

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\
 Data File : VV017149.D
 Acq On : 26 Jun 2020 00:47
 Operator : SY/MD
 Sample : L3106-17
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXN9

Quant Time: Jun 26 05:14:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jun 26 05:12:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	163066	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	158397	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	76403	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	50886	5.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.00%
7) Chloroethane-d5	1.58	69	39184	5.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.20%
11) 1,1-Dichloroethene-d2	2.12	63	74504	4.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.00%
20) 2-Butanone-d5	3.95	46	117762	47.21	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.42%
24) Chloroform-d	4.38	84	110470	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
26) 1,2-Dichloroethane-d4	5.06	65	59499	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.07	84	204133	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.10	67	59727	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.34	98	174445	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
45) trans-1,3-Dichloropropene-	7.64	79	21691	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
48) 2-Hexanone-d5	8.11	63	85522	43.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.62%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	41208	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	75343	5.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	3449	0.322	ug/L # 74
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	775	0.090	ug/L # 19
12) 1,1-Dichloroethene	2.13	96	1237	0.158	ug/L # 1
13) Acetone	2.22	43	2715	2.153	ug/L 63
15) Methyl Acetate	2.51	43	14982	4.860	ug/L # 52
19) 1,1-Dichloroethane	3.21	63	68911	3.698	ug/L 98
21) 2-Butanone	4.11	43	512637	215.680	ug/L # 50
22) cis-1,2-Dichloroethene	3.94	96	4565	0.403	ug/L 99
25) Chloroform	4.40	83	7991	0.393	ug/L 92
29) 1,1,1-Trichloroethane	4.63	97	126121	6.646	ug/L 99
30) Cyclohexane	4.70	56	4767	0.264	ug/L # 91
31) Carbon tetrachloride	4.63	117	15034	0.878	ug/L 98
35) Methylcyclohexane	6.09	83	15410	0.816	ug/L # 18
39) cis-1,3-Dichloropropene	7.00	75	2332	0.153	ug/L 94
43) 1,3,5-Trimethylbenzene	10.94	105	31953	0.741	ug/L 95
44) 1,2,4-Trimethylbenzene	10.94	105	31953	0.728	ug/L 100
46) trans-1,3-Dichloropropene	7.64	75	1568	0.119	ug/L 98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 26 05:12:03 2020
Response via : Initial Calibration

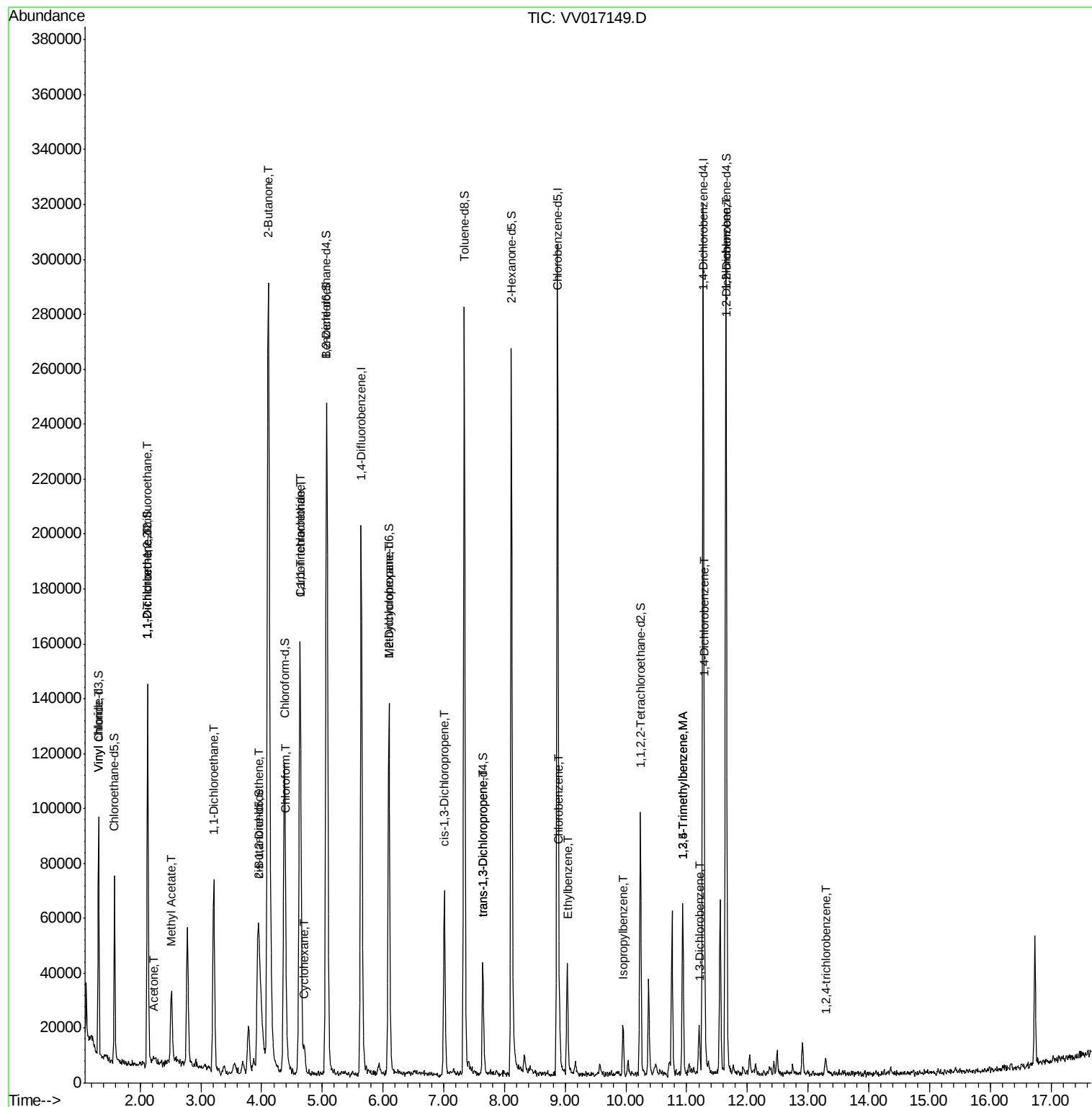
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Chlorobenzene	8.90	112	9490	0.316	ug/L	96
54) Ethylbenzene	9.04	91	26846	0.521	ug/L	98
58) Isopropylbenzene	9.95	105	9569	0.185	ug/L	98
63) 1,3-Dichlorobenzene	11.21	146	6685	0.291	ug/L	96
64) 1,4-Dichlorobenzene	11.30	146	16475	0.705	ug/L	94
66) 1,2-Dichlorobenzene	11.66	146	5233	0.251	ug/L	94
69) 1,2,4-trichlorobenzene	13.29	180	1800	0.118	ug/L	97

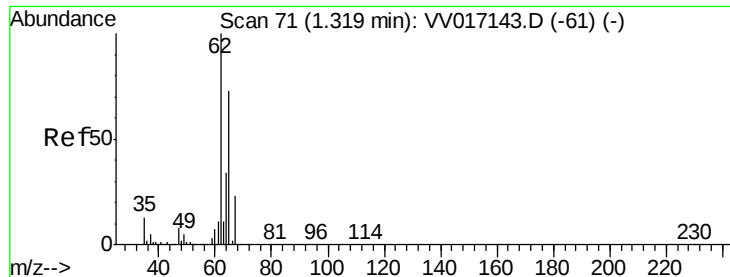
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062520\
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#5

Vinyl chloride

Concen: 0.322 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampleId :

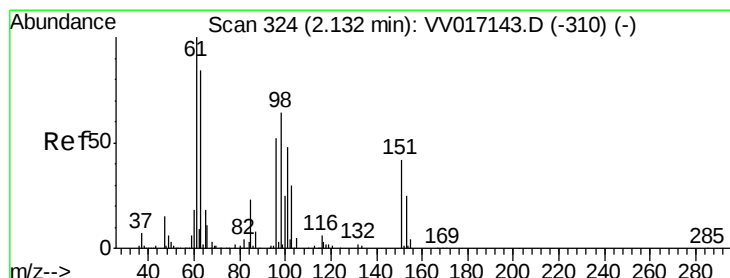
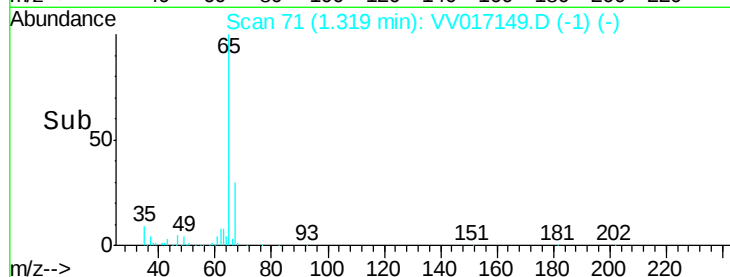
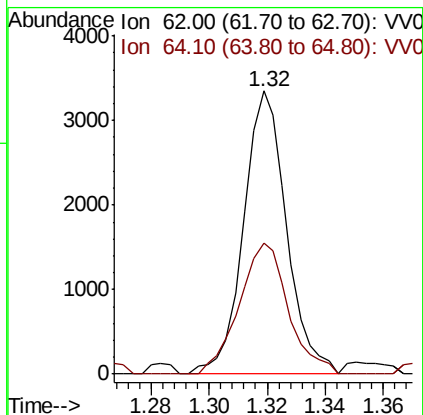
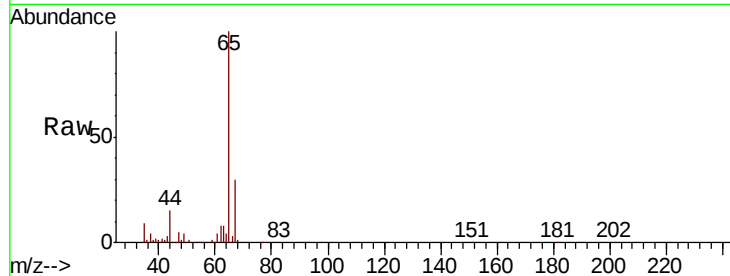
BFXN9

