

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092920\
 Data File : VU040351.D
 Acq On : 29 Sep 2020 10:54
 Operator : SY/MD
 Sample : VSTD02002
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Quant Time: Sep 30 01:14:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Sep 30 01:04:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	141227	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136532	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	74865	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	140928	18.81	ug/L	0.00
7) Chloroethane-d5	1.92	69	113821	18.04	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.58	63	347118	18.32	ug/L	0.00
20) 2-Butanone-d5	4.65	46	739007	237.48	ug/L	0.00
24) Chloroform-d	5.08	84	343012	19.55	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.72	65	196042	18.13	ug/L	0.00
32) Benzene-d6	5.74	84	585486	19.11	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.70	67	208470	20.18	ug/L	0.00
41) Toluene-d8	7.91	98	515120	18.47	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.19	79	90315	19.45	ug/L	0.00
46) 2-Hexanone-d5	8.64	63	586944	257.30	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.75	84	204069	22.44	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.19	152	234243	19.64	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	286454	20.620 ug/L	99
3) Chloromethane	1.53	50	268886	20.037 ug/L	99
5) Vinyl chloride	1.61	62	276084	20.415 ug/L	99
6) Bromomethane	1.87	94	138248	20.186 ug/L	98
8) Chloroethane	1.94	64	148268	18.247 ug/L	96
9) Trichlorofluoromethane	2.14	101	378855	19.842 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	237878	19.159 ug/L	98
12) 1,1-Dichloroethene	2.59	96	220036	20.417 ug/L	95
13) Acetone	2.66	43	560029	202.008 ug/L	98
14) Carbon disulfide	2.81	76	682230	19.713 ug/L	100
15) Methyl Acetate	2.97	43	135060	18.999 ug/L	97
16) Methylene chloride	3.06	84	243948	17.268 ug/L	94
17) Methyl tert-butyl Ether	3.38	73	638627	20.010 ug/L	98
18) trans-1,2-Dichloroethene	3.37	96	228417	19.667 ug/L	97
19) 1,1-Dichloroethane	3.89	63	456949	19.221 ug/L	99
21) 2-Butanone	4.73	43	971368	211.952 ug/L	99
22) cis-1,2-Dichloroethene	4.69	96	253968	20.241 ug/L	98
23) Bromochloromethane	4.99	128	113976	20.743 ug/L	99
25) Chloroform	5.11	83	462236	18.983 ug/L	99
27) 1,2-Dichloroethane	5.81	62	327773	18.684 ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	395871	19.061 ug/L	99
30) Cyclohexane	5.40	56	442062	21.728 ug/L	99
31) Carbon tetrachloride	5.54	117	344189	19.272 ug/L	100
33) Benzene	5.79	78	978017	20.329 ug/L	100
34) Trichloroethene	6.55	95	254171	19.845 ug/L	96
35) Methylcyclohexane	6.77	83	417540	21.333 ug/L	97
37) 1,2-Dichloropropane	6.80	63	267302	20.655 ug/L	100
38) Bromodichloromethane	7.11	83	337177	19.174 ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	399320	21.235 ug/L	95
40) 4-Methyl-2-pentanone	7.80	43	2269499	214.198 ug/L	99

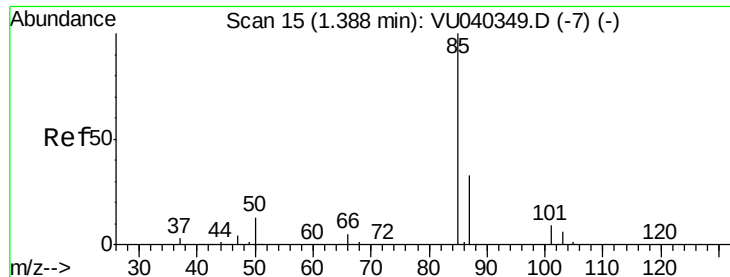
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092920\
 Data File : VU040351.D
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.98	91	1022971	20.679	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	365442	20.916	ug/L	99
45) 1,1,2-Trichloroethane	8.40	97	187946	20.019	ug/L	98
47) Tetrachloroethene	8.56	164	181758	21.272	ug/L	98
48) 2-Hexanone	8.69	43	1664470	216.145	ug/L	100
49) Dibromochloromethane	8.82	129	226069	20.051	ug/L	100
50) 1,2-Dibromoethane	8.93	107	183604	20.154	ug/L #	93
51) Chlorobenzene	9.45	112	644112	20.797	ug/L	99
52) Ethylbenzene	9.57	91	1166781	20.961	ug/L	99
53) m,p-Xylene	9.69	106	435242	21.770	ug/L	100
54) o-Xylene	10.10	106	418182	22.000	ug/L	97
55) Styrene	10.11	104	732597	22.060	ug/L	98
56) Isopropylbenzene	10.48	105	1134955	21.963	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.78	83	251262	20.482	ug/L	99
59) 1,2,3-Trichloropropane	10.82	75	191221	19.982	ug/L	100
61) Bromoform	10.29	173	131027	19.611	ug/L	97
62) 1,3-Dichlorobenzene	11.74	146	534996	19.887	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	539149	19.868	ug/L	100
65) 1,2-Dichlorobenzene	12.21	146	508660	19.581	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	46610	17.570	ug/L	93
67) 1,3,5-Trichlorobenzene	13.21	180	393963	20.916	ug/L	100
68) 1,2,4-trichlorobenzene	13.83	180	348856	21.836	ug/L	99
69) Naphthalene	14.08	128	693501	21.693	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	317990	21.603	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 20.620 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

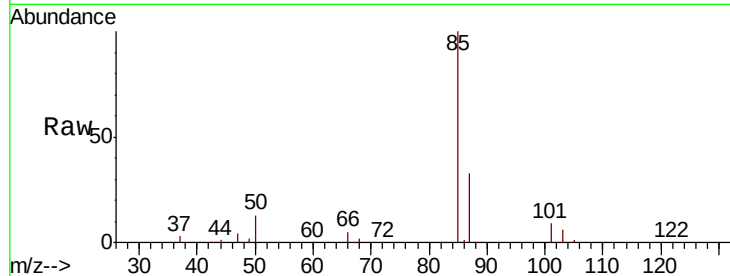
VSTD02002

Tot Ion: 85 Resp: 286454

Ion Ratio Lower Upper

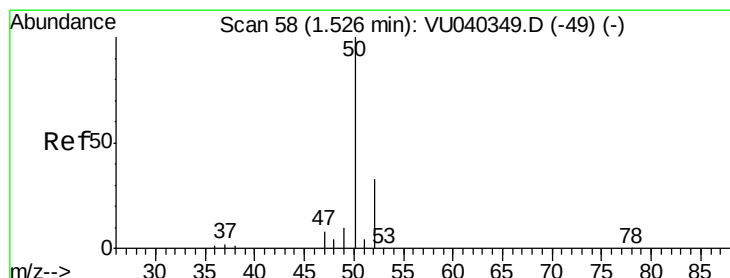
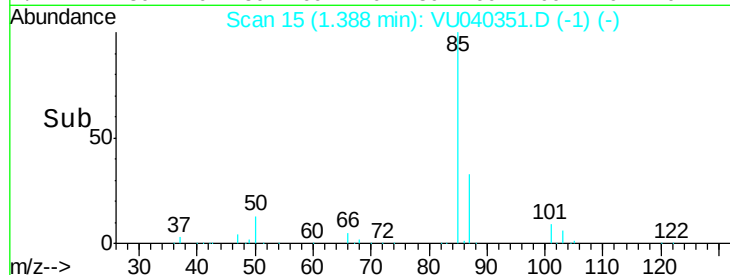
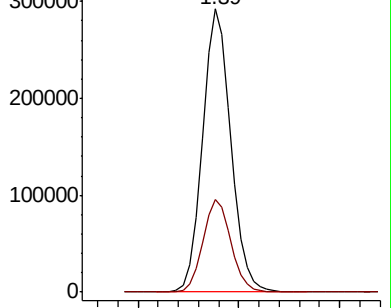
85 100

87 32.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU040351.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU040351.D (-1) (-)



#3

Chloromethane

Concen: 20.037 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040351.D

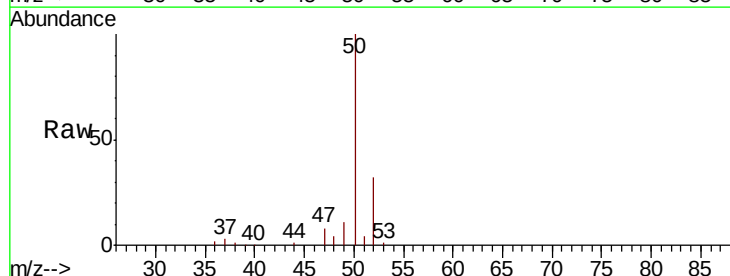
Acq: 29 Sep 2020 10:54

Tgt Ion: 50 Resp: 268886

Ion Ratio Lower Upper

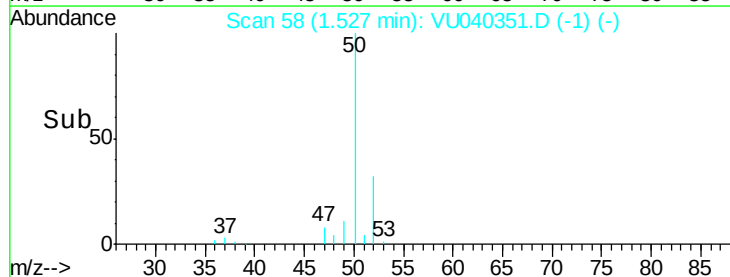
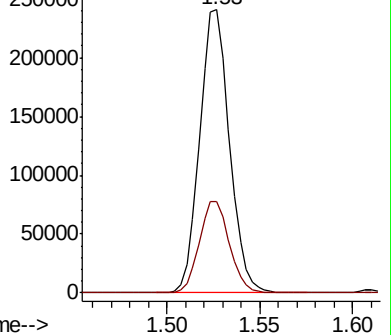
50 100

