

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090920\
 Data File : VU040066.D
 Acq On : 09 Sep 2020 17:15
 Operator : SY/MD
 Sample : TEST
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TEST

Quant Time: Sep 10 04:29:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U090920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Sep 10 04:09:54 2020
 Response via : Initial Calibration

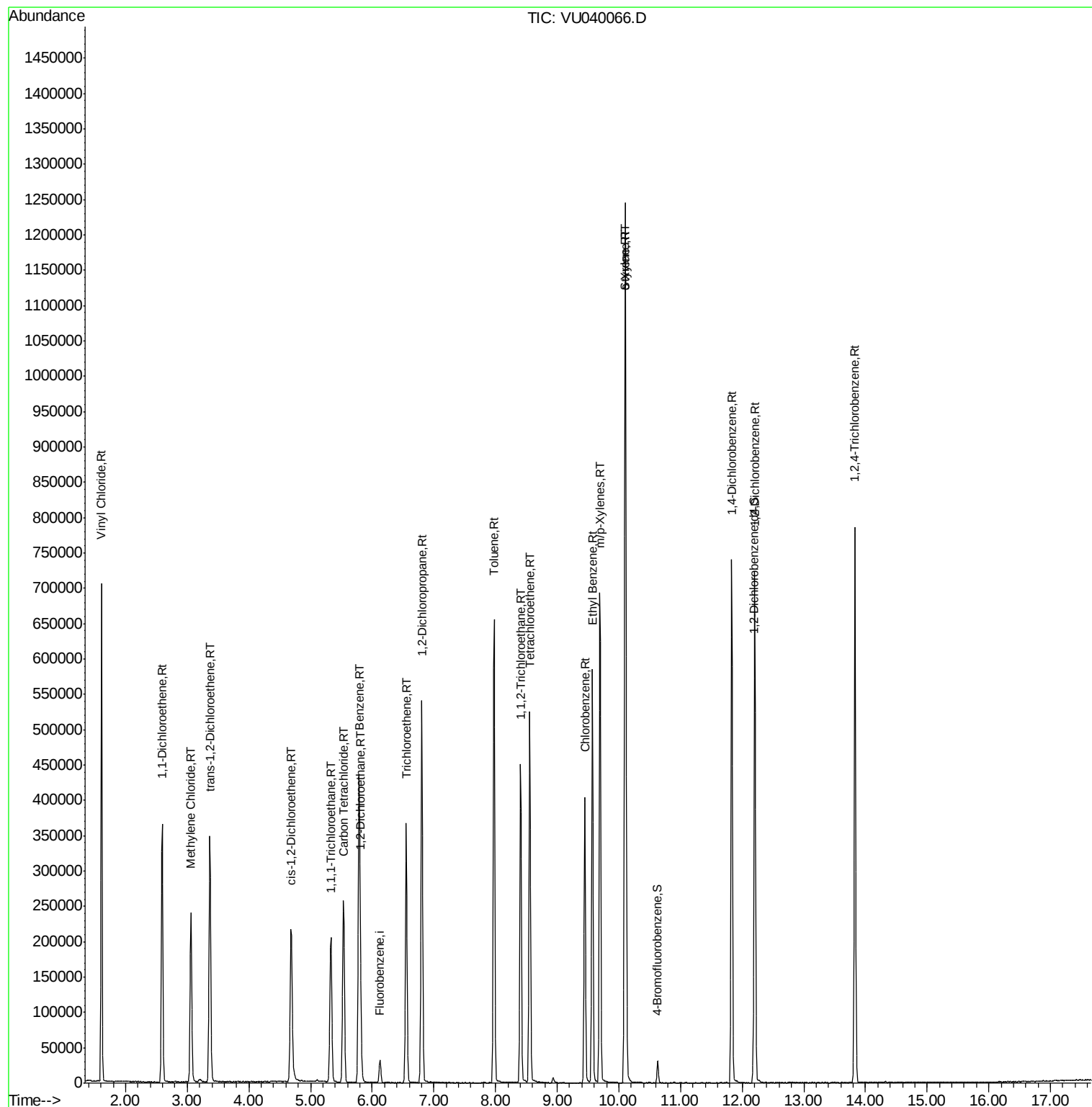
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.12	96	27589	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	10748	0.95	ug/l	0.00
Spiked Amount 1.000			Recovery	=	95.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	10182	0.99	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
Target Compounds						Ovalue
4) Vinyl Chloride	1.61	62	450719	55.312	ug/l	99
9) 1,1-Dichloroethene	2.59	96	112181	18.800	ug/l	97
15) Methylene Chloride	3.06	84	102304	14.397	ug/l	98
16) trans-1,2-Dichloroethene	3.37	96	131785	20.341	ug/l	98
22) cis-1,2-Dichloroethene	4.68	96	96006	12.723	ug/l	87
28) 1,1,1-Trichloroethane	5.33	97	140467	11.255	ug/l	99
30) Carbon Tetrachloride	5.54	117	165925	14.656	ug/l	99
35) Benzene	5.79	78	362362	12.323	ug/l	100
36) 1,2-Dichloroethane	5.81	62	95783	8.373	ug/l	99
37) Trichloroethene	6.55	130	107353	14.359	ug/l	93
38) 1,2-Dichloropropane	6.80	63	183259	21.524	ug/l	99
49) Toluene	7.98	92	246171	13.851	ug/l	100
52) 1,1,2-Trichloroethane	8.41	97	128644	20.409	ug/l	99
58) Tetrachloroethene	8.56	164	96321	13.275	ug/l	99
59) Chlorobenzene	9.45	112	189721	9.626	ug/l	97
63) Ethyl Benzene	9.57	91	377442	11.223	ug/l	99
64) m/p-Xylenes	9.69	106	174589	13.895	ug/l	98
65) o-Xylene	10.10	106	219831	18.123	ug/l	99
66) Styrene	10.11	104	288983	13.564	ug/l	95
83) 1,4-Dichlorobenzene	11.83	146	256119	15.026	ug/l	99
85) 1,2-Dichlorobenzene	12.20	146	246585	14.951	ug/l	98
87) 1,2,4-Trichlorobenzene	13.83	180	200846	21.099	ug/l	99
-----	-----	-----	-----	-----	-----	-----

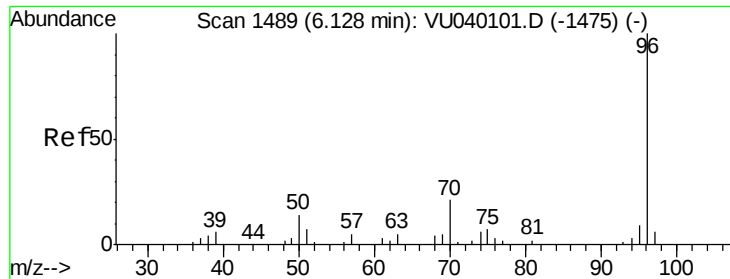
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U090920DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Thu Sep 10 04:09:54 2020
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.12 min Scan# 1488

Delta R.T. -0.00 min

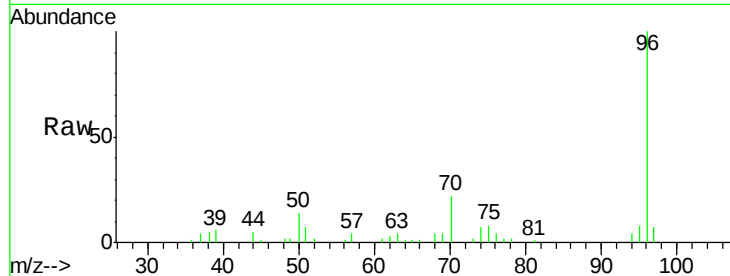
Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

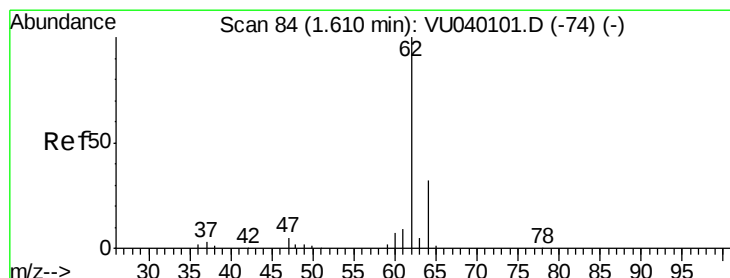
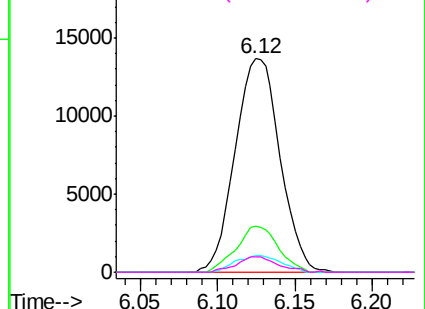
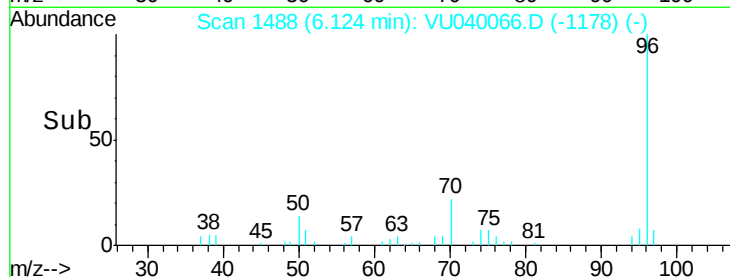
Instrument :
MSVOA_U
ClientSampleId :
TEST

