

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\
 Data File : VV017123.D
 Acq On : 25 Jun 2020 13:35
 Operator : SY/MD
 Sample : L3105-04DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7DL

Quant Time: Jun 26 01:34:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jun 26 01:31:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	173348	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	170062	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	80296	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	56082	5.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.80%
7) Chloroethane-d5	1.58	69	43578	5.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	115.20%
11) 1,1-Dichloroethene-d2	2.12	63	82740	4.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.60%
20) 2-Butanone-d5	3.96	46	127306	48.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.02%
24) Chloroform-d	4.38	84	118645	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.60%
26) 1,2-Dichloroethane-d4	5.06	65	63362	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
32) Benzene-d6	5.07	84	228674	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.60%
36) 1,2-Dichloropropane-d6	6.10	67	64498	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.34	98	198425	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
45) trans-1,3-Dichloropropene-	7.64	79	25941	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
48) 2-Hexanone-d5	8.11	63	96171	45.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.76%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	44138	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	75871	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	120407	10.585	ug/L	99
8) Chloroethane	1.32	64	38711	6.158	ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	902	0.098	ug/L #	20
12) 1,1-Dichloroethene	2.13	96	3946	0.474	ug/L #	1
15) Methyl Acetate	2.54	43	9190	2.804	ug/L #	57
16) Methylene chloride	2.52	84	1571	0.176	ug/L	87
18) trans-1,2-Dichloroethene	2.78	96	2533	0.287	ug/L	80
19) 1,1-Dichloroethane	3.21	63	60698	3.064	ug/L	97
21) 2-Butanone	4.12	43	83206	32.931	ug/L #	50
22) cis-1,2-Dichloroethene	3.94	96	67506	5.599	ug/L #	100
27) 1,2-Dichloroethane	5.17	62	2923	0.217	ug/L	97
29) 1,1,1-Trichloroethane	4.64	97	17837	0.875	ug/L	98
30) Cyclohexane	4.70	56	7799	0.402	ug/L	97
31) Carbon tetrachloride	4.63	117	2514	0.137	ug/L	100
33) Benzene	5.13	78	14719	0.330	ug/L	100
34) Trichloroethene	5.95	95	1705	0.131	ug/L	89
35) Methylcyclohexane	6.09	83	17628	0.870	ug/L #	19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\
Data File : VV017123.D
Acq On : 25 Jun 2020 13:35
Operator : SY/MD
Sample : L3105-04DL 10X
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFXK7DL

Quant Time: Jun 26 01:34:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 26 01:31:34 2020
Response via : Initial Calibration

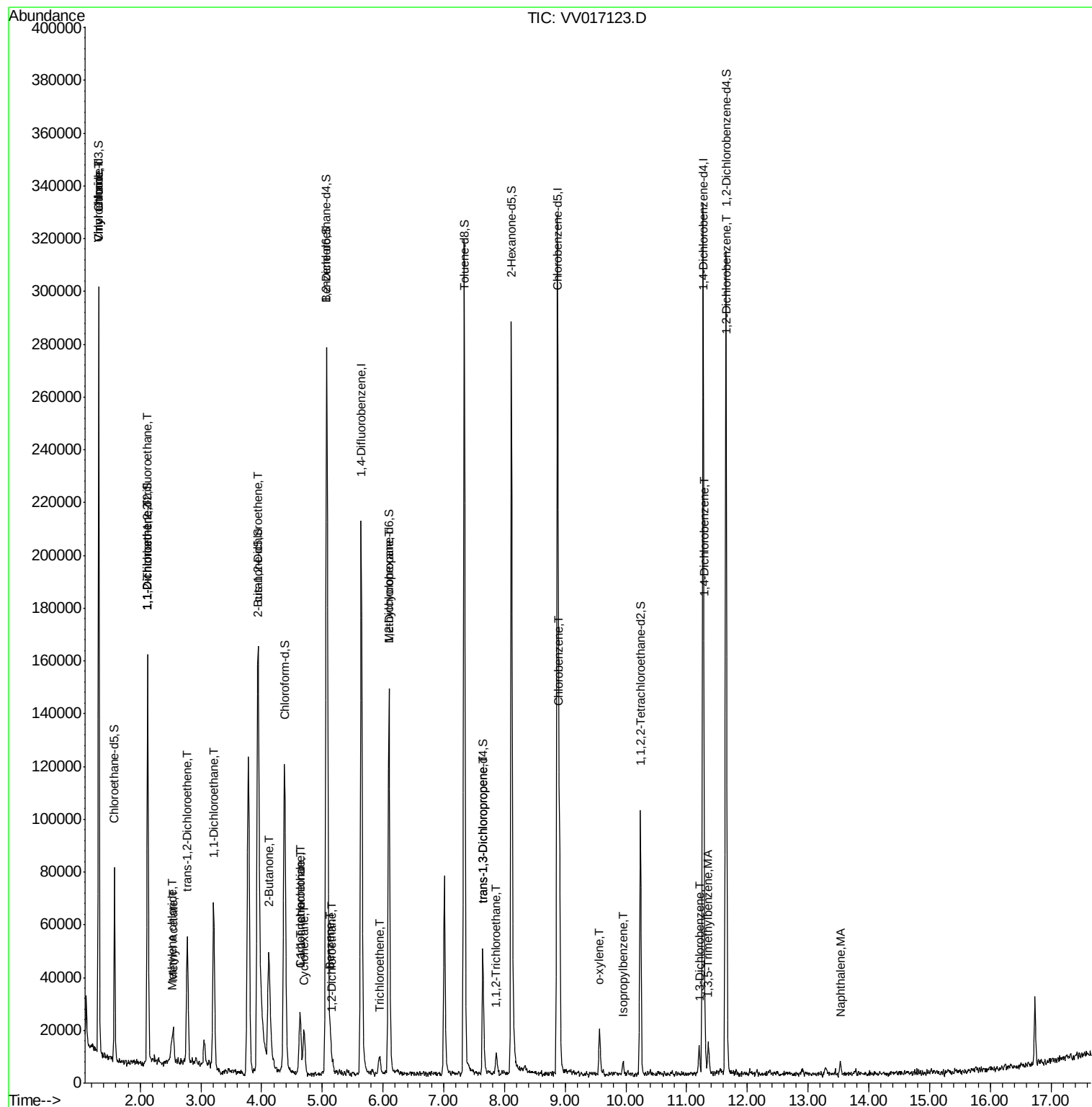
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 1,3,5-Trimethylbenzene	11.35	105	5903	0.127	ug/L	88
46) trans-1,3-Dichloropropene	7.64	75	1574	0.111	ug/L #	59
47) 1,1,2-Trichloroethane	7.87	97	2294	0.293	ug/L	85
53) Chlorobenzene	8.90	112	49361	1.529	ug/L	97
56) o-xylene	9.56	106	4530	0.224	ug/L	82
58) Isopropylbenzene	9.95	105	2886	0.052	ug/L #	92
63) 1,3-Dichlorobenzene	11.21	146	3433	0.142	ug/L	90
64) 1,4-Dichlorobenzene	11.29	146	6719	0.273	ug/L	89
66) 1,2-Dichlorobenzene	11.66	146	3838	0.175	ug/L	94
70) Naphthalene	13.53	128	3422	0.152	ug/L #	93

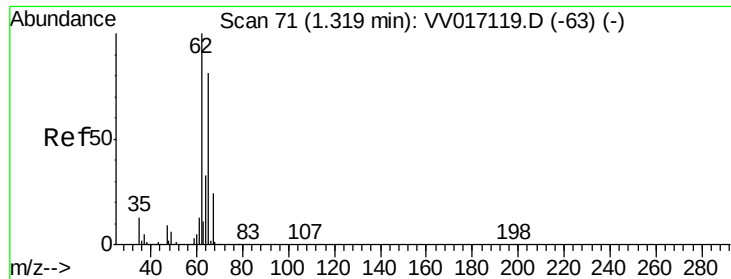
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062520\
Data File : VV017123.D
Acq On : 25 Jun 2020 13:35
Operator : SY/MD
Sample : L3105-04DL 10X
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFXK7DL

Quant Time: Jun 26 01:34:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 26 01:31:34 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 10.585 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

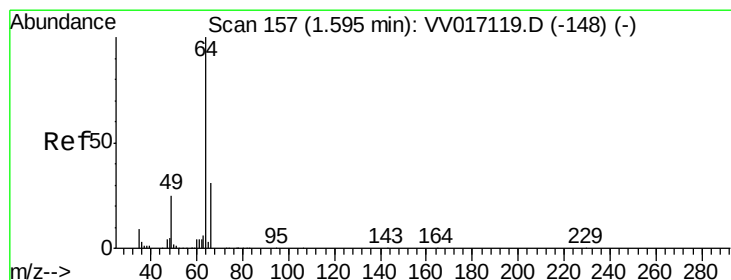
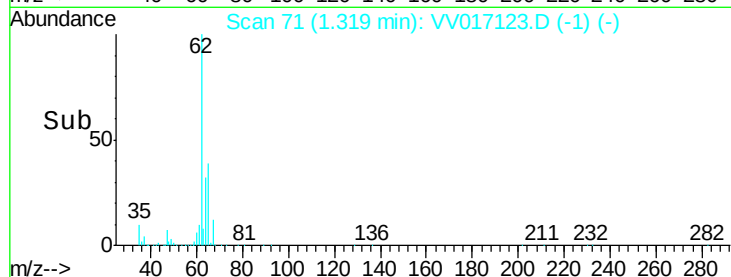
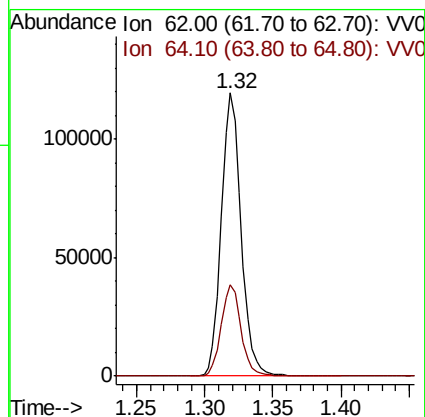
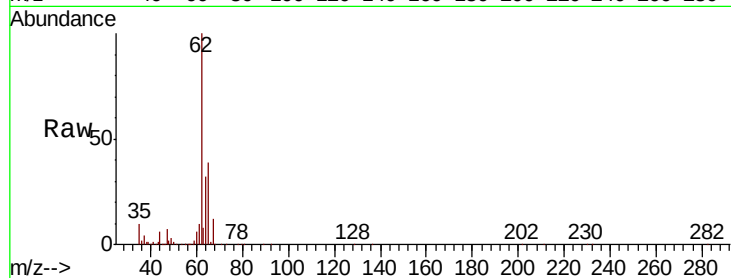
BFXK7DL

