

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017024.D
 Acq On : 22 Jun 2020 18:10
 Operator : SY/MD
 Sample : L3067-03
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 23 04:56:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 04:53:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	190326	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	172901	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	91620	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64332	5.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.60%
7) Chloroethane-d5	1.58	69	48031	5.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	115.60%
11) 1,1-Dichloroethene-d2	2.12	63	88787	4.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.60%
20) 2-Butanone-d5	3.93	46	140352	48.21	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.42%
24) Chloroform-d	4.38	84	135342	5.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.80%
26) 1,2-Dichloroethane-d4	5.06	65	72002	5.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.20%
32) Benzene-d6	5.07	84	256741	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	114.60%
36) 1,2-Dichloropropane-d6	6.10	67	76009	5.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.20%
41) Toluene-d8	7.34	98	230966	5.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.80%
45) trans-1,3-Dichloropropene-	7.64	79	21597	3.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.20%
48) 2-Hexanone-d5	8.11	63	104939	49.24	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.48%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	50119	5.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	91561	5.41	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.42	64	204574	29.639	ug/L #	50
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	794	0.079	ug/L #	24
12) 1,1-Dichloroethene	2.13	96	1138	0.125	ug/L #	1
13) Acetone	2.21	43	10149	6.896	ug/L	81
14) Carbon disulfide	2.31	76	5204	0.190	ug/L	97
19) 1,1-Dichloroethane	3.21	63	18313	0.842	ug/L	92
22) cis-1,2-Dichloroethene	3.94	96	6005	0.454	ug/L	96
29) 1,1,1-Trichloroethane	4.63	97	3393	0.164	ug/L #	88
30) Cyclohexane	4.70	56	7291	0.370	ug/L	99
33) Benzene	5.13	78	44943	0.993	ug/L	100
35) Methylcyclohexane	6.10	83	20681	1.003	ug/L #	29
37) 1,2-Dichloropropane	6.09	63	9755	0.870	ug/L #	84
38) Bromodichloromethane	6.34	83	551822	36.243	ug/L #	32
40) 4-Methyl-2-pentanone	7.16	43	7508414	1160.184	ug/L #	48
43) 1,3,5-Trimethylbenzene	10.50	105	6376	0.135	ug/L #	46
47) 1,1,2-Trichloroethane	7.81	97	1327	0.167	ug/L #	36
50) 2-Hexanone	8.16	43	2885	0.626	ug/L #	83

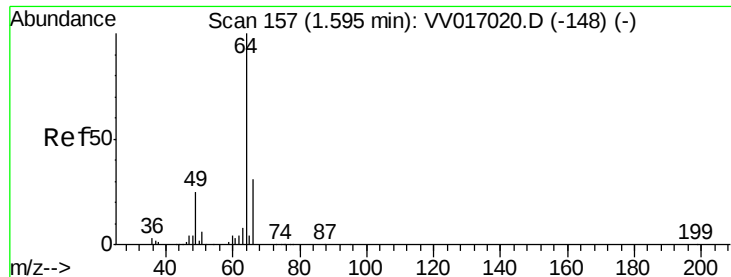
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	9.04	91	21647	0.385	ug/L	95
55) m,p-xylene	9.16	106	1666	0.076	ug/L	87
58) Isopropylbenzene	9.95	105	34268	0.605	ug/L	100
60) 1,1,2,2-Tetrachloroethane	10.26	83	4228	0.514	ug/L #	39
70) Naphthalene	13.53	128	5638	0.219	ug/L #	72

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



#8

Chloroethane

Concen: 29.639 ug/L

RT: 1.42 min Scan# 102

Delta R.T. -0.18 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

Instrument :

MSVOA_V

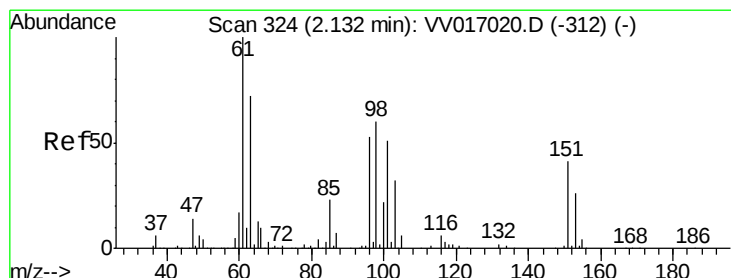
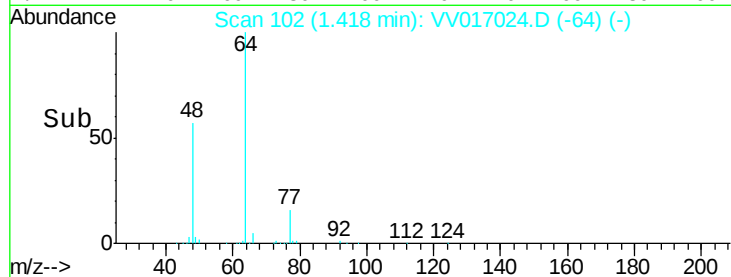
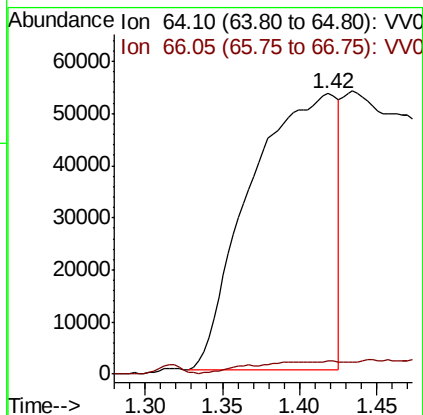
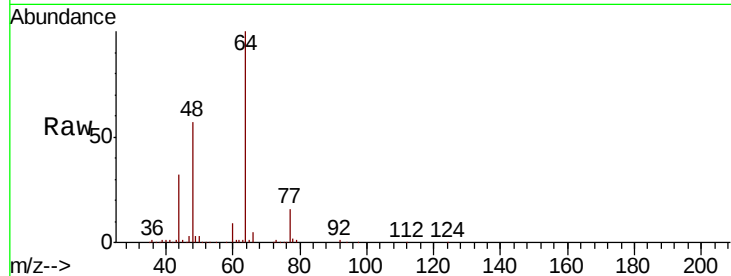
ClientSampleId :

Tot Ion: 64 Resp: 204574

Ion Ratio Lower Upper

64 100

66 4.5 22.8 42.4#



#10

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

Concen: 0.079 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

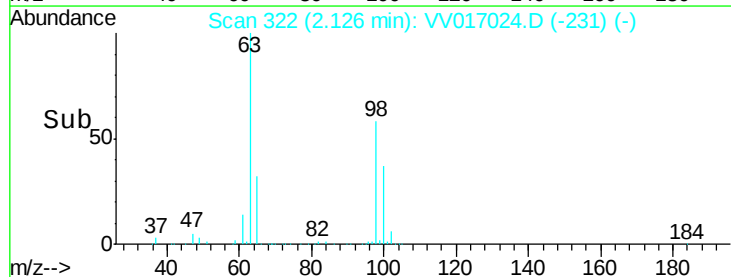
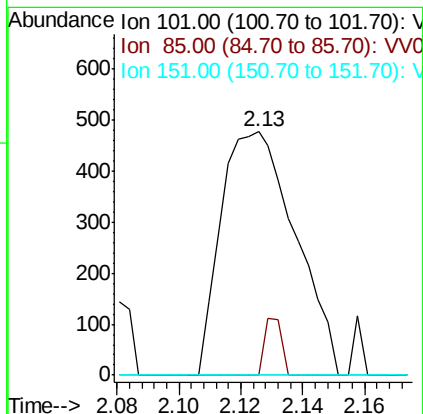
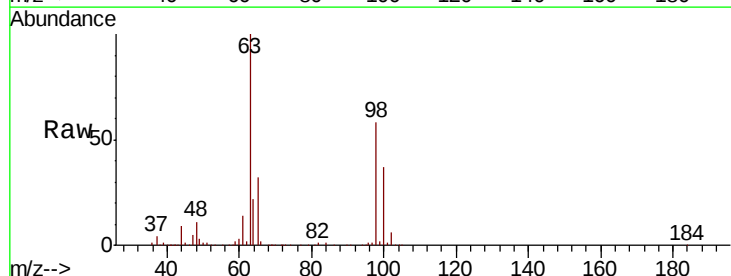
Tgt Ion:101 Resp: 794

