

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\
 Data File : VV015691.D
 Acq On : 25 Apr 2020 13:59
 Operator : SY/MD
 Sample : VV0425WBL01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 27 01:14:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Apr 27 01:12:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	129010	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	124020	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	59103	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	27850	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.58	69	28537	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.12	63	46794	3.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.40%
20) 2-Butanone-d5	3.95	46	112309	51.88	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.76%
24) Chloroform-d	4.38	84	73700	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
26) 1,2-Dichloroethane-d4	5.06	65	44561	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
32) Benzene-d6	5.08	84	139496	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.10	67	45542	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.34	98	126906	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
43) trans-1,3-Dichloropropene-	7.65	79	15046	4.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.20%
46) 2-Hexanone-d5	8.12	63	85762	48.08	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.16%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	33539	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	11.65	152	50274	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

				Ovalue
3) Chloromethane	1.24	50	737	0.077 ug/L # 71
6) Bromomethane	1.53	94	417	0.095 ug/L 91
8) Chloroethane	1.60	64	726	0.108 ug/L # 70
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	954	0.118 ug/L # 65
12) 1,1-Dichloroethene	2.12	96	1023	0.136 ug/L # 1
14) Carbon disulfide	2.30	76	1804	0.085 ug/L # 89
16) Methylene chloride	2.52	84	1269	0.137 ug/L 95
17) Methyl tert-butyl Ether	2.79	73	1436	0.068 ug/L # 91
19) 1,1-Dichloroethane	3.21	63	1190	0.072 ug/L # 86
22) cis-1,2-Dichloroethene	3.95	96	606	0.065 ug/L 98
25) Chloroform	4.41	83	4446	0.254 ug/L 90
27) 1,2-Dichloroethane	5.17	62	861	0.075 ug/L # 78
30) Cyclohexane	4.70	56	1230	0.082 ug/L # 81
33) Benzene	5.13	78	2340	0.066 ug/L 100
35) Methylcyclohexane	6.15	83	1250	0.083 ug/L # 78
37) 1,2-Dichloropropane	6.21	63	547	0.061 ug/L # 86
38) Bromodichloromethane	6.53	83	637	0.056 ug/L # 95

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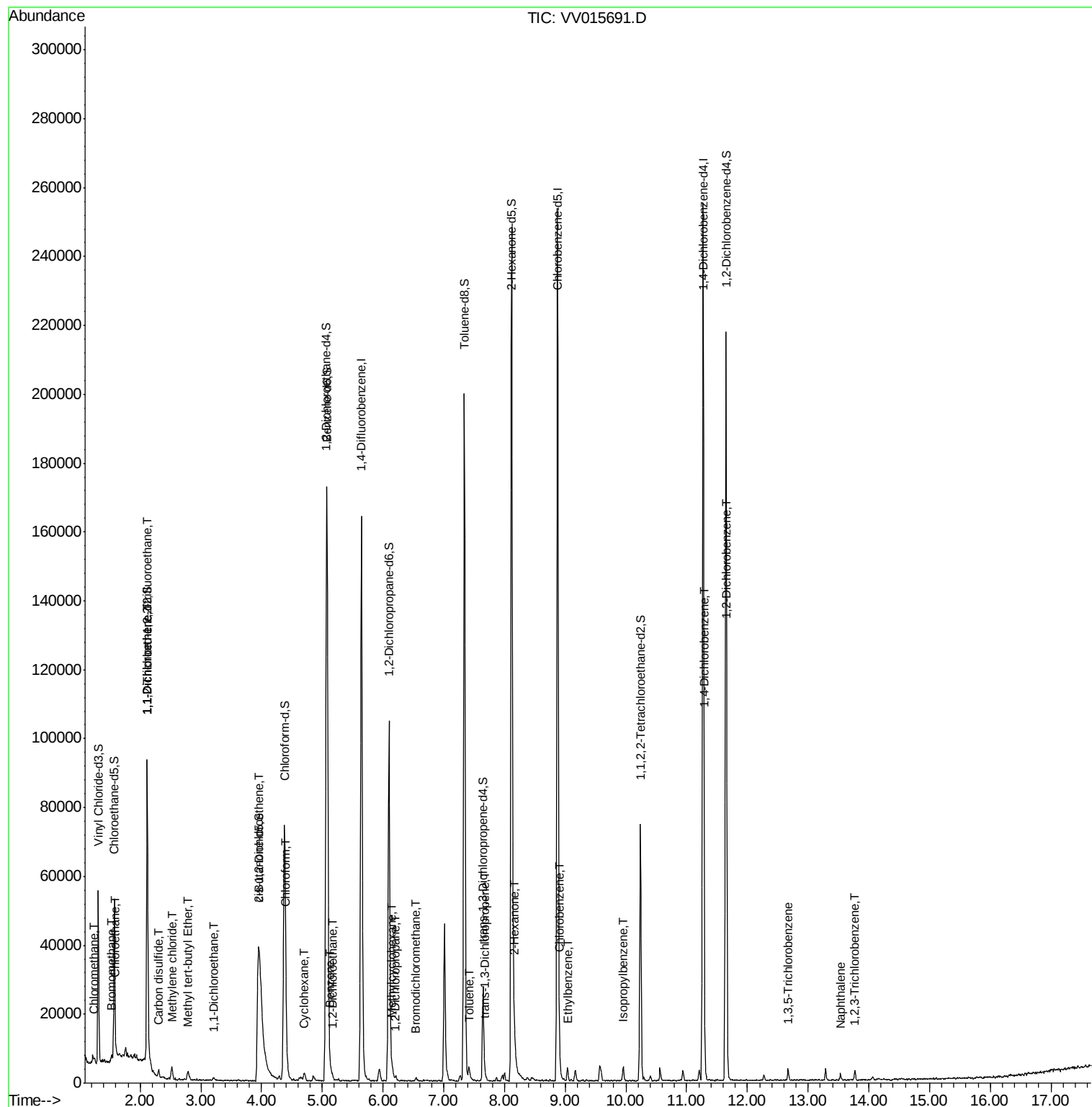
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	2715	0.072	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	734	0.070	ug/L	99
48) 2-Hexanone	8.16	43	4408	1.057	ug/L #	88
51) Chlorobenzene	8.91	112	1730	0.070	ug/L #	85
52) Ethylbenzene	9.04	91	2874	0.066	ug/L	94
56) Isopropylbenzene	9.96	105	2576	0.059	ug/L #	95
63) 1,4-Dichlorobenzene	11.30	146	1549	0.082	ug/L #	87
65) 1,2-Dichlorobenzene	11.67	146	1218	0.072	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.67	180	1014	0.073	ug/L	90
69) Naphthalene	13.53	128	1909	0.084	ug/L #	88
70) 1,2,3-Trichlorobenzene	13.77	180	1015	0.090	ug/L	98

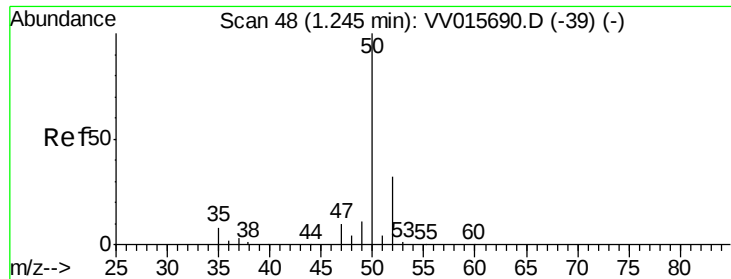
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.077 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Instrument :

MSVOA_V

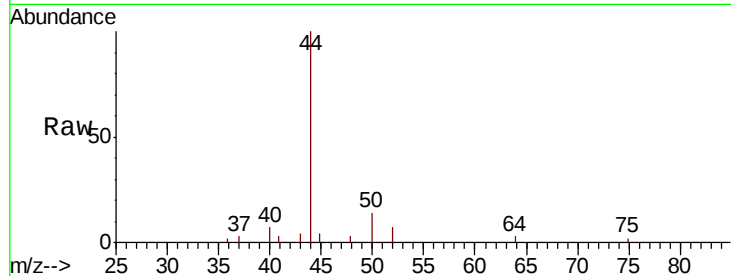
ClientSampleId :

Tot Ion: 50 Resp: 737

Ion Ratio Lower Upper

50 100

52 49.3 22.9 42.5#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.24

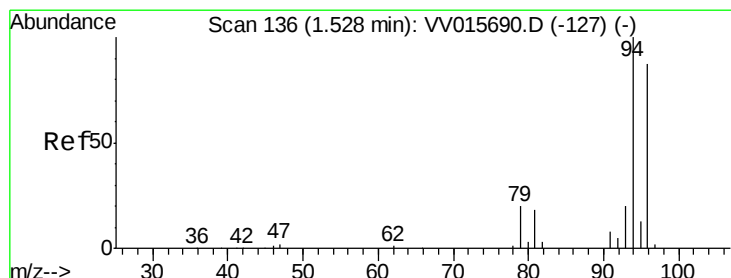
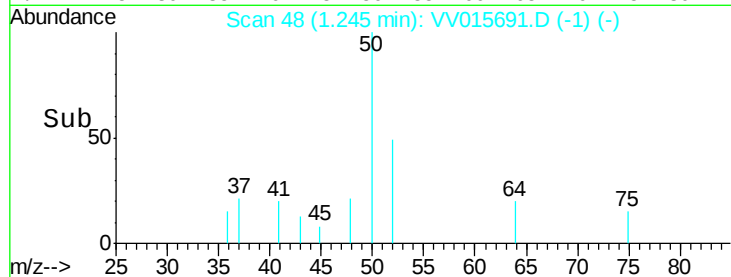
600

