

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042820\
 Data File : VV015755.D
 Acq On : 28 Apr 2020 18:49
 Operator : SY/MD
 Sample : L2421-10
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFSB2

Quant Time: Apr 29 02:41:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 29 00:40:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	127125	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	122290	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	61017	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	23318	3.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.20%
7) Chloroethane-d5	1.58	69	26358	4.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.40%
11) 1,1-Dichloroethene-d2	2.12	63	40971	2.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.40%#
20) 2-Butanone-d5	3.92	46	116802	54.76	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.52%
24) Chloroform-d	4.38	84	74191	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.06	65	42727	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.08	84	133718	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.10	67	43931	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.34	98	121862	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	7.65	79	14401	3.99	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.80%
46) 2-Hexanone-d5	8.11	63	81816	46.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.04%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	32753	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.40%
64) 1,2-Dichlorobenzene-d4	11.65	152	50390	4.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	1767	0.176	ug/L #	67
12) 1,1-Dichloroethene	2.13	96	1404	0.190	ug/L #	1
13) Acetone	2.20	43	67356	45.473	ug/L	100
17) Methyl tert-butyl Ether	2.78	73	5040239	242.676	ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	3116	0.376	ug/L	96
19) 1,1-Dichloroethane	3.21	63	8500	0.523	ug/L	99
21) 2-Butanone	4.01	43	71421	31.260	ug/L	94
22) cis-1,2-Dichloroethene	3.94	96	140613	15.351	ug/L	97
29) 1,1,1-Trichloroethane	4.64	97	5520	0.356	ug/L	99
30) Cyclohexane	4.70	56	1281	0.086	ug/L #	94
33) Benzene	5.13	78	58398	1.671	ug/L	100
34) Trichloroethene	5.94	95	1108213	114.854	ug/L	98
35) Methylcyclohexane	6.15	83	1460	0.099	ug/L #	50
40) 4-Methyl-2-pentanone	7.26	43	11021	1.912	ug/L #	89
42) Toluene	7.41	91	533710	14.297	ug/L	99
47) Tetrachloroethene	8.00	164	906	0.130	ug/L	94
52) Ethylbenzene	9.04	91	130660	3.024	ug/L	99

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QLast Update : Wed Apr 29 00:40:59 2020
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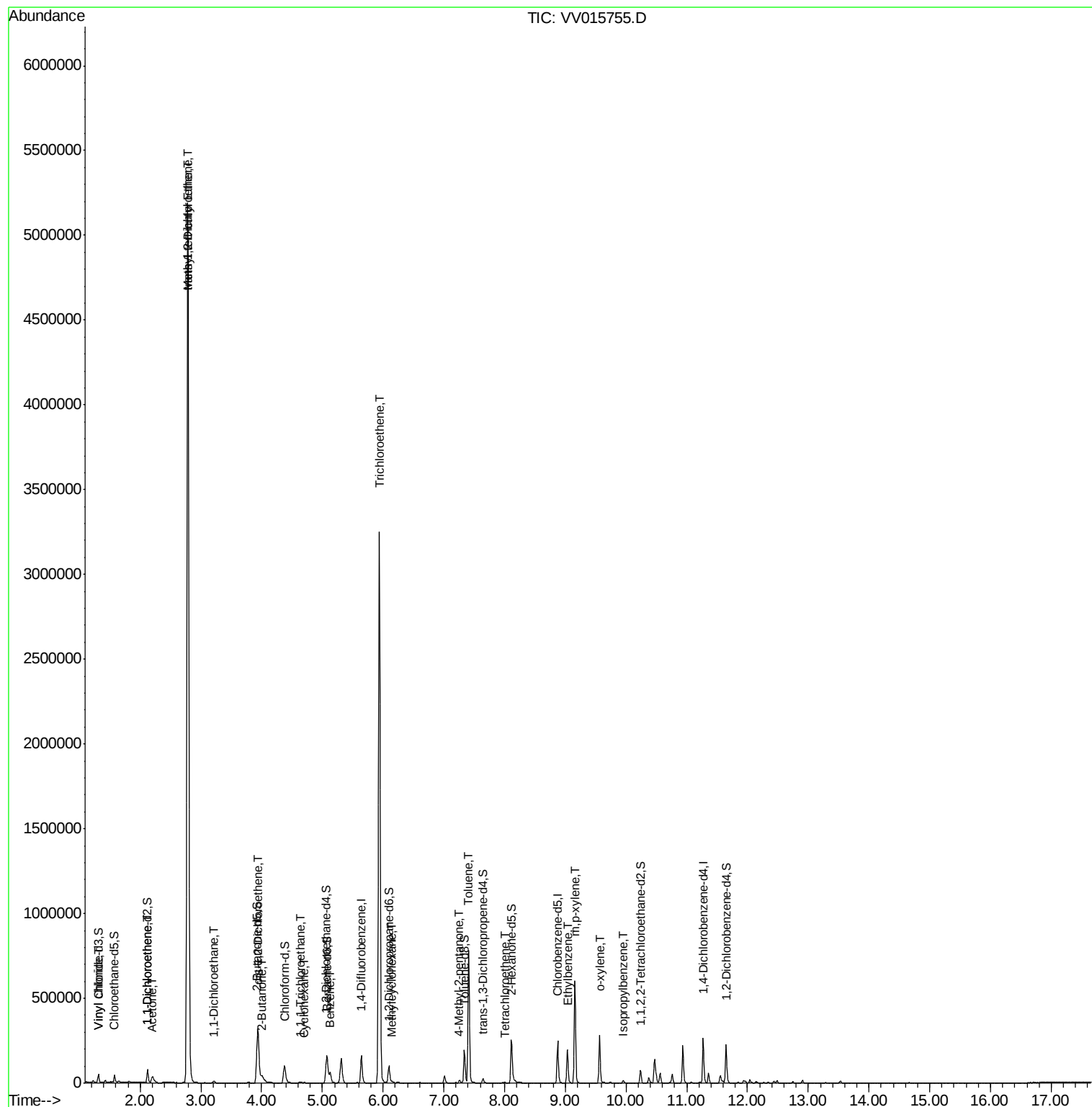
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-xylene	9.16	106	156064	9.862	ug/L	98
54) o-xylene	9.57	106	69932	4.567	ug/L	96
56) Isopropylbenzene	9.95	105	8563	0.199	ug/L	99

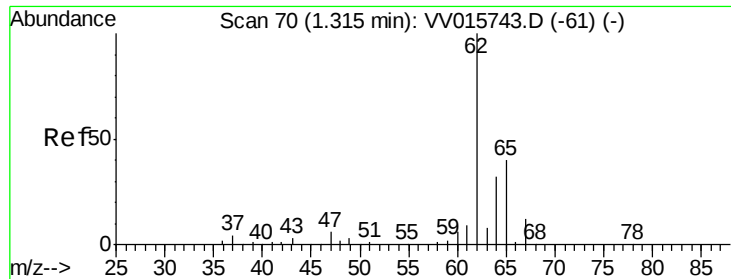
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.176 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

ClientSampleId :

