

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083018\
 Data File : VV007273.D
 Acq On : 30 Aug 2018 20:19
 Operator : SY/MD
 Sample : J4650-12
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GAB87

Quant Time: Aug 31 09:19:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR083018WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 31 02:32:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	297324	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	299560	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	130792	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	122061	4.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.60%
7) Chloroethane-d5	1.58	69	97840	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.13	63	191348	4.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.00%
20) 2-Butanone-d5	3.97	46	247263	48.73	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.46%
24) Chloroform-d	4.41	84	219703	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.09	65	105866	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.10	84	461111	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.12	67	139840	4.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.00%
41) Toluene-d8	7.37	98	353387	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.80%
43) trans-1,3-Dichloropropene-	7.67	79	47601	4.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.00%
46) 2-Hexanone-d5	8.14	63	155019	44.27	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.54%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	100245	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	135880	5.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	89935	3.13	ug/L 95
6) Bromomethane	1.54	94	44070	3.17	ug/L 98
9) Trichlorofluoromethane	1.77	101	236384	6.68	ug/L 99
12) 1,1-Dichloroethene	2.14	96	67305	3.28	ug/L # 82
13) Acetone	2.21	43	172061	61.53	ug/L 99
14) Carbon disulfide	2.32	76	248937	3.67	ug/L 99
16) Methylene chloride	2.54	84	50362	2.08	ug/L 98
17) Methyl tert-butyl Ether	2.82	73	387837	8.41	ug/L 99
19) 1,1-Dichloroethane	3.23	63	370013	9.01	ug/L 99
21) 2-Butanone	4.05	43	540416	107.47	ug/L 100
27) 1,2-Dichloroethane	5.19	62	167442	6.89	ug/L 98
29) 1,1,1-Trichloroethane	4.66	97	295012	7.96	ug/L 99
30) Cyclohexane	4.73	56	355159	9.83	ug/L 98
34) Trichloroethene	5.96	95	114340	4.80	ug/L 98
35) Methylcyclohexane	6.18	83	204941	5.41	ug/L 100
37) 1,2-Dichloropropane	6.23	63	49749	1.98	ug/L 97
42) Toluene	7.44	91	771135	7.96	ug/L 100

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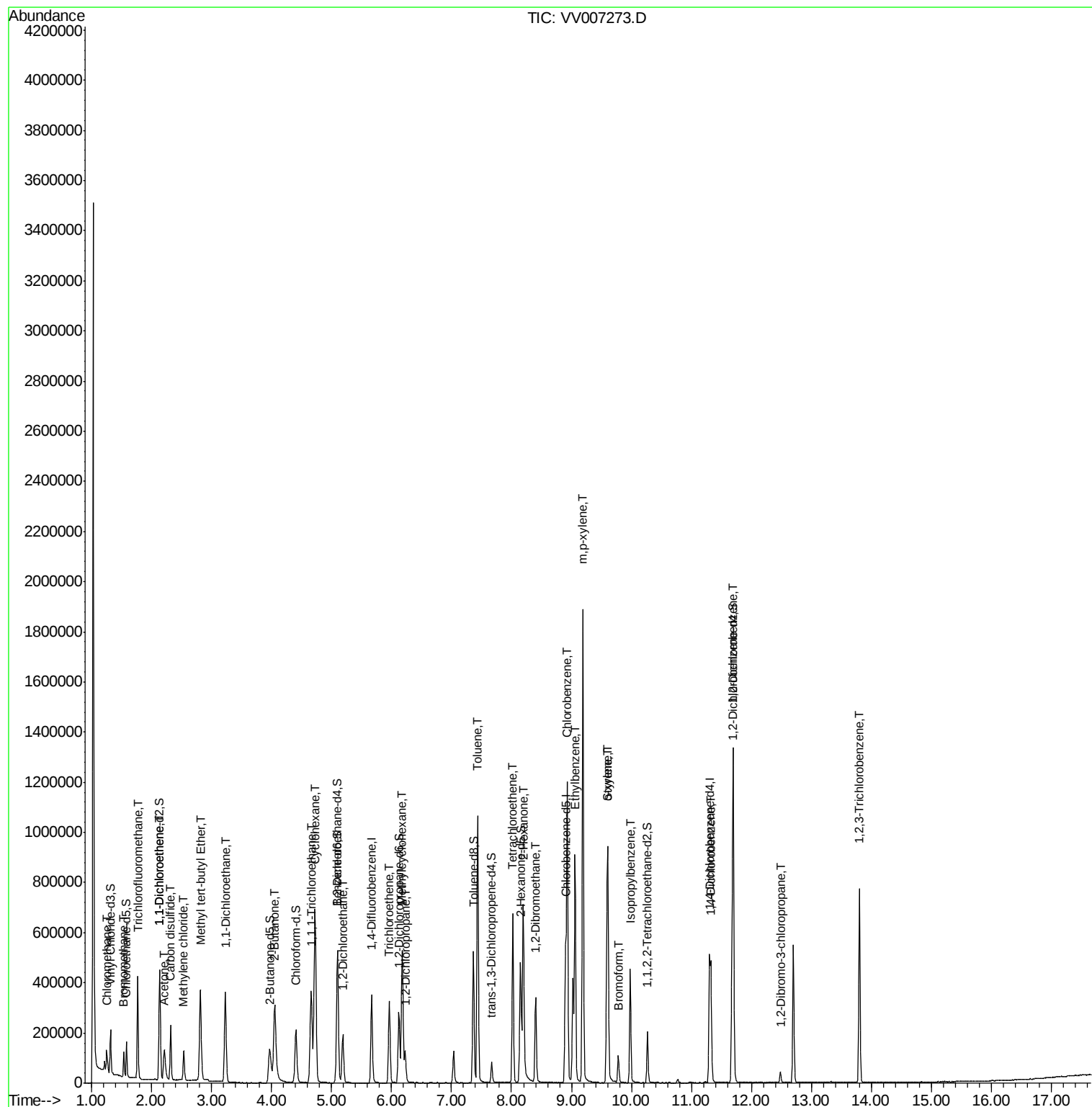
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.02	164	158851	7.72	ug/L	98
48) 2-Hexanone	8.20	43	462118	56.85	ug/L	98
50) 1,2-Dibromoethane	8.40	107	225298	15.45	ug/L	99
51) Chlorobenzene	8.93	112	643406	10.17	ug/L	100
52) Ethylbenzene	9.06	91	610355	6.25	ug/L	99
53) m,p-xylene	9.19	106	507729	13.44	ug/L	96
54) o-xylene	9.59	106	185915	5.28	ug/L	99
55) Styrene	9.61	104	330010	5.39	ug/L	97
56) Isopropylbenzene	9.98	105	283251	3.11	ug/L	99
61) Bromoform	9.78	173	50461	5.20	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	181822	4.25	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	507686	12.64	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	10787	4.28	ug/L	93
70) 1,2,3-Trichlorobenzene	13.80	180	245431	10.07	ug/L	99

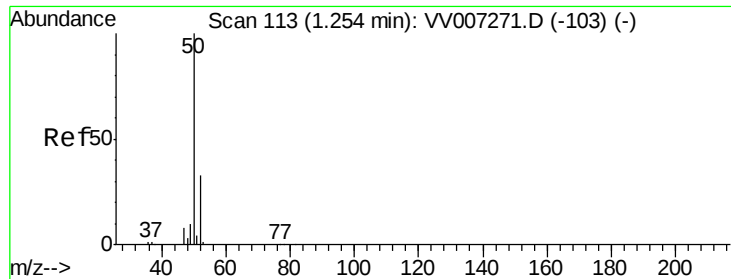
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 3.13 ug/L

RT: 1.25 min Scan# 113

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampleId :

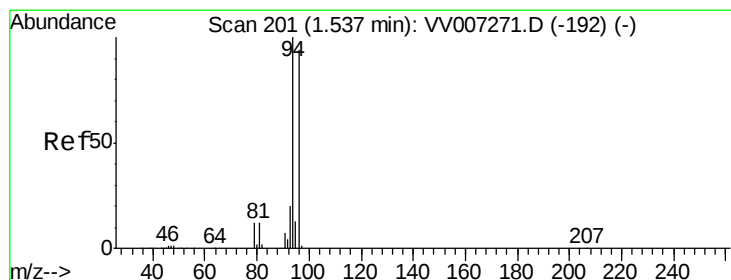
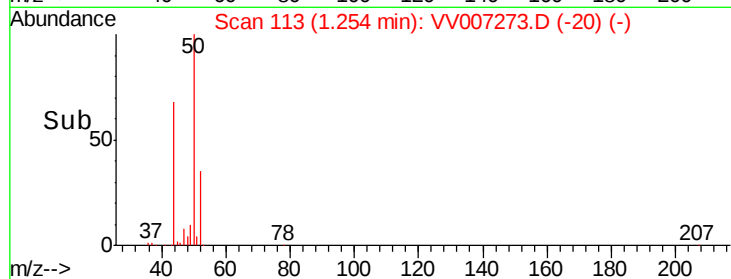
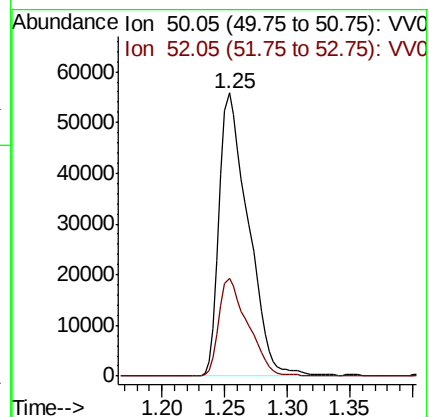
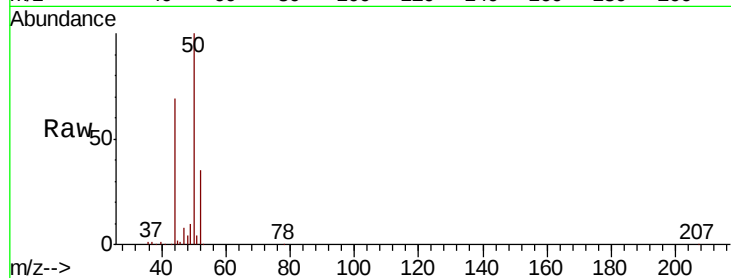
GAB87

Tot Ion: 50 Resp: 89935

Ion Ratio Lower Upper

50 100

52 34.8 22.4 41.6



#6

Bromomethane

Concen: 3.17 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV007273.D

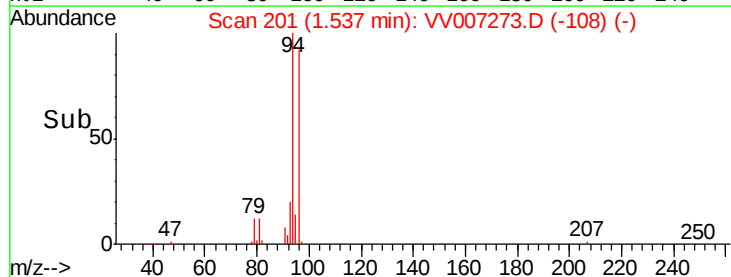
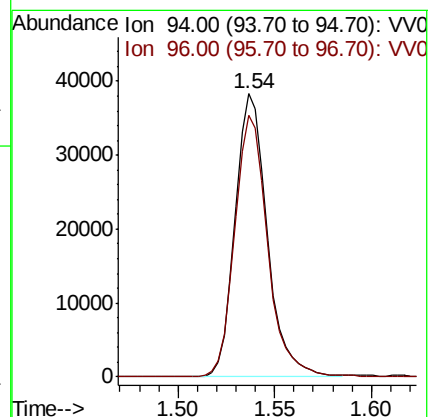
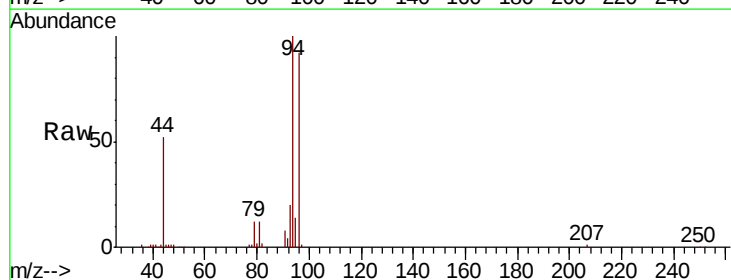
Acq: 30 Aug 2018 20:19