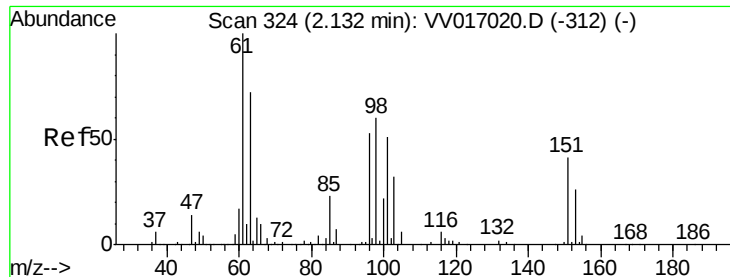
Ion Ratio Lower Upper

101 100

85 5.4 35.4 53.2#

151 5.2 63.9 95.9#

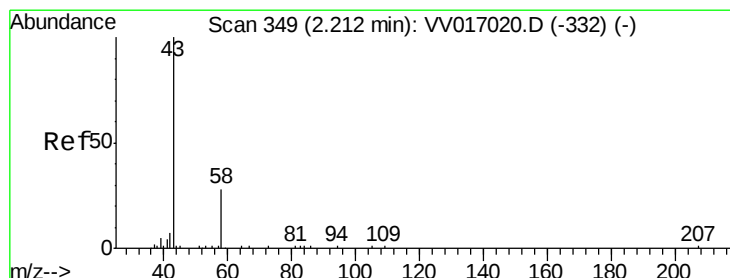
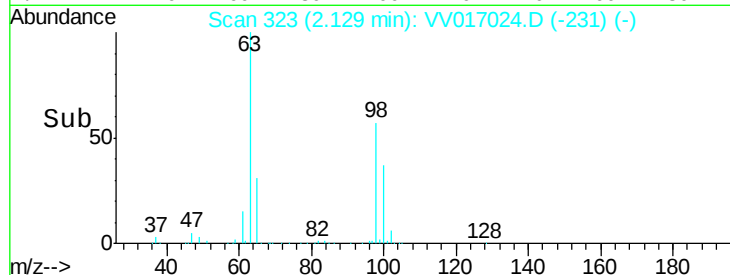
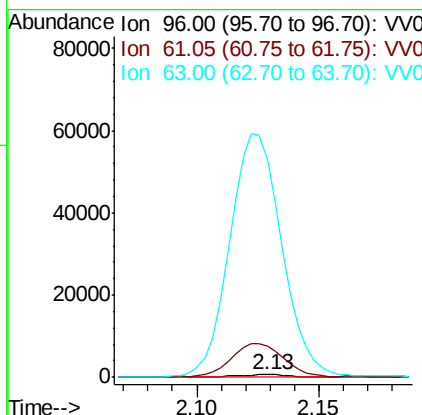
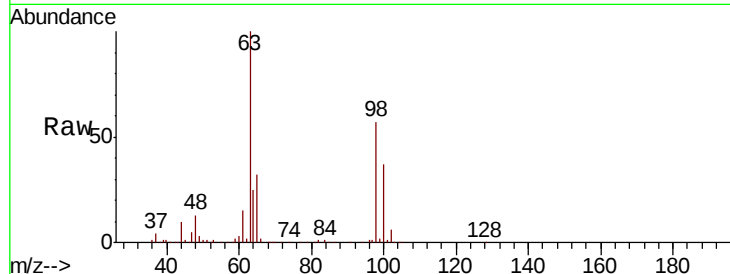




#12
 1,1-Dichloroethene
 Concen: 0.125 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. -0.00 min
 Lab File: VV017024.D
 Acq: 22 Jun 2020 18:10

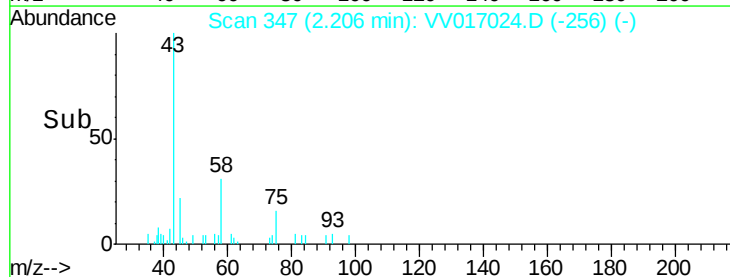
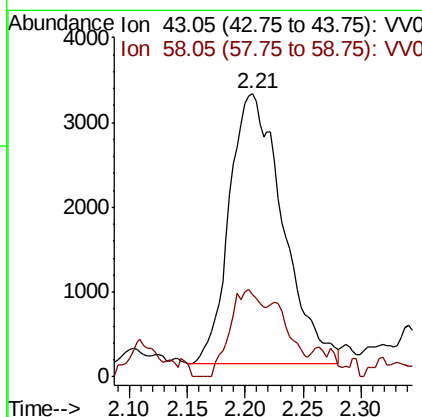
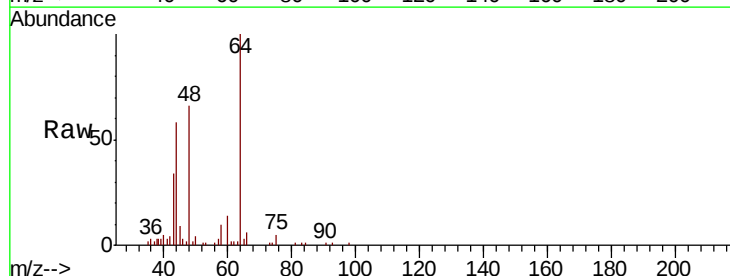
Instrument :
 MSVOA_V
 ClientSampleId :

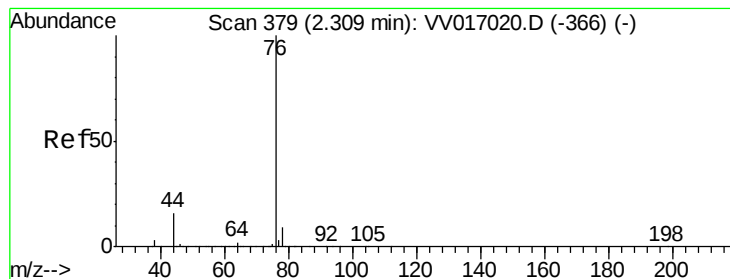
Tot Ion: 96 Resp: 1138
 Ion Ratio Lower Upper
 96 100
 61 1135.4 125.0 232.2#
 63 7786.4 109.8 203.8#



#13
 Acetone
 Concen: 6.896 ug/L
 RT: 2.21 min Scan# 347
 Delta R.T. -0.01 min
 Lab File: VV017024.D
 Acq: 22 Jun 2020 18:10

Tgt Ion: 43 Resp: 10149
 Ion Ratio Lower Upper
 43 100
 58 18.8 0.0 58.4





#14

Carbon disulfide

Concen: 0.190 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

Instrument :

MSVOA_V

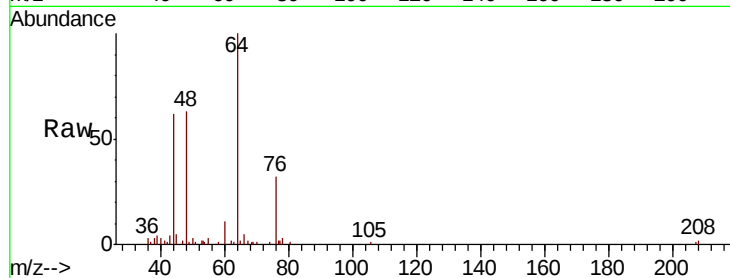
ClientSampleId :