Tot Ion: 62 Resp: 3449

Ion Ratio Lower Upper

62 100

64 46.5 22.5 41.7#



#10

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

Concen: 0.090 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

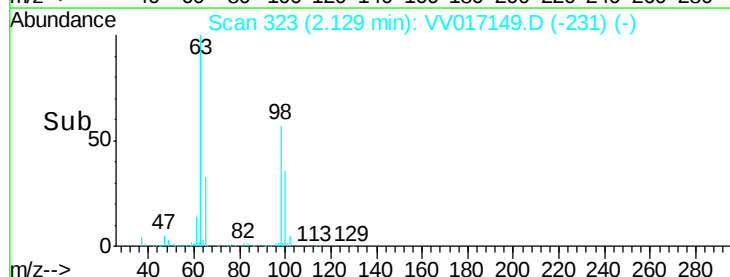
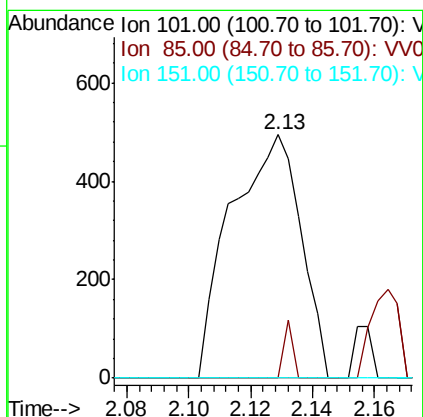
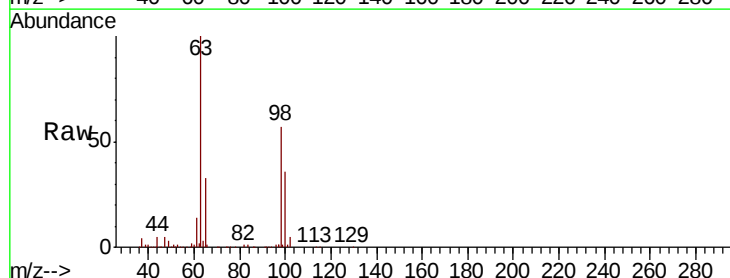
Tgt Ion: 101 Resp: 775

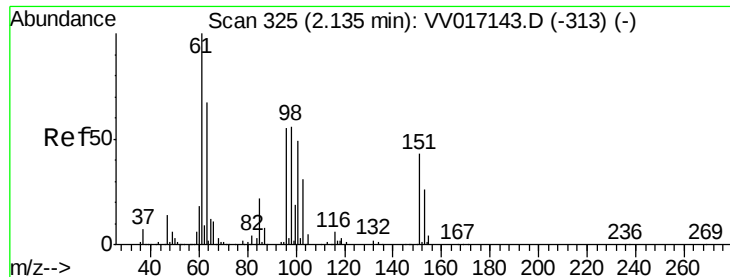
Ion Ratio Lower Upper

101 100

85 3.0 35.4 53.2#

151 0.0 63.9 95.9#





#12

1,1-Dichloroethene

Concen: 0.158 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampled :

BFXN9

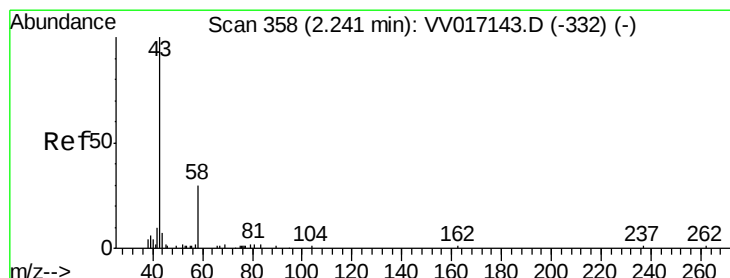
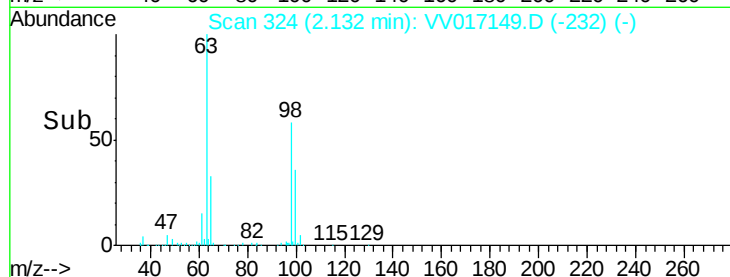
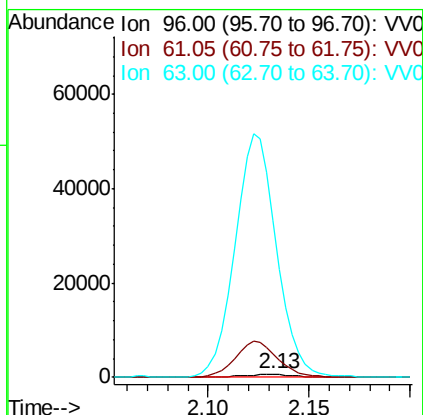
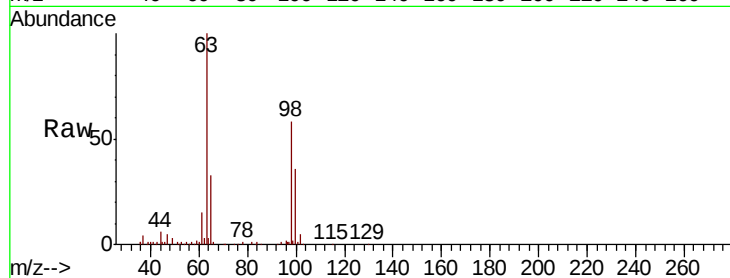
Tot Ion: 96 Resp: 1237

Ion Ratio Lower Upper

96 100

61 456.6 125.0 232.2#

63 3113.1 109.8 203.8#



#13

Acetone

Concen: 2.153 ug/L

RT: 2.22 min Scan# 351

Delta R.T. -0.02 min

Lab File: VV017149.D

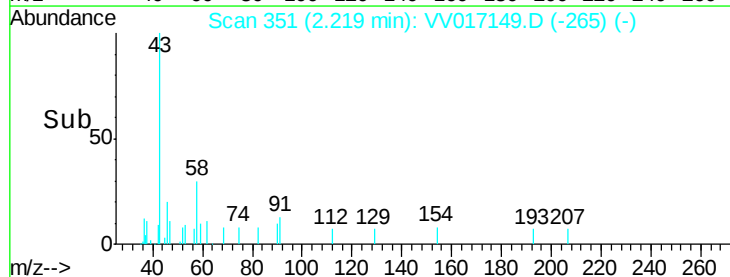
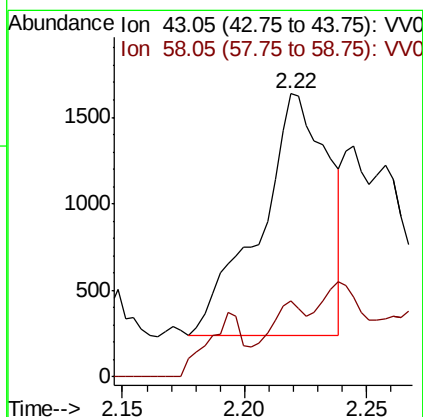
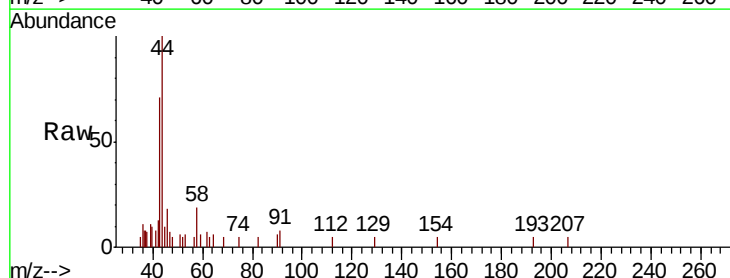
Acq: 26 Jun 2020 00:47