400

200

0

Time-->



#6

Bromomethane

Concen: 0.095 ug/L

RT: 1.53 min Scan# 136

Delta R.T. -0.00 min

Lab File: VV015691.D

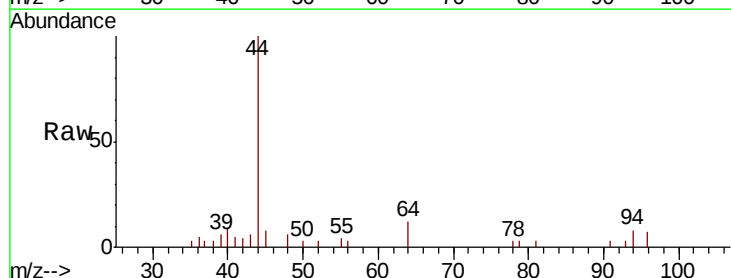
Acq: 25 Apr 2020 13:59

Tgt Ion: 94 Resp: 417

Ion Ratio Lower Upper

94 100

96 87.6 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

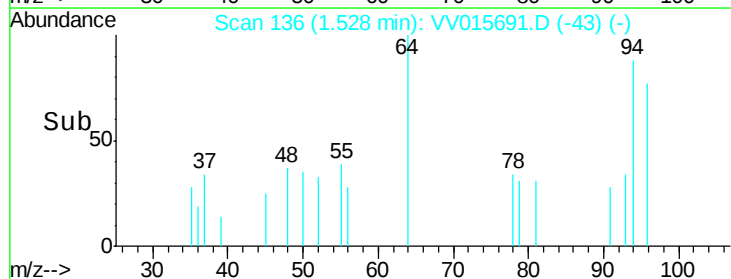
300

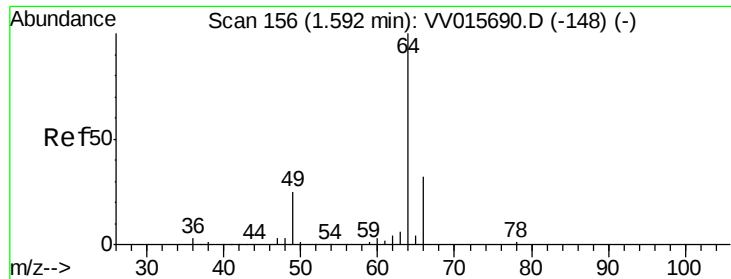
200

100

0

Time-->





#8

Chloroethane

Concen: 0.108 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.01 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Instrument :

MSVOA_V

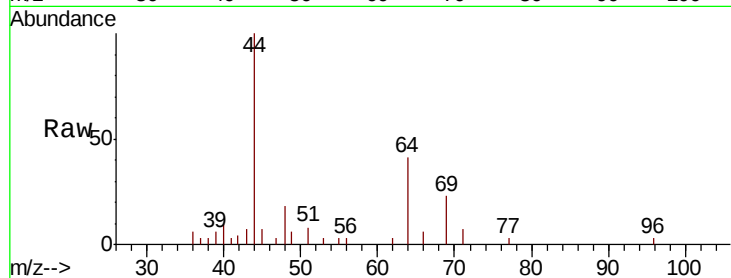
ClientSampleId :

Tot Ion: 64 Resp: 726

Ion Ratio Lower Upper

64 100

66 15.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.60

1500

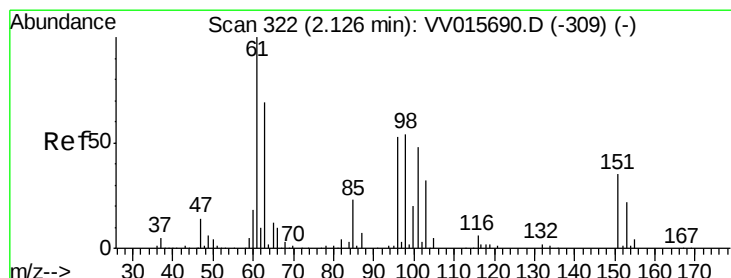
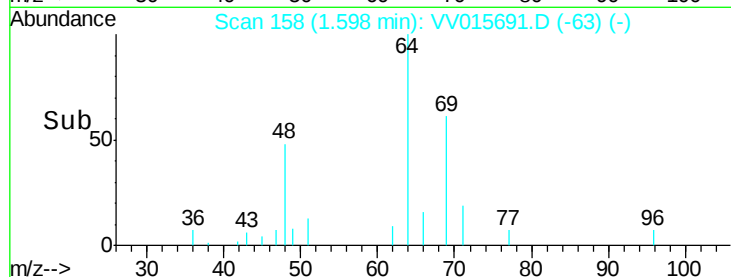
1000

500

0

1.56 1.58 1.60 1.62

Time-->



#10

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

Concen: 0.118 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

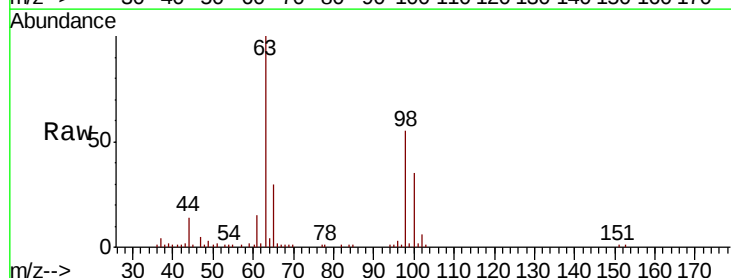
Tgt Ion:101 Resp: 954

Ion Ratio Lower Upper

101 100

85 24.9 36.1 54.1#

151 38.5 55.2 82.8#



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

600

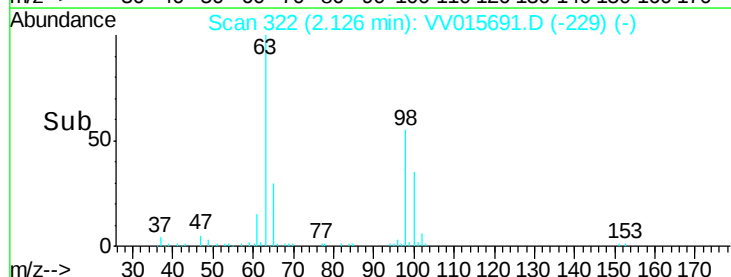
400

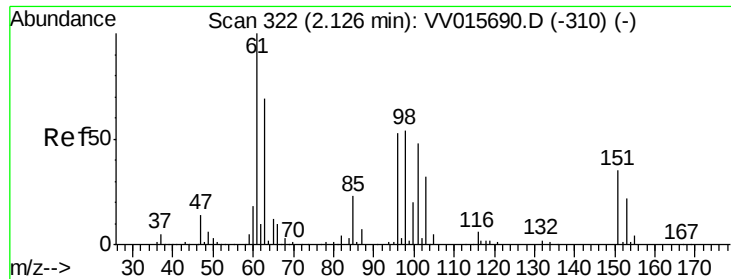
200

0

2.10 2.13 2.15

Time-->





#12

1,1-Dichloroethene

Concen: 0.136 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Instrument :

MSVOA_V

ClientSampleId :

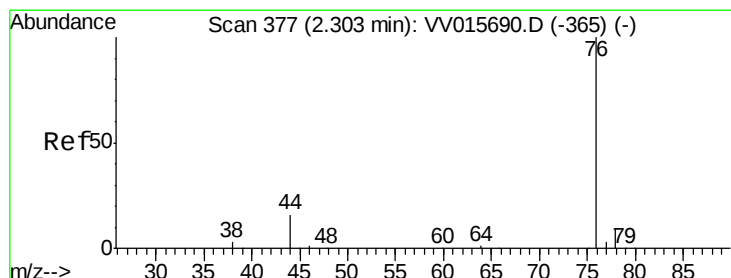
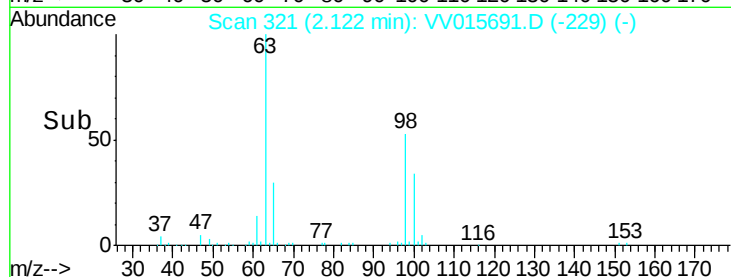
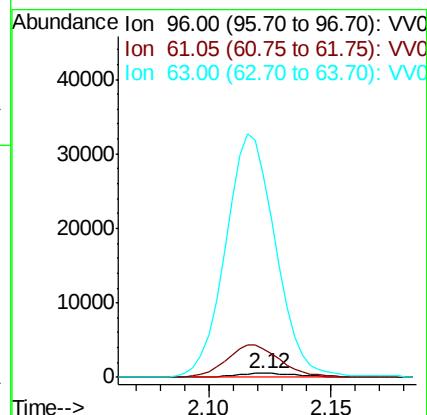
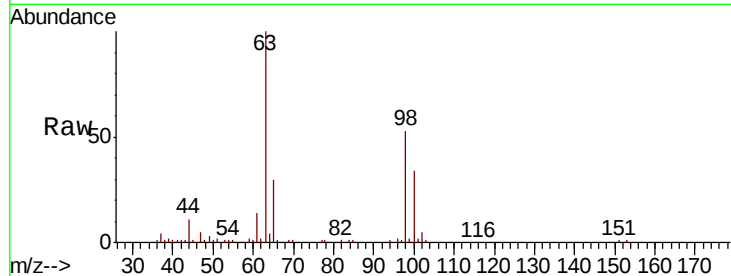
Tot Ion: 96 Resp: 1023