Tot Ion: 76 Resp: 5204

Ion Ratio Lower Upper

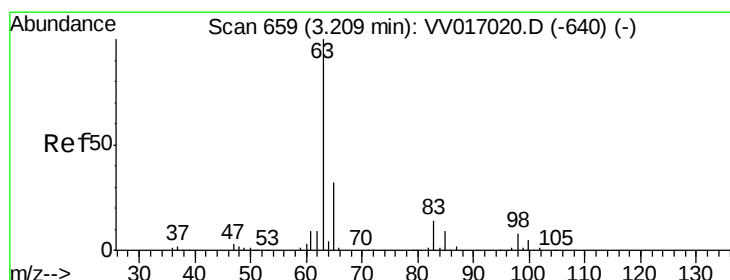
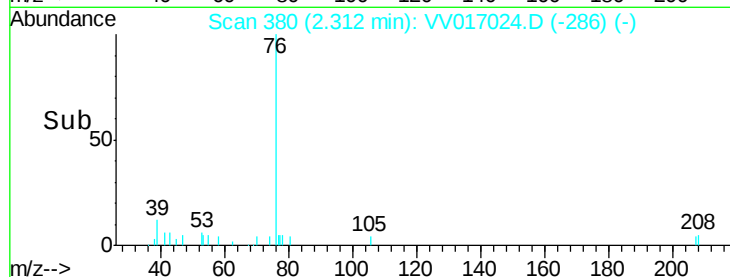
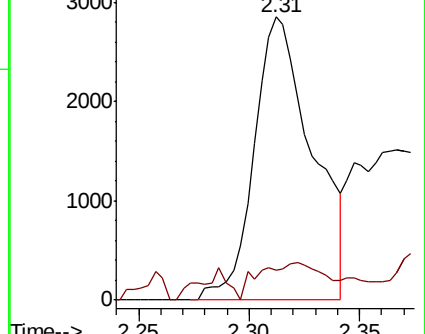
76 100

78 10.7 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#19

1,1-Dichloroethane

Concen: 0.842 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

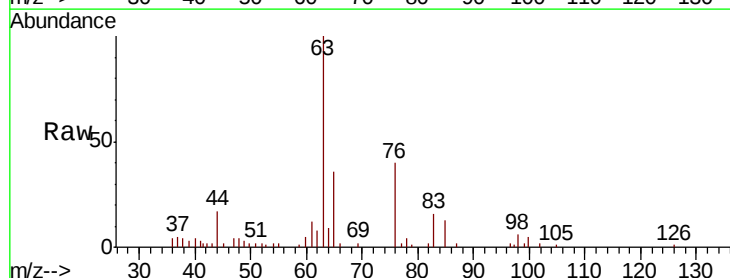
Tgt Ion: 63 Resp: 18313

Ion Ratio Lower Upper

63 100

65 36.2 21.8 40.4

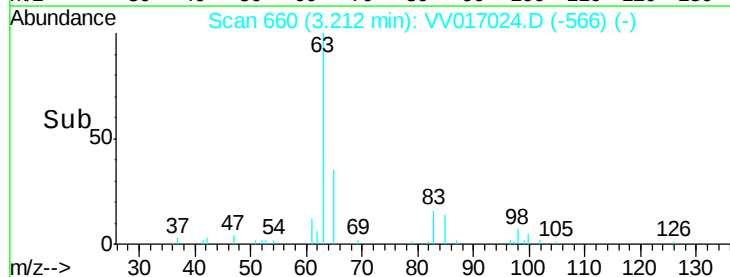
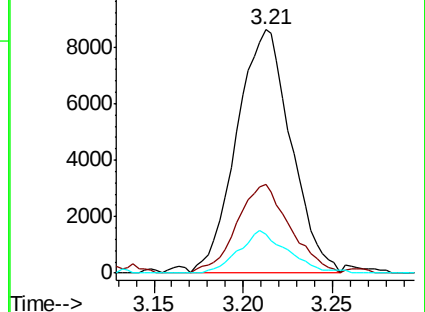
83 15.7 9.7 17.9

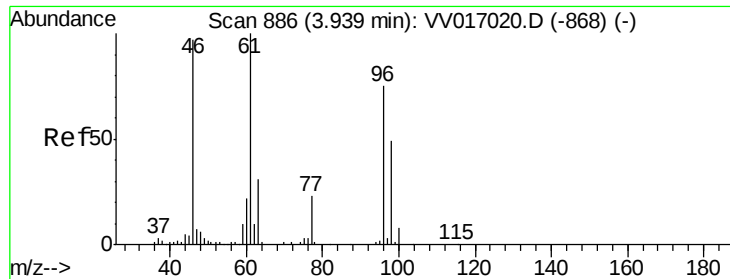


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



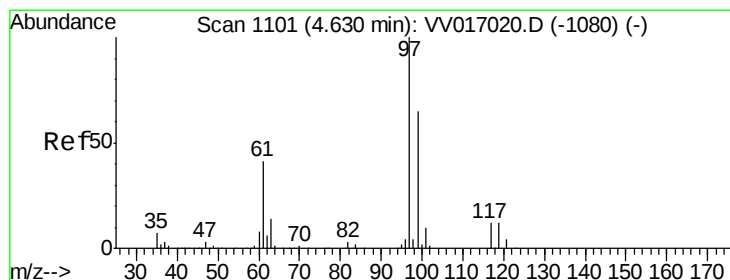
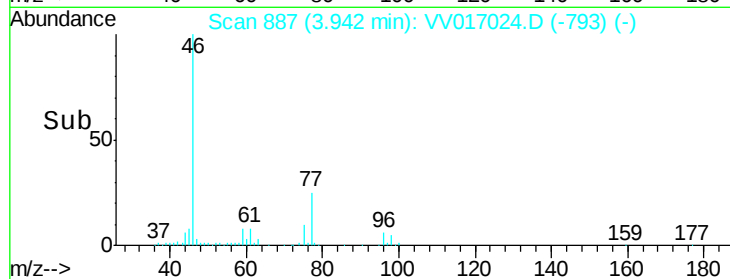
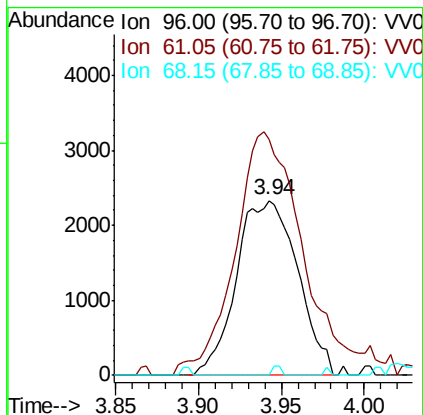
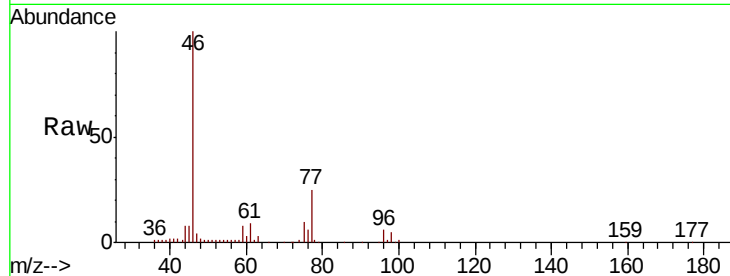


#22

cis-1,2-Dichloroethene
 Concen: 0.454 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.00 min
 Lab File: VV017024.D
 Acq: 22 Jun 2020 18:10

Instrument :
 MSVOA_V
 ClientSampleId :

