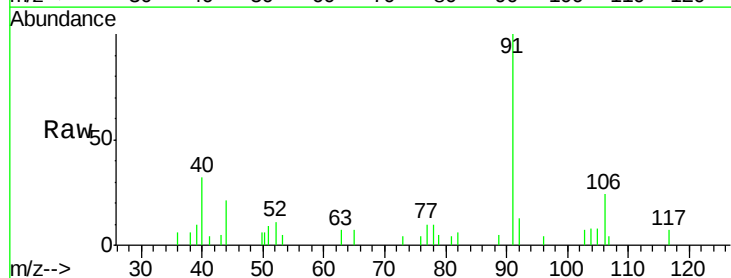


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

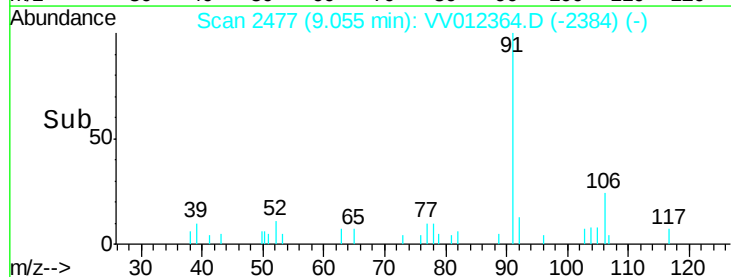
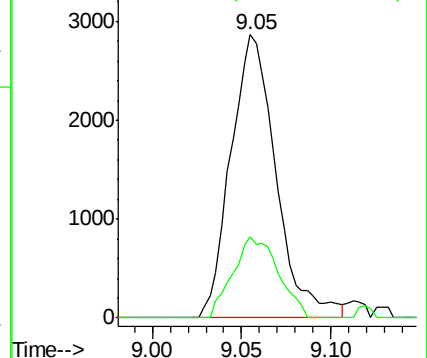


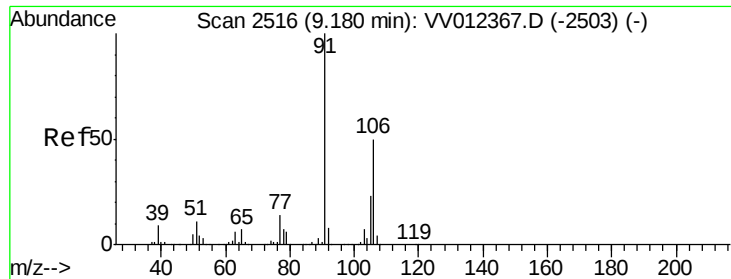
#52
Ethylbenzene
Concen: 0.104 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV012364.D
Acq: 23 Aug 2019 14:35

Tgt Ion: 91 Resp: 5063
Ion Ratio Lower Upper
91 100
106 28.9 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 106.15 (105.85 to 106.85): V