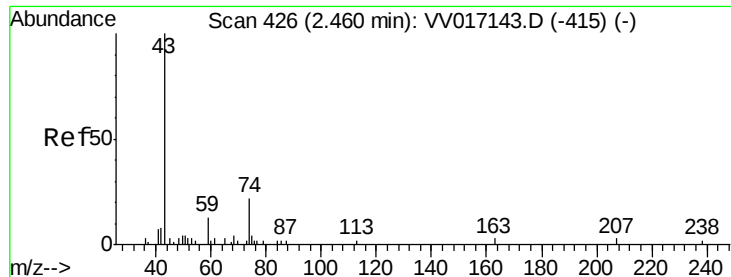
Tgt Ion: 43 Resp: 2715

Ion Ratio Lower Upper

43 100

58 9.5 0.0 58.4





#15

Methvl Acetate

Concen: 4.860 ug/L

RT: 2.51 min Scan# 443

Delta R.T. 0.05 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampleId :

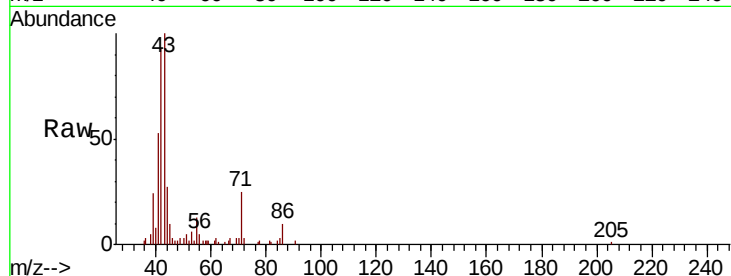
BFXN9

Tot Ion: 43 Resp: 14982

Ion Ratio Lower Upper

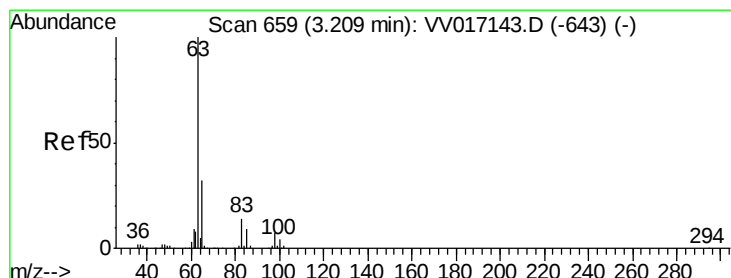
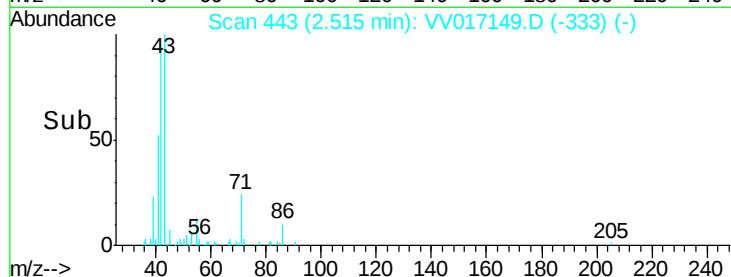
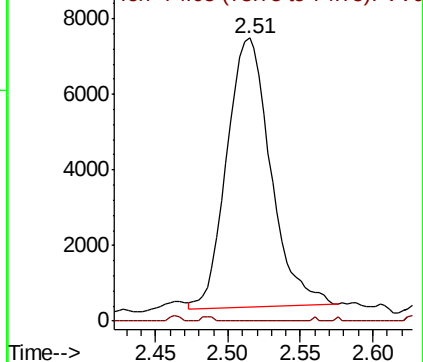
43 100

74 0.4 19.1 28.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#19

1,1-Dichloroethane

Concen: 3.698 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

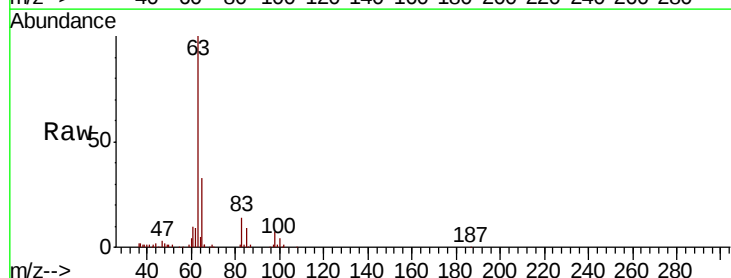
Tgt Ion: 63 Resp: 68911

Ion Ratio Lower Upper

63 100

65 32.6 21.8 40.4

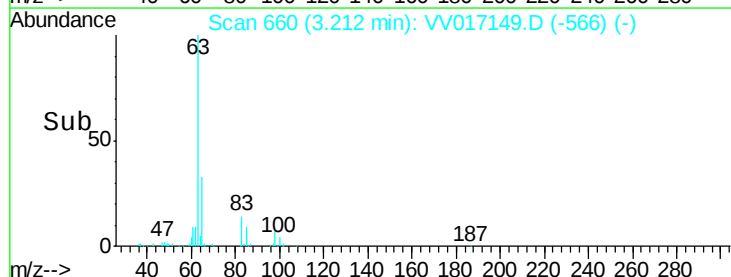
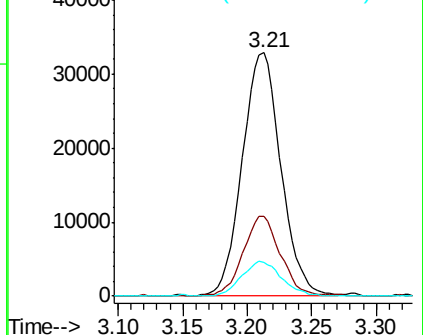
83 13.9 9.7 17.9

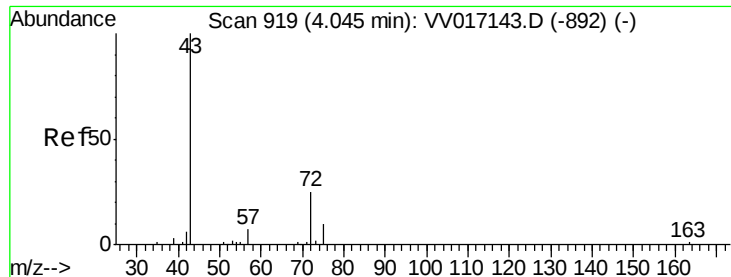


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0





#21

2-Butanone

Concen: 215.680 ug/L

RT: 4.11 min Scan# 939

Delta R.T. 0.06 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampled :

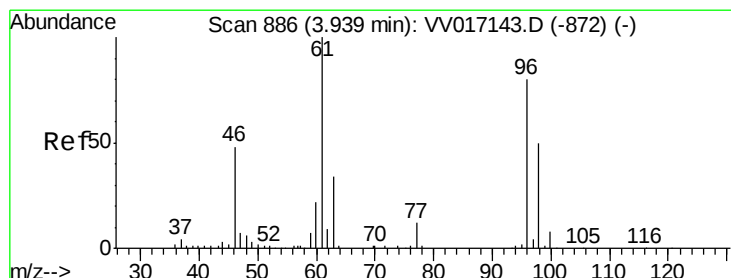
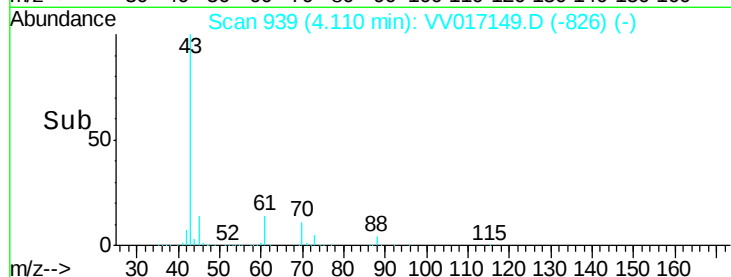
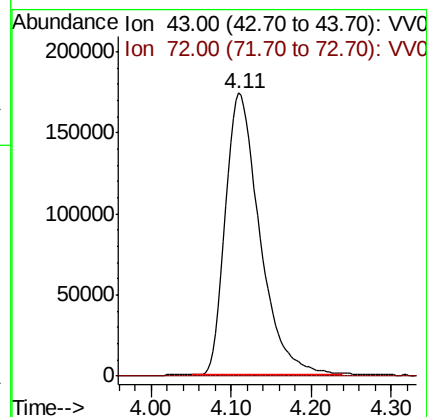
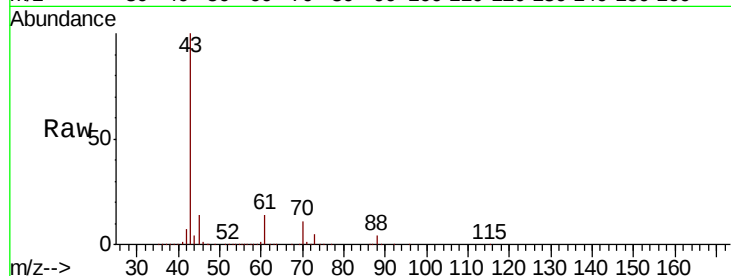
BFXN9

