

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062420\
 Data File : VV017079.D
 Acq On : 24 Jun 2020 18:17
 Operator : SY/MD
 Sample : L3105-03
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK6

Quant Time: Jun 25 01:20:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jun 25 01:16:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	168196	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	164319	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	77350	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38799	3.84	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.80%
7) Chloroethane-d5	1.58	69	30827	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.13	63	61380	3.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.80%
20) 2-Butanone-d5	3.92	46	114918	44.67	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.34%
24) Chloroform-d	4.38	84	100826	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.06	65	54143	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.08	84	190469	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.10	67	55988	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.80%
41) Toluene-d8	7.34	98	167680	4.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.80%
45) trans-1,3-Dichloropropene-	7.64	79	22017	4.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.80%
48) 2-Hexanone-d5	8.11	63	84617	41.78	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.56%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	40248	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	68508	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	60629	5.493	ug/L 98
8) Chloroethane	1.60	64	875	0.143	ug/L 92
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	828	0.093	ug/L # 22
12) 1,1-Dichloroethene	2.13	96	1225	0.152	ug/L # 1
13) Acetone	2.20	43	8811	6.775	ug/L 99
16) Methylene chloride	2.52	84	1025	0.119	ug/L # 61
18) trans-1,2-Dichloroethene	2.78	96	1472	0.172	ug/L 84
19) 1,1-Dichloroethane	3.21	63	38063	1.980	ug/L 97
21) 2-Butanone	4.10	43	642784	262.188	ug/L # 50
22) cis-1,2-Dichloroethene	3.94	96	39197	3.351	ug/L 98
25) Chloroform	4.41	83	12132	0.578	ug/L 88
27) 1,2-Dichloroethane	5.16	62	7321	0.561	ug/L 96
30) Cyclohexane	4.70	56	3681	0.196	ug/L # 65
33) Benzene	5.13	78	7243	0.168	ug/L 100
34) Trichloroethene	5.94	95	5819	0.462	ug/L 95
35) Methylcyclohexane	6.10	83	14553	0.743	ug/L # 20
47) 1,1,2-Trichloroethane	7.87	97	2763	0.366	ug/L # 82

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Quant Time: Jun 25 01:20:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jun 25 01:16:55 2020
Response via : Initial Calibration

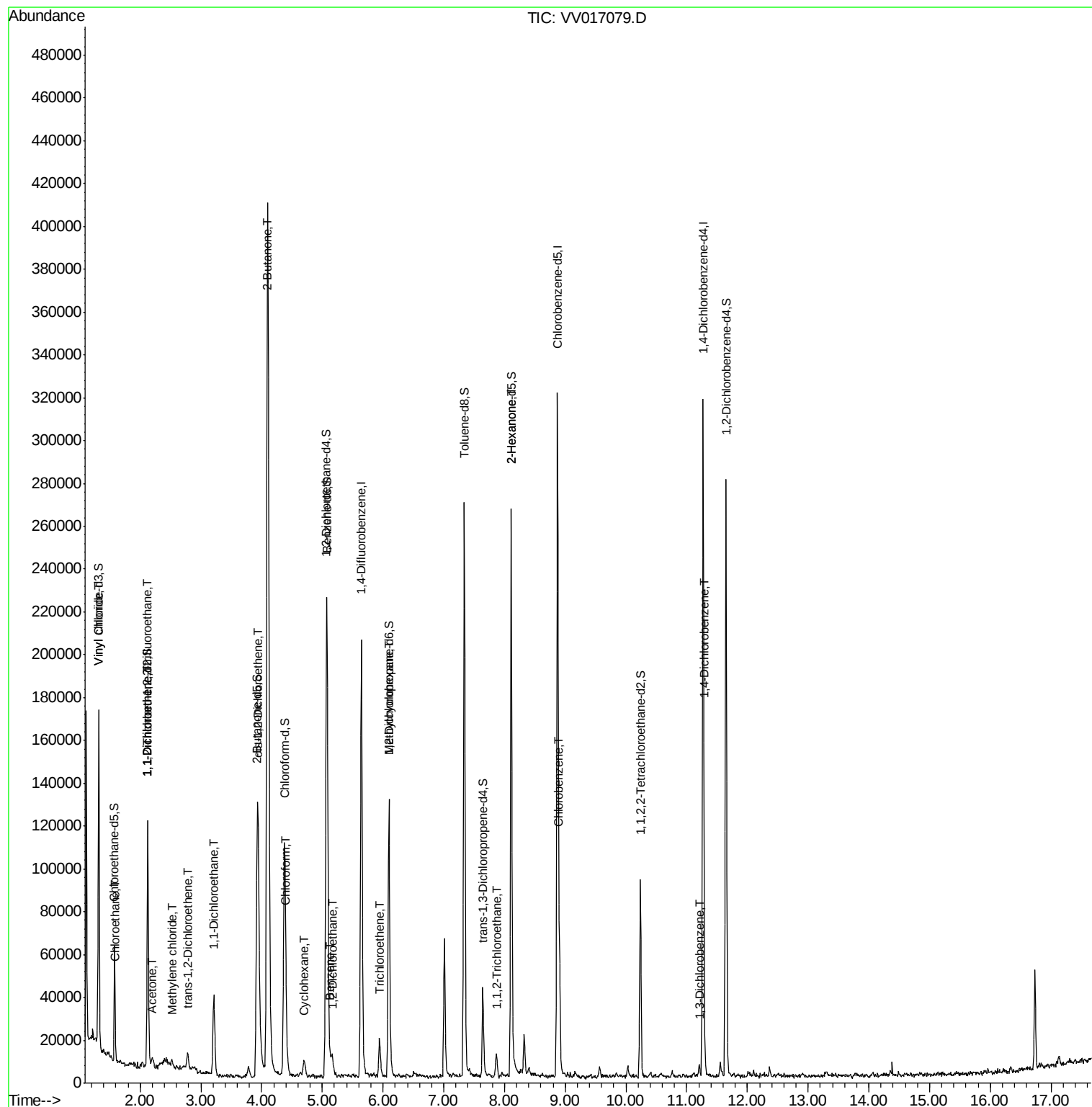
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	8.11	43	11818	2.700	ug/L #	66
53) Chlorobenzene	8.90	112	28792	0.923	ug/L	98
63) 1,3-Dichlorobenzene	11.21	146	2199	0.094	ug/L	97
64) 1,4-Dichlorobenzene	11.29	146	2545	0.108	ug/L	94

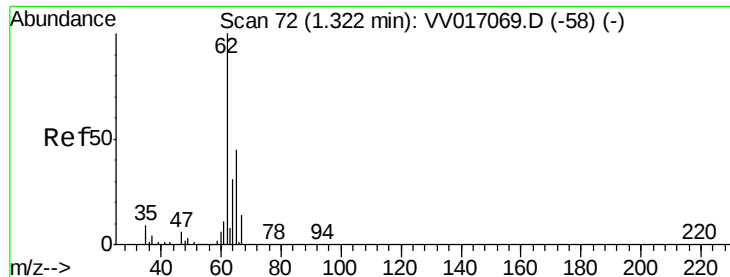
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062420\
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QLast Update : Thu Jun 25 01:16:55 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 5.493 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampleId :