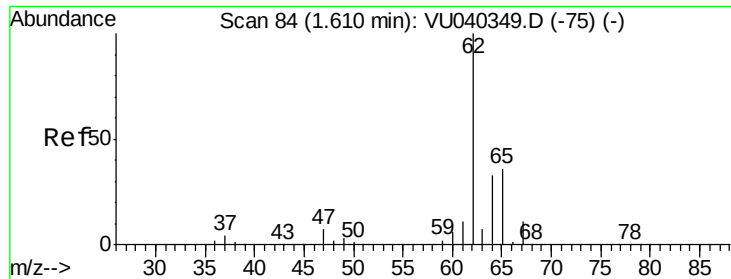
52 32.4 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU040351.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU040351.D (-1) (-)





#5

Vinyl chloride

Concen: 20.415 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampled :

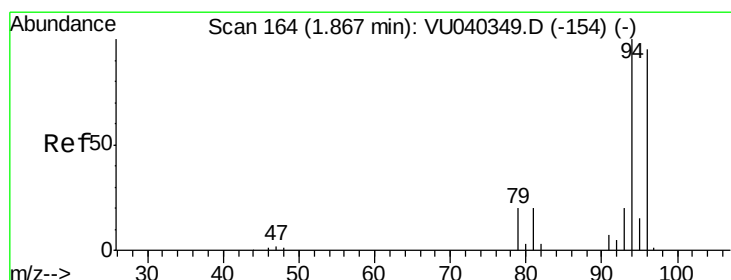
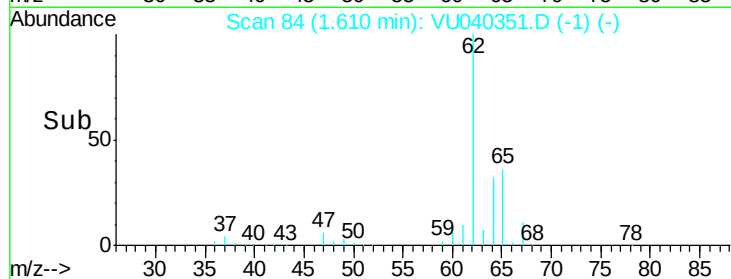
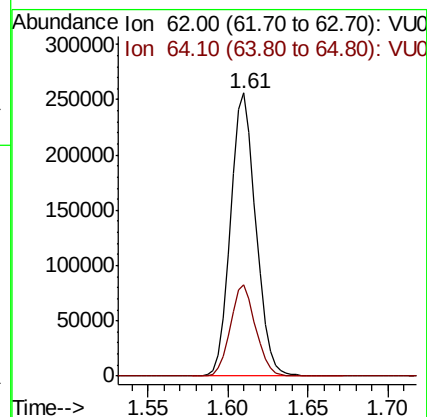
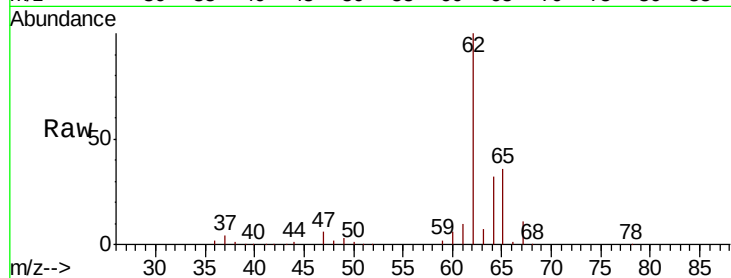
VSTD02002

Tot Ion: 62 Resp: 276084

Ion Ratio Lower Upper

62 100

64 32.1 23.0 42.8



#6

Bromomethane

Concen: 20.186 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040351.D

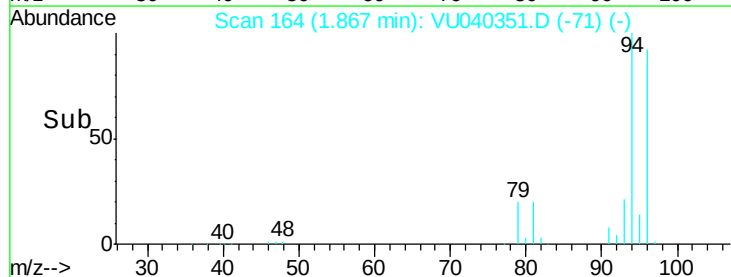
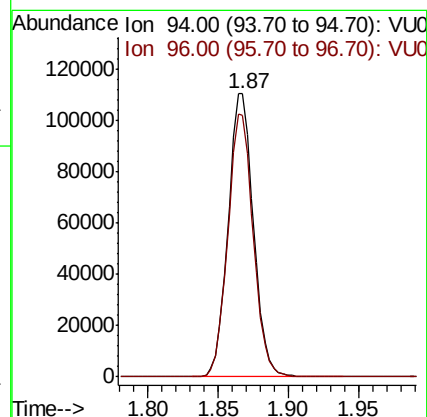
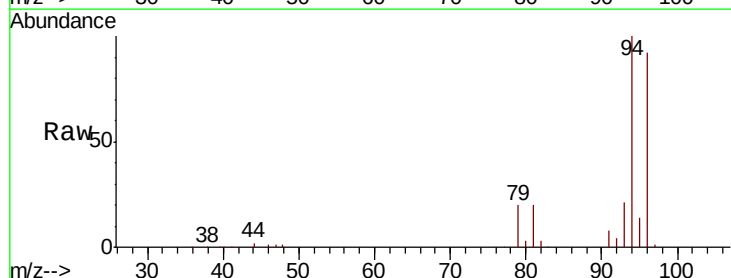
Acq: 29 Sep 2020 10:54

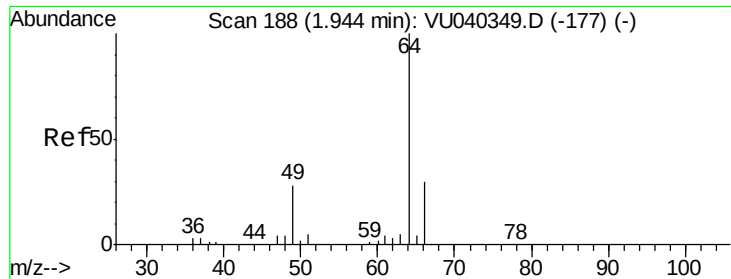
Tgt Ion: 94 Resp: 138248

Ion Ratio Lower Upper

94 100

96 92.3 66.3 123.1





#8

Chloroethane

Concen: 18.247 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

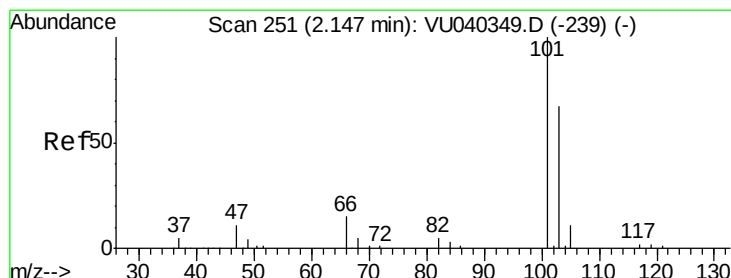
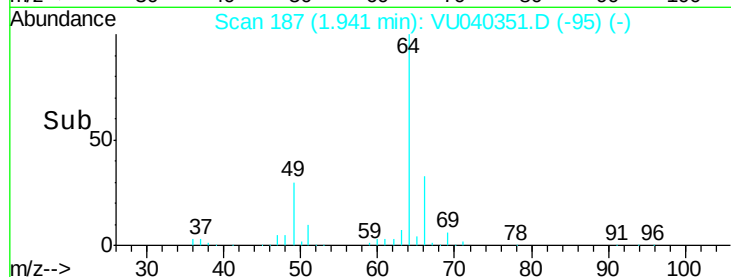
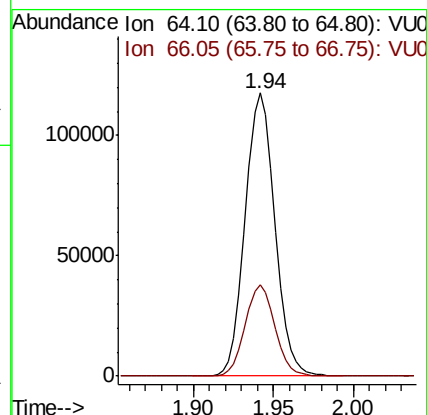
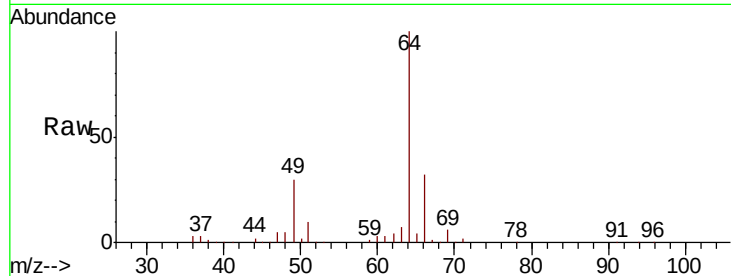
VSTD02002

