

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV053020\
 Data File : VV016363.D
 Acq On : 30 May 2020 16:37
 Operator : SY/MD
 Sample : L2662-15
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 01 05:12:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR053020WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Jun 01 05:08:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	79505	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	77155	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	42962	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	34352	4.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.60%
7) Chloroethane-d5	1.58	69	22878	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.12	63	42757	3.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.20%
20) 2-Butanone-d5	3.98	46	19635	13.07	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	26.14%#
24) Chloroform-d	4.38	84	54336	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	5.06	65	29222	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.07	84	107381	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.10	67	32446	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.34	98	93375	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
45) trans-1,3-Dichloropropene-	7.65	79	10755	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
48) 2-Hexanone-d5	8.12	63	54912	48.33	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.66%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	22376	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	38006	4.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	504069	71.073	ug/L	98
8) Chloroethane	1.51	64	30122	7.049	ug/L #	53
12) 1,1-Dichloroethene	2.13	96	1744	0.341	ug/L #	1
14) Carbon disulfide	2.32	76	2909	0.187	ug/L #	94
17) Methyl tert-butyl Ether	2.79	73	736	0.061	ug/L #	72
18) trans-1,2-Dichloroethene	2.78	96	24411	4.495	ug/L	97
19) 1,1-Dichloroethane	3.20	63	1687	0.157	ug/L	88
22) cis-1,2-Dichloroethene	3.93	96	448221	74.769	ug/L	97
27) 1,2-Dichloroethane	5.16	62	13822	1.952	ug/L	97
33) Benzene	5.12	78	213659	9.351	ug/L	100
34) Trichloroethene	5.94	95	1556	0.260	ug/L	92
35) Methylcyclohexane	6.09	83	7750	0.803	ug/L #	16
37) 1,2-Dichloropropane	6.20	63	462	0.080	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	869	0.114	ug/L #	79
42) Toluene	7.41	91	269526	11.100	ug/L	100
43) 1,3,5-Trimethylbenzene	10.56	105	129191	5.998	ug/L	100
44) 1,2,4-Trimethylbenzene	10.94	105	390747	17.806	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

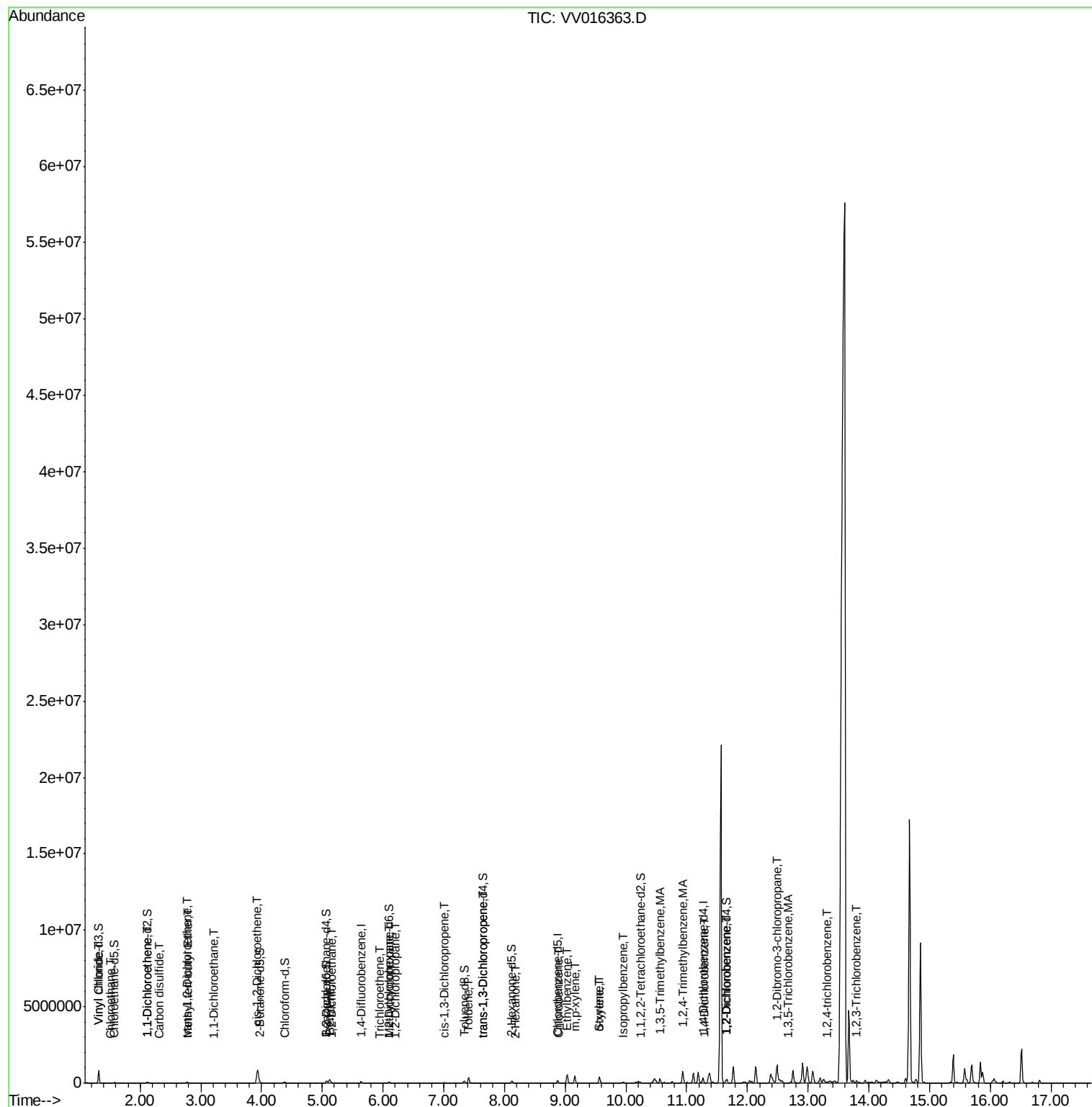
46) trans-1,3-Dichloropropene	7.65	75	614	0.097	ug/L #	61
50) 2-Hexanone	8.18	43	1826	0.750	ug/L #	88
53) Chlorobenzene	8.90	112	9206	0.604	ug/L	97
54) Ethylbenzene	9.03	91	362429	13.532	ug/L	100
55) m,p-xylene	9.16	106	120665	12.037	ug/L	100
56) o-xylene	9.56	106	107443	11.380	ug/L	100
57) Styrene	9.56	104	6867	0.426	ug/L #	1
58) Isopropylbenzene	9.95	105	41196	1.601	ug/L	99
64) 1,4-Dichlorobenzene	11.30	146	755	0.055	ug/L	84
66) 1,2-Dichlorobenzene	11.67	146	1898	0.154	ug/L	91
67) 1,2-Dibromo-3-chloropropan	12.49	75	26114	32.525	ug/L #	9
68) 1,3,5-Trichlorobenzene	12.67	180	639	0.067	ug/L #	87
69) 1,2,4-trichlorobenzene	13.30	180	979	0.120	ug/L #	12
71) 1,2,3-Trichlorobenzene	13.78	180	800	0.110	ug/L #	1

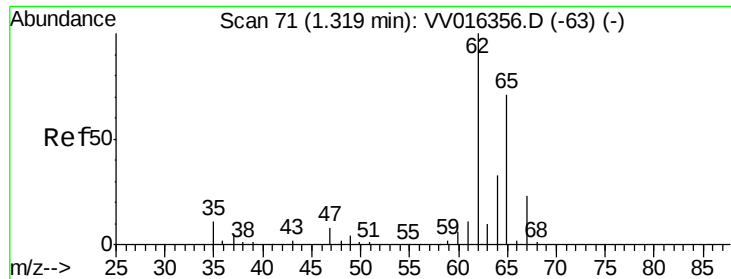
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 71.073 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

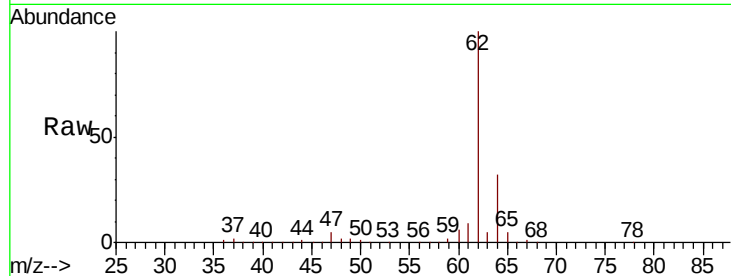
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 504069

Ion Ratio Lower Upper

62 100

64 31.7 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

500000

400000

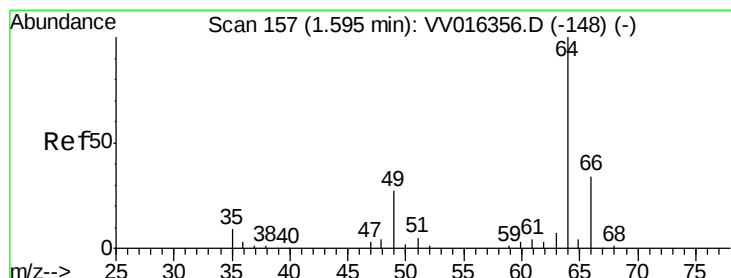
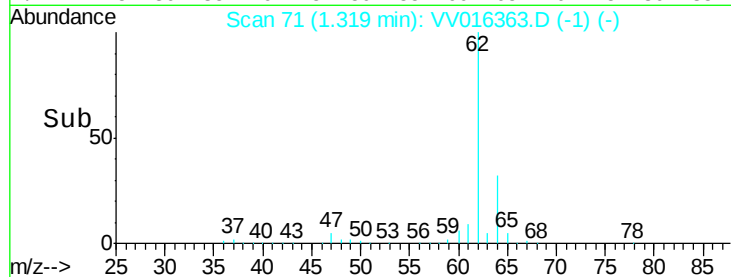
300000

200000

100000

0

Time-->



#8

Chloroethane

Concen: 7.049 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.08 min

Lab File: VV016363.D

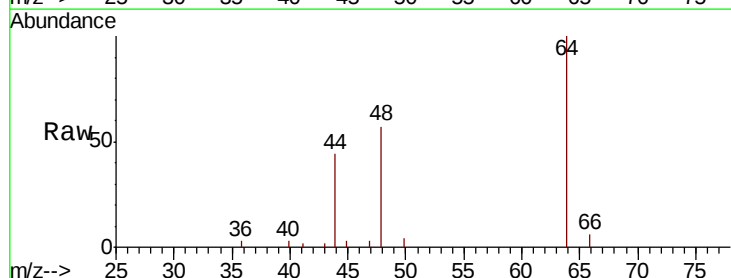
Acq: 30 May 2020 16:37

Tgt Ion: 64 Resp: 30122

Ion Ratio Lower Upper

64 100

66 6.5 23.4 43.6#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

20000

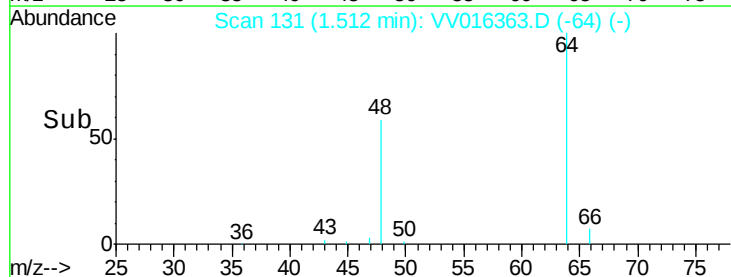
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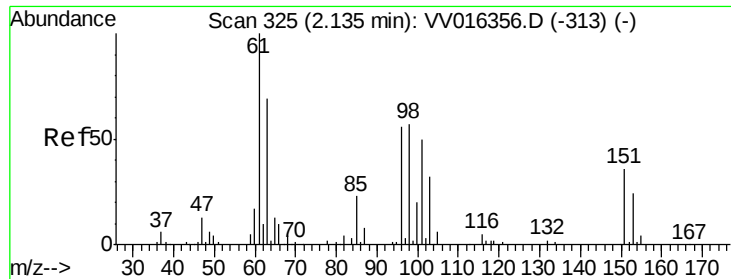
10000