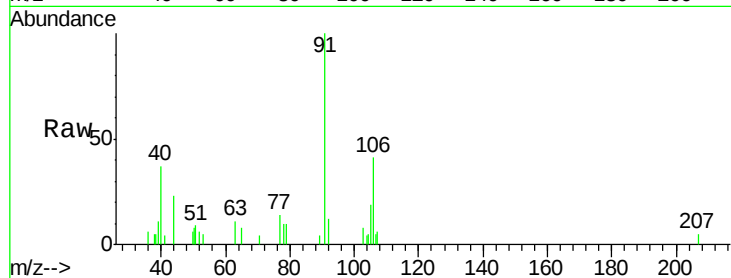




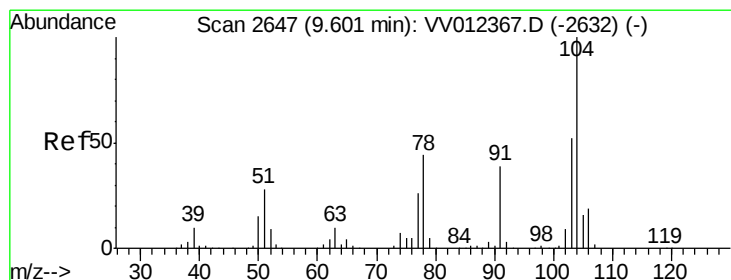
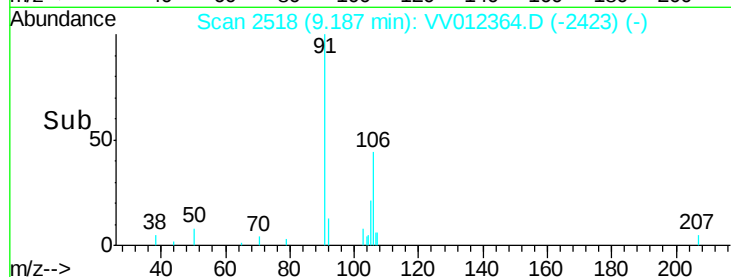
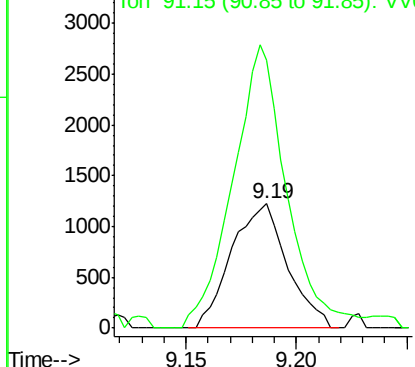
#53
m,p-xylene
Concen: 0.118 ug/L
RT: 9.19 min Scan# 2518
Delta R.T. 0.01 min
Lab File: VV012364.D
Acq: 23 Aug 2019 14:35

Instrument :
MSVOA_V
ClientSampled :
VBLK68

Tot Ion:106 Resp: 2156
Ion Ratio Lower Upper
106 100
91 215.1 140.8 261.4

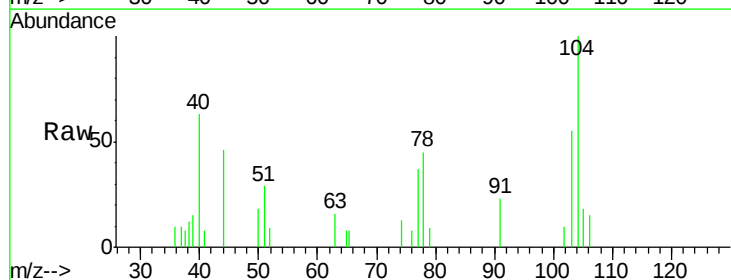


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

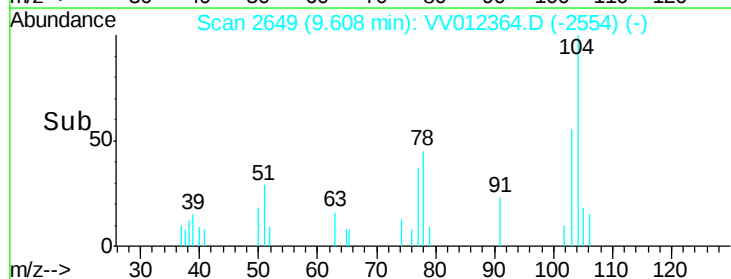
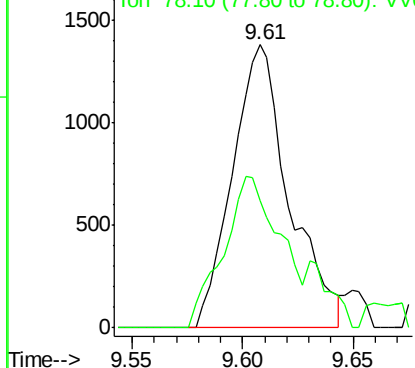


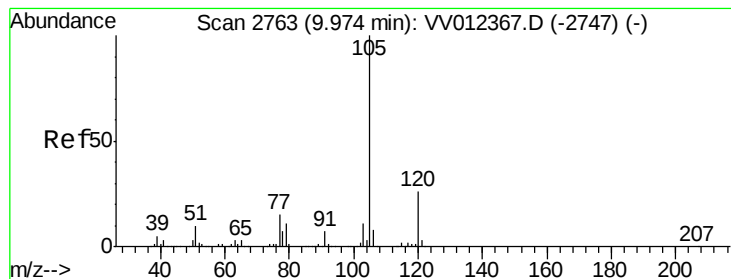
#55
Styrene
Concen: 0.085 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.01 min
Lab File: VV012364.D
Acq: 23 Aug 2019 14:35

