

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017040.D
 Acq On : 23 Jun 2020 00:33
 Operator : SY/MD
 Sample : L3067-16
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH3

Quant Time: Jun 23 05:01:04 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	182254	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	172677	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	86048	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	39389	3.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.00%
7) Chloroethane-d5	1.57	69	30697	3.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.20%
11) 1,1-Dichloroethene-d2	2.12	63	61625	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	3.98	46	102323	36.70	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	73.40%
24) Chloroform-d	4.38	84	103198	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	5.06	65	56309	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
32) Benzene-d6	5.07	84	203852	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
36) 1,2-Dichloropropane-d6	6.09	67	59738	4.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.00%
41) Toluene-d8	7.33	98	185298	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
45) trans-1,3-Dichloropropene-	7.65	79	22051	3.95	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.00%
48) 2-Hexanone-d5	8.12	63	79864	37.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.04%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	40104	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	76368	4.80	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.00%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	27980	2.340	ug/L 95
8) Chloroethane	1.53	64	32934	4.983	ug/L # 51
14) Carbon disulfide	2.31	76	1694	0.065	ug/L # 63
18) trans-1,2-Dichloroethene	2.77	96	15787	1.703	ug/L 94
19) 1,1-Dichloroethane	3.20	63	61455	2.951	ug/L 99
22) cis-1,2-Dichloroethene	3.93	96	162696	12.836	ug/L 99
25) Chloroform	4.40	83	3487	0.153	ug/L 79
27) 1,2-Dichloroethane	5.16	62	682	0.048	ug/L # 30
29) 1,1,1-Trichloroethane	4.63	97	8695	0.420	ug/L 91
33) Benzene	5.12	78	237932	5.261	ug/L 100
34) Trichloroethene	5.94	95	12272	0.927	ug/L 94
35) Methylcyclohexane	6.14	83	2884	0.140	ug/L # 82
37) 1,2-Dichloropropane	6.21	63	3833	0.342	ug/L 98
39) cis-1,3-Dichloropropene	7.01	75	2041	0.123	ug/L # 75
42) Toluene	7.41	91	3970	0.076	ug/L 79
43) 1,3,5-Trimethylbenzene	10.50	105	2715	0.058	ug/L # 63
44) 1,2,4-Trimethylbenzene	10.76	105	4400	0.092	ug/L # 82

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration

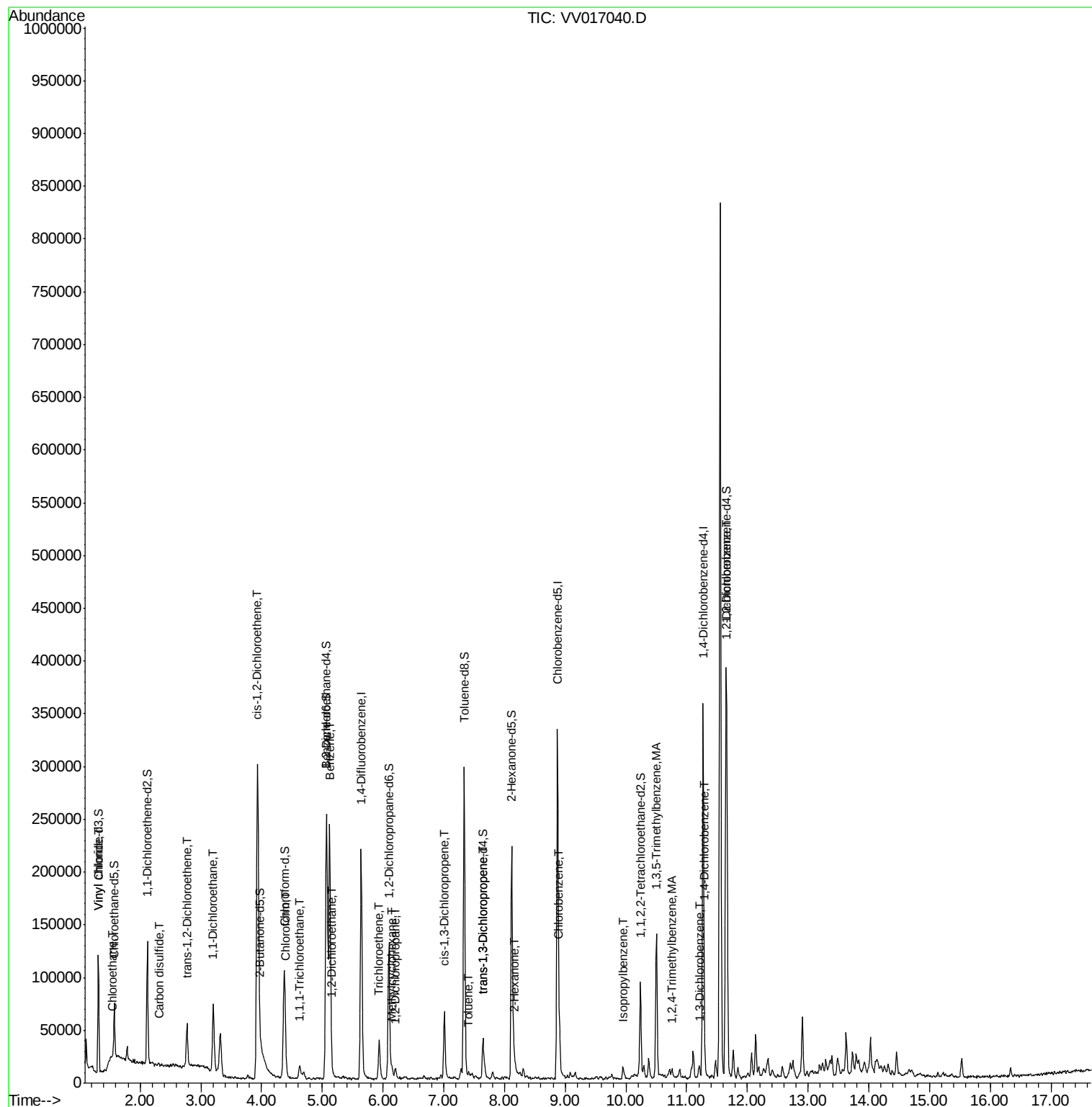
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.64	75	1367	0.095	ug/L	86
50) 2-Hexanone	8.17	43	5125	1.114	ug/L #	74
53) Chlorobenzene	8.90	112	25655	0.783	ug/L	91
58) Isopropylbenzene	9.95	105	6076	0.107	ug/L #	86
63) 1,3-Dichlorobenzene	11.21	146	3698	0.143	ug/L	97
64) 1,4-Dichlorobenzene	11.30	146	7431	0.282	ug/L	98
66) 1,2-Dichlorobenzene	11.67	146	81891	3.483	ug/L	98

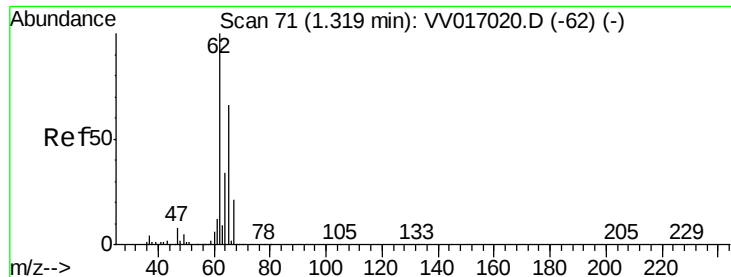
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.340 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampleID :

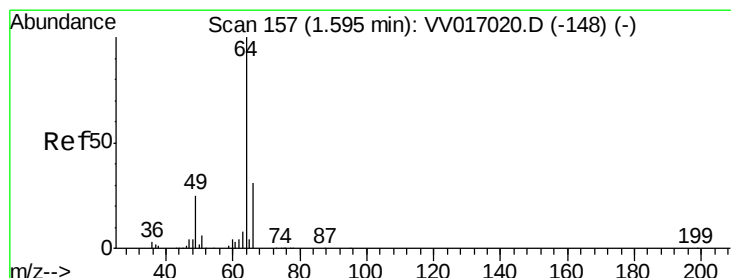
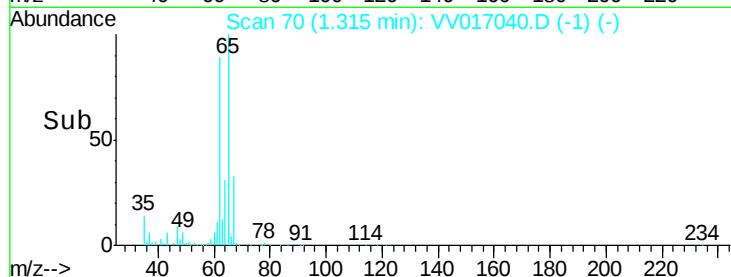
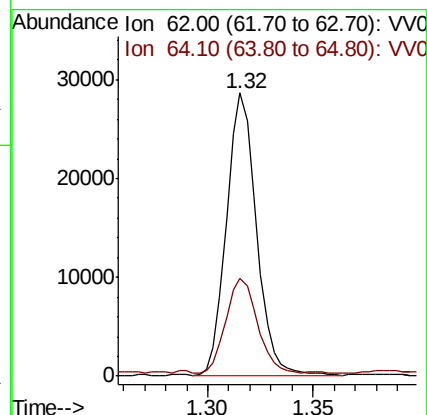
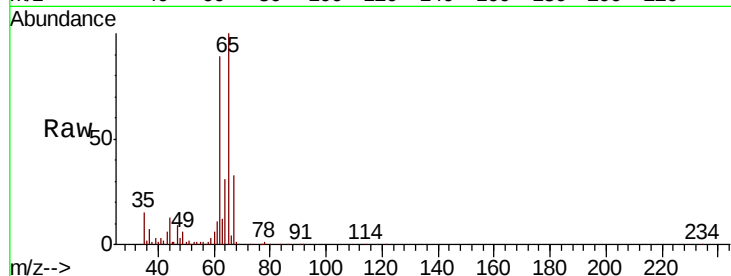
BFXH3