5000

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.341 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

Instrument :

MSVOA_V

ClientSampleId :

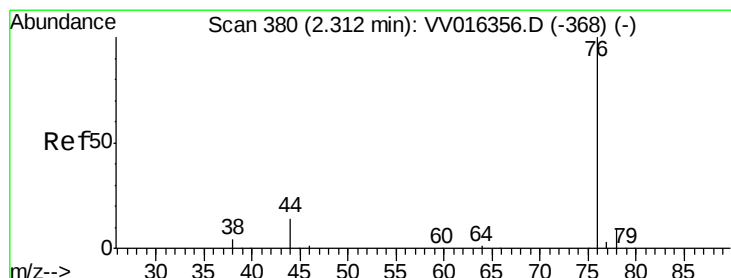
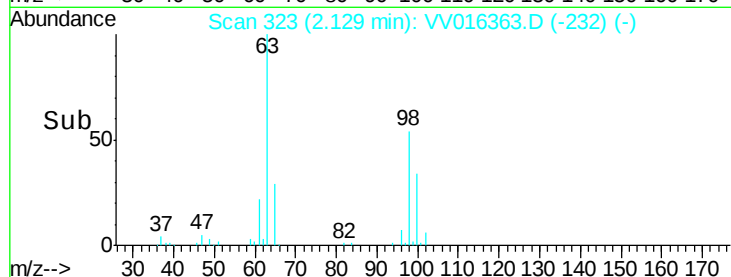
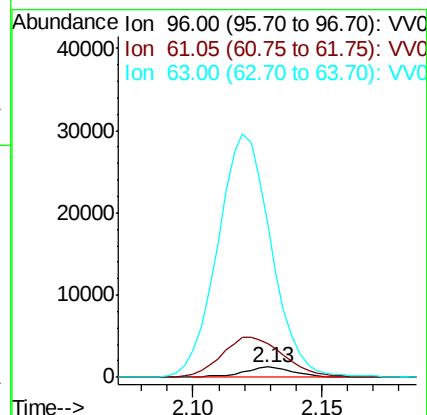
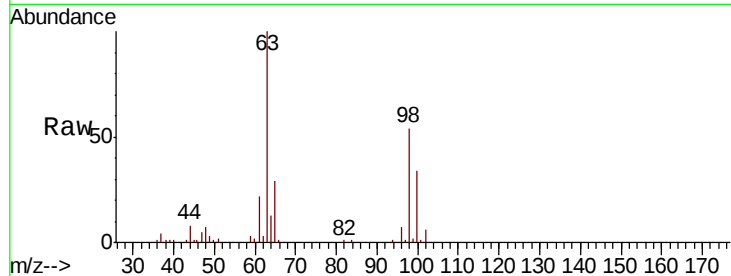
Tot Ion: 96 Resp: 1744

Ion Ratio Lower Upper

96 100

61 330.7 125.4 233.0#

63 1486.3 88.2 163.8#



#14

Carbon disulfide

Concen: 0.187 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV016363.D

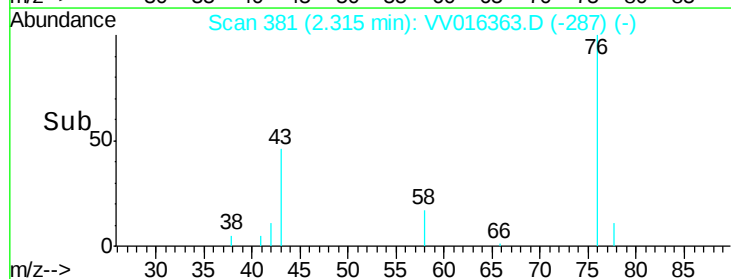
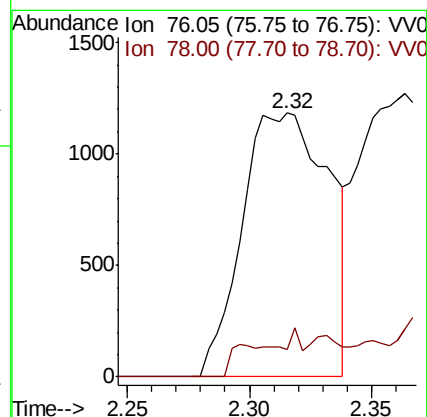
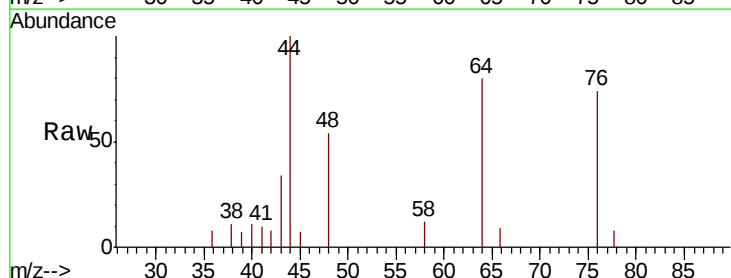
Acq: 30 May 2020 16:37

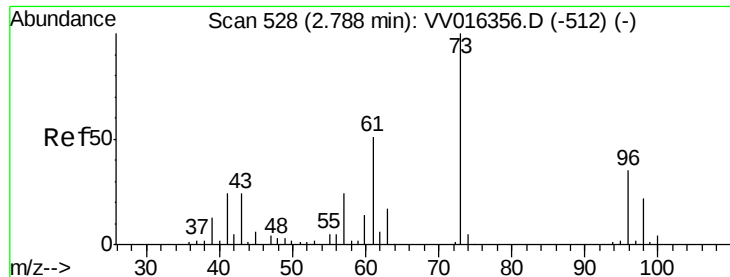
Tgt Ion: 76 Resp: 2909

Ion Ratio Lower Upper

76 100

78 10.6 6.8 10.2#

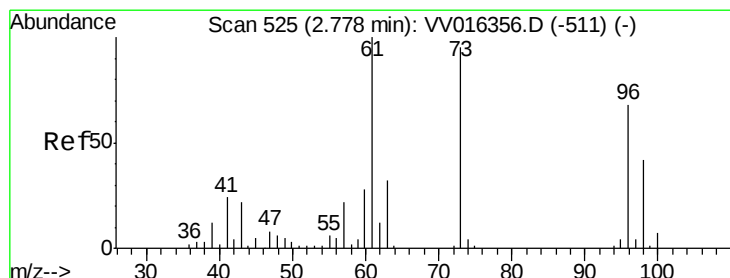
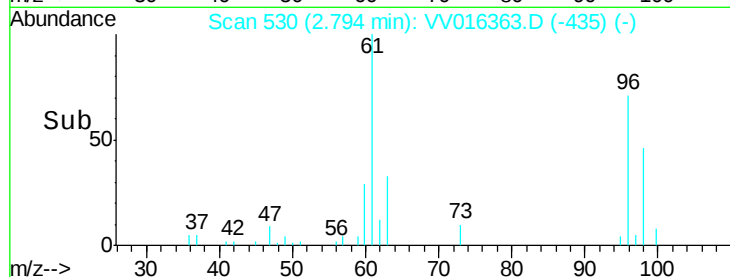
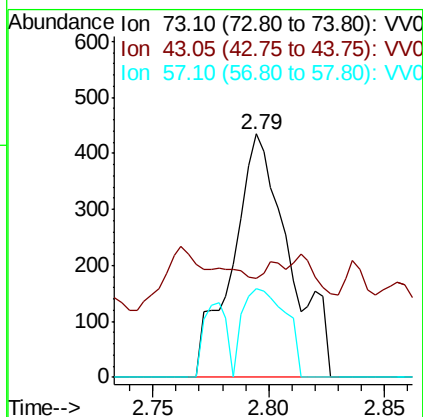
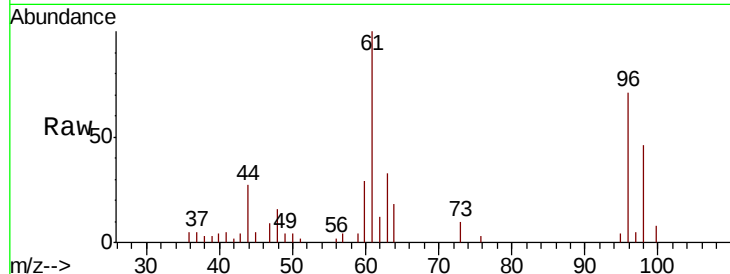




#17
Methvl tert-butvl Ether
Concen: 0.061 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV016363.D
Acq: 30 May 2020 16:37

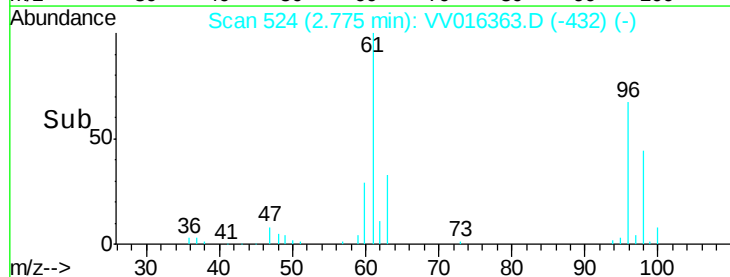
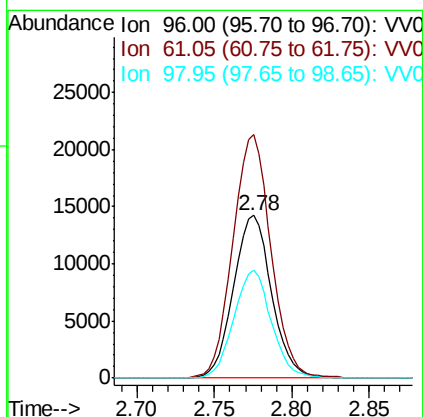
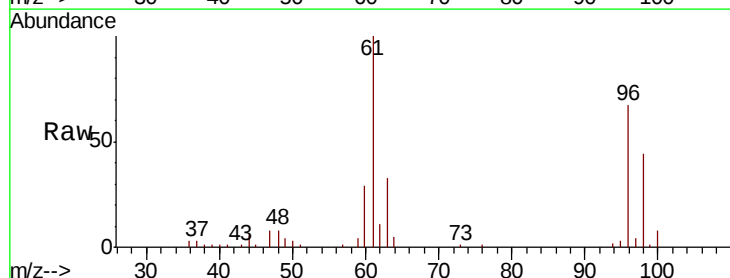
Instrument :
MSVOA_V
ClientSampled :