Tot Ion: 96 Resp: 27589

Ion	Ratio	Lower	Upper
96	100		
70	20.1	17.1	25.7
95	0.0	7.6	11.4#
97	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040066.D (-1178) (-)



#4

Vinyl Chloride

Concen: 55.312 ug/l

RT: 1.61 min Scan# 84

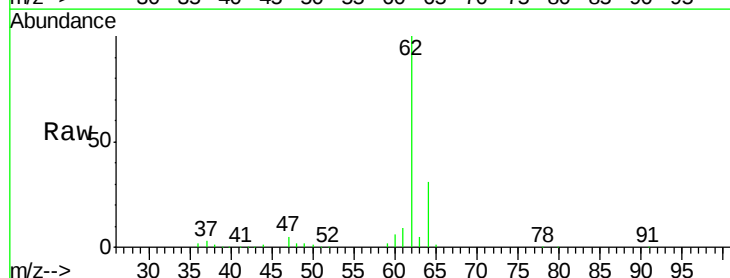
Delta R.T. -0.00 min

Lab File: VU040066.D

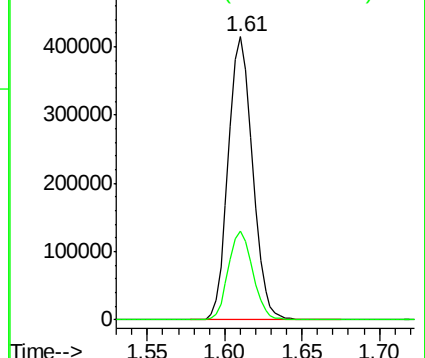
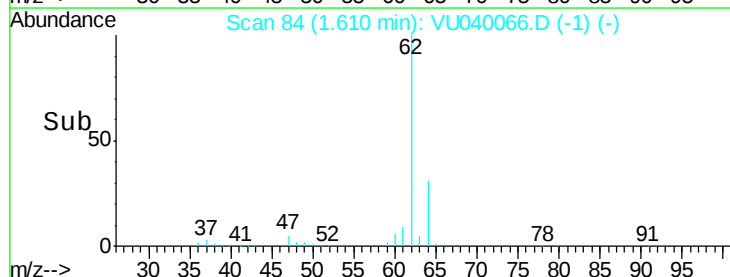
Acq: 09 Sep 2020 17:15

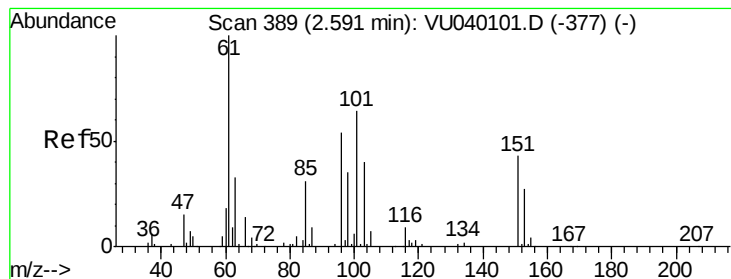
Tgt Ion: 62 Resp: 450719

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.4	38.0



Abundance Ion 62.00 (61.70 to 62.70): VU040066.D (-1) (-)





#9

1,1-Dichloroethene

Concen: 18.800 ug/l

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

Instrument :

MSVOA_U

ClientSampleId :

TEST

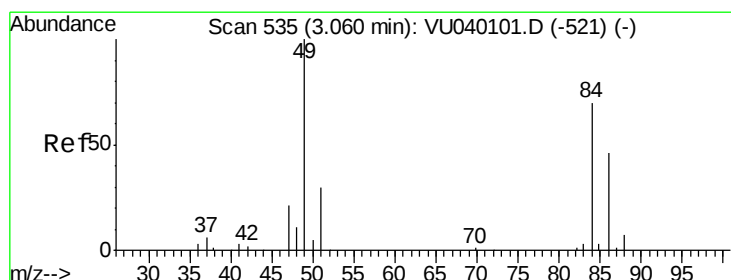
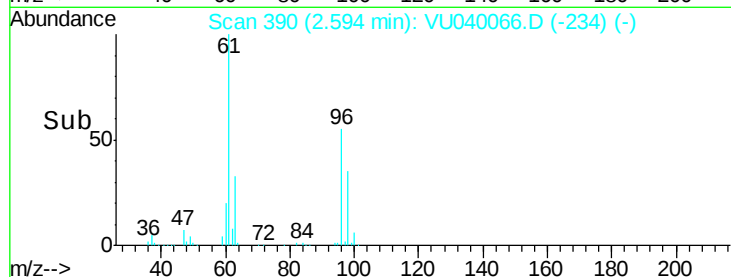
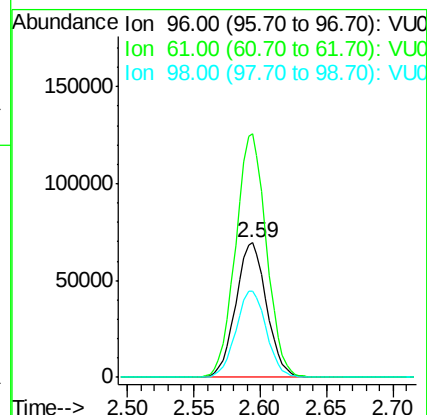
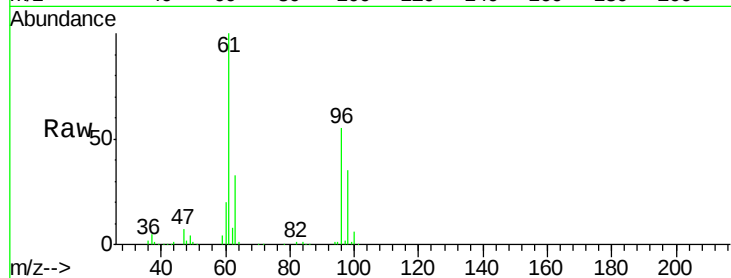
Tot Ion: 96 Resp: 112181

Ion Ratio Lower Upper

96 100

61 180.7 0.0 557.1

98 64.0 0.0 125.6



#15

Methylene Chloride

Concen: 14.397 ug/l

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

Tgt Ion: 84 Resp: 102304

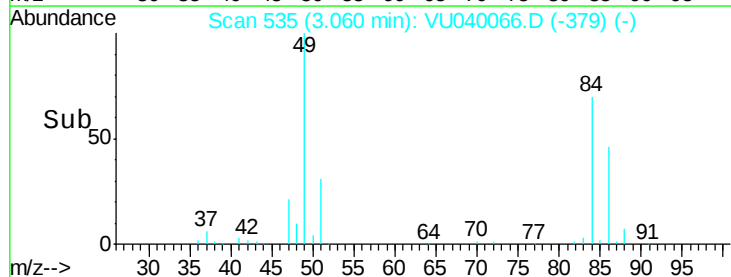
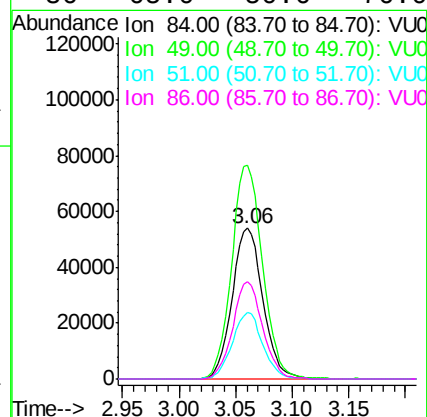
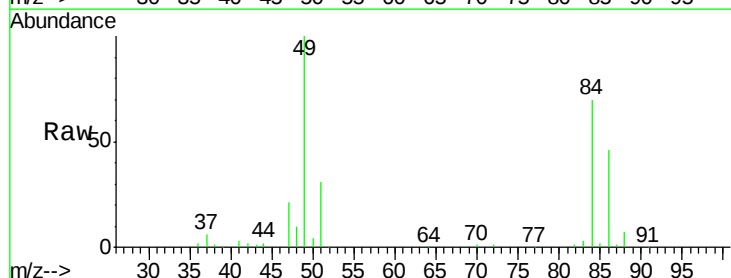
Ion Ratio Lower Upper