Tot Ion: 43 Resp: 512637

Ion Ratio Lower Upper

43 100

72 0.0 12.4 37.4#



#22

cis-1,2-Dichloroethene

Concen: 0.403 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

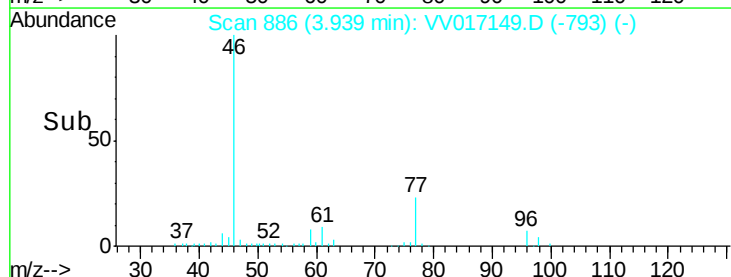
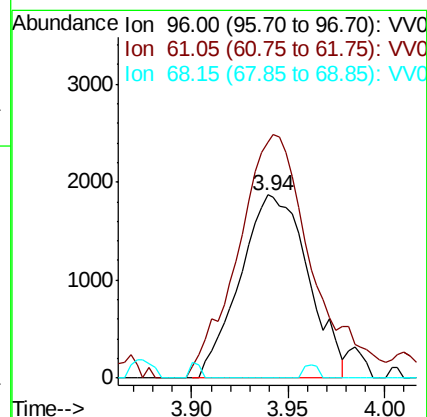
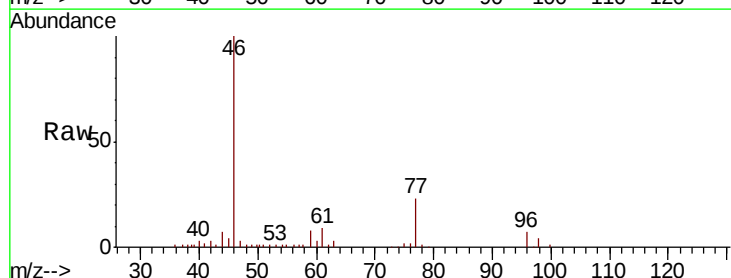
Tgt Ion: 96 Resp: 4565

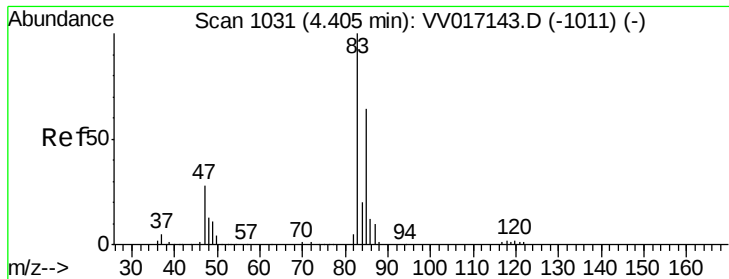
Ion Ratio Lower Upper

96 100

61 129.2 91.0 169.0

68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.393 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

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ClientSampleId :

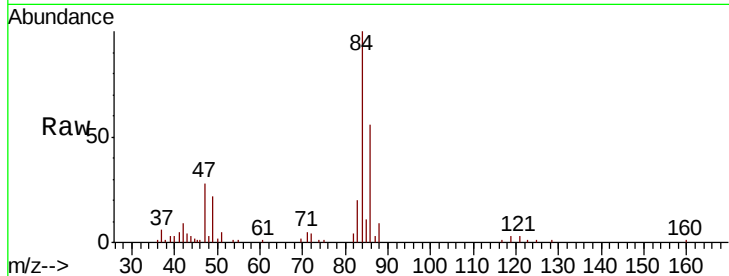
BFXN9

Tot Ion: 83 Resp: 7991

Ion Ratio Lower Upper

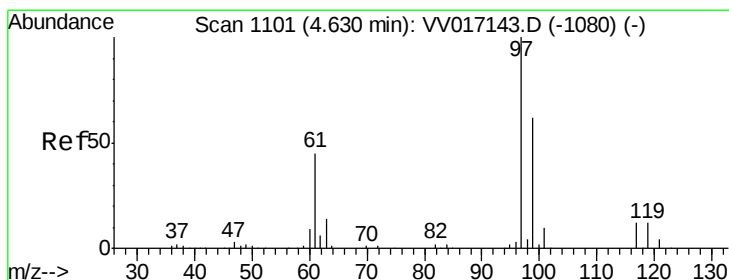
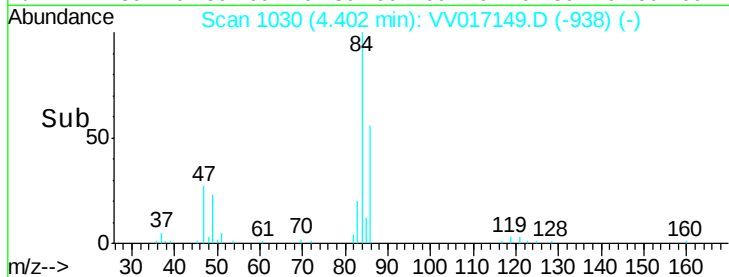
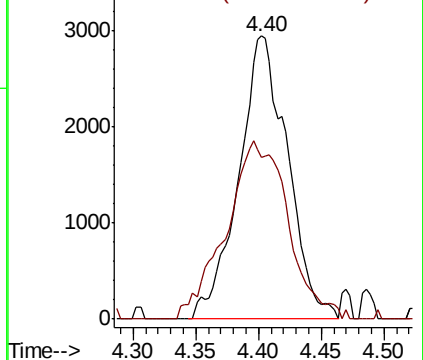
83 100

85 57.0 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#29

1,1,1-Trichloroethane

Concen: 6.646 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

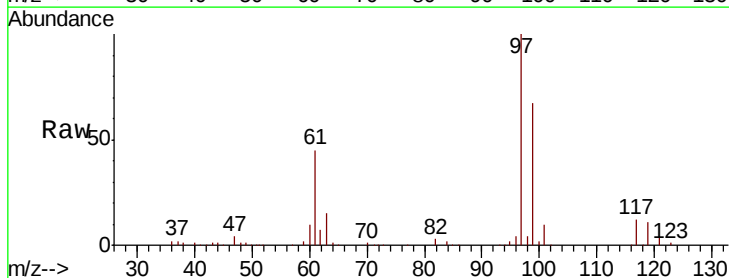
Tgt Ion: 97 Resp: 126121

Ion Ratio Lower Upper

97 100

99 64.1 50.3 75.5

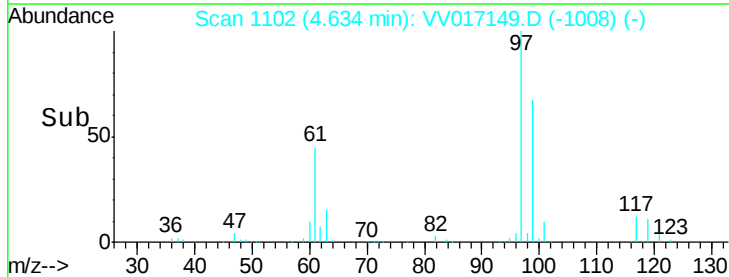
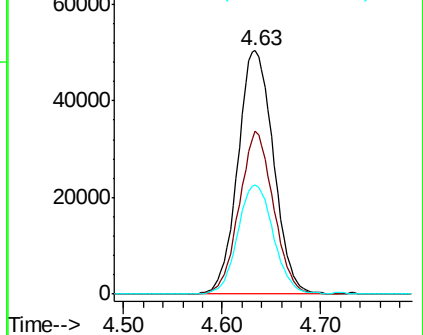
61 45.0 36.0 54.0

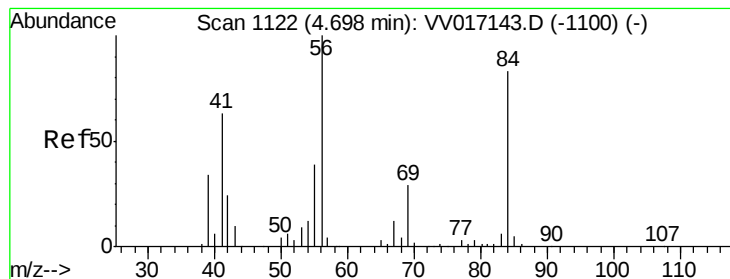


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0





#30

Cyclohexane

Concen: 0.264 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

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ClientSampled :