Tgt Ion:104 Resp: 2460
Ion Ratio Lower Upper
104 100
78 45.2 29.8 55.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.111 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

VBLK68

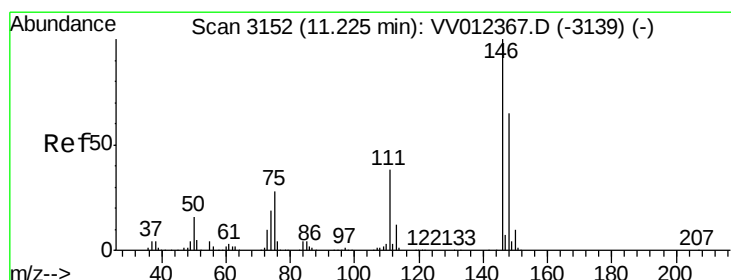
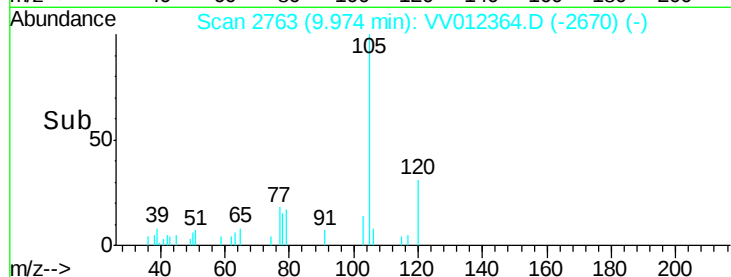
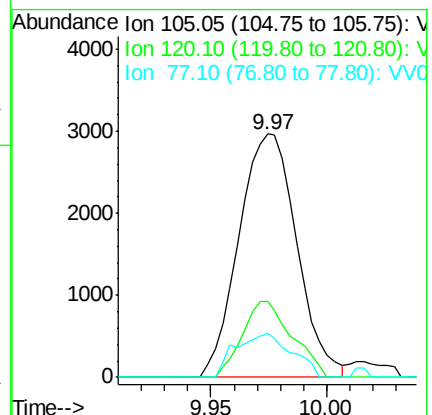
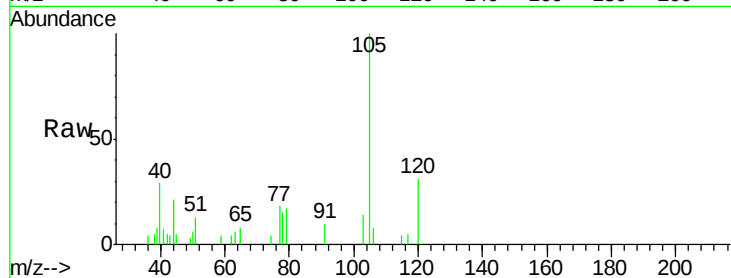
Tot Ion:105 Resp: 5147

Ion Ratio Lower Upper

105 100

120 26.9 21.5 32.3

77 17.6 12.5 18.7



#62

1,3-Dichlorobenzene

Concen: 0.230 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

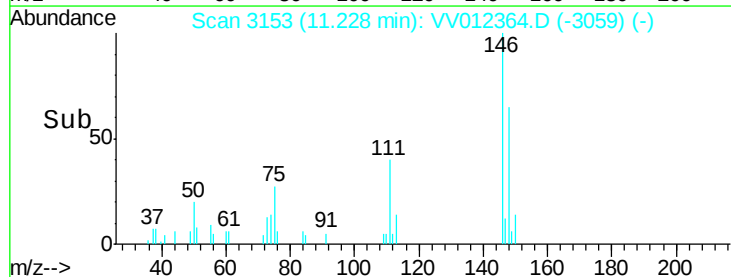
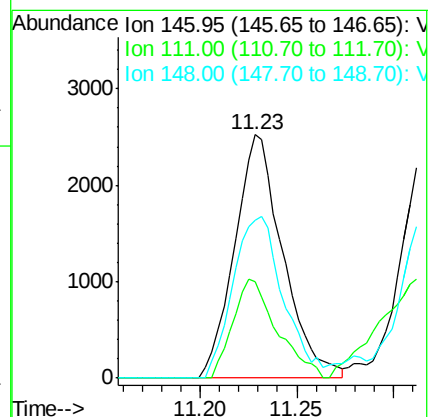
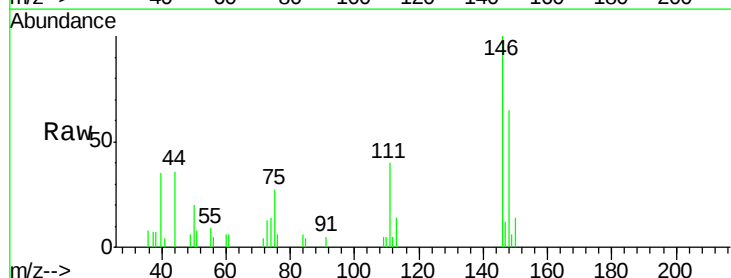
Tgt Ion:146 Resp: 4372