Tot Ion: 62 Resp: 27980

Ion Ratio Lower Upper

62 100

64 34.7 22.5 41.7



#8

Chloroethane

Concen: 4.983 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.06 min

Lab File: VV017040.D

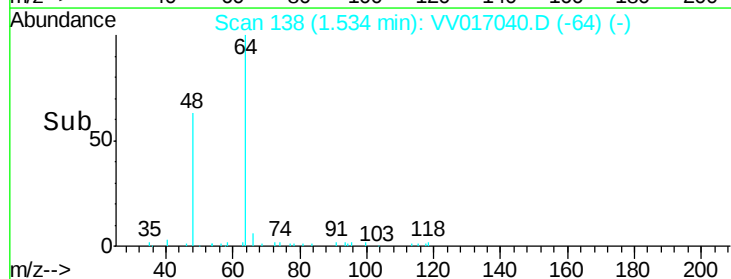
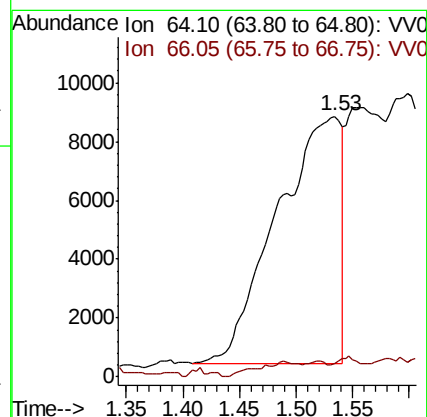
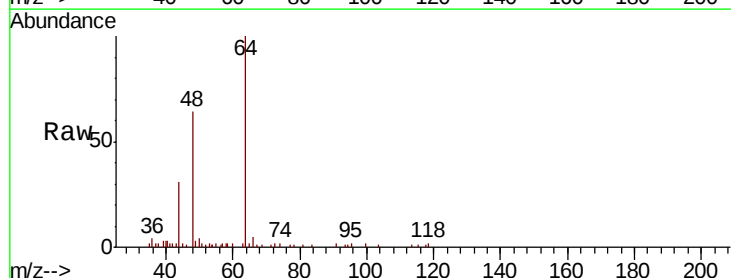
Acq: 23 Jun 2020 00:33

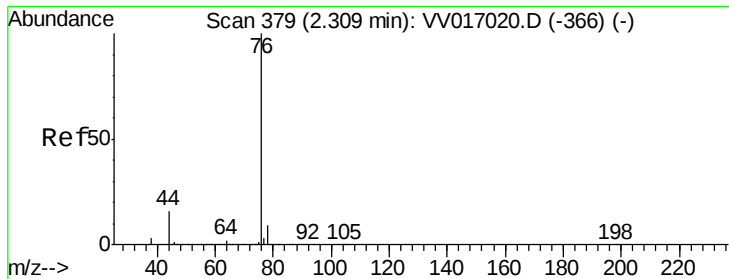
Tgt Ion: 64 Resp: 32934

Ion Ratio Lower Upper

64 100

66 5.3 22.8 42.4#





#14

Carbon disulfide

Concen: 0.065 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampled :

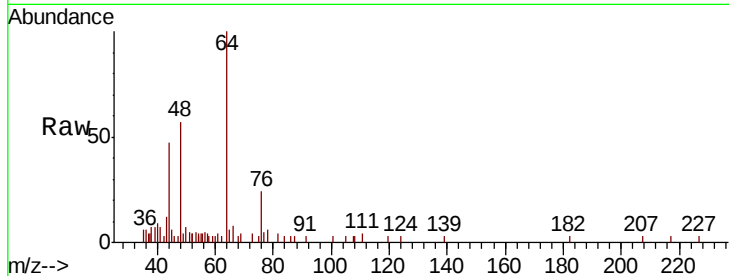
BFXH3

Tot Ion: 76 Resp: 1694

Ion Ratio Lower Upper

76 100

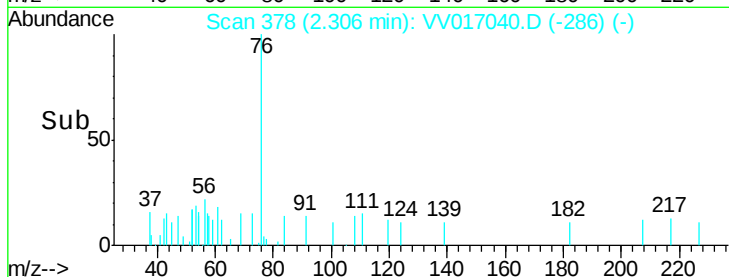
78 23.3 7.7 11.5#



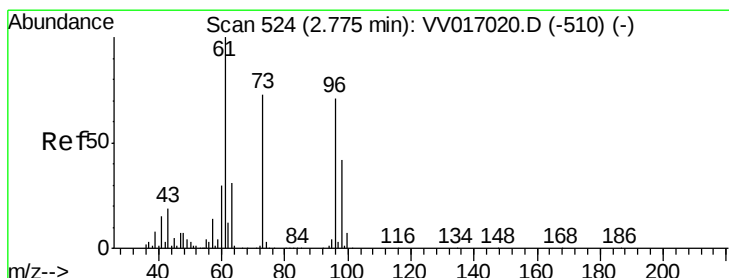
Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

Time-->



Time-->



#18

trans-1,2-Dichloroethene

Concen: 1.703 ug/L

RT: 2.77 min Scan# 522

Delta R.T. -0.01 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

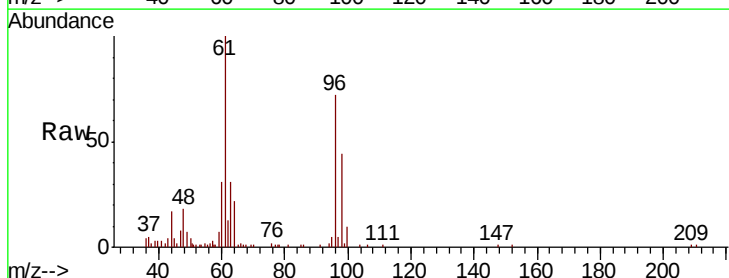
Tgt Ion: 96 Resp: 15787

Ion Ratio Lower Upper

96 100

61 138.4 102.3 189.9

98 60.7 44.7 82.9

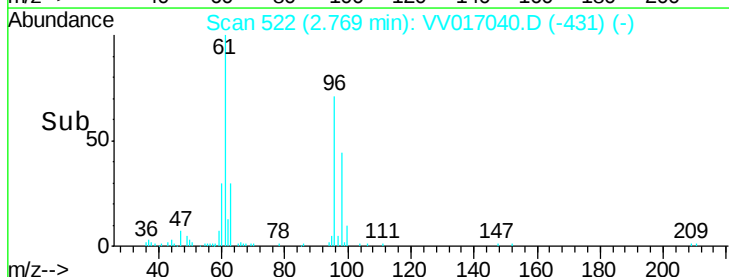


Abundance Ion 96.00 (95.70 to 96.70): VV0

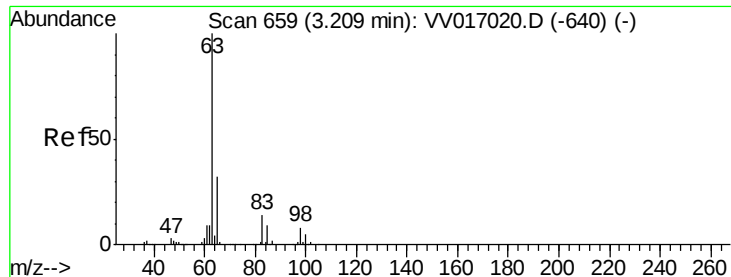
Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

Time-->



Time-->



#19

1,1-Dichloroethane

Concen: 2.951 ug/L

RT: 3.20 min Scan# 657

Delta R.T. -0.01 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampleId :