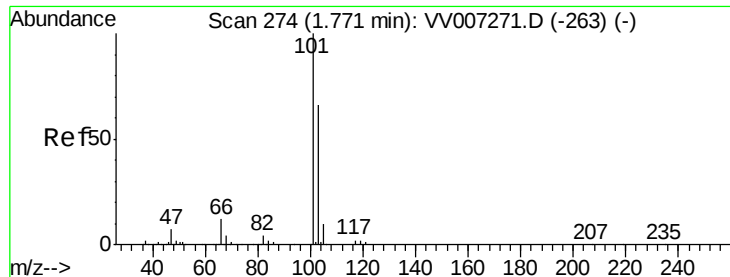
Tgt Ion: 94 Resp: 44070

Ion Ratio Lower Upper

94 100

96 92.3 65.8 122.2



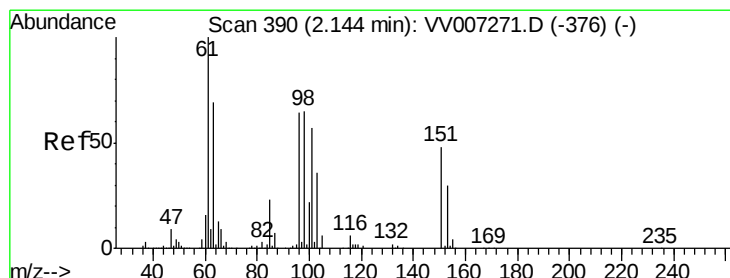
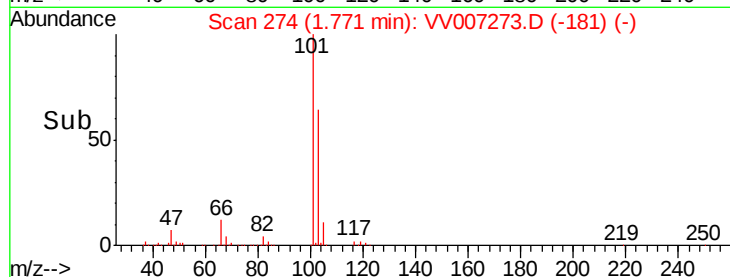
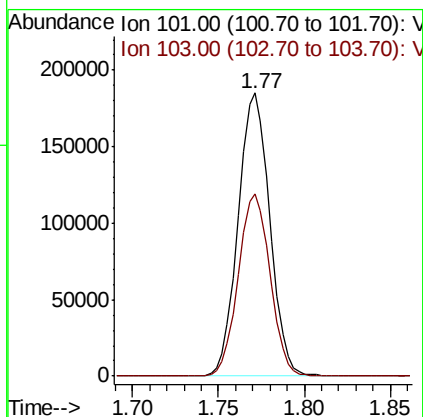
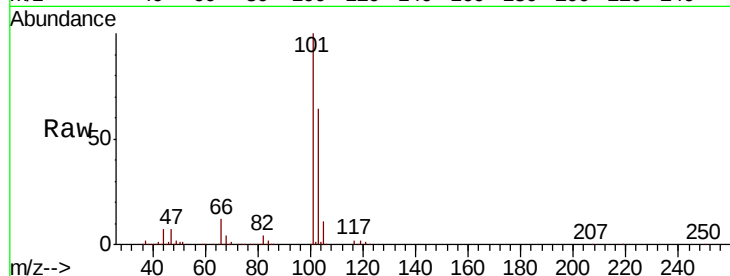


#9

Trichlorofluoromethane
 Concen: 6.68 ug/L
 RT: 1.77 min Scan# 274
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

Instrument :
 MSVOA_V
 ClientSampleId :
 GAB87

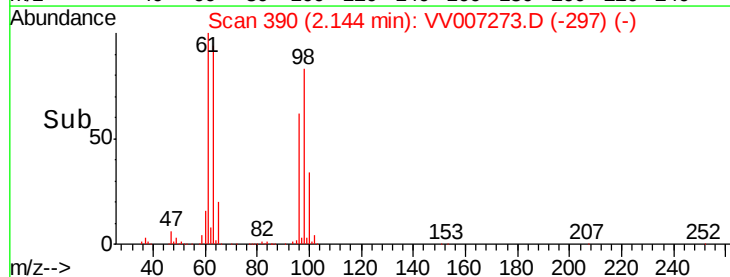
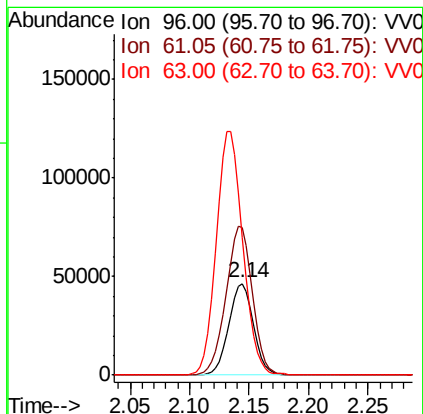
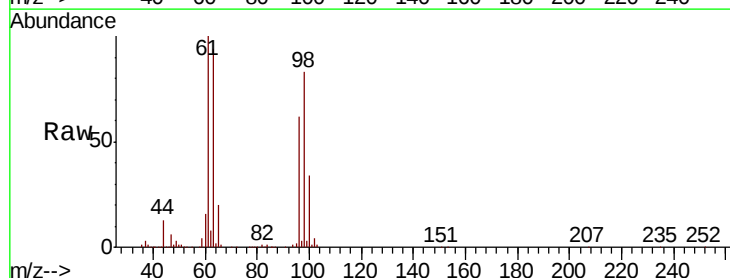
Tot Ion:101 Resp: 236384
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.4 77.0

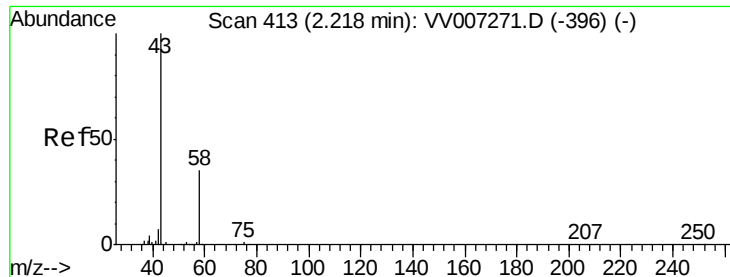


#12

1,1-Dichloroethene
 Concen: 3.28 ug/L
 RT: 2.14 min Scan# 390
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

Tgt Ion: 96 Resp: 67305
 Ion Ratio Lower Upper
 96 100
 61 160.4 108.8 202.0
 63 150.4 78.0 144.9#





#13

Acetone

Concen: 61.53 ug/L

RT: 2.21 min Scan# 412

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampleId :

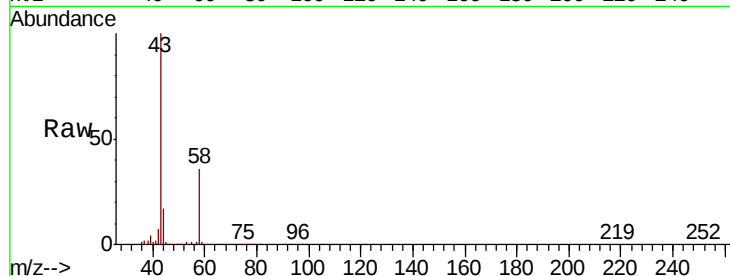
GAB87

Tot Ion: 43 Resp: 172061

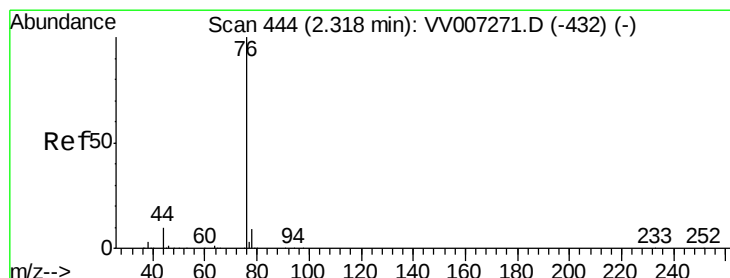
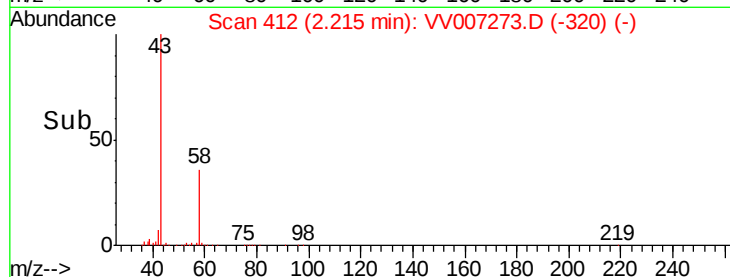
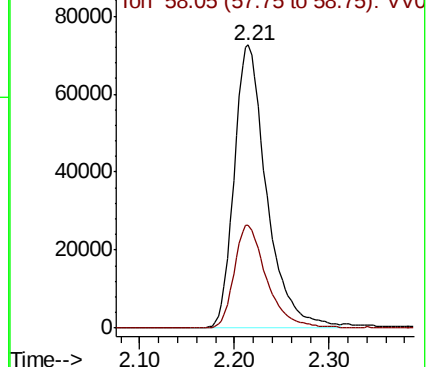
Ion Ratio Lower Upper

43 100

58 36.8 0.0 71.8



Abundance Ion 43.05 (42.75 to 43.75): VV007273.D (-396) (-)



#14

Carbon disulfide

Concen: 3.67 ug/L

RT: 2.32 min Scan# 445

Delta R.T. 0.00 min

Lab File: VV007273.D

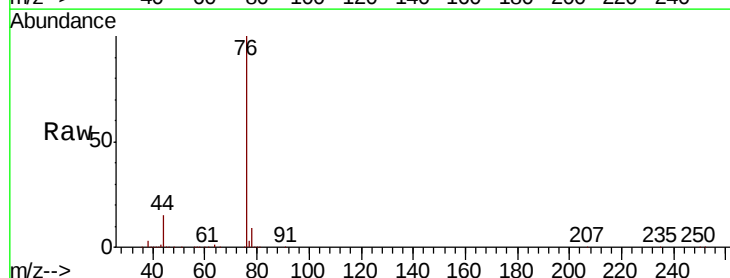
Acq: 30 Aug 2018 20:19

Tgt Ion: 76 Resp: 248937

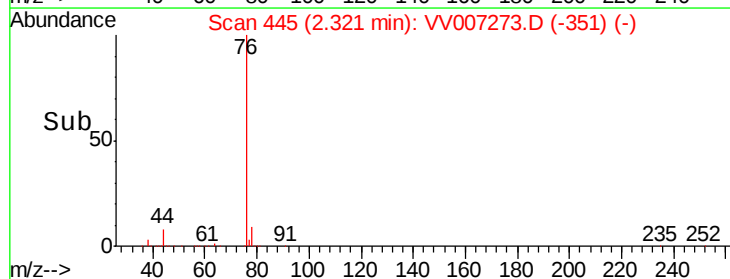
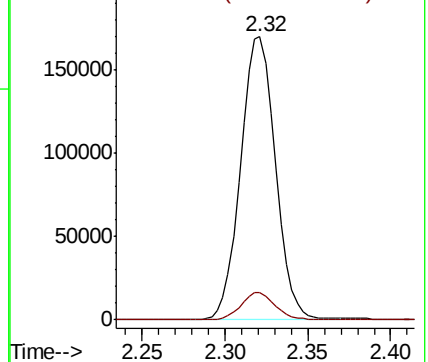
Ion Ratio Lower Upper