Ion Ratio Lower Upper

96 100

61 698.0 130.1 241.7#

63 4942.7 91.4 169.8#



#14

Carbon disulfide

Concen: 0.085 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.00 min

Lab File: VV015691.D

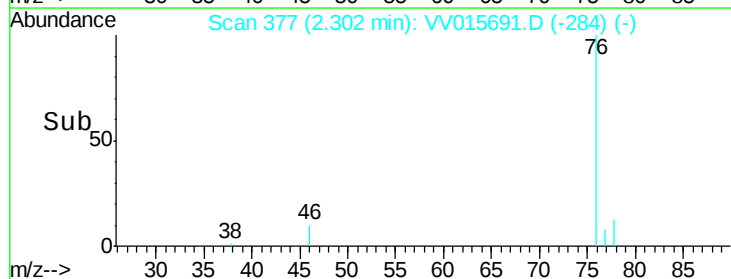
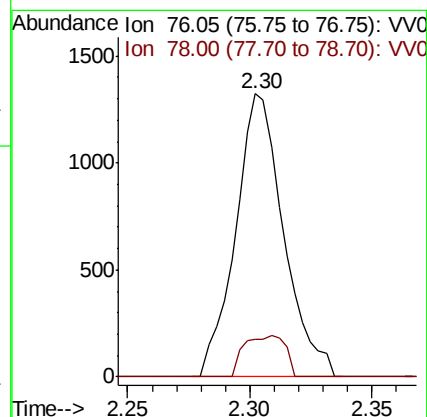
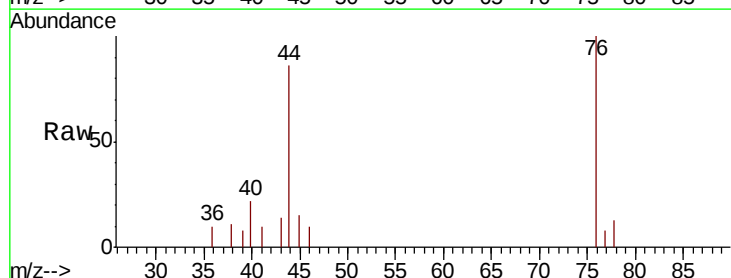
Acq: 25 Apr 2020 13:59

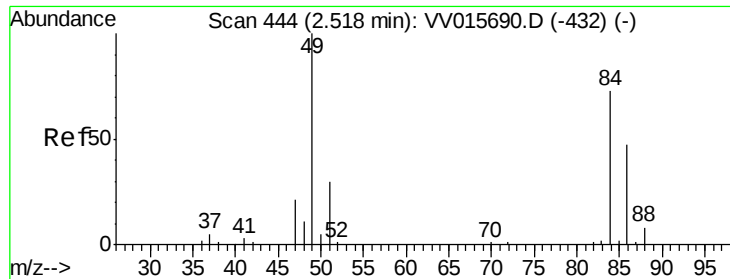
Tgt Ion: 76 Resp: 1804

Ion Ratio Lower Upper

76 100

78 13.2 7.4 11.0#

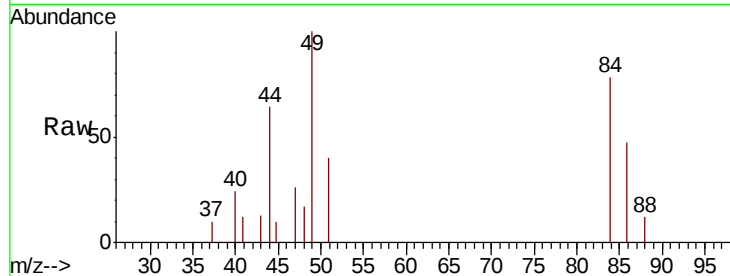




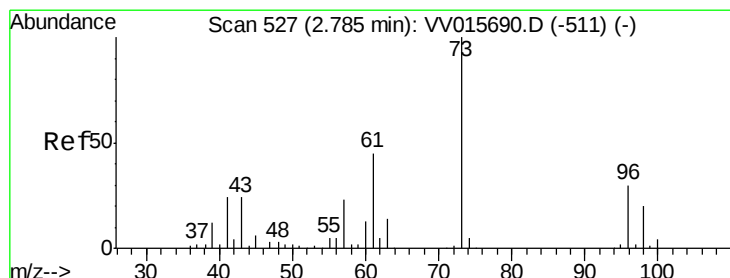
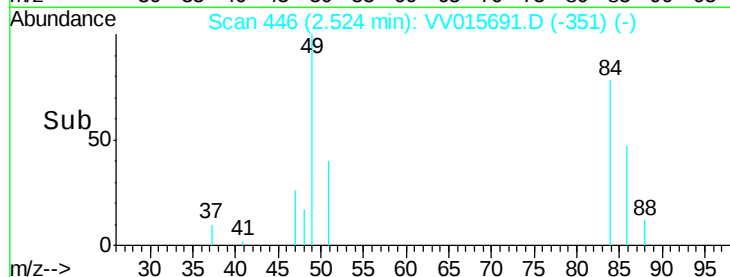
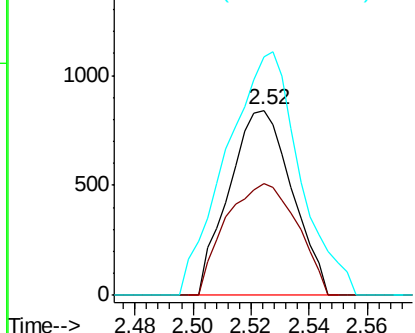
#16
Methvlene chloride
Concen: 0.137 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 84 Resp: 1269
Ion Ratio Lower Upper
84 100
86 60.3 45.1 83.7
49 129.0 94.4 175.4

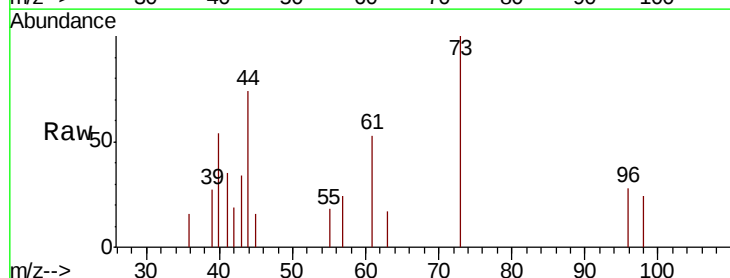


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

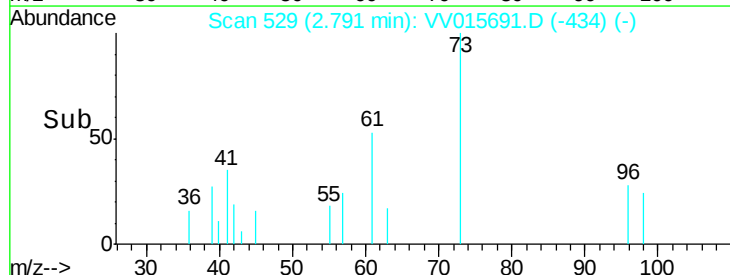
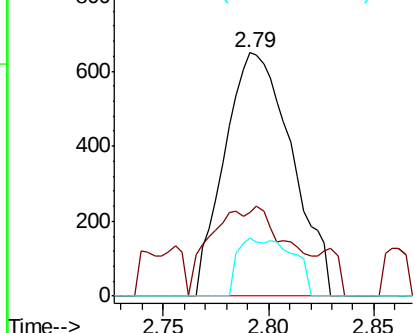


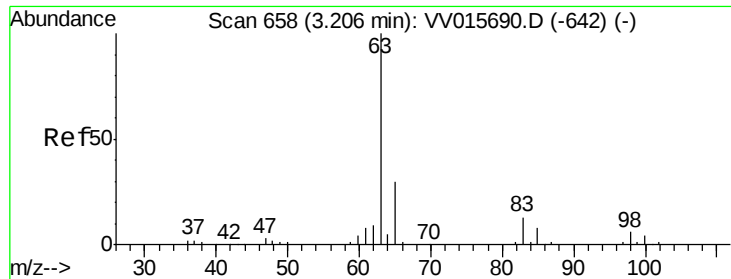
#17
Methyl tert-butyl Ether
Concen: 0.068 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 73 Resp: 1436
Ion Ratio Lower Upper
73 100
43 19.4 20.1 30.1#
57 19.4 17.8 26.8



Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

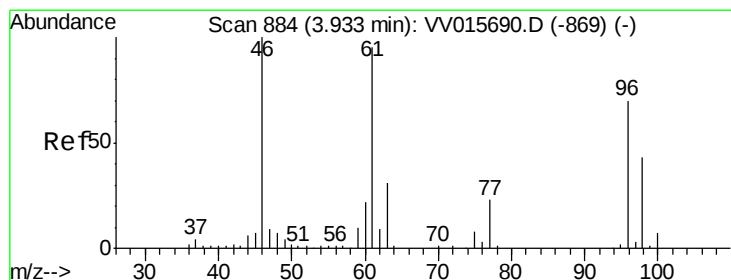
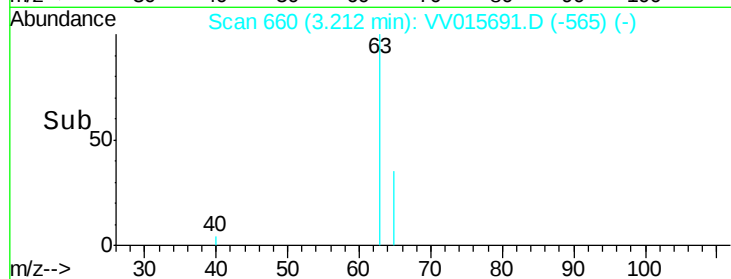
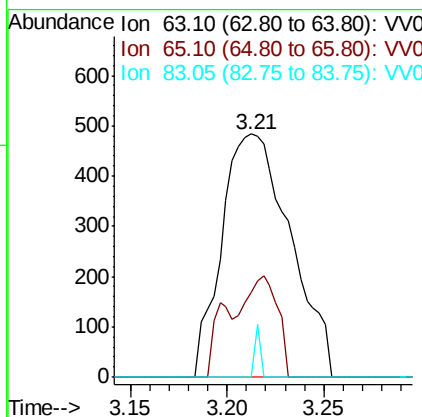
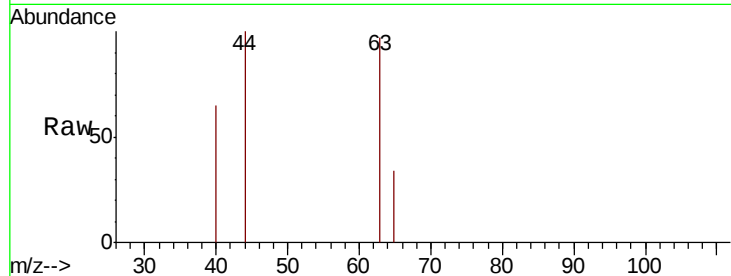




#19
 1,1-Dichloroethane
 Concen: 0.072 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.01 min
 Lab File: VV015691.D
 Acq: 25 Apr 2020 13:59