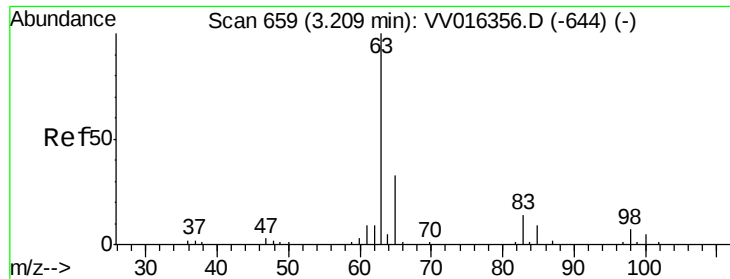
Tot Ion: 73 Resp: 736
Ion Ratio Lower Upper
73 100
43 2.0 19.4 29.0#
57 27.9 18.4 27.6#



#18
trans-1,2-Dichloroethene
Concen: 4.495 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV016363.D
Acq: 30 May 2020 16:37

Tgt Ion: 96 Resp: 24411
Ion Ratio Lower Upper
96 100
61 149.5 103.1 191.5
98 66.1 43.0 79.8

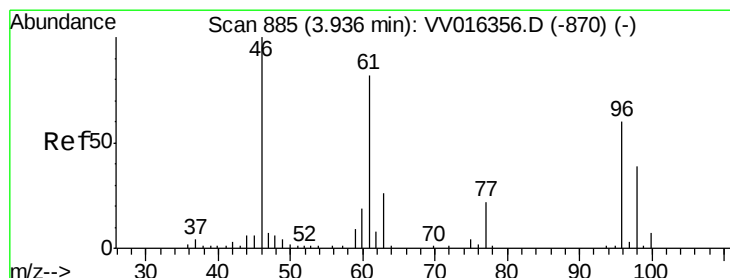
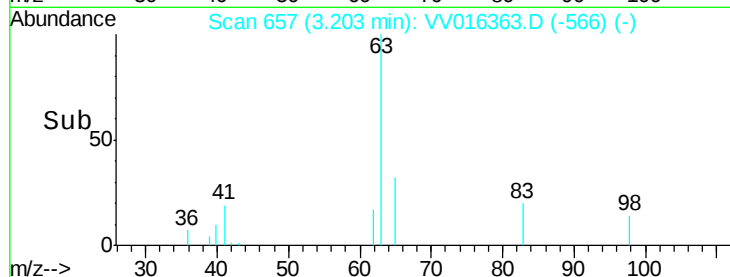
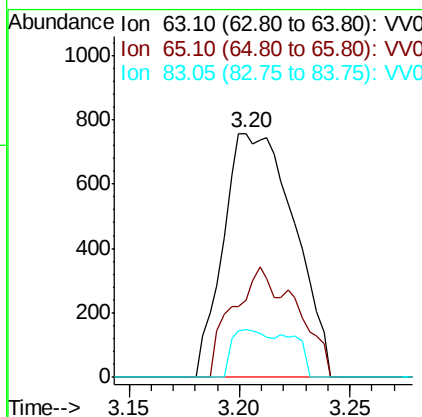
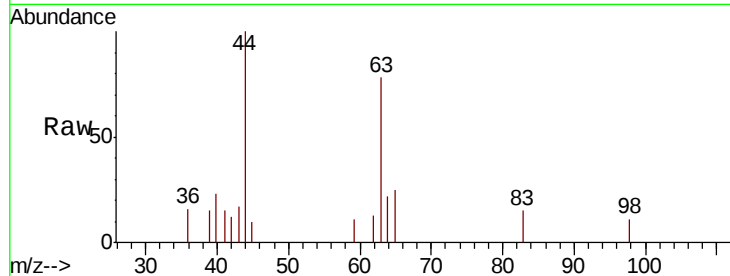




#19
 1,1-Dichloroethane
 Concen: 0.157 ug/L
 RT: 3.20 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

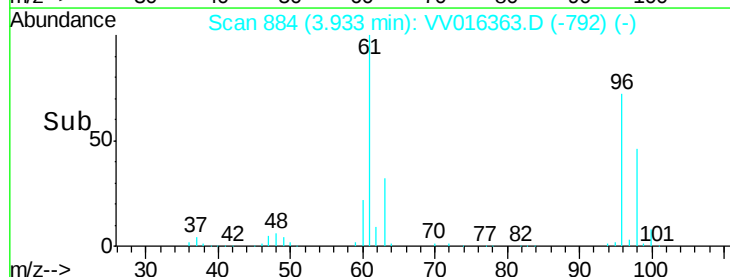
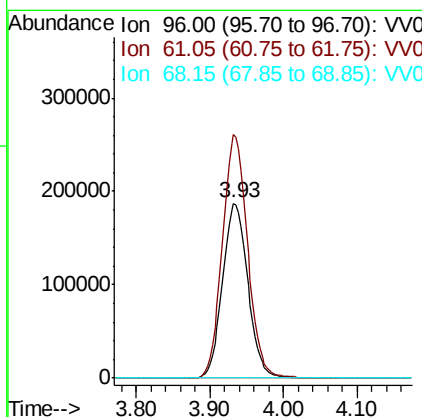
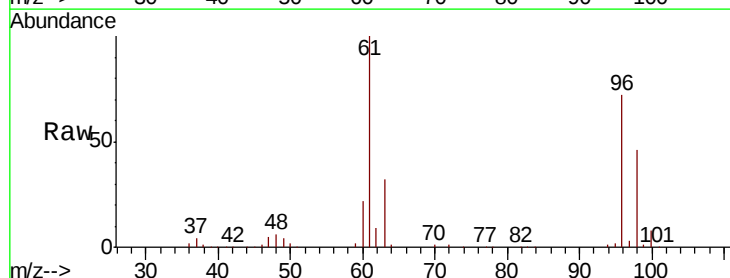
Instrument :
 MSVOA_V
 ClientSampleId :

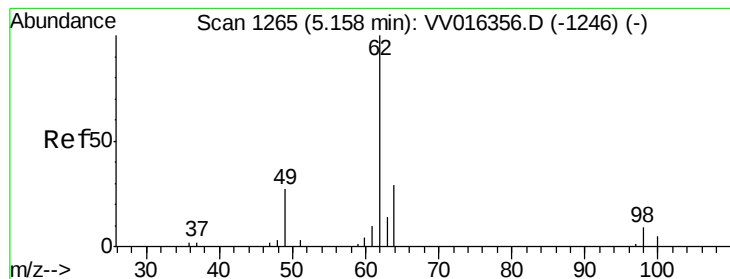
Tot Ion: 63 Resp: 1687
 Ion Ratio Lower Upper
 63 100
 65 24.7 23.3 43.3
 83 15.3 9.9 18.3



#22
 cis-1,2-Dichloroethene
 Concen: 74.769 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.00 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

Tgt Ion: 96 Resp: 448221
 Ion Ratio Lower Upper
 96 100
 61 139.3 94.8 176.0
 68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 1.952 ug/L

RT: 5.16 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

Instrument :

MSVOA_V

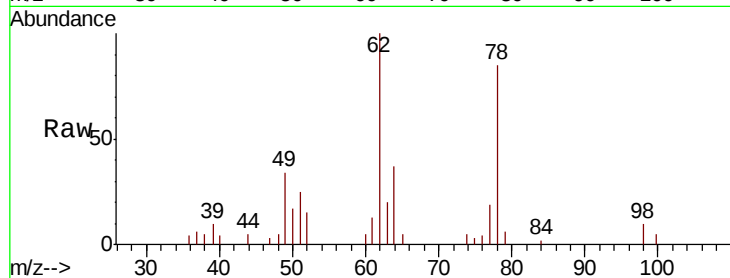
ClientSampleId :

Tot Ion: 62 Resp: 13822

Ion Ratio Lower Upper

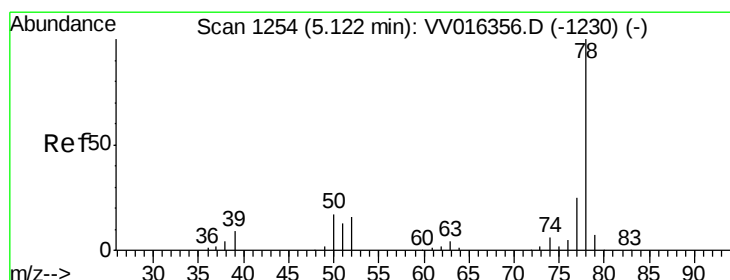
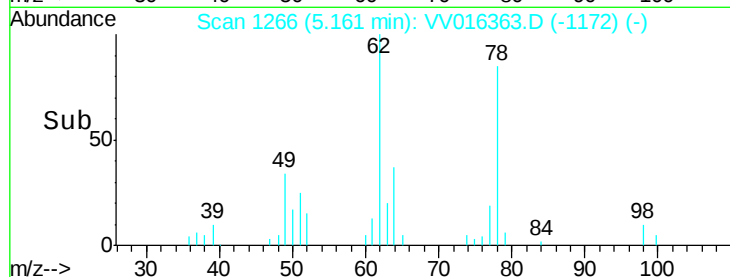
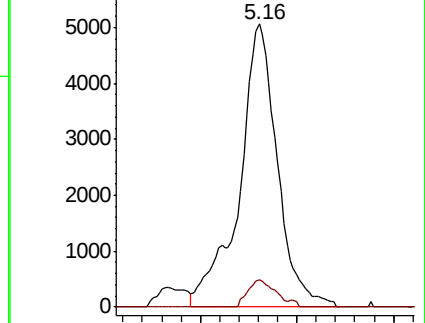
62 100

98 9.7 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0



#33

Benzene

Concen: 9.351 ug/L

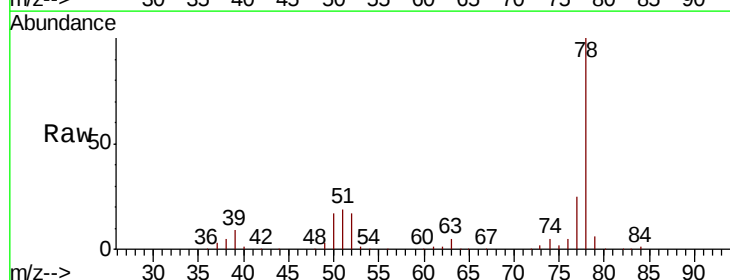
RT: 5.12 min Scan# 1253

Delta R.T. -0.00 min

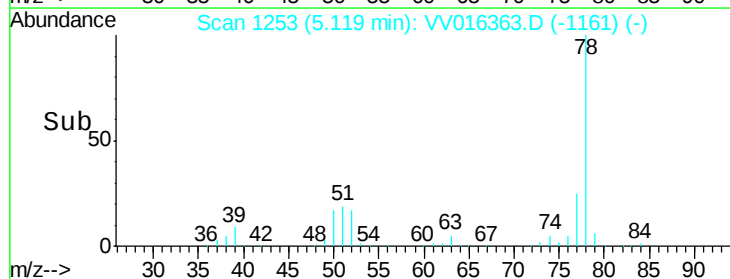
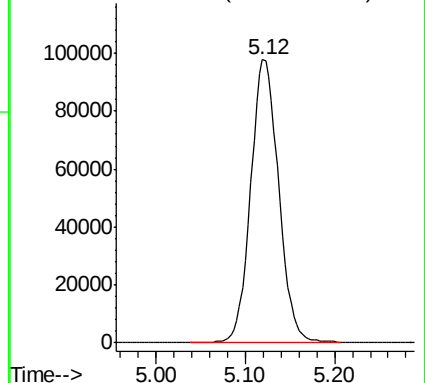
Lab File: VV016363.D