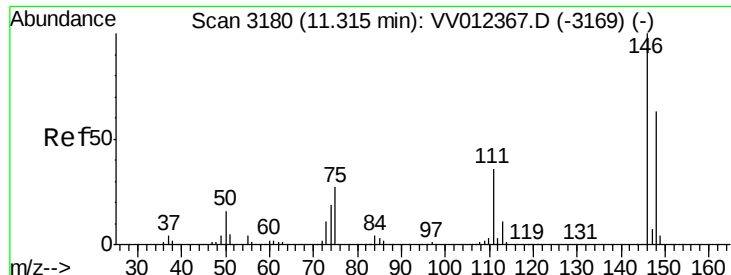
Ion Ratio Lower Upper

146 100

111 39.5 27.0 50.2

148 65.0 44.7 83.1

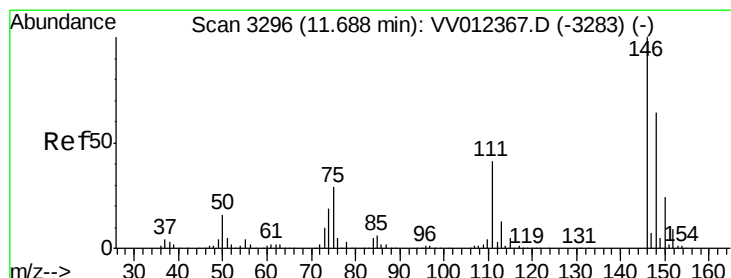
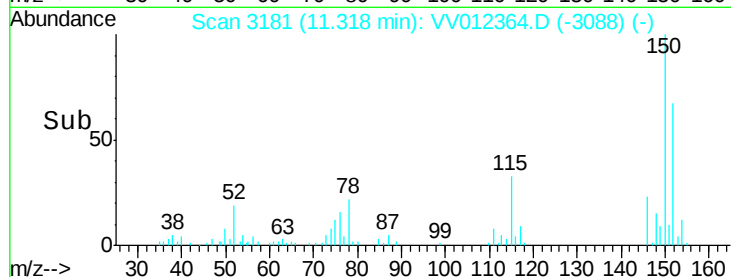
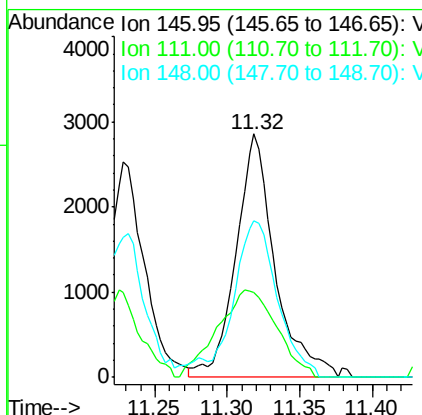
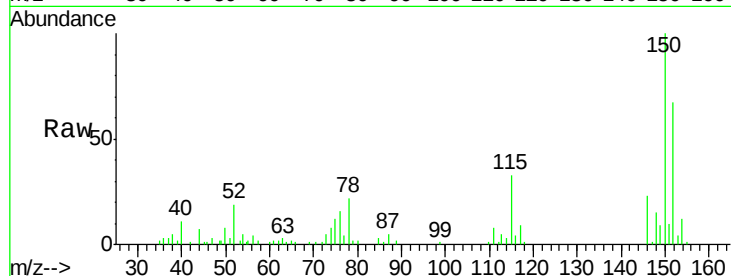




#63
 1,4-Dichlorobenzene
 Concen: 0.280 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012364.D
 Acq: 23 Aug 2019 14:35