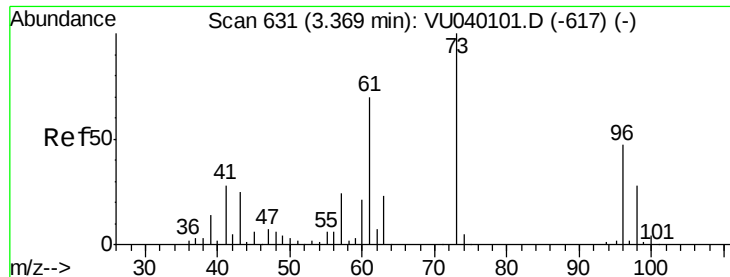
84 100

49 141.9 114.3 171.5

51 44.2 0.0 84.6

86 65.0 50.6 76.0

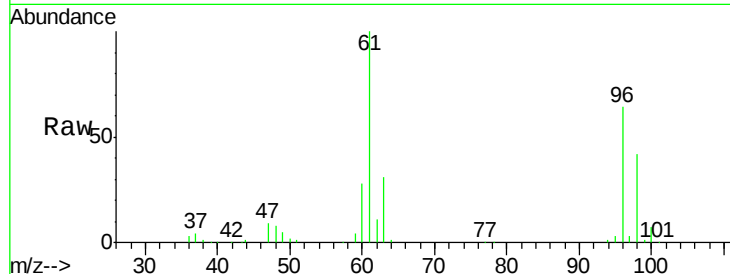




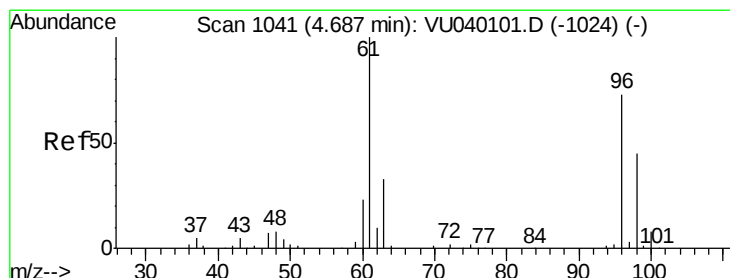
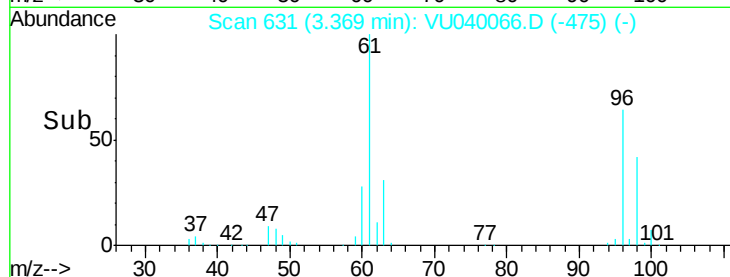
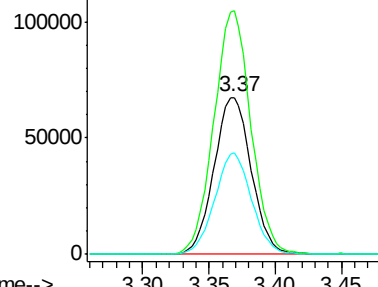
#16
 trans-1,2-Dichloroethene
 Concen: 20.341 ug/l
 RT: 3.37 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VU040066.D
 Acq: 09 Sep 2020 17:15

Instrument :
 MSVOA_U
 ClientSampleId :
 TEST

Tot Ion: 96 Resp: 131785
 Ion Ratio Lower Upper
 96 100
 61 155.1 121.4 182.0
 98 64.7 51.9 77.9

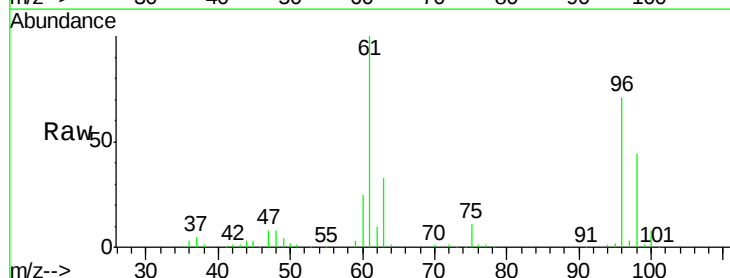


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

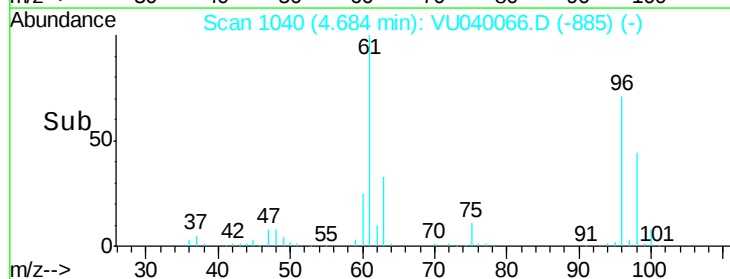
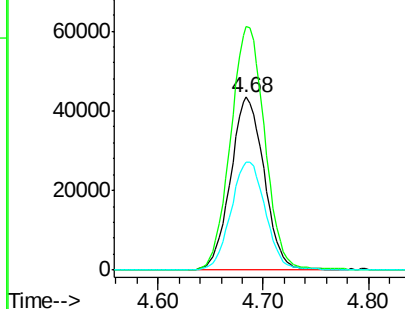


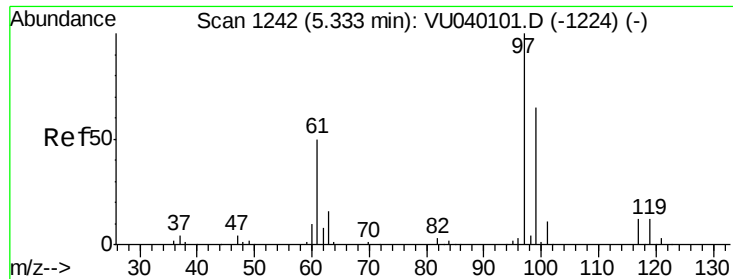
#22
 cis-1,2-Dichloroethene
 Concen: 12.723 ug/l
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VU040066.D
 Acq: 09 Sep 2020 17:15

Tgt Ion: 96 Resp: 96006
 Ion Ratio Lower Upper
 96 100
 61 143.5 0.0 420.0
 98 64.4 31.8 95.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

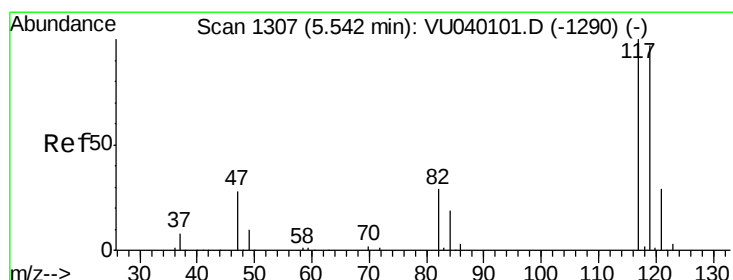
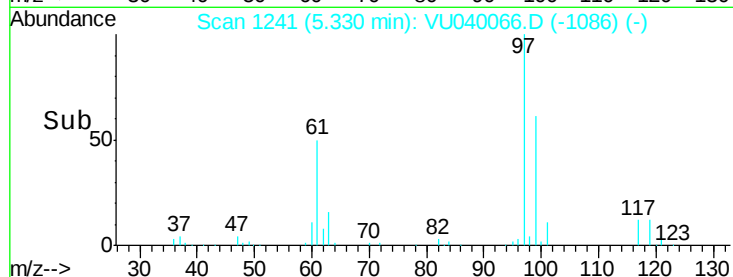
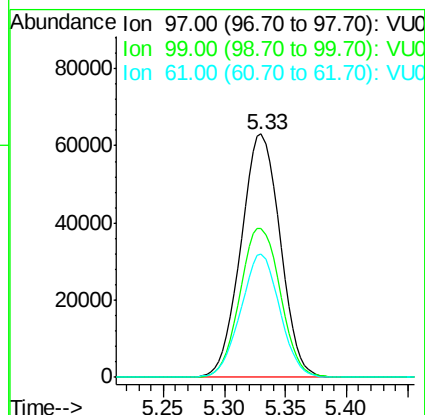
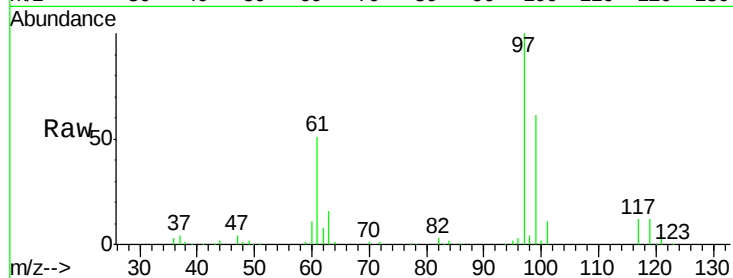




#28
 1,1,1-Trichloroethane
 Concen: 11.255 ug/l
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU040066.D
 Acq: 09 Sep 2020 17:15

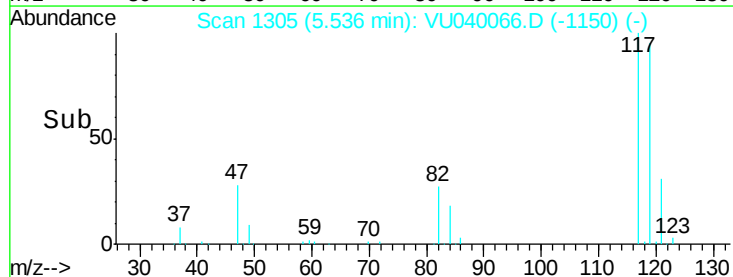
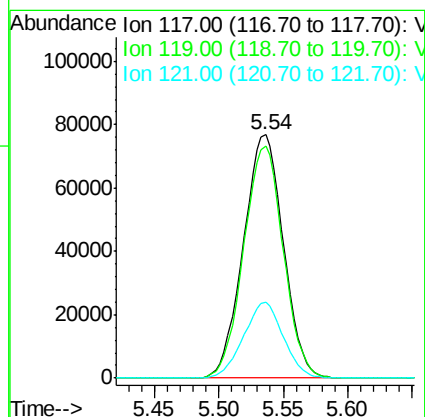
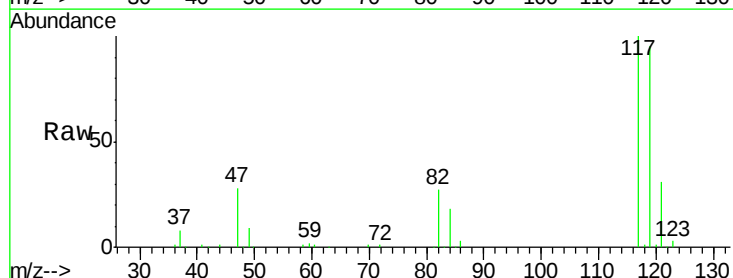
Instrument :
 MSVOA_U
 ClientSampleId :
 TEST