Tot Ion: 62 Resp: 120407

Ion Ratio Lower Upper

62 100

64 32.5 22.5 41.7



#8

Chloroethane

Concen: 6.158 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV017123.D

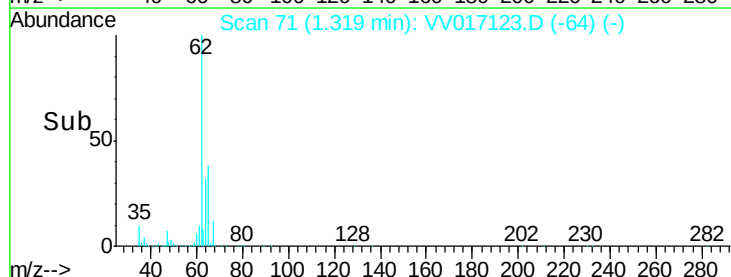
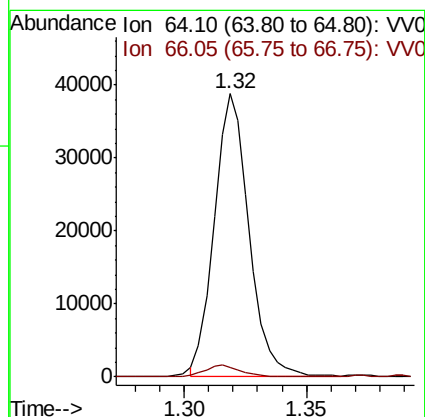
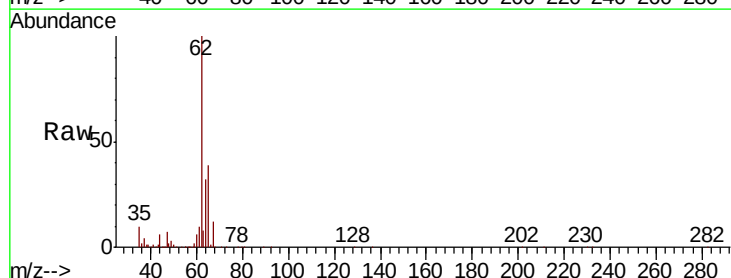
Acq: 25 Jun 2020 13:35

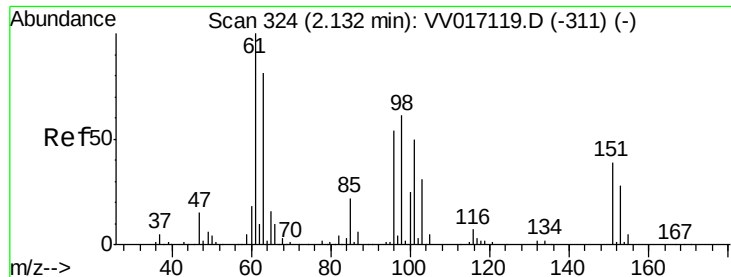
Tgt Ion: 64 Resp: 38711

Ion Ratio Lower Upper

64 100

66 3.6 22.8 42.4#





#10

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

Concen: 0.098 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

BFXK7DL

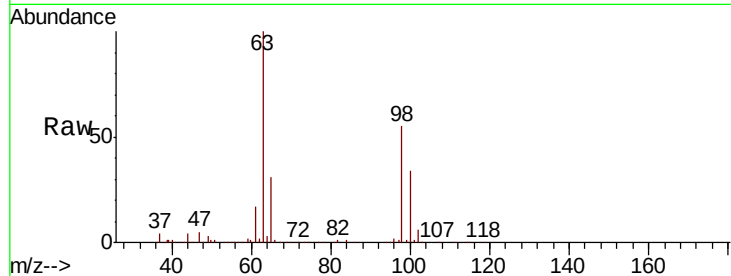
Tot Ion:101 Resp: 902

Ion Ratio Lower Upper

101 100

85 4.8 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

2.12

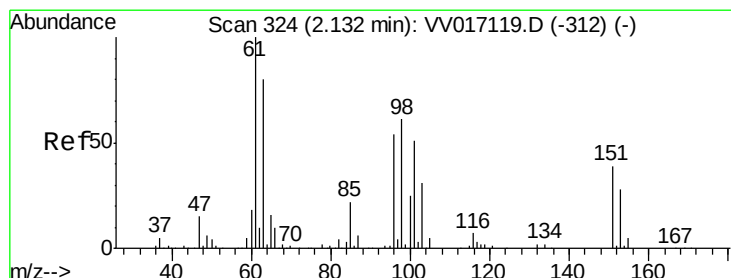
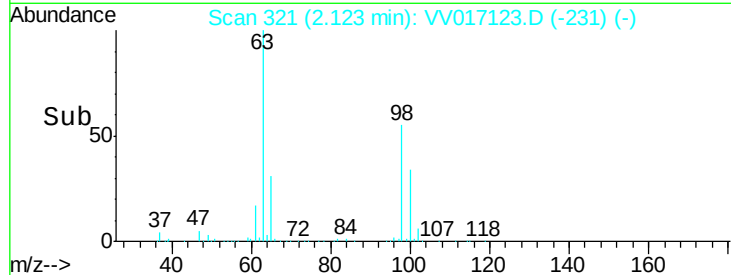
600

400

200

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.474 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

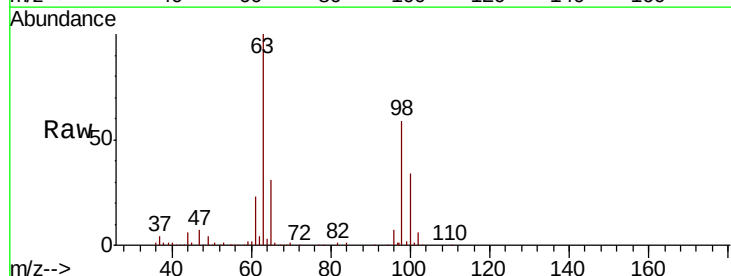
Tgt Ion: 96 Resp: 3946

Ion Ratio Lower Upper

96 100

61 340.5 125.0 232.2#

63 1508.6 109.8 203.8#



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

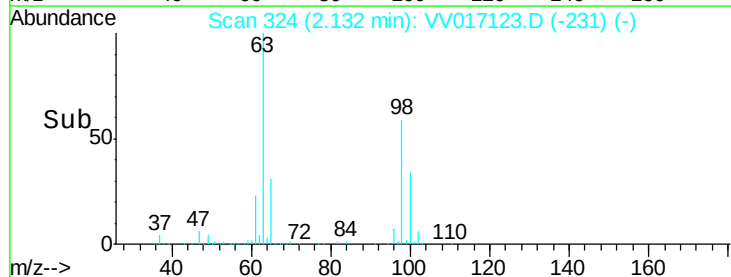
60000

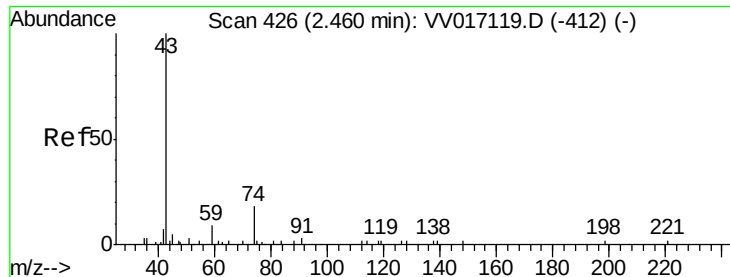
40000

20000

0

Time-->

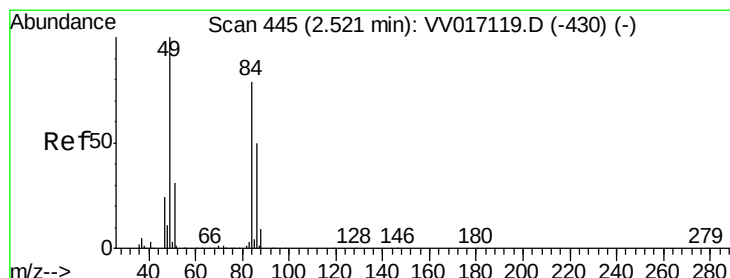
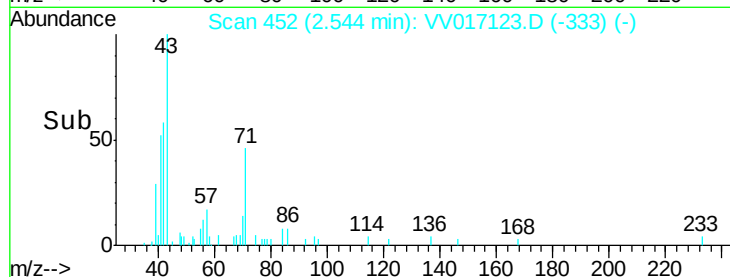
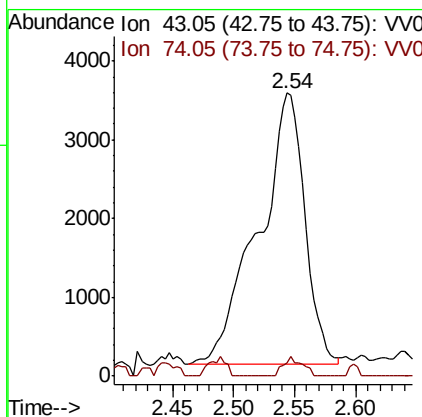
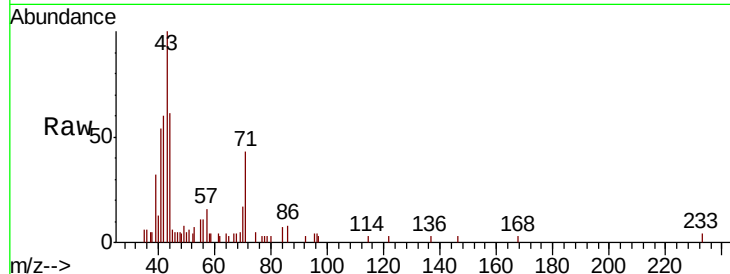