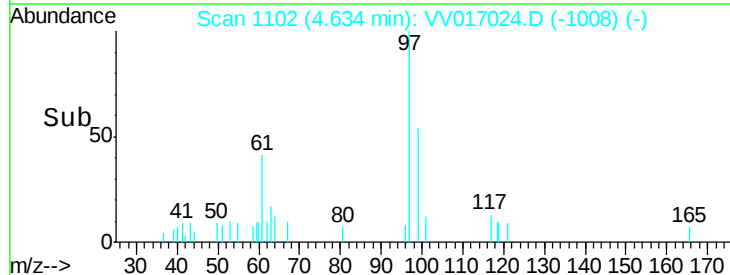
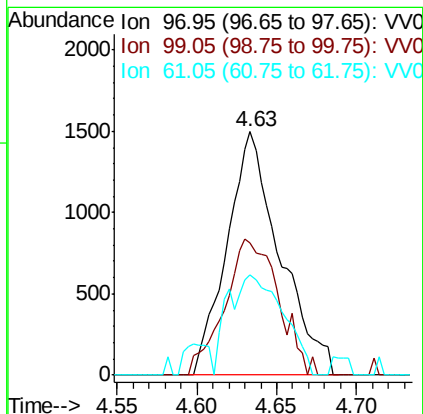
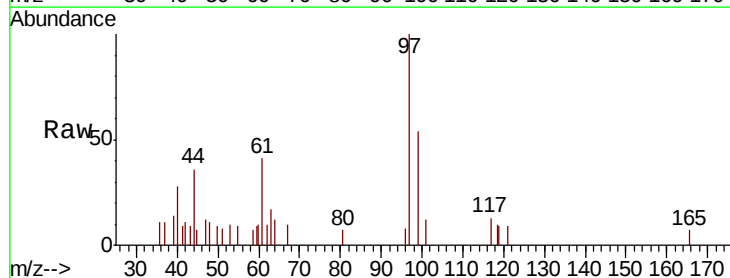
Tot Ion: 96 Resp: 6005
 Ion Ratio Lower Upper
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 61 135.0 91.0 169.0
 68 0.0 0.0 0.0

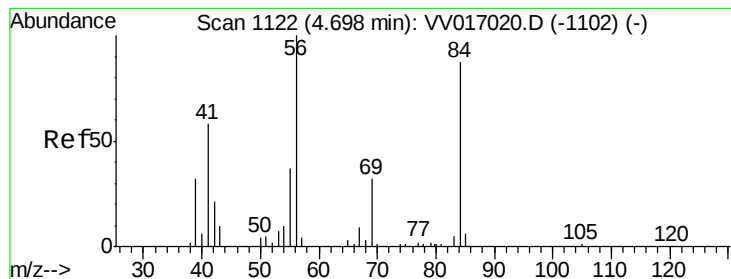


#29

1,1,1-Trichloroethane
 Concen: 0.164 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VV017024.D
 Acq: 22 Jun 2020 18:10

Tgt Ion: 97 Resp: 3393
 Ion Ratio Lower Upper
 97 100
 99 56.9 50.3 75.5
 61 33.5 36.0 54.0#





#30

Cyclohexane

Concen: 0.370 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

Instrument :
MSVOA_V
ClientSampleId :

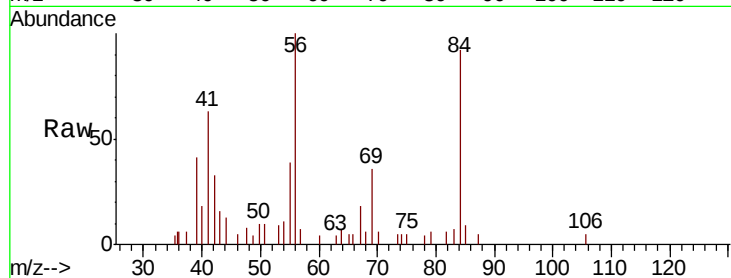
Tot Ion: 56 Resp: 7291

Ion Ratio Lower Upper

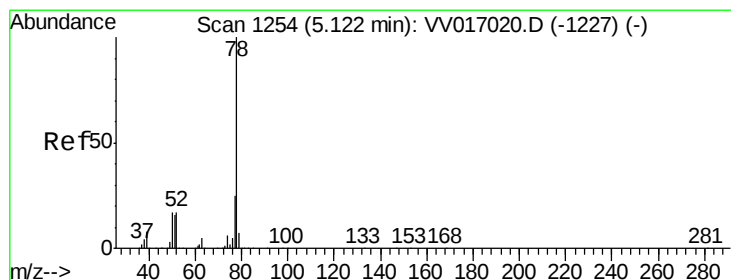
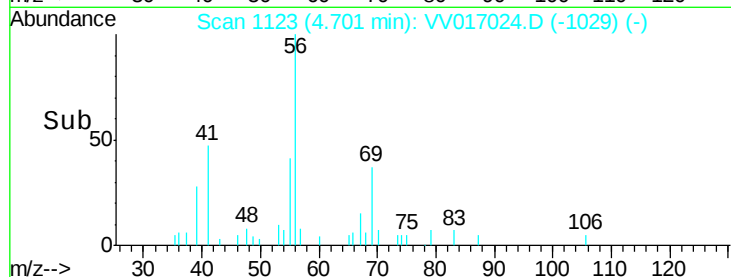
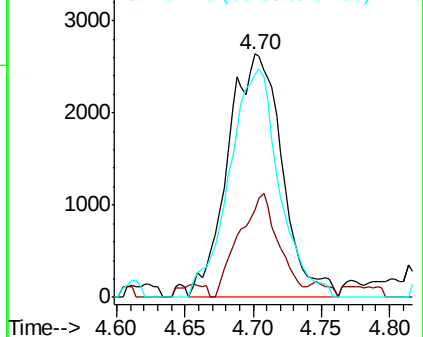
56 100

69 31.5 24.4 36.6

84 86.5 69.9 104.9



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



#33

Benzene

Concen: 0.993 ug/L

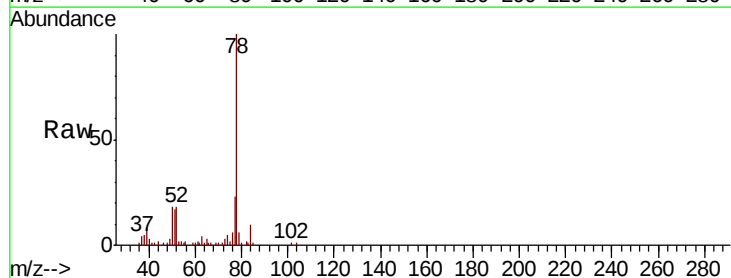
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

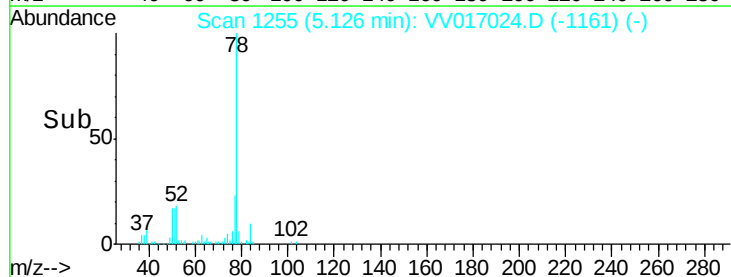
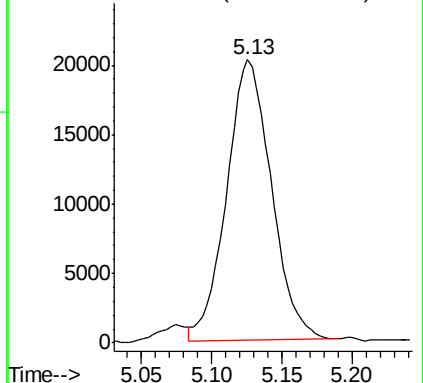
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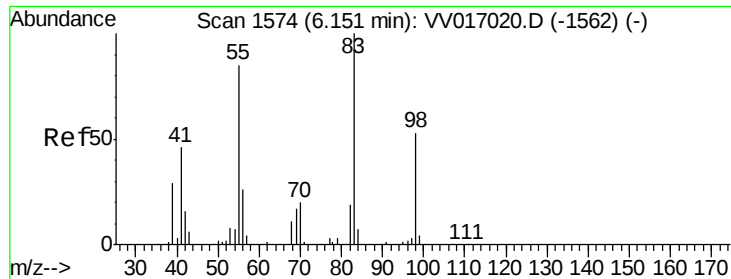
Acq: 22 Jun 2020 18:10