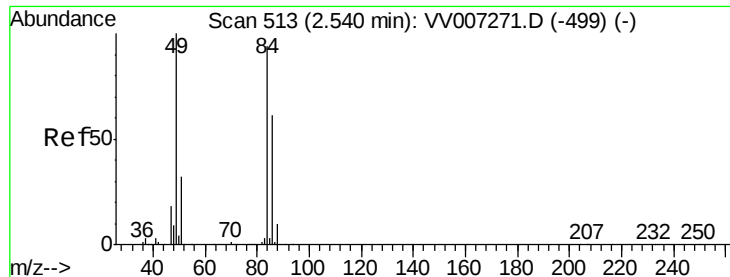
76 100

78 9.5 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV007273.D (-432) (-)

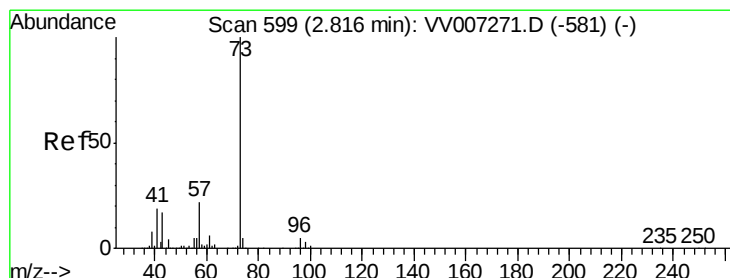
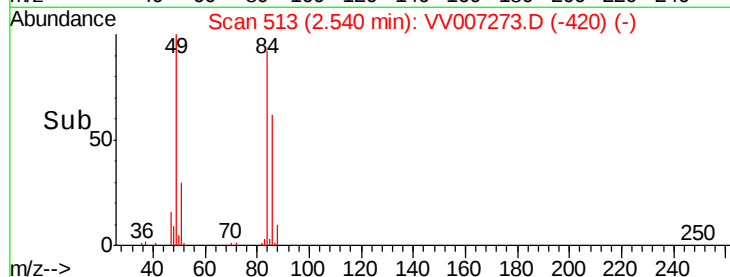
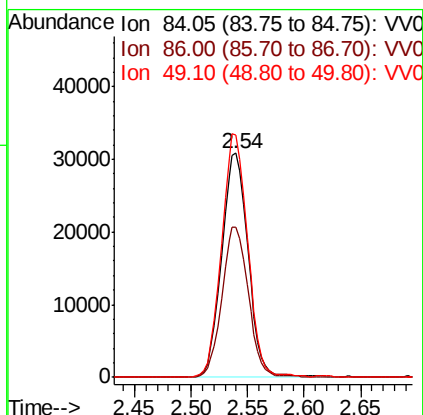
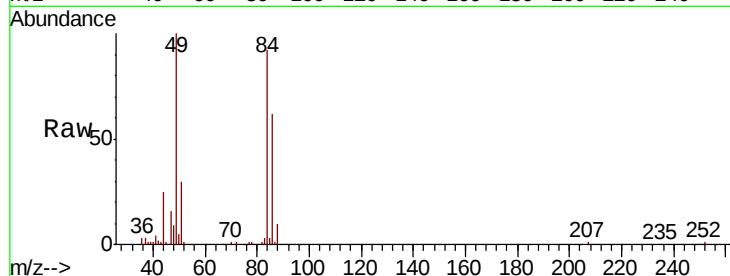




#16
Methvlene chloride
Concen: 2.08 ug/L
RT: 2.54 min Scan# 513
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

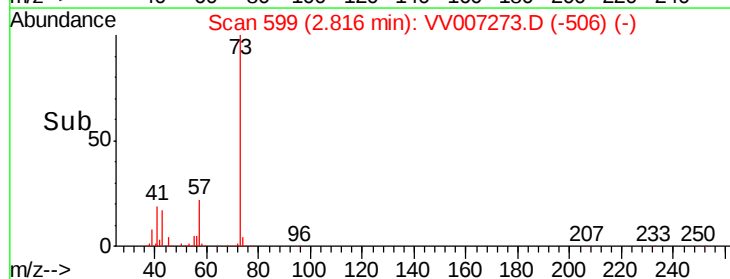
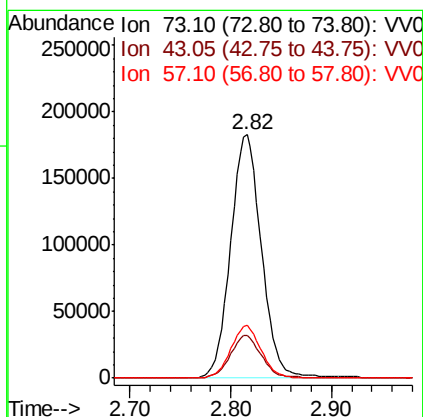
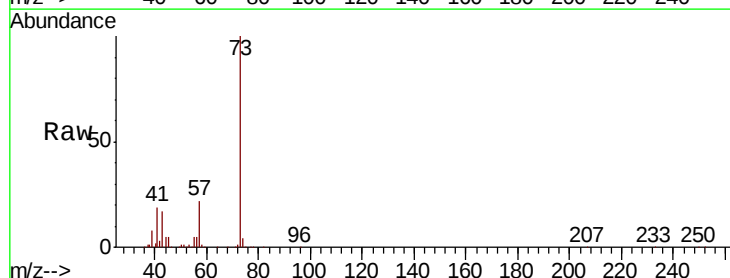
Instrument :
MSVOA_V
ClientSampled :
GAB87

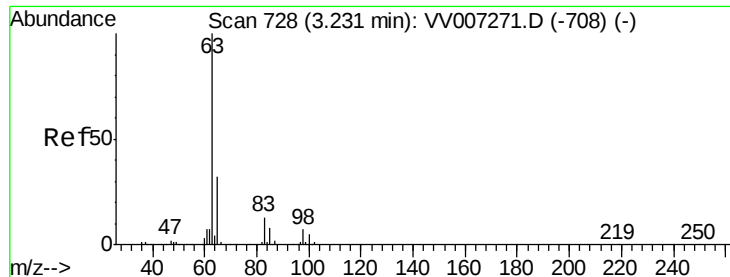
Tot Ion: 84 Resp: 50362
Ion Ratio Lower Upper
84 100
86 66.8 44.8 83.2
49 108.3 75.2 139.6



#17
Methyl tert-butyl Ether
Concen: 8.41 ug/L
RT: 2.82 min Scan# 599
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

Tgt Ion: 73 Resp: 387837
Ion Ratio Lower Upper
73 100
43 17.0 13.2 19.8
57 21.3 17.3 25.9

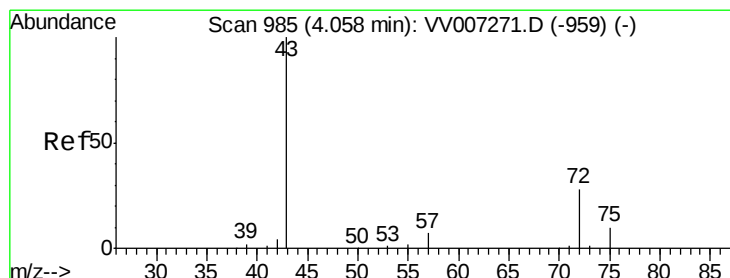
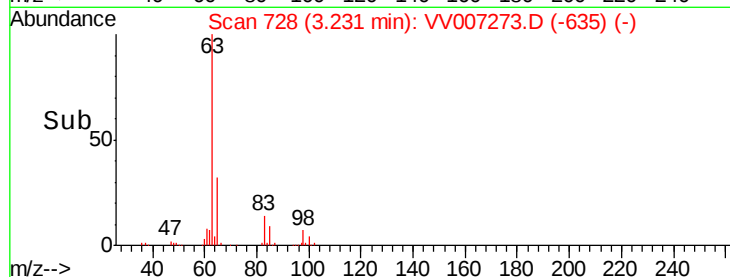
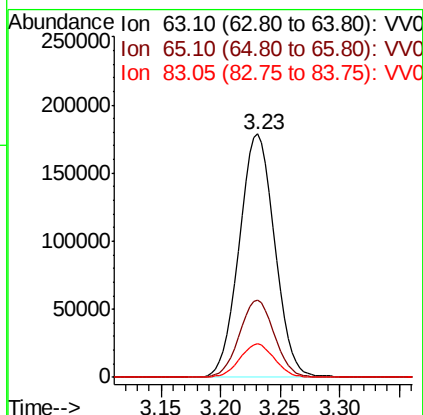
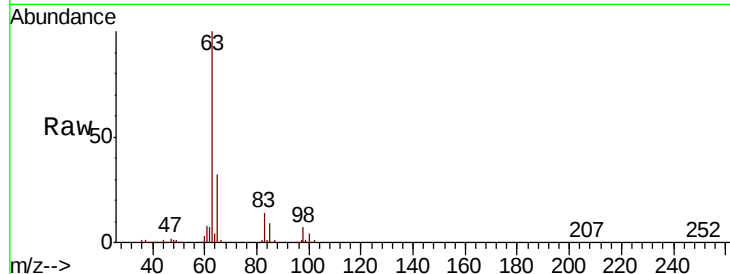




#19
 1,1-Dichloroethane
 Concen: 9.01 ug/L
 RT: 3.23 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