#15
Methvl Acetate
Concen: 2.804 ug/L
RT: 2.54 min Scan# 452
Delta R.T. 0.08 min
Lab File: VV017123.D
Acq: 25 Jun 2020 13:35

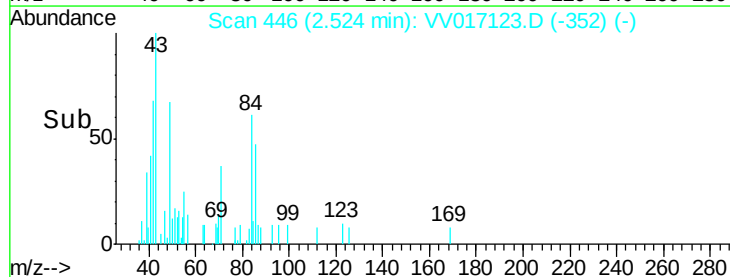
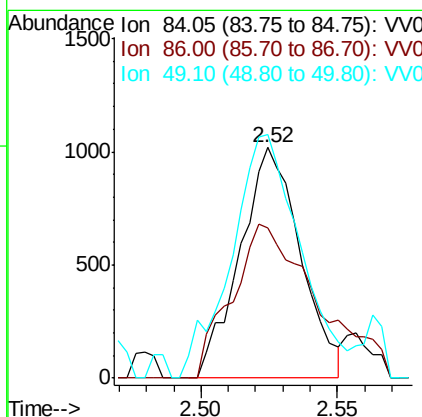
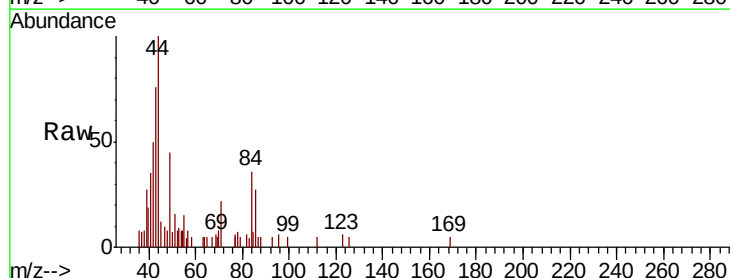
Instrument :
MSVOA_V
ClientSampleId :
BFXK7DL

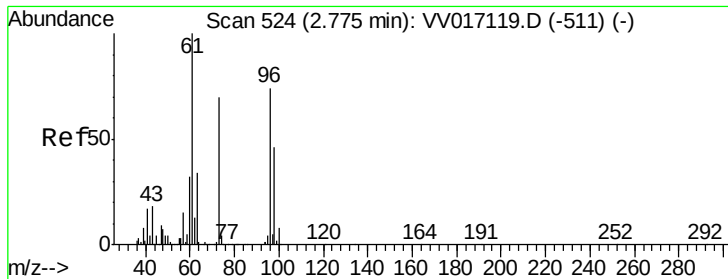
Tot Ion: 43 Resp: 9190
Ion Ratio Lower Upper
43 100
74 2.9 19.1 28.7#



#16
Methylene chloride
Concen: 0.176 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV017123.D
Acq: 25 Jun 2020 13:35

Tgt Ion: 84 Resp: 1571
Ion Ratio Lower Upper
84 100
86 64.9 45.8 85.0
49 105.6 89.6 166.4





#18

trans-1,2-Dichloroethene

Concen: 0.287 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampled :

BFXK7DL

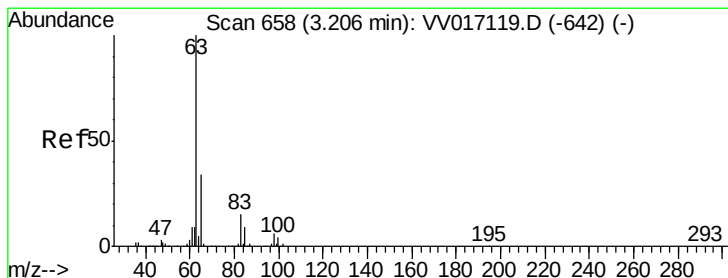
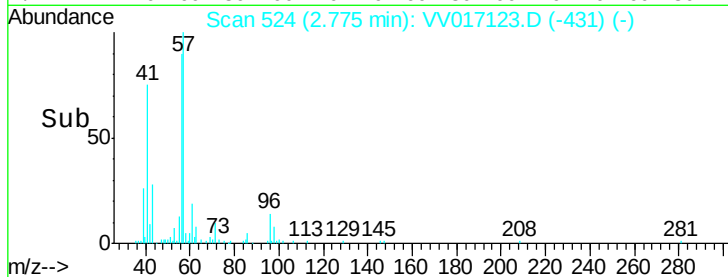
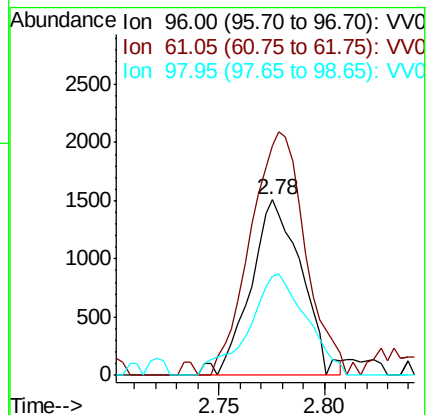
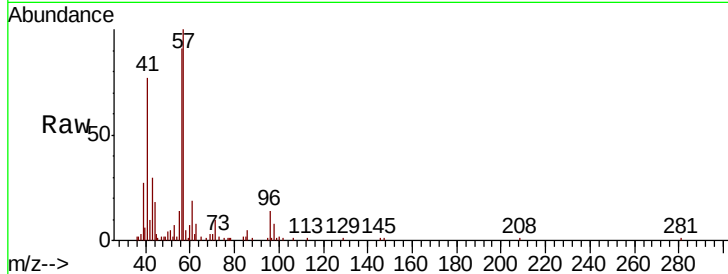
Tot Ion: 96 Resp: 2533

Ion Ratio Lower Upper

96 100

61 118.5 102.3 189.9

98 50.9 44.7 82.9



#19

1,1-Dichloroethane

Concen: 3.064 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

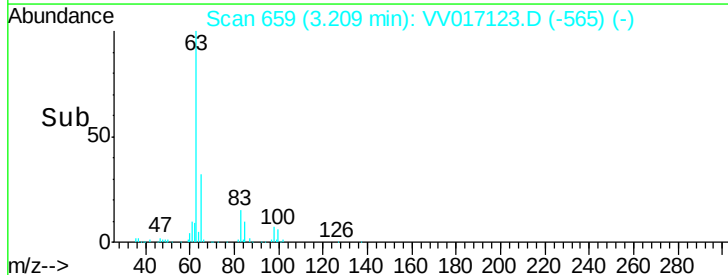
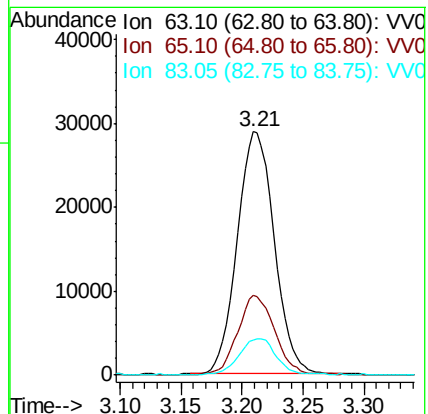
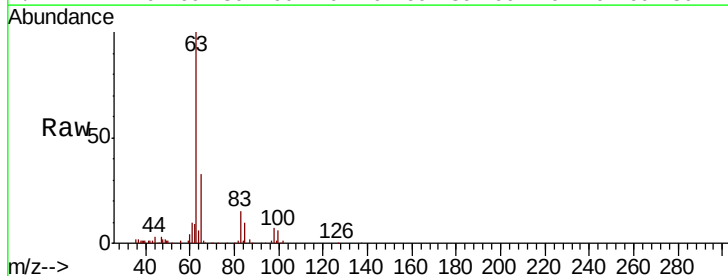
Tgt Ion: 63 Resp: 60698