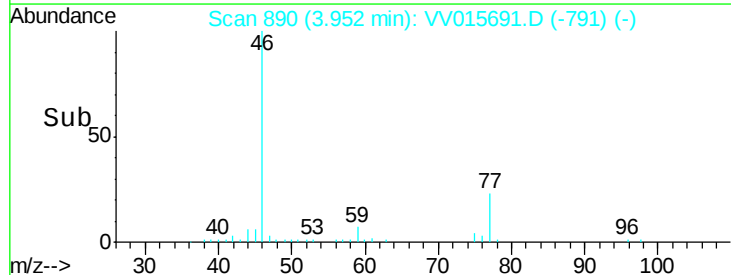
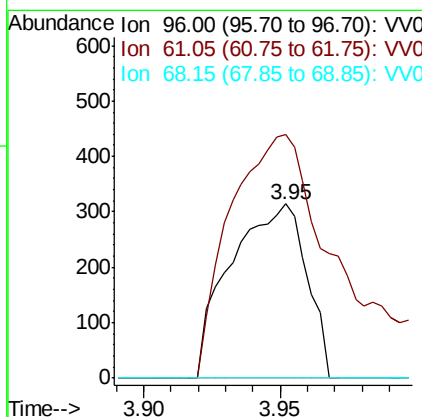
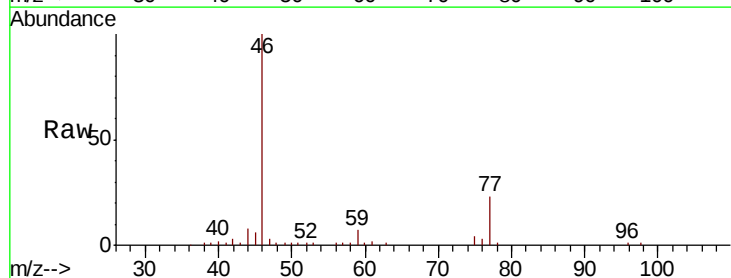
Instrument :
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 ClientSampleId :

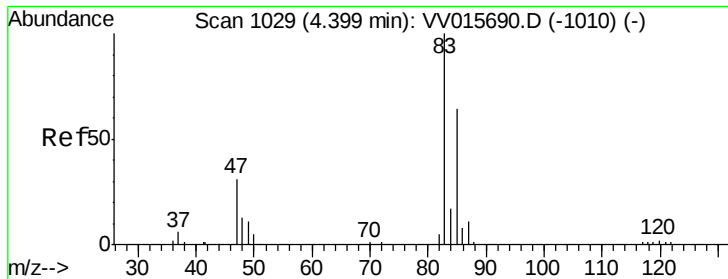
Tot Ion: 63 Resp: 1190
 Ion Ratio Lower Upper
 63 100
 65 34.9 22.3 41.3
 83 0.0 9.3 17.3#



#22
 cis-1,2-Dichloroethene
 Concen: 0.065 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. 0.02 min
 Lab File: VV015691.D
 Acq: 25 Apr 2020 13:59

Tgt Ion: 96 Resp: 606
 Ion Ratio Lower Upper
 96 100
 61 139.8 96.4 179.0
 68 0.0 0.0 0.0

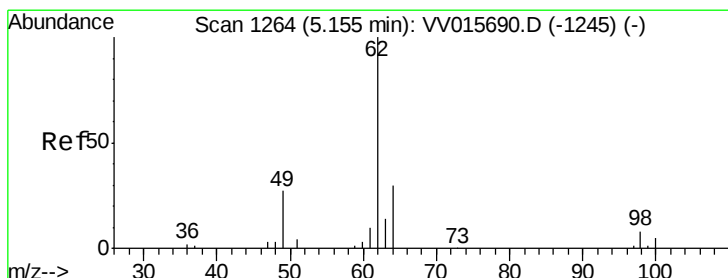
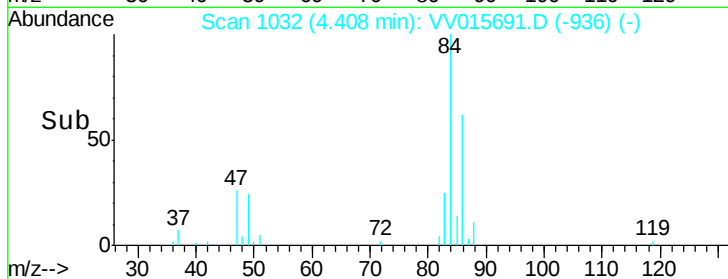
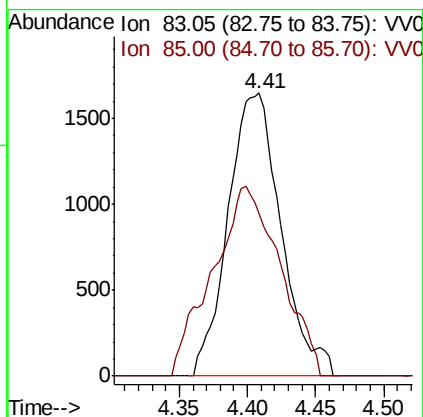
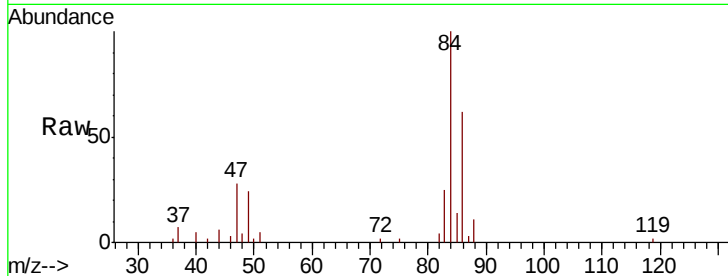




#25
Chloroform
Concen: 0.254 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV015691.D
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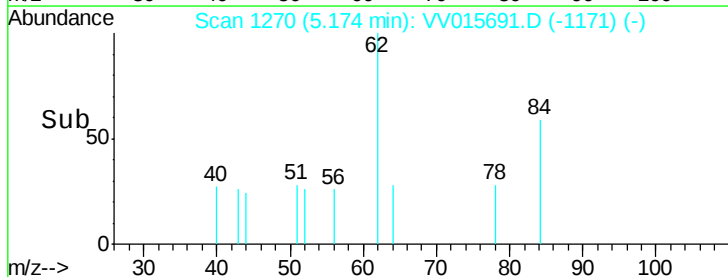
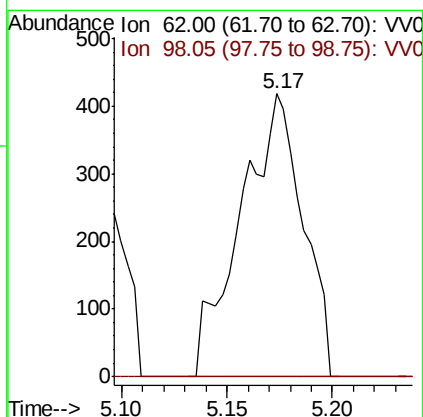
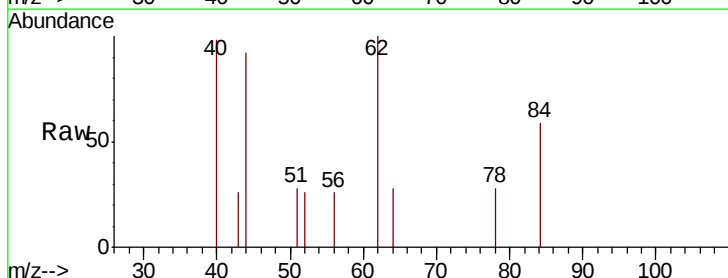
Instrument :
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ClientSampled :

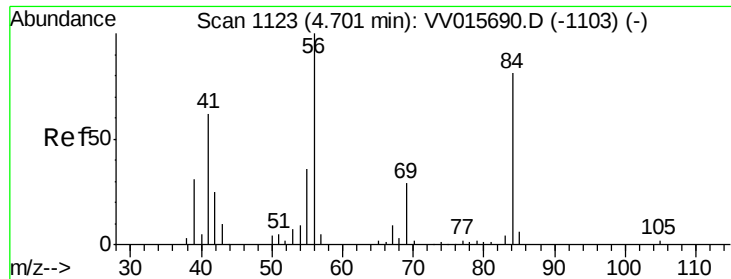
Tot Ion: 83 Resp: 4446
Ion Ratio Lower Upper
83 100
85 57.6 46.1 85.5



#27
1,2-Dichloroethane
Concen: 0.075 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.02 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 62 Resp: 861
Ion Ratio Lower Upper
62 100
98 0.0 6.3 9.5#

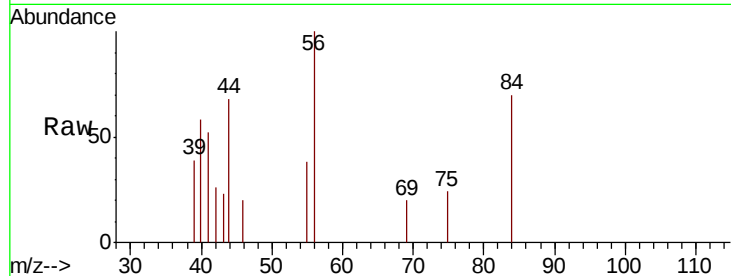




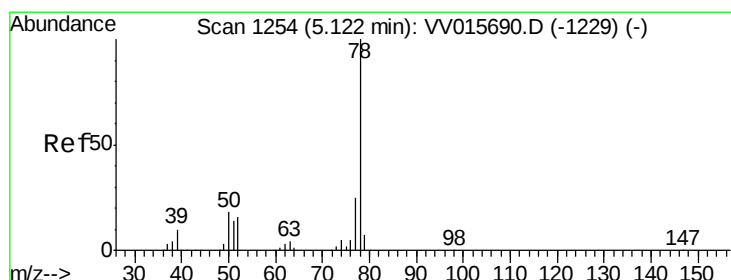
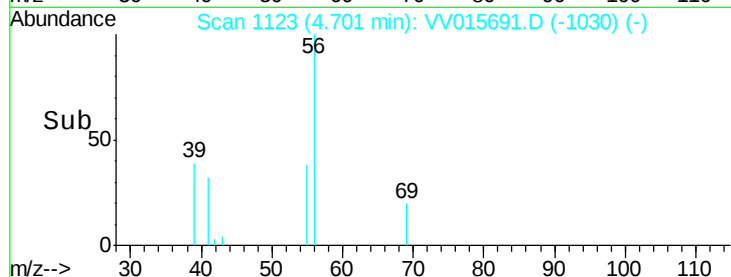
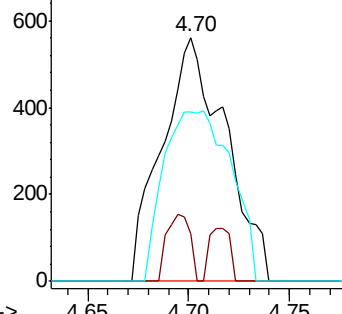
#30
Cyclohexane
Concen: 0.082 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 1230
Ion Ratio Lower Upper
56 100
69 7.2 23.9 35.9#
84 74.3 66.9 100.3