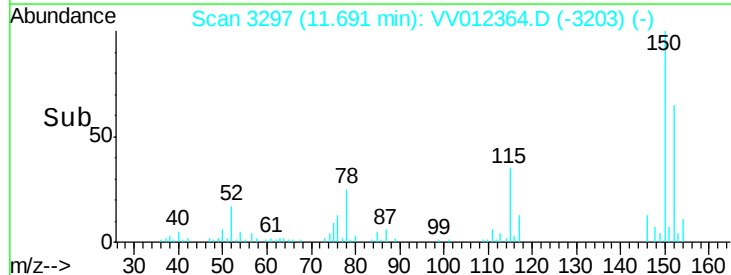
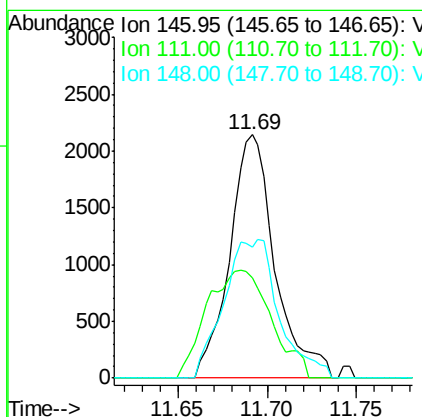
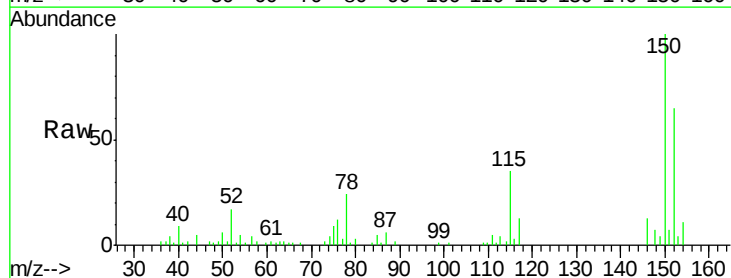
Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK68

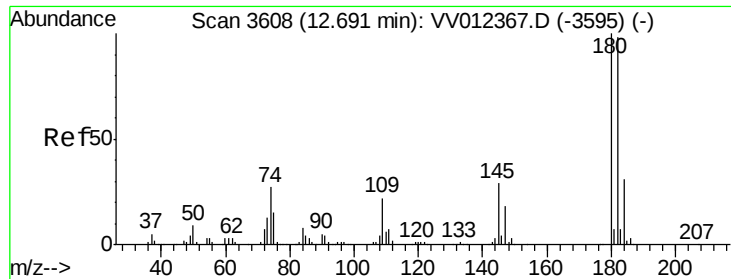
Tot Ion:146 Resp: 5337
 Ion Ratio Lower Upper
 146 100
 111 34.9 25.7 47.7
 148 64.5 45.0 83.6



#65
 1,2-Dichlorobenzene
 Concen: 0.217 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV012364.D
 Acq: 23 Aug 2019 14:35

Tgt Ion:146 Resp: 3795
 Ion Ratio Lower Upper
 146 100
 111 41.4 31.9 47.9
 148 53.7 50.2 75.4