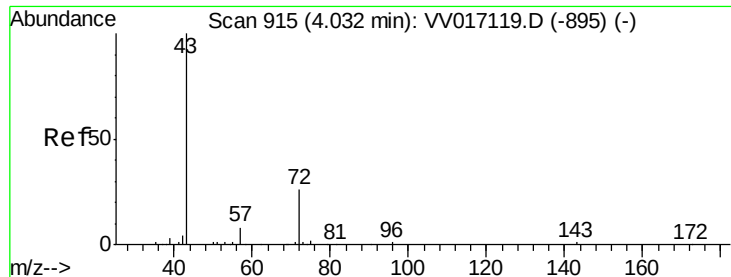
Ion Ratio Lower Upper

63 100

65 32.9 21.8 40.4

83 14.6 9.7 17.9





#21

2-Butanone

Concen: 32.931 ug/L

RT: 4.12 min Scan# 942

Delta R.T. 0.09 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

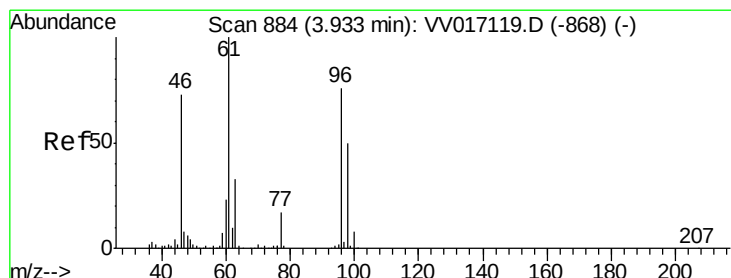
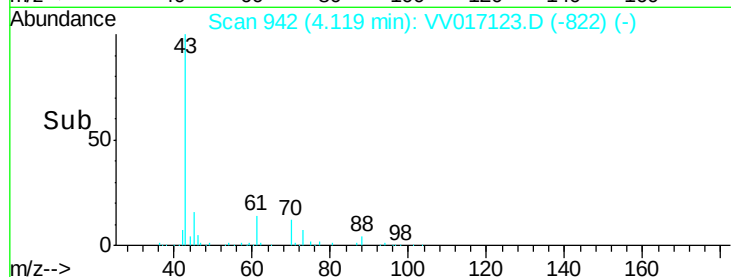
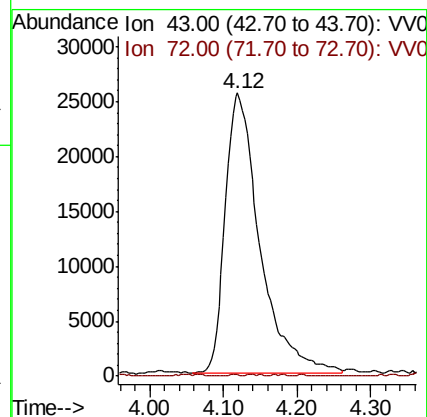
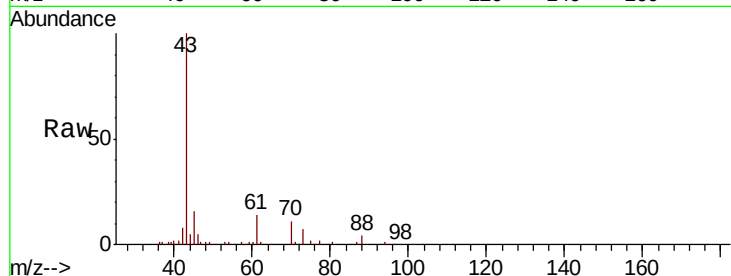
BFXK7DL

Tot Ion: 43 Resp: 83206

Ion Ratio Lower Upper

43 100

72 0.1 12.4 37.4#



#22

cis-1,2-Dichloroethene

Concen: 5.599 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

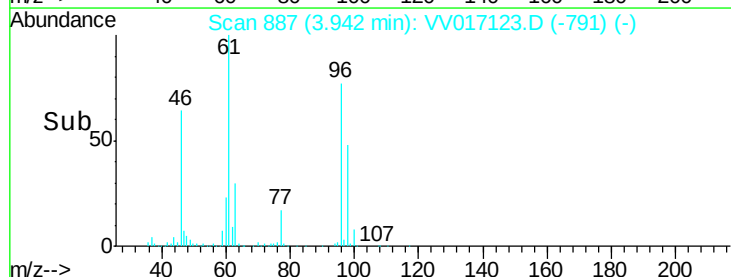
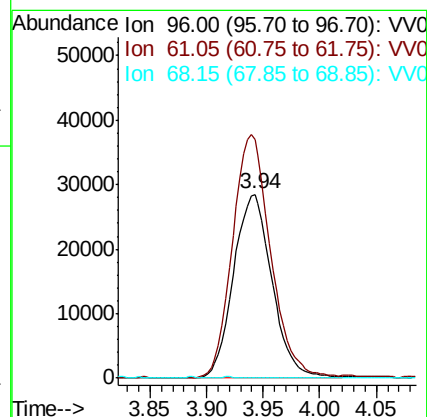
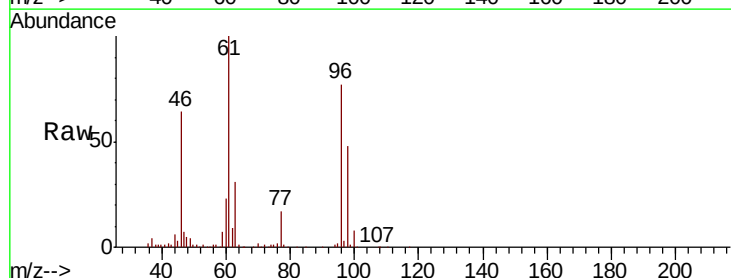
Tgt Ion: 96 Resp: 67506

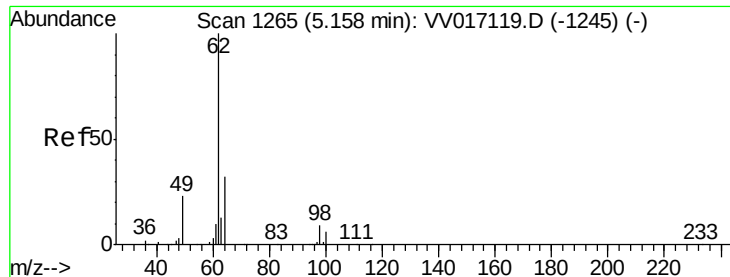
Ion Ratio Lower Upper

96 100

61 130.3 91.0 169.0

68 0.4 0.0 0.0#





#27

1,2-Dichloroethane

Concen: 0.217 ug/L

RT: 5.17 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

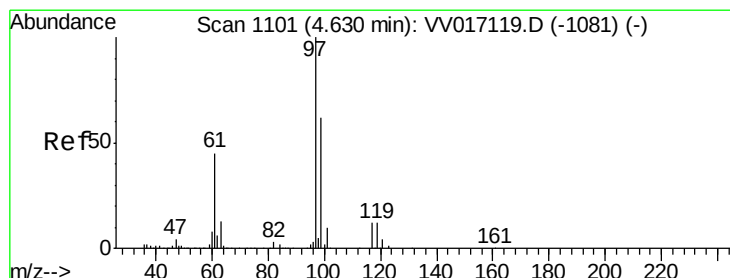
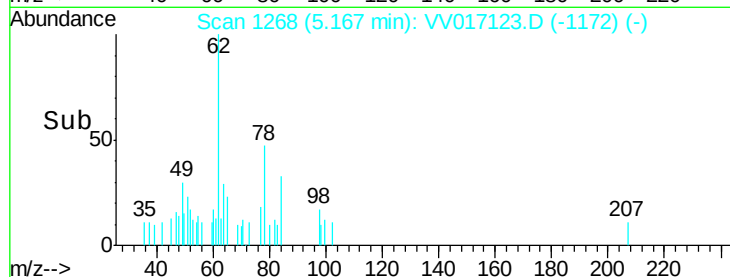
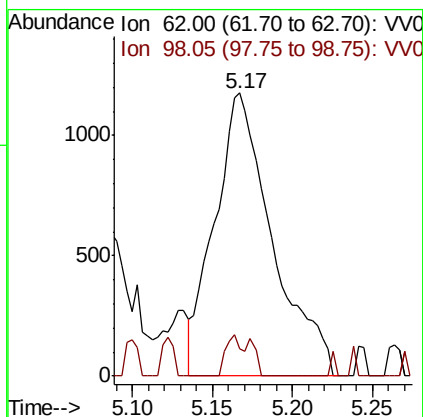
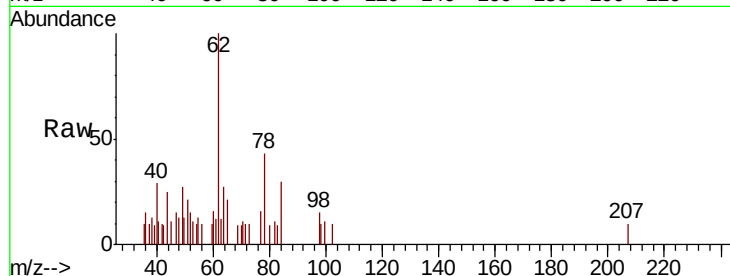
BFXK7DL

Tot Ion: 62 Resp: 2923

Ion Ratio Lower Upper

62 100

98 9.5 6.7 10.1



#29

1,1,1-Trichloroethane

Concen: 0.875 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

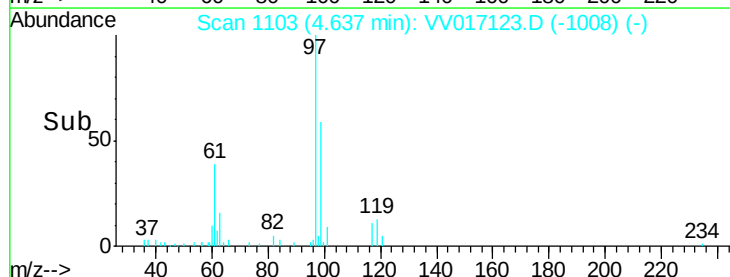
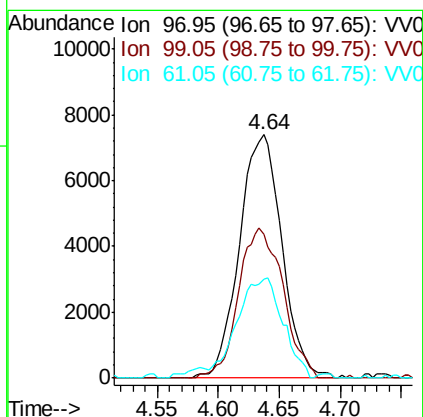
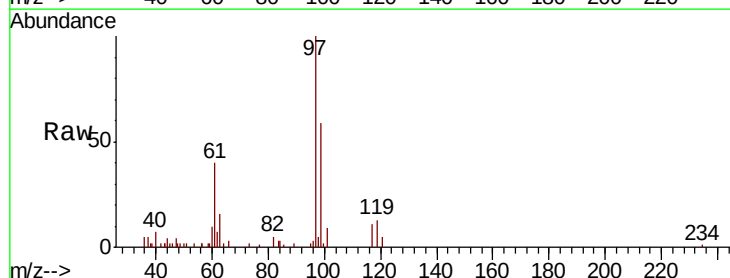
Tgt Ion: 97 Resp: 17837