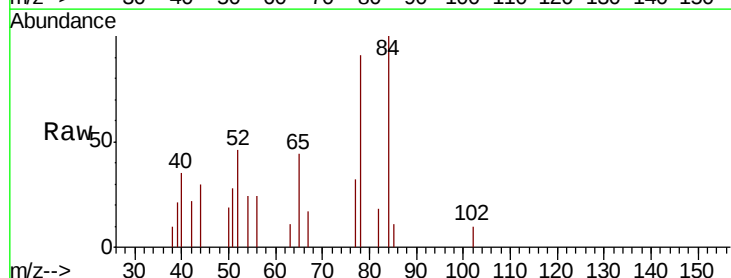


Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0

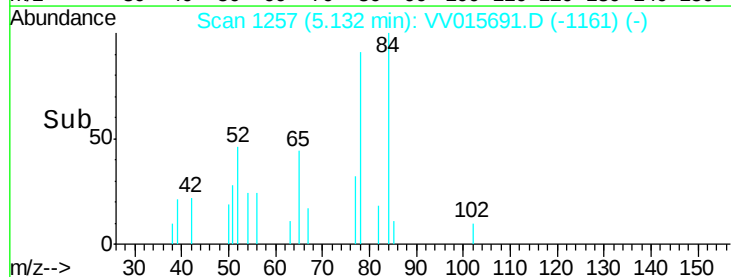
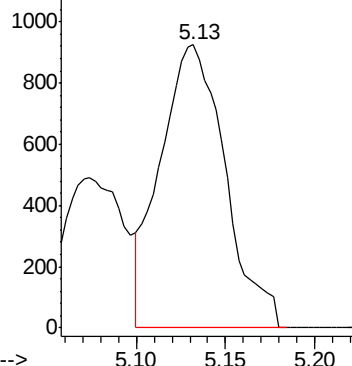


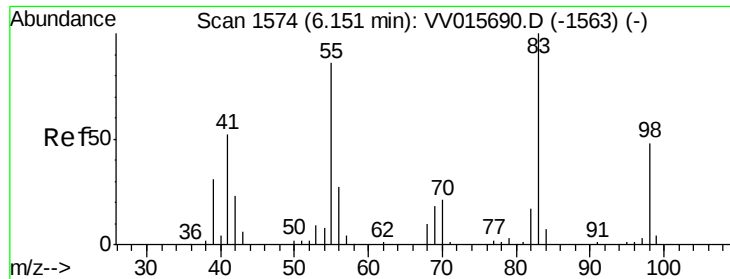
#33
Benzene
Concen: 0.066 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 78 Resp: 2340



Abundance Ion 78.10 (77.80 to 78.80): VV0

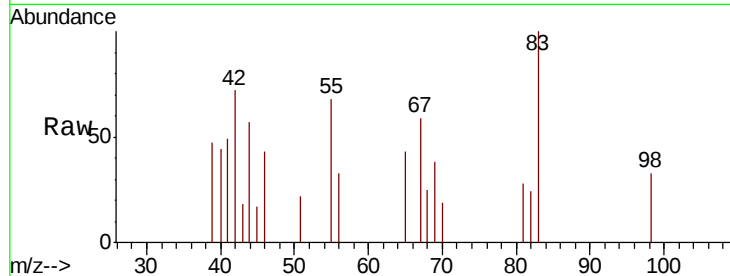




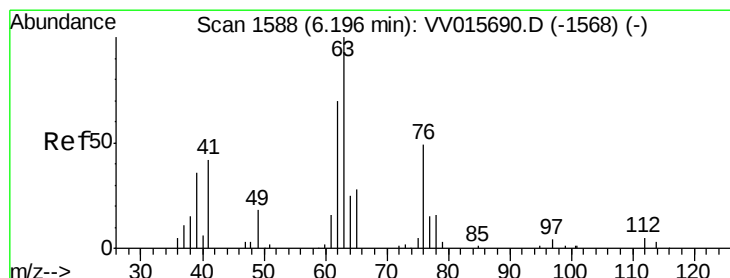
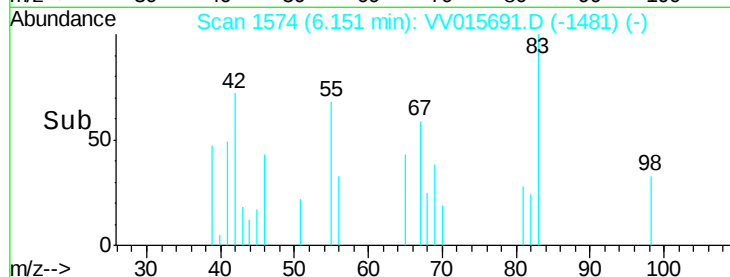
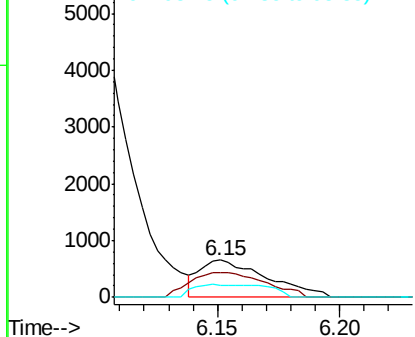
#35
Methvlcvclohexane
Concen: 0.083 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 1250
Ion Ratio Lower Upper
83 100
55 75.4 66.6 99.8
98 18.2 39.5 59.3#

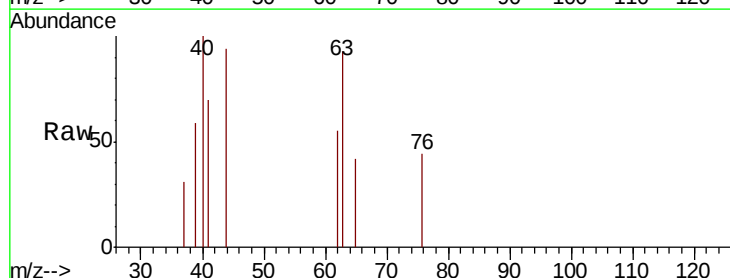


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

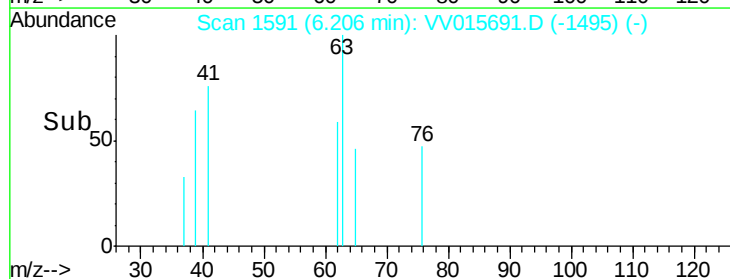
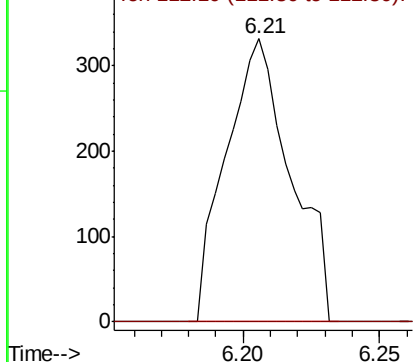


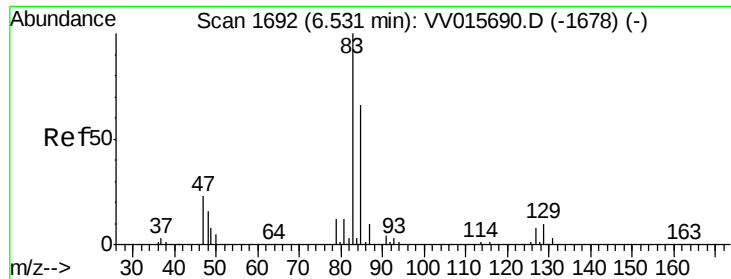
#37
1,2-Dichloropropane
Concen: 0.061 ug/L
RT: 6.21 min Scan# 1591
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 63 Resp: 547
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

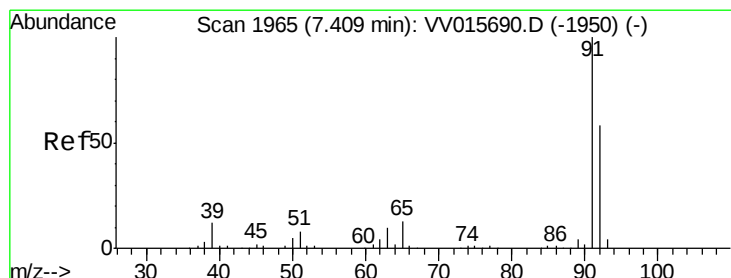
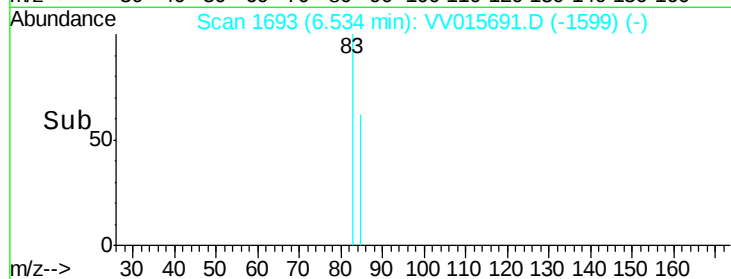
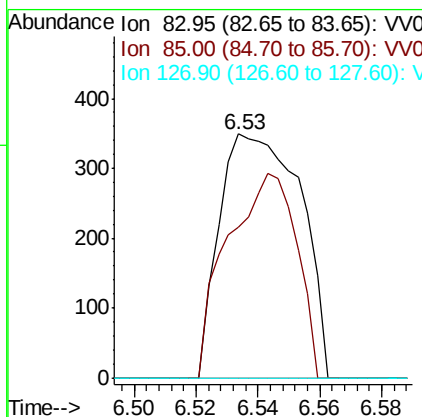
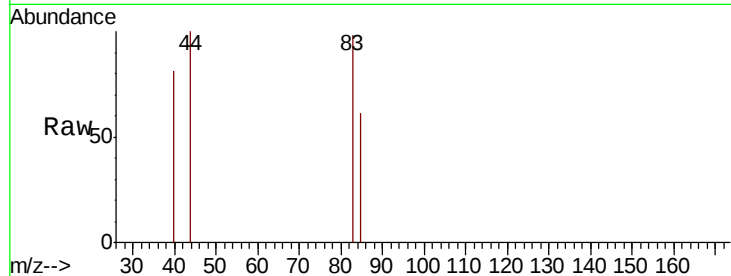