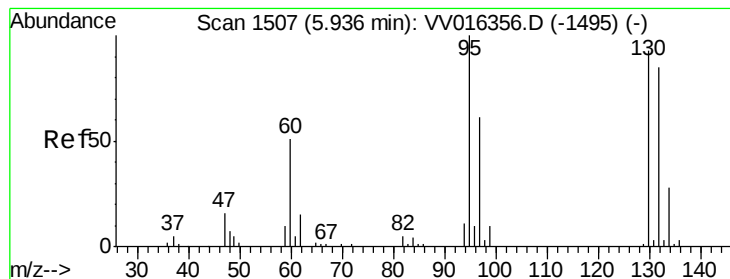
Acq: 30 May 2020 16:37

Tgt Ion: 78 Resp: 213659



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.260 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 1556

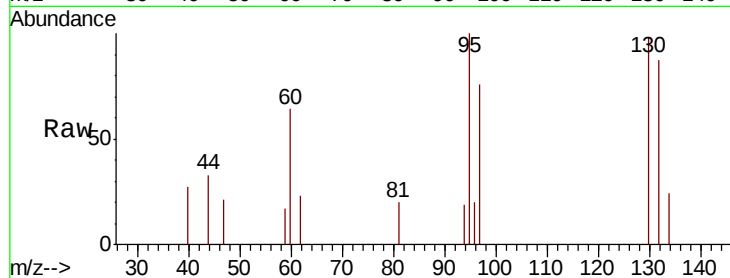
Ion Ratio Lower Upper

95 100

97 76.4 42.6 79.0

132 87.2 59.6 110.8

130 98.2 64.8 120.4

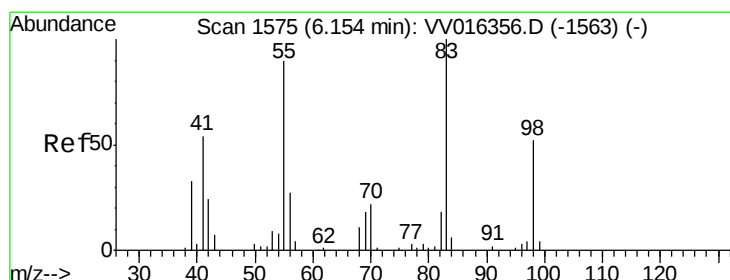
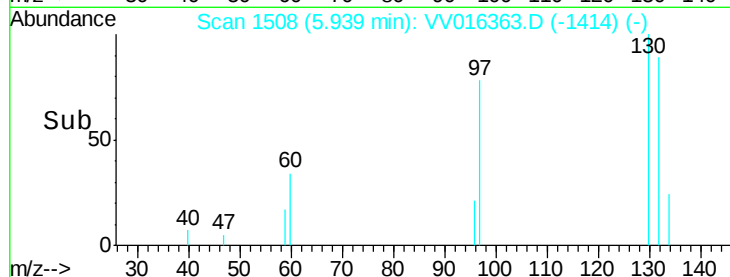
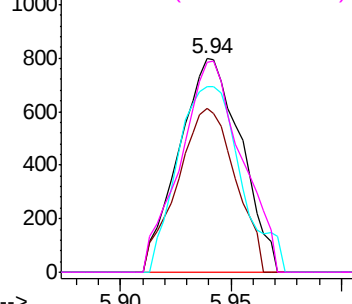


Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Methylcyclohexane

Concen: 0.803 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

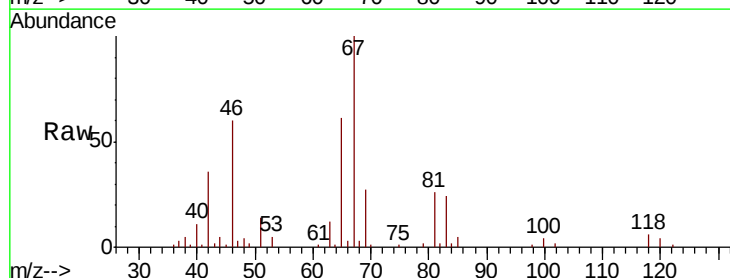
Tgt Ion: 83 Resp: 7750

Ion Ratio Lower Upper

83 100

55 0.9 67.0 100.4#

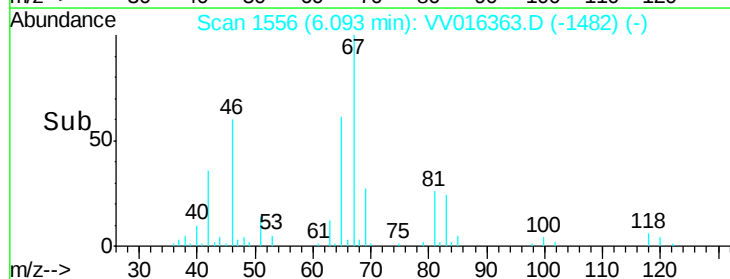
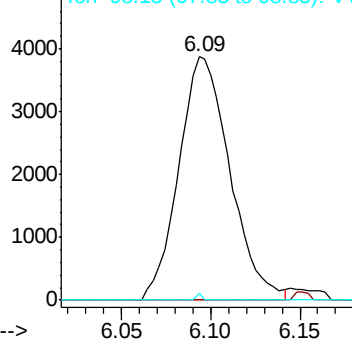
98 0.2 39.0 58.4#

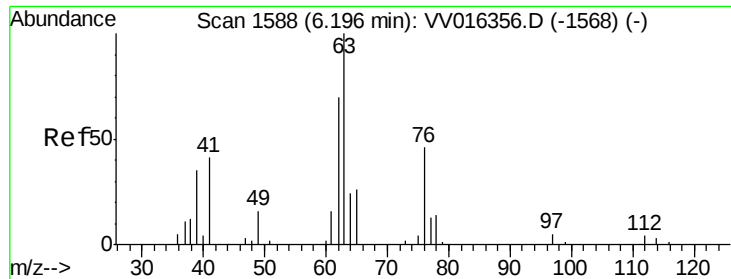


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

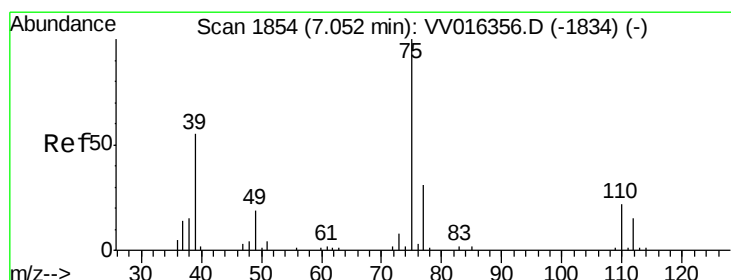
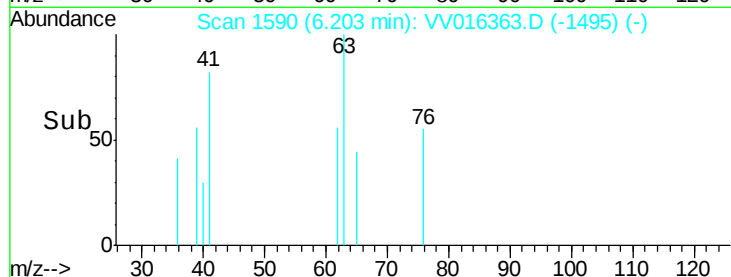
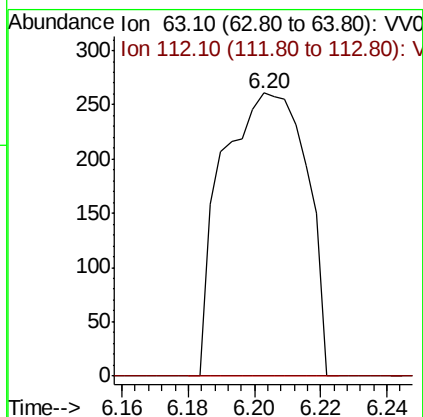
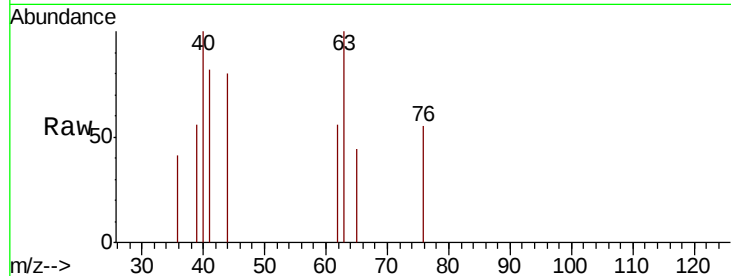




#37
 1,2-Dichloropropane
 Concen: 0.080 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

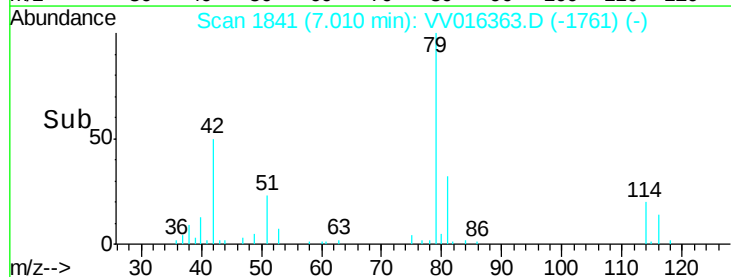
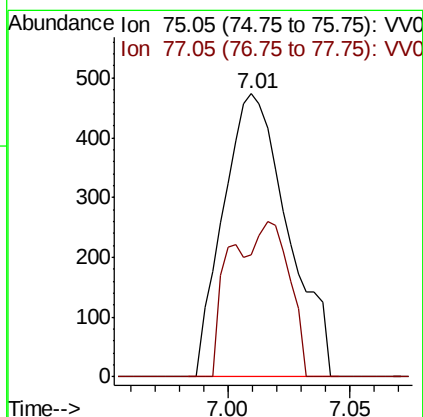
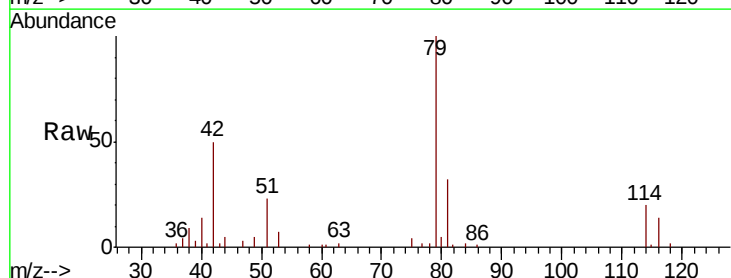
Instrument :
 MSVOA_V
 ClientSampleId :

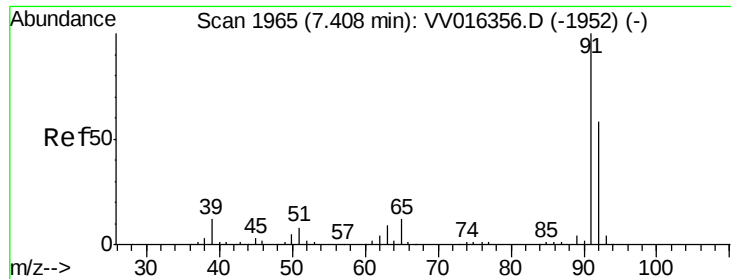
Tot Ion: 63 Resp: 462
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.114 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