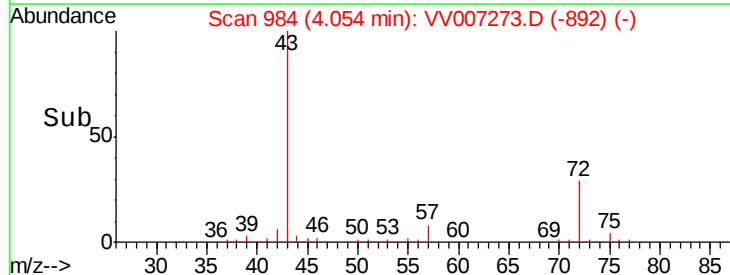
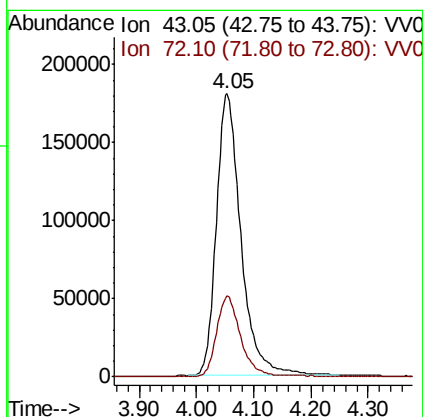
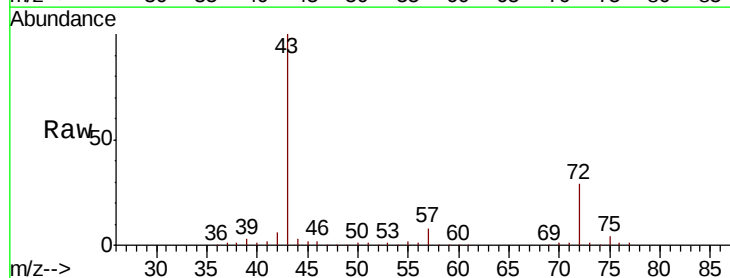
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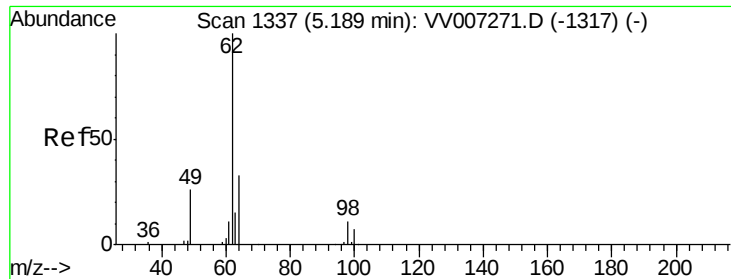
Tot Ion:	63	Resp:	370013
Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.1	41.1
83	13.7	9.4	17.6



#21
 2-Butanone
 Concen: 107.47 ug/L
 RT: 4.05 min Scan# 984
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

Tgt Ion:	43	Resp:	540416
Ion	Ratio	Lower	Upper
43	100		
72	28.2	14.1	42.3

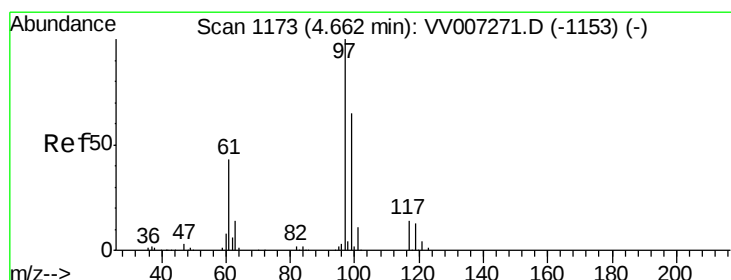
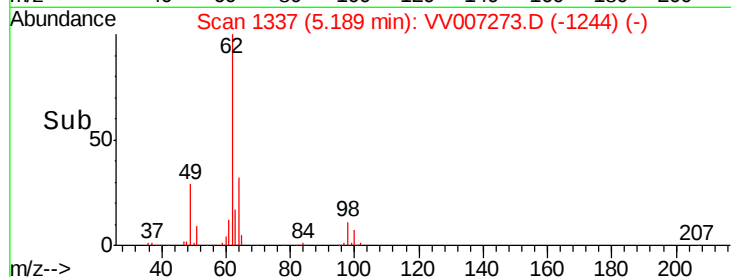
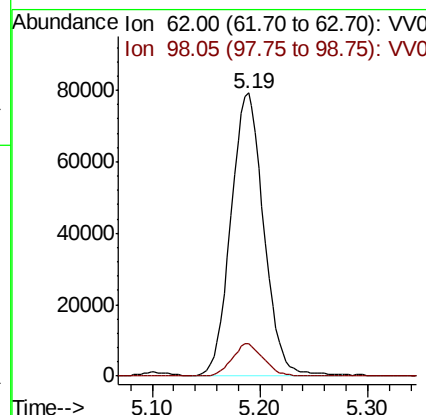
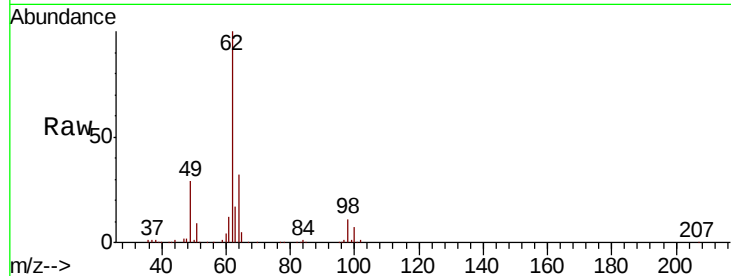




#27
 1,2-Dichloroethane
 Concen: 6.89 ug/L
 RT: 5.19 min Scan# 1337
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

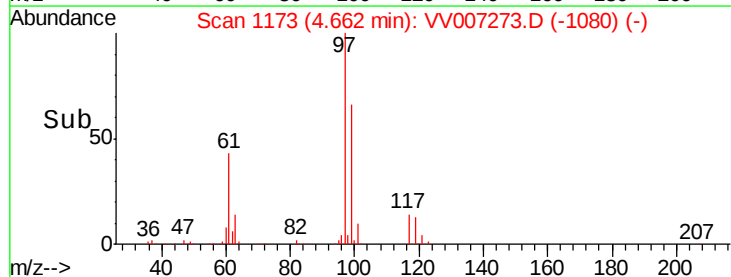
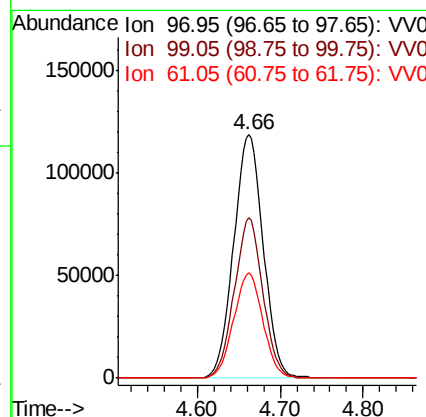
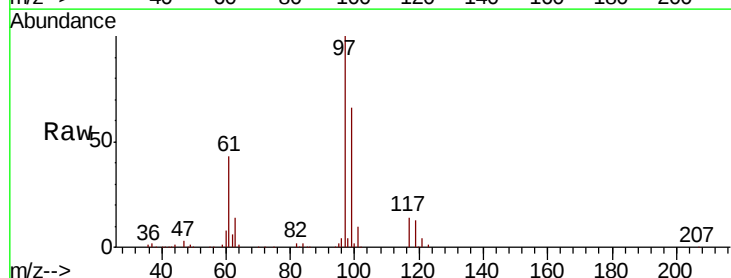
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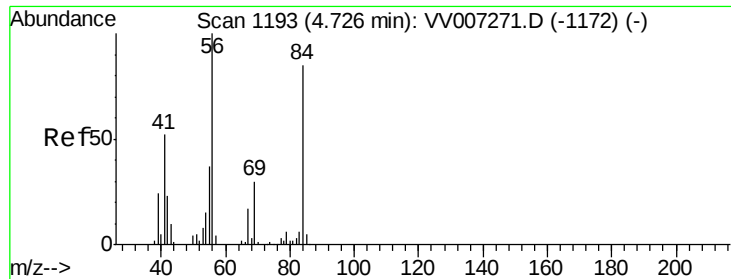
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 Ion Ratio Lower Upper
 62 100
 98 11.3 8.6 12.8



#29
 1,1,1-Trichloroethane
 Concen: 7.96 ug/L
 RT: 4.66 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

Tgt Ion: 97 Resp: 295012
 Ion Ratio Lower Upper
 97 100
 99 63.3 51.5 77.3
 61 42.9 33.9 50.9

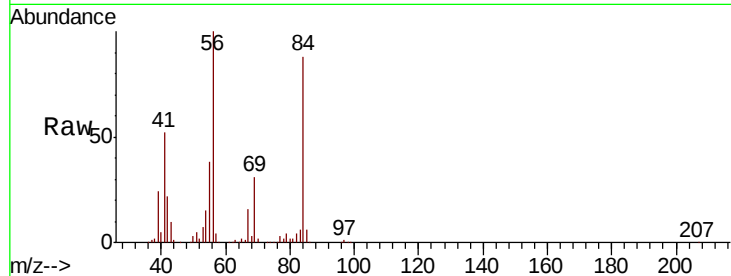




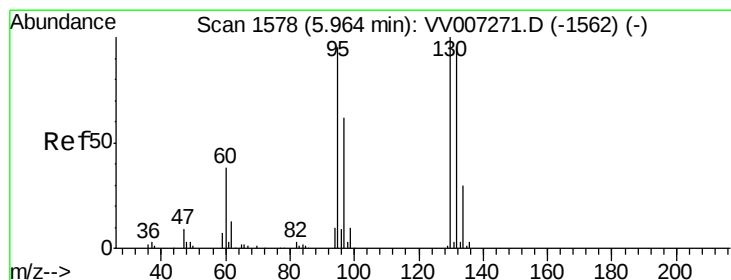
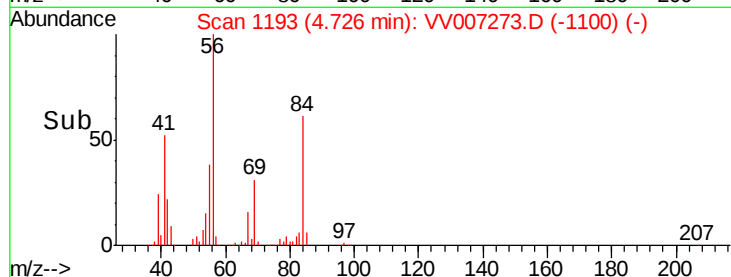
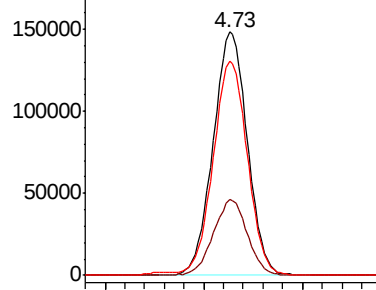
#30
Cvclohexane
Concen: 9.83 ug/L
RT: 4.73 min Scan# 1193
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

Instrument :
MSVOA_V
ClientSampleId :
GAB87

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.7	37.1
84	88.0	68.7	103.1

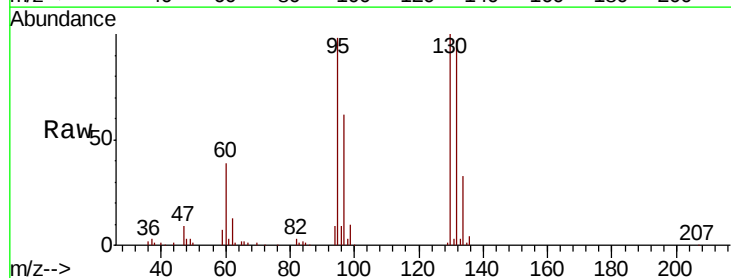


Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0

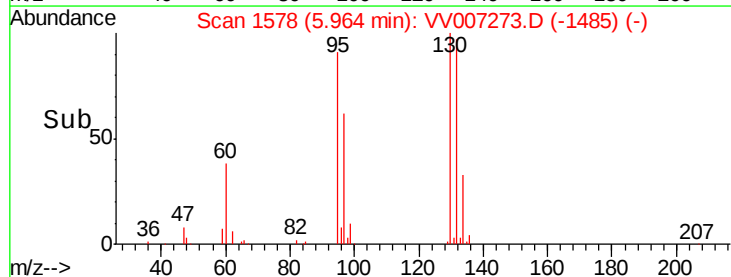
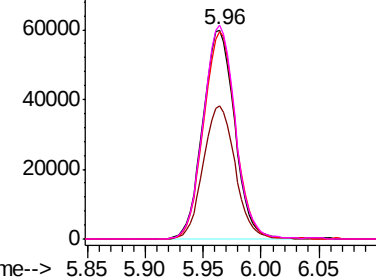