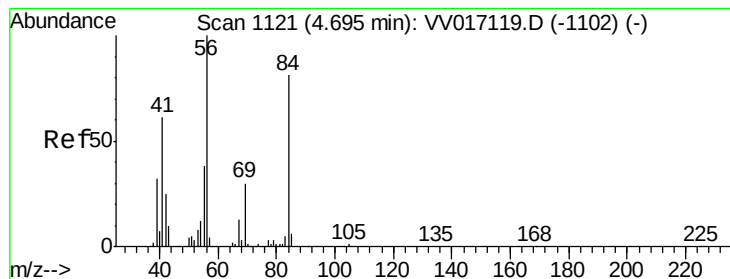
Ion Ratio Lower Upper

97 100

99 64.4 50.3 75.5

61 44.1 36.0 54.0





#30

Cyclohexane

Concen: 0.402 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

BFXK7DL

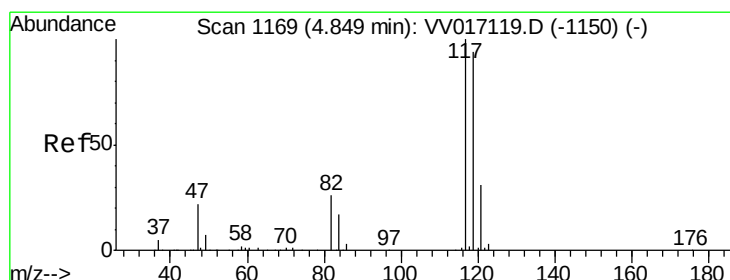
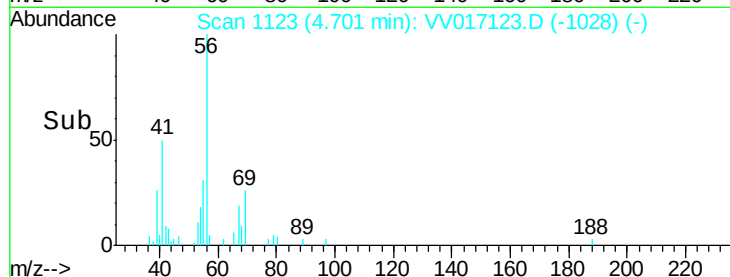
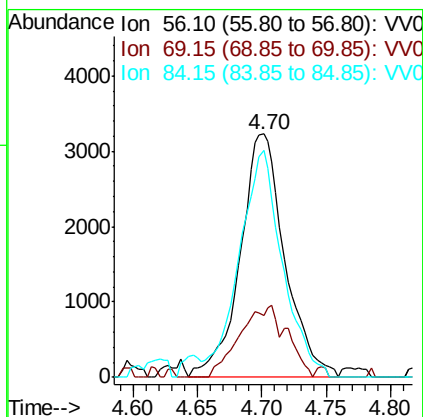
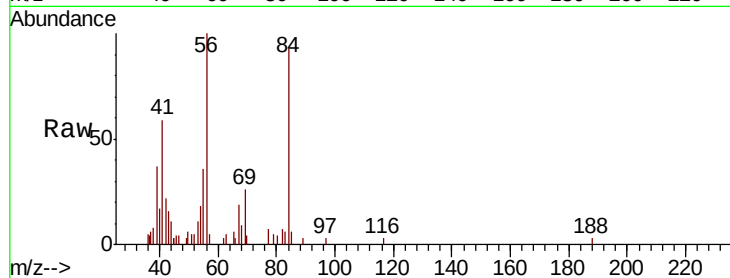
Tot Ion: 56 Resp: 7799

Ion Ratio Lower Upper

56 100

69 31.3 24.4 36.6

84 90.1 69.9 104.9



#31

Carbon tetrachloride

Concen: 0.137 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.22 min

Lab File: VV017123.D

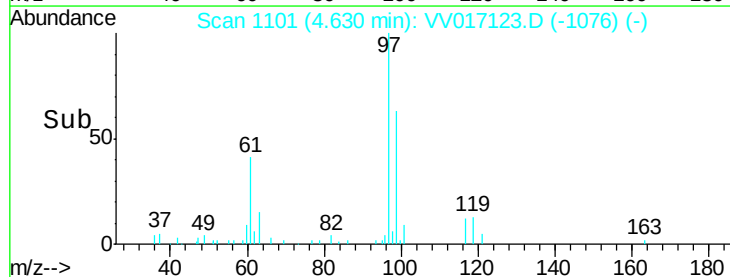
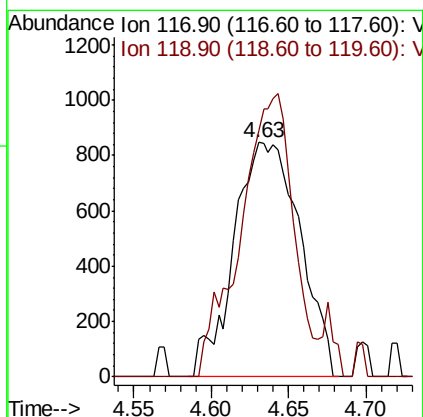
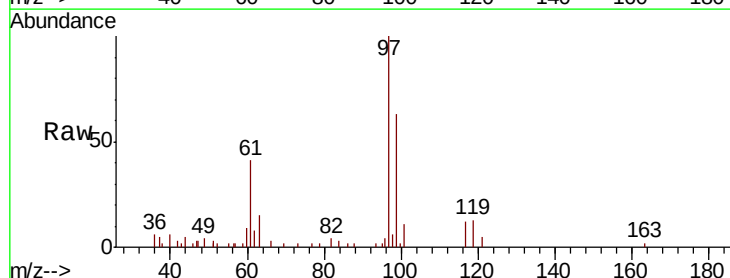
Acq: 25 Jun 2020 13:35

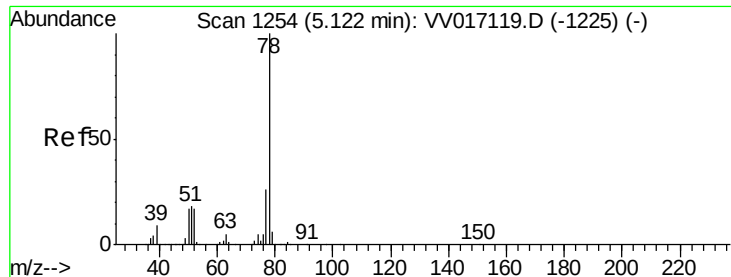
Tgt Ion: 117 Resp: 2514

Ion Ratio Lower Upper

117 100

119 97.1 77.8 116.8





#33

Benzene

Concen: 0.330 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

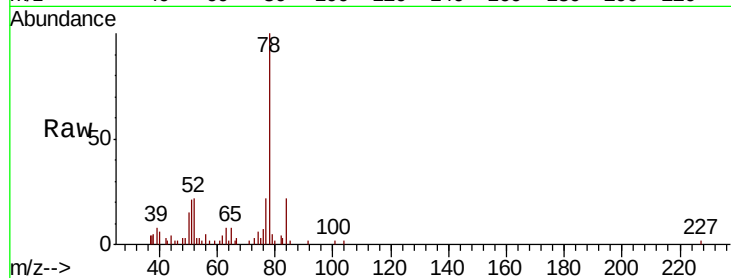
Instrument :

MSVOA_V

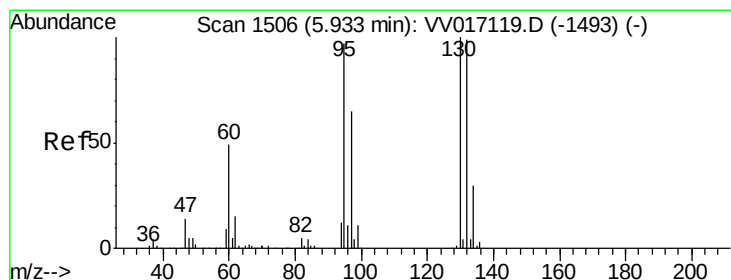
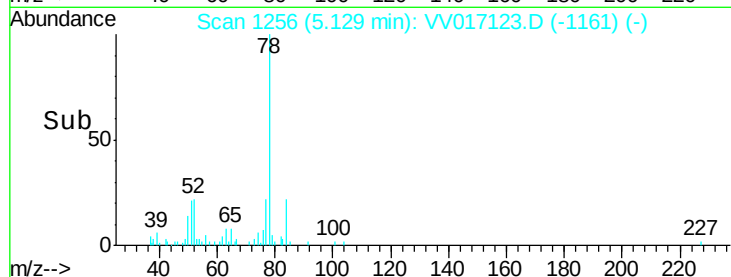
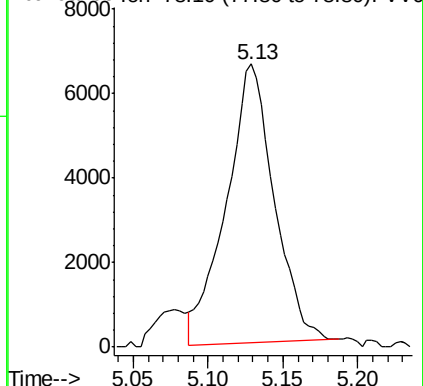
ClientSampleId :

BFXK7DL

Tgt Ion: 78 Resp: 14719



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.131 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Tgt Ion: 95 Resp: 1705