Tgt Ion: 75 Resp: 869
 Ion Ratio Lower Upper
 75 100
 77 43.3 22.0 41.0#





#42

Toluene

Concen: 11.100 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

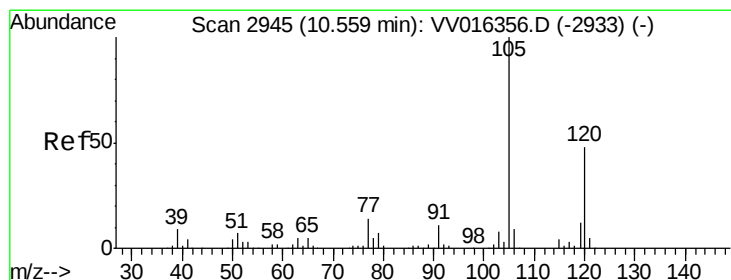
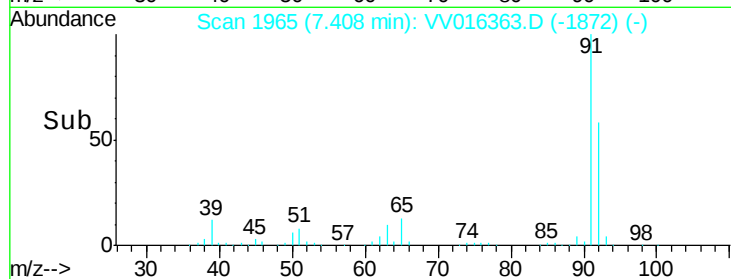
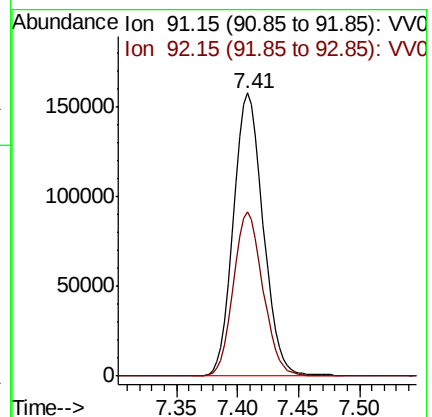
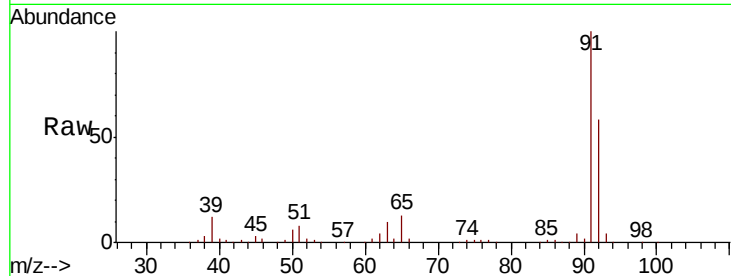
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 269526

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.1



#43

1,3,5-Trimethylbenzene

Concen: 5.998 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV016363.D

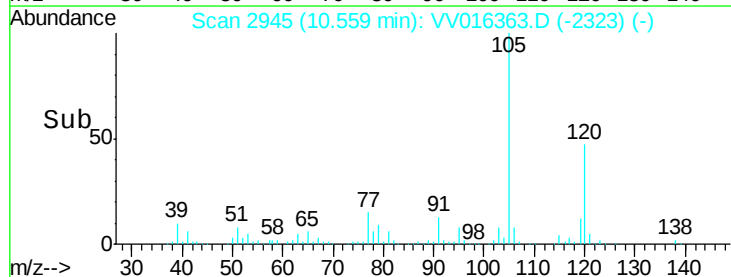
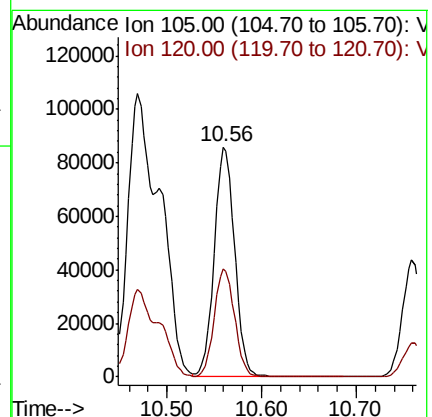
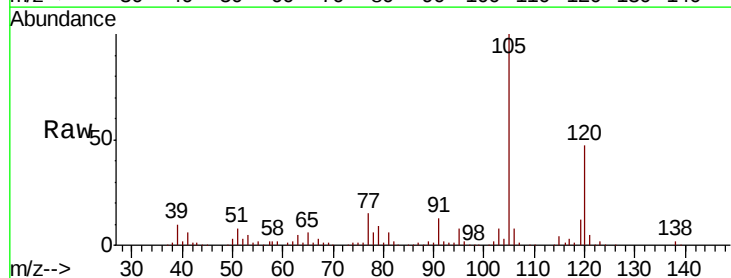
Acq: 30 May 2020 16:37

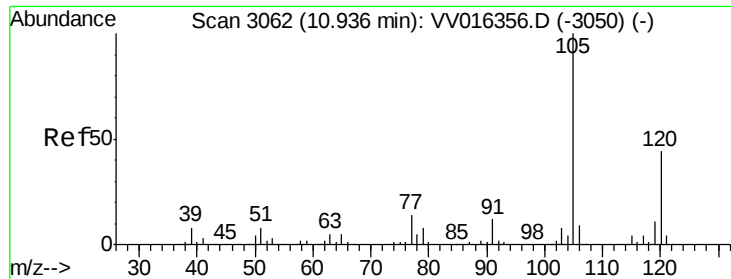
Tgt Ion:105 Resp: 129191

Ion Ratio Lower Upper

105 100

120 46.7 37.5 56.3

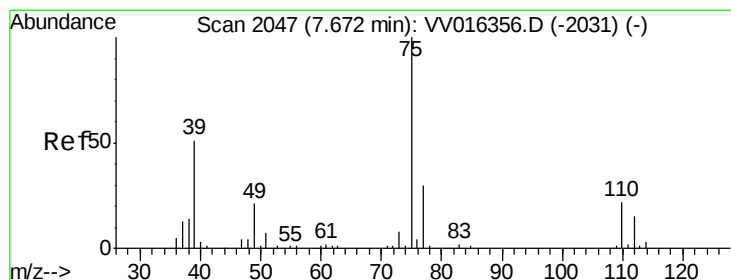
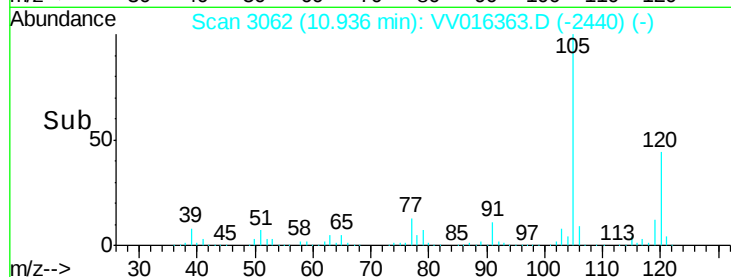
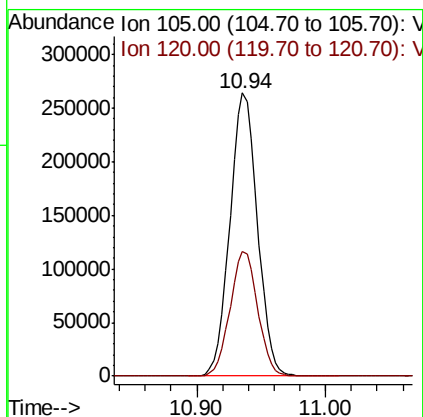
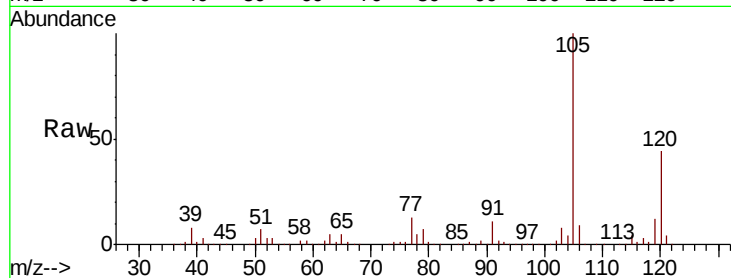




#44
 1,2,4-Trimethylbenzene
 Concen: 17.806 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

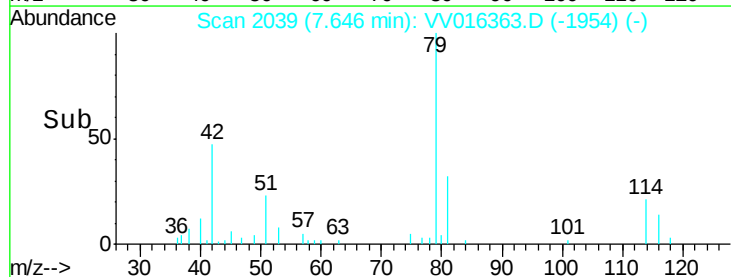
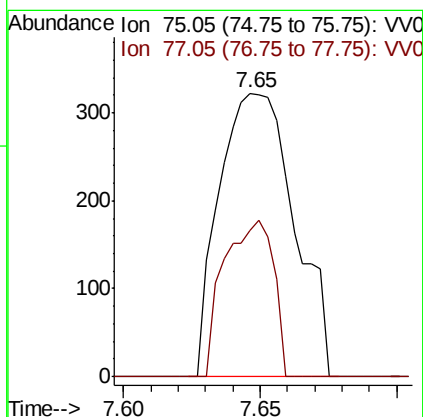
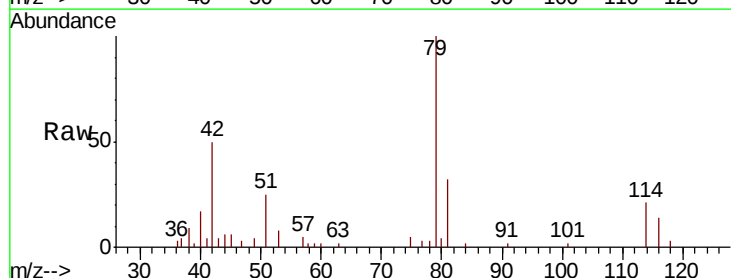
Instrument :
 MSVOA_V
 ClientSampleId :

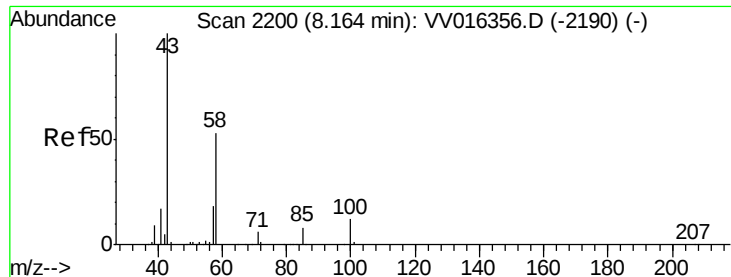
Tot Ion:105 Resp: 390747
 Ion Ratio Lower Upper
 105 100
 120 44.2 35.5 53.3



#46
 trans-1,3-Dichloropropene
 Concen: 0.097 ug/L
 RT: 7.65 min Scan# 2039
 Delta R.T. -0.03 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