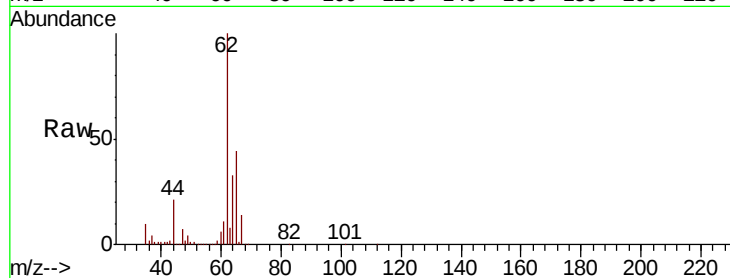
BFXK6

Tot Ion: 62 Resp: 60629

Ion Ratio Lower Upper

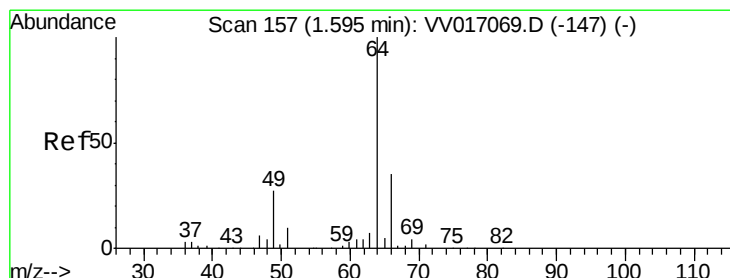
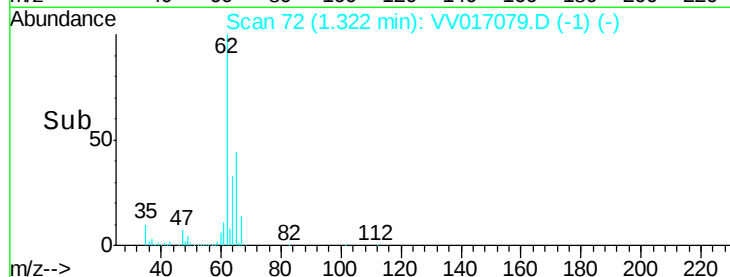
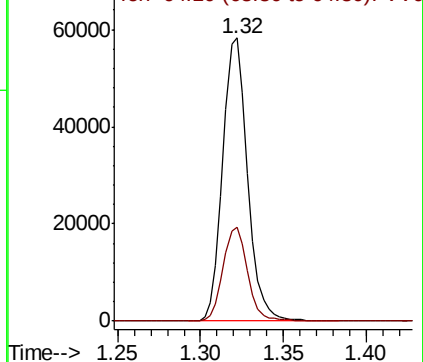
62 100

64 33.2 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 0.143 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV017079.D

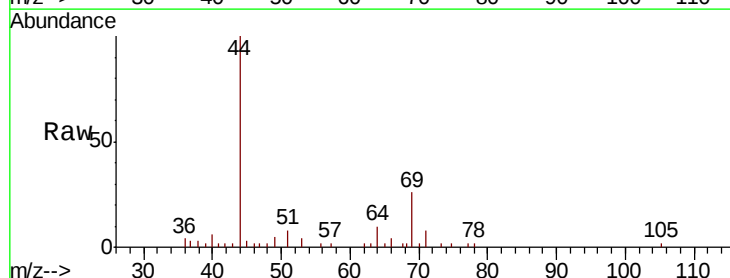
Acq: 24 Jun 2020 18:17

Tgt Ion: 64 Resp: 875

Ion Ratio Lower Upper

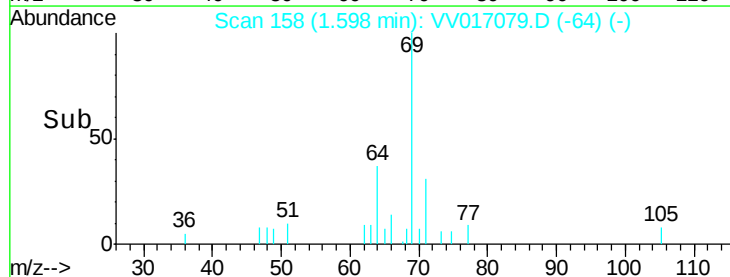
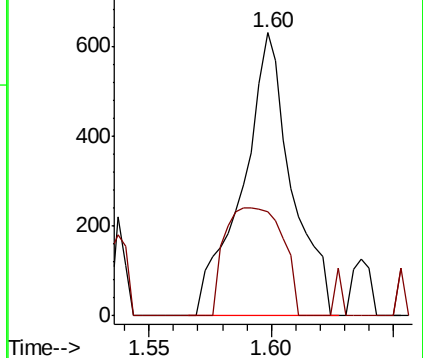
64 100

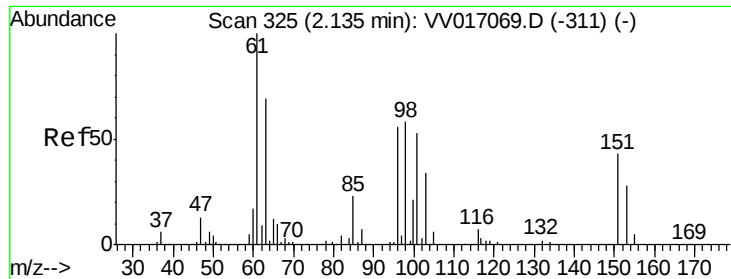
66 36.9 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 0.093 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampleId :

BFXK6

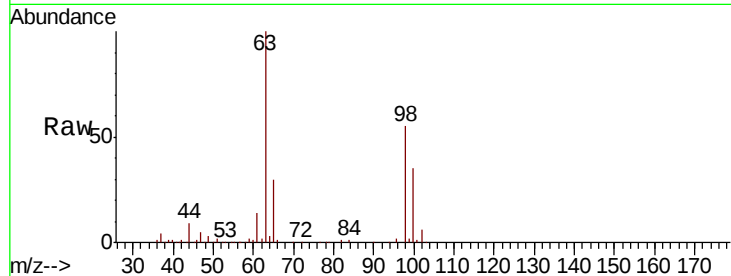
Tot Ion:101 Resp: 828

Ion Ratio Lower Upper

101 100

85 7.7 35.4 53.2#

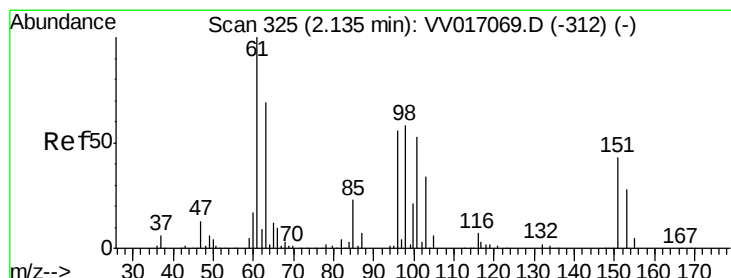
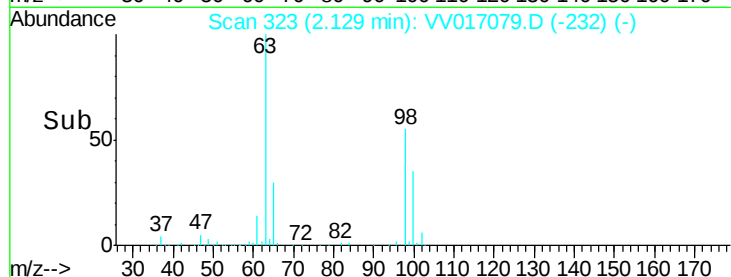
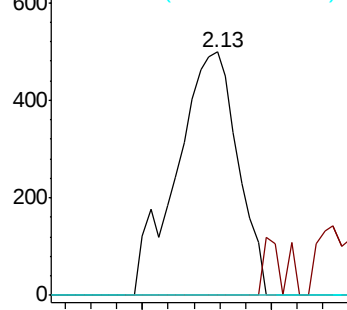
151 0.0 63.9 95.9#