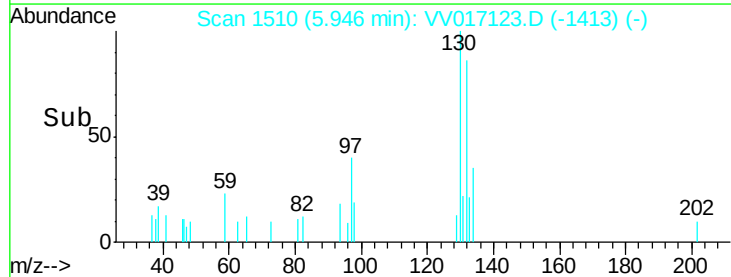
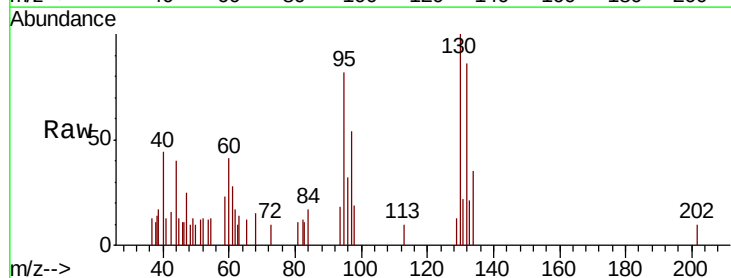
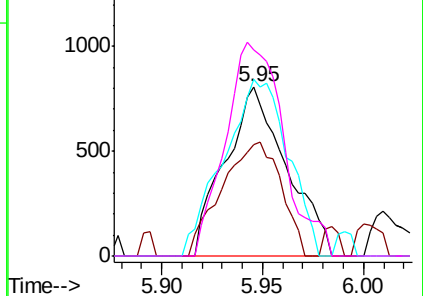
Ion	Ratio	Lower	Upper
95	100		
97	65.6	45.3	84.1
132	104.5	68.8	127.8
130	122.2	70.2	130.4

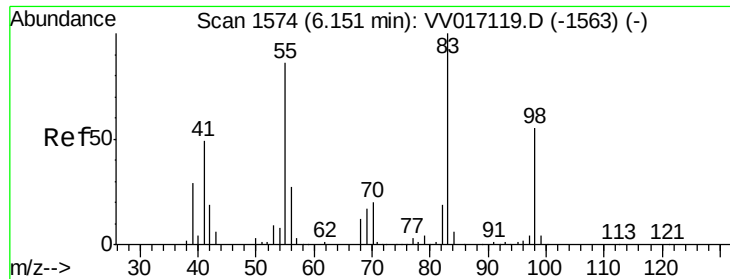
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

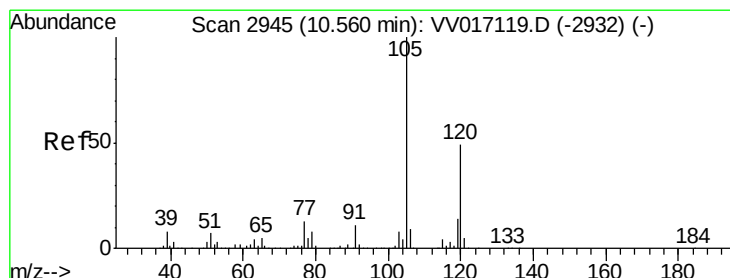
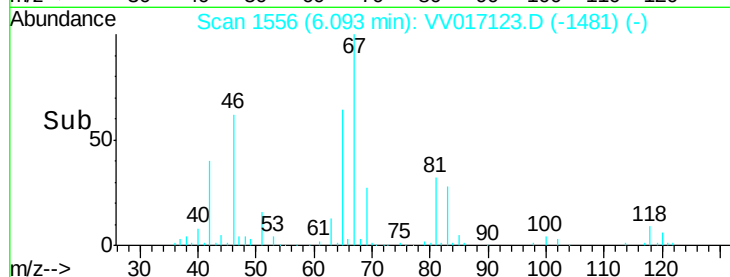
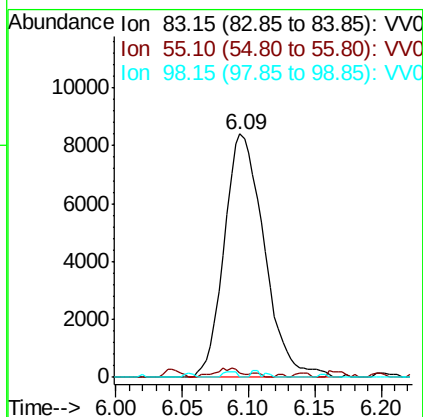
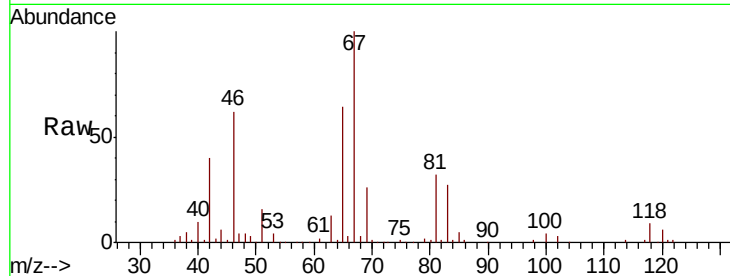




#35
Methylvlcyclohexane
Concen: 0.870 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV017123.D
Acq: 25 Jun 2020 13:35

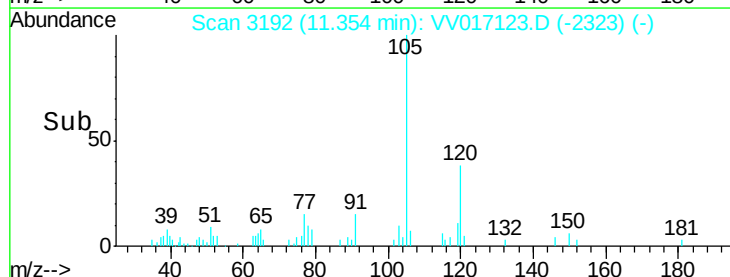
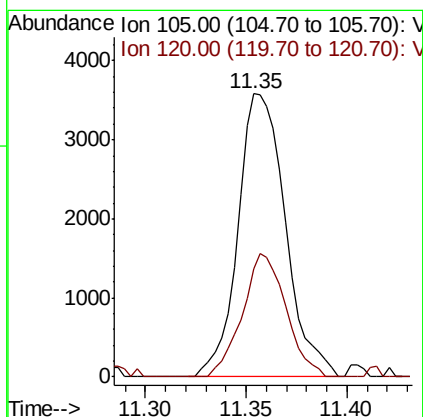
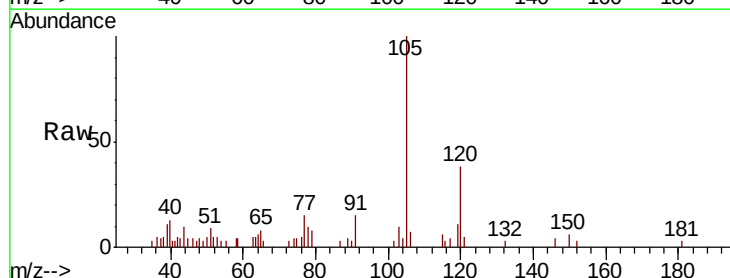
Instrument :
MSVOA_V
ClientSampled :
BFXK7DL

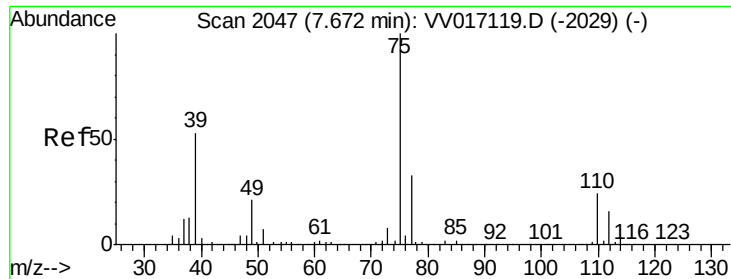
Tot Ion: 83 Resp: 17628
Ion Ratio Lower Upper
83 100
55 2.2 63.6 95.4#
98 0.8 38.8 58.2#



#43
1,3,5-Trimethylbenzene
Concen: 0.127 ug/L
RT: 11.35 min Scan# 3192
Delta R.T. 0.79 min
Lab File: VV017123.D
Acq: 25 Jun 2020 13:35

Tgt Ion:105 Resp: 5903
Ion Ratio Lower Upper
105 100
120 40.0 38.6 57.8





#46

trans-1,3-Dichloropropene

Concen: 0.111 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

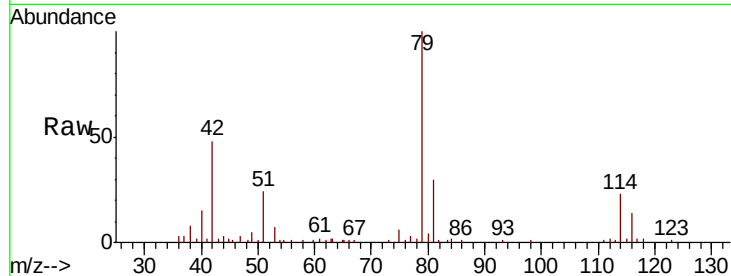
BFXK7DL

Tot Ion: 75 Resp: 1574

Ion Ratio Lower Upper

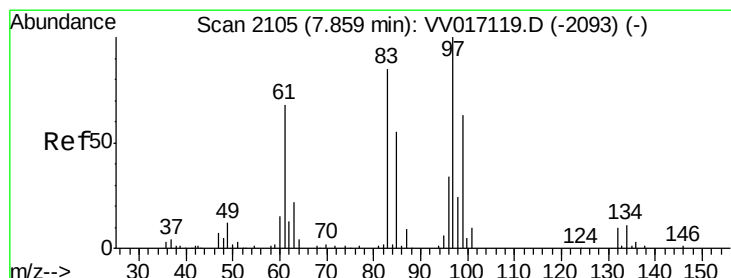
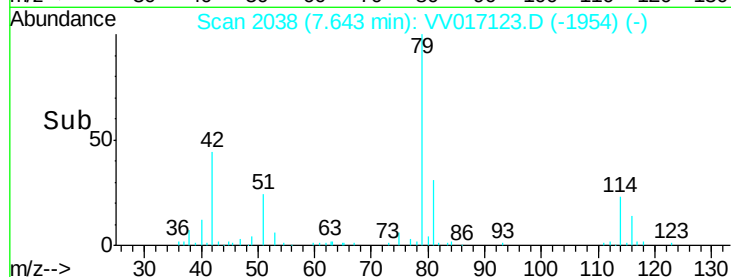
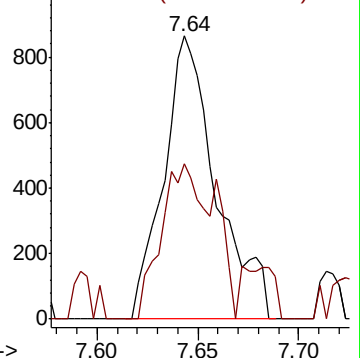
75 100