#38
Bromodichloromethane
Concen: 0.056 ug/L
RT: 6.53 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

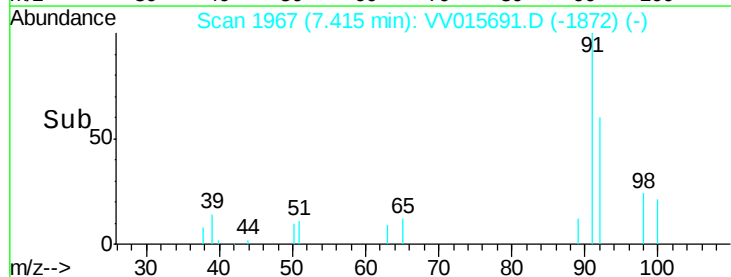
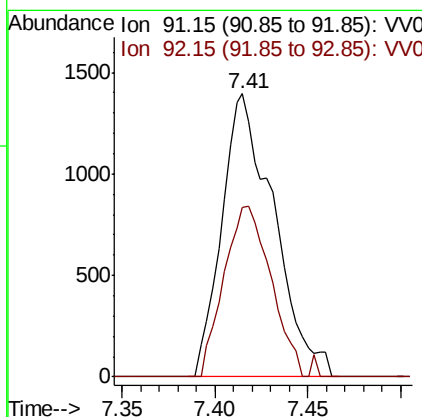
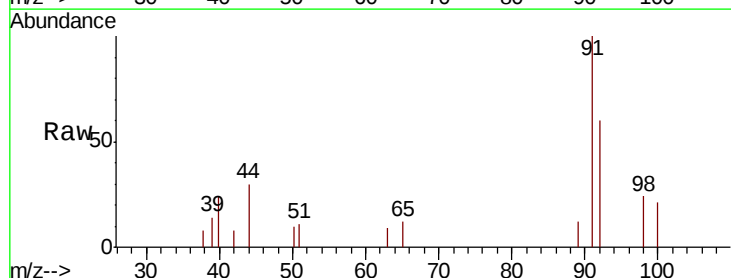
Instrument :
MSVOA_V
ClientSampleId :

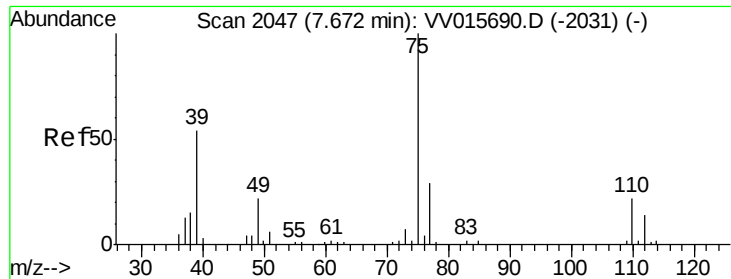
Tot Ion: 83 Resp: 637
Ion Ratio Lower Upper
83 100
85 61.6 44.7 83.1
127 0.0 5.8 8.6#



#42
Toluene
Concen: 0.072 ug/L
RT: 7.41 min Scan# 1967
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 91 Resp: 2715
Ion Ratio Lower Upper
91 100
92 59.9 40.7 75.7

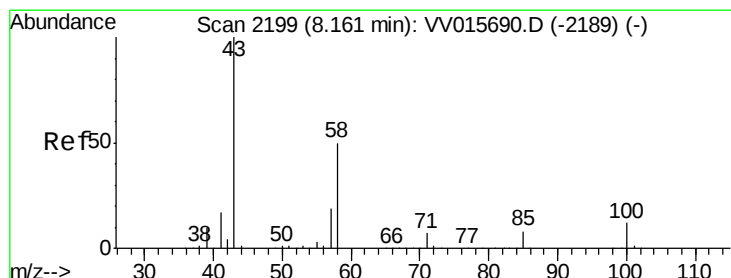
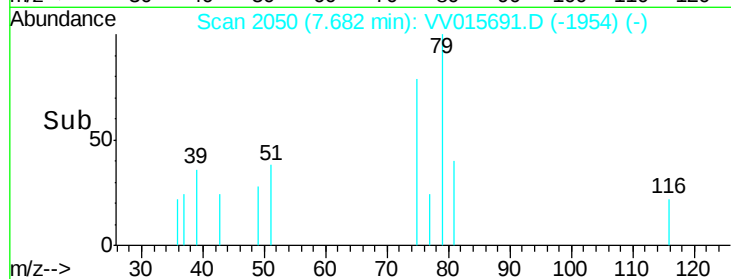
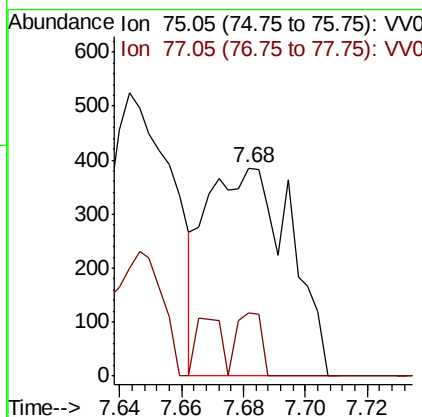
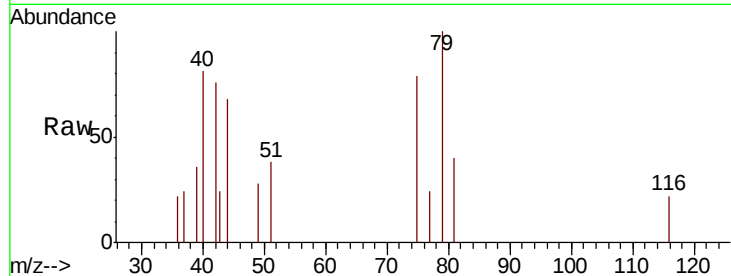




#44
trans-1,3-Dichloropropene
Concen: 0.070 ug/L
RT: 7.68 min Scan# 2050
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

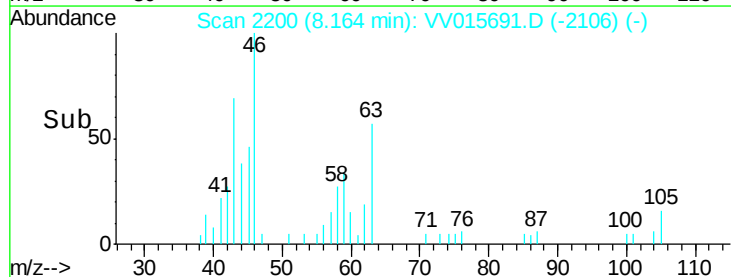
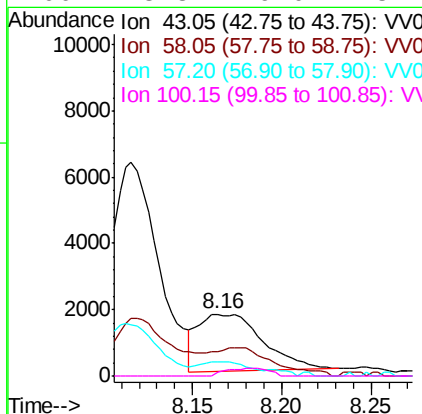
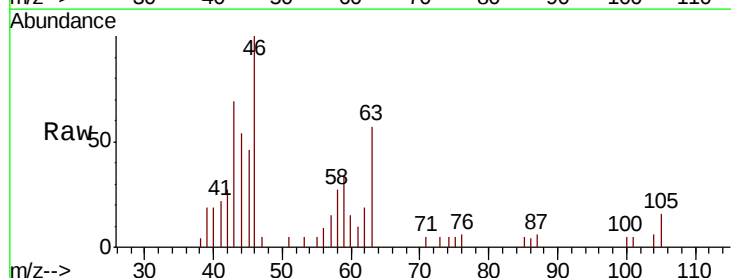
Instrument :
MSVOA_V
ClientSampled :

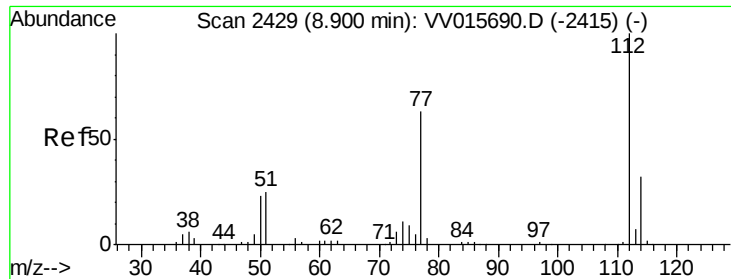
Tot Ion: 75 Resp: 734
Ion Ratio Lower Upper
75 100
77 30.4 21.8 40.6



#48
2-Hexanone
Concen: 1.057 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 43 Resp: 4408
Ion Ratio Lower Upper
43 100
58 41.7 41.1 61.7
57 22.7 15.0 22.4#
100 8.8 9.0 13.4#