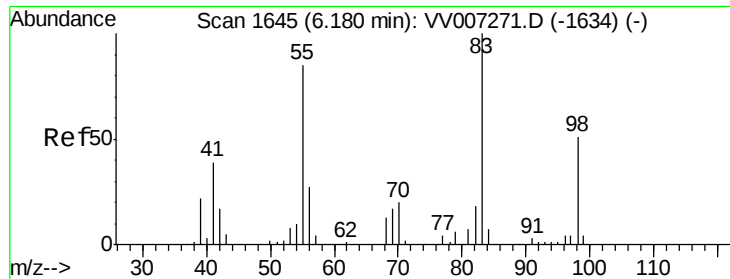
#34
Trichloroethene
Concen: 4.80 ug/L
RT: 5.96 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

Tgt Ion	Ratio	Lower	Upper
95	100		
97	63.8	44.2	82.2
132	99.3	70.9	131.7
130	102.1	72.7	135.1



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): V
Ion 129.95 (129.65 to 130.65): V

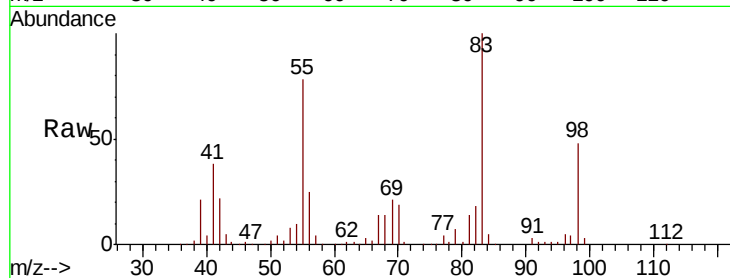




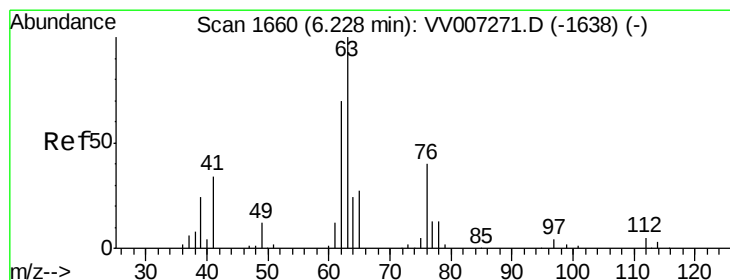
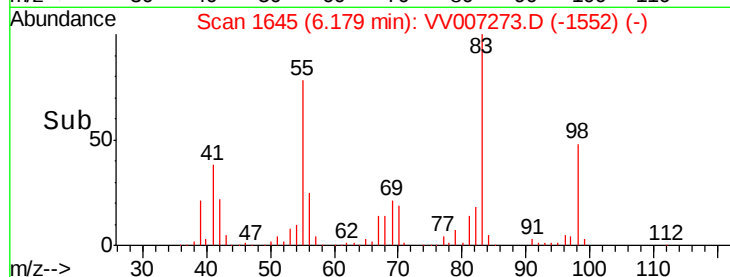
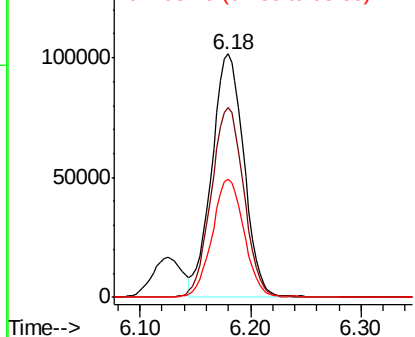
#35
Methvlcvclohexane
Concen: 5.41 ug/L
RT: 6.18 min Scan# 1645
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

Instrument :
MSVOA_V
ClientSampleId :
GAB87

Tot Ion: 83 Resp: 204941
Ion Ratio Lower Upper
83 100
55 79.2 63.5 95.3
98 48.3 38.9 58.3

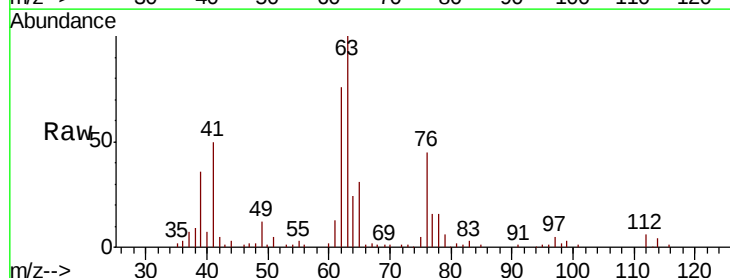


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

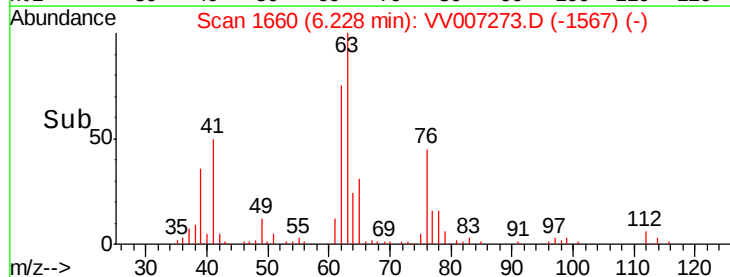
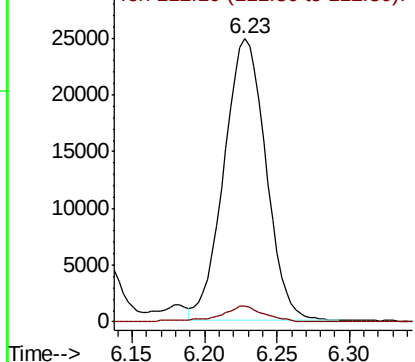


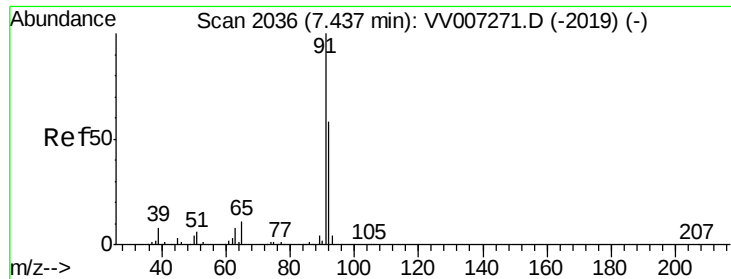
#37
1,2-Dichloropropane
Concen: 1.98 ug/L
RT: 6.23 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

Tgt Ion: 63 Resp: 49749
Ion Ratio Lower Upper
63 100
112 5.8 3.9 5.9



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 7.96 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampled :

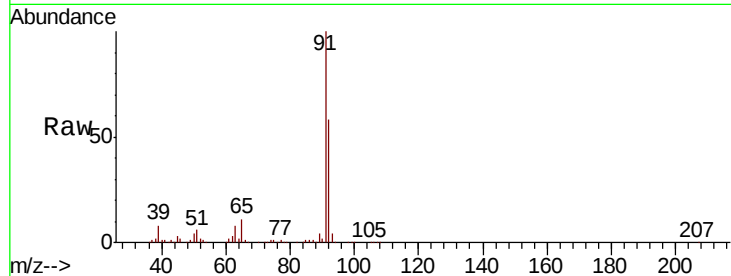
GAB87

Tot Ion: 91 Resp: 771135

Ion Ratio Lower Upper

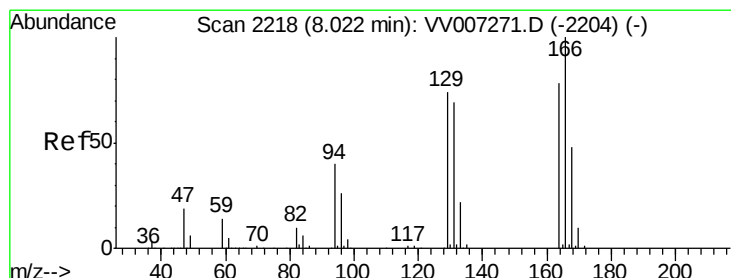
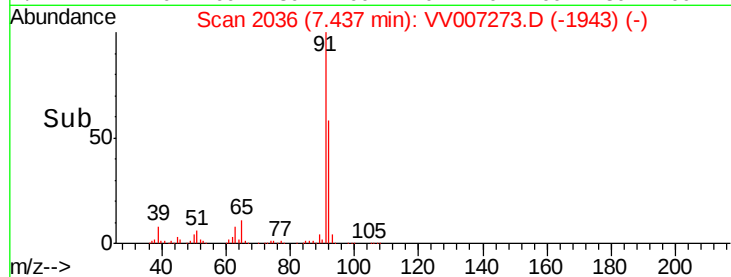
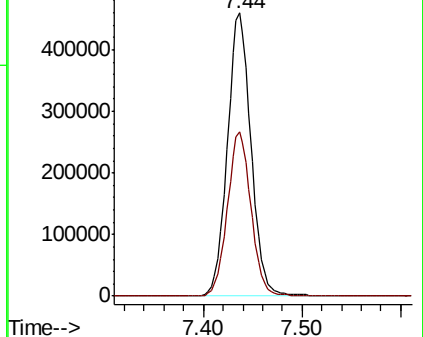
91 100

92 57.9 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV007273.D (-1943) (-)

Ion 92.15 (91.85 to 92.85): VV007273.D (-1943) (-)



#47

Tetrachloroethene

Concen: 7.72 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Tgt Ion: 164 Resp: 158851

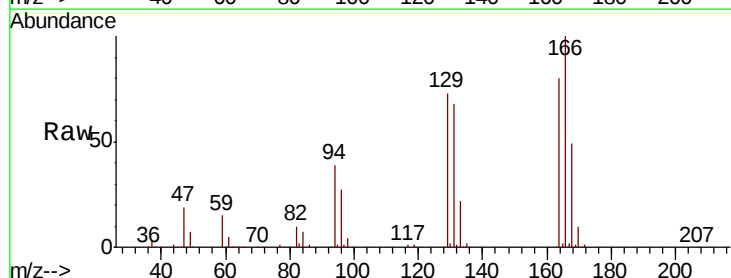
Ion Ratio Lower Upper

164 100

129 91.2 63.8 118.4

131 85.1 60.3 112.1

166 124.6 89.5 166.1

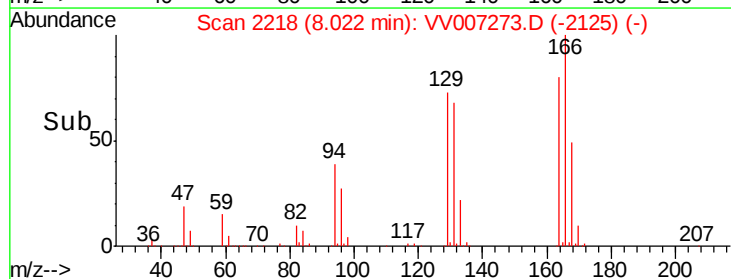
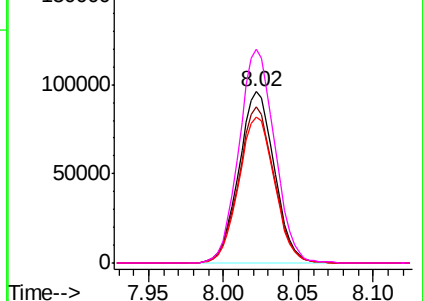