Tgt Ion: 75 Resp: 614
 Ion Ratio Lower Upper
 75 100
 77 51.6 21.1 39.3#

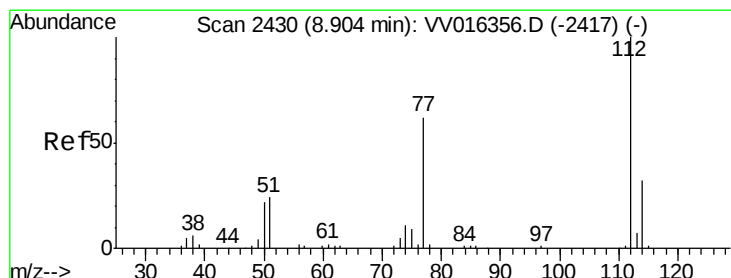
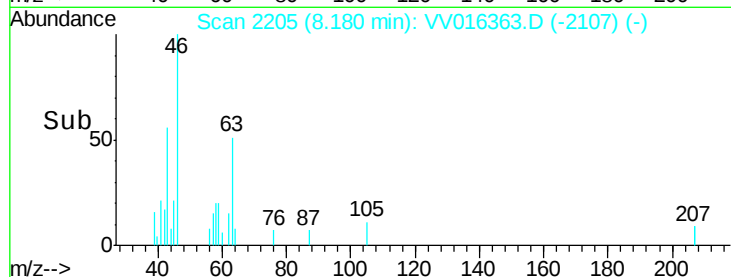
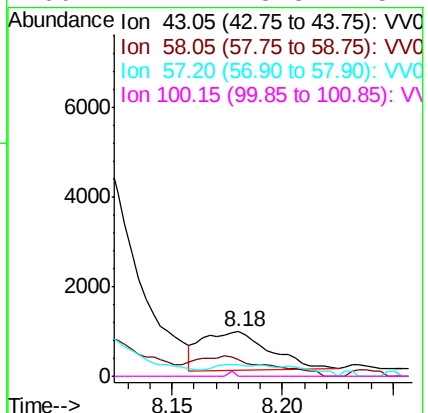
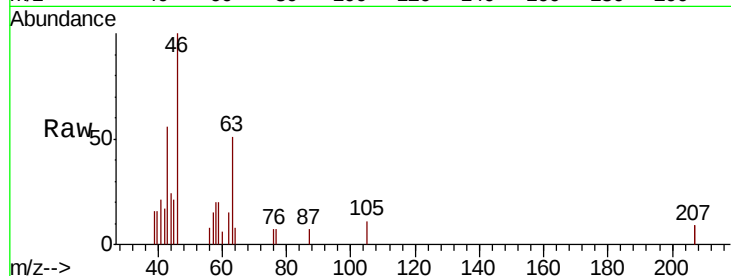




#50
2-Hexanone
Concen: 0.750 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.02 min
Lab File: VV016363.D
Acq: 30 May 2020 16:37

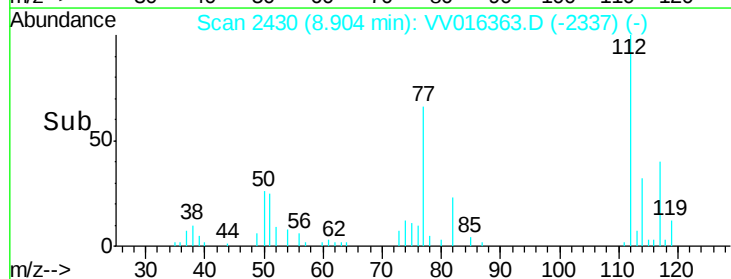
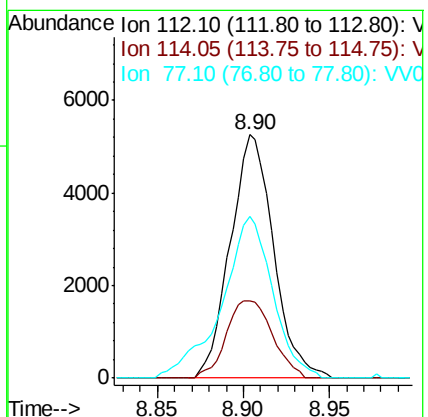
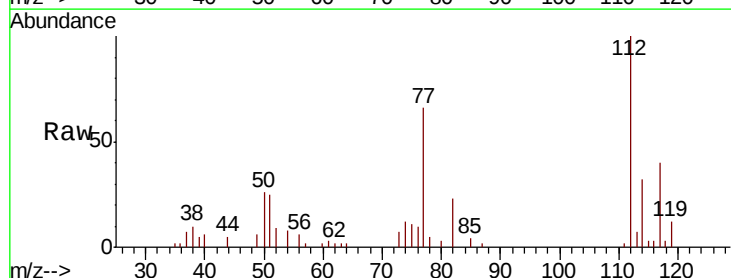
Instrument :
MSVOA_V
ClientSampleId :

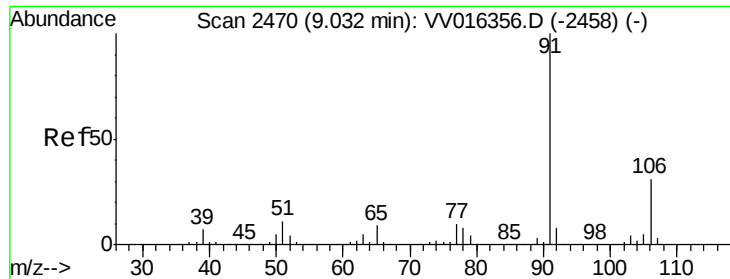
Tot Ion: 43 Resp: 1826
Ion Ratio Lower Upper
43 100
58 56.1 41.1 61.7
57 9.7 14.2 21.4#
100 1.2 8.8 13.2#



#53
Chlorobenzene
Concen: 0.604 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016363.D
Acq: 30 May 2020 16:37

Tgt Ion: 112 Resp: 9206
Ion Ratio Lower Upper
112 100
114 31.7 22.6 42.0
77 66.2 50.5 75.7





#54

Ethylbenzene

Concen: 13.532 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

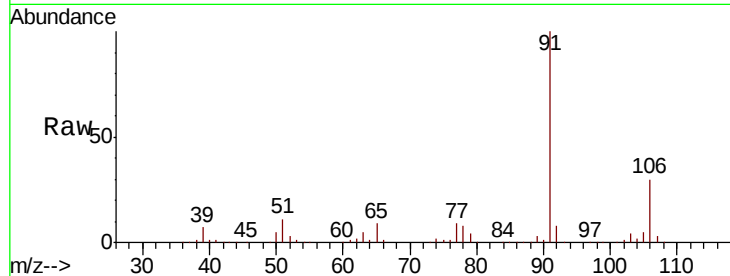
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 362429

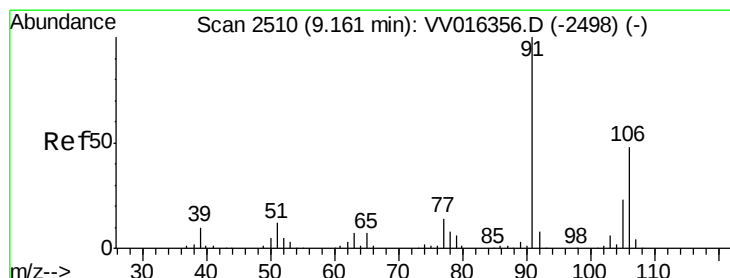
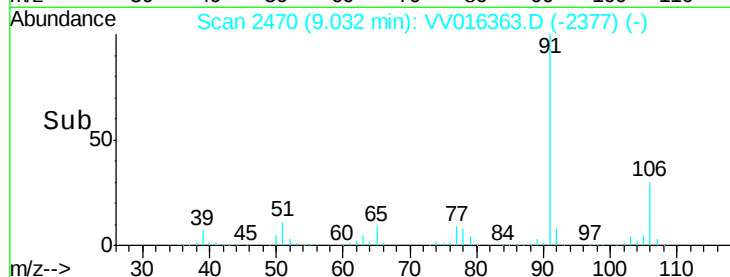
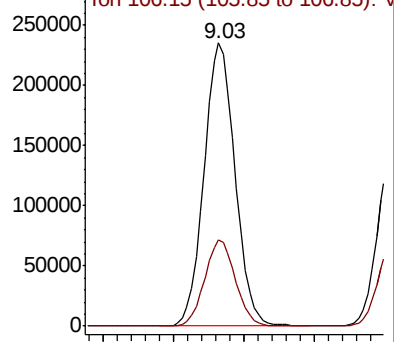
Ion Ratio Lower Upper

91 100

106 30.3 21.4 39.8



Abundance Ion 91.15 (90.85 to 91.85): VV016363.D (-2377) (-)



#55

m,p-xylene

Concen: 12.037 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016363.D

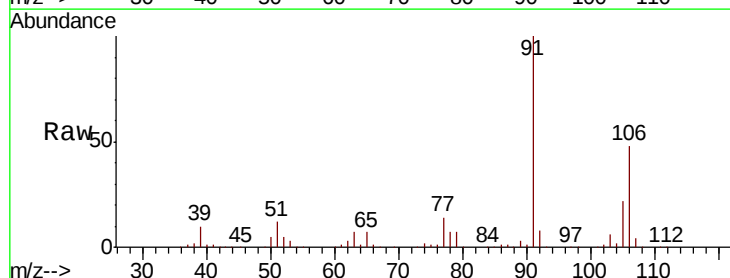
Acq: 30 May 2020 16:37

Tgt Ion: 106 Resp: 120665

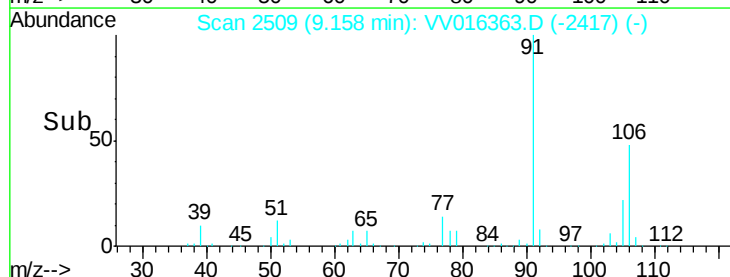
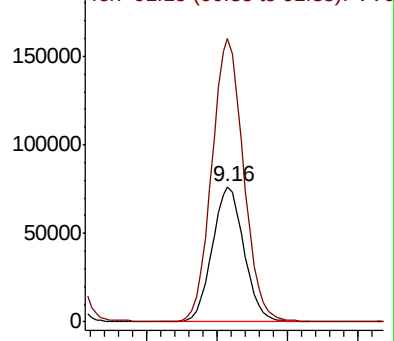
Ion Ratio Lower Upper

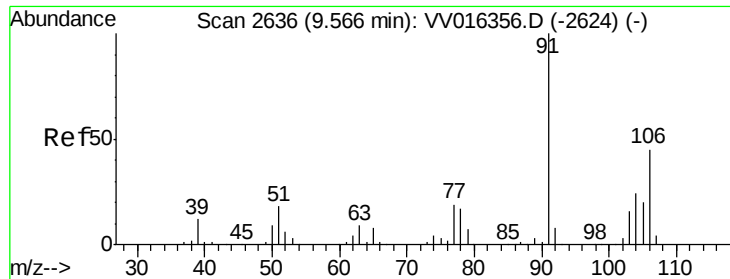
106 100

91 209.4 146.6 272.2



Abundance Ion 106.15 (105.85 to 106.85): VV016363.D (-2417) (-)