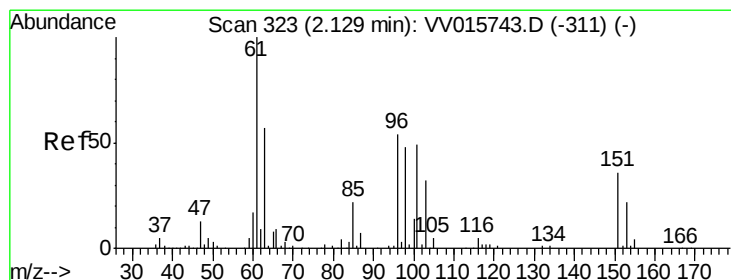
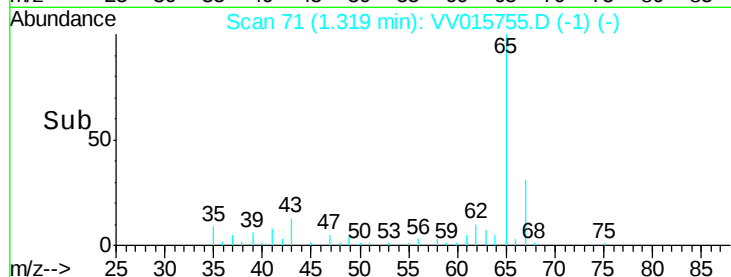
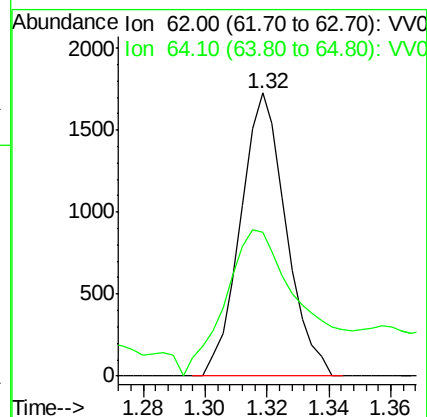
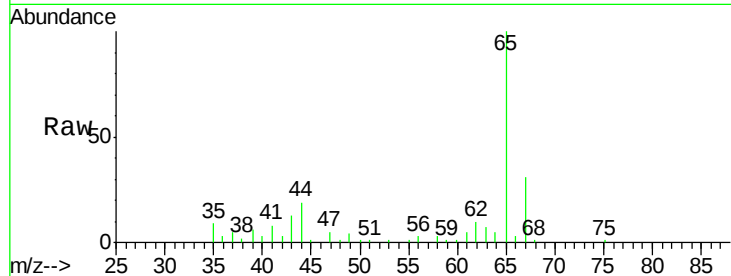
BFSB2

Tot Ion: 62 Resp: 1767

Ion Ratio Lower Upper

62 100

64 50.6 22.7 42.1#



#12

1,1-Dichloroethene

Concen: 0.190 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

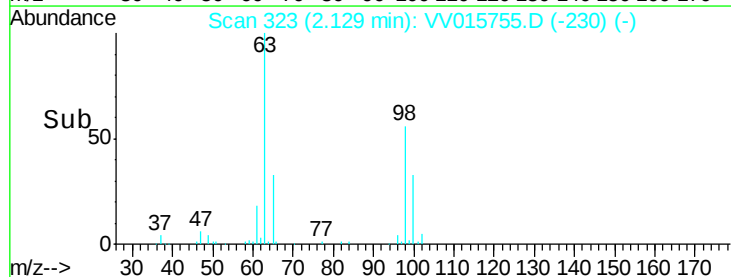
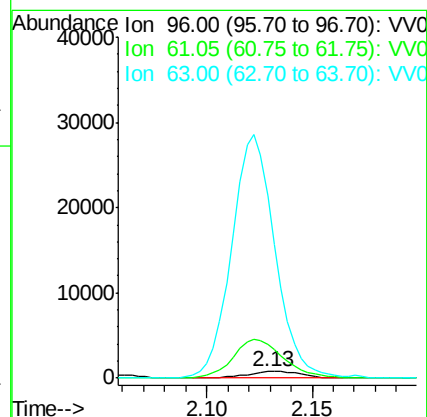
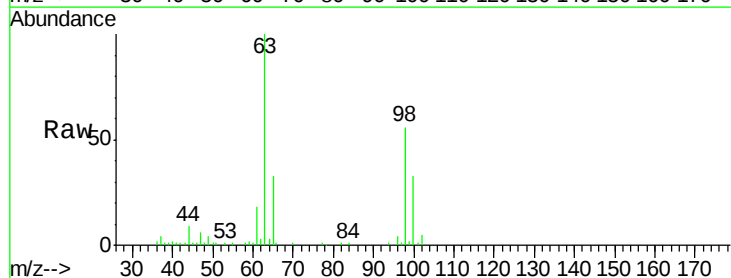
Tgt Ion: 96 Resp: 1404

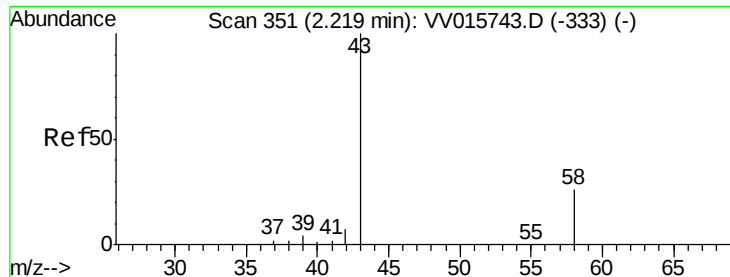
Ion Ratio Lower Upper

96 100

61 501.9 130.1 241.7#

63 2736.6 91.4 169.8#





#13

Acetone

Concen: 45.473 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.02 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

ClientSampleId :

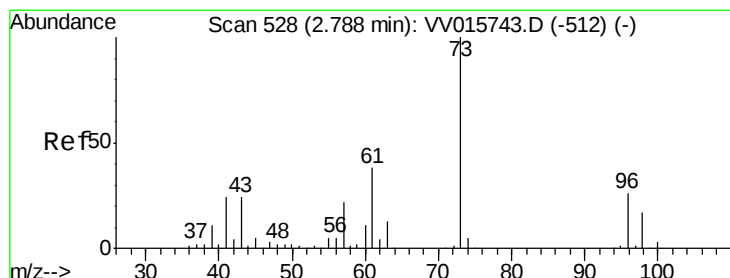
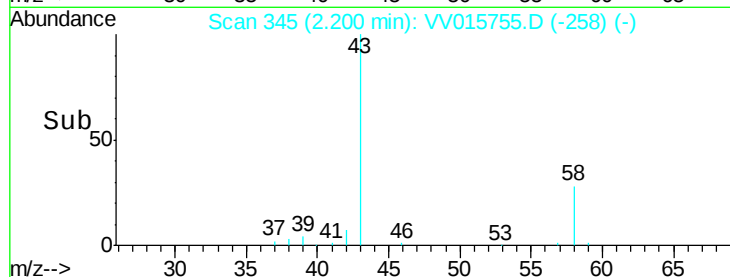
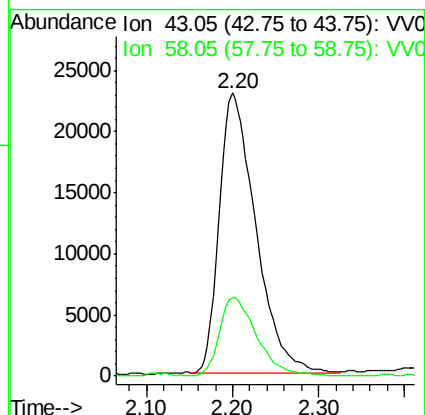
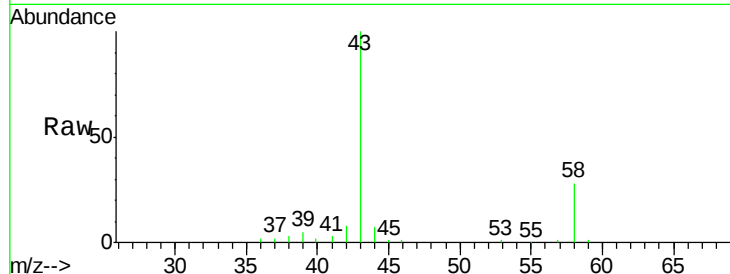
BFSB2