BFXH3

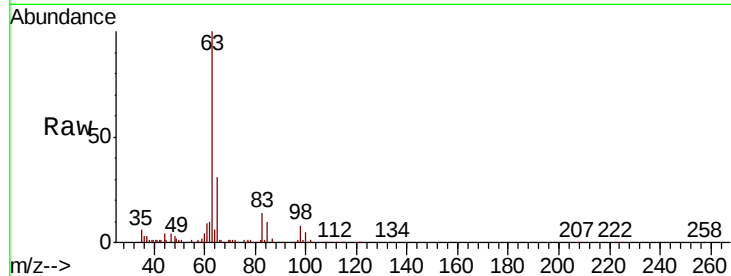
Tot Ion: 63 Resp: 61455

Ion Ratio Lower Upper

63 100

65 31.4 21.8 40.4

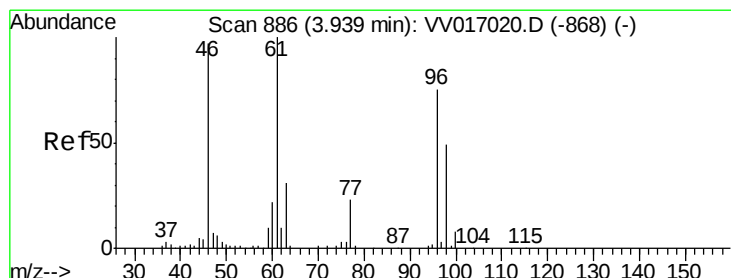
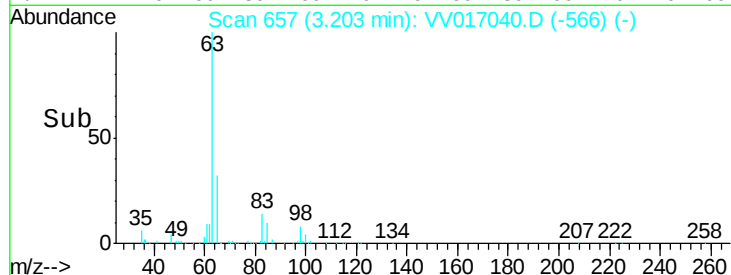
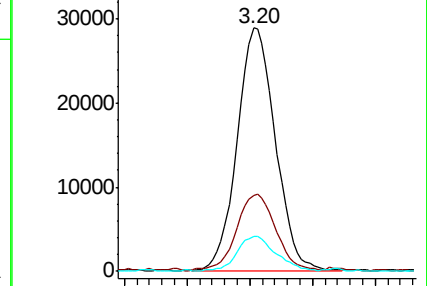
83 14.2 9.7 17.9



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: 12.836 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

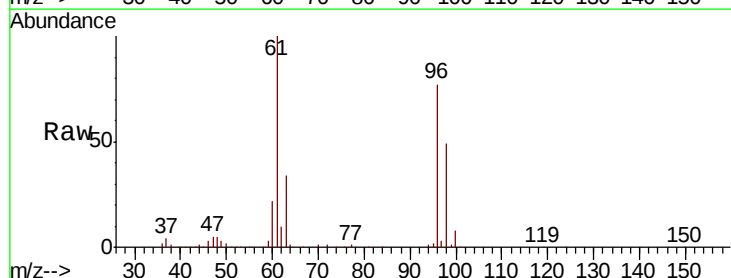
Tgt Ion: 96 Resp: 162696

Ion Ratio Lower Upper

96 100

61 129.1 91.0 169.0

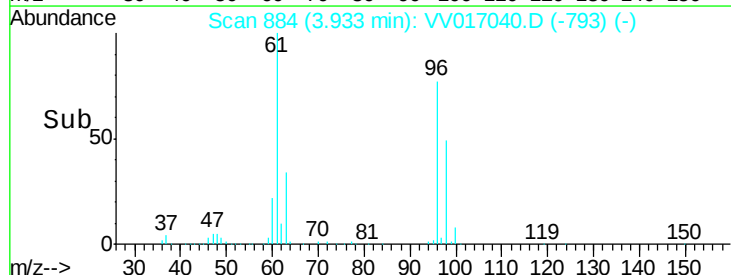
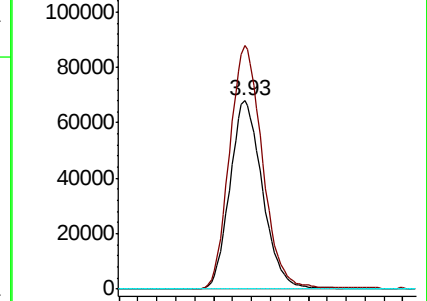
68 0.0 0.0 0.0

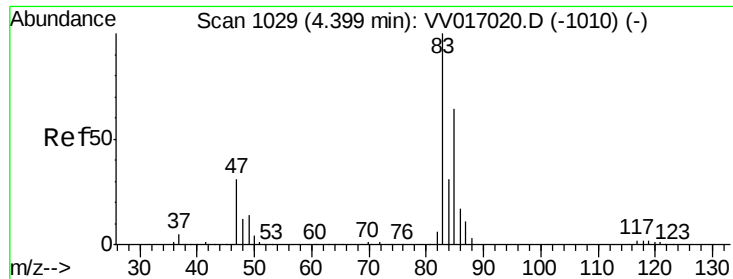


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

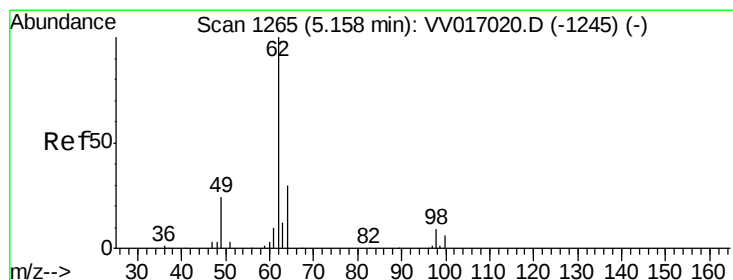
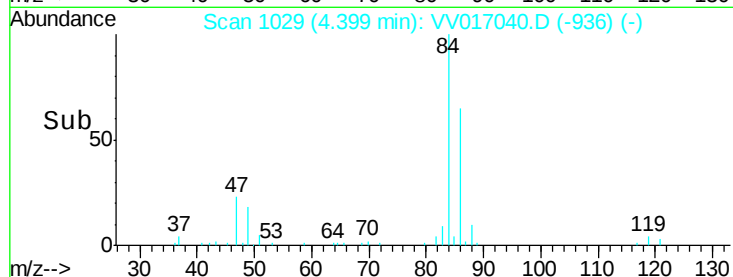
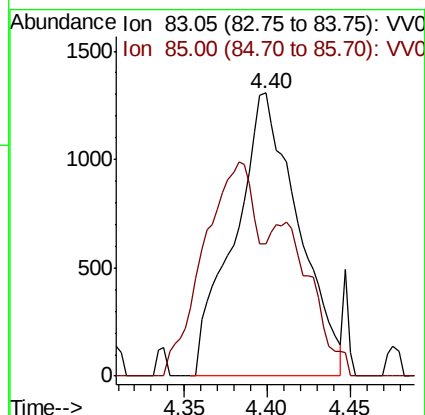
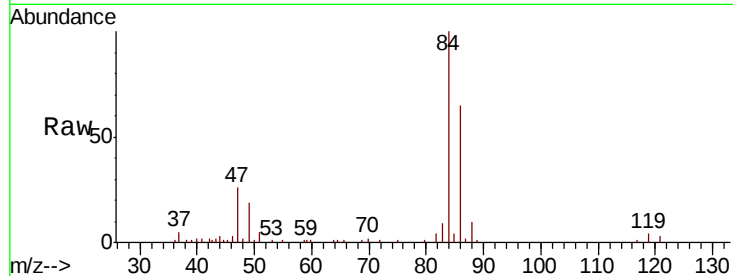




#25
Chloroform
Concen: 0.153 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV017040.D
Acq: 23 Jun 2020 00:33

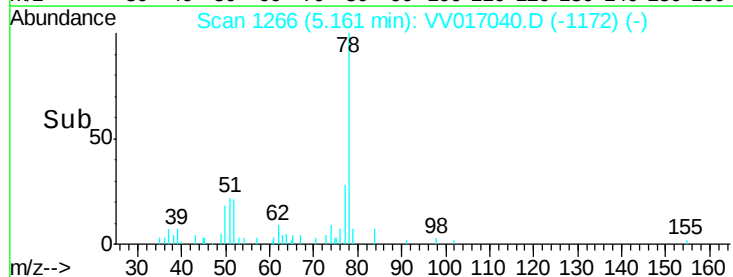
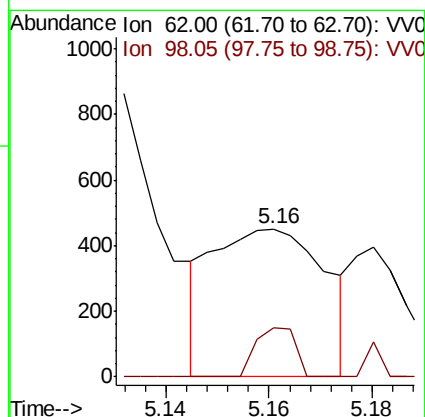
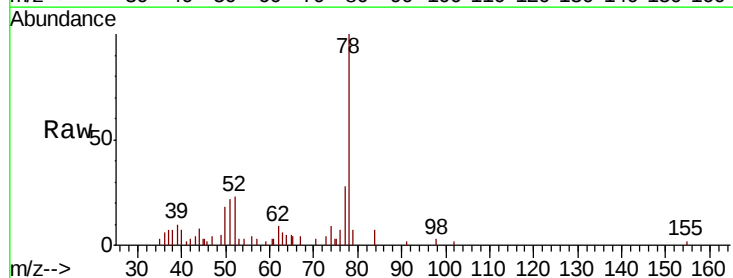
Instrument :
MSVOA_V
ClientSampled :
BFXH3