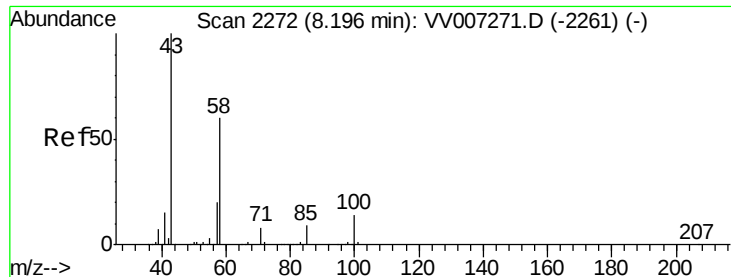
Abundance Ion 163.90 (163.60 to 164.60): VV007273.D (-2125) (-)

Ion 128.95 (128.65 to 129.65): VV007273.D (-2125) (-)

Ion 130.95 (130.65 to 131.65): VV007273.D (-2125) (-)

Ion 165.90 (165.60 to 166.60): VV007273.D (-2125) (-)

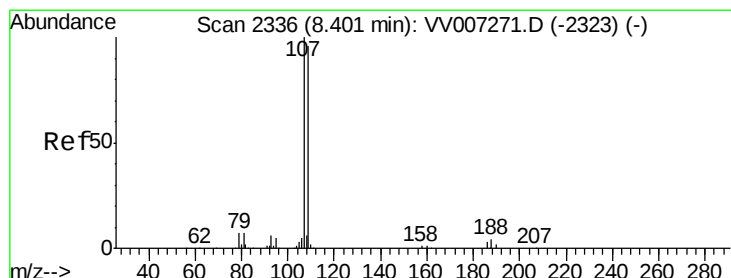
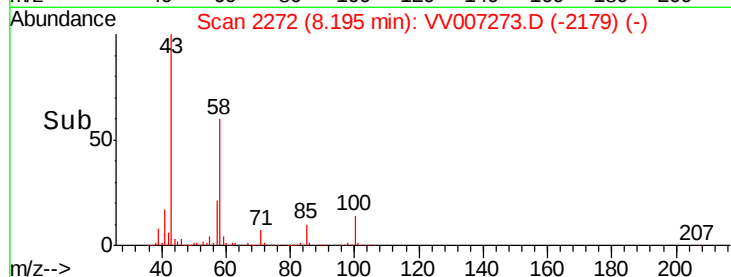
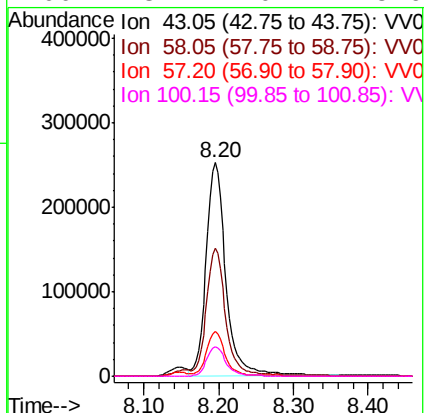
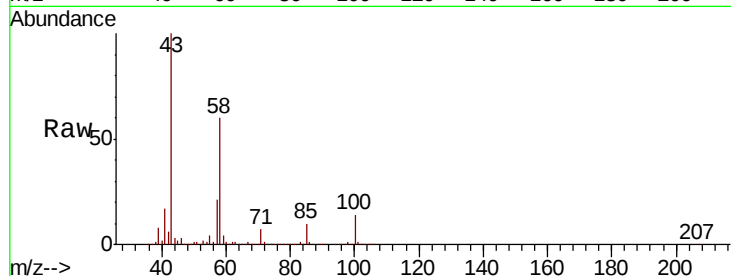




#48
 2-Hexanone
 Concen: 56.85 ug/L
 RT: 8.20 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

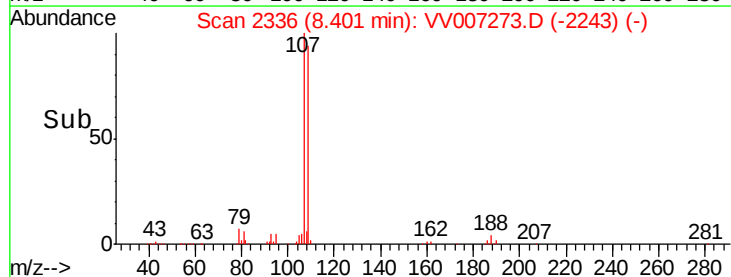
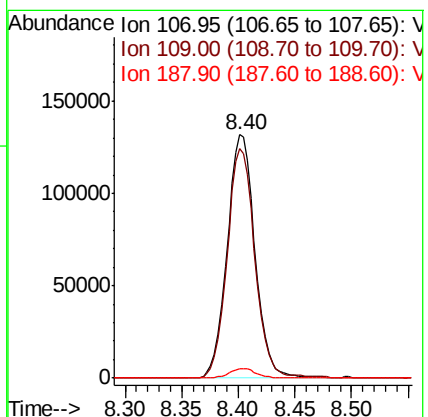
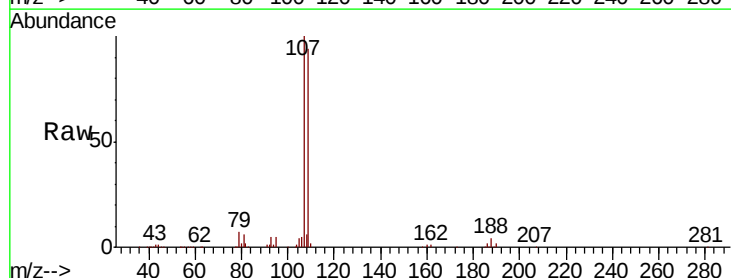
Instrument :
 MSVOA_V
 ClientSampleId :
 GAB87

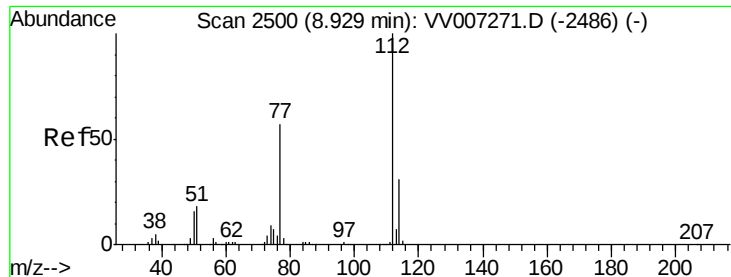
Tot Ion:	43	Resp:	462118
Ion	Ratio	Lower	Upper
43	100		
58	56.7	46.6	69.8
57	20.3	15.4	23.0
100	13.1	10.4	15.6



#50
 1,2-Dibromoethane
 Concen: 15.45 ug/L
 RT: 8.40 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

Tgt Ion:	107	Resp:	225298
Ion	Ratio	Lower	Upper
107	100		
109	94.4	65.5	121.6
188	3.9	3.0	4.6





#51

Chlorobenzene

Concen: 10.17 ug/L

RT: 8.93 min Scan# 2500

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampleId :

GAB87

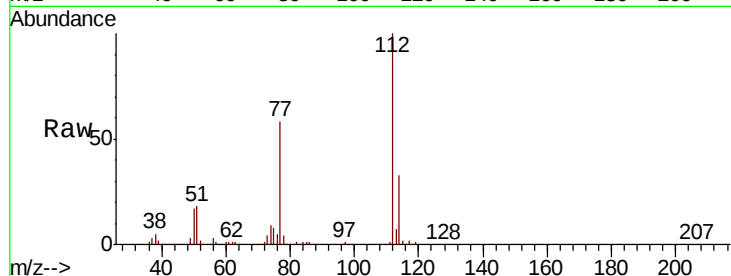
Tot Ion:112 Resp: 643406

Ion Ratio Lower Upper

112 100

114 32.8 22.7 42.3

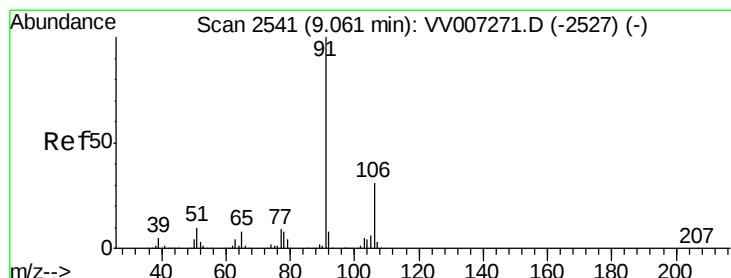
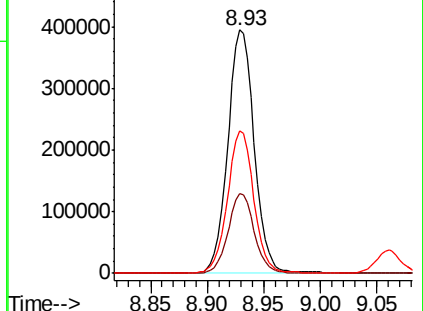
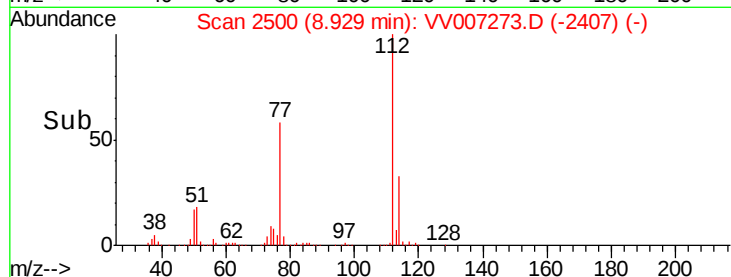
77 58.3 46.7 70.1



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: 6.25 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV007273.D

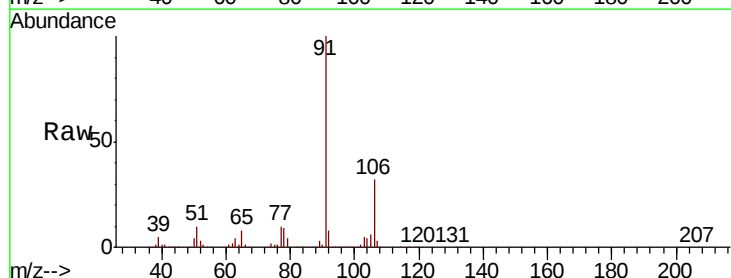
Acq: 30 Aug 2018 20:19

Tgt Ion: 91 Resp: 610355

Ion Ratio Lower Upper

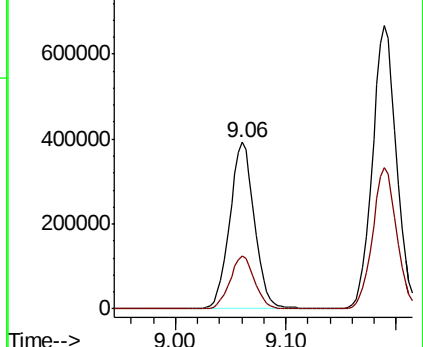
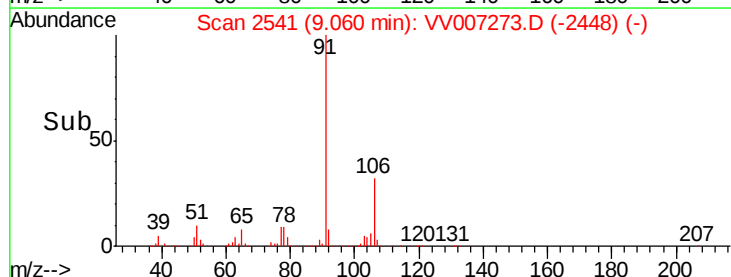
91 100