Tot Ion: 64 Resp: 148268

Ion Ratio Lower Upper

64 100

66 32.5 21.3 39.6



#9

Trichlorofluoromethane

Concen: 19.842 ug/L

RT: 2.14 min Scan# 250

Delta R.T. -0.00 min

Lab File: VU040351.D

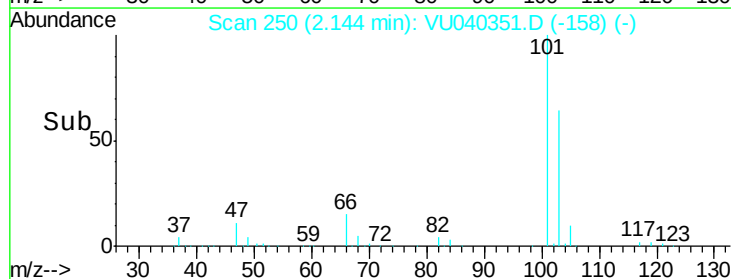
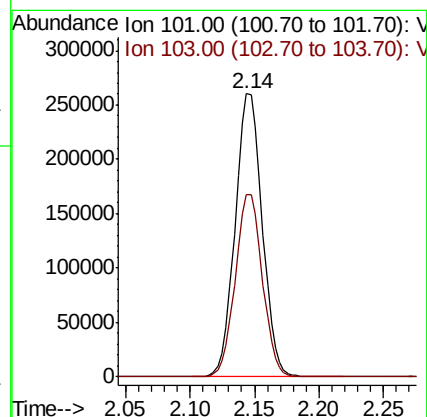
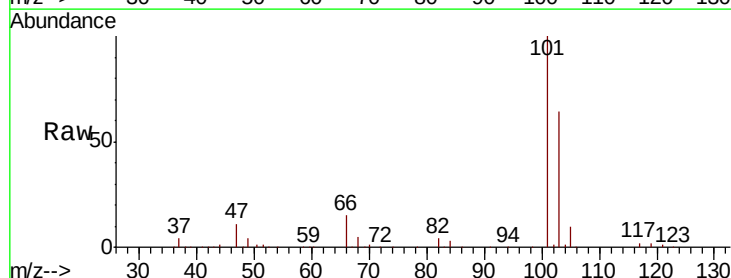
Acq: 29 Sep 2020 10:54

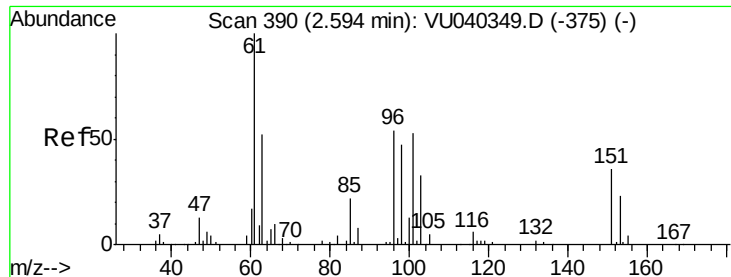
Tgt Ion: 101 Resp: 378855

Ion Ratio Lower Upper

101 100

103 64.5 52.6 79.0





#10

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

Concen: 19.159 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

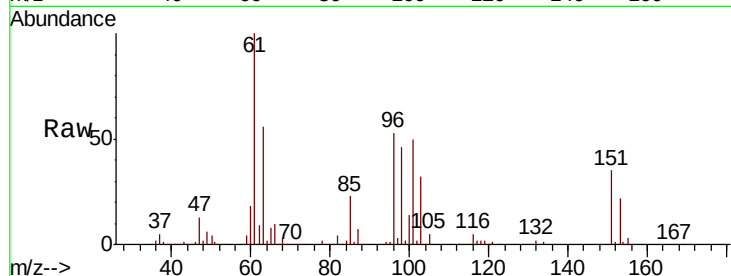
Tot Ion:101 Resp: 237878

Ion Ratio Lower Upper

101 100

85 45.5 35.0 52.6

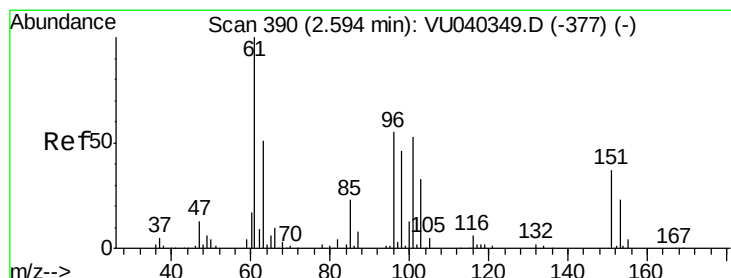
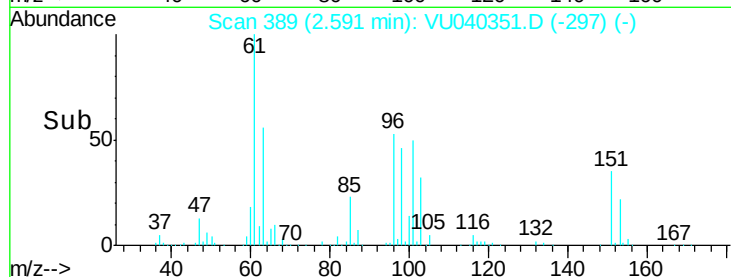
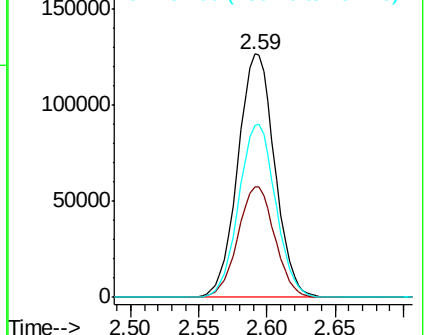
151 71.1 55.4 83.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 20.417 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

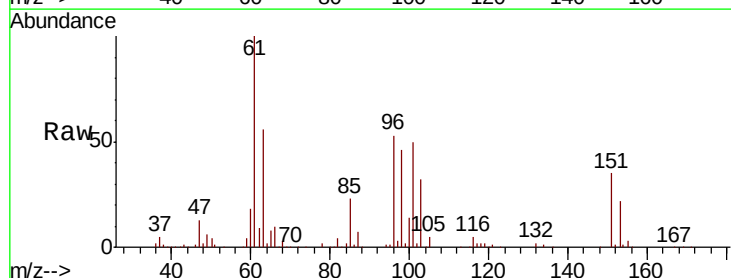
Tgt Ion: 96 Resp: 220036

Ion Ratio Lower Upper

96 100

61 187.5 128.6 238.8

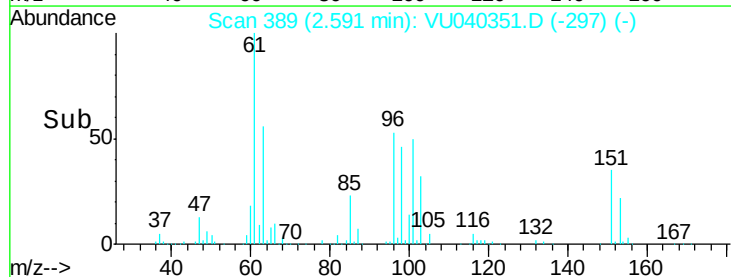
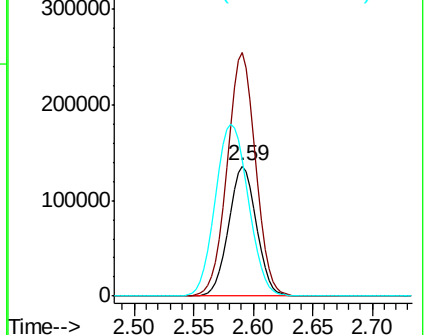
63 104.9 67.8 126.0

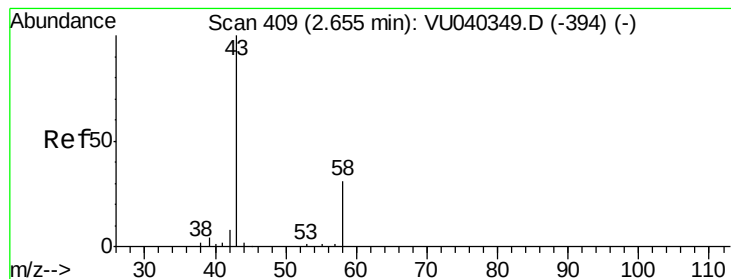


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 202.008 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

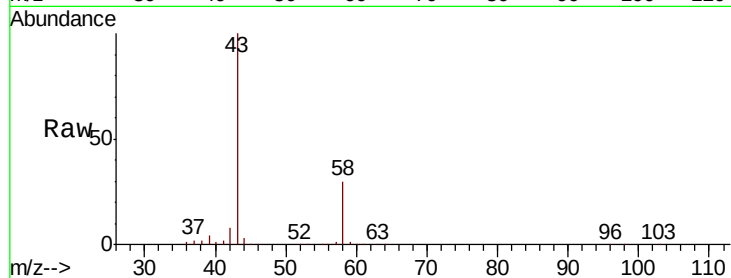
VSTD02002

Tot Ion: 43 Resp: 560029

Ion Ratio Lower Upper

43 100

58 29.8 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU040351.D (-316) (-)

Ion 58.05 (57.75 to 58.75): VU040351.D (-316) (-)