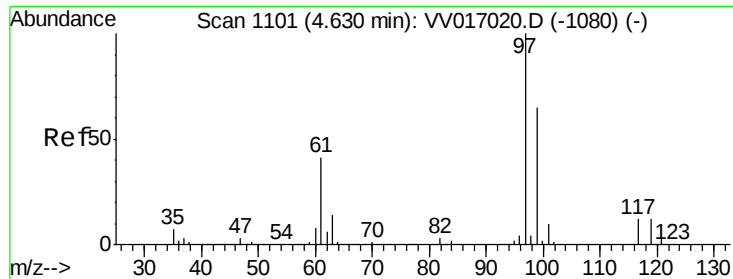
Tot Ion: 83 Resp: 3487
Ion Ratio Lower Upper
83 100
85 46.6 44.2 82.2



#27
1,2-Dichloroethane
Concen: 0.048 ug/L
RT: 5.16 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VV017040.D
Acq: 23 Jun 2020 00:33

Tgt Ion: 62 Resp: 682
Ion Ratio Lower Upper
62 100
98 33.3 6.7 10.1#

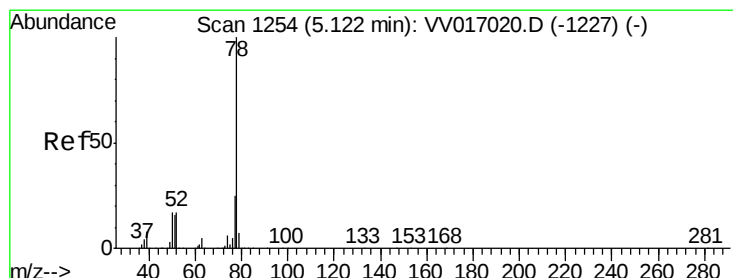
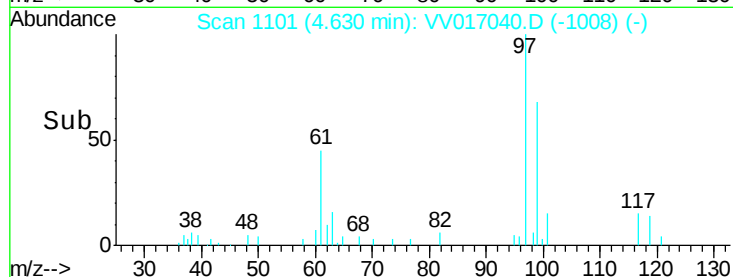
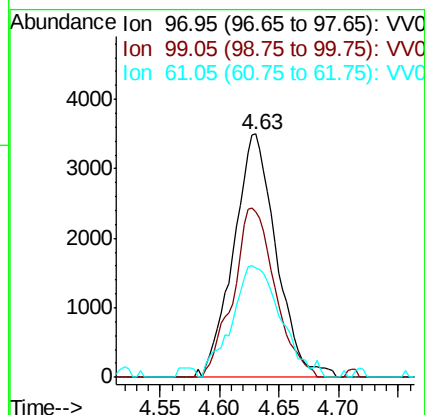
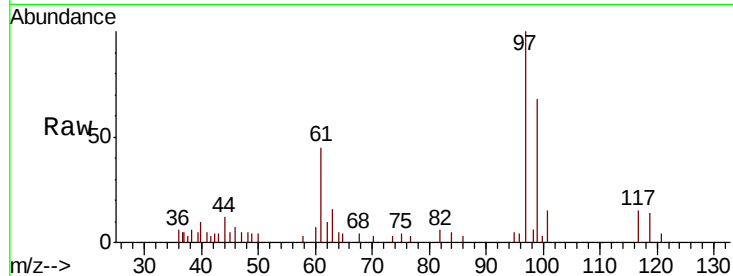




#29
 1,1,1-Trichloroethane
 Concen: 0.420 ug/L
 RT: 4.63 min Scan# 1101
 Delta R.T. -0.00 min
 Lab File: VV017040.D
 Acq: 23 Jun 2020 00:33

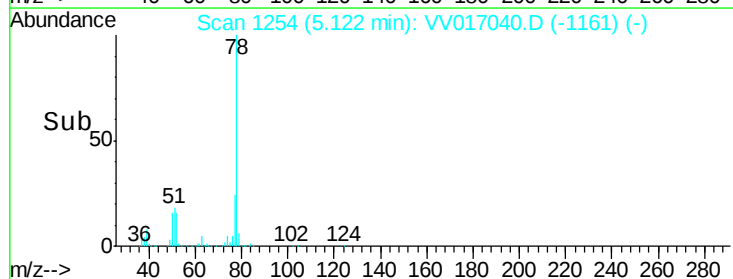
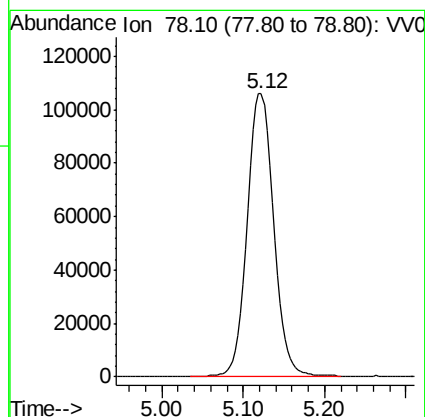
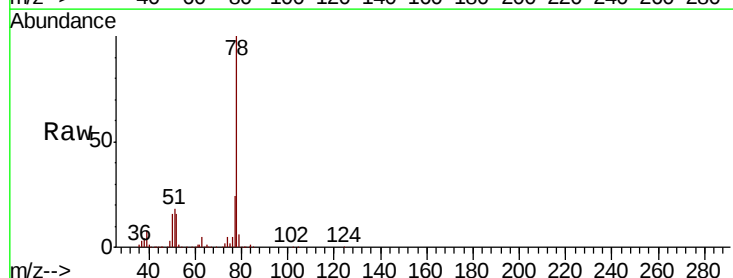
Instrument :
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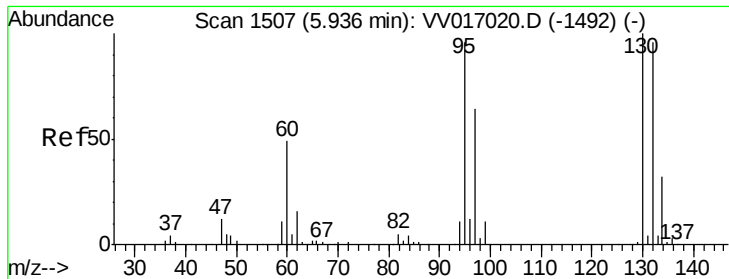
Tot Ion: 97 Resp: 8695
 Ion Ratio Lower Upper
 97 100
 99 68.4 50.3 75.5
 61 52.7 36.0 54.0



#33
 Benzene
 Concen: 5.261 ug/L
 RT: 5.12 min Scan# 1254
 Delta R.T. -0.00 min
 Lab File: VV017040.D
 Acq: 23 Jun 2020 00:33

Tgt Ion: 78 Resp: 237932





#34

Trichloroethene

Concen: 0.927 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampleId :

BFXH3

Tot Ion: 95 Resp: 12272

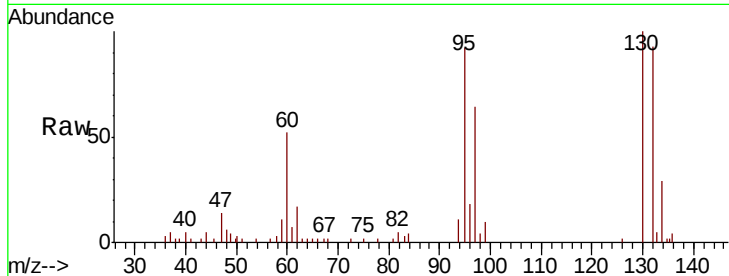
Ion Ratio Lower Upper

95 100

97 69.8 45.3 84.1

132 101.7 68.8 127.8

130 108.9 70.2 130.4

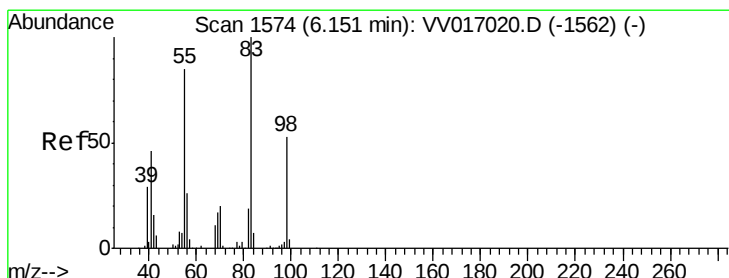
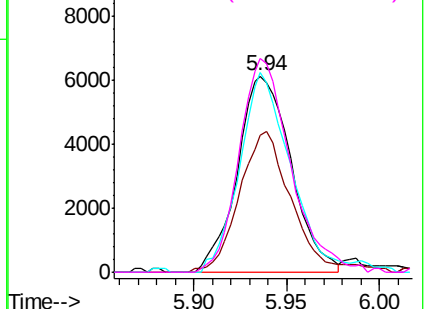
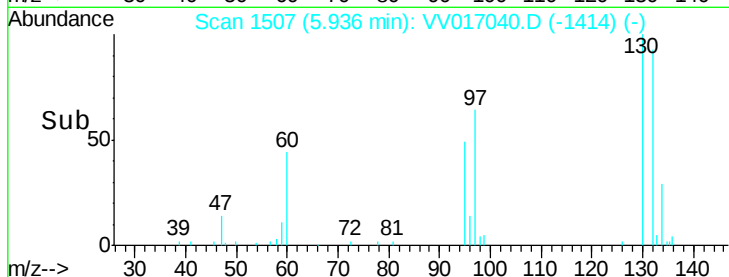