Tot Ion: 43 Resp: 67356

Ion Ratio Lower Upper

43 100

58 29.1 0.0 57.6



#17

Methyl tert-butyl Ether

Concen: 242.676 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

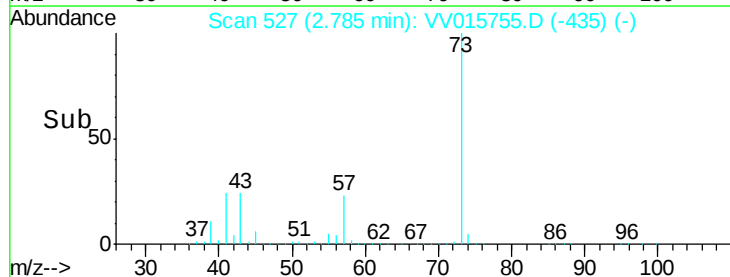
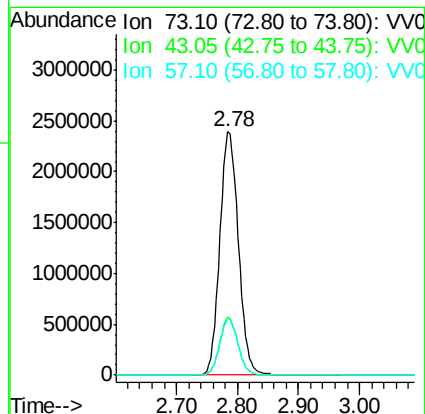
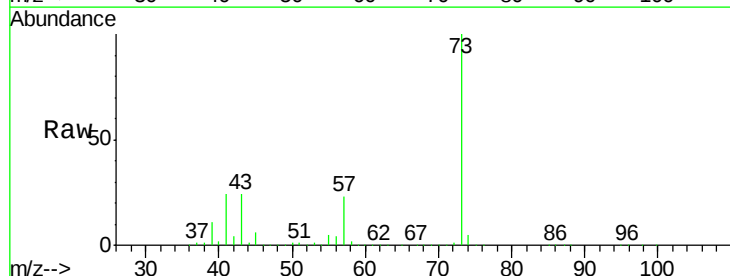
Tgt Ion: 73 Resp: 5040239

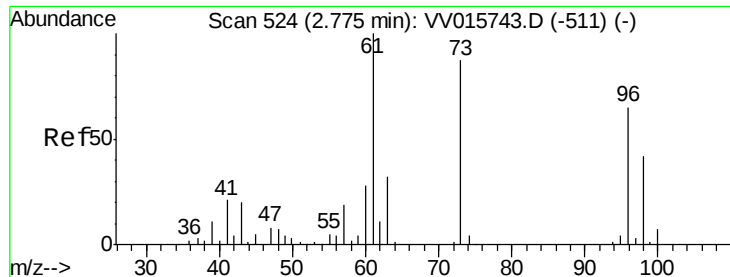
Ion Ratio Lower Upper

73 100

43 23.5 20.1 30.1

57 22.6 17.8 26.8





#18

trans-1,2-Dichloroethene

Concen: 0.376 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.01 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

ClientSampleId :

BFSB2

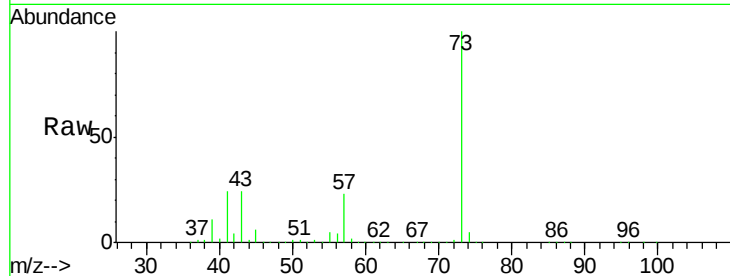
Tot Ion: 96 Resp: 3116

Ion Ratio Lower Upper

96 100

61 153.5 105.5 195.9

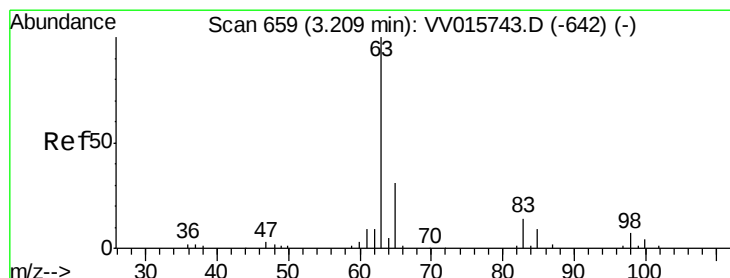
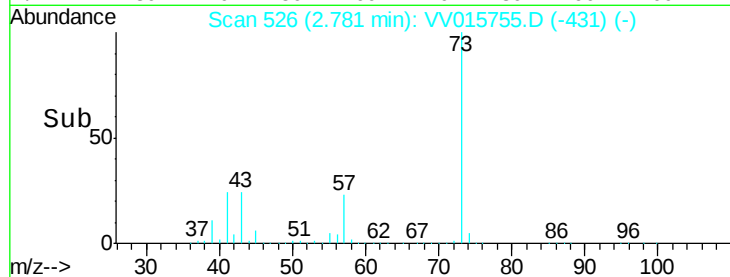
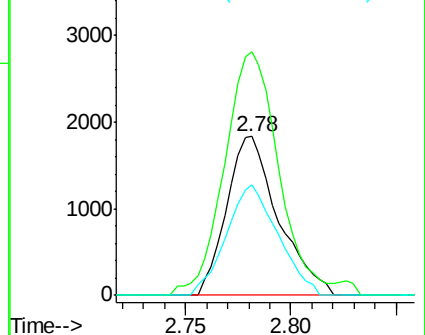
98 69.5 44.2 82.0



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: 0.523 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

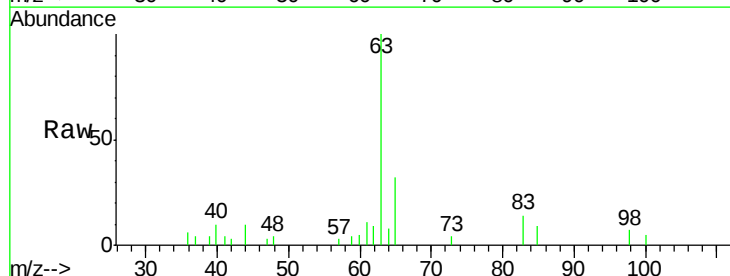
Tgt Ion: 63 Resp: 8500

Ion Ratio Lower Upper

63 100

65 31.6 22.3 41.3

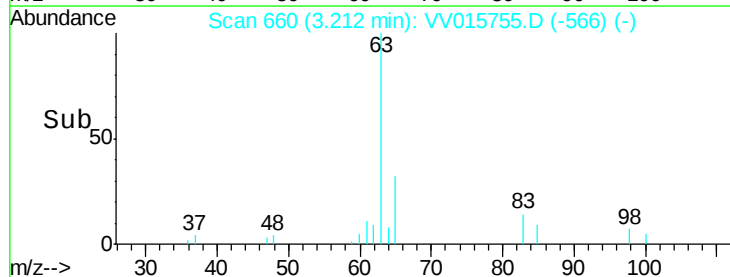
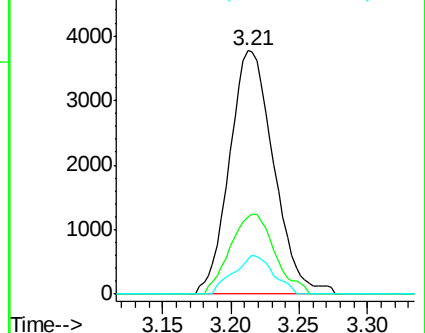
83 14.3 9.3 17.3