2.66

250000

200000

150000

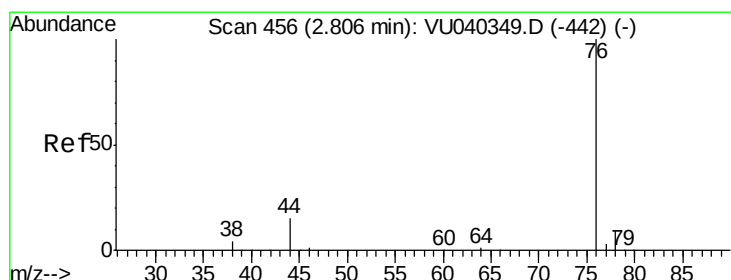
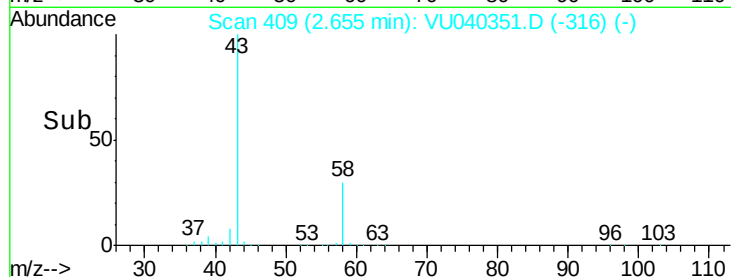
100000

50000

0

Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 19.713 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040351.D

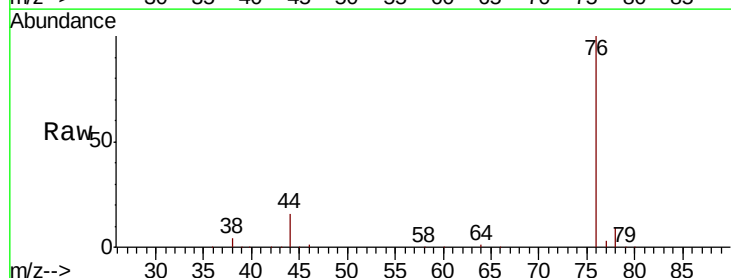
Acq: 29 Sep 2020 10:54

Tgt Ion: 76 Resp: 682230

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU040351.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040351.D (-363) (-)

2.81

400000

300000

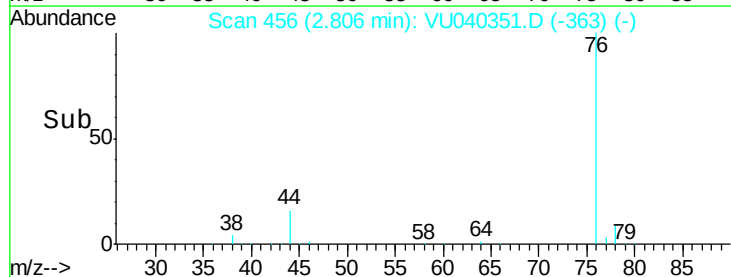
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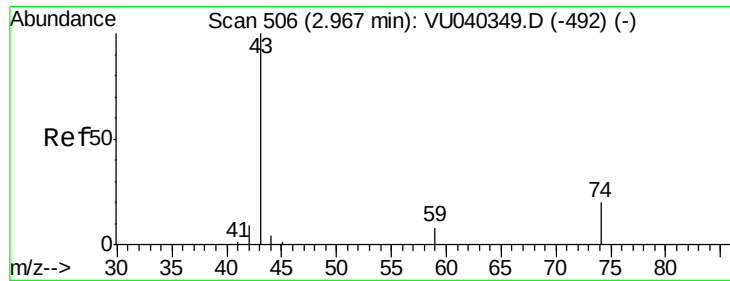
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Time-->

2.75 2.80 2.85 2.90

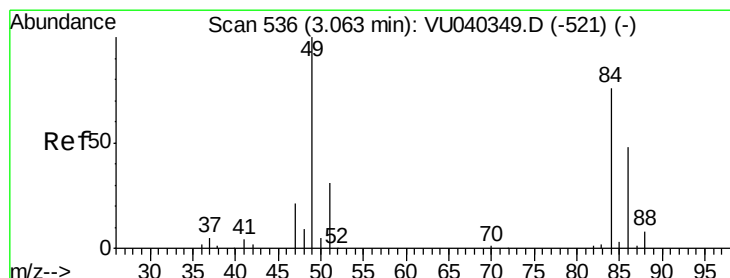
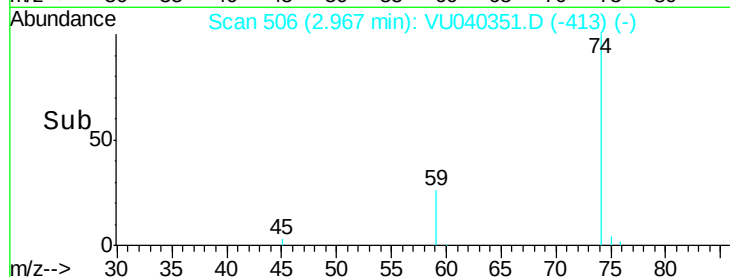
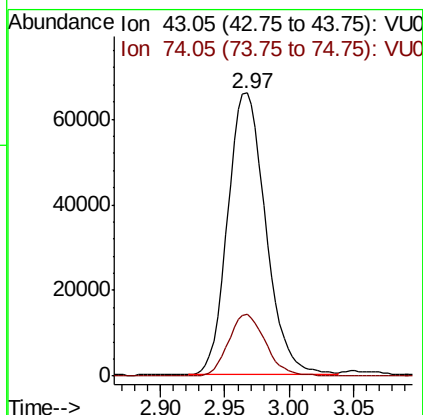
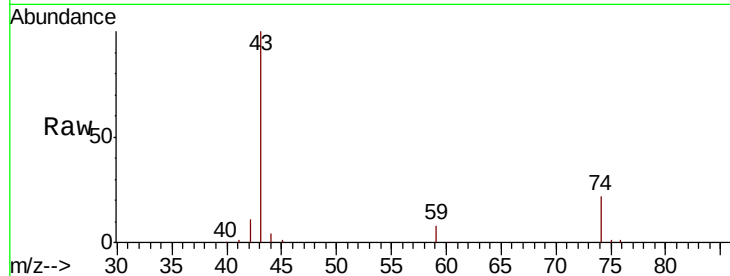




#15
Methvl Acetate
Concen: 18.999 ug/L
RT: 2.97 min Scan# 506
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

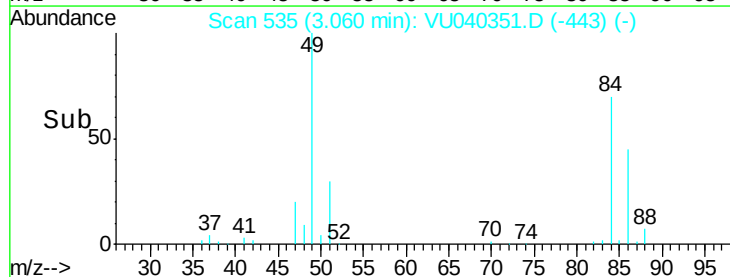
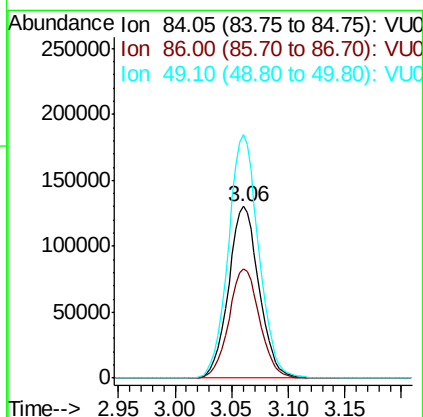
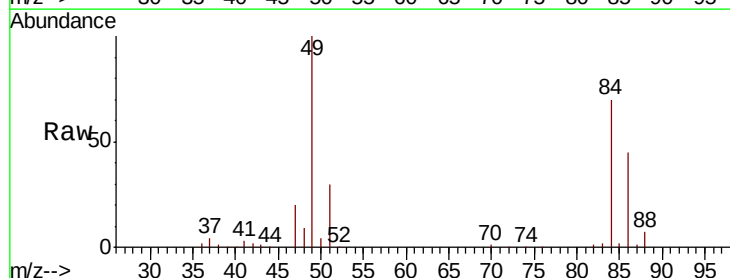
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

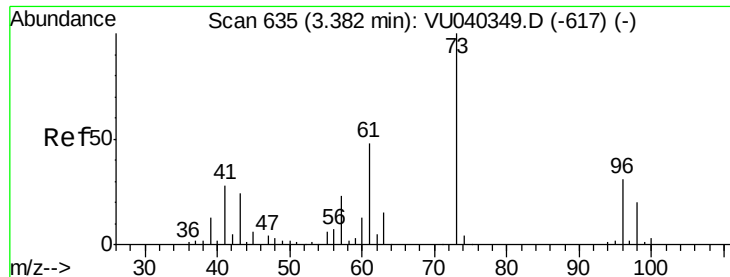
Tot Ion: 43 Resp: 135060
Ion Ratio Lower Upper
43 100
74 21.7 16.3 24.5



#16
Methylene chloride
Concen: 17.268 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Tgt Ion: 84 Resp: 243948
Ion Ratio Lower Upper
84 100
86 63.9 44.4 82.5
49 142.1 92.2 171.2