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.140 ug/L

RT: 6.14 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

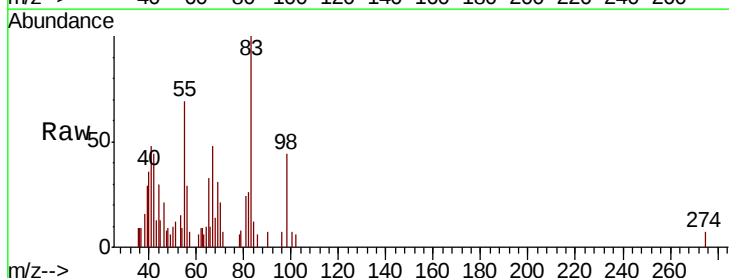
Tgt Ion: 83 Resp: 2884

Ion Ratio Lower Upper

83 100

55 101.9 63.6 95.4#

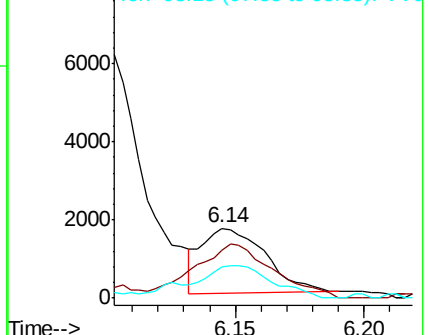
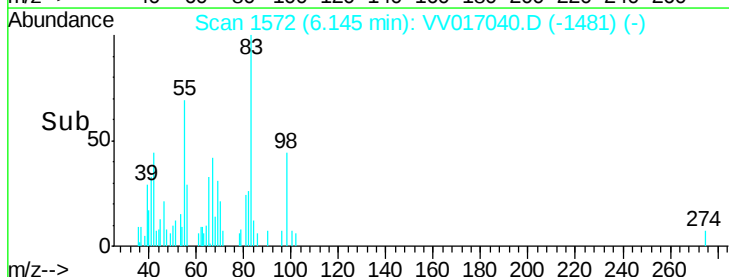
98 53.2 38.8 58.2

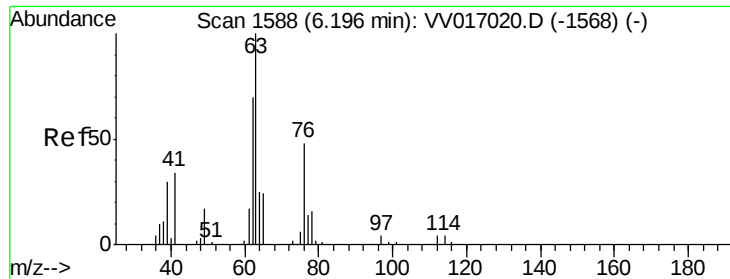


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

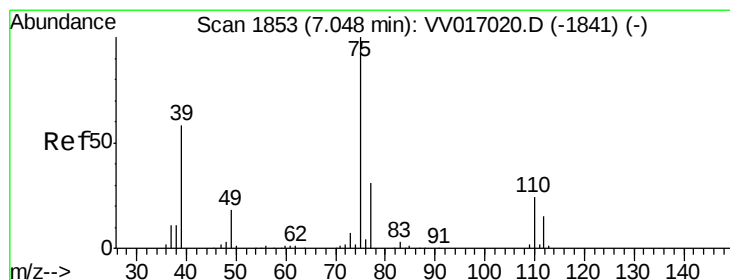
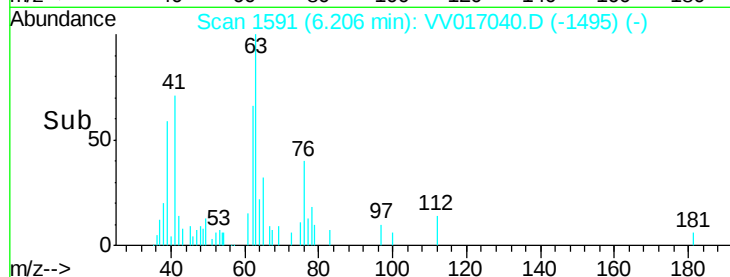
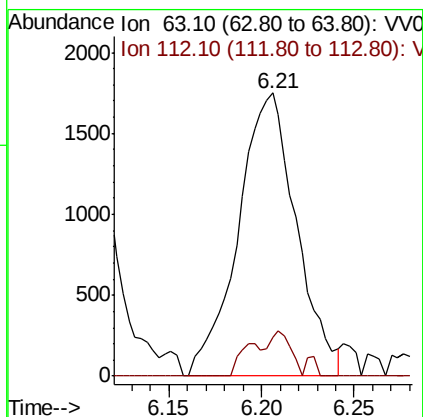
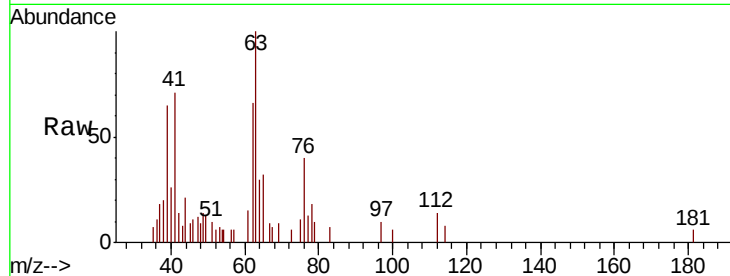




#37
 1,2-Dichloropropane
 Concen: 0.342 ug/L
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV017040.D
 Acq: 23 Jun 2020 00:33

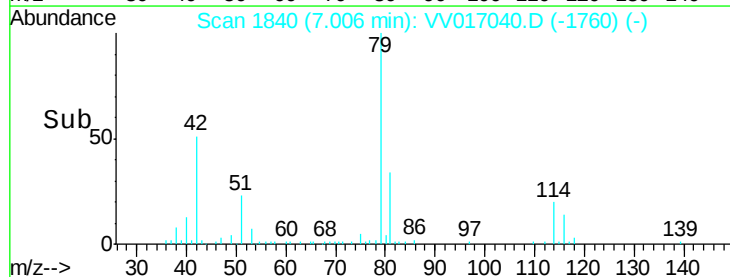
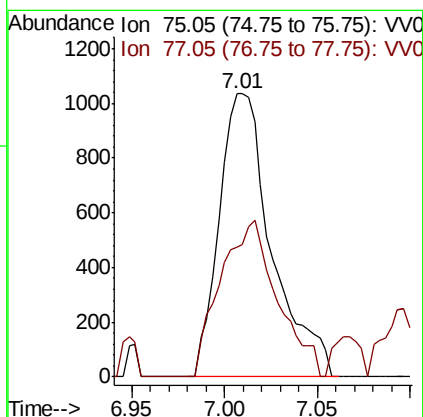
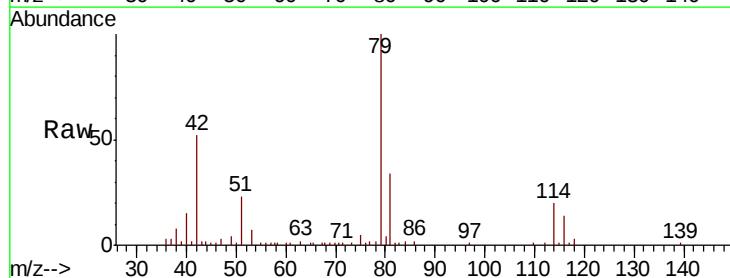
Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH3