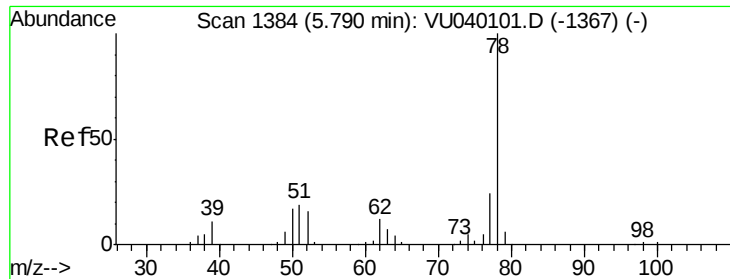
Tot Ion: 97 Resp: 140467
 Ion Ratio Lower Upper
 97 100
 99 63.0 31.8 95.4
 61 50.3 25.1 75.2



#30
 Carbon Tetrachloride
 Concen: 14.656 ug/l
 RT: 5.54 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU040066.D
 Acq: 09 Sep 2020 17:15

Tgt Ion: 117 Resp: 165925
 Ion Ratio Lower Upper
 117 100
 119 95.3 77.0 115.4
 121 31.3 24.2 36.4





#35

Benzene

Concen: 12.323 ug/l

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

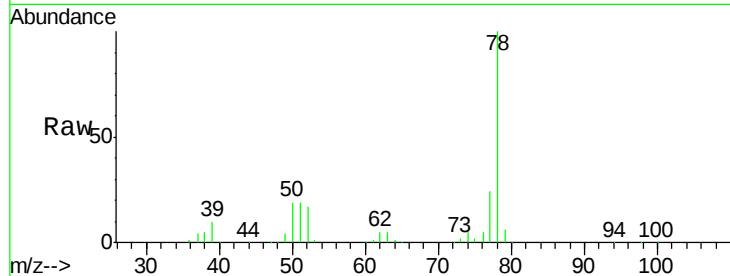
Instrument :
MSVOA_U
ClientSampled :
TEST

Tot Ion: 78 Resp: 362362

Ion Ratio Lower Upper

78 100

77 23.7 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

200000

150000

100000

50000

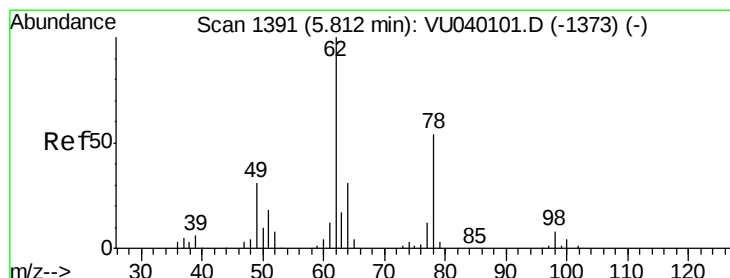
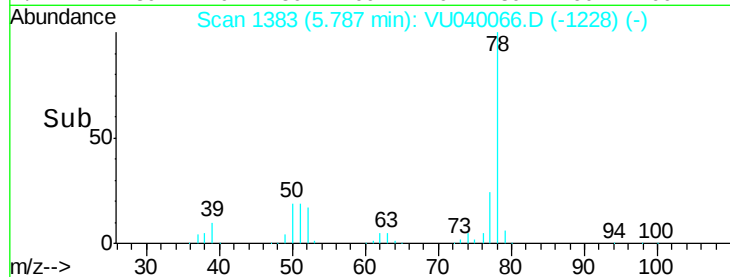
0

5.79

5.80

5.90

Time-->



#36

1,2-Dichloroethane

Concen: 8.373 ug/l

RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VU040066.D

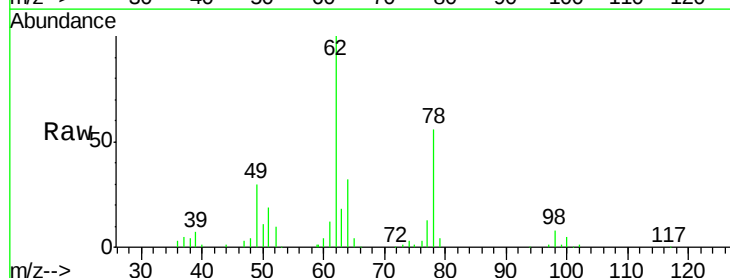
Acq: 09 Sep 2020 17:15

Tgt Ion: 62 Resp: 95783

Ion Ratio Lower Upper

62 100

98 7.7 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

50000

40000

30000

20000

10000

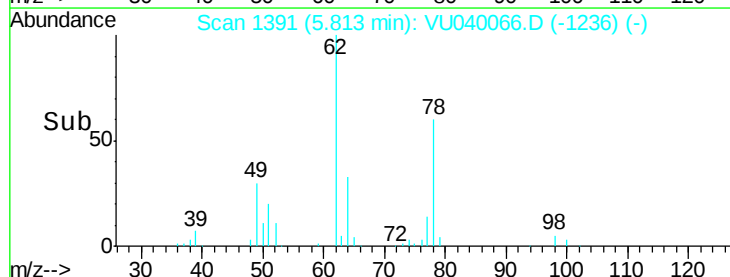
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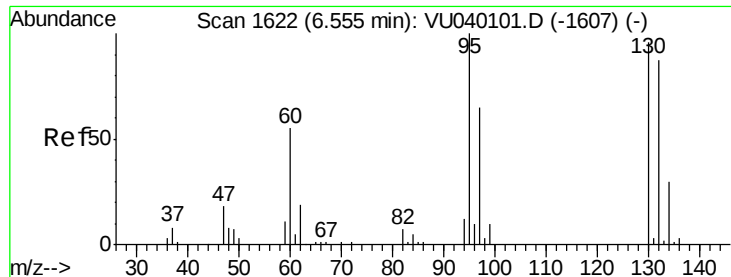
5.81

5.80

5.90

Time-->

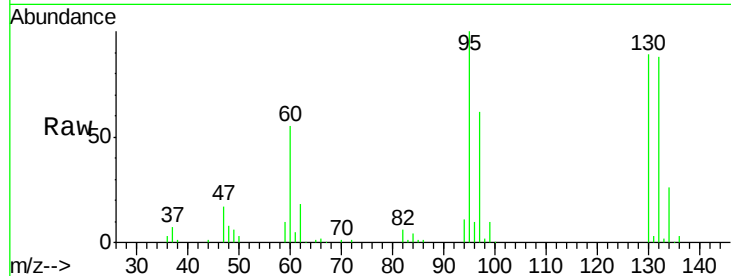




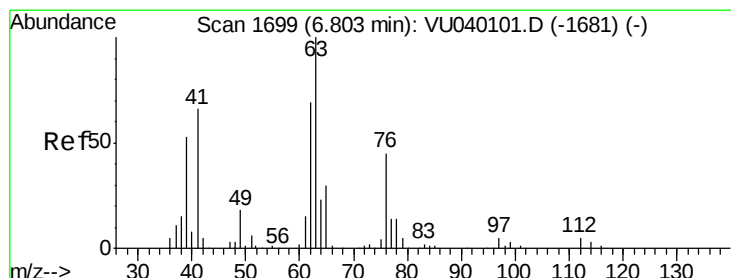
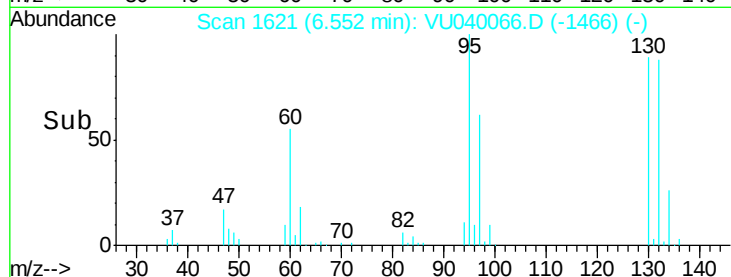
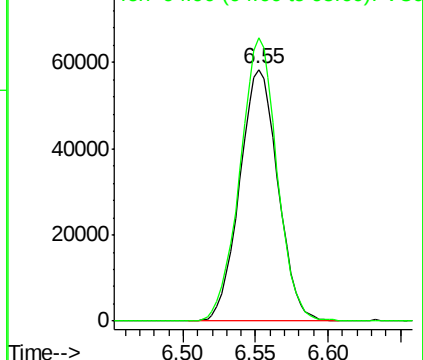
#37
 Trichloroethene
 Concen: 14.359 ug/l
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040066.D
 Acq: 09 Sep 2020 17:15

Instrument :
 MSVOA_U
 ClientSampleId :
 TEST

Tot Ion:130 Resp: 107353
 Ion Ratio Lower Upper
 130 100
 95 112.5 84.2 126.2

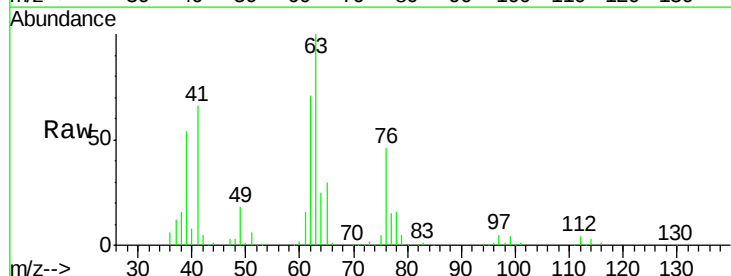


Abundance Ion 129.90 (129.60 to 130.60): VU040101.D (-1607) (-)
 Ion 94.90 (94.60 to 95.60): VU040101.D (-1607) (-)