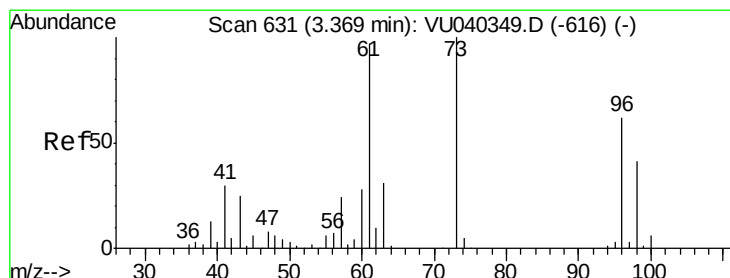
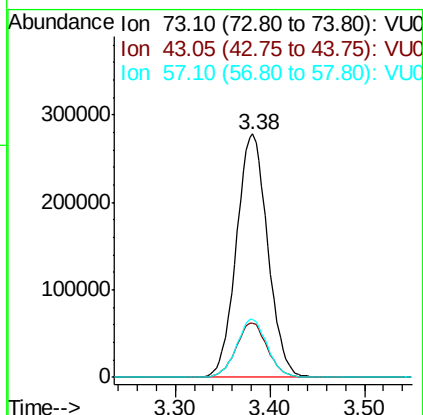
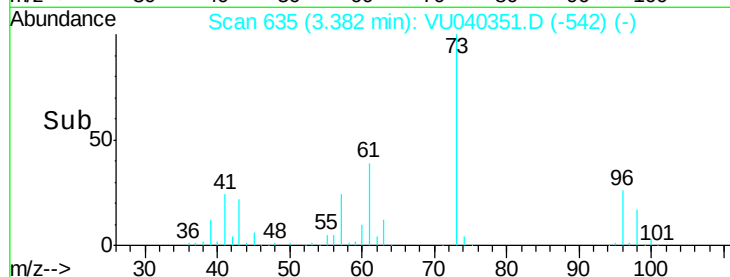
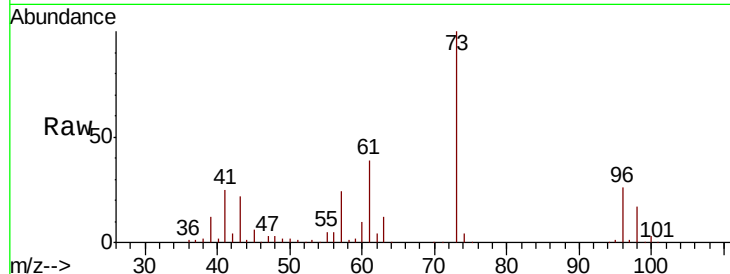




#17
Methyl tert-butyl Ether
Concen: 20.010 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

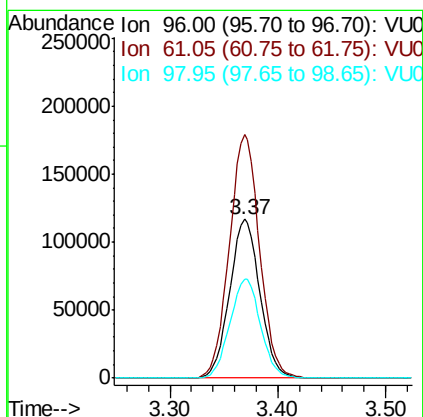
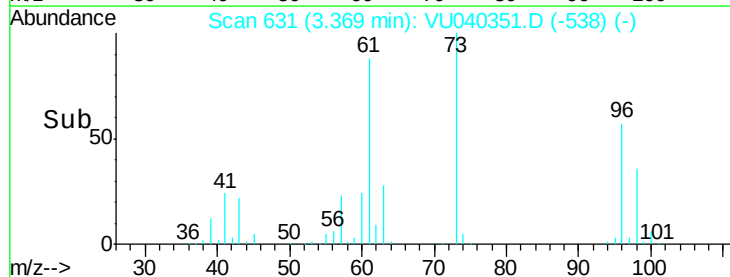
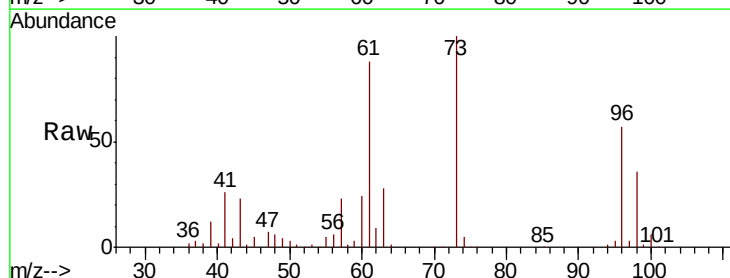
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

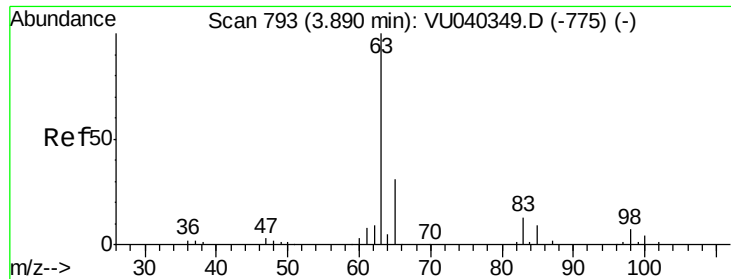
Tot Ion: 73 Resp: 638627
Ion Ratio Lower Upper
73 100
43 22.2 19.0 28.4
57 23.4 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 19.667 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Tgt Ion: 96 Resp: 228417
Ion Ratio Lower Upper
96 100
61 153.2 109.3 203.1
98 62.3 45.8 85.0





#19

1,1-Dichloroethane

Concen: 19.221 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

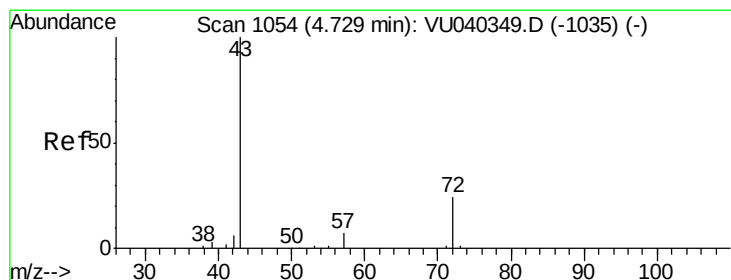
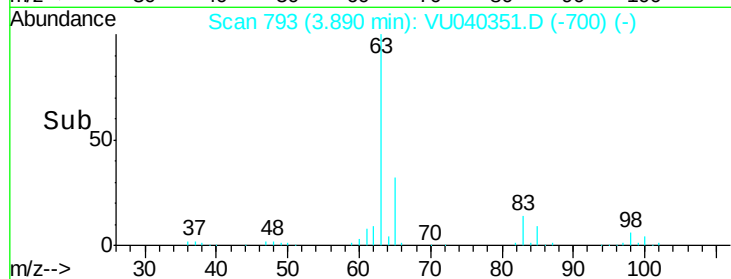
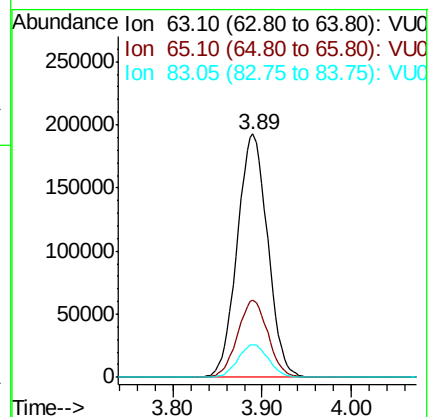
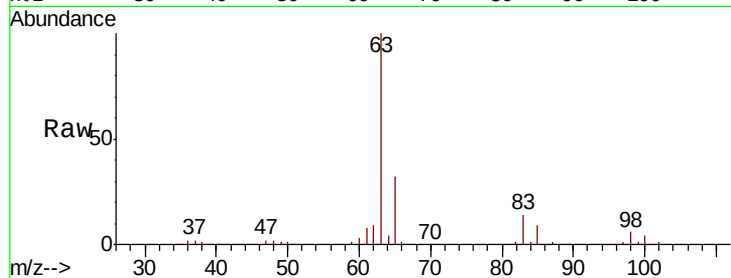
Tot Ion: 63 Resp: 456949

Ion Ratio Lower Upper

63 100

65 31.8 21.7 40.3

83 13.5 9.1 16.9



#21

2-Butanone

Concen: 211.952 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VU040351.D

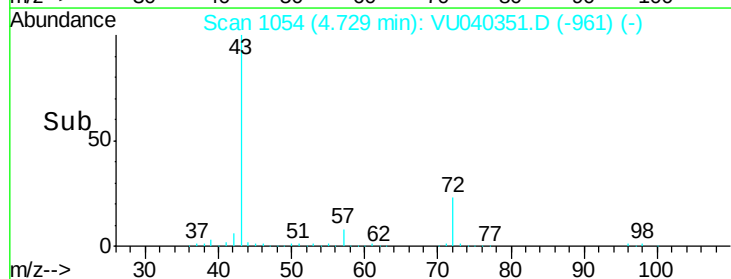
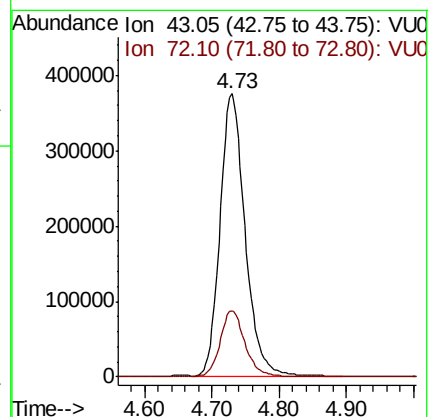
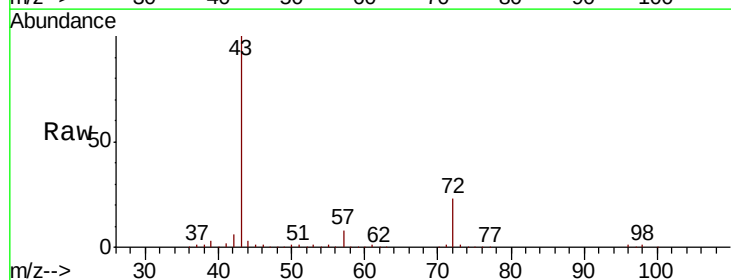
Acq: 29 Sep 2020 10:54