BFXN9

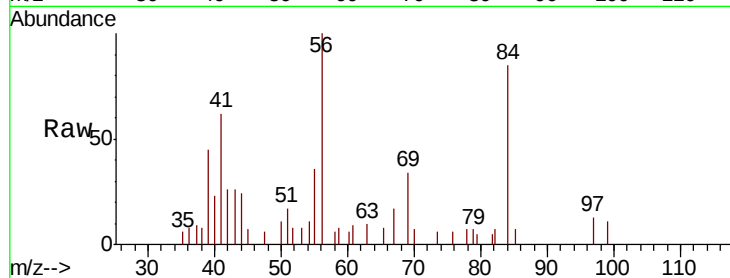
Tot Ion: 56 Resp: 4767

Ion Ratio Lower Upper

56 100

69 37.3 24.4 36.6#

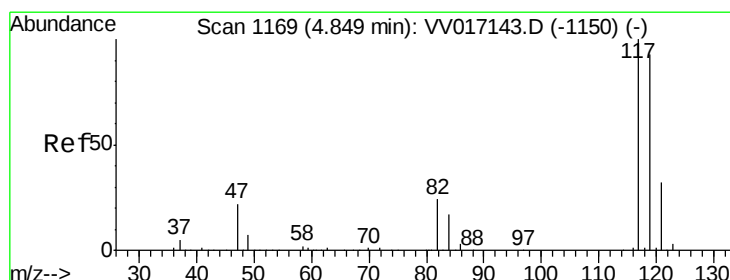
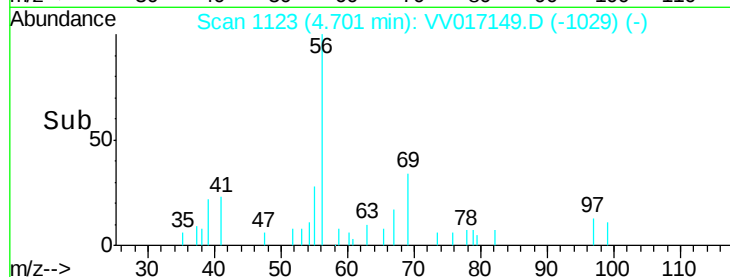
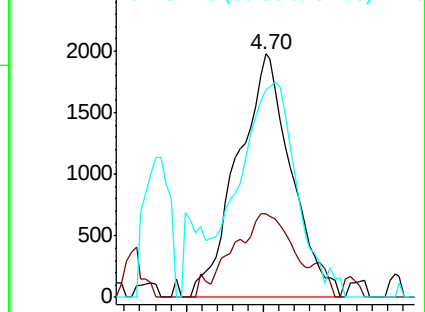
84 94.4 69.9 104.9



Abundance Ion 56.10 (55.80 to 56.80): VV017149.D (-1029) (-)

Ion 69.15 (68.85 to 69.85): VV017149.D (-1029) (-)

Ion 84.15 (83.85 to 84.85): VV017149.D (-1029) (-)



#31

Carbon tetrachloride

Concen: 0.878 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.22 min

Lab File: VV017149.D

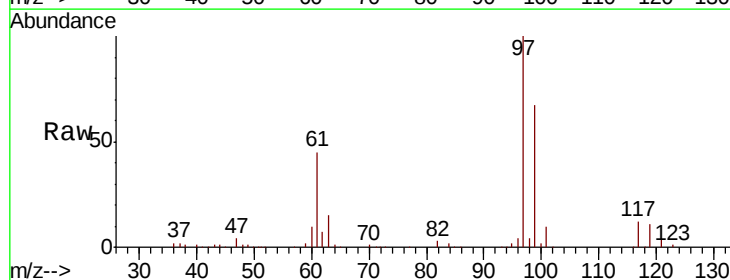
Acq: 26 Jun 2020 00:47

Tgt Ion: 117 Resp: 15034

Ion Ratio Lower Upper

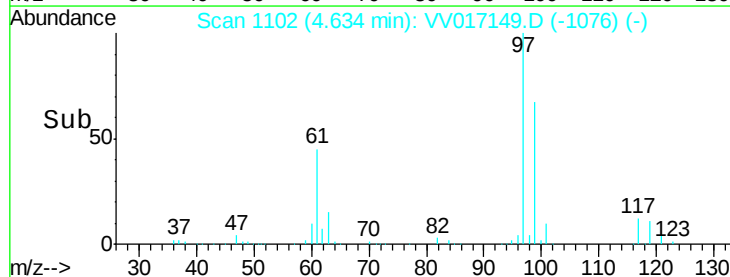
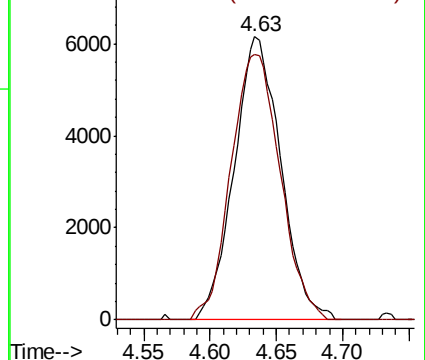
117 100

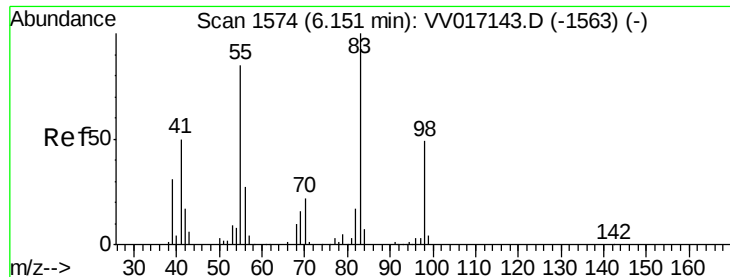
119 99.0 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): VV017149.D (-1076) (-)

Ion 118.90 (118.60 to 119.60): VV017149.D (-1076) (-)

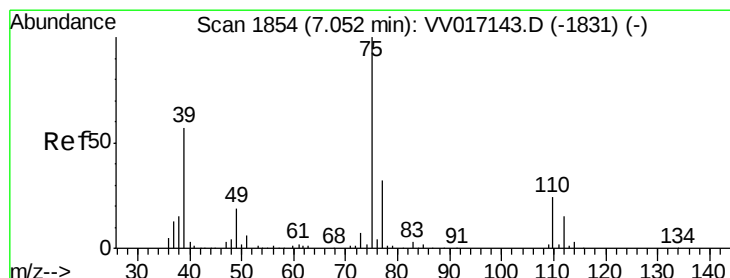
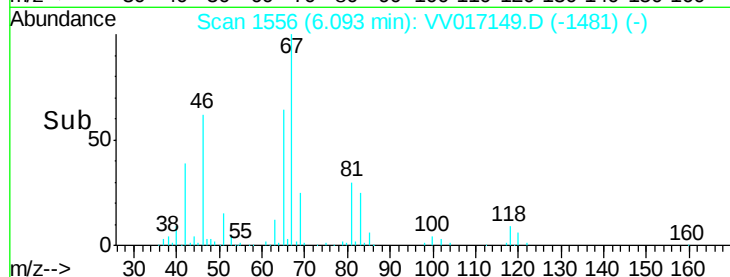
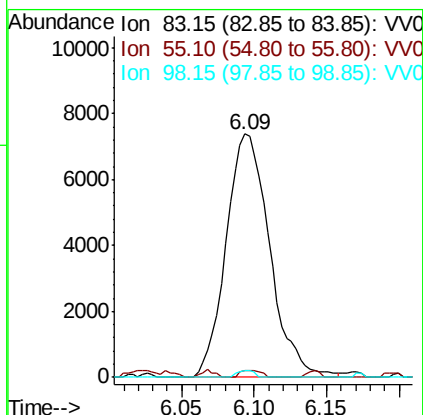
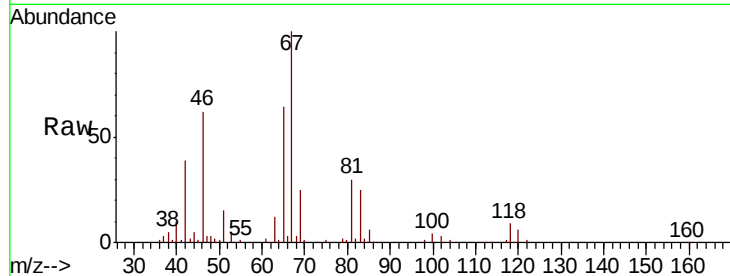




#35
Methvlcvclohexane
Concen: 0.816 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV017149.D
Acq: 26 Jun 2020 00:47

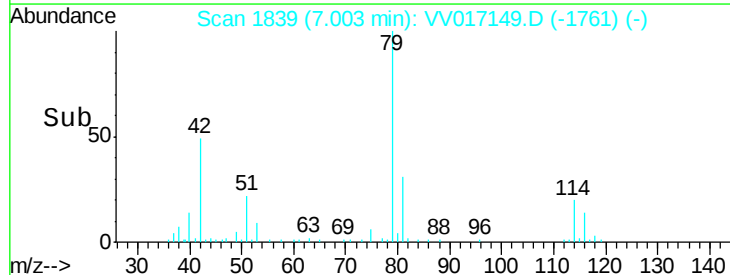
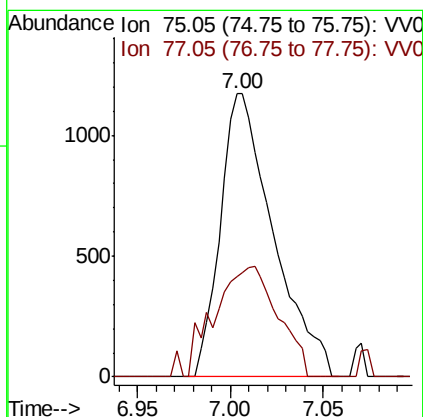
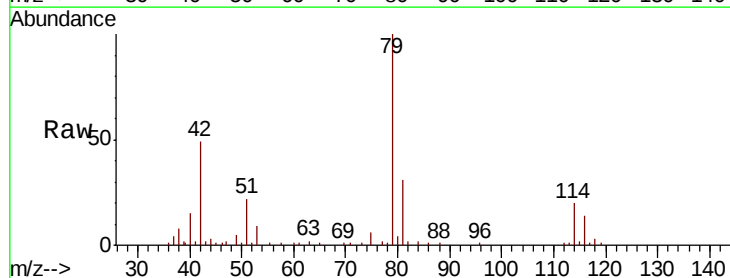
Instrument :
MSVOA_V
ClientSampleId :
BFXN9