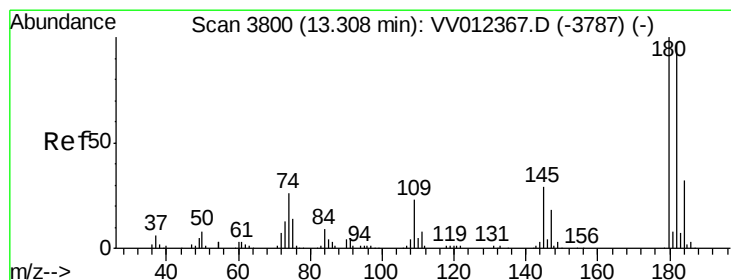
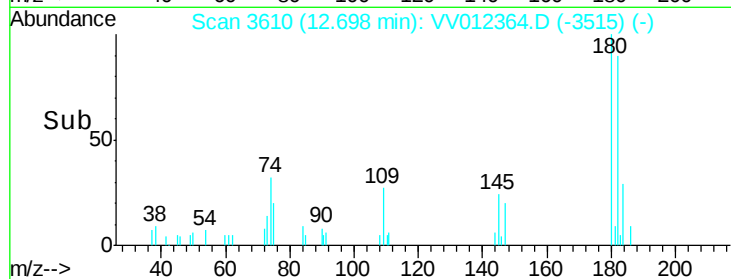
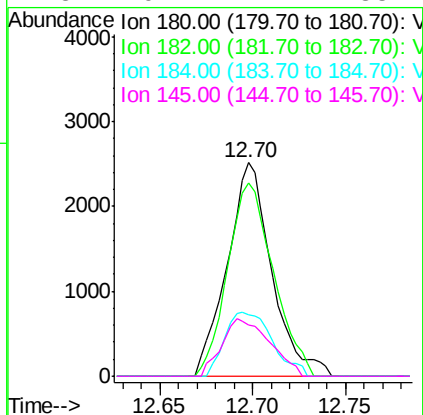
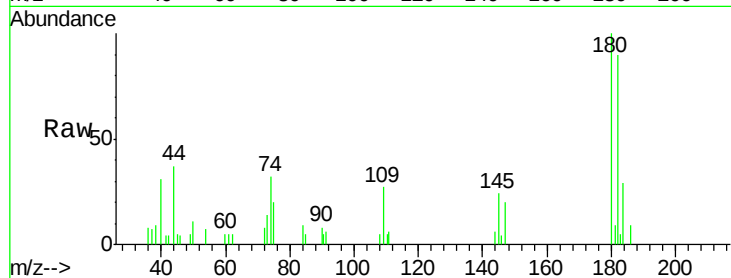




#67
 1,3,5-Trichlorobenzene
 Concen: 0.287 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.01 min
 Lab File: VV012364.D
 Acq: 23 Aug 2019 14:35

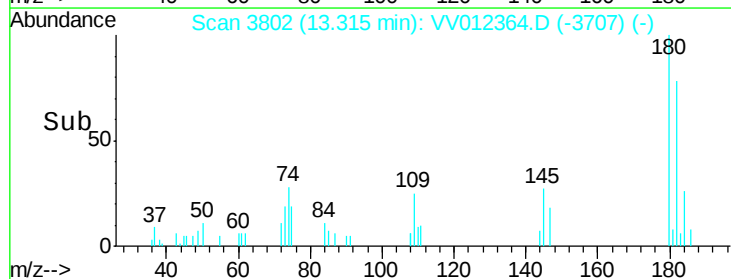
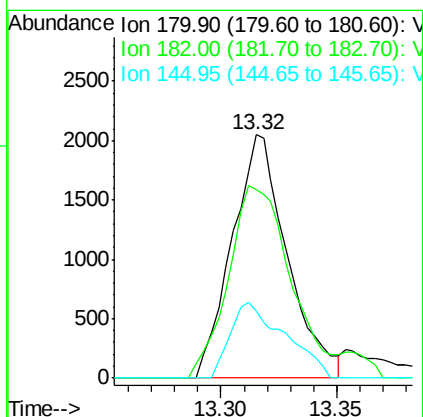
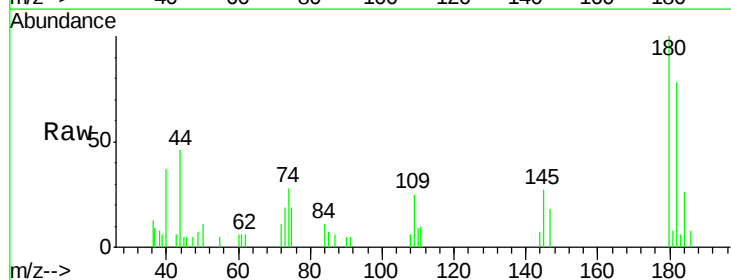
Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK68

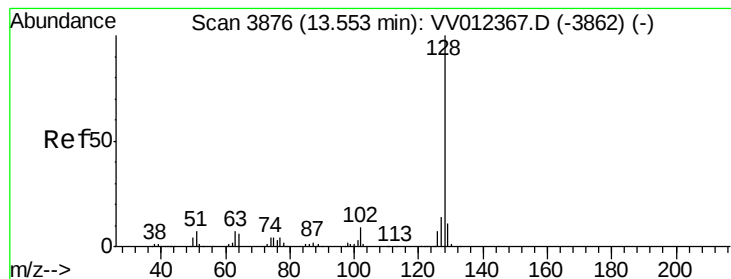
Tot Ion:180	Resp:	4187	
Ion Ratio	Lower	Upper	
180 100			
182 93.1	76.4	114.6	
184 31.9	23.9	35.9	
145 29.1	22.1	33.1	