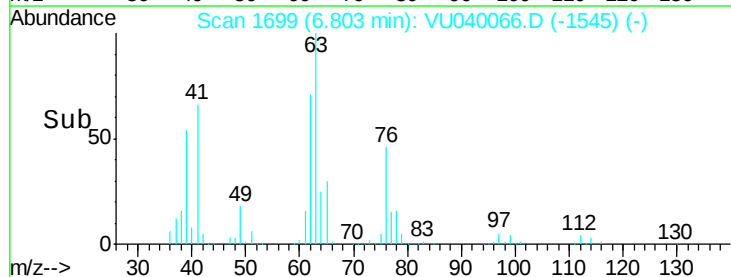
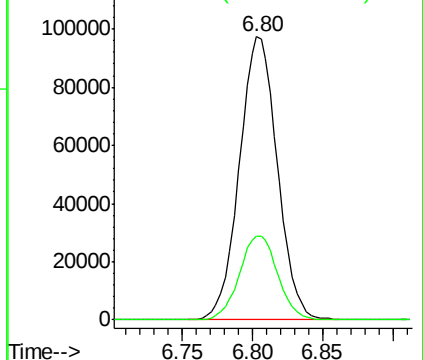


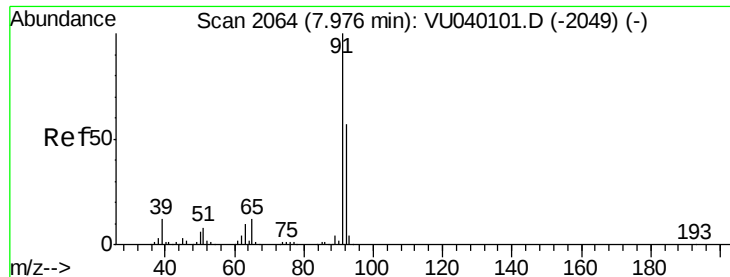
#38
 1,2-Dichloropropane
 Concen: 21.524 ug/l
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU040066.D
 Acq: 09 Sep 2020 17:15

Tgt Ion: 63 Resp: 183259
 Ion Ratio Lower Upper
 63 100
 65 29.5 23.0 34.6



Abundance Ion 63.00 (62.70 to 63.70): VU040101.D (-1681) (-)
 Ion 65.00 (64.70 to 65.70): VU040101.D (-1681) (-)





#49

Toluene

Concen: 13.851 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

Instrument :

MSVOA_U

ClientSampleId :

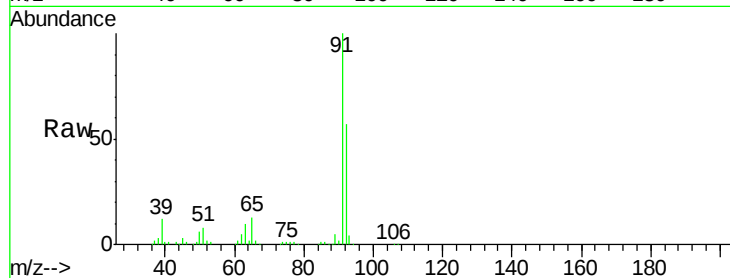
TEST

Tot Ion: 92 Resp: 246171

Ion Ratio Lower Upper

92 100

91 172.8 138.6 207.8



Abundance Ion 92.00 (91.70 to 92.70): VU040066.D (-1909) (-)

Ion 91.00 (90.70 to 91.70): VU040066.D (-1909) (-)

300000

250000

200000

150000

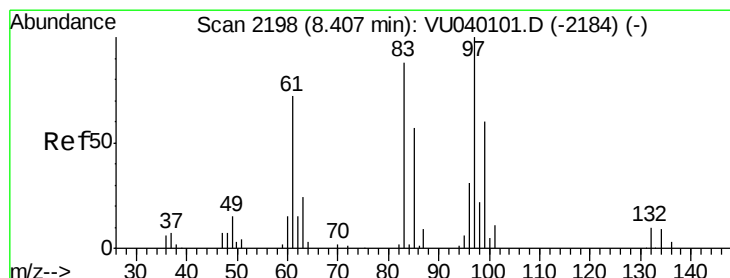
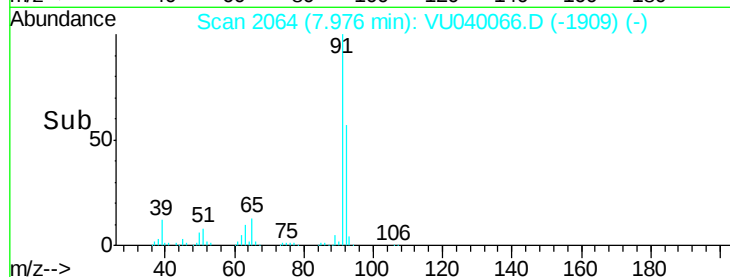
100000

50000

0

7.90 7.95 8.00 8.05

Time-->



#52

1,1,2-Trichloroethane

Concen: 20.409 ug/l

RT: 8.41 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

Tgt Ion: 97 Resp: 128644

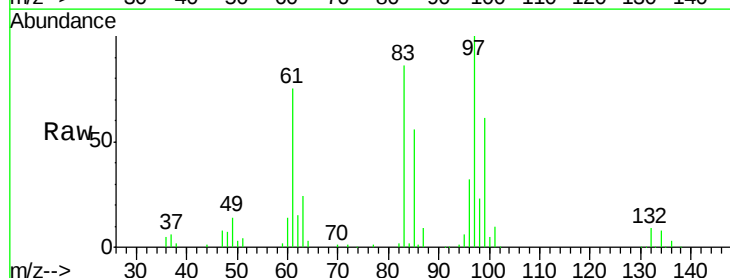
Ion Ratio Lower Upper

97 100

83 85.8 68.7 103.1

85 55.8 46.7 70.1

99 60.8 48.6 72.8



Abundance Ion 97.00 (96.70 to 97.70): VU040066.D (-2043) (-)

Ion 82.95 (82.65 to 83.65): VU040066.D (-2043) (-)

Ion 84.95 (84.65 to 85.65): VU040066.D (-2043) (-)

Ion 98.95 (98.65 to 99.65): VU040066.D (-2043) (-)

120000

100000

80000

60000

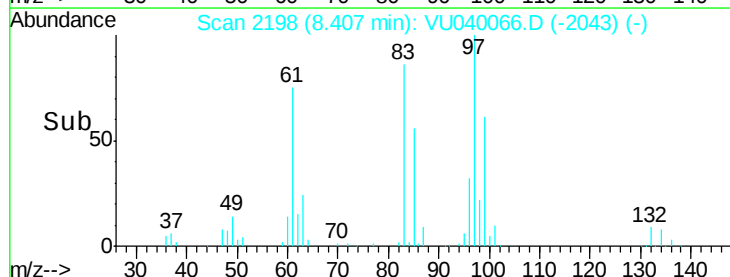
40000

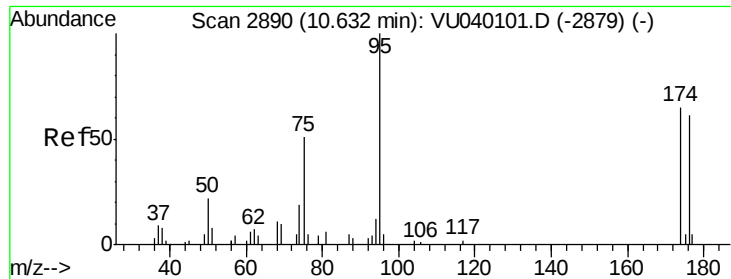
20000

0

8.35 8.40 8.45

Time-->

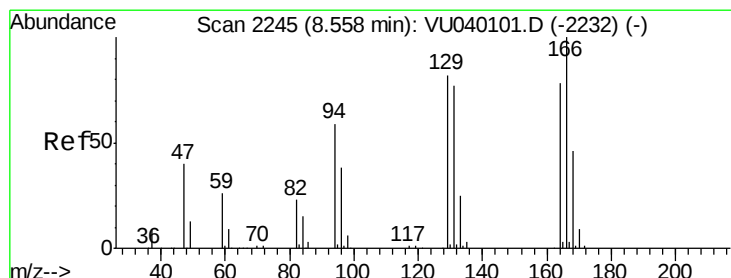
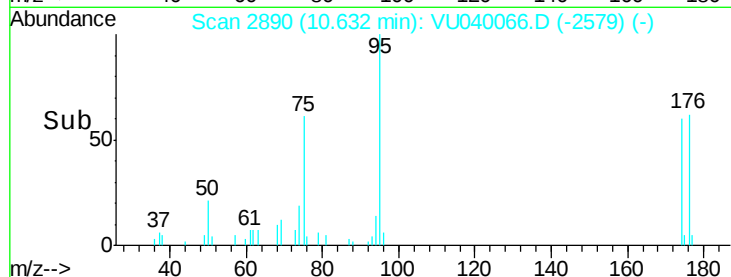
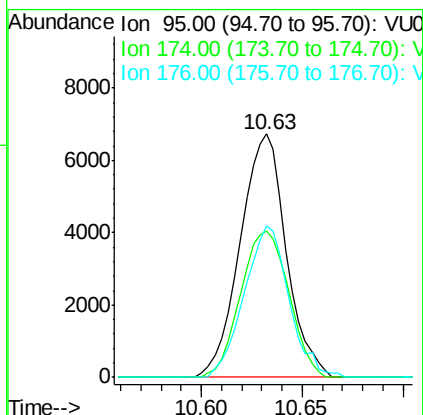
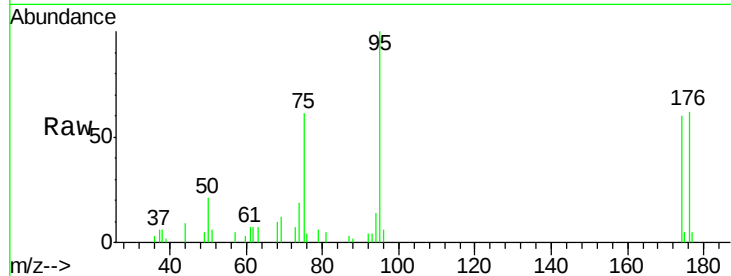