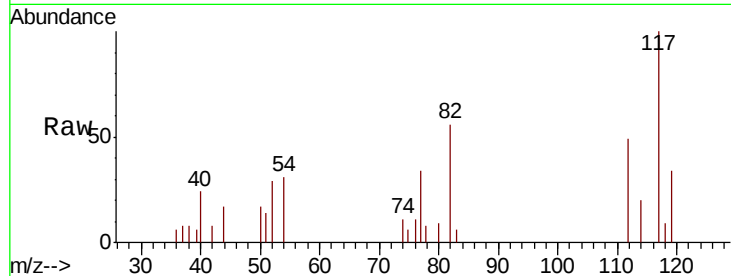




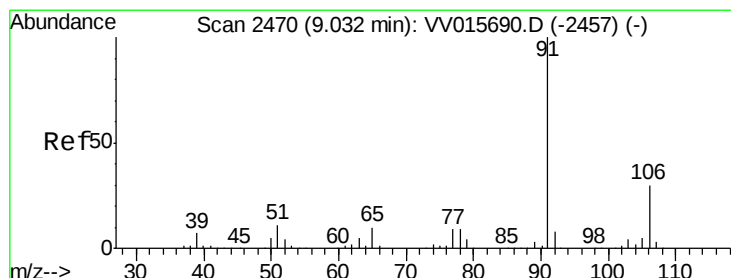
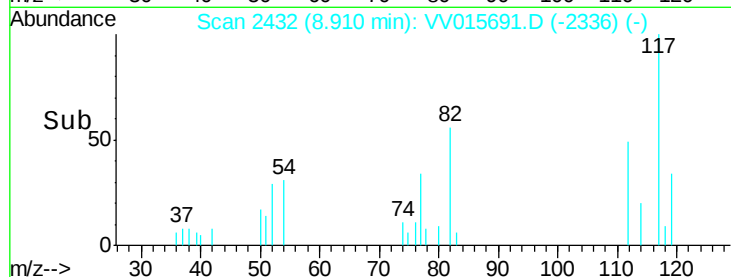
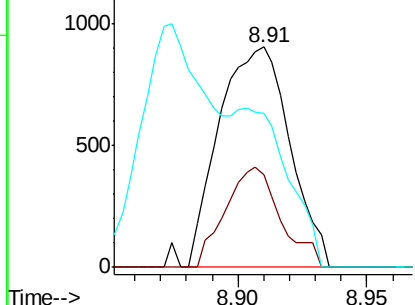
#51
Chlorobenzene
Concen: 0.070 ug/L
RT: 8.91 min Scan# 2432
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 112 Resp: 1730
Ion Ratio Lower Upper
112 100
114 42.0 21.6 40.2#
77 70.2 48.9 73.3

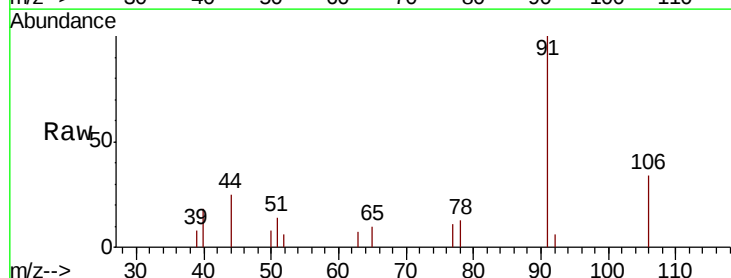


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

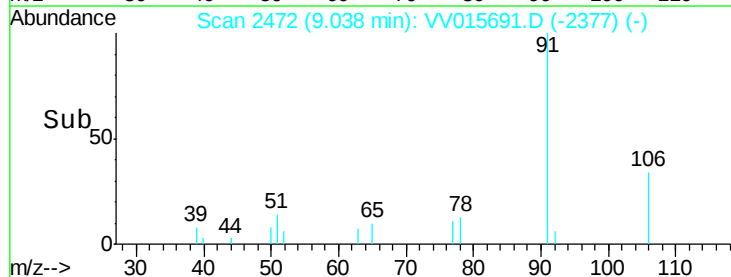
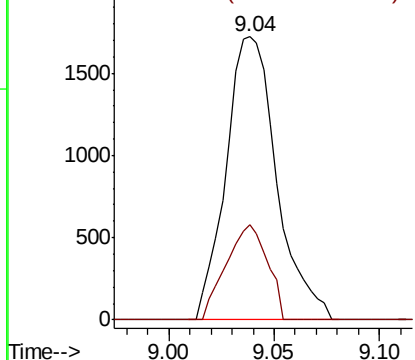


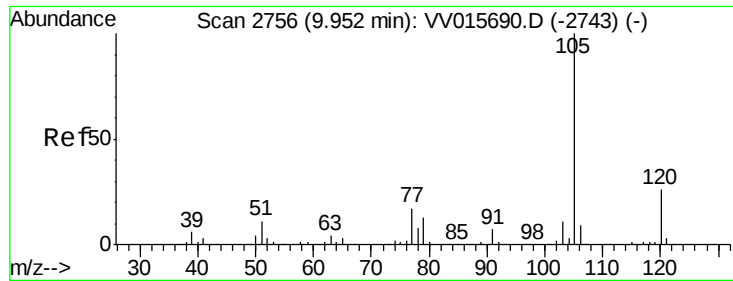
#52
Ethylbenzene
Concen: 0.066 ug/L
RT: 9.04 min Scan# 2472
Delta R.T. 0.01 min
Lab File: VV015691.D
Acq: 25 Apr 2020 13:59

Tgt Ion: 91 Resp: 2874
Ion Ratio Lower Upper
91 100
106 33.7 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 106.15 (105.85 to 106.85): V





#56

Isopropylbenzene

Concen: 0.059 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Instrument :

MSVOA_V

ClientSampleId :

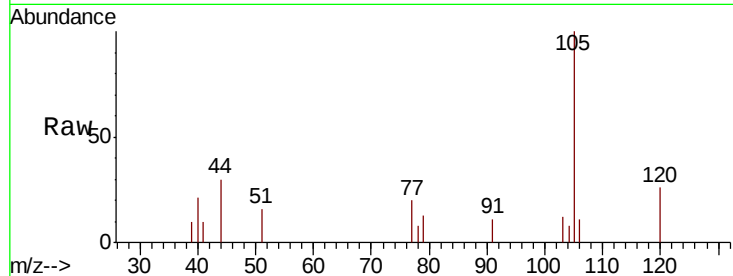
Tot Ion:105 Resp: 2576

Ion Ratio Lower Upper

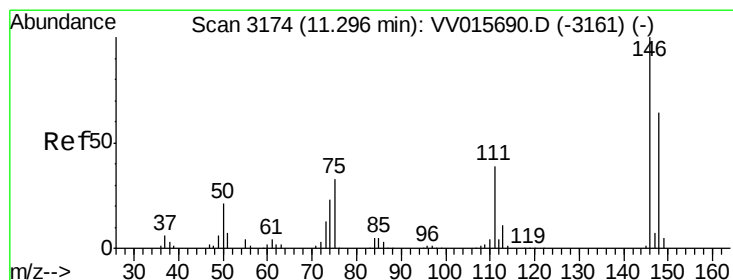
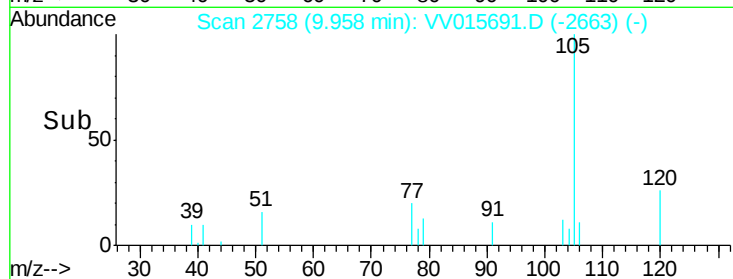
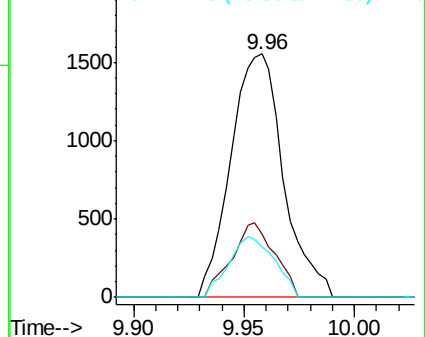
105 100

120 24.8 20.7 31.1

77 21.6 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): V



#63

1,4-Dichlorobenzene

Concen: 0.082 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

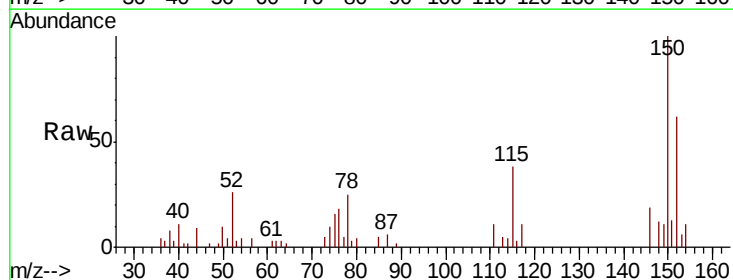
Tgt Ion:146 Resp: 1549

Ion Ratio Lower Upper

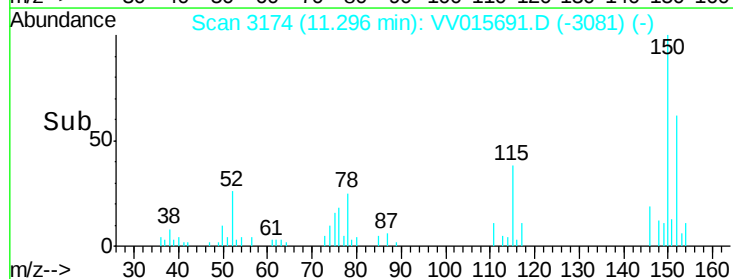
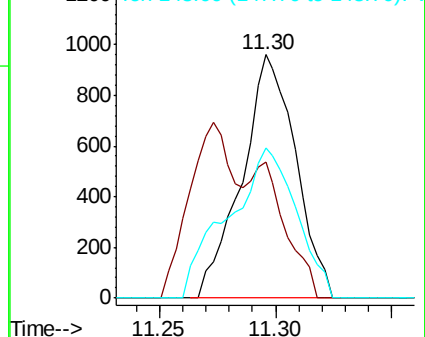
146 100