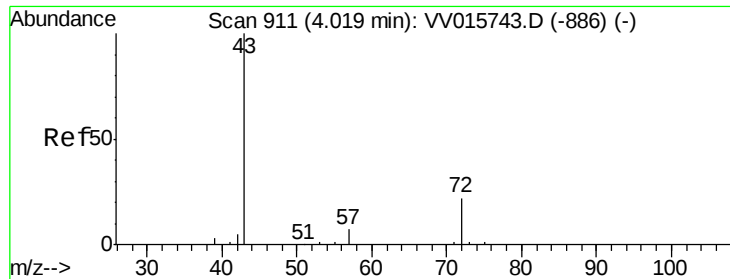


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0





#21

2-Butanone

Concen: 31.260 ug/L

RT: 4.01 min Scan# 908

Delta R.T. -0.01 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

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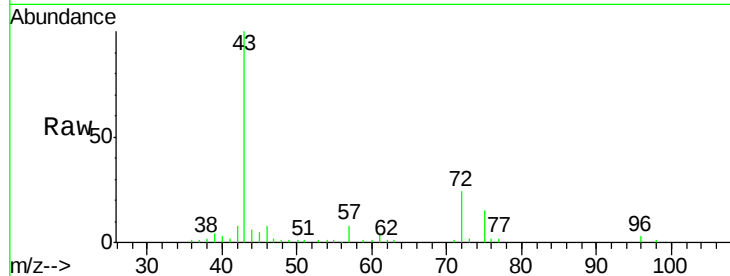
BFSB2

Tot Ion: 43 Resp: 71421

Ion Ratio Lower Upper

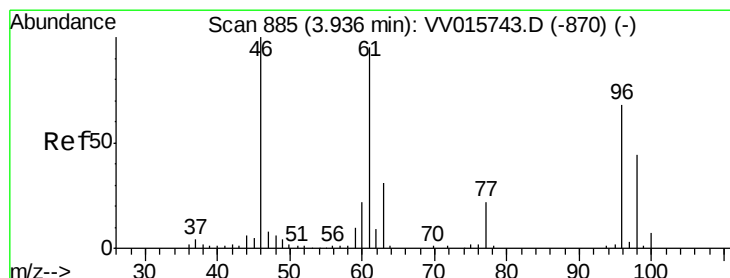
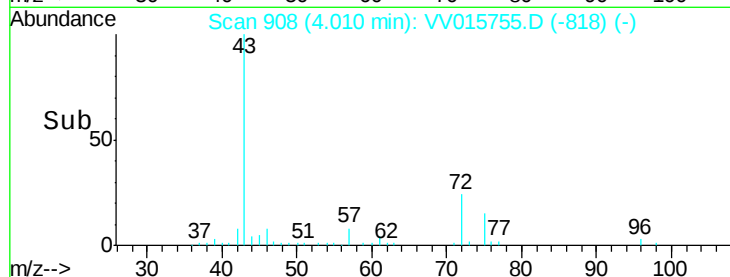
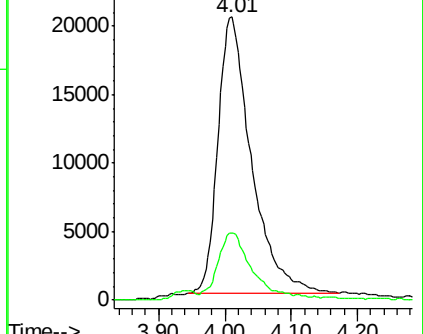
43 100

72 21.7 12.3 36.9



Abundance Ion 43.00 (42.70 to 43.70): VV015743.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV015743.D (-886) (-)



#22

cis-1,2-Dichloroethene

Concen: 15.351 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

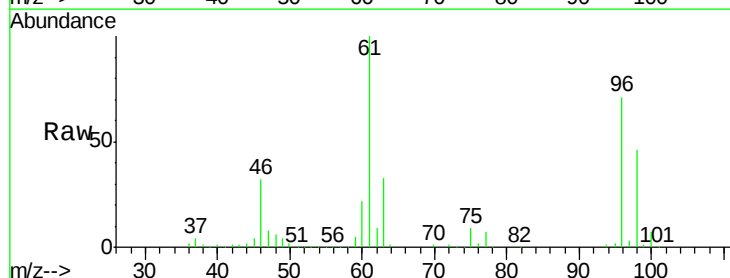
Tgt Ion: 96 Resp: 140613

Ion Ratio Lower Upper

96 100

61 141.4 96.4 179.0

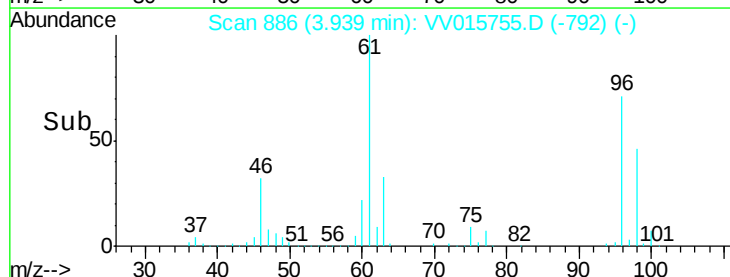
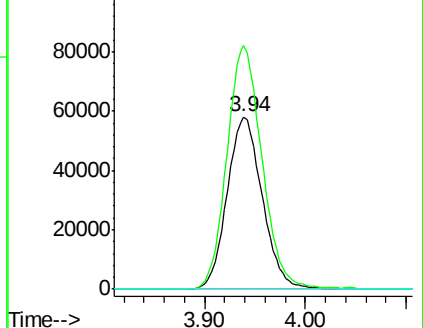
68 0.0 0.0 0.0

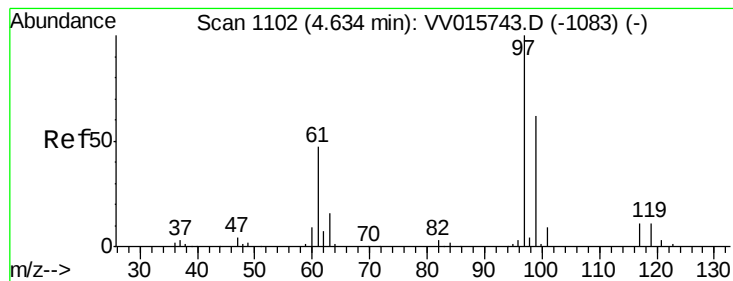


Abundance Ion 96.00 (95.70 to 96.70): VV015743.D (-870) (-)

Ion 61.05 (60.75 to 61.75): VV015743.D (-870) (-)

Ion 68.15 (67.85 to 68.85): VV015743.D (-870) (-)





#29

1,1,1-Trichloroethane

Concen: 0.356 ug/L

RT: 4.64 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VV015755.D

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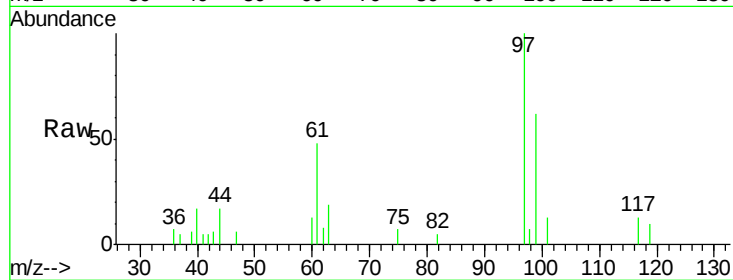
Tot Ion: 97 Resp: 5520