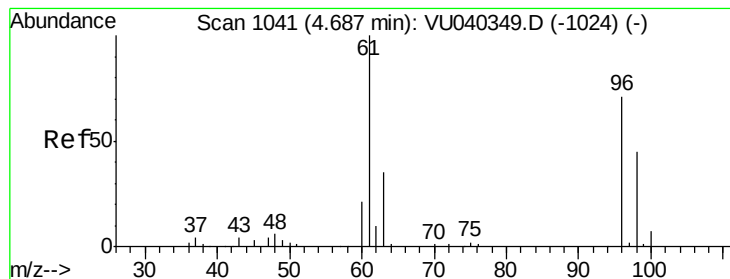
Tgt Ion: 43 Resp: 971368

Ion Ratio Lower Upper

43 100

72 23.6 12.0 36.1





#22

cis-1,2-Dichloroethene

Concen: 20.241 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

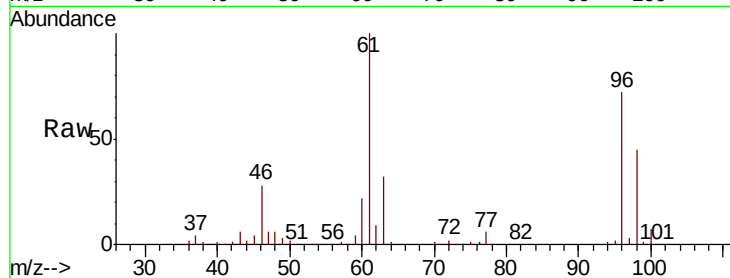
Tot Ion: 96 Resp: 253968

Ion Ratio Lower Upper

96 100

61 139.2 99.3 184.5

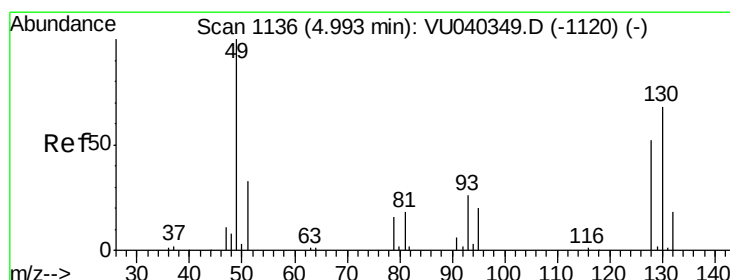
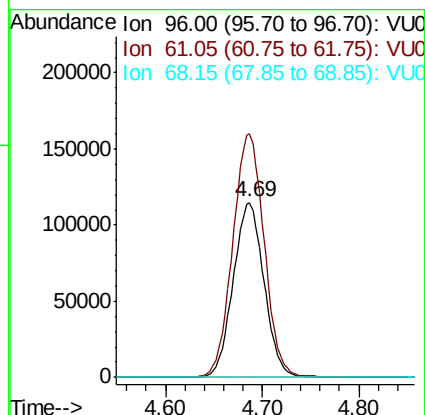
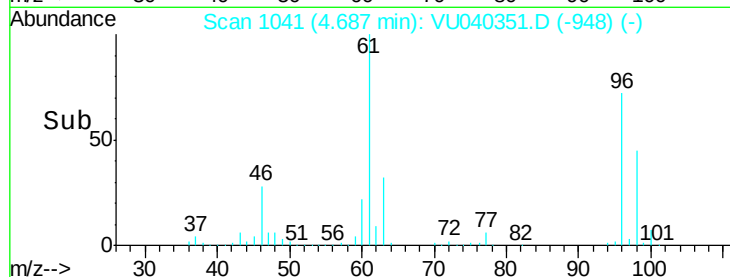
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040351.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU040351.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU040351.D (-948) (-)



#23

Bromochloromethane

Concen: 20.743 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Tgt Ion: 128 Resp: 113976

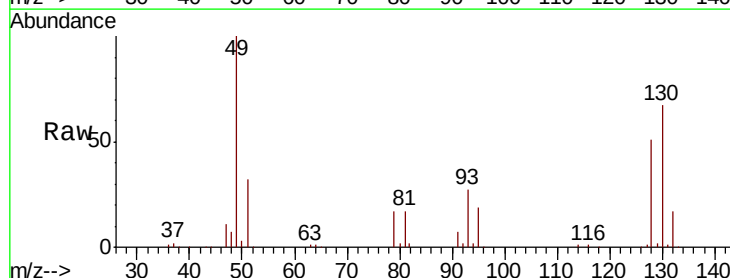
Ion Ratio Lower Upper

128 100

49 194.3 134.6 250.0

130 130.0 91.1 169.1

51 62.2 50.6 75.8

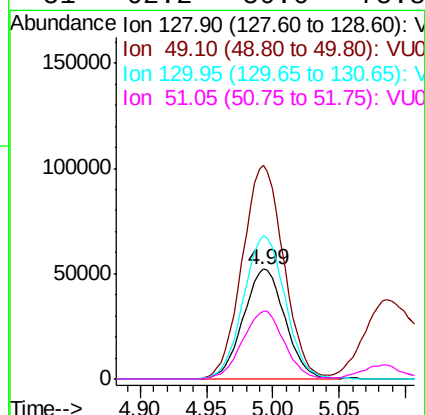
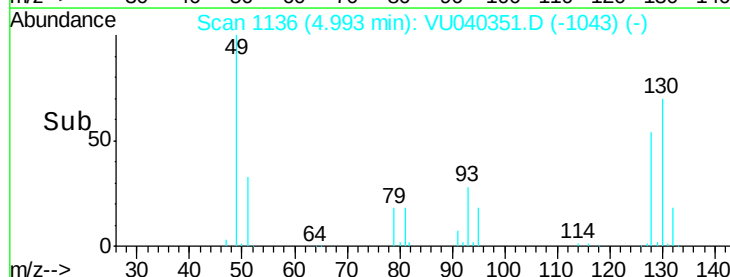


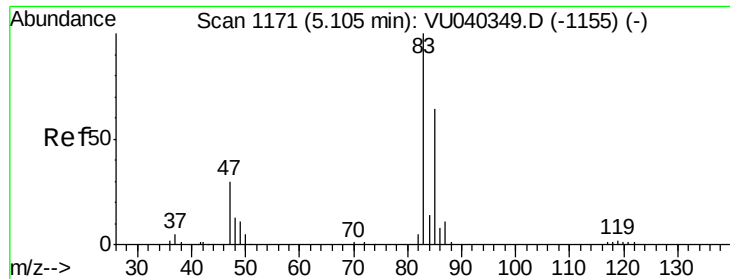
Abundance Ion 127.90 (127.60 to 128.60): VU040351.D (-1043) (-)

Ion 49.10 (48.80 to 49.80): VU040351.D (-1043) (-)

Ion 129.95 (129.65 to 130.65): VU040351.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VU040351.D (-1043) (-)

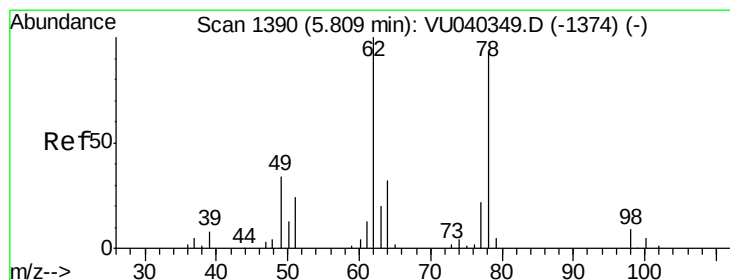
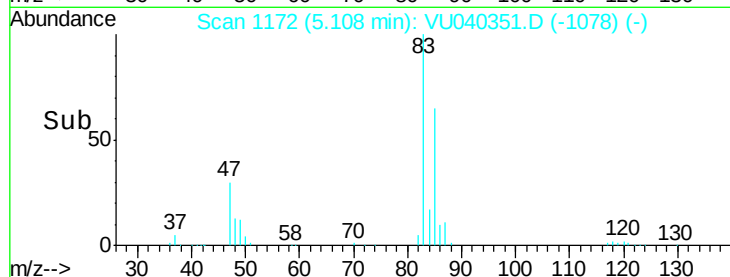
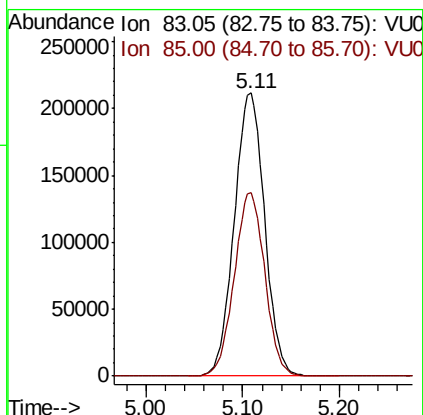
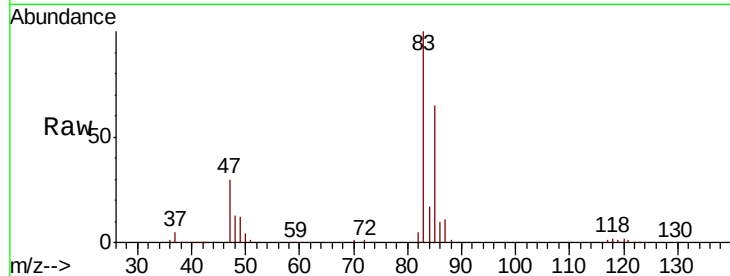