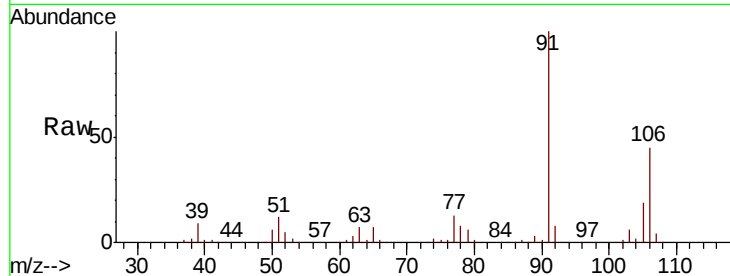




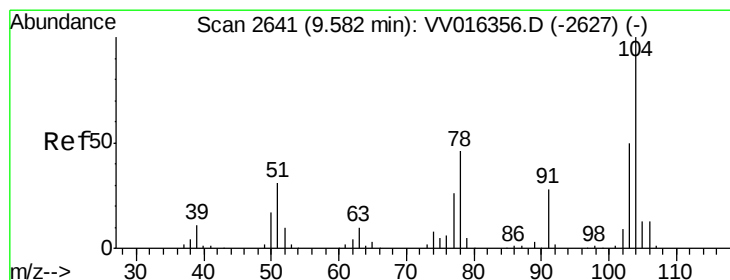
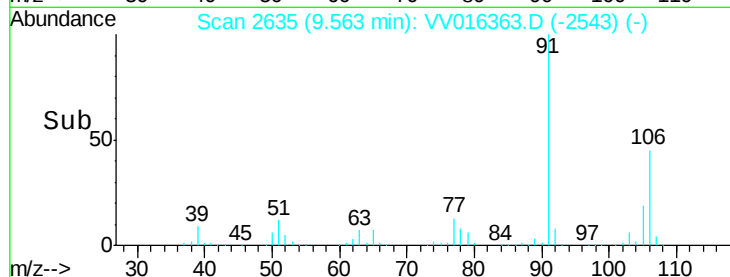
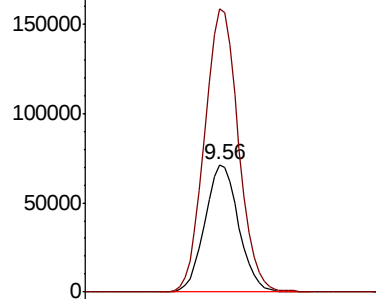
#56
o-xylene
Concen: 11.380 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV016363.D
Acq: 30 May 2020 16:37

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 107443
Ion Ratio Lower Upper
106 100
91 221.4 155.2 288.2

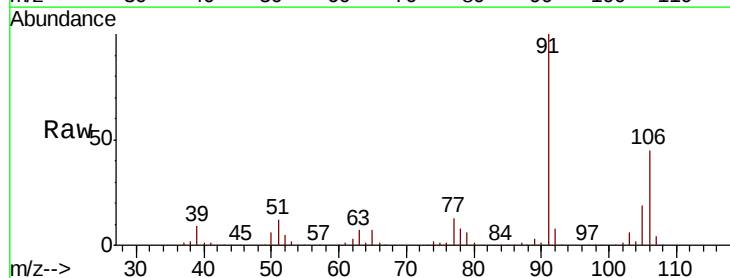


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

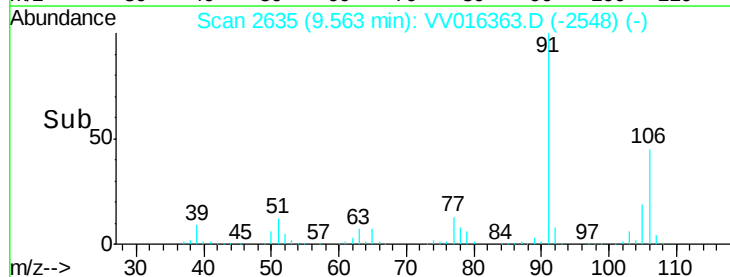
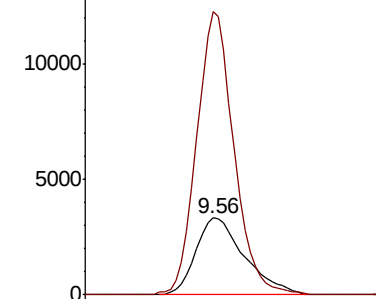


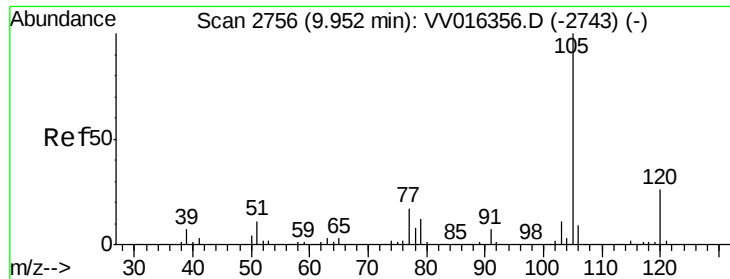
#57
Styrene
Concen: 0.426 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VV016363.D
Acq: 30 May 2020 16:37

Tgt Ion:104 Resp: 6867
Ion Ratio Lower Upper
104 100
78 366.8 32.6 60.6#



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 1.601 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

Instrument :

MSVOA_V

ClientSampleId :

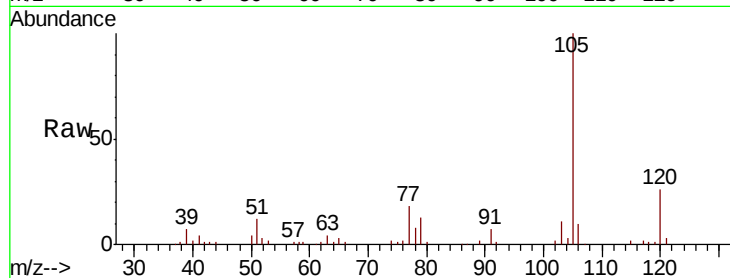
Tot Ion:105 Resp: 41196

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

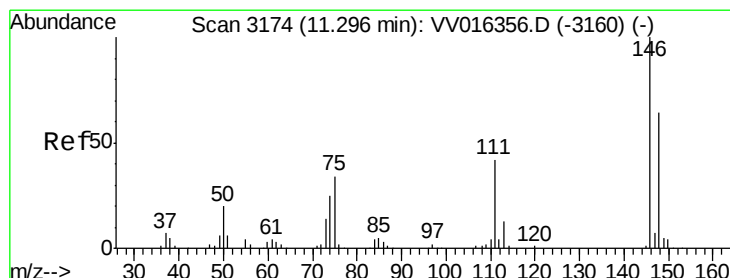
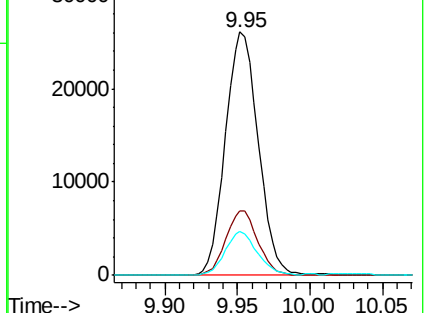
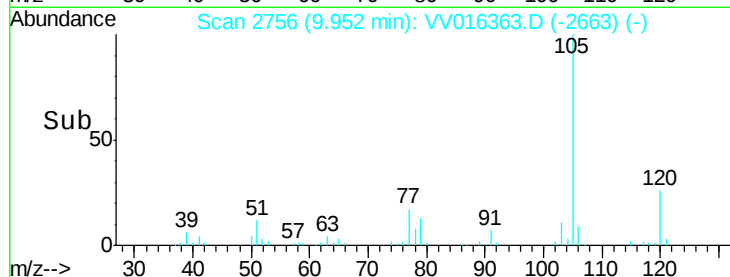
77 17.6 13.4 20.2



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



#64

1,4-Dichlorobenzene

Concen: 0.055 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

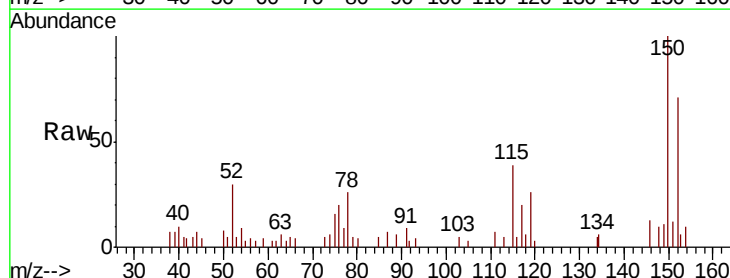
Tgt Ion:146 Resp: 755

Ion Ratio Lower Upper

146 100

111 54.0 29.6 55.0

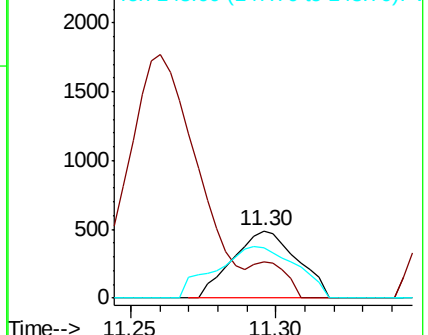
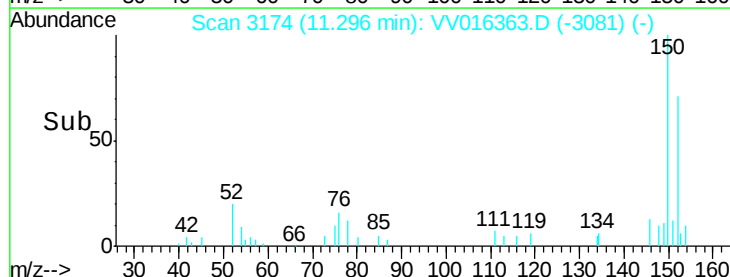
148 75.3 44.7 83.1

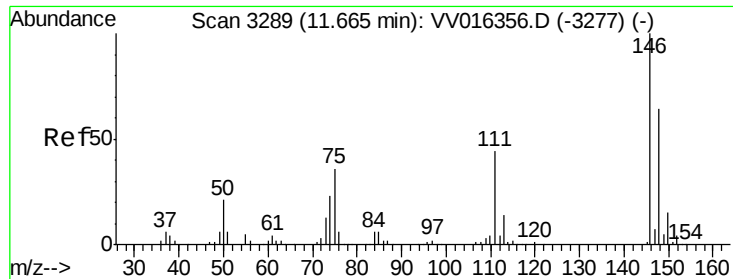


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dichlorobenzene

Concen: 0.154 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

Instrument :

MSVOA_V

ClientSampled :