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



#12

1,1-Dichloroethene

Concen: 0.152 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

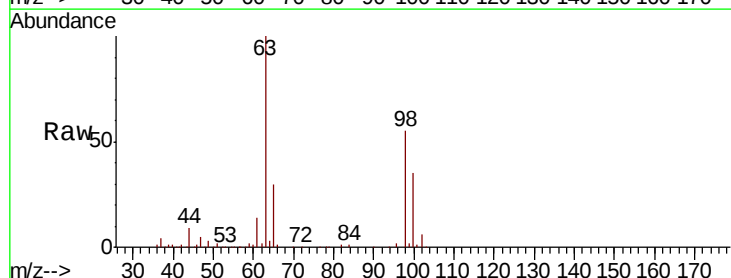
Tgt Ion: 96 Resp: 1225

Ion Ratio Lower Upper

96 100

61 739.8 125.0 232.2#

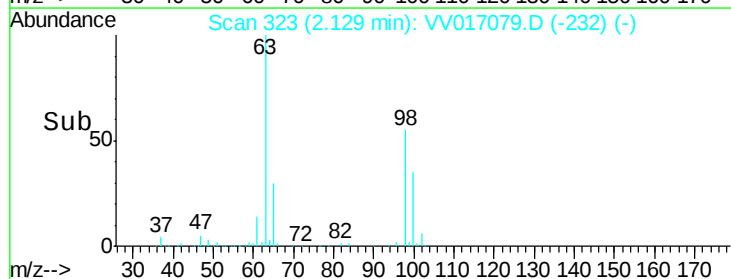
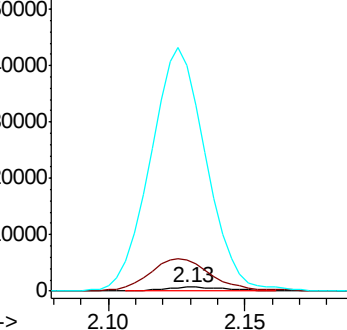
63 5359.4 109.8 203.8#

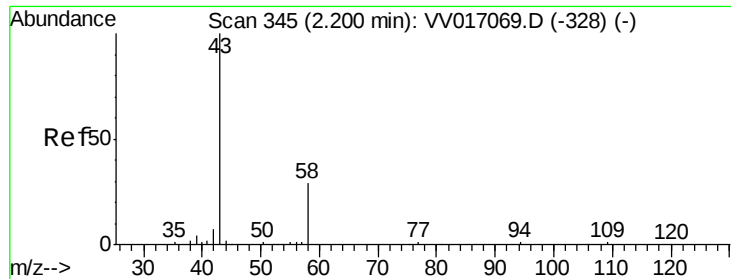


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.775 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampleId :

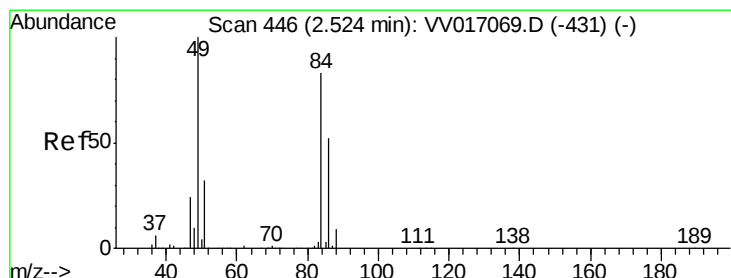
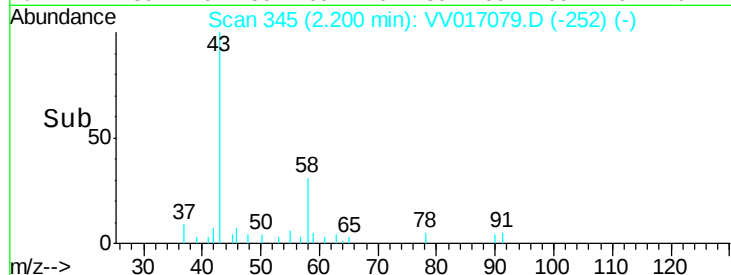
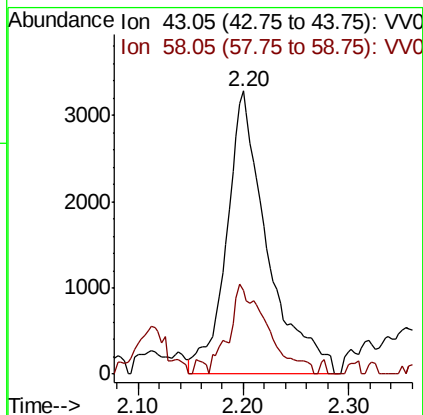
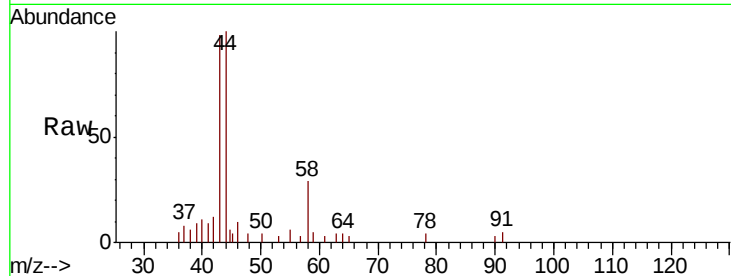
BFXK6

Tot Ion: 43 Resp: 8811

Ion Ratio Lower Upper

43 100

58 29.7 0.0 58.4



#16

Methylene chloride

Concen: 0.119 ug/L

RT: 2.52 min Scan# 444

Delta R.T. -0.01 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

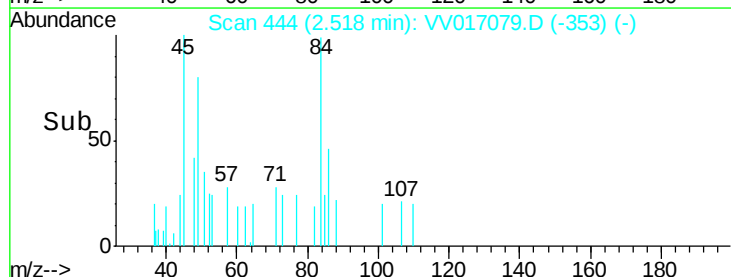
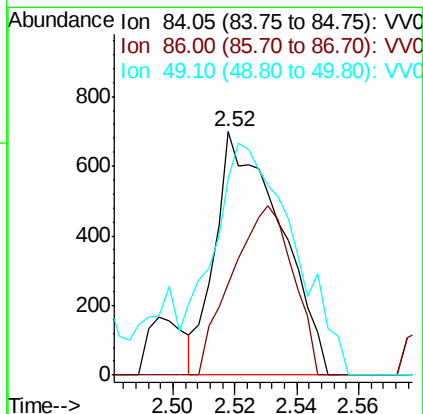
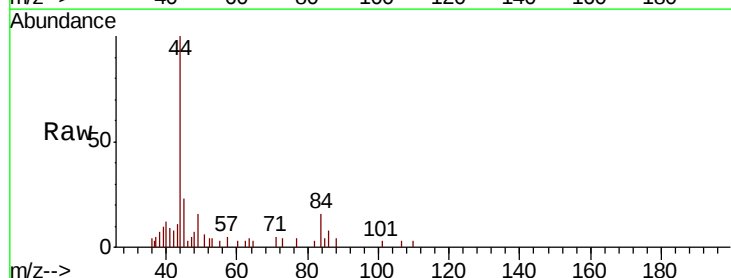
Tgt Ion: 84 Resp: 1025

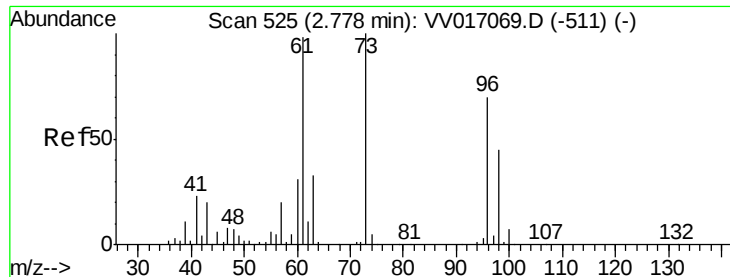
Ion Ratio Lower Upper

84 100

86 37.5 45.8 85.0#

49 80.4 89.6 166.4#





#18

trans-1,2-Dichloroethene

Concen: 0.172 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampled :