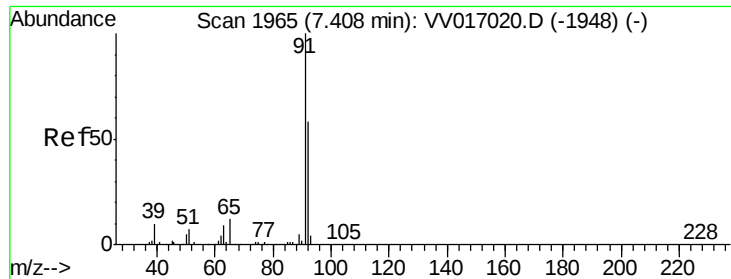
Tot Ion: 63 Resp: 3833
 Ion Ratio Lower Upper
 63 100
 112 6.2 4.4 6.6



#39
 cis-1,3-Dichloropropene
 Concen: 0.123 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV017040.D
 Acq: 23 Jun 2020 00:33

Tgt Ion: 75 Resp: 2041
 Ion Ratio Lower Upper
 75 100
 77 45.7 22.3 41.5#





#42

Toluene

Concen: 0.076 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampleId :

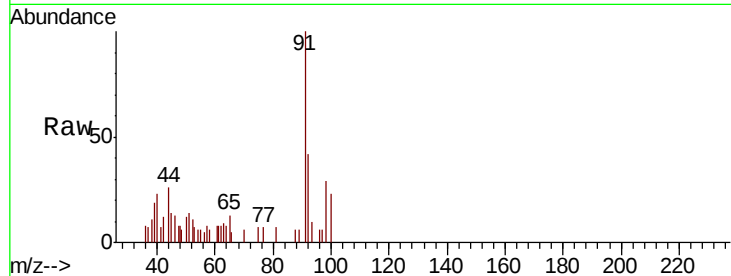
BFXH3

Tot Ion: 91 Resp: 3970

Ion Ratio Lower Upper

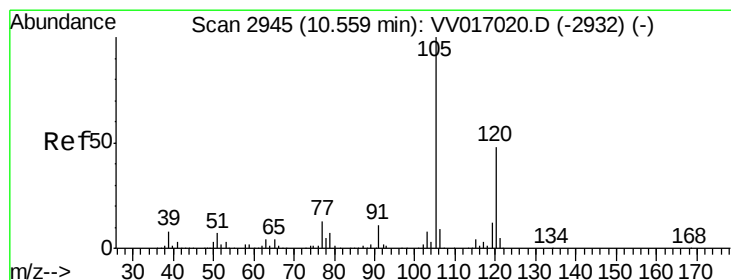
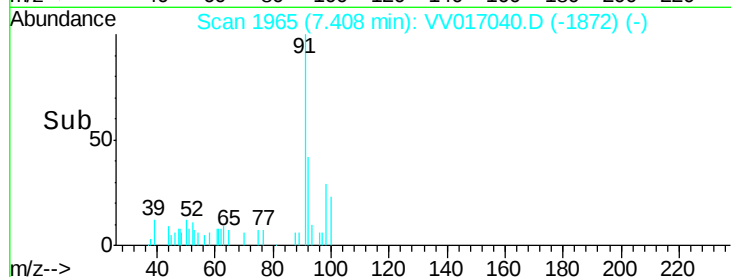
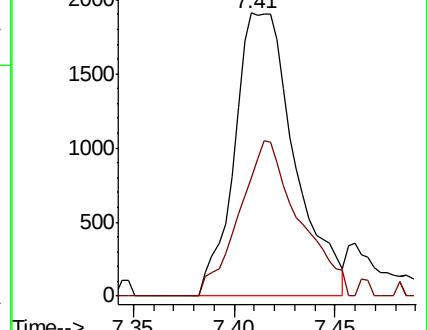
91 100

92 41.6 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017020.D (-1948) (-)

Ion 92.15 (91.85 to 92.85): VV017020.D (-1948) (-)



#43

1,3,5-Trimethylbenzene

Concen: 0.058 ug/L

RT: 10.50 min Scan# 2926

Delta R.T. -0.06 min

Lab File: VV017040.D

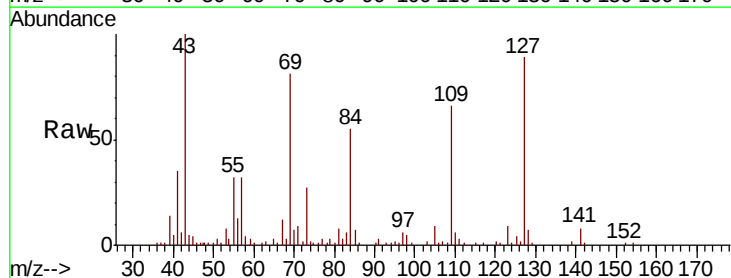
Acq: 23 Jun 2020 00:33

Tgt Ion:105 Resp: 2715

Ion Ratio Lower Upper

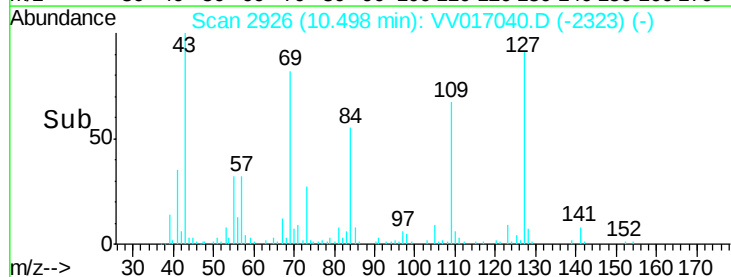
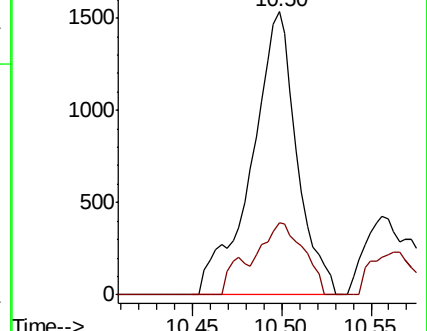
105 100

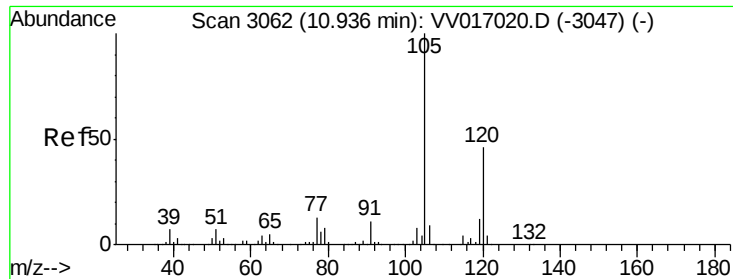
120 23.2 38.6 57.8#



Abundance Ion 105.00 (104.70 to 105.70): VV017020.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017020.D (-2932) (-)





#44

1,2,4-Trimethylbenzene

Concen: 0.092 ug/L

RT: 10.76 min Scan# 3007

Delta R.T. -0.18 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampled :

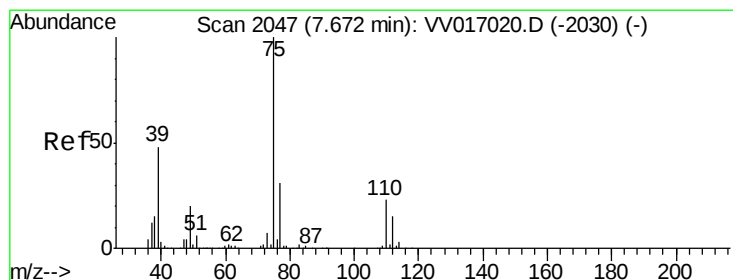
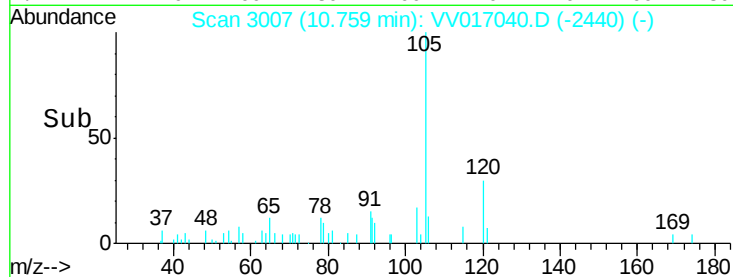
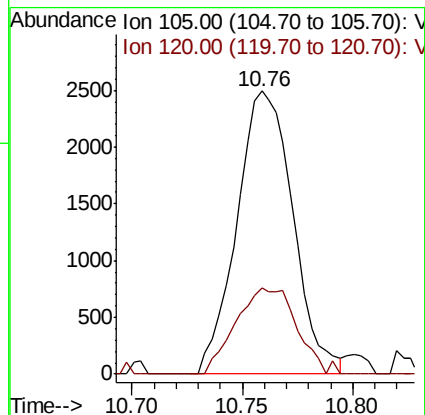
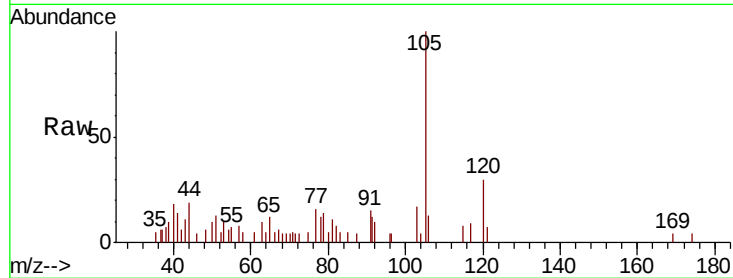
BFXH3