Ion Ratio Lower Upper

97 100

99 65.6 51.6 77.4

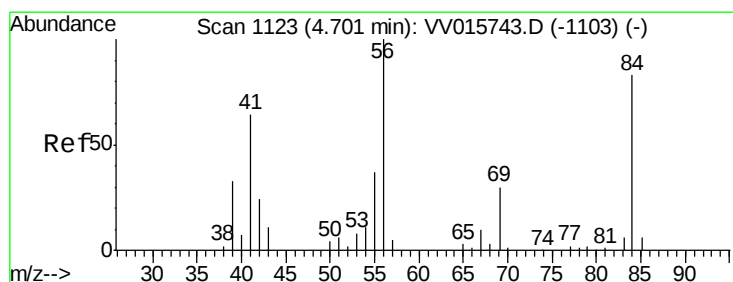
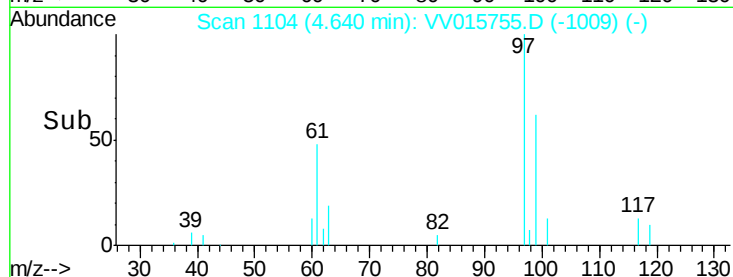
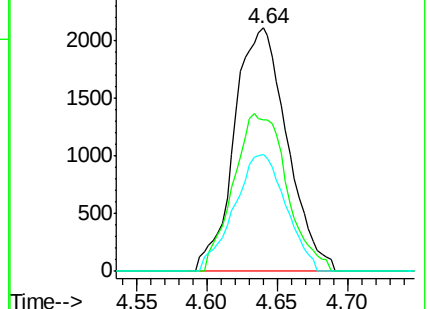
61 47.2 38.6 57.8



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: 0.086 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

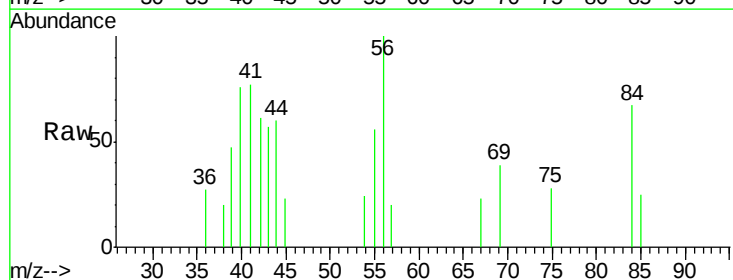
Tgt Ion: 56 Resp: 1281

Ion Ratio Lower Upper

56 100

69 36.8 23.9 35.9#

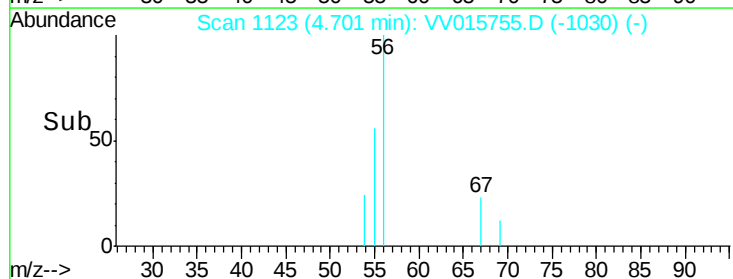
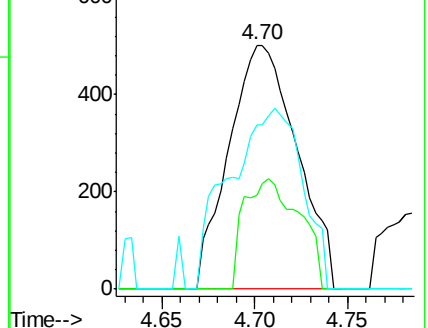
84 80.1 66.9 100.3

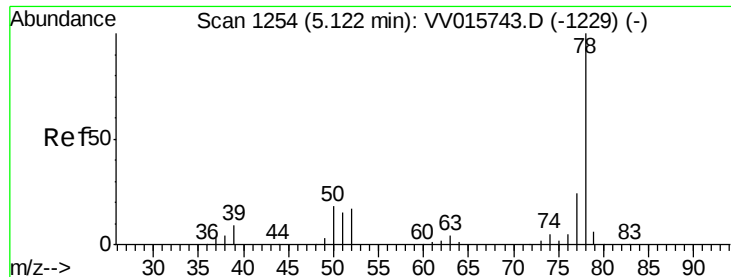


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#33

Benzene

Concen: 1.671 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

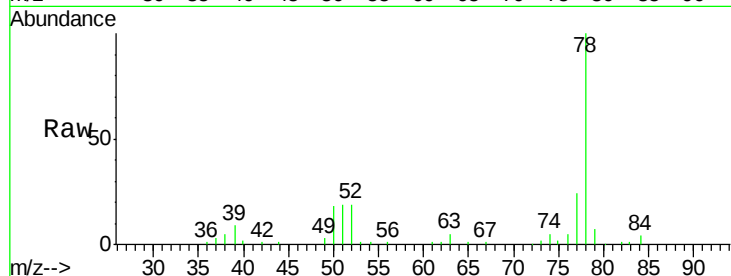
Instrument :

MSVOA_V

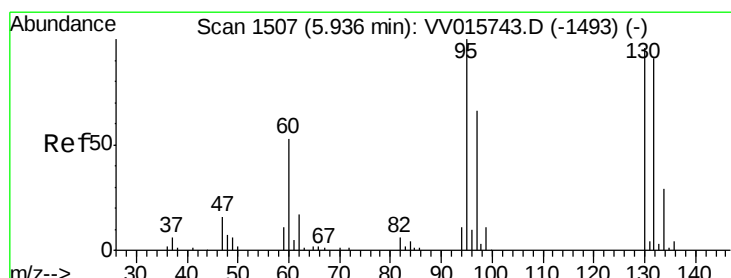
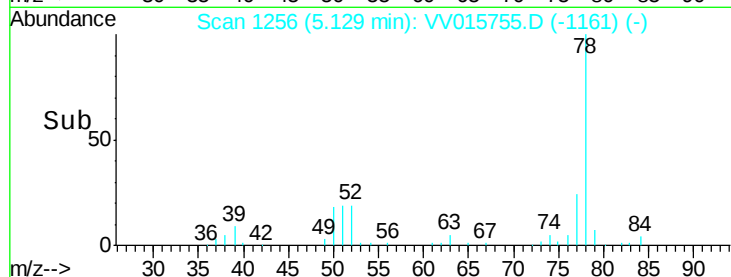
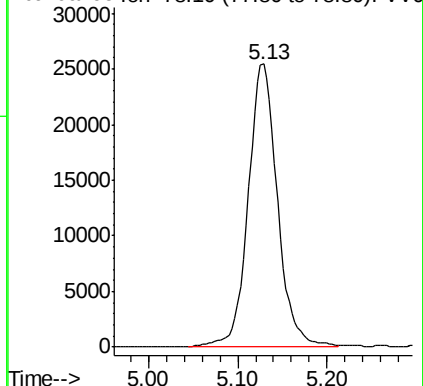
ClientSampleId :

BFSB2

Tgt Ion: 78 Resp: 58398



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 114.854 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Tgt Ion: 95 Resp: 1108213