77 54.9 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#47

1,1,2-Trichloroethane

Concen: 0.293 ug/L

RT: 7.87 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Tgt Ion: 97 Resp: 2294

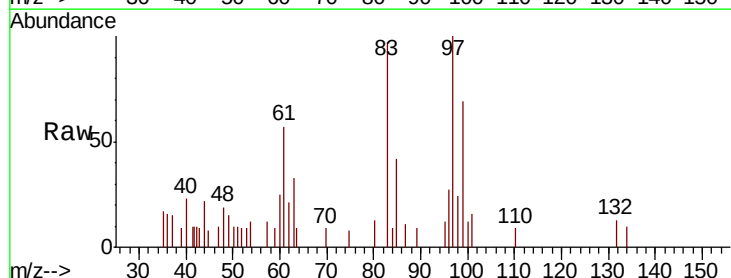
Ion Ratio Lower Upper

97 100

99 68.9 43.6 81.0

83 97.2 57.4 106.6

85 41.6 38.8 72.0

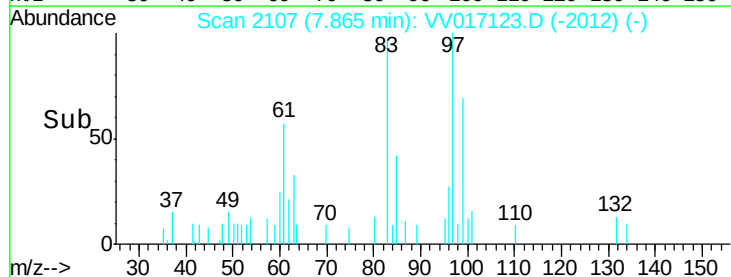
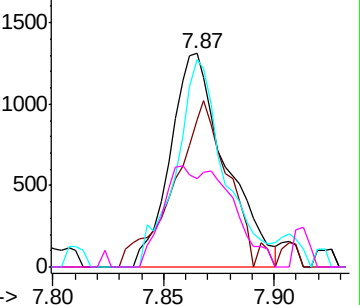


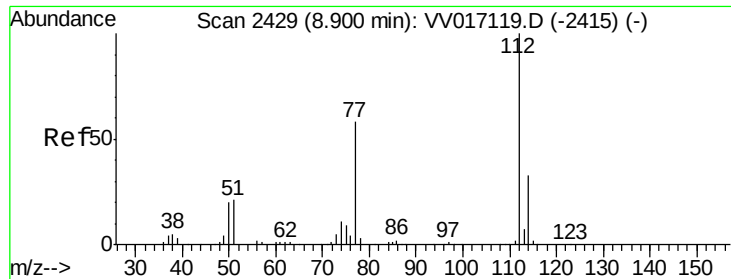
Abundance Ion 96.95 (96.65 to 97.65): VV0

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





#53

Chlorobenzene

Concen: 1.529 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

BFXK7DL

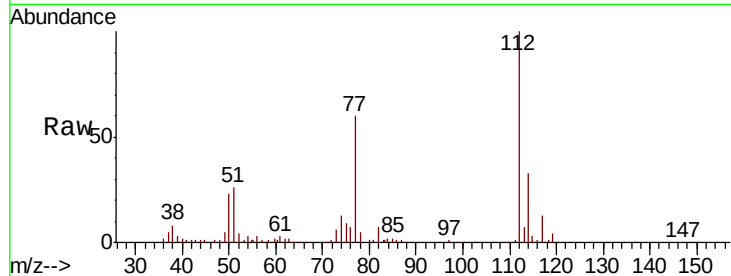
Tot Ion:112 Resp: 49361

Ion Ratio Lower Upper

112 100

114 33.3 22.0 41.0

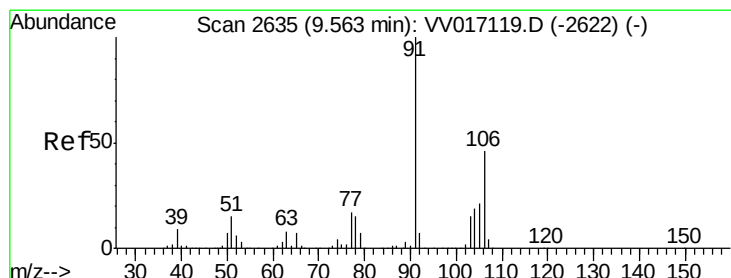
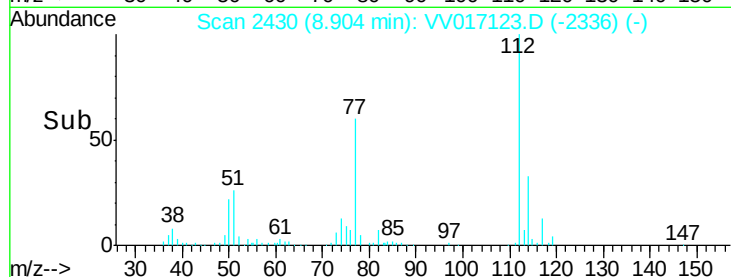
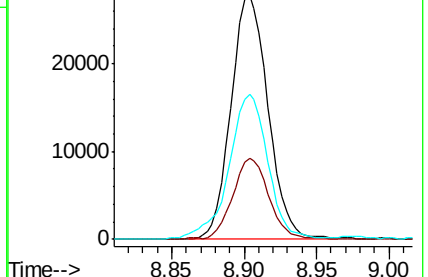
77 59.6 46.0 69.0



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



#56

o-xylene

Concen: 0.224 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV017123.D

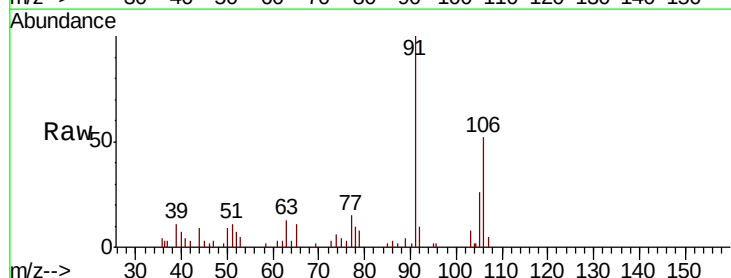
Acq: 25 Jun 2020 13:35

Tgt Ion:106 Resp: 4530

Ion Ratio Lower Upper

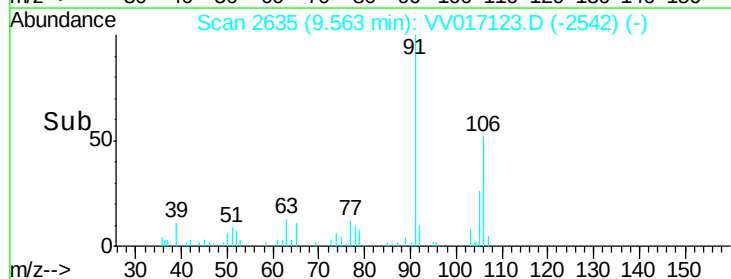
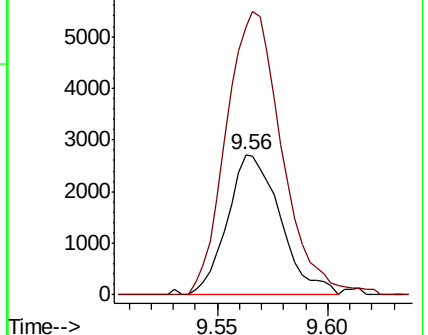
106 100

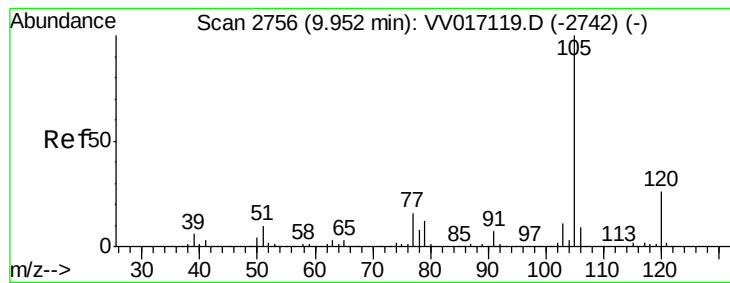
91 190.5 153.6 285.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): V





#58

Isopropylbenzene

Concen: 0.052 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

BFXK7DL

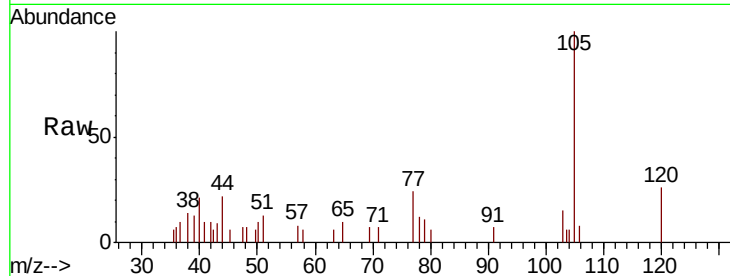
Tot Ion:105 Resp: 2886

Ion Ratio Lower Upper

105 100

120 24.3 21.2 31.8

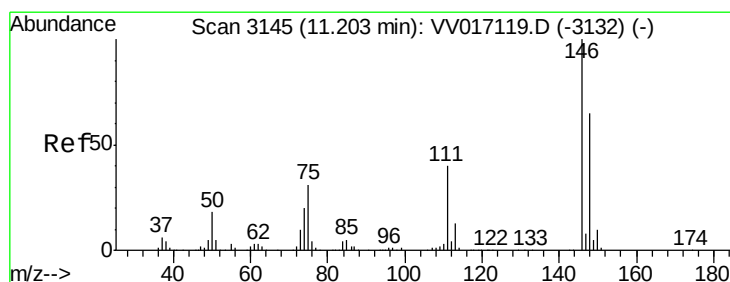
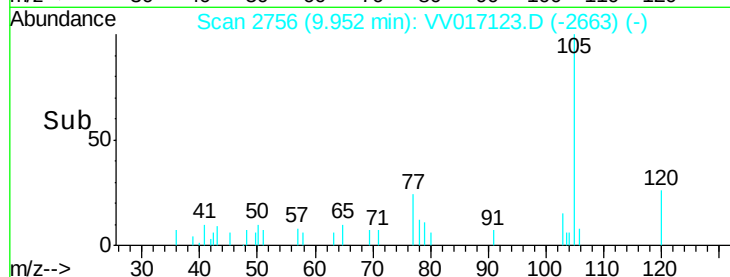
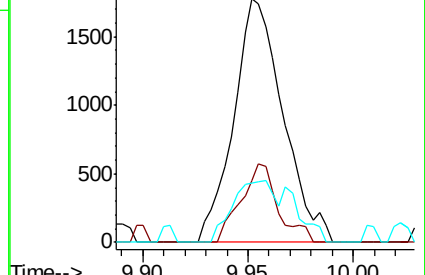
77 21.9 13.0 19.4#