#57
4-Bromofluorobenzene
Concen: 0.954 ug/l
RT: 10.63 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VU040066.D
Acq: 09 Sep 2020 17:15

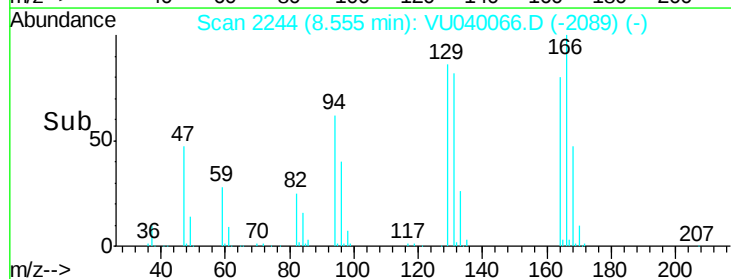
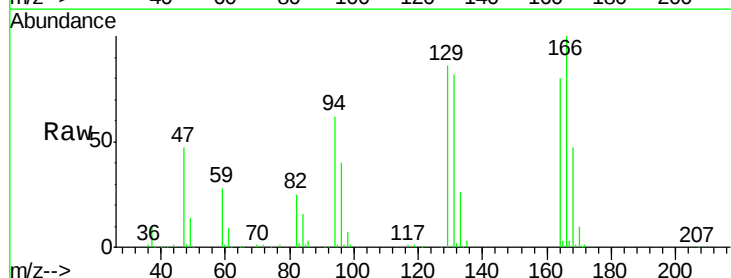
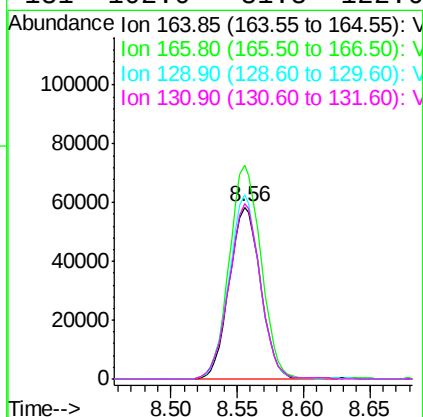
Instrument :
MSVOA_U
ClientSampleId :
TEST

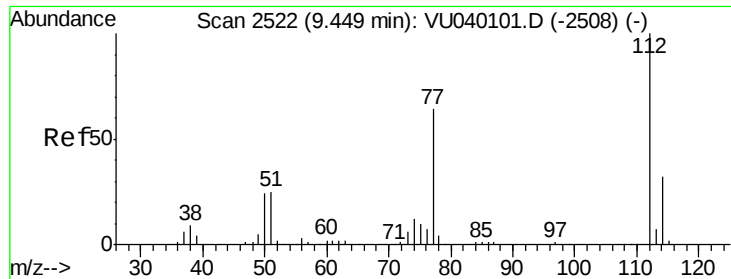
Tot Ion: 95 Resp: 10748
Ion Ratio Lower Upper
95 100
174 63.1 49.4 74.0
176 60.3 50.1 75.1



#58
Tetrachloroethene
Concen: 13.275 ug/l
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU040066.D
Acq: 09 Sep 2020 17:15

Tgt Ion: 164 Resp: 96321
Ion Ratio Lower Upper
164 100
166 124.3 101.3 151.9
129 107.0 84.8 127.2
131 102.0 81.8 122.6

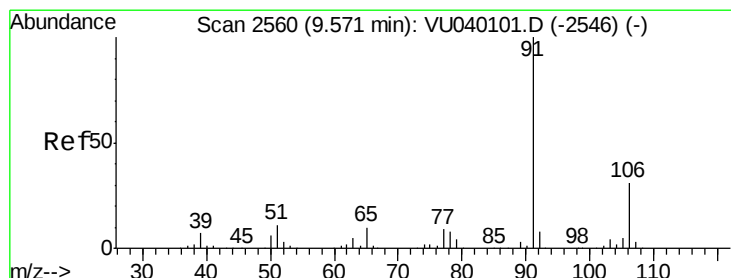
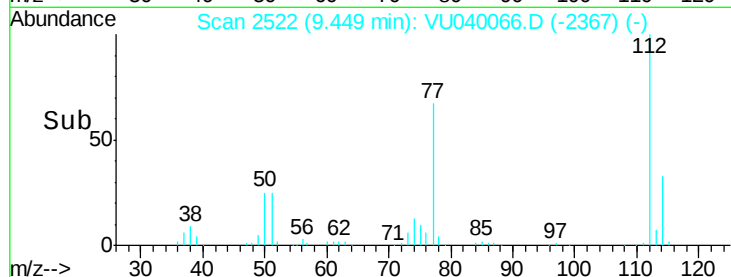
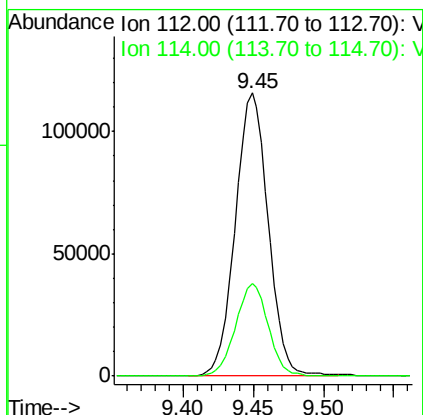
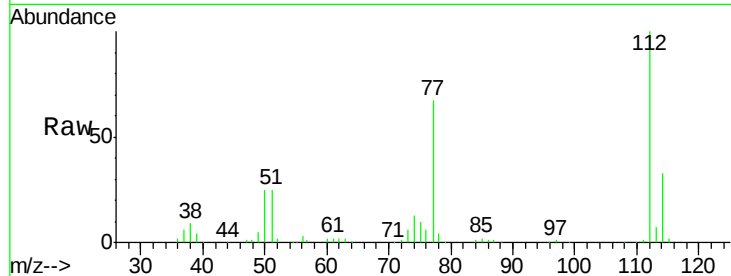




#59
Chlorobenzene
Concen: 9.626 ug/l
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040066.D
Acq: 09 Sep 2020 17:15

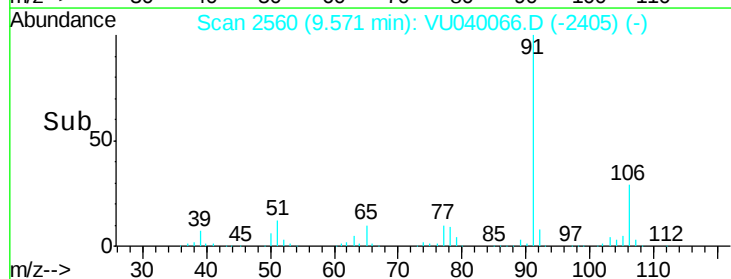
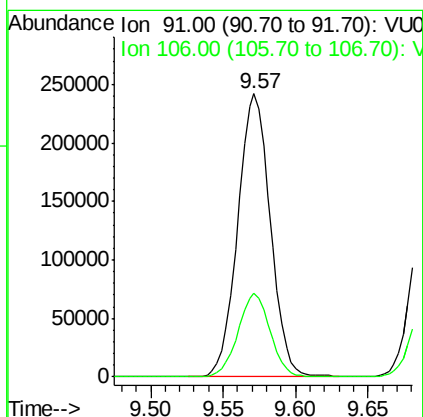
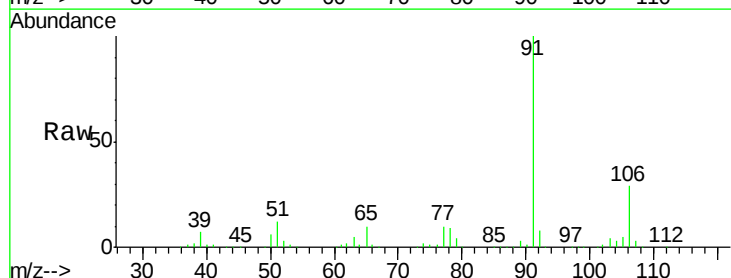
Instrument :
MSVOA_U
ClientSampleId :
TEST