BFXK6

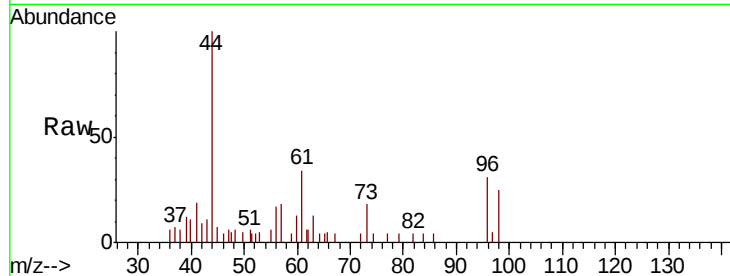
Tot Ion: 96 Resp: 1472

Ion Ratio Lower Upper

96 100

61 129.4 102.3 189.9

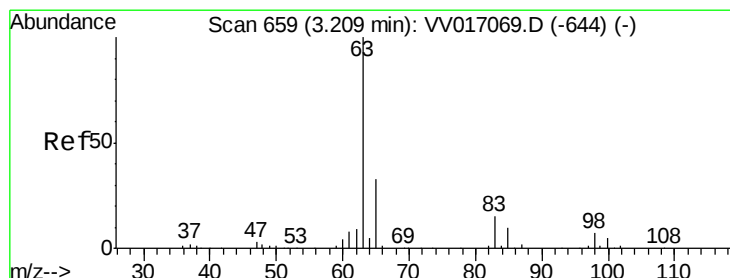
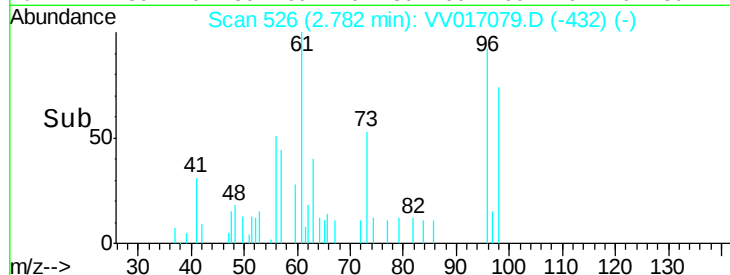
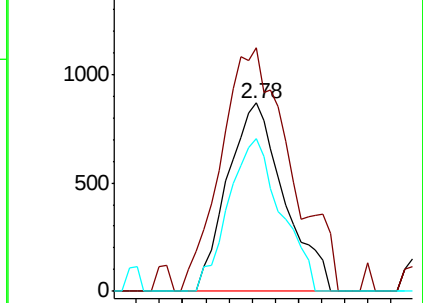
98 81.0 44.7 82.9



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0



#19

1,1-Dichloroethane

Concen: 1.980 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

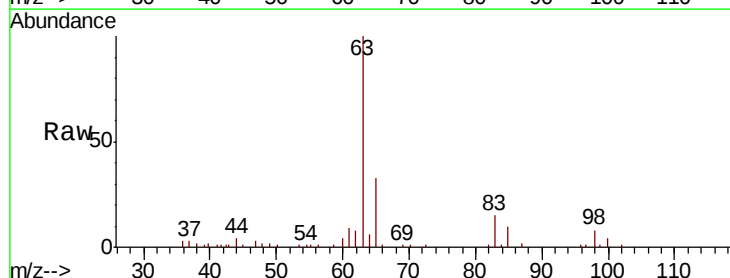
Tgt Ion: 63 Resp: 38063

Ion Ratio Lower Upper

63 100

65 32.6 21.8 40.4

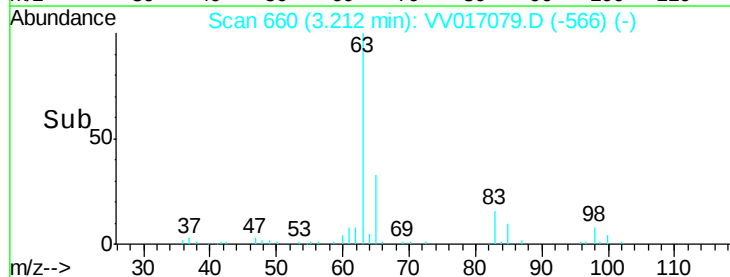
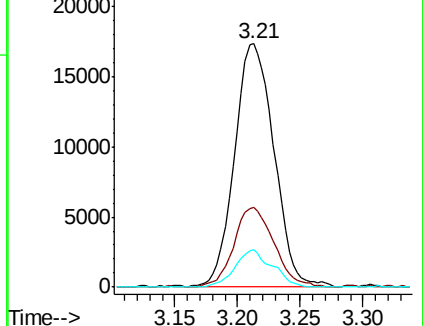
83 15.4 9.7 17.9

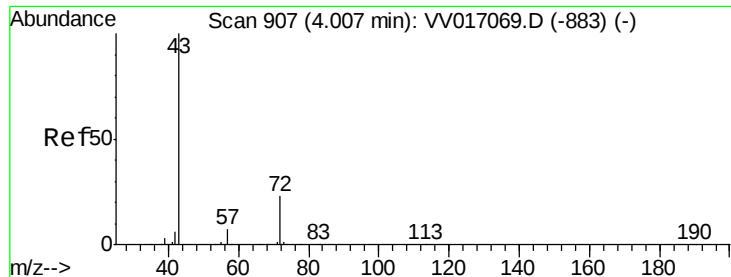


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0





#21

2-Butanone

Concen: 262.188 ug/L

RT: 4.10 min Scan# 937

Delta R.T. 0.10 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampled :

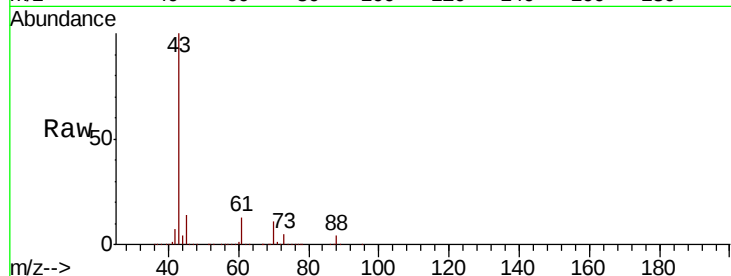
BFXK6

Tot Ion: 43 Resp: 642784

Ion Ratio Lower Upper

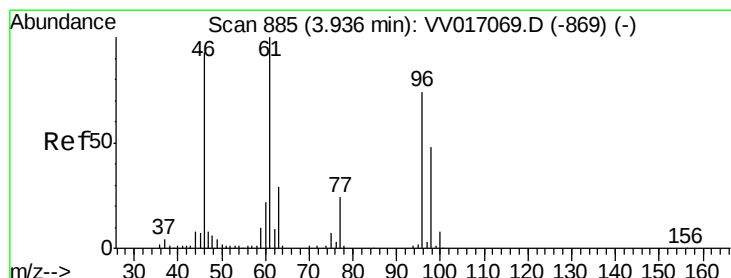
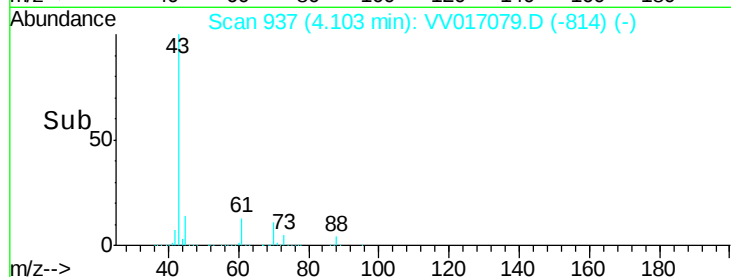
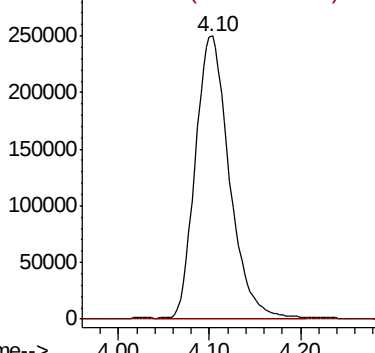
43 100