Tot Ion:105 Resp: 4400

Ion Ratio Lower Upper

105 100

120 33.1 35.8 53.8#



#46

trans-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV017040.D

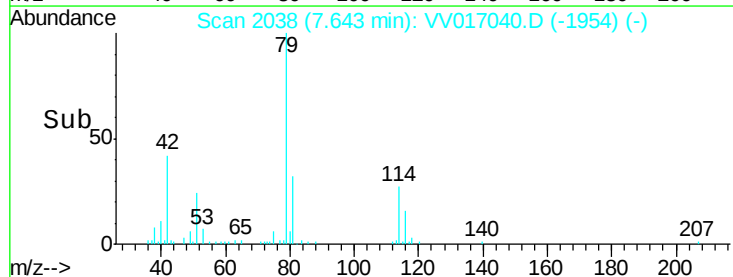
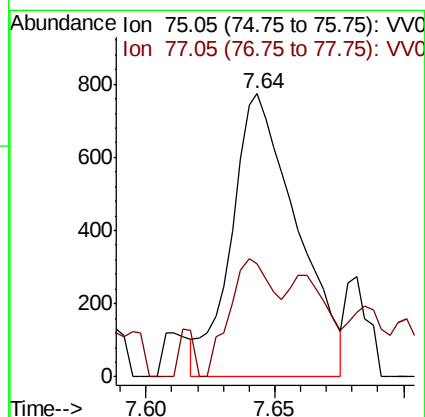
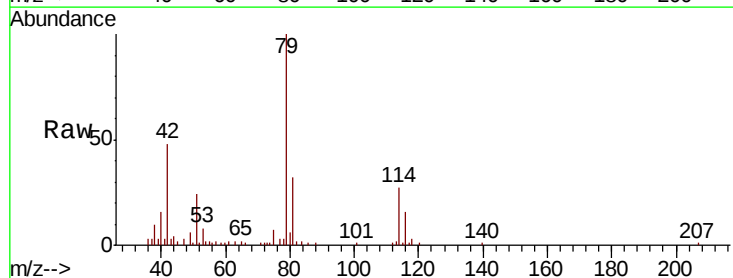
Acq: 23 Jun 2020 00:33

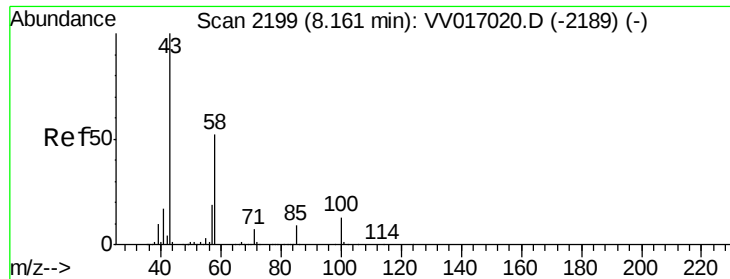
Tgt Ion: 75 Resp: 1367

Ion Ratio Lower Upper

75 100

77 39.8 22.3 41.3

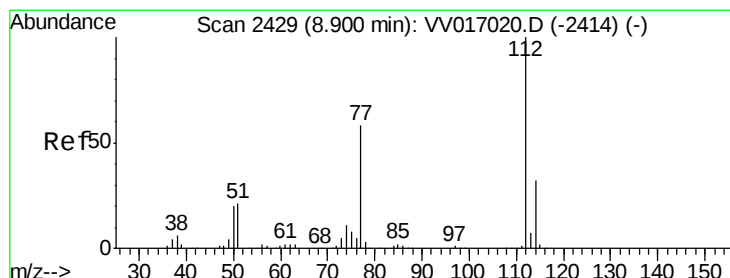
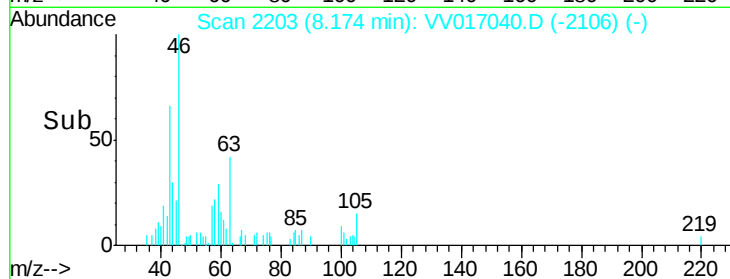
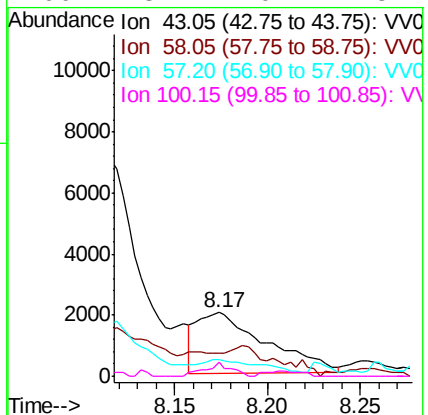
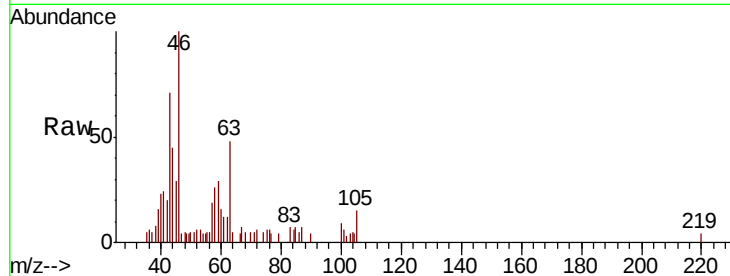




#50
2-Hexanone
Concen: 1.114 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. 0.01 min
Lab File: VV017040.D
Acq: 23 Jun 2020 00:33

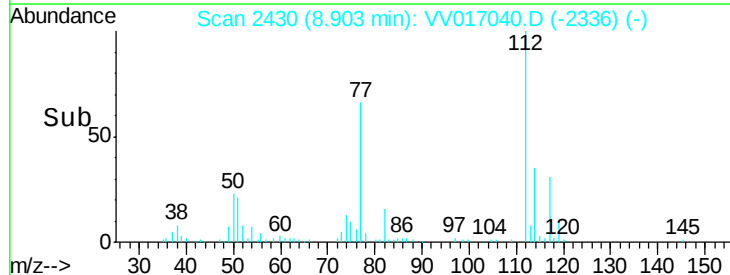
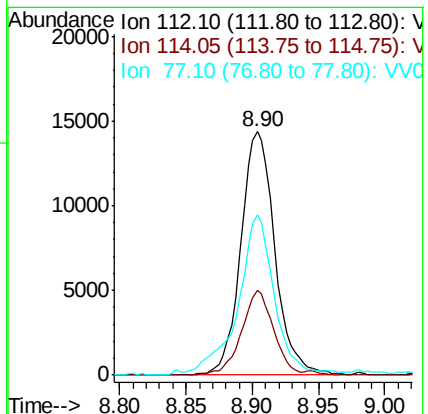
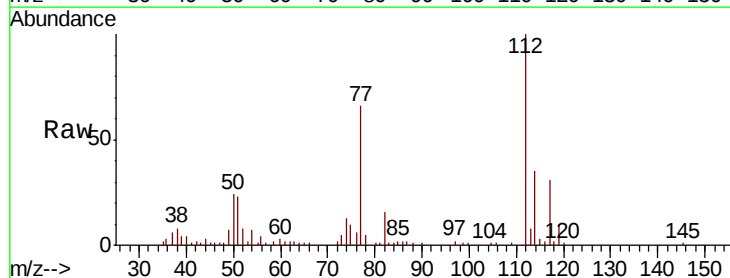
Instrument :
MSVOA_V
ClientSampleId :
BFXH3

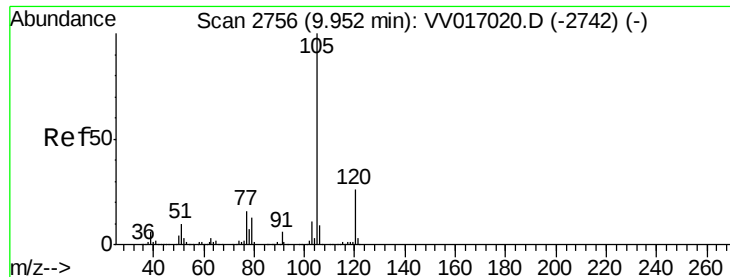
Tot Ion: 43 Resp: 5125
Ion Ratio Lower Upper
43 100
58 28.1 41.6 62.4#
57 25.4 15.4 23.0#
100 8.4 10.1 15.1#



#53
Chlorobenzene
Concen: 0.783 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV017040.D
Acq: 23 Jun 2020 00:33

Tgt Ion: 112 Resp: 25655
Ion Ratio Lower Upper
112 100
114 34.8 22.0 41.0
77 65.9 46.0 69.0