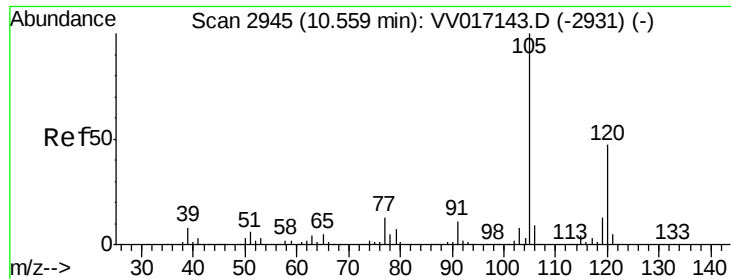
Tot Ion: 83 Resp: 15410
Ion Ratio Lower Upper
83 100
55 1.3 63.6 95.4#
98 1.1 38.8 58.2#



#39
cis-1,3-Dichloropropene
Concen: 0.153 ug/L
RT: 7.00 min Scan# 1839
Delta R.T. -0.05 min
Lab File: VV017149.D
Acq: 26 Jun 2020 00:47

Tgt Ion: 75 Resp: 2332
Ion Ratio Lower Upper
75 100
77 35.4 22.3 41.5





#43

1,3,5-Trimethylbenzene

Concen: 0.741 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.38 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampleId :

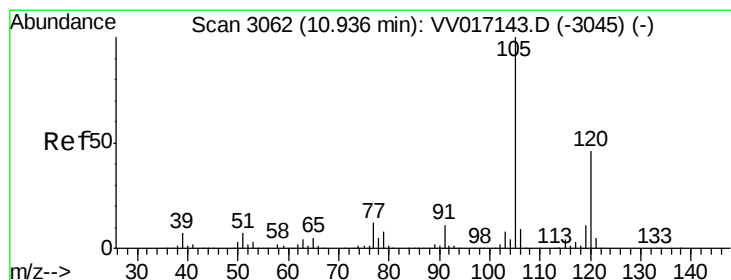
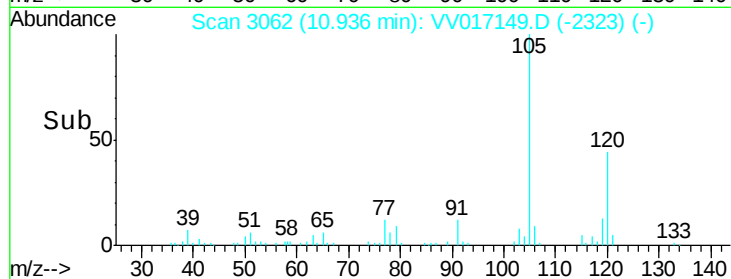
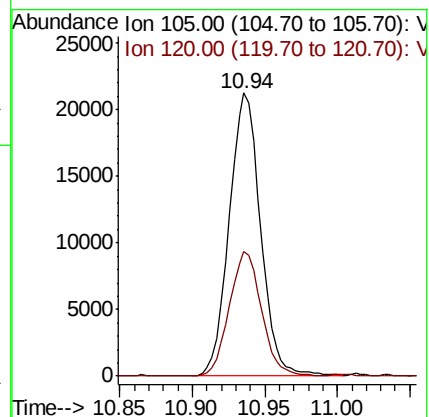
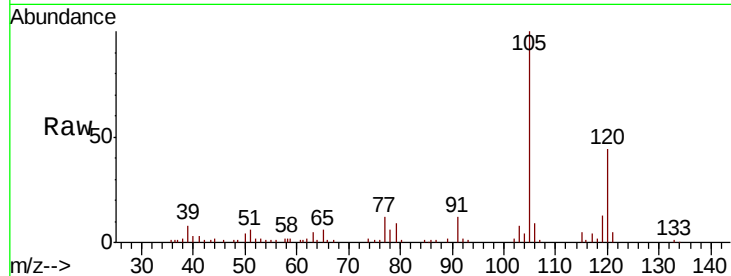
BFXN9

Tot Ion:105 Resp: 31953

Ion Ratio Lower Upper

105 100

120 45.1 38.6 57.8



#44

1,2,4-Trimethylbenzene

Concen: 0.728 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV017149.D

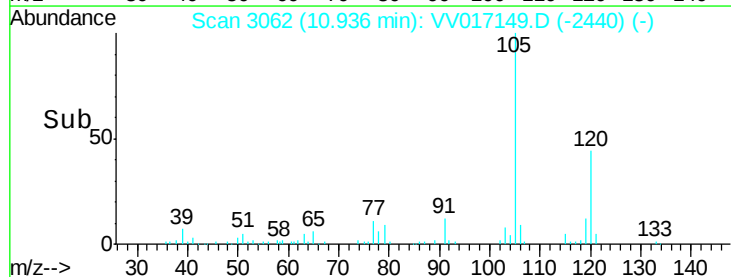
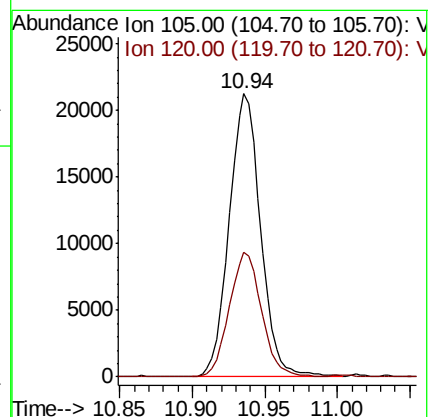
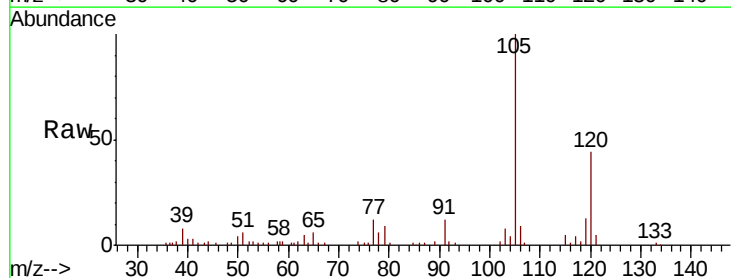
Acq: 26 Jun 2020 00:47

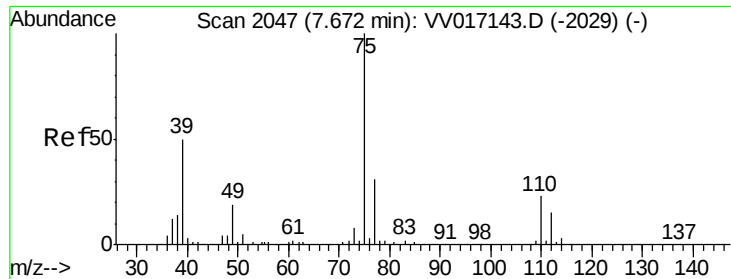
Tgt Ion:105 Resp: 31953

Ion Ratio Lower Upper

105 100

120 45.1 35.8 53.8





#46

trans-1,3-Dichloropropene

Concen: 0.119 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampleId :

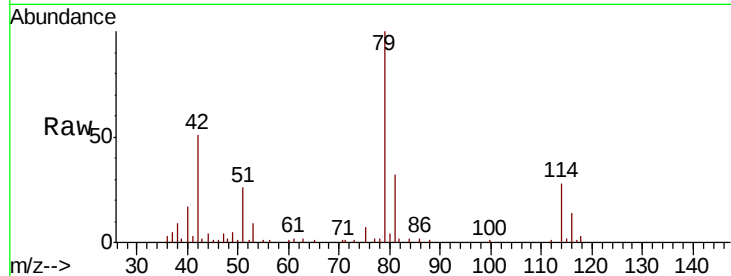
BFXN9

Tot Ion: 75 Resp: 1568

Ion Ratio Lower Upper

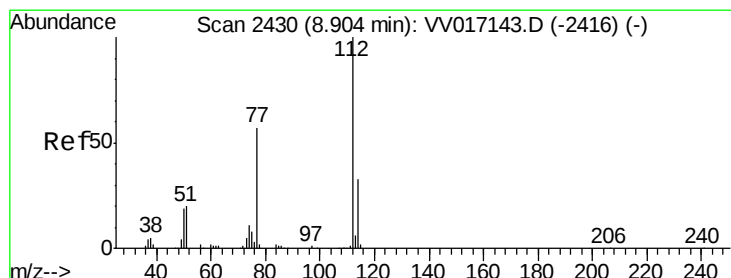
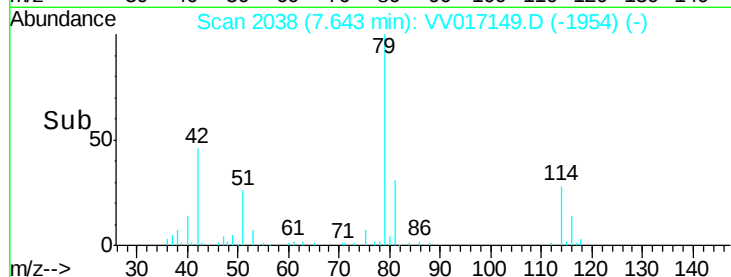
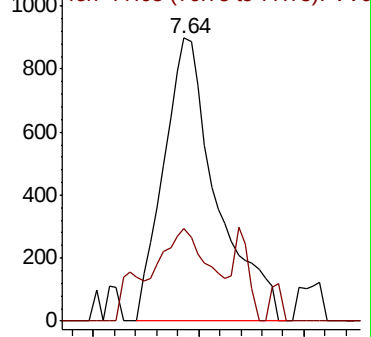
75 100