72 0.0 12.4 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



#22

cis-1,2-Dichloroethene

Concen: 3.351 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

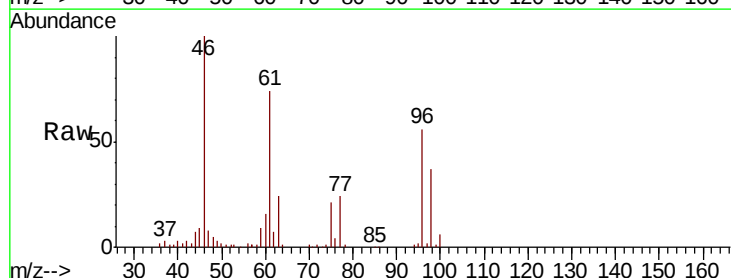
Tgt Ion: 96 Resp: 39197

Ion Ratio Lower Upper

96 100

61 132.4 91.0 169.0

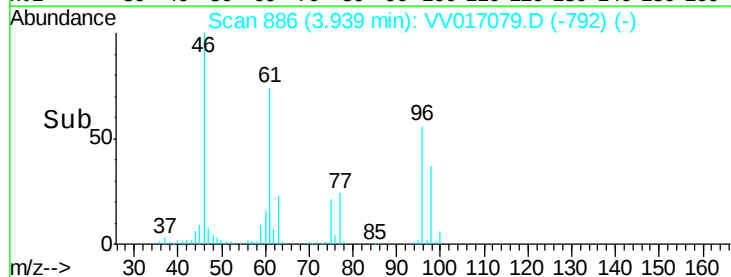
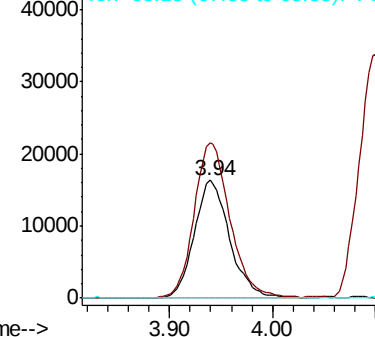
68 0.0 0.0 0.0

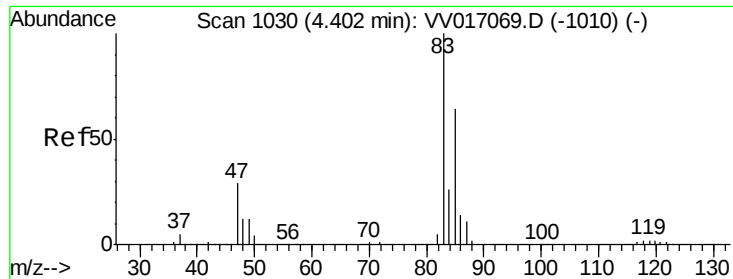


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

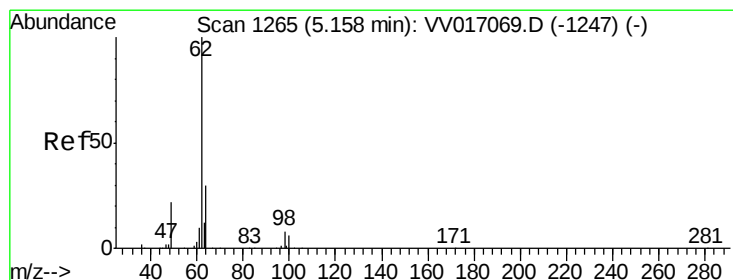
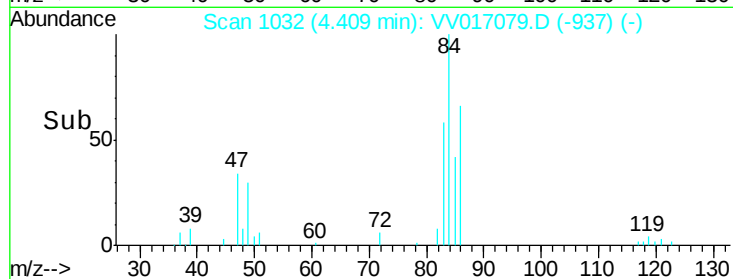
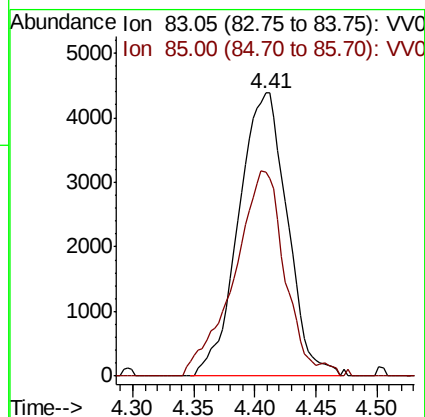
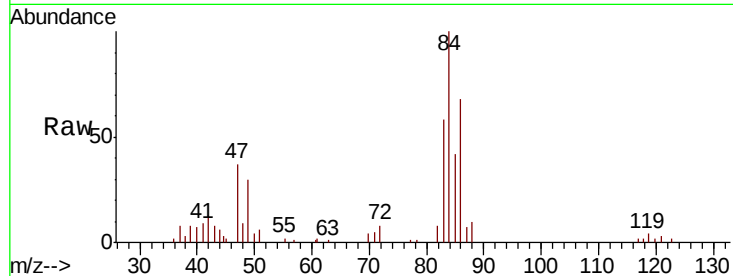




#25
Chloroform
Concen: 0.578 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV017079.D
Acq: 24 Jun 2020 18:17

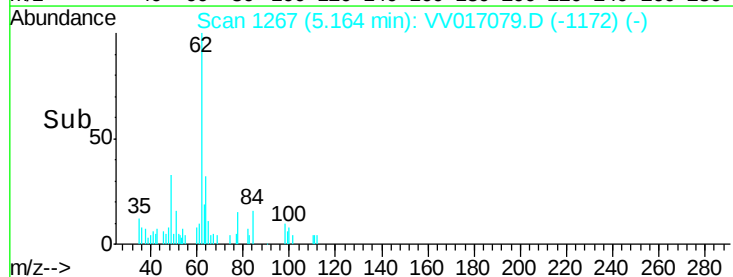
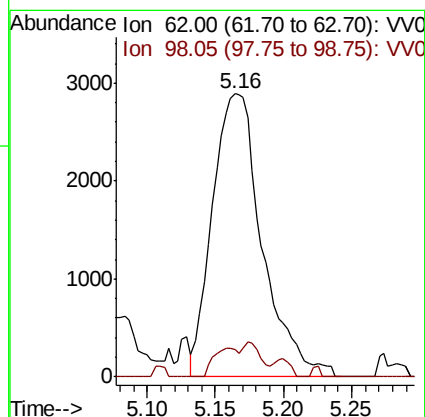
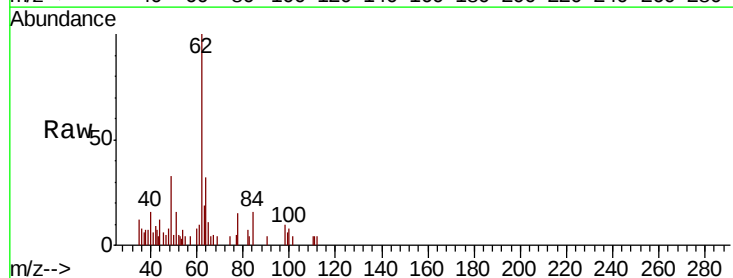
Instrument :
MSVOA_V
ClientSampleId :
BFXK6