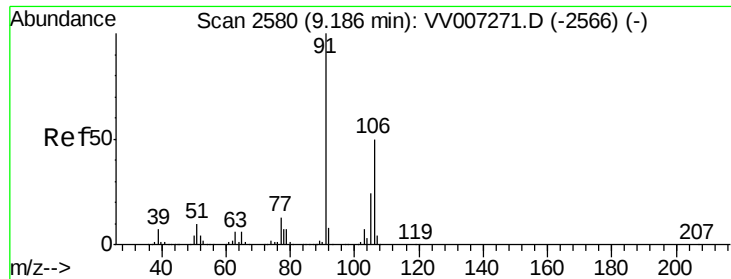
106 31.6 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V

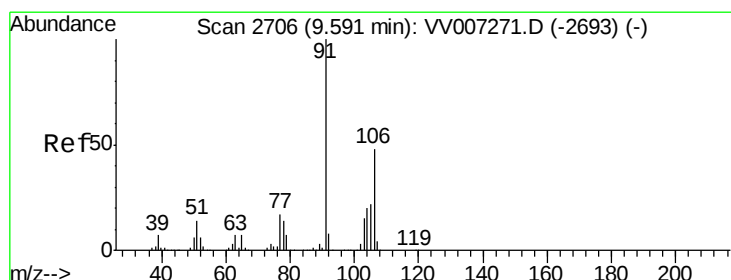
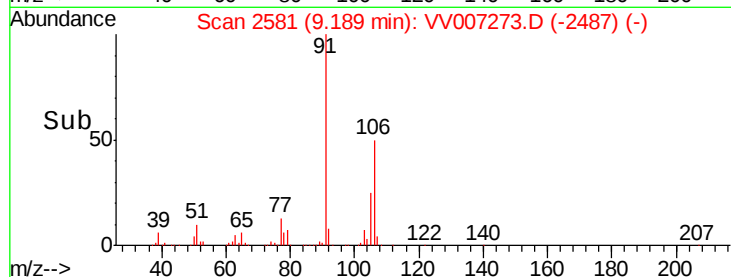
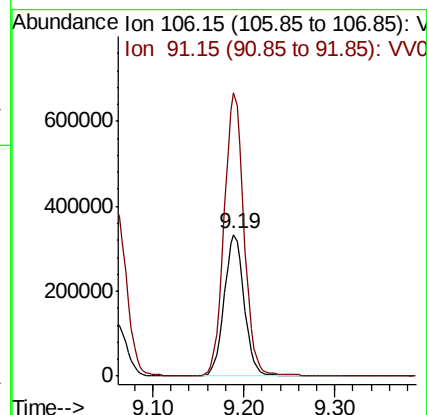
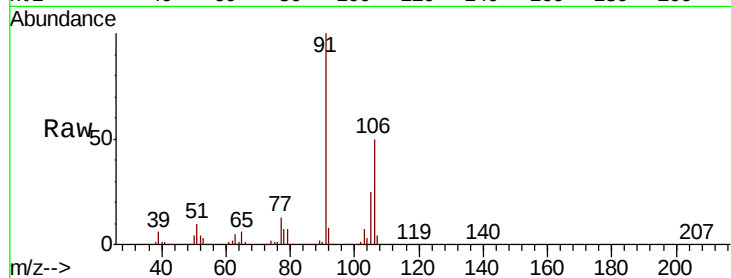




#53
m,p-xylene
Concen: 13.44 ug/L
RT: 9.19 min Scan# 2581
Delta R.T. 0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

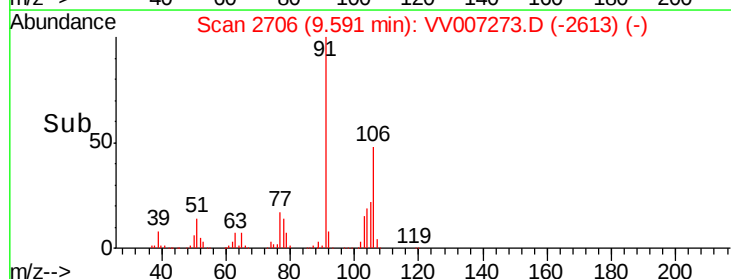
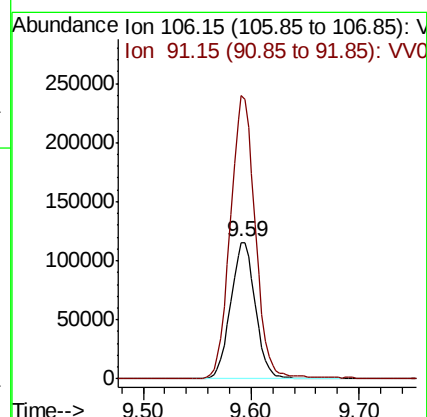
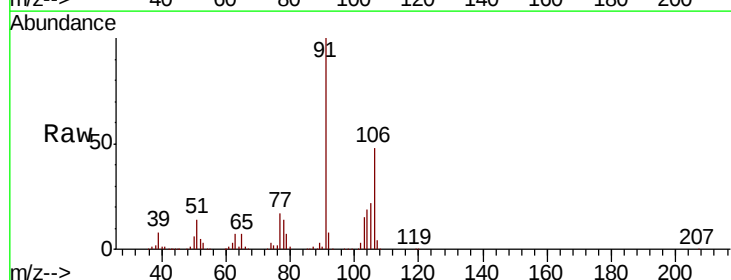
Instrument :
MSVOA_V
ClientSampleId :
GAB87

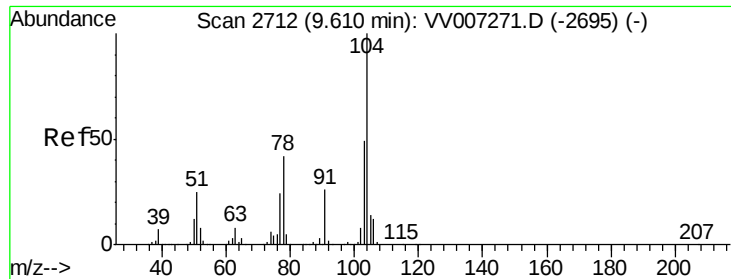
Tot Ion:106 Resp: 507729
Ion Ratio Lower Upper
106 100
91 200.0 135.9 252.3



#54
o-xylene
Concen: 5.28 ug/L
RT: 9.59 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VV007273.D
Acq: 30 Aug 2018 20:19

Tgt Ion:106 Resp: 185915
Ion Ratio Lower Upper
106 100
91 207.1 146.2 271.4





#55

Stvrene

Concen: 5.39 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampleId :

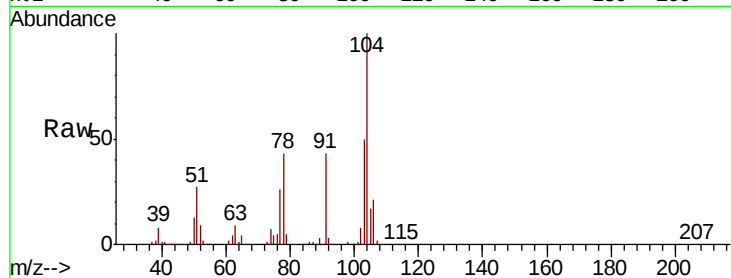
GAB87

Tot Ion:104 Resp: 330010

Ion Ratio Lower Upper

104 100

78 42.7 28.8 53.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

9.61

200000

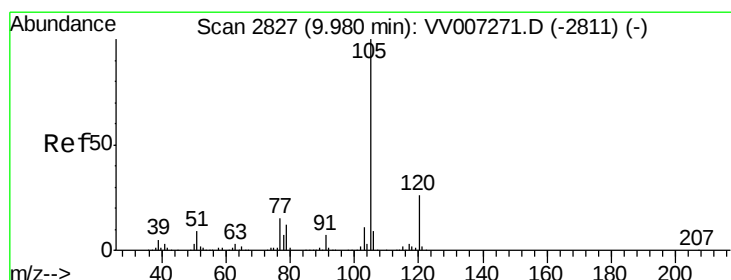
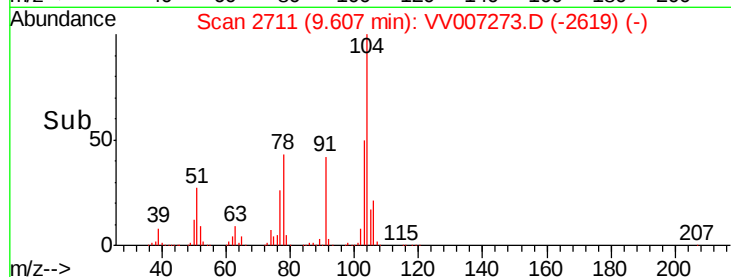
150000

100000

50000

0

Time--> 9.50 9.60 9.70



#56

Isopropylbenzene

Concen: 3.11 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

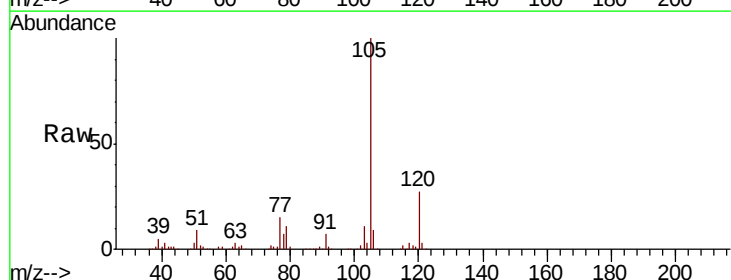
Tgt Ion:105 Resp: 283251

Ion Ratio Lower Upper

105 100

120 26.9 21.2 31.8

77 15.5 12.2 18.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0

9.98

250000

200000

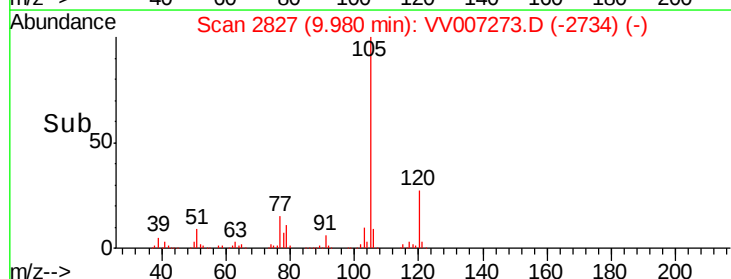
150000

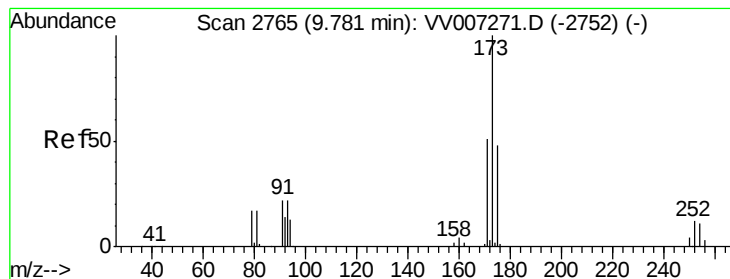
100000

50000

0

Time--> 9.90 9.95 10.00 10.05





#61

Bromoform

Concen: 5.20 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampleId :

GAB87

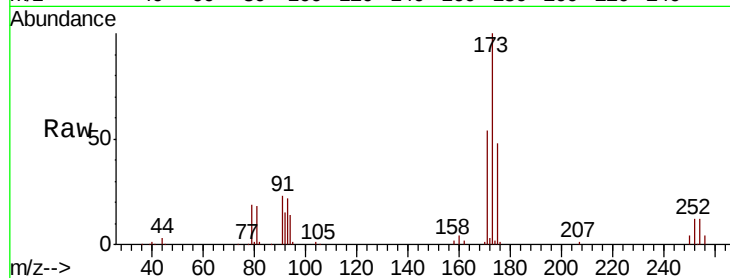
Tot Ion:173 Resp: 50461

Ion Ratio Lower Upper

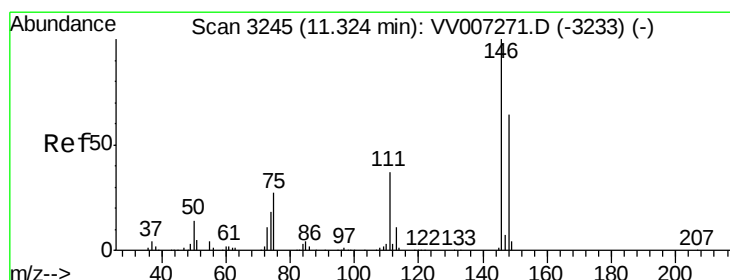
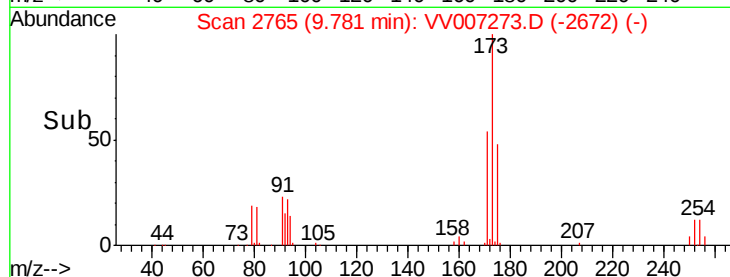
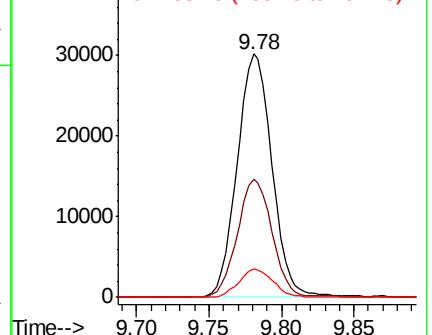
173 100

175 48.3 38.8 58.2

254 11.3 9.0 13.6



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#63

1,4-Dichlorobenzene

Concen: 4.25 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

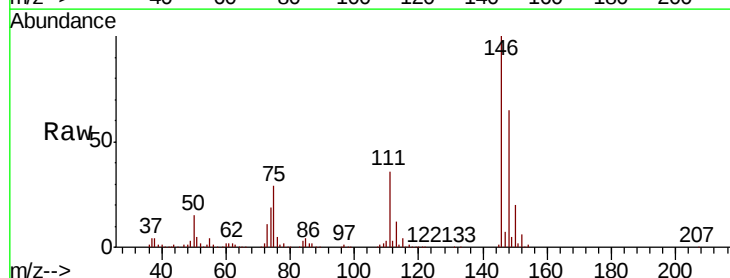
Tgt Ion:146 Resp: 181822

Ion Ratio Lower Upper

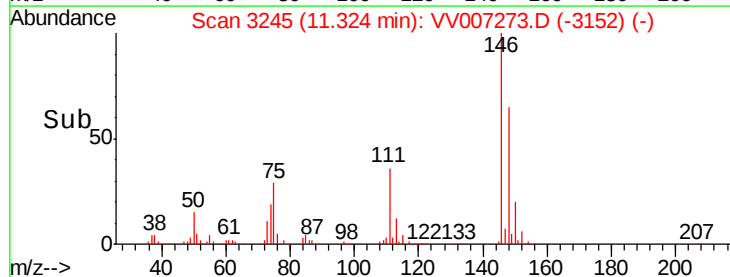
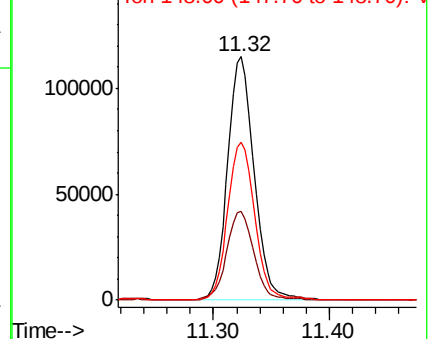
146 100

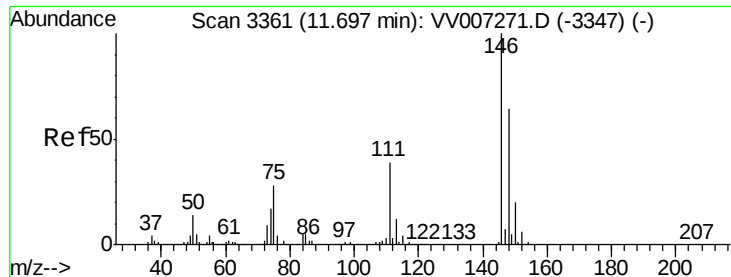
111 36.2 25.6 47.6

148 64.9 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 12.64 ug/L

RT: 11.69 min Scan# 3360

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

Instrument :

MSVOA_V

ClientSampleId :

GAB87

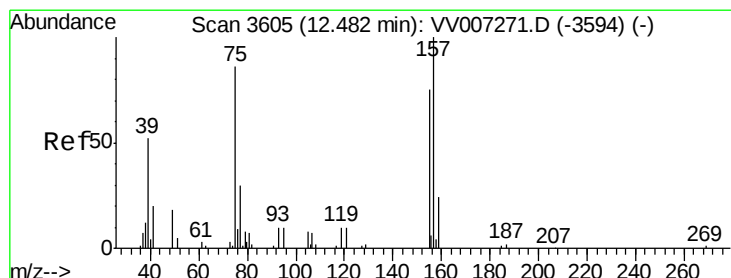
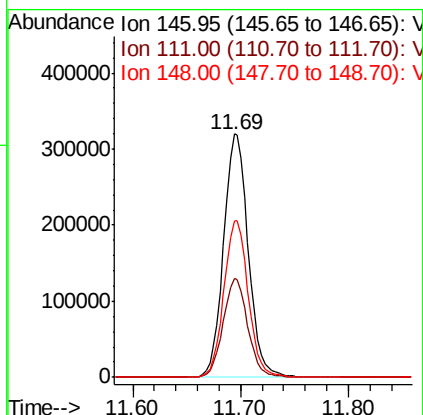
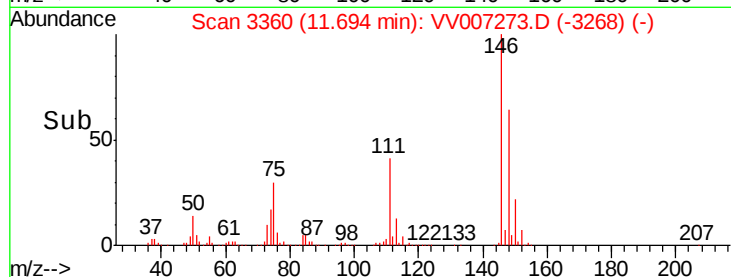
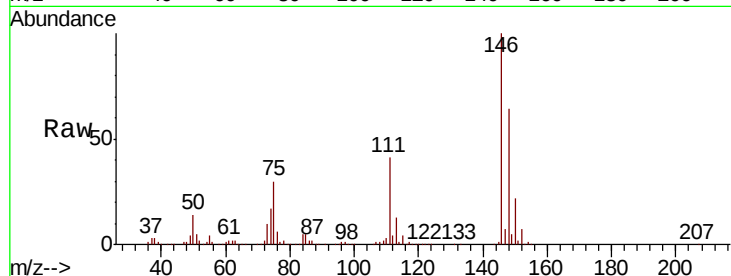
Tot Ion:146 Resp: 507686

Ion Ratio Lower Upper

146 100

111 40.6 32.1 48.1

148 64.2 50.8 76.2



#66

1,2-Dibromo-3-chloropropane

Concen: 4.28 ug/L

RT: 12.48 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VV007273.D

Acq: 30 Aug 2018 20:19

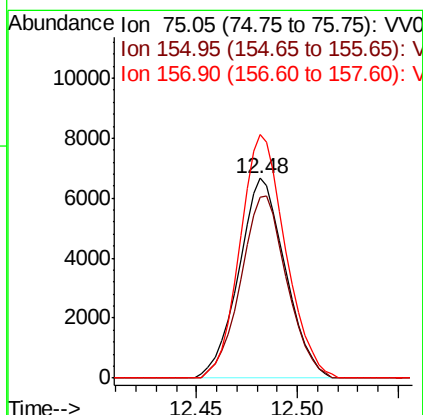
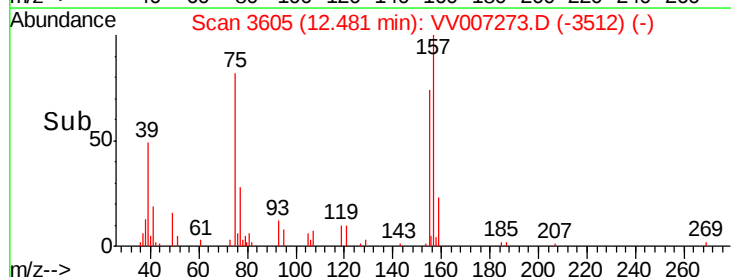
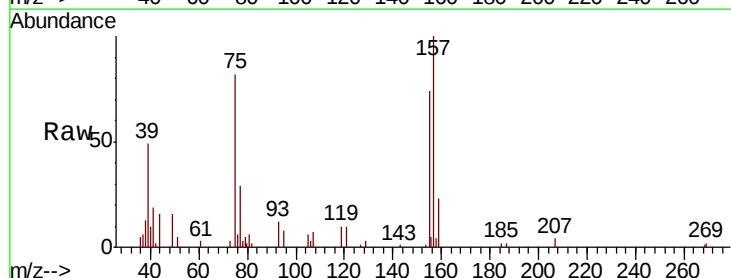
Tgt Ion: 75 Resp: 10787

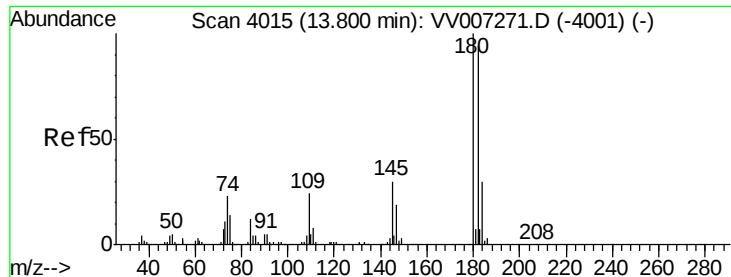
Ion Ratio Lower Upper

75 100

155 90.3 69.5 104.3

157 121.9 89.1 133.7





#70
 1,2,3-Trichlorobenzene
 Concen: 10.07 ug/L
 RT: 13.80 min Scan# 4015
 Delta R.T. -0.00 min
 Lab File: VV007273.D
 Acq: 30 Aug 2018 20:19

Instrument :
 MSVOA_V
 ClientSampleId :
 GAB87

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.6	114.8
145	30.8	24.8	37.2