#58

Isopropylbenzene

Concen: 0.107 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampleId :

BFXH3

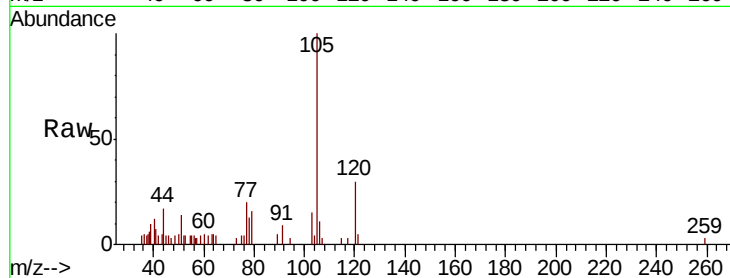
Tot Ion:105 Resp: 6076

Ion Ratio Lower Upper

105 100

120 29.8 21.2 31.8

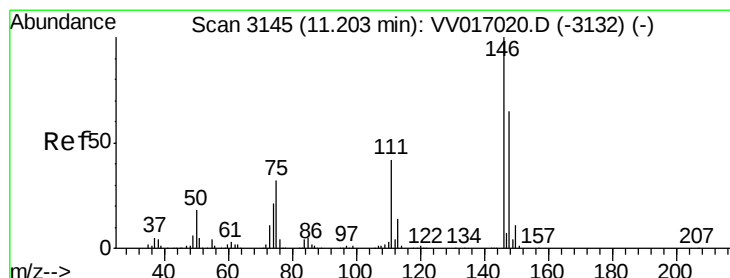
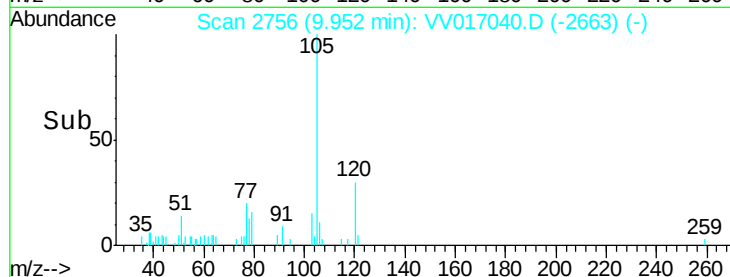
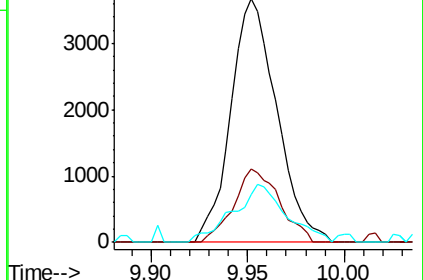
77 27.6 13.0 19.4#



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): V



#63

1,3-Dichlorobenzene

Concen: 0.143 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

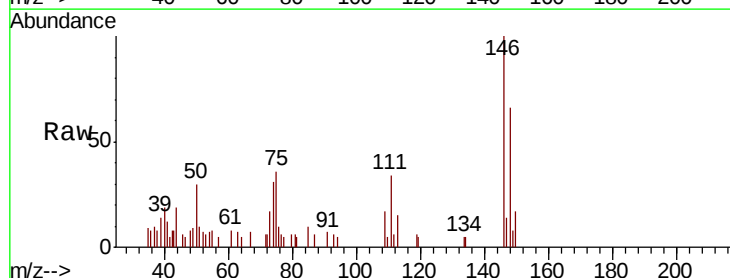
Tgt Ion:146 Resp: 3698

Ion Ratio Lower Upper

146 100

111 39.6 29.2 54.2

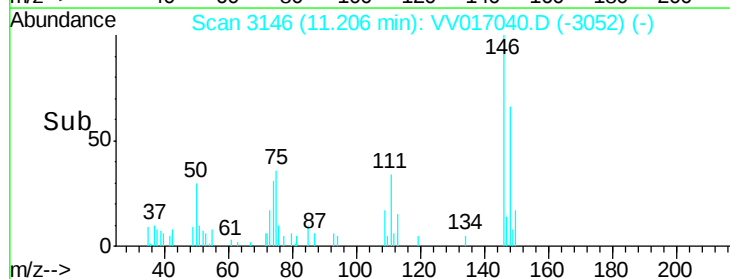
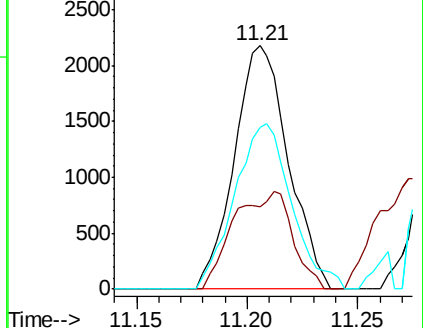
148 66.4 44.9 83.5

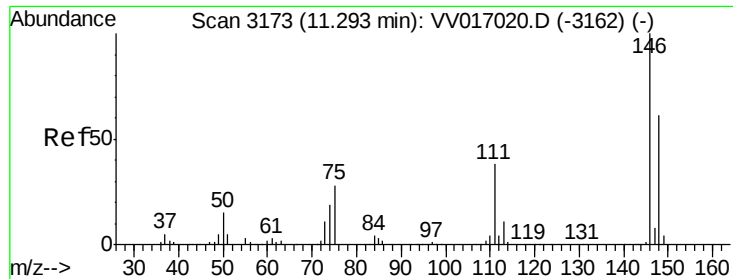


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 0.282 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

Instrument :

MSVOA_V

ClientSampleId :

BFXH3

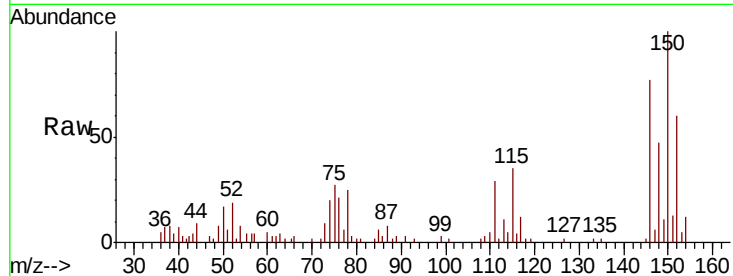
Tot Ion:146 Resp: 7431

Ion Ratio Lower Upper

146 100

111 37.8 27.4 50.8

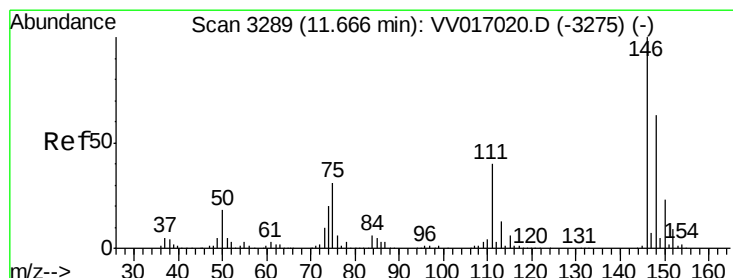
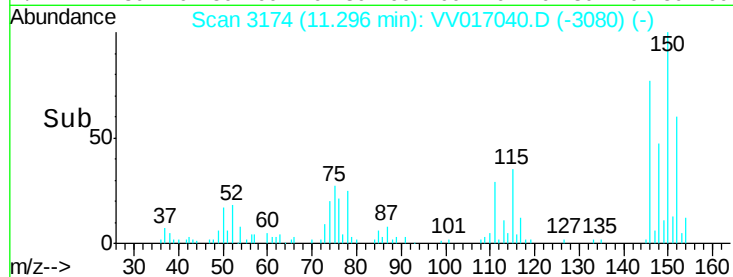
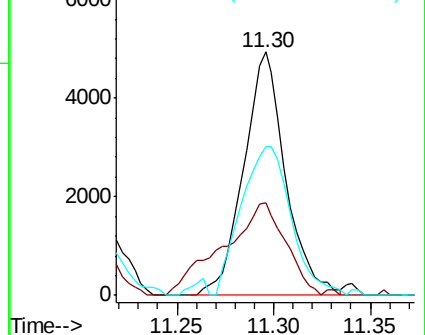
148 61.2 44.3 82.3



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



#66

1,2-Dichlorobenzene

Concen: 3.483 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017040.D

Acq: 23 Jun 2020 00:33

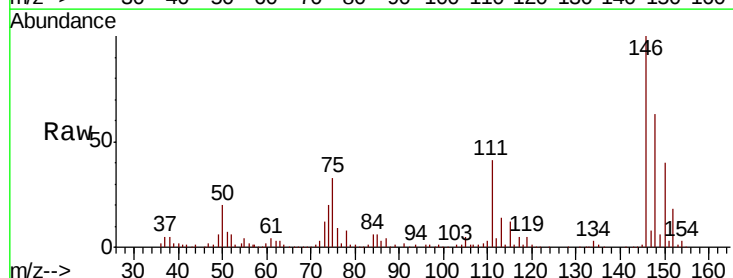
Tgt Ion:146 Resp: 81891

Ion Ratio Lower Upper

146 100

111 41.3 34.4 51.6

148 63.4 49.9 74.9



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