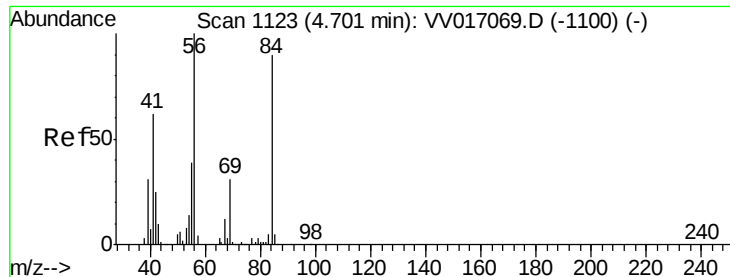
Tot Ion: 83 Resp: 12132
Ion Ratio Lower Upper
83 100
85 72.3 44.2 82.2



#27
1,2-Dichloroethane
Concen: 0.561 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV017079.D
Acq: 24 Jun 2020 18:17

Tgt Ion: 62 Resp: 7321
Ion Ratio Lower Upper
62 100
98 9.7 6.7 10.1

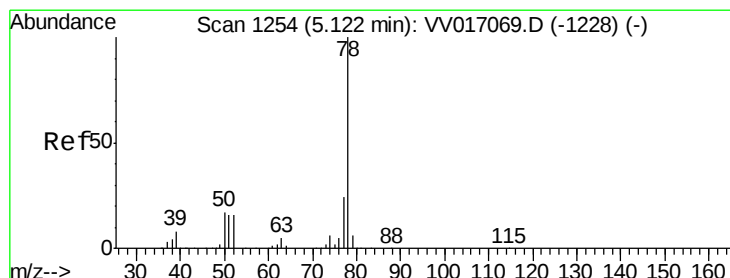
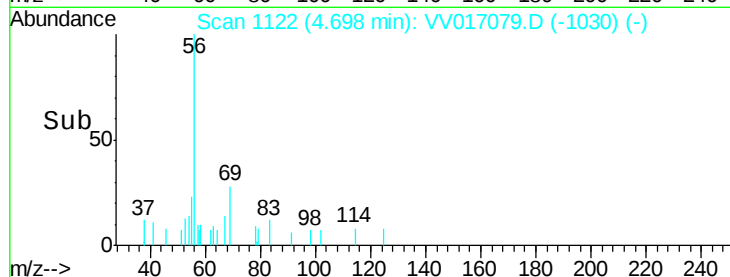
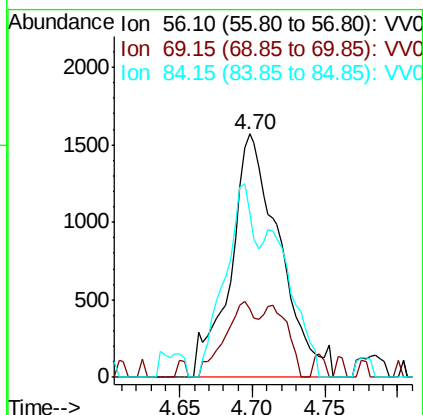
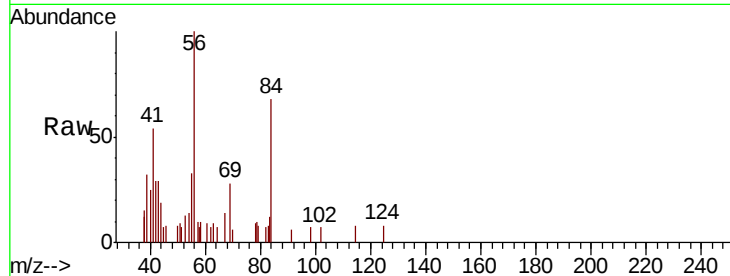




#30
Cyclohexane
Concen: 0.196 ug/L
RT: 4.70 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VV017079.D
Acq: 24 Jun 2020 18:17

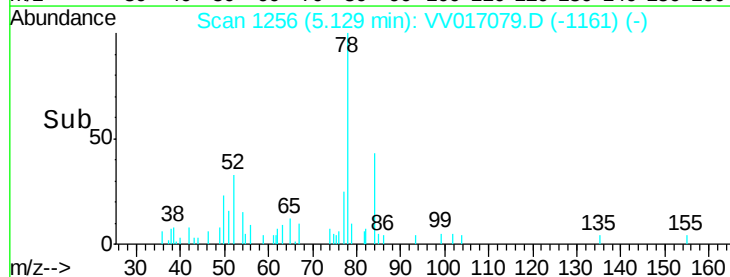
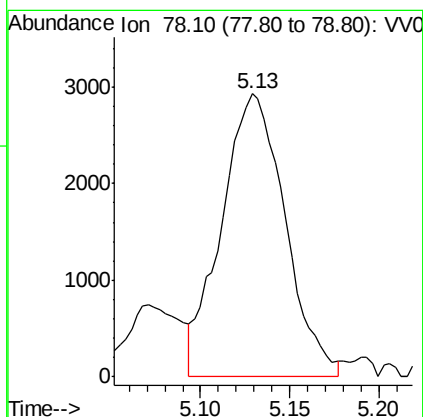
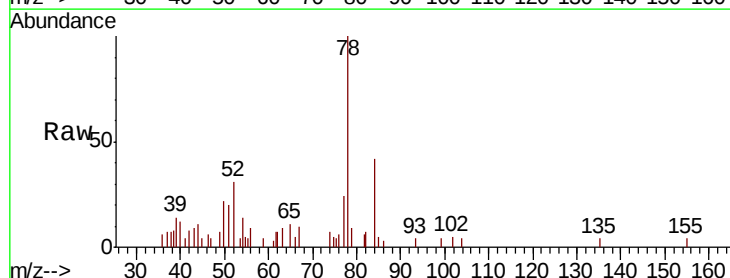
Instrument :
MSVOA_V
ClientSampleId :
BFXK6

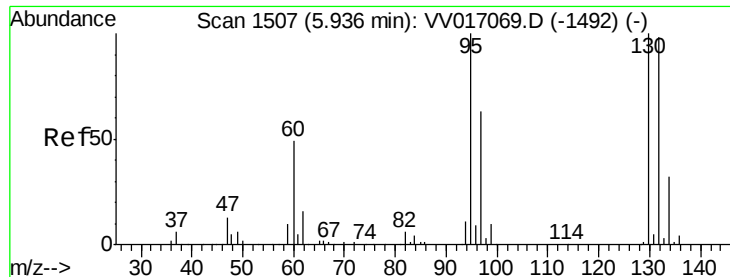
Tot Ion: 56 Resp: 3681
Ion Ratio Lower Upper
56 100
69 20.3 24.4 36.6#
84 49.6 69.9 104.9#



#33
Benzene
Concen: 0.168 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV017079.D
Acq: 24 Jun 2020 18:17

Tgt Ion: 78 Resp: 7243





#34

Trichloroethene

Concen: 0.462 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampled :

BFXK6

Tot Ion: 95 Resp: 5819

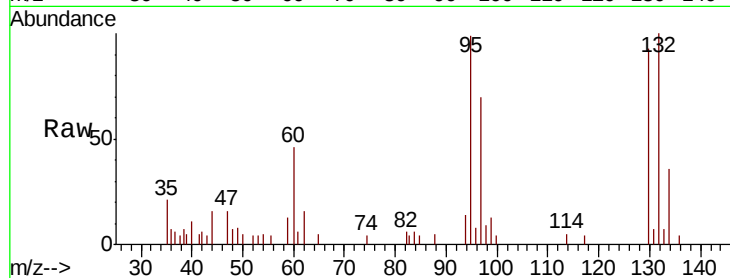
Ion Ratio Lower Upper

95 100

97 71.0 45.3 84.1

132 101.1 68.8 127.8

130 94.2 70.2 130.4

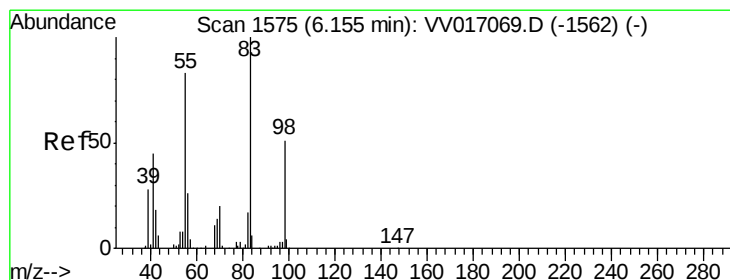
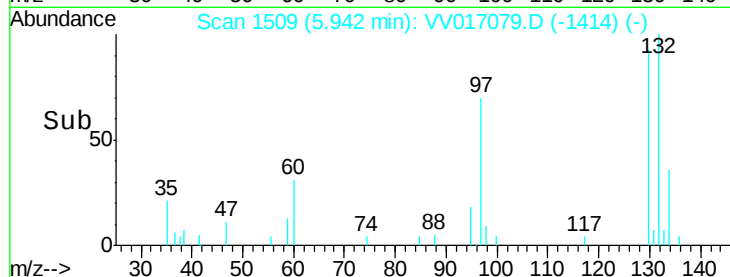
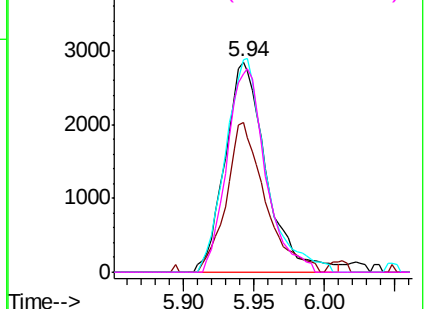


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 0.743 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.06 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

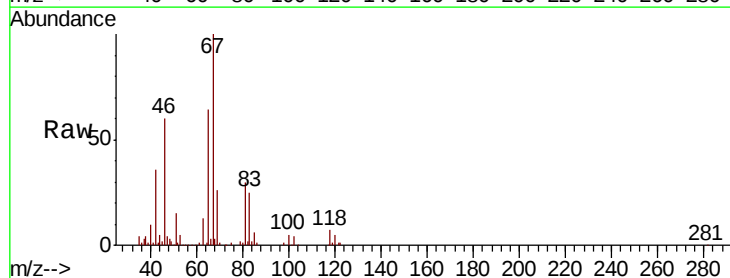
Tgt Ion: 83 Resp: 14553

Ion Ratio Lower Upper

83 100

55 1.9 63.6 95.4#

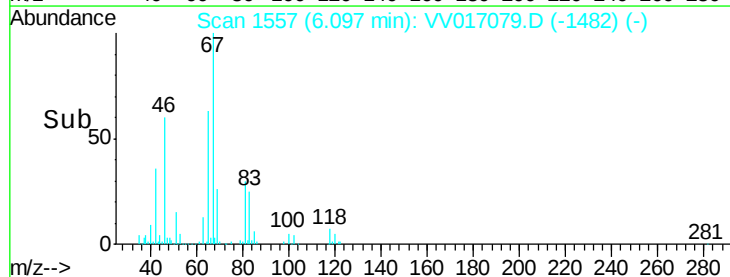
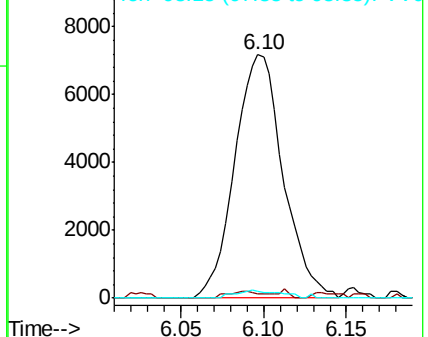
98 2.9 38.8 58.2#

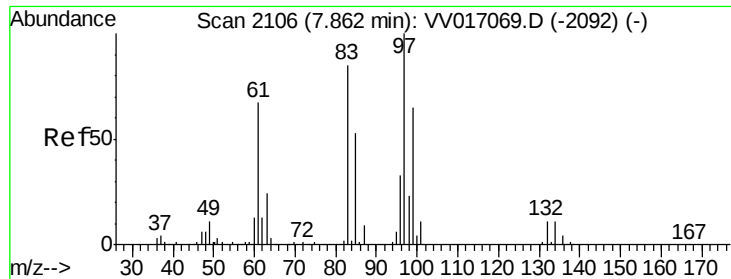


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

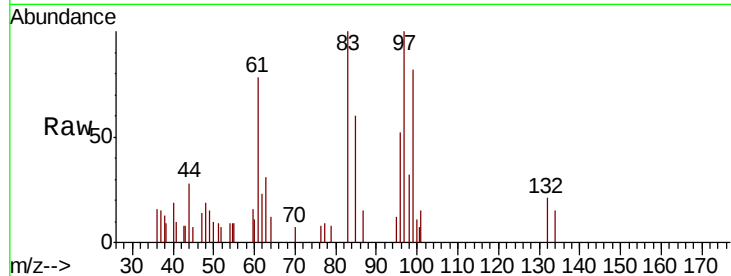




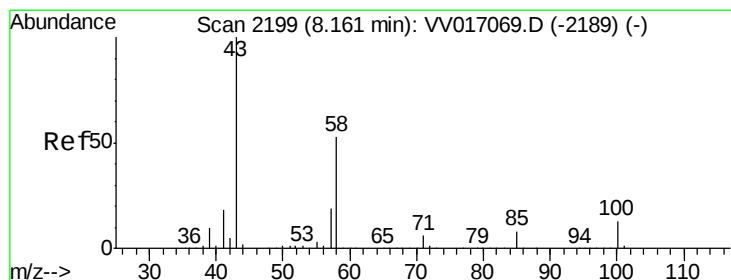
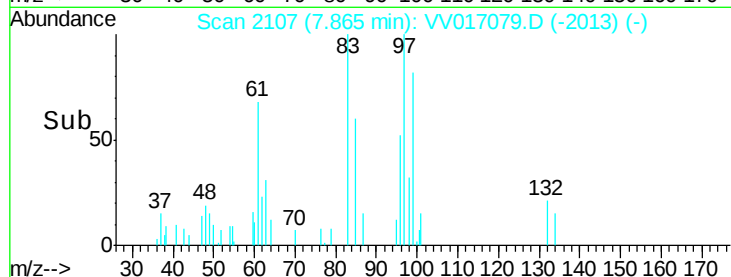
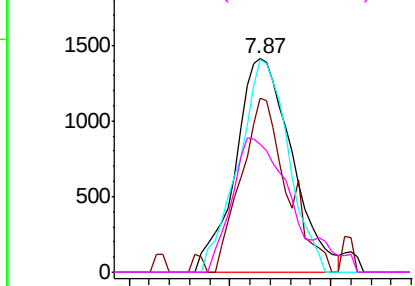
#47
 1,1,2-Trichloroethane
 Concen: 0.366 ug/L
 RT: 7.87 min Scan# 2107
 Delta R.T. 0.00 min
 Lab File: VV017079.D
 Acq: 24 Jun 2020 18:17

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK6

Tot Ion: 97 Resp: 2763
 Ion Ratio Lower Upper
 97 100
 99 81.5 43.6 81.0#
 83 99.6 57.4 106.6
 85 59.8 38.8 72.0