#68
 1,2,4-trichlorobenzene
 Concen: 0.333 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.01 min
 Lab File: VV012364.D
 Acq: 23 Aug 2019 14:35

Tgt Ion	180	Resp:	3382
	Ratio	Lower	Upper
180	100		
182	88.2	77.3	115.9
145	31.0	22.6	34.0





#69

Naphthalene

Concen: 0.531 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

Instrument :

MSVOA_V

ClientSampleId :

VBLK68

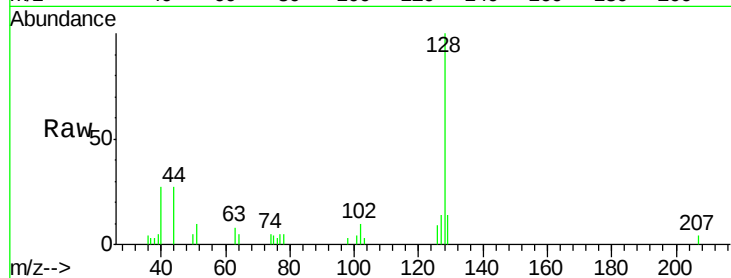
Tot Ion:128 Resp: 7465

Ion Ratio Lower Upper

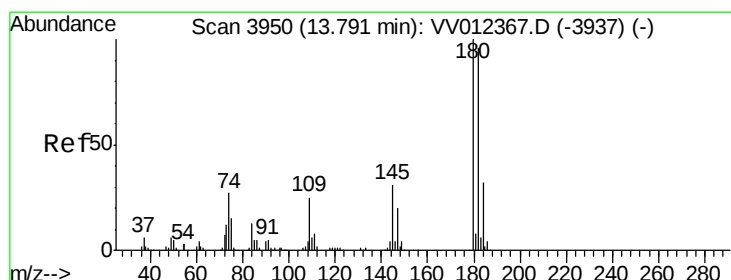
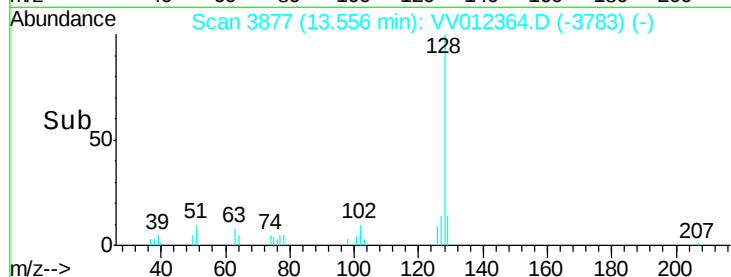
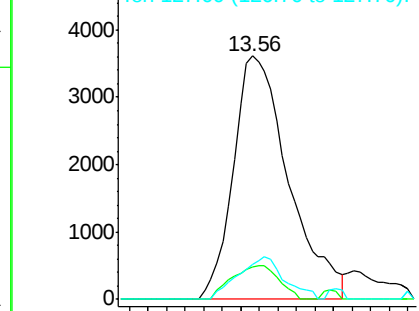
128 100

129 11.8 8.6 12.8

127 14.5 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.384 ug/L

RT: 13.80 min Scan# 3953

Delta R.T. 0.01 min

Lab File: VV012364.D

Acq: 23 Aug 2019 14:35

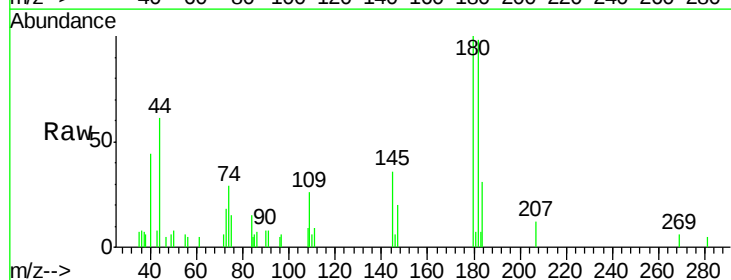
Tgt Ion:180 Resp: 3659

Ion Ratio Lower Upper

180 100

182 106.4 75.1 112.7

145 30.4 23.4 35.2



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