Tgt Ion: 78 Resp: 44943



Abundance Ion 78.10 (77.80 to 78.80): VV0

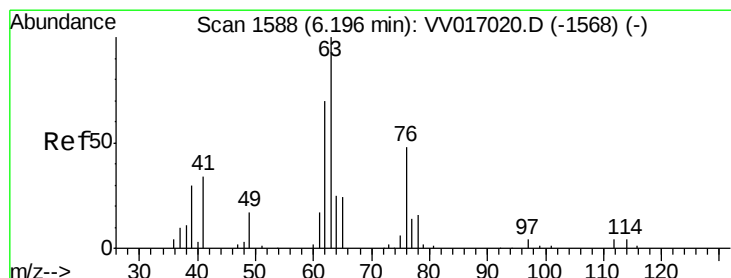
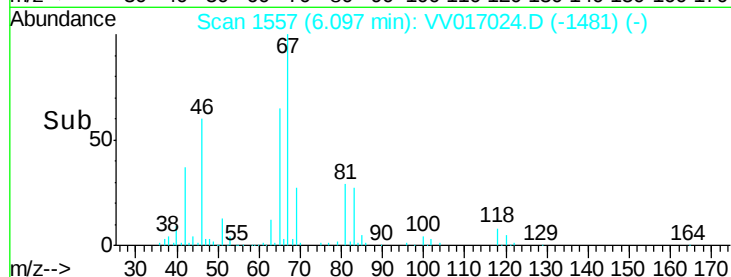
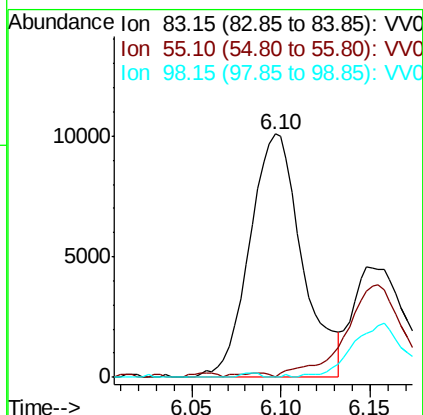
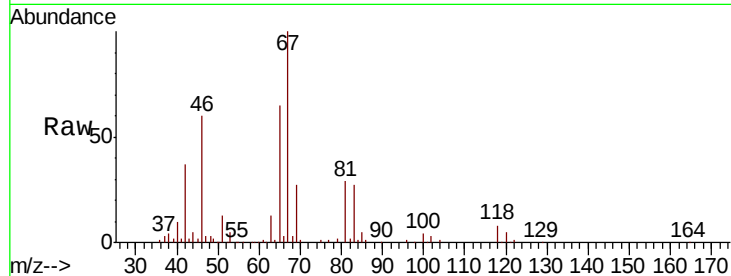




#35
Methvlcvclohexane
Concen: 1.003 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV017024.D
Acq: 22 Jun 2020 18:10

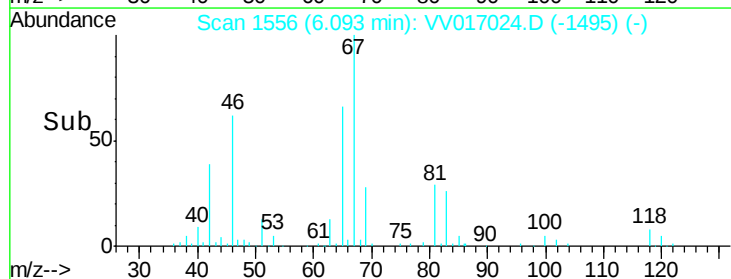
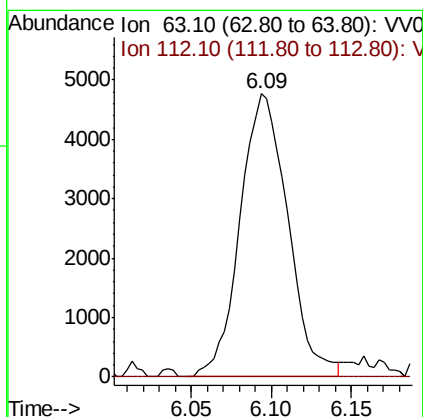
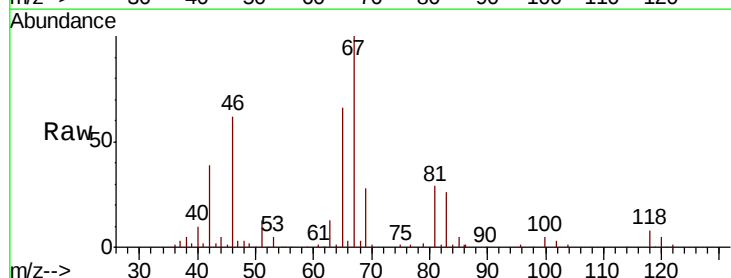
Instrument :
MSVOA_V
ClientSampleId :

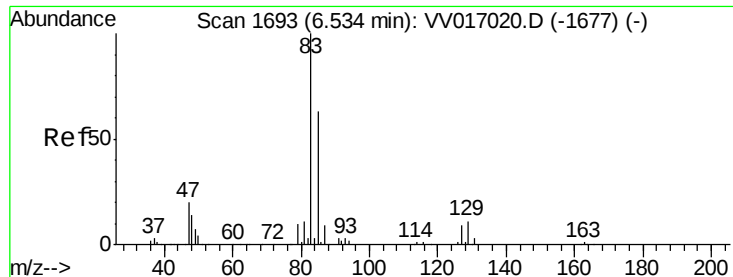
Tot Ion: 83 Resp: 20681
Ion Ratio Lower Upper
83 100
55 0.0 63.6 95.4#
98 22.2 38.8 58.2#



#37
1,2-Dichloropropane
Concen: 0.870 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV017024.D
Acq: 22 Jun 2020 18:10

Tgt Ion: 63 Resp: 9755
Ion Ratio Lower Upper
63 100
112 0.0 4.4 6.6#





#38

Bromodichloromethane

Concen: 36.243 ug/L

RT: 6.34 min Scan# 1634

Delta R.T. -0.19 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

Instrument :
MSVOA_V
ClientSampleId :

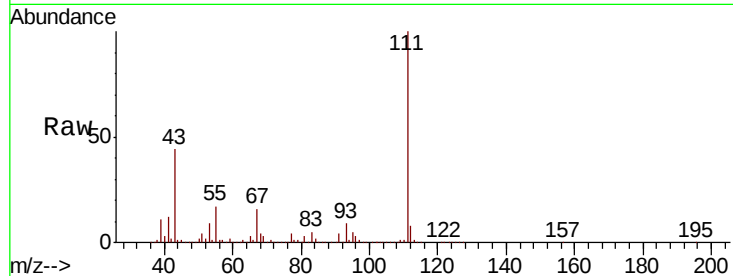
Tot Ion: 83 Resp: 551822

Ion Ratio Lower Upper

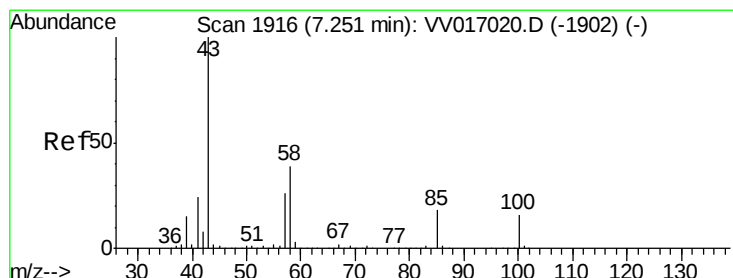
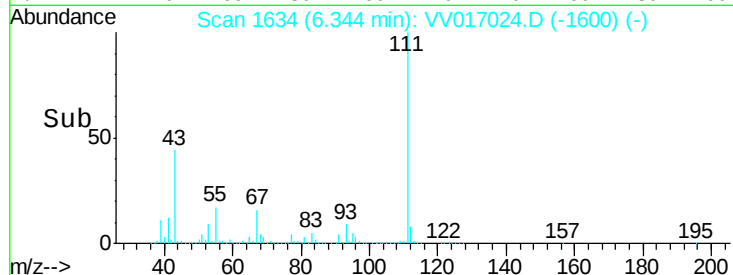
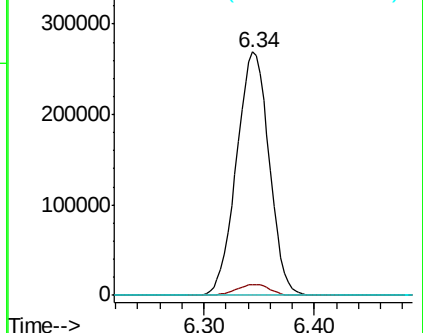
83 100