#25
Chloroform
Concen: 18.983 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

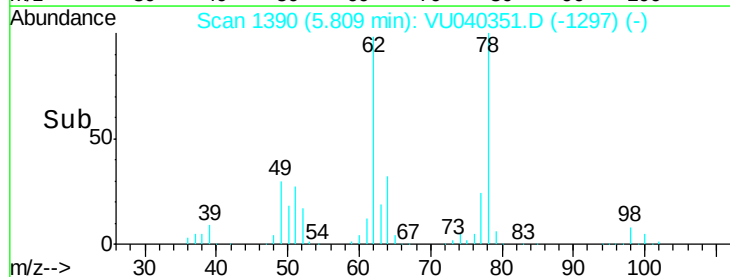
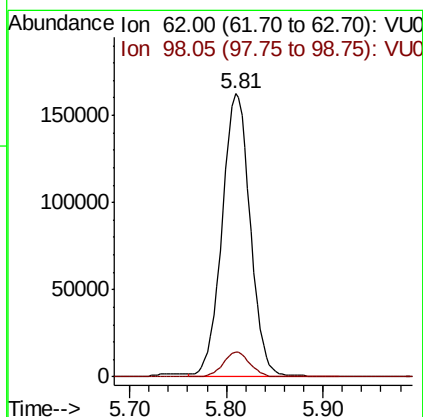
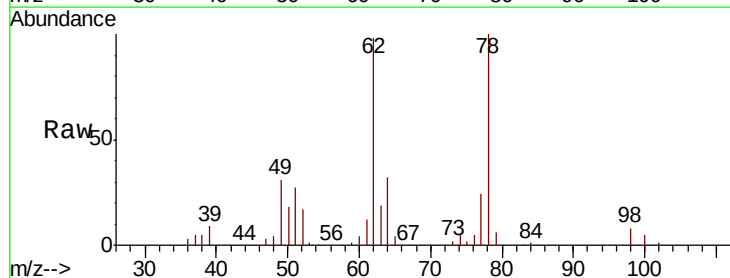
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

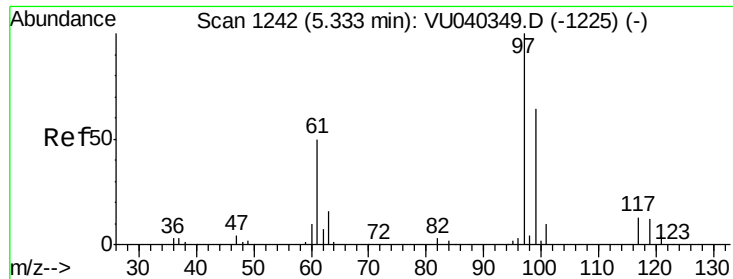
Tot Ion: 83 Resp: 462236
Ion Ratio Lower Upper
83 100
85 64.7 44.6 82.8



#27
1,2-Dichloroethane
Concen: 18.684 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Tgt Ion: 62 Resp: 327773
Ion Ratio Lower Upper
62 100
98 8.7 7.5 11.3

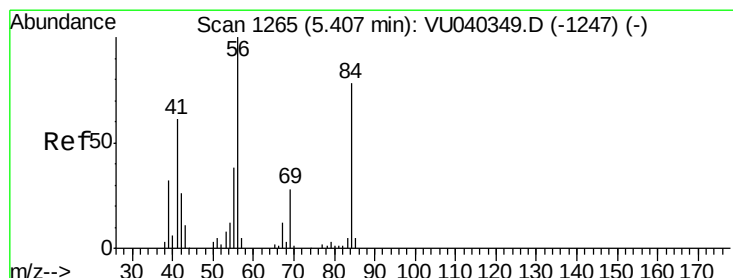
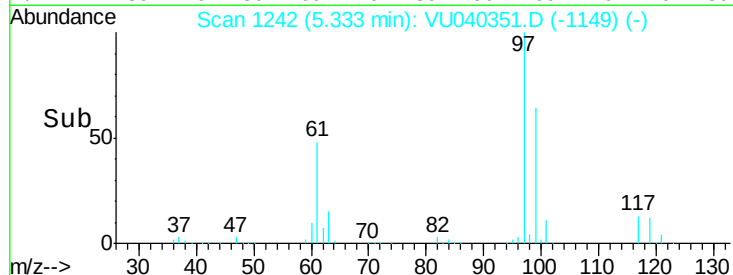
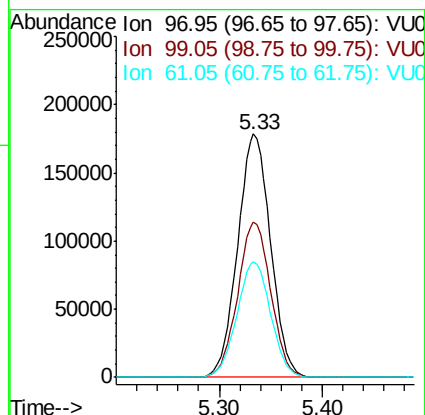
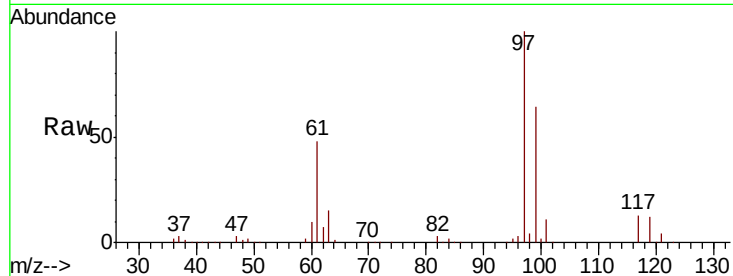




#29
 1,1,1-Trichloroethane
 Concen: 19.061 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

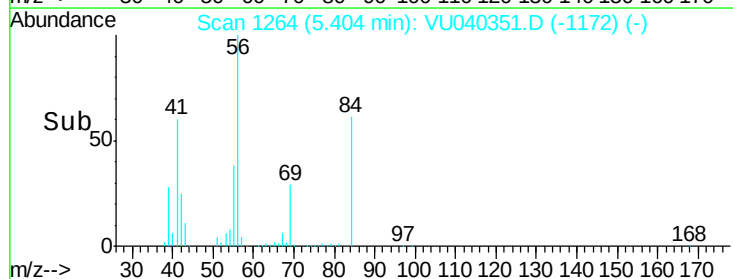
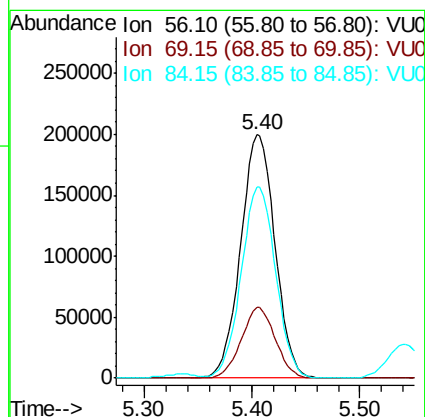
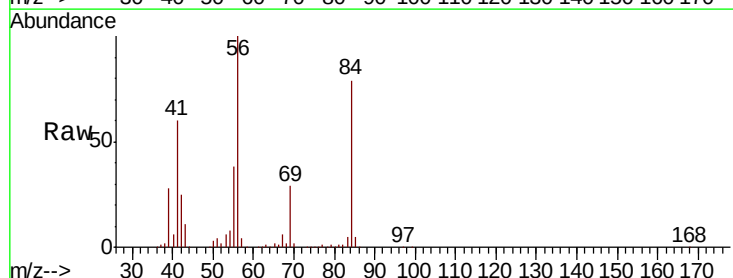
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

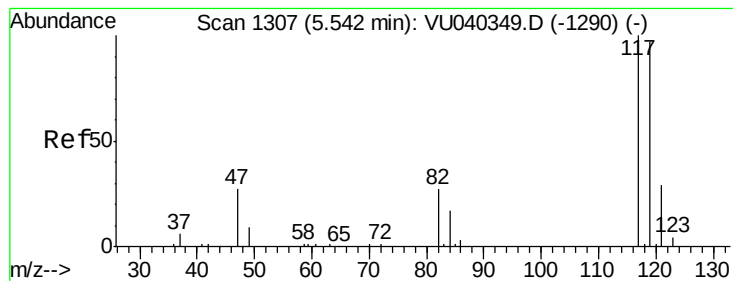
Tot Ion: 97 Resp: 395871
 Ion Ratio Lower Upper
 97 100
 99 64.4 50.7 76.1
 61 48.8 39.7 59.5



#30
 Cyclohexane
 Concen: 21.728 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Tgt Ion: 56 Resp: 442062
 Ion Ratio Lower Upper
 56 100
 69 28.8 23.3 34.9
 84 79.0 64.2 96.4