77 32.9 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#53

Chlorobenzene

Concen: 0.316 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

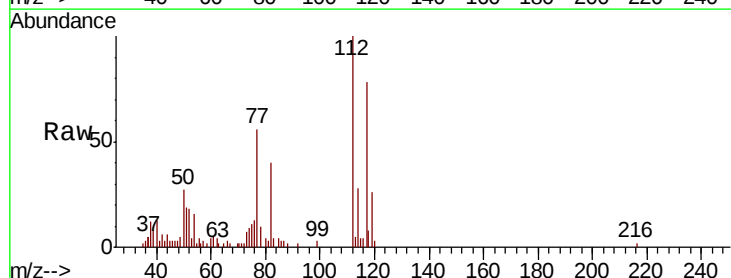
Tgt Ion: 112 Resp: 9490

Ion Ratio Lower Upper

112 100

114 27.5 22.0 41.0

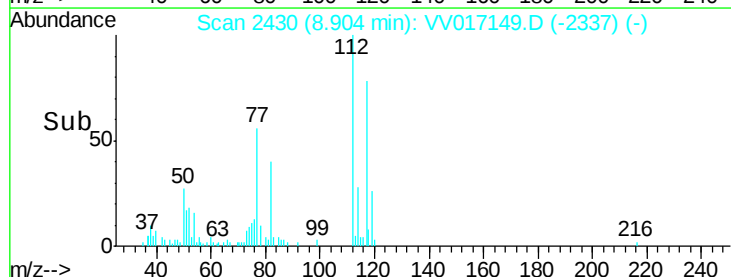
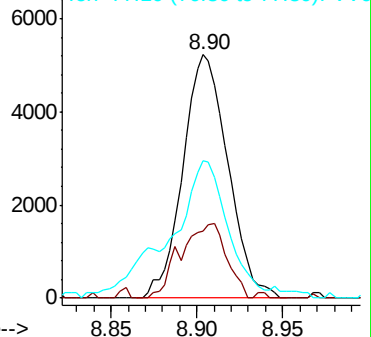
77 56.4 46.0 69.0

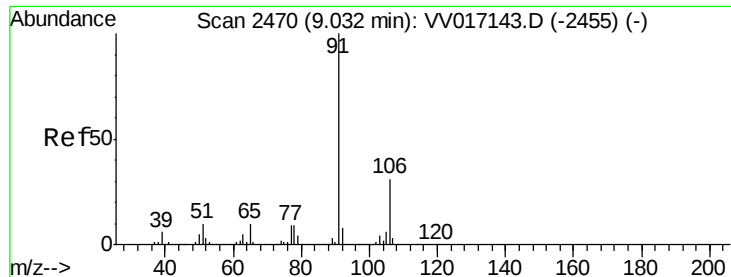


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#54

Ethylbenzene

Concen: 0.521 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampleId :

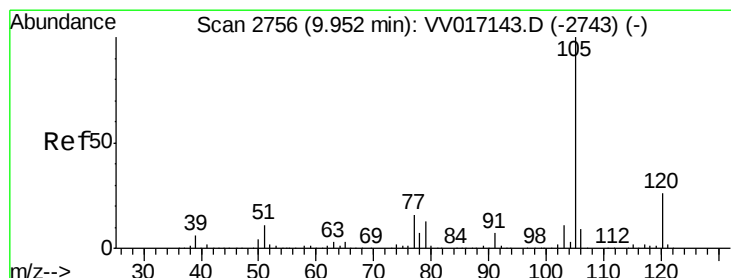
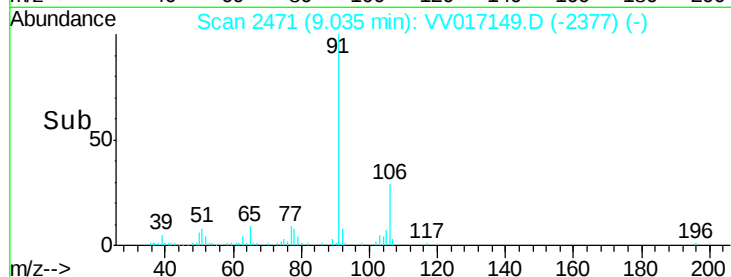
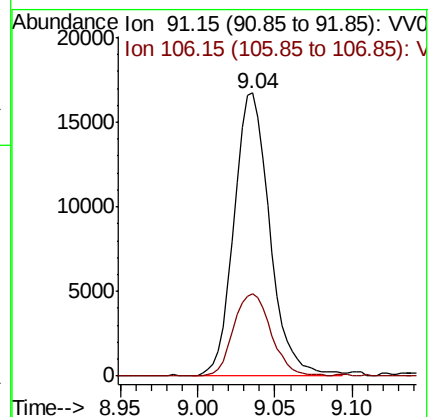
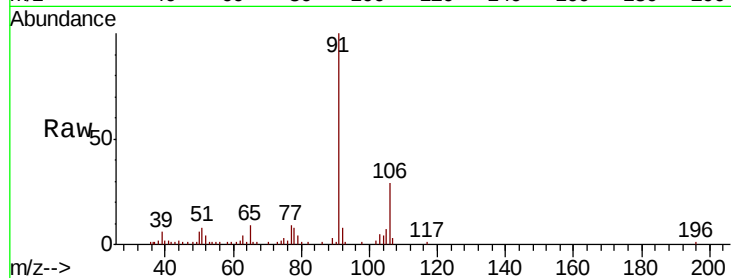
BFXN9

Tot Ion: 91 Resp: 26846

Ion Ratio Lower Upper

91 100

106 29.1 21.1 39.1



#58

Isopropylbenzene

Concen: 0.185 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

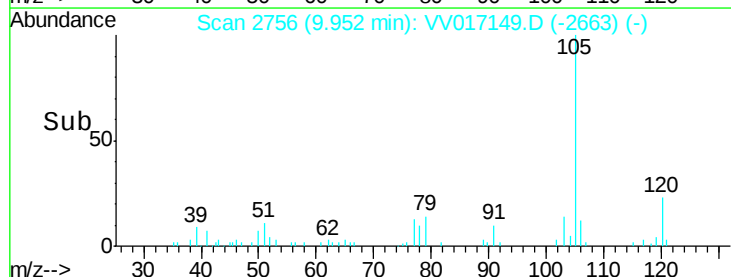
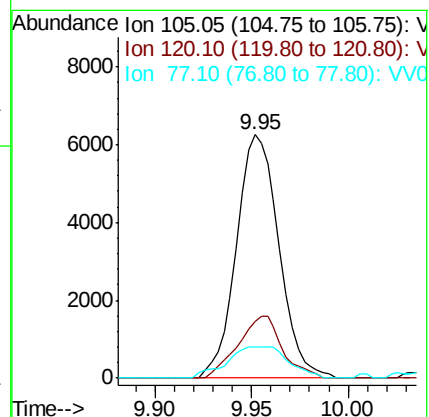
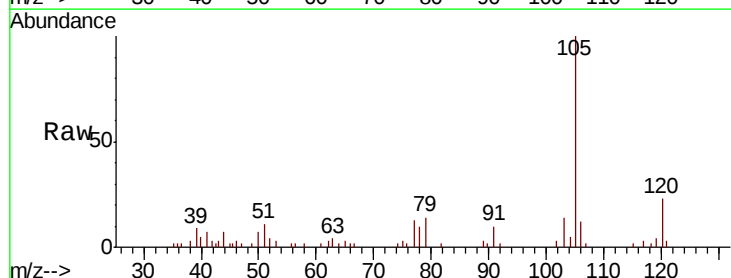
Tgt Ion: 105 Resp: 9569