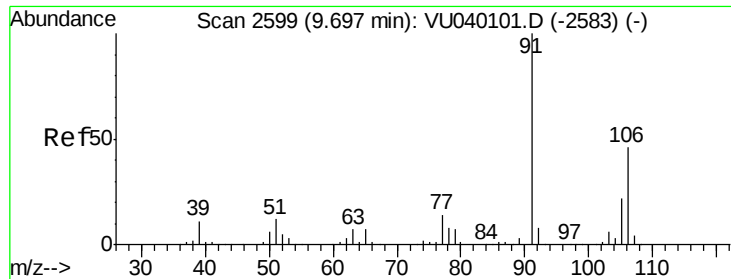
Tot Ion:112 Resp: 189721
Ion Ratio Lower Upper
112 100
114 32.5 24.8 37.2



#63
Ethyl Benzene
Concen: 11.223 ug/l
RT: 9.57 min Scan# 2560
Delta R.T. -0.00 min
Lab File: VU040066.D
Acq: 09 Sep 2020 17:15

Tgt Ion: 91 Resp: 377442
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.8





#64

m/p-Xylenes

Concen: 13.895 ug/l

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

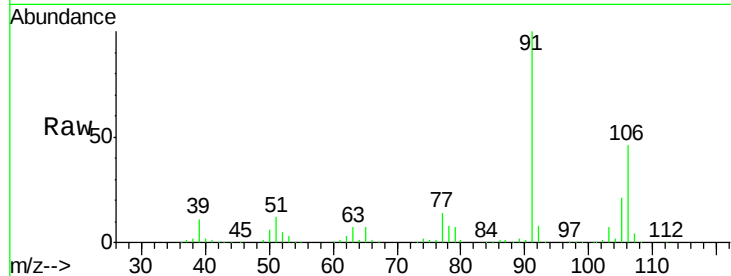
Instrument :
MSVOA_U
ClientSampleId :
TEST

Tot Ion:106 Resp: 174589

Ion Ratio Lower Upper

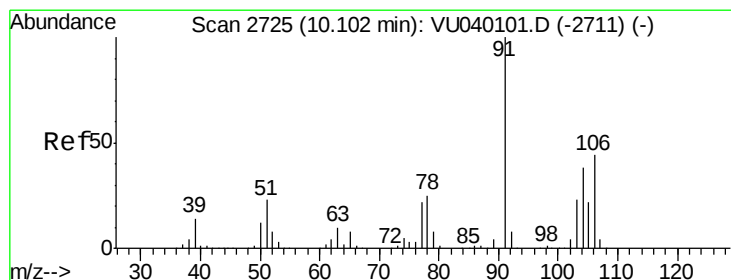
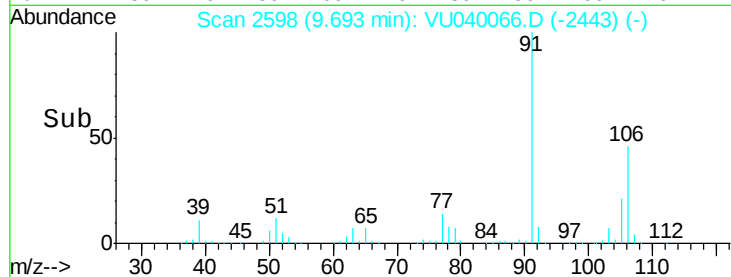
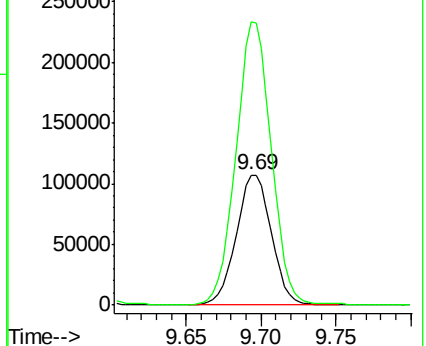
106 100

91 217.6 171.4 257.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 18.123 ug/l

RT: 10.10 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VU040066.D

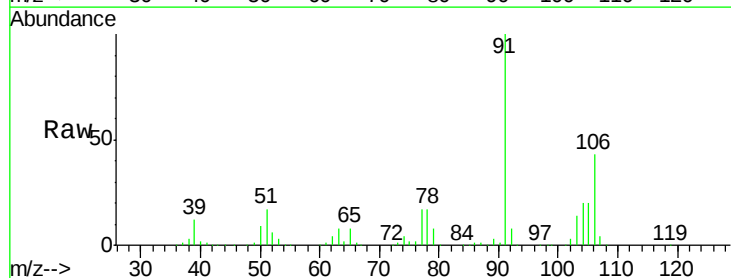
Acq: 09 Sep 2020 17:15

Tgt Ion:106 Resp: 219831

Ion Ratio Lower Upper

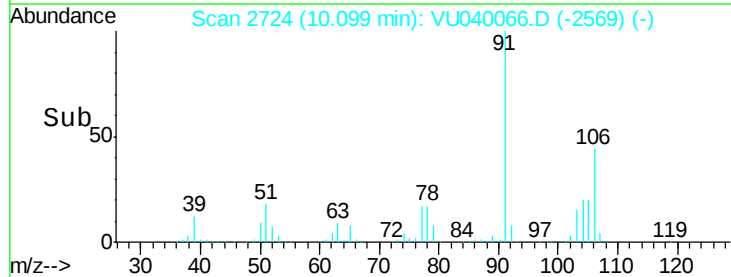
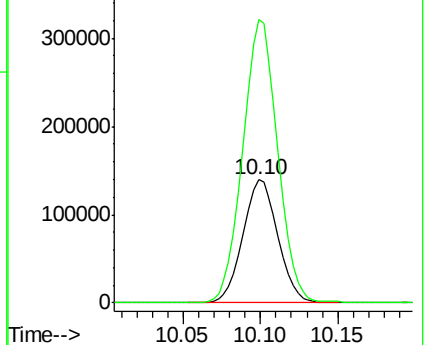
106 100

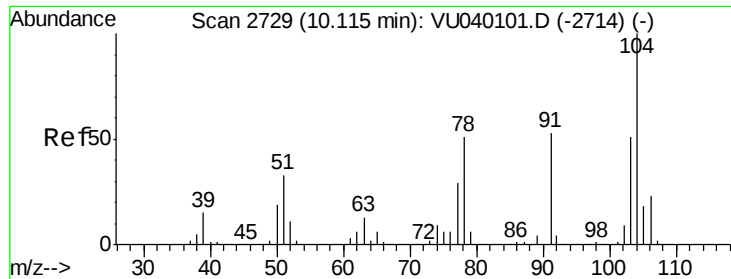
91 230.4 114.2 342.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

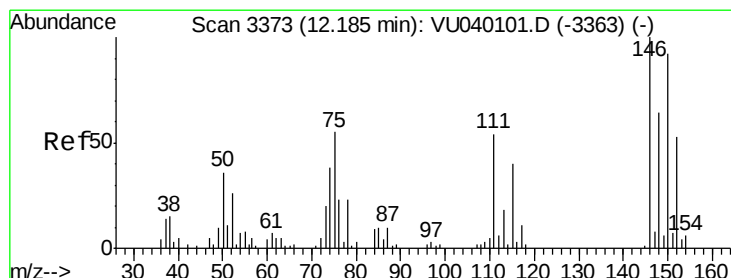
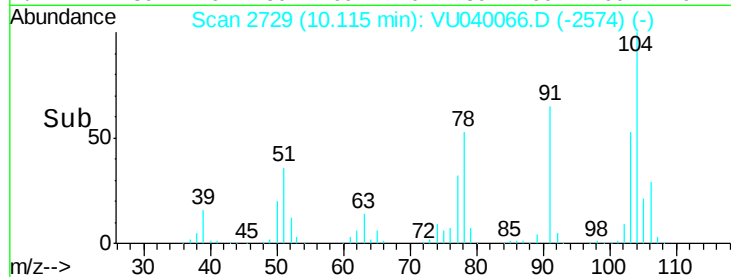
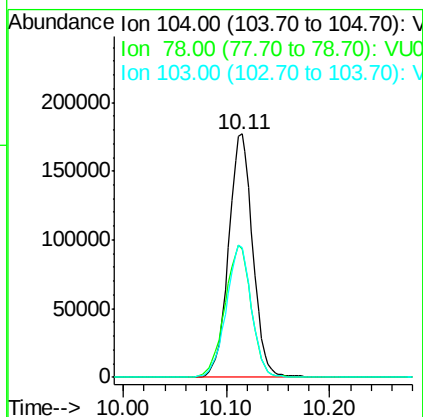
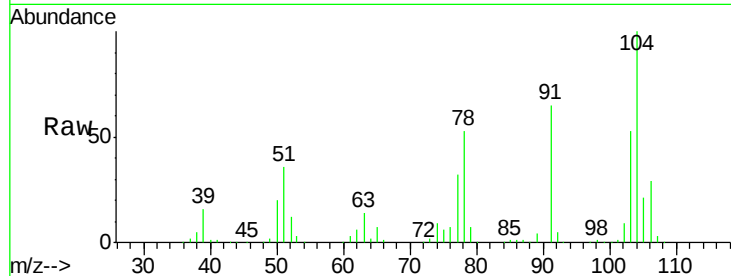




#66
Stvrene
Concen: 13.564 ug/l
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040066.D
Acq: 09 Sep 2020 17:15