85 4.3 43.4 80.6#

127 0.2 7.9 11.9#



Abundance Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 126.90 (126.60 to 127.60): V



#40

4-Methyl-2-pentanone

Concen: 1160.184 ug/L

RT: 7.16 min Scan# 1889

Delta R.T. -0.09 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

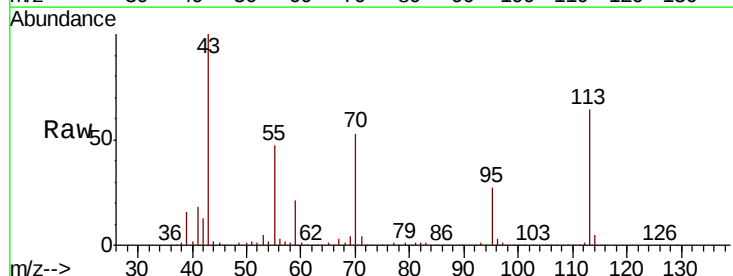
Tgt Ion: 43 Resp: 7508414

Ion Ratio Lower Upper

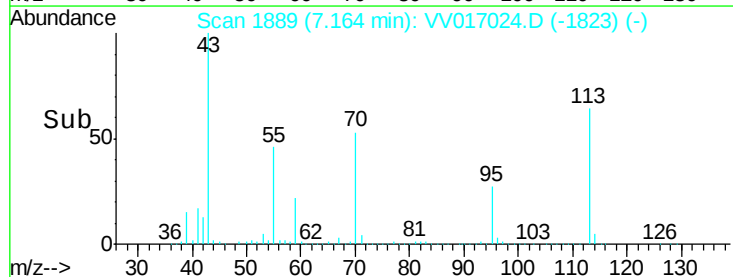
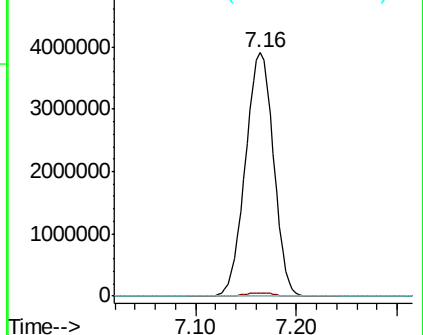
43 100

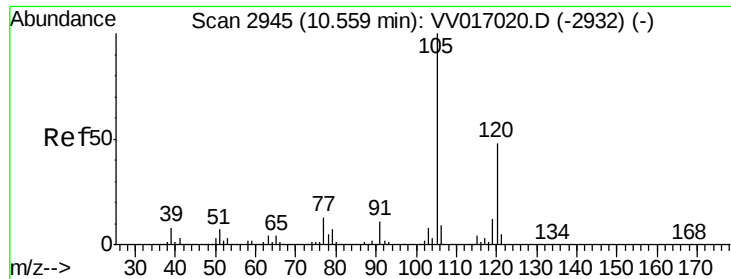
58 1.4 30.4 45.6#

100 2.0 12.7 19.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 100.15 (99.85 to 100.85): V

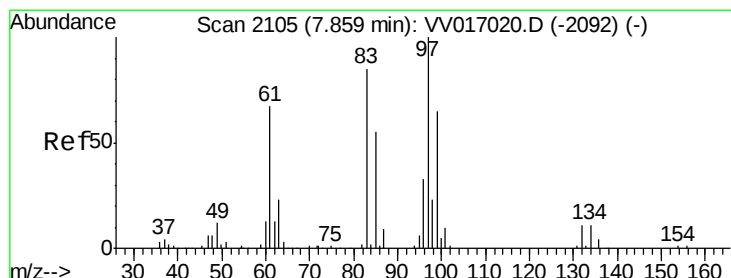
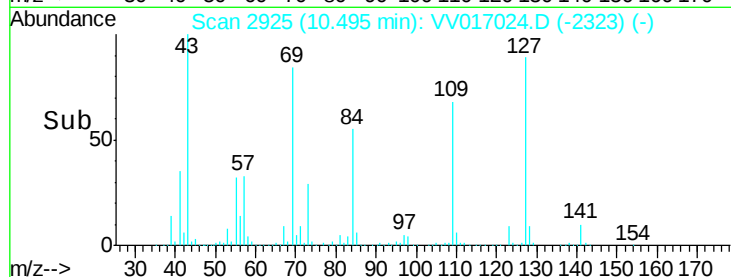
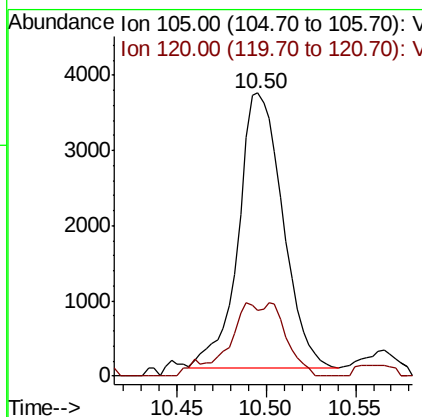
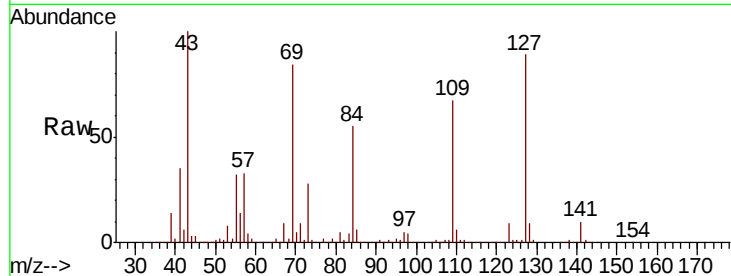




#43
 1,3,5-Trimethylbenzene
 Concen: 0.135 ug/L
 RT: 10.50 min Scan# 2925
 Delta R.T. -0.06 min
 Lab File: VV017024.D
 Acq: 22 Jun 2020 18:10

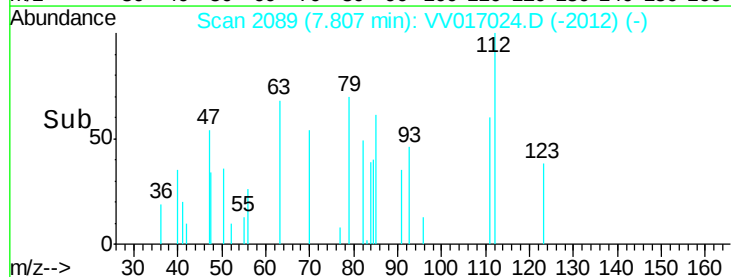
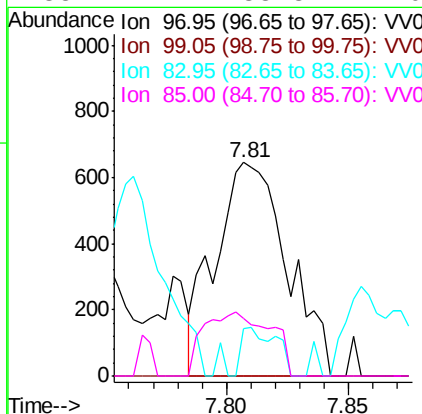
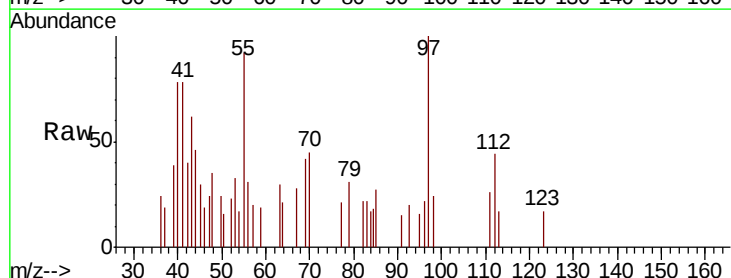
Instrument :
 MSVOA_V
 ClientSampled :