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: 0.142 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

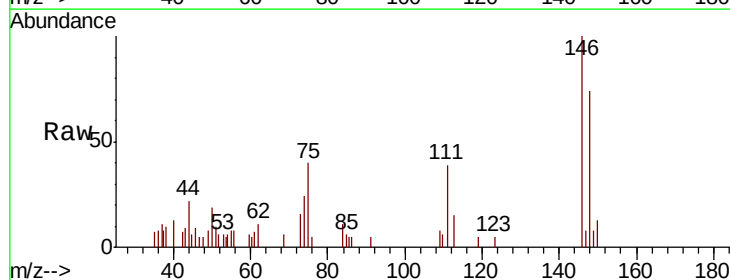
Tgt Ion:146 Resp: 3433

Ion Ratio Lower Upper

146 100

111 38.8 29.2 54.2

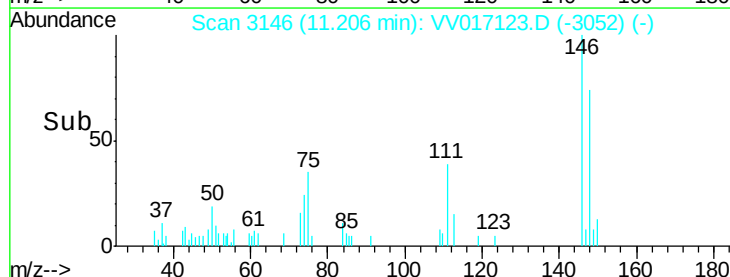
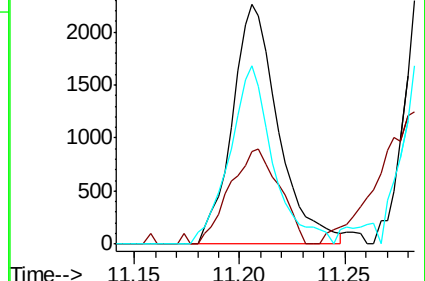
148 74.3 44.9 83.5

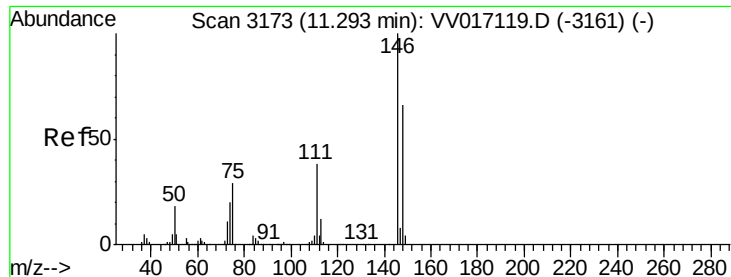


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 0.273 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampled :

BFXK7DL

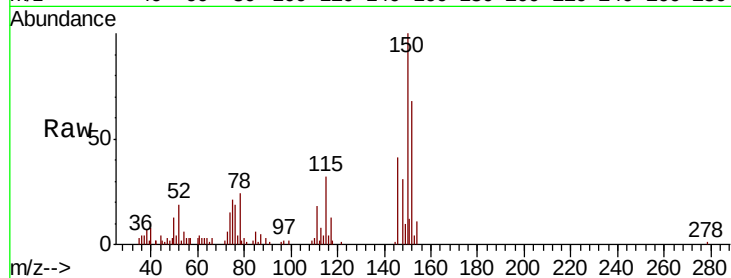
Tot Ion:146 Resp: 6719

Ion Ratio Lower Upper

146 100

111 42.9 27.4 50.8

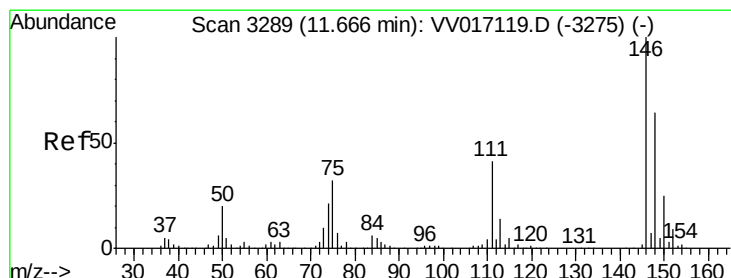
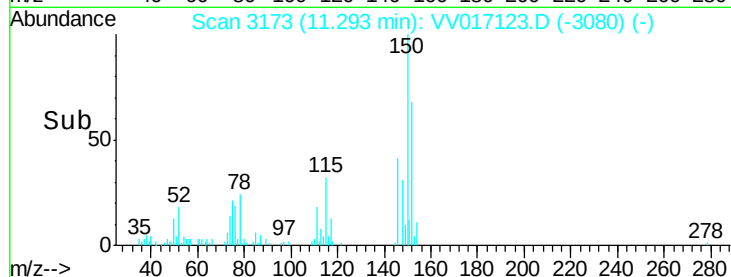
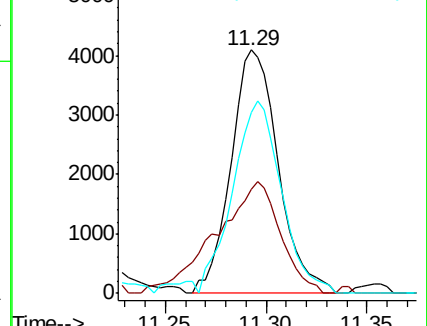
148 74.2 44.3 82.3



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: 0.175 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. -0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

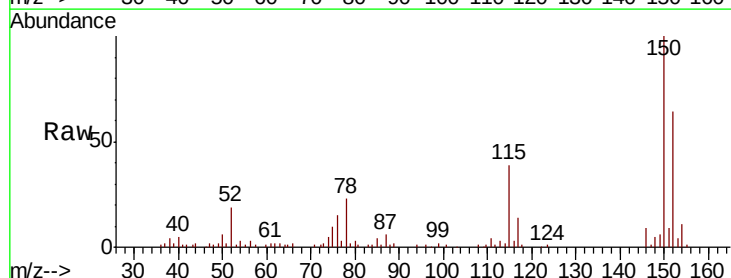
Tgt Ion:146 Resp: 3838

Ion Ratio Lower Upper

146 100

111 50.9 34.4 51.6

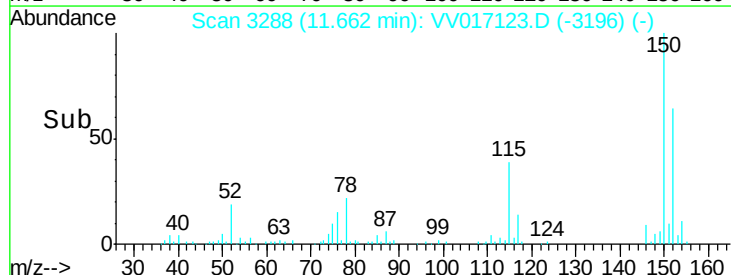
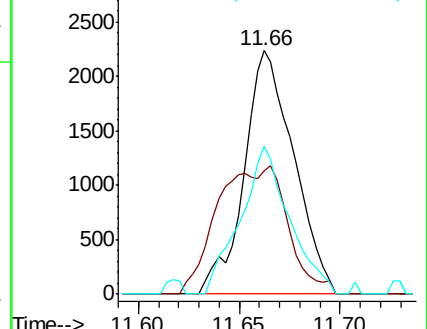
148 60.6 49.9 74.9

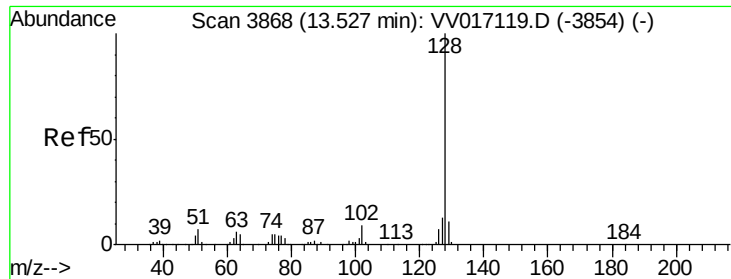


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#70

Naphthalene

Concen: 0.152 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV017123.D

Acq: 25 Jun 2020 13:35

Instrument :

MSVOA_V

ClientSampleId :

BFXK7DL

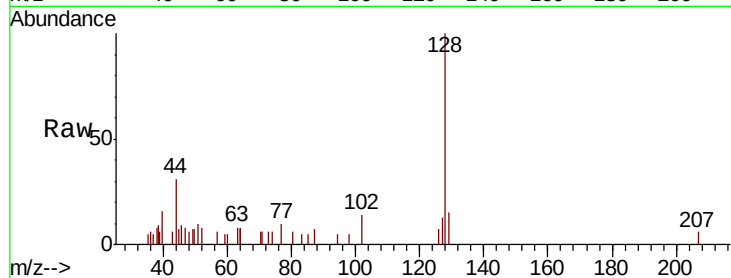
Tot Ion:128 Resp: 3422

Ion Ratio Lower Upper

128 100

129 12.3 8.8 13.2

127 9.1 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