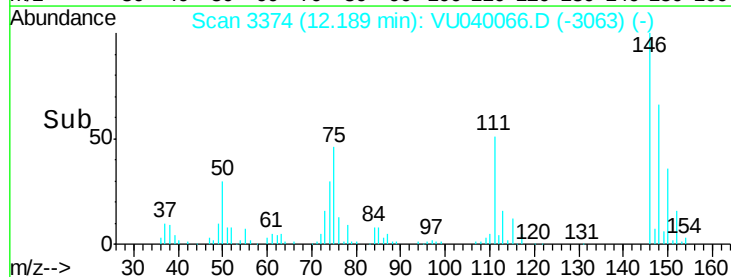
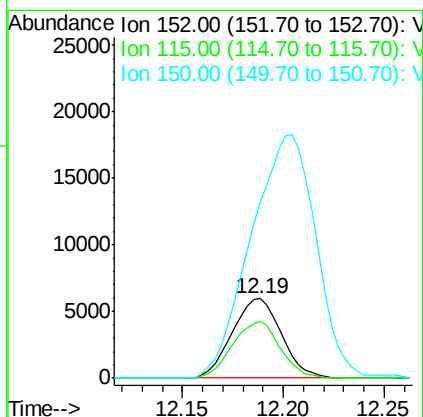
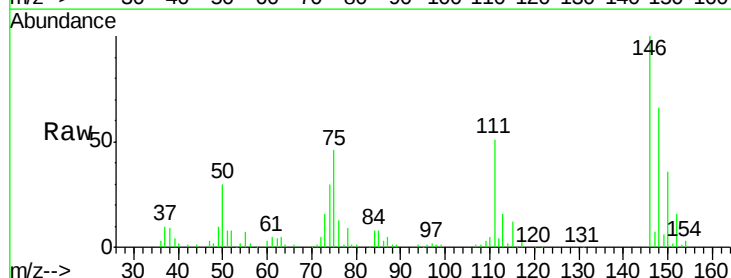
Instrument :
MSVOA_U
ClientSampled :
TEST

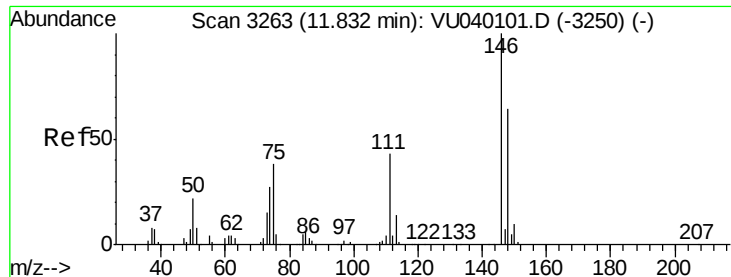
Tot Ion:104 Resp: 288983
Ion Ratio Lower Upper
104 100
78 59.3 43.9 65.9
103 56.9 43.7 65.5



#68
1,2-Dichlorobenzene-d4
Concen: 0.989 ug/l
RT: 12.19 min Scan# 3374
Delta R.T. -0.00 min
Lab File: VU040066.D
Acq: 09 Sep 2020 17:15

Tgt Ion:152 Resp: 10182
Ion Ratio Lower Upper
152 100
115 68.9 0.0 309.0
150 401.3 0.0 658.2





#83

1,4-Dichlorobenzene

Concen: 15.026 ug/l

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

Instrument :

MSVOA_U

ClientSampleId :

TEST

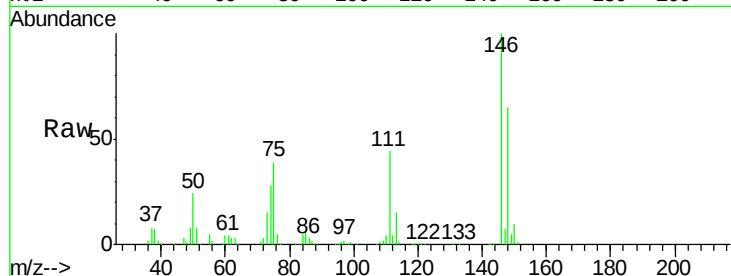
Tot Ion:146 Resp: 256119

Ion Ratio Lower Upper

146 100

111 43.6 34.2 51.2

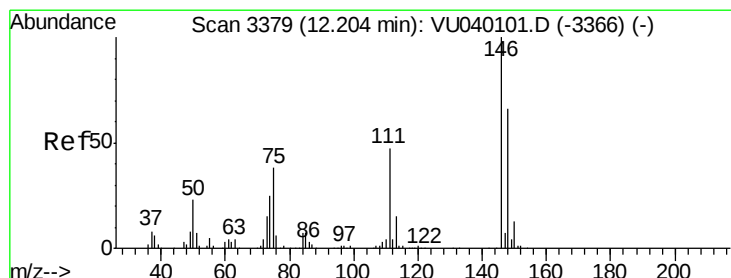
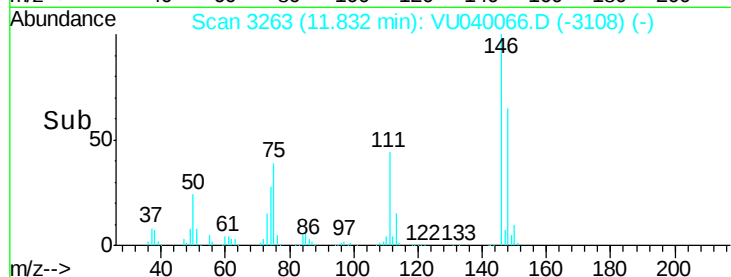
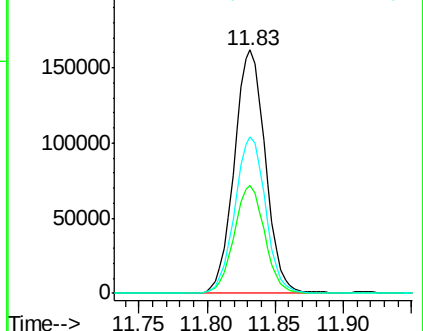
148 63.8 50.2 75.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#85

1,2-Dichlorobenzene

Concen: 14.951 ug/l

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

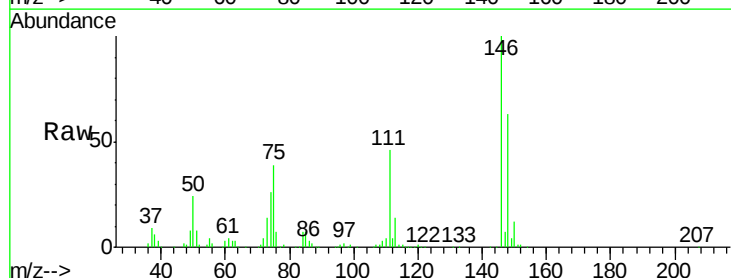
Tgt Ion:146 Resp: 246585

Ion Ratio Lower Upper

146 100

111 46.6 22.9 68.7

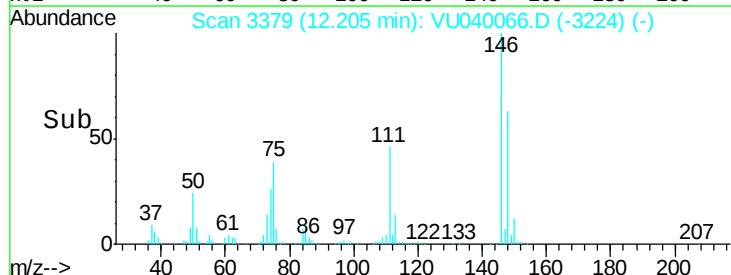
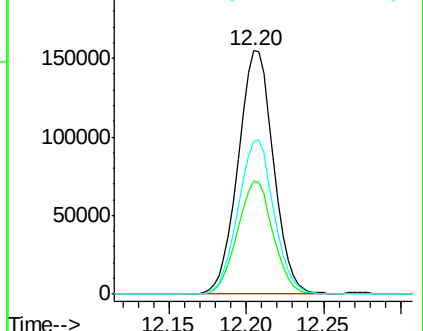
148 64.2 31.1 93.2

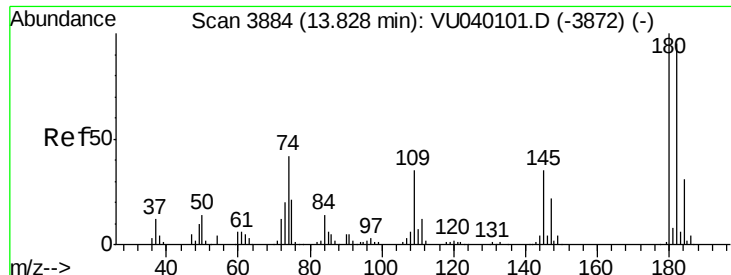


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#87

1,2,4-Trichlorobenzene

Concen: 21.099 ug/l

RT: 13.83 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VU040066.D

Acq: 09 Sep 2020 17:15

Instrument :

MSVOA_U

ClientSampleId :

TEST

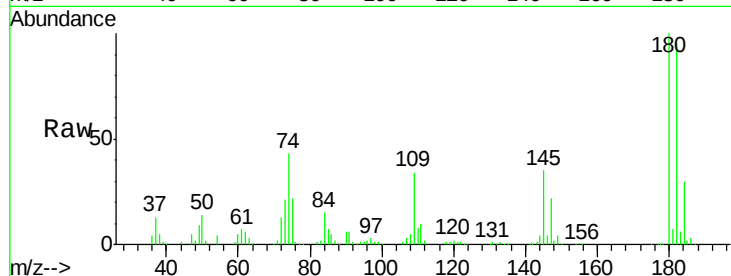
Tot Ion:180 Resp: 200846

Ion Ratio Lower Upper

180 100

182 94.5 75.0 112.4

145 35.0 27.7 41.5



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