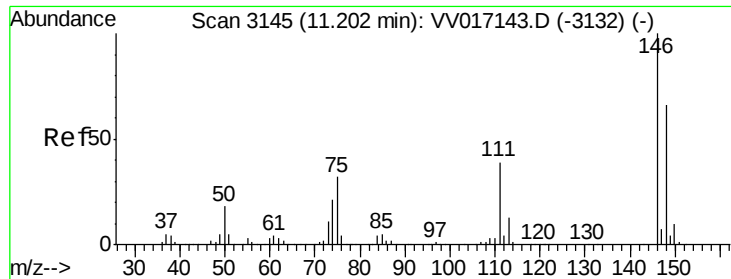
Ion Ratio Lower Upper

105 100

120 26.6 21.2 31.8

77 18.6 13.0 19.4

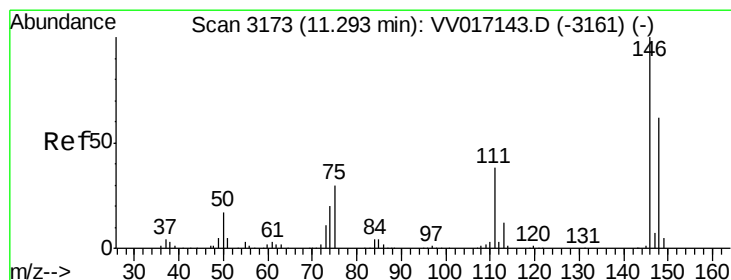
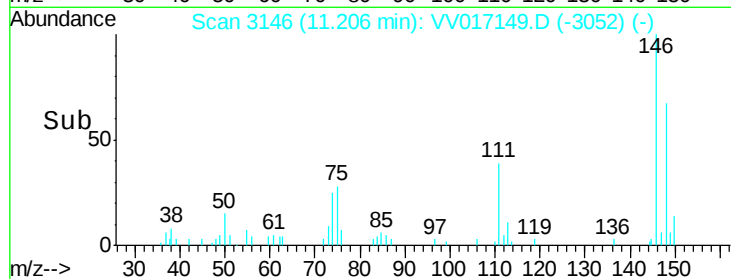
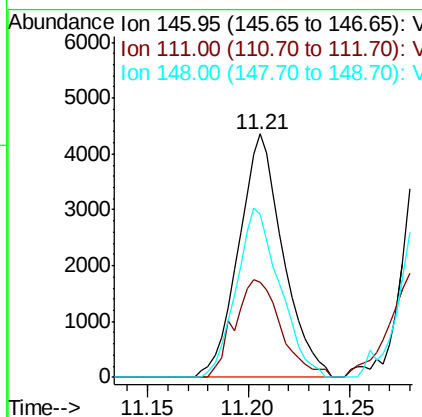
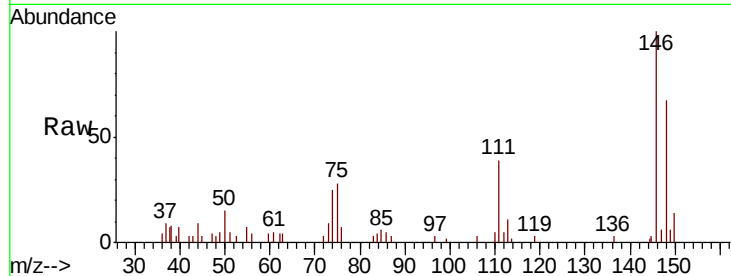




#63
 1,3-Dichlorobenzene
 Concen: 0.291 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017149.D
 Acq: 26 Jun 2020 00:47

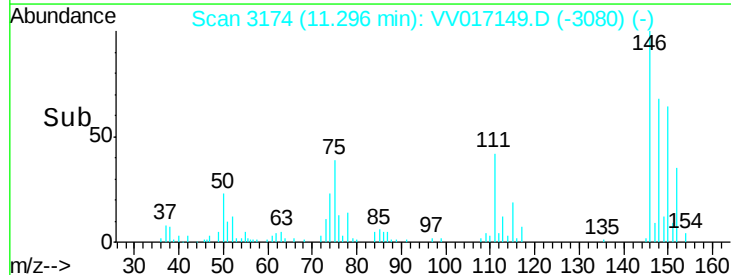
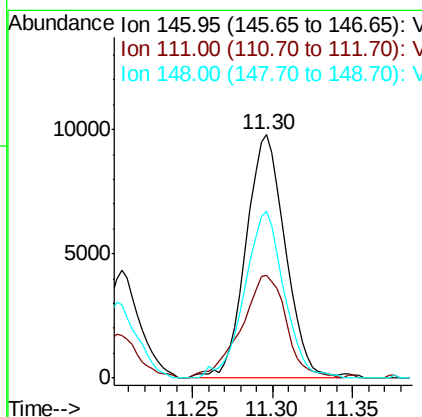
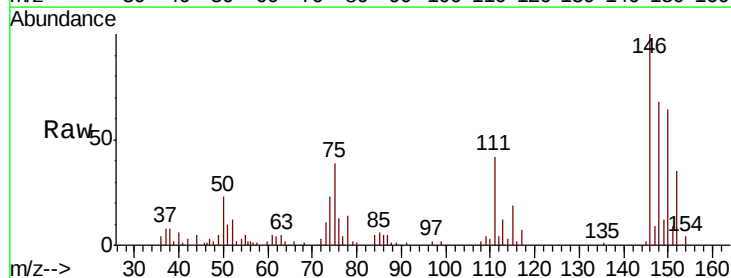
Instrument :
 MSVOA_V
 ClientSampleId :
 BFXN9

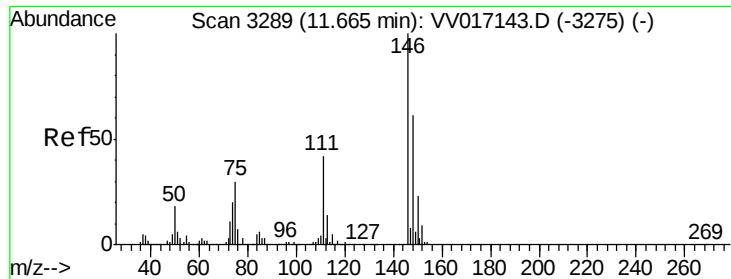
Tot Ion:146 Resp: 6685
 Ion Ratio Lower Upper
 146 100
 111 39.2 29.2 54.2
 148 67.1 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 0.705 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV017149.D
 Acq: 26 Jun 2020 00:47

Tgt Ion:146 Resp: 16475
 Ion Ratio Lower Upper
 146 100
 111 42.4 27.4 50.8
 148 68.5 44.3 82.3





#66

1,2-Dichlorobenzene

Concen: 0.251 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. -0.00 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

Instrument :

MSVOA_V

ClientSampleId :

BFXN9

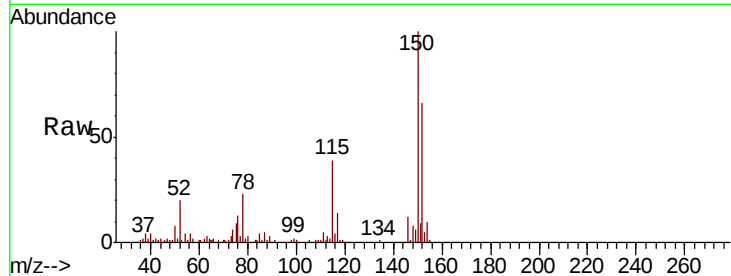
Tot Ion:146 Resp: 5233

Ion Ratio Lower Upper

146 100

111 45.9 34.4 51.6

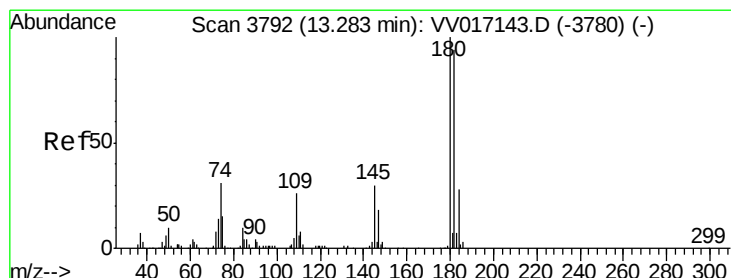
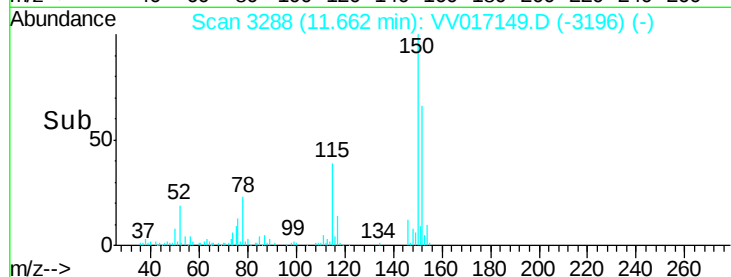
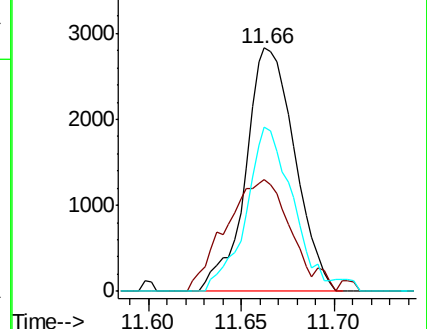
148 67.2 49.9 74.9



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



#69

1,2,4-trichlorobenzene

Concen: 0.118 ug/L

RT: 13.29 min Scan# 3795

Delta R.T. 0.01 min

Lab File: VV017149.D

Acq: 26 Jun 2020 00:47

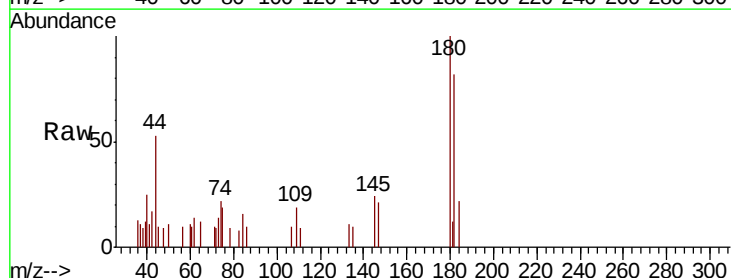
Tgt Ion:180 Resp: 1800

Ion Ratio Lower Upper

180 100

182 93.7 76.6 114.8

145 27.7 25.0 37.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