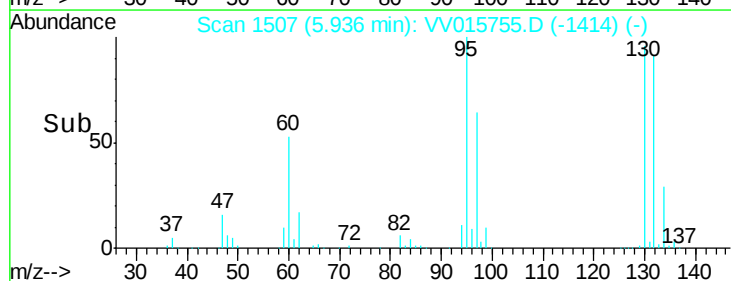
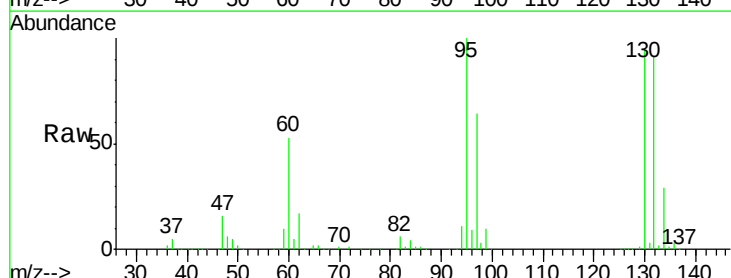
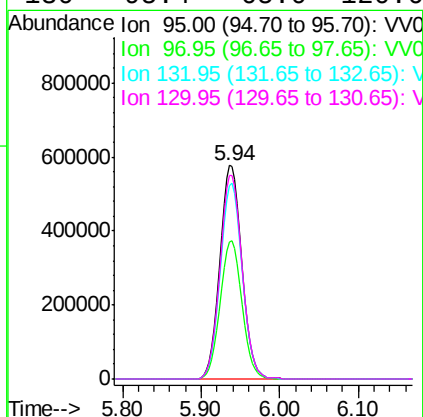
Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.7	82.9
132	90.7	65.2	121.0
130	95.4	65.0	120.6

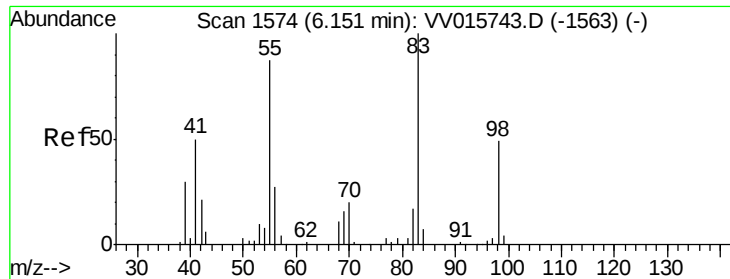
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

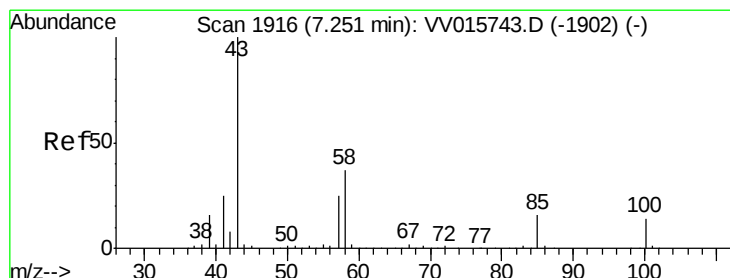
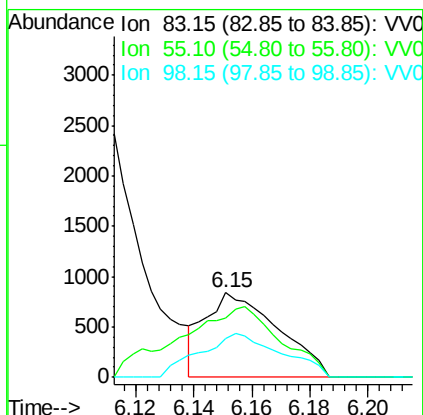
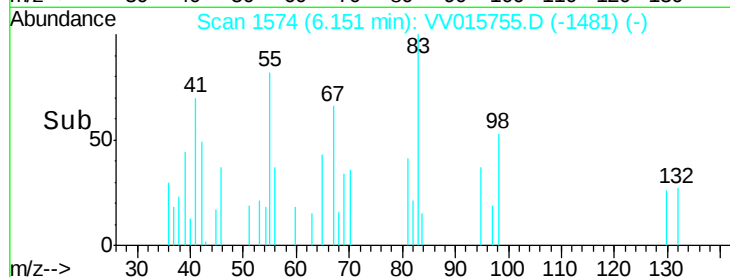
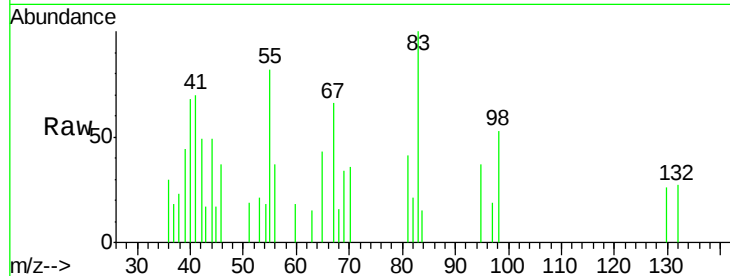




#35
Methylcyclohexane
Concen: 0.099 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VV015755.D
Acq: 28 Apr 2020 18:49

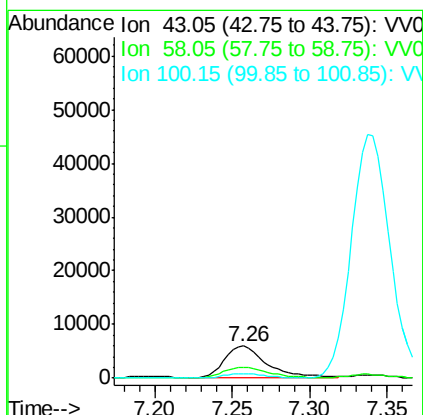
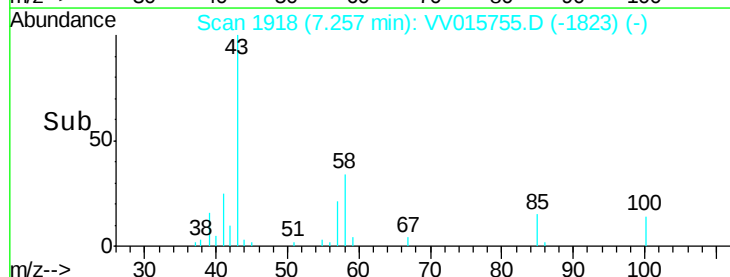
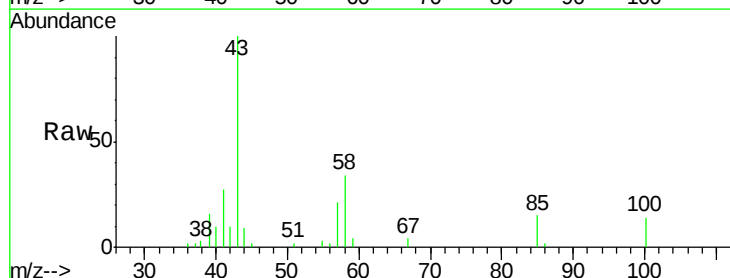
Instrument :
MSVOA_V
ClientSampled :
BFSB2