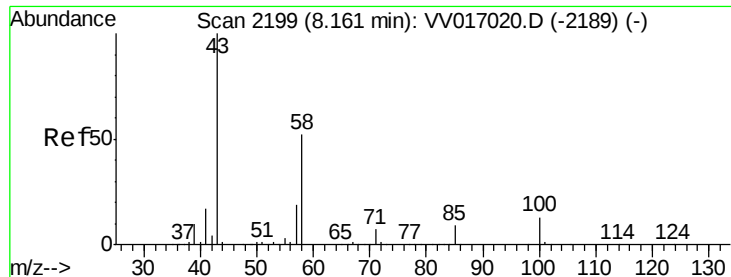
Tot Ion:105 Resp: 6376
 Ion Ratio Lower Upper
 105 100
 120 11.5 38.6 57.8#



#47
 1,1,2-Trichloroethane
 Concen: 0.167 ug/L
 RT: 7.81 min Scan# 2089
 Delta R.T. -0.05 min
 Lab File: VV017024.D
 Acq: 22 Jun 2020 18:10

Tgt Ion: 97 Resp: 1327
 Ion Ratio Lower Upper
 97 100
 99 0.0 43.6 81.0#
 83 22.0 57.4 106.6#
 85 27.1 38.8 72.0#

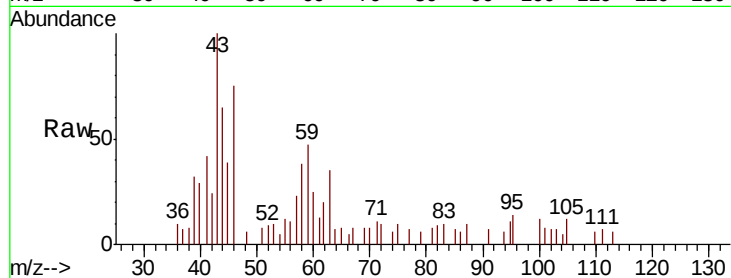




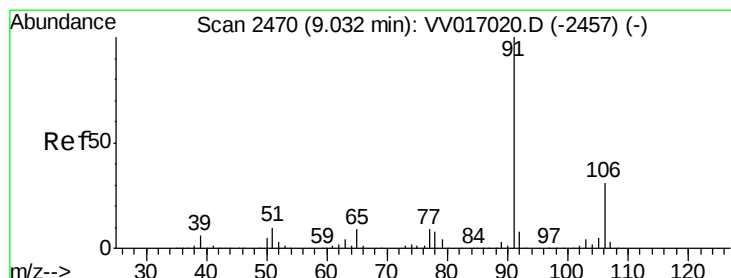
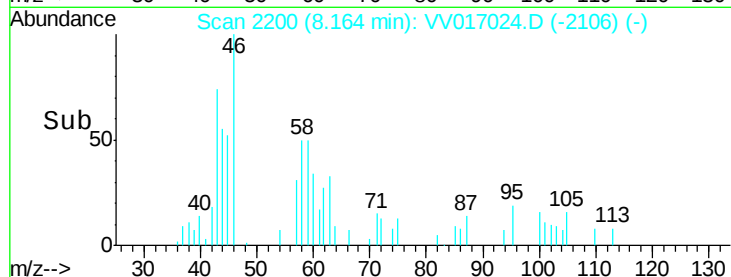
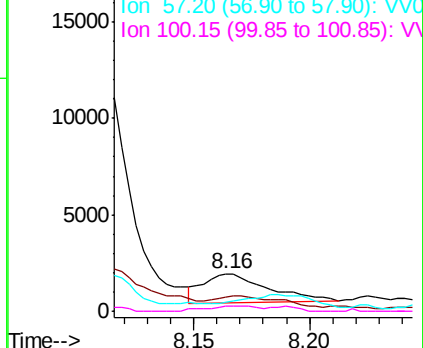
#50
2-Hexanone
Concen: 0.626 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV017024.D
Acq: 22 Jun 2020 18:10

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 2885
Ion Ratio Lower Upper
43 100
58 59.8 41.6 62.4
57 0.0 15.4 23.0#
100 13.6 10.1 15.1

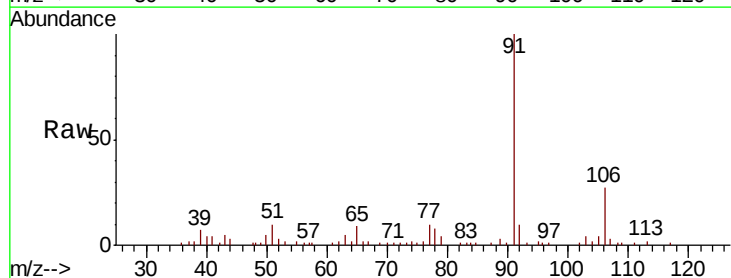


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

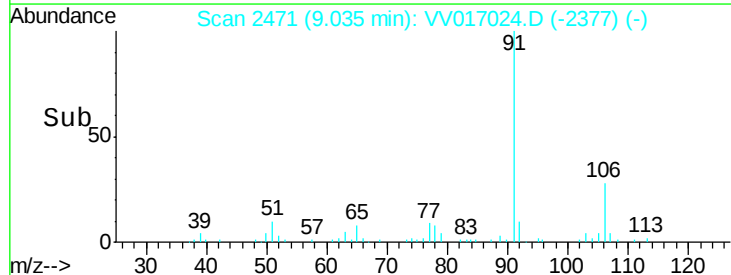
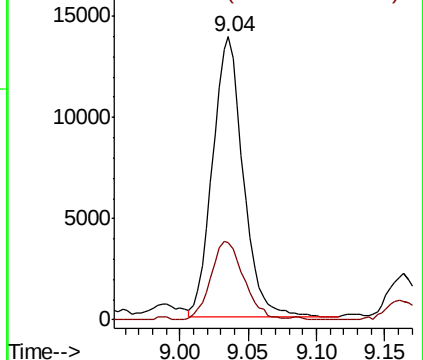


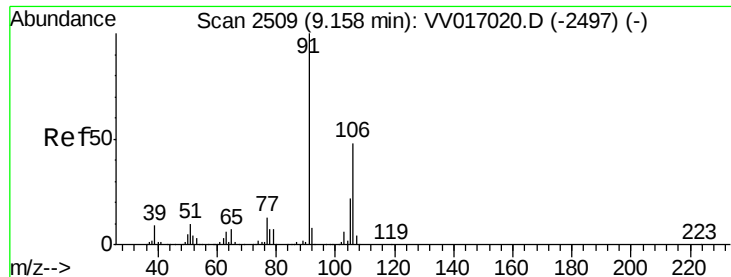
#54
Ethylbenzene
Concen: 0.385 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV017024.D
Acq: 22 Jun 2020 18:10

Tgt Ion: 91 Resp: 21647
Ion Ratio Lower Upper
91 100
106 27.4 21.1 39.1



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





#55

m,p-xylene

Concen: 0.076 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

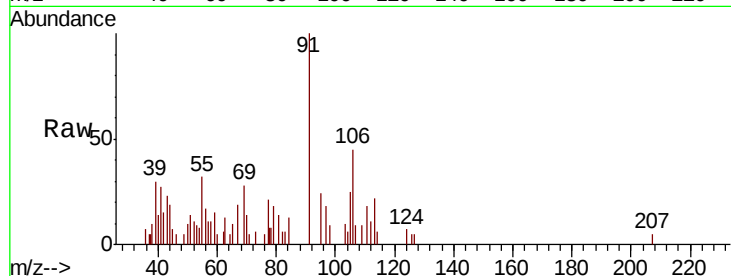
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 1666