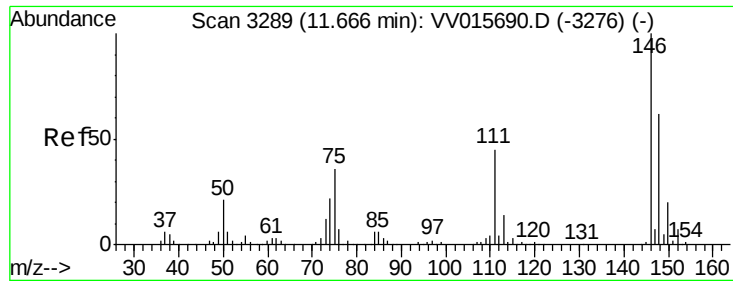
111 56.1 28.2 52.4#

148 61.5 45.7 84.9



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





#65

1,2-Dichlorobenzene

Concen: 0.072 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Instrument :

MSVOA_V

ClientSampled :

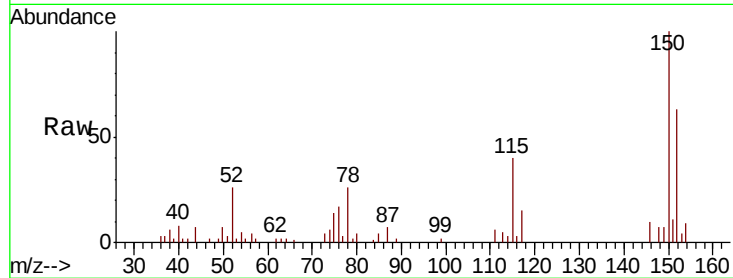
Tot Ion:146 Resp: 1218

Ion Ratio Lower Upper

146 100

111 59.1 34.7 52.1#

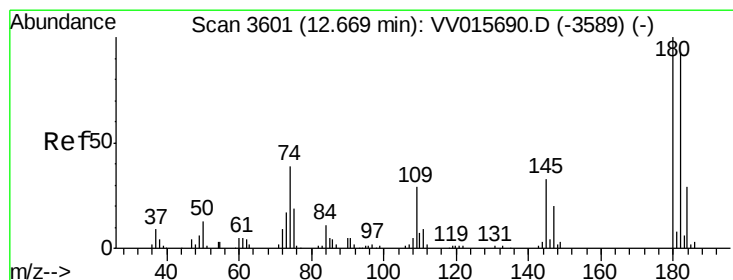
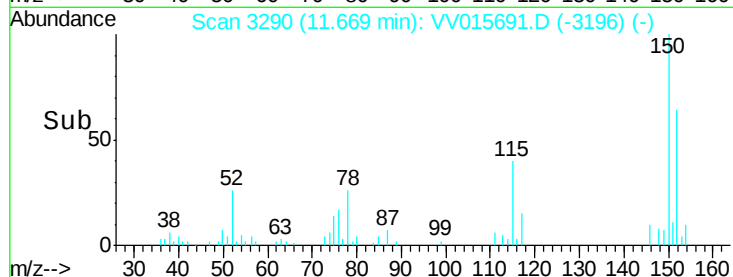
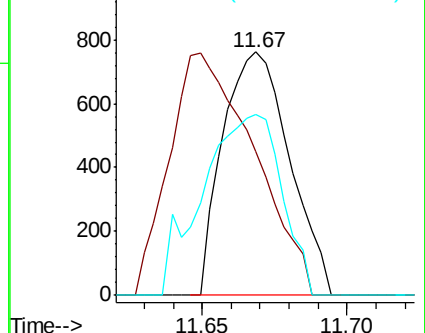
148 74.4 51.3 76.9



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



#67

1,3,5-Trichlorobenzene

Concen: 0.073 ug/L

RT: 12.67 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Tgt Ion:180 Resp: 1014

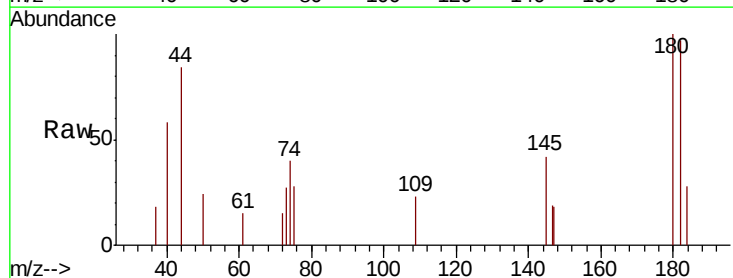
Ion Ratio Lower Upper

180 100

182 110.4 78.2 117.4

184 25.6 25.0 37.4

145 34.2 26.4 39.6

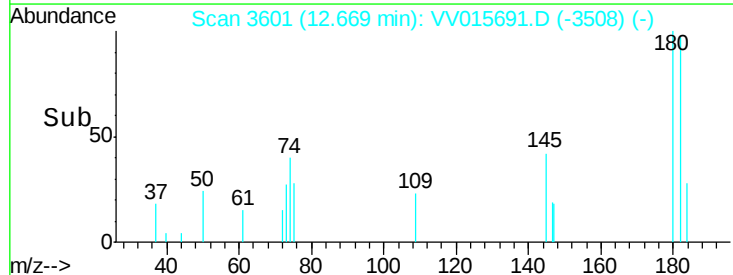
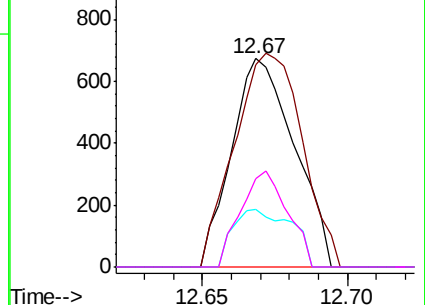


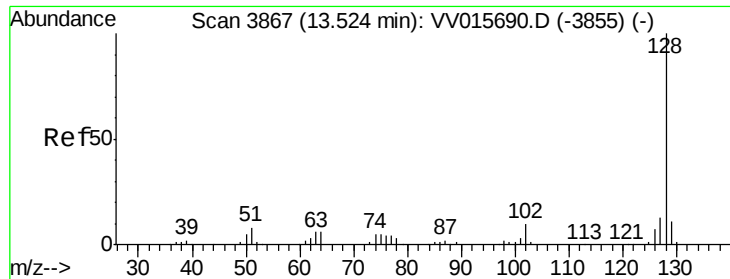
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 0.084 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

Instrument :

MSVOA_V

ClientSampled :

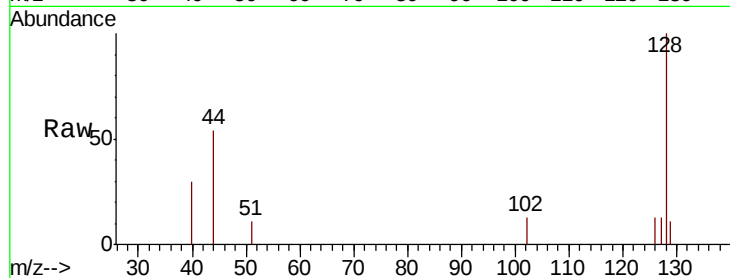
Tot Ion:128 Resp: 1909

Ion Ratio Lower Upper

128 100

129 5.2 8.4 12.6#

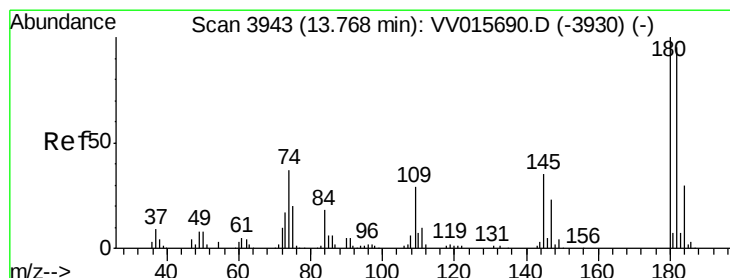
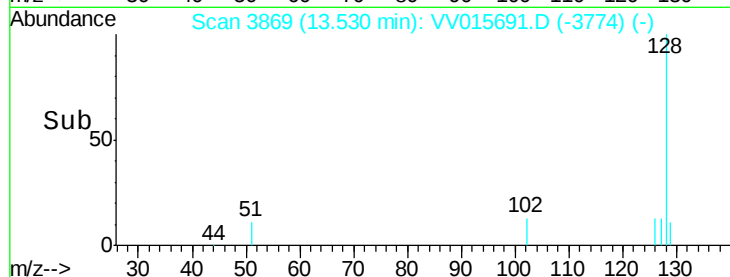
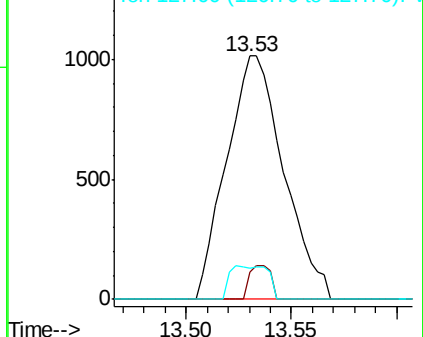
127 9.1 10.2 15.4#



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



#70

1,2,3-Trichlorobenzene

Concen: 0.090 ug/L

RT: 13.77 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VV015691.D

Acq: 25 Apr 2020 13:59

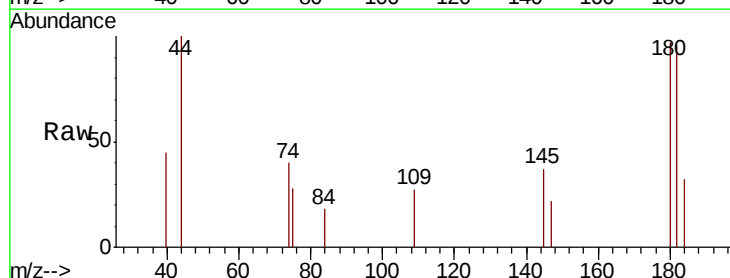
Tgt Ion:180 Resp: 1015

Ion Ratio Lower Upper

180 100

182 91.1 74.8 112.2

145 36.4 28.4 42.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