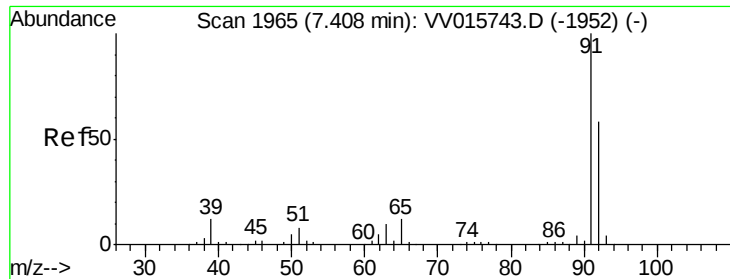
Tot Ion: 83 Resp: 1460
Ion Ratio Lower Upper
83 100
55 116.2 66.6 99.8#
98 0.0 39.5 59.3#



#40
4-Methyl-2-pentanone
Concen: 1.912 ug/L
RT: 7.26 min Scan# 1918
Delta R.T. 0.01 min
Lab File: VV015755.D
Acq: 28 Apr 2020 18:49

Tgt Ion: 43 Resp: 11021
Ion Ratio Lower Upper
43 100
58 37.5 29.2 43.8
100 0.0 11.4 17.2#





#42

Toluene

Concen: 14.297 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

ClientSampleId :

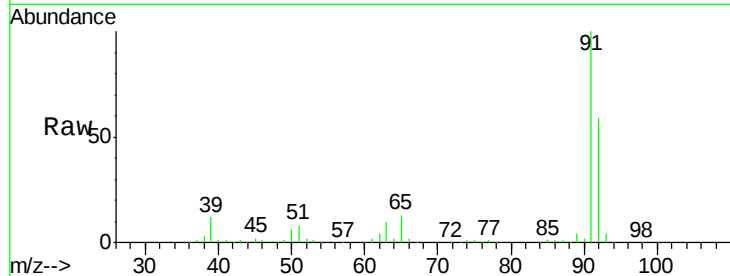
BFSB2

Tot Ion: 91 Resp: 533710

Ion Ratio Lower Upper

91 100

92 58.6 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV015743.D (-1952) (-)

Ion 92.15 (91.85 to 92.85): VV015743.D (-1952) (-)

7.41

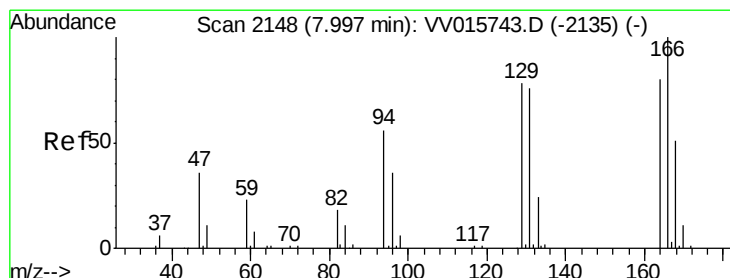
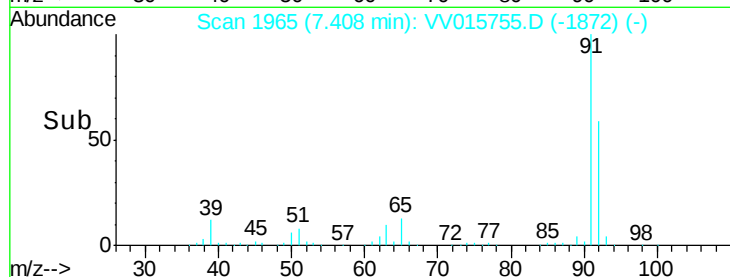
300000

200000

100000

0

Time-->



#47

Tetrachloroethene

Concen: 0.130 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Tgt Ion:164 Resp: 906

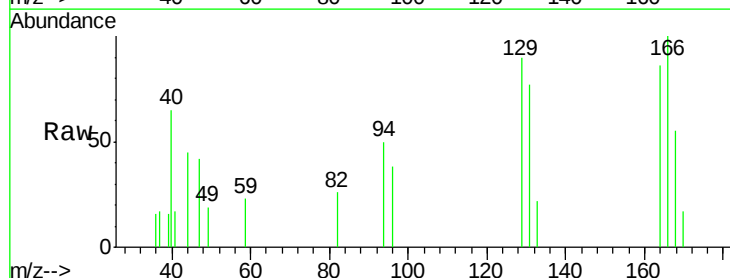
Ion Ratio Lower Upper

164 100

129 104.6 66.7 123.9

131 89.8 66.6 123.6

166 116.6 85.3 158.5



Abundance Ion 163.90 (163.60 to 164.60): VV015743.D (-2135) (-)

Ion 128.95 (128.65 to 129.65): VV015743.D (-2135) (-)

Ion 130.95 (130.65 to 131.65): VV015743.D (-2135) (-)

Ion 165.90 (165.60 to 166.60): VV015743.D (-2135) (-)

1000

800

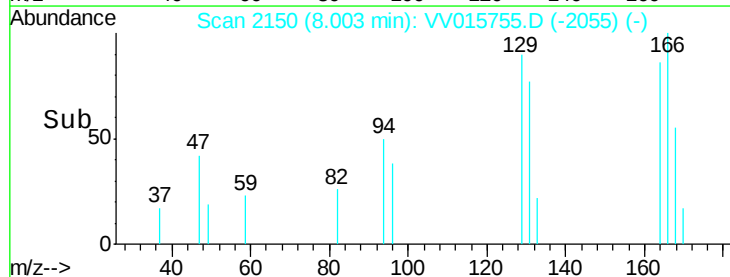
600

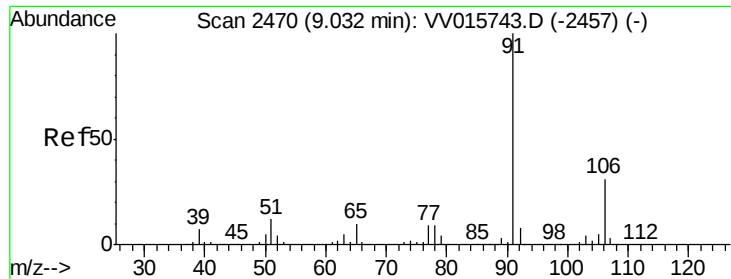
400

200

0

Time-->





#52

Ethylbenzene

Concen: 3.024 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

ClientSampleId :