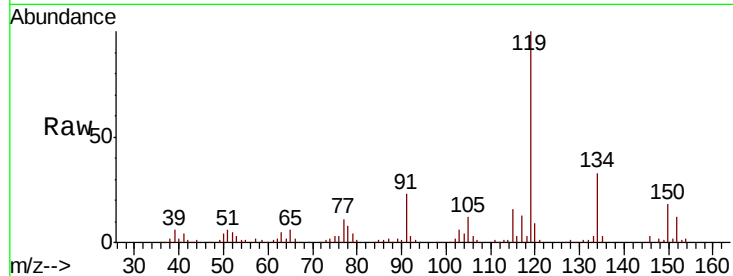
Tot Ion:146 Resp: 1898

Ion Ratio Lower Upper

146 100

111 52.0 35.4 53.2

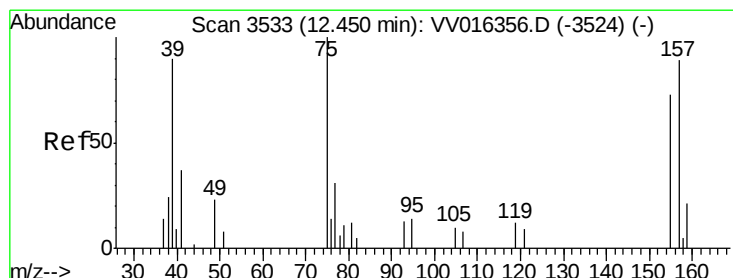
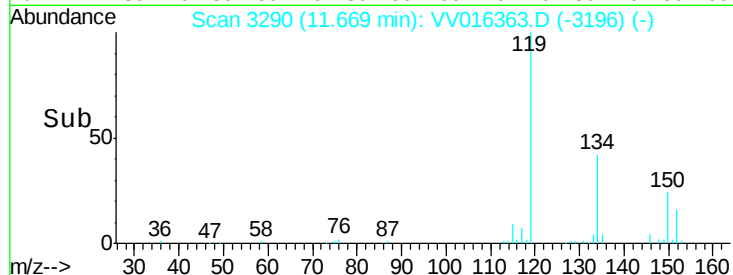
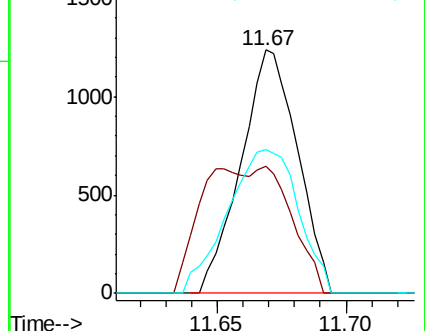
148 58.9 51.0 76.4



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

1,2-Dibromo-3-chloropropane

Concen: 32.525 ug/L

RT: 12.49 min Scan# 3545

Delta R.T. 0.04 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

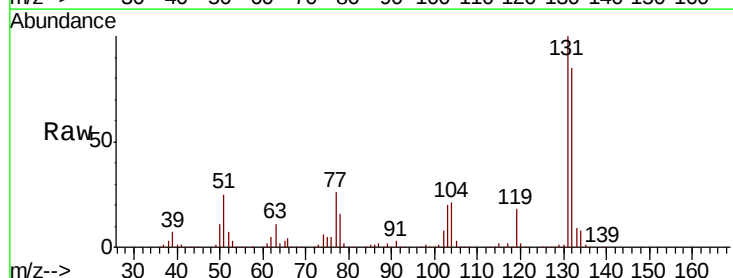
Tgt Ion: 75 Resp: 26114

Ion Ratio Lower Upper

75 100

155 0.0 58.1 87.1#

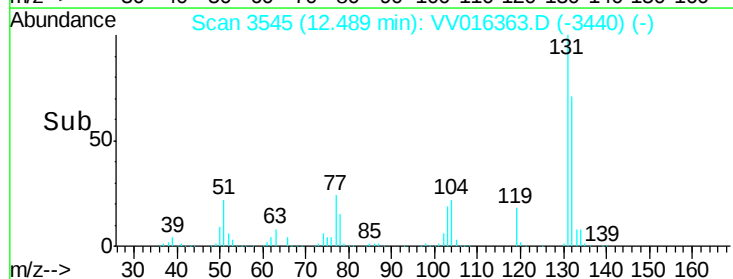
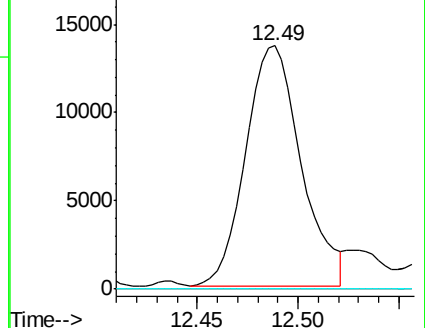
157 0.0 71.0 106.4#

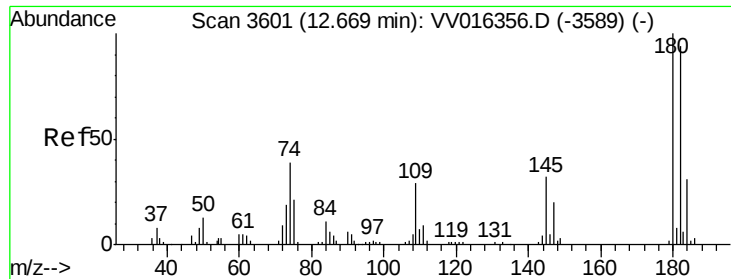


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

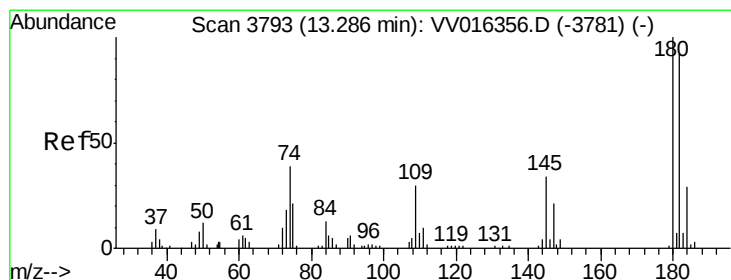
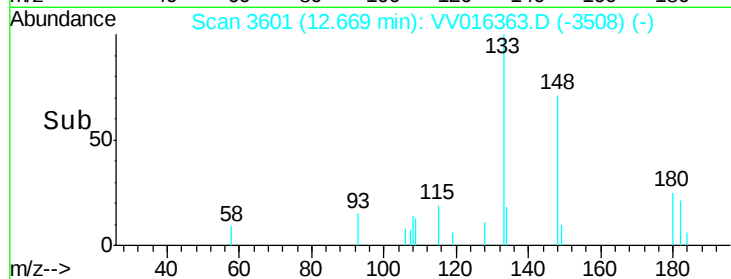
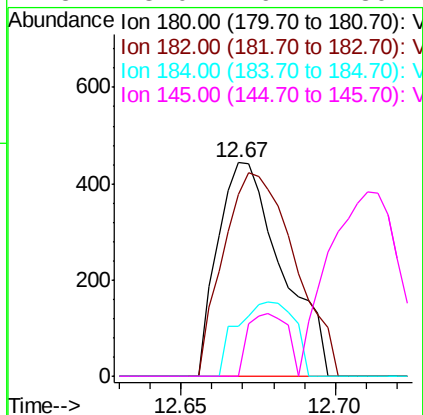
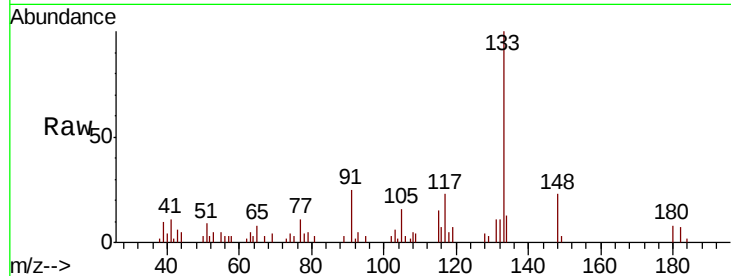




#68
 1,3,5-Trichlorobenzene
 Concen: 0.067 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

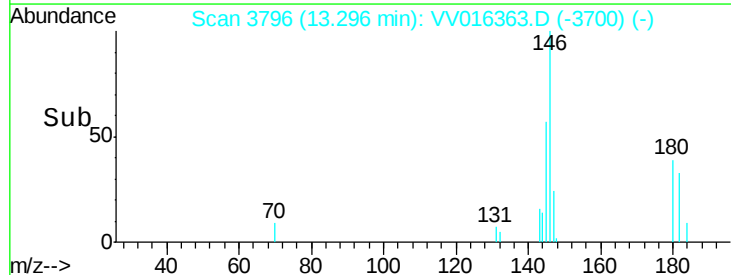
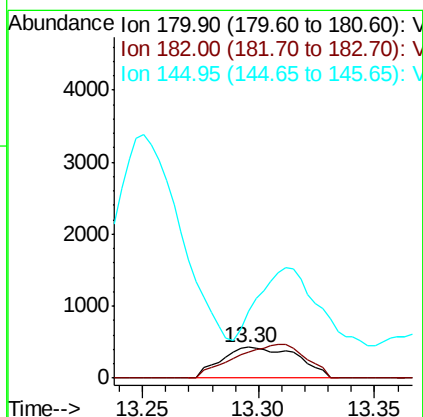
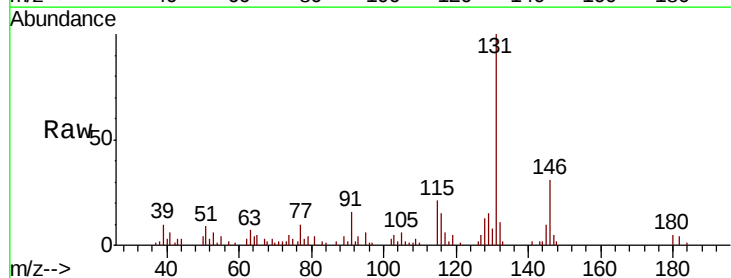
Instrument :
 MSVOA_V
 ClientSampleId :

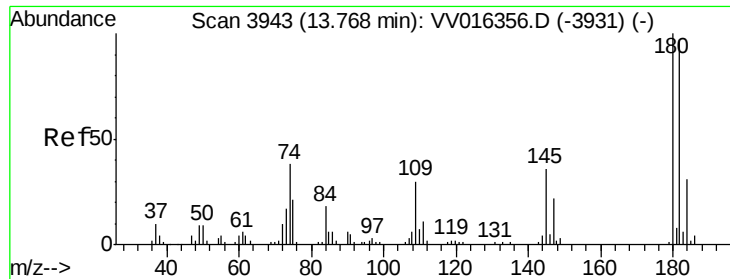
Tot Ion:180 Resp: 639
 Ion Ratio Lower Upper
 180 100
 182 106.1 75.5 113.3
 184 31.1 24.2 36.2
 145 18.0 26.2 39.2#



#69
 1,2,4-trichlorobenzene
 Concen: 0.120 ug/L
 RT: 13.30 min Scan# 3796
 Delta R.T. 0.01 min
 Lab File: VV016363.D
 Acq: 30 May 2020 16:37

Tgt Ion:180 Resp: 979
 Ion Ratio Lower Upper
 180 100
 182 101.3 76.4 114.6
 145 216.9 26.9 40.3#





#71

1,2,3-Trichlorobenzene

Concen: 0.110 ug/L

RT: 13.78 min Scan# 3946

Delta R.T. 0.01 min

Lab File: VV016363.D

Acq: 30 May 2020 16:37

Instrument :

MSVOA_V

ClientSampleId :

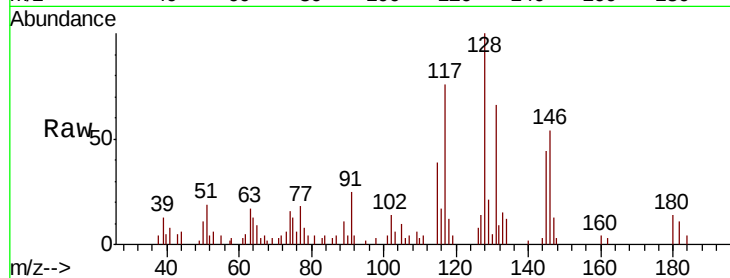
Tot Ion:180 Resp: 800

Ion Ratio Lower Upper

180 100

182 86.6 75.1 112.7

145 2713.4 28.5 42.7#



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