Ion Ratio Lower Upper

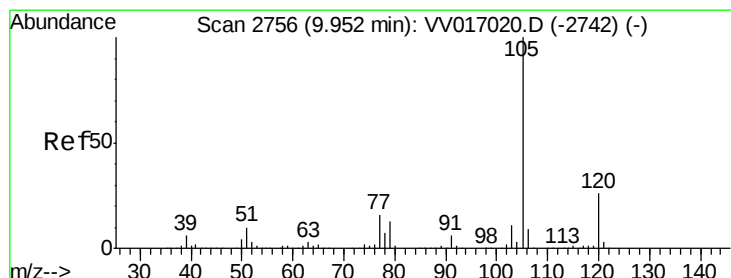
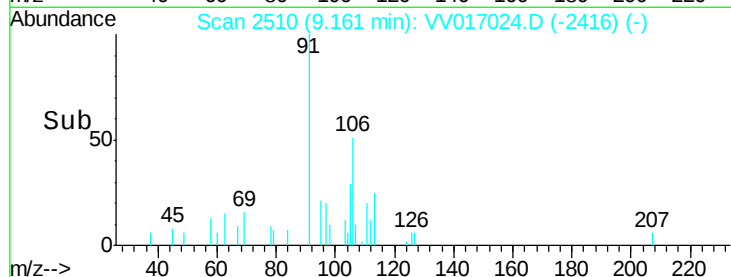
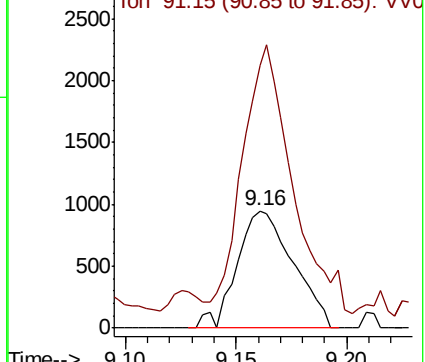
106 100

91 224.0 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#58

Isopropylbenzene

Concen: 0.605 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

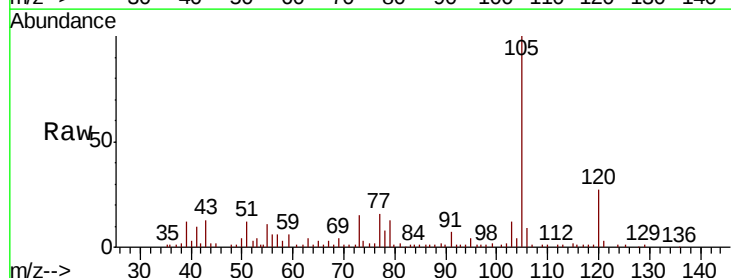
Tgt Ion:105 Resp: 34268

Ion Ratio Lower Upper

105 100

120 26.9 21.2 31.8

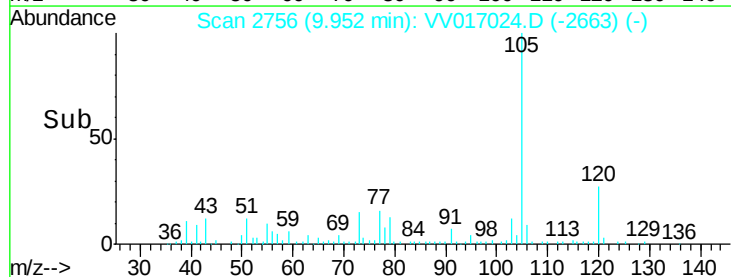
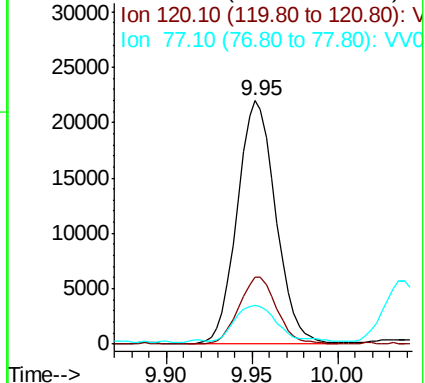
77 16.2 13.0 19.4

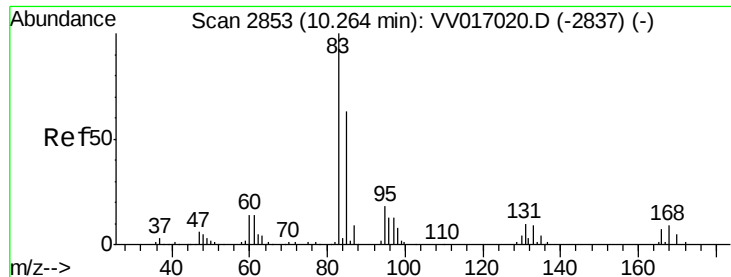


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#60

1,1,2,2-Tetrachloroethane

Concen: 0.514 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

Instrument :

MSVOA_V

ClientSampled :

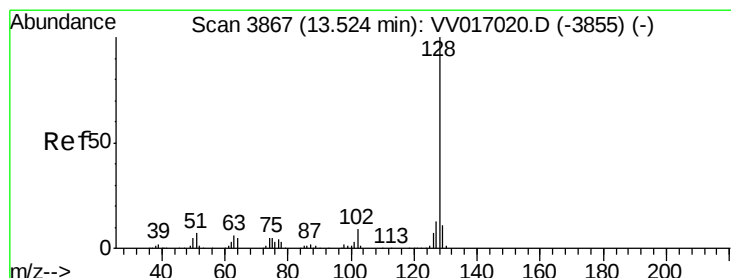
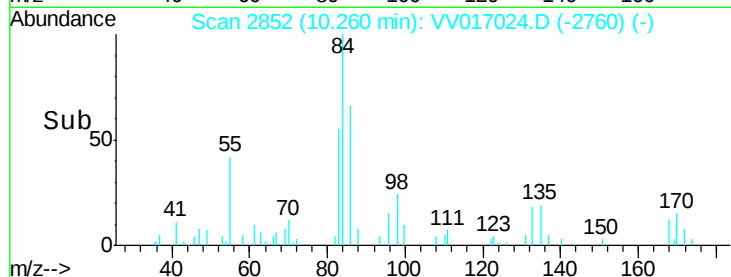
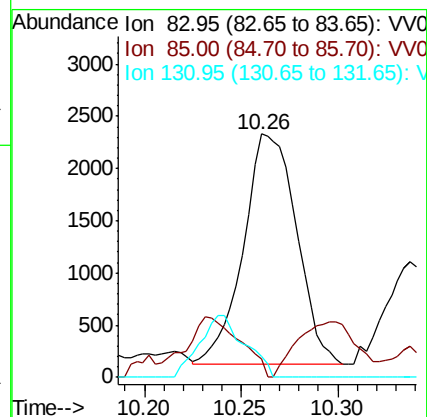
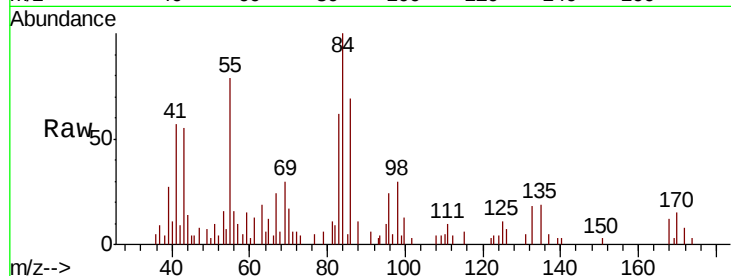
Tot Ion: 83 Resp: 4228

Ion Ratio Lower Upper

83 100

85 7.5 42.9 79.7#

131 8.7 8.6 13.0



#70

Naphthalene

Concen: 0.219 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV017024.D

Acq: 22 Jun 2020 18:10

Tgt Ion: 128 Resp: 5638

Ion Ratio Lower Upper

128 100

129 0.0 8.8 13.2#

127 2.5 10.5 15.7#