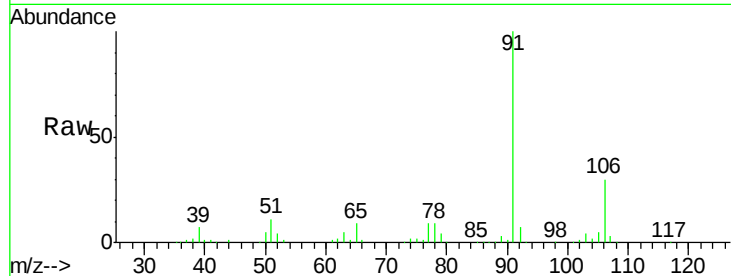
BFSB2

Tot Ion: 91 Resp: 130660

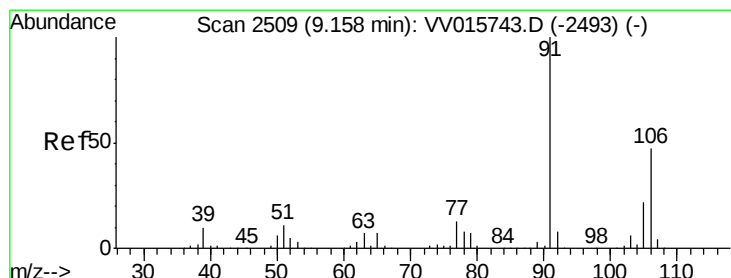
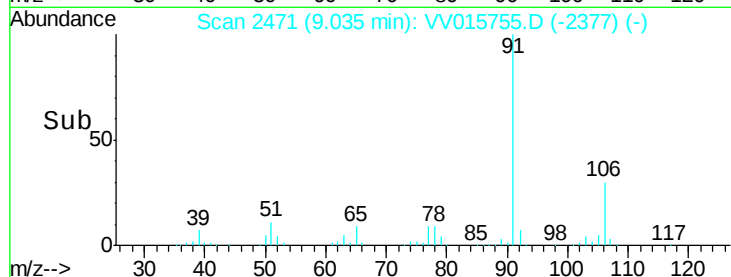
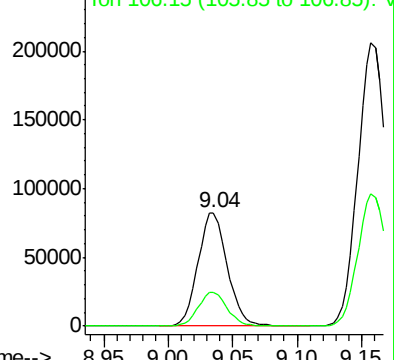
Ion Ratio Lower Upper

91 100

106 30.0 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV015755.D (-2377) (-)



#53

m,p-xylene

Concen: 9.862 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV015755.D

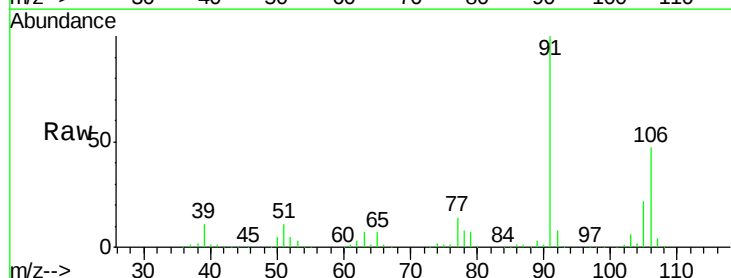
Acq: 28 Apr 2020 18:49

Tgt Ion: 106 Resp: 156064

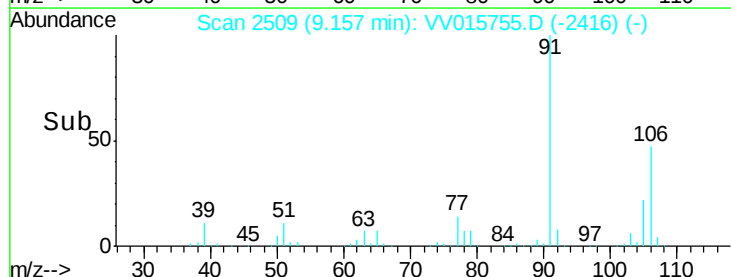
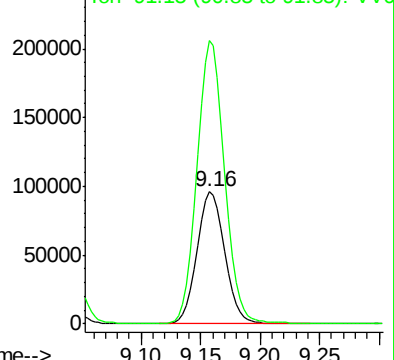
Ion Ratio Lower Upper

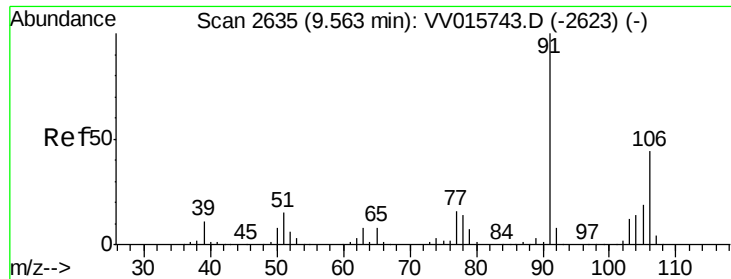
106 100

91 214.7 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): VV015755.D (-2416) (-)





#54

o-xylene

Concen: 4.567 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

Instrument :

MSVOA_V

ClientSampleId :

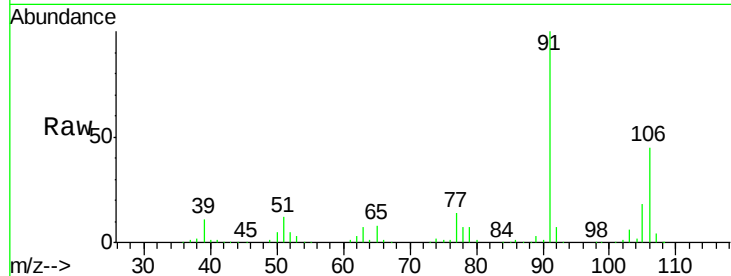
BFSB2

Tot Ion:106 Resp: 69932

Ion Ratio Lower Upper

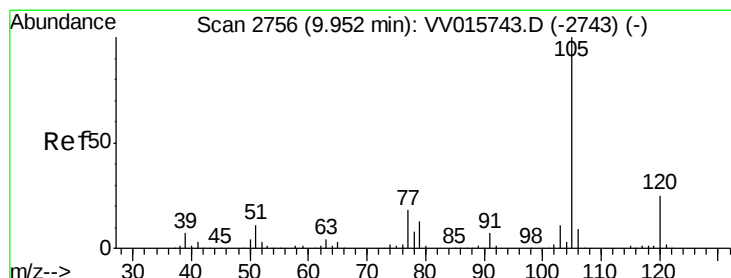
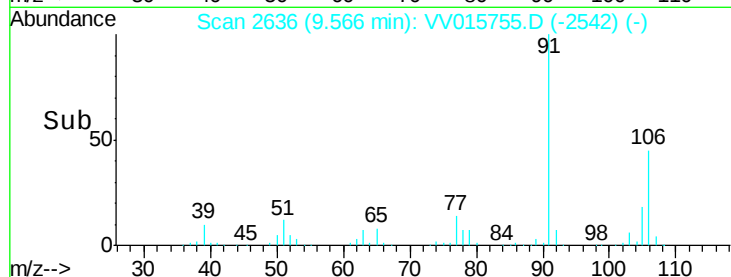
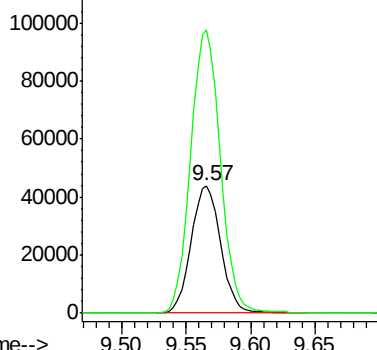
106 100

91 221.8 159.8 296.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

Isopropylbenzene

Concen: 0.199 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV015755.D

Acq: 28 Apr 2020 18:49

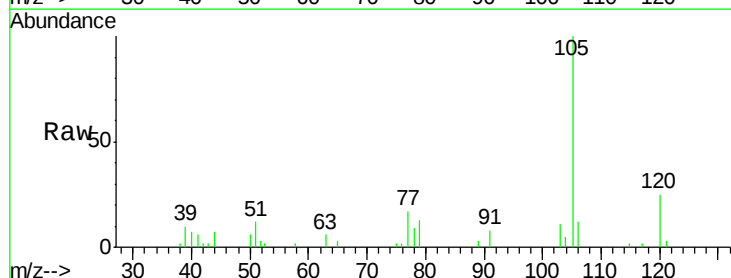
Tgt Ion:105 Resp: 8563

Ion Ratio Lower Upper

105 100

120 26.2 20.7 31.1

77 16.6 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0