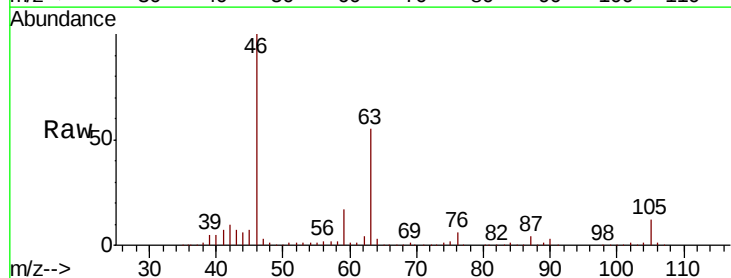


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

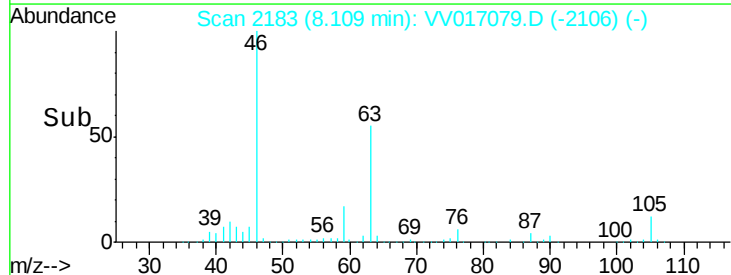
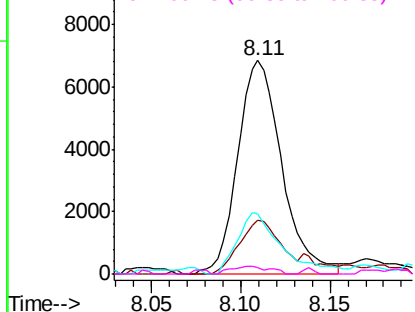


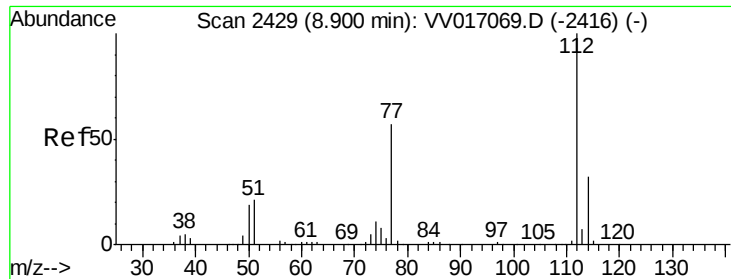
#50
 2-Hexanone
 Concen: 2.700 ug/L
 RT: 8.11 min Scan# 2183
 Delta R.T. -0.05 min
 Lab File: VV017079.D
 Acq: 24 Jun 2020 18:17

Tgt Ion: 43 Resp: 11818
 Ion Ratio Lower Upper
 43 100
 58 23.4 41.6 62.4#
 57 29.2 15.4 23.0#
 100 3.2 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





#53

Chlorobenzene

Concen: 0.923 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

Instrument :

MSVOA_V

ClientSampled :

BFXK6

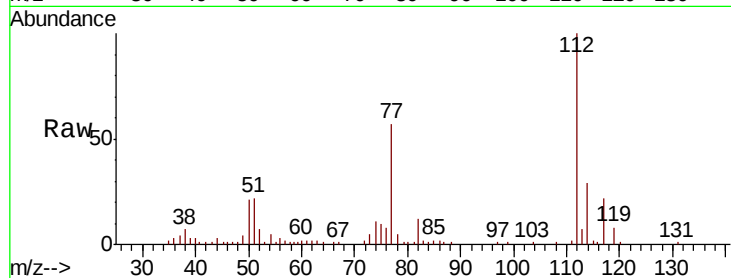
Tot Ion:112 Resp: 28792

Ion Ratio Lower Upper

112 100

114 29.5 22.0 41.0

77 56.5 46.0 69.0



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

8.90

15000

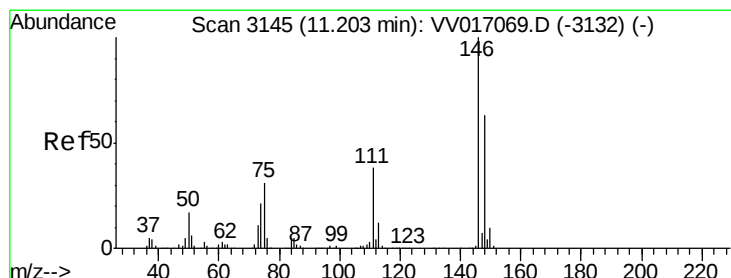
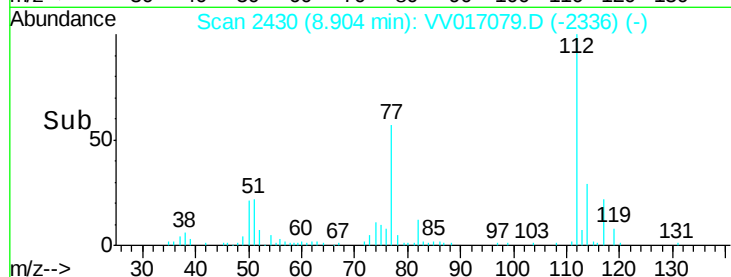
10000

5000

0

8.85 8.90 8.95

Time-->



#63

1,3-Dichlorobenzene

Concen: 0.094 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017079.D

Acq: 24 Jun 2020 18:17

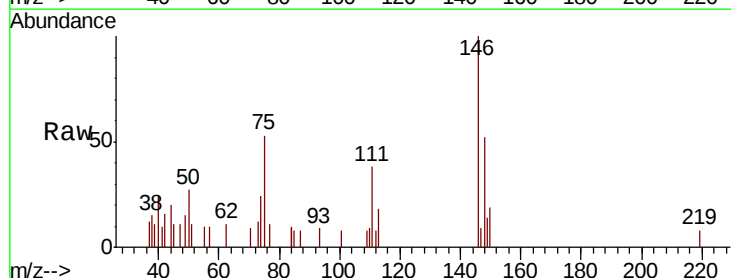
Tgt Ion:146 Resp: 2199

Ion Ratio Lower Upper

146 100

111 37.6 29.2 54.2

148 65.2 44.9 83.5



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

11.21

1500

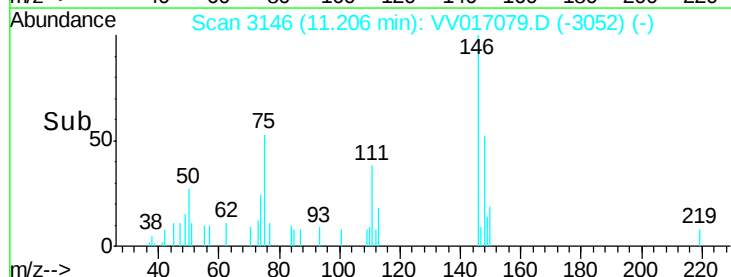
1000

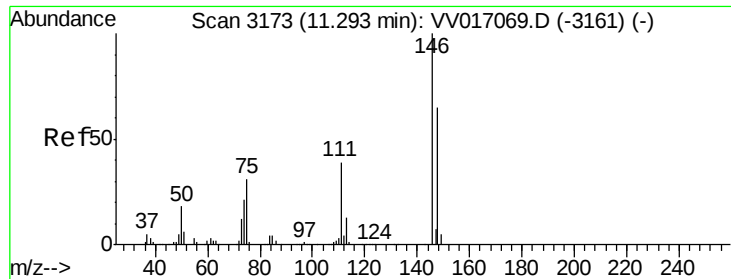
500

0

11.15 11.20 11.25

Time-->





#64
 1,4-Dichlorobenzene
 Concen: 0.108 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV017079.D
 Acq: 24 Jun 2020 18:17

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK6

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	27.4	50.8
148	69.4	44.3	82.3