#31

Carbon tetrachloride

Concen: 19.272 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

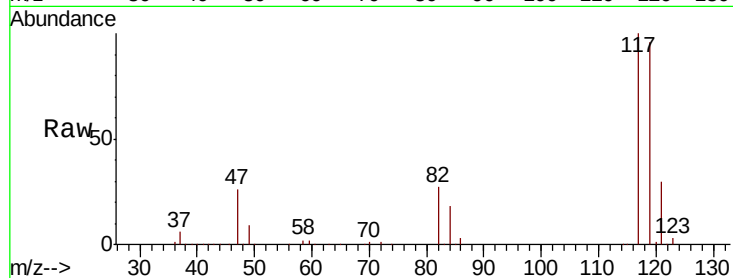
VSTD02002

Tot Ion:117 Resp: 344189

Ion Ratio Lower Upper

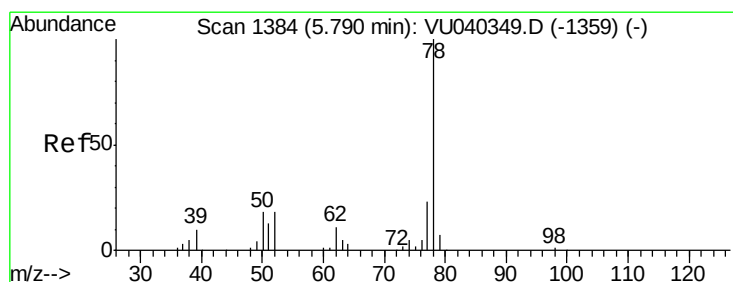
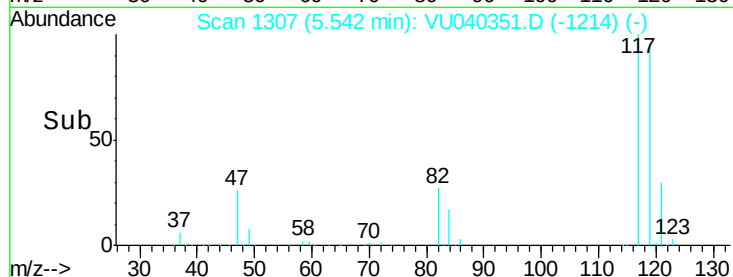
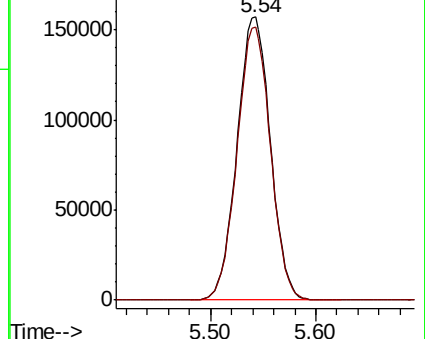
117 100

119 96.5 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.329 ug/L

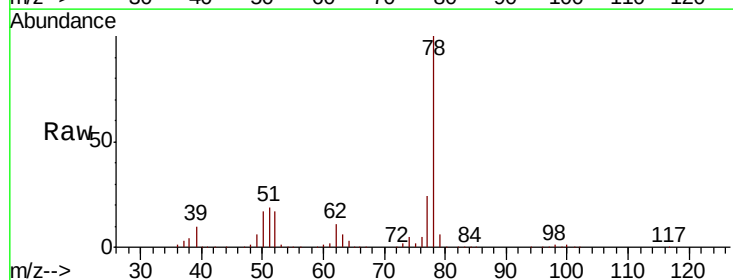
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

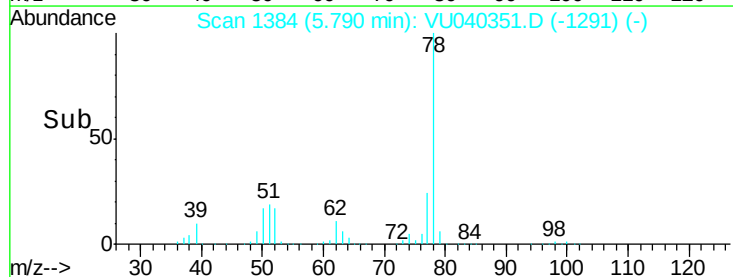
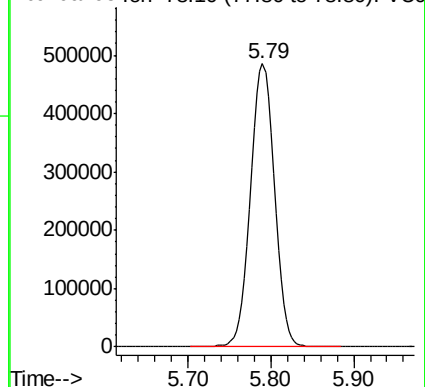
Lab File: VU040351.D

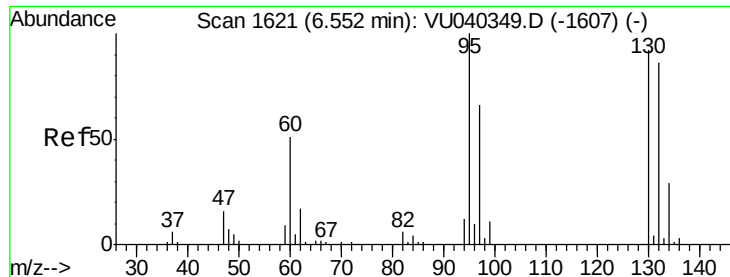
Acq: 29 Sep 2020 10:54

Tgt Ion: 78 Resp: 978017



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 19.845 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

Tot Ion: 95 Resp: 254171

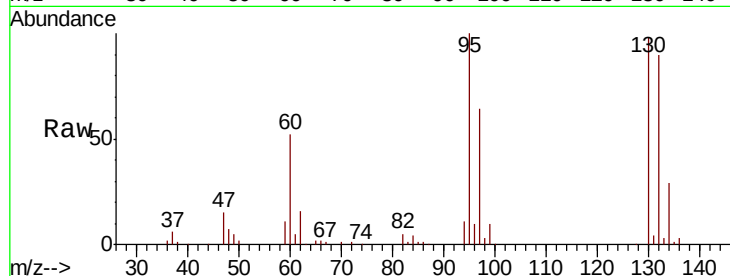
Ion Ratio Lower Upper

95 100

97 64.5 46.3 85.9

132 90.1 60.5 112.3

130 98.0 64.3 119.3

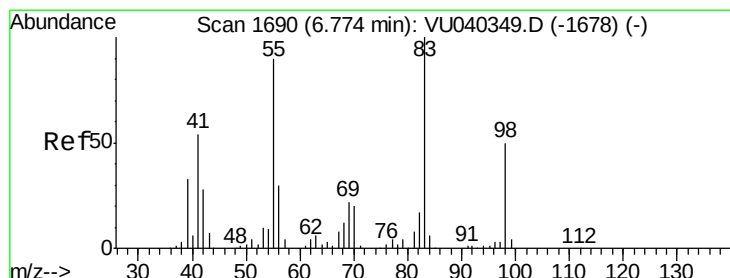
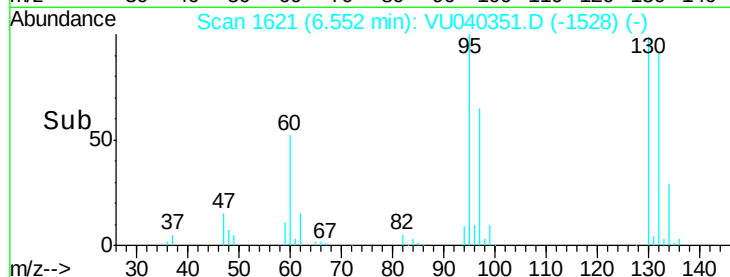
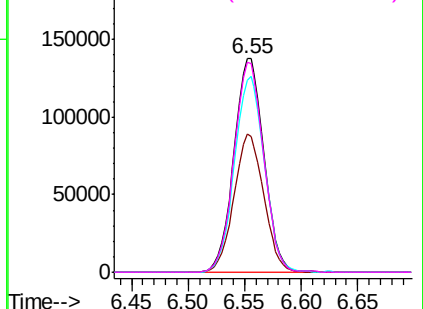


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 21.333 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

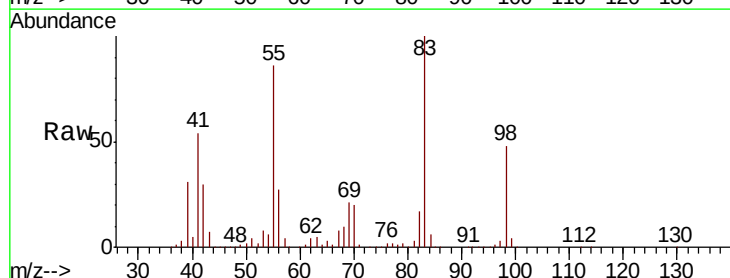
Tgt Ion: 83 Resp: 417540

Ion Ratio Lower Upper

83 100

55 85.7 71.4 107.2

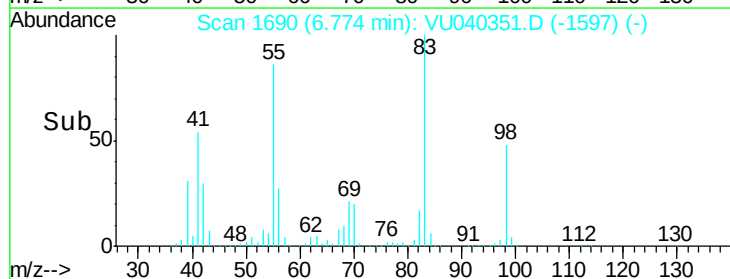
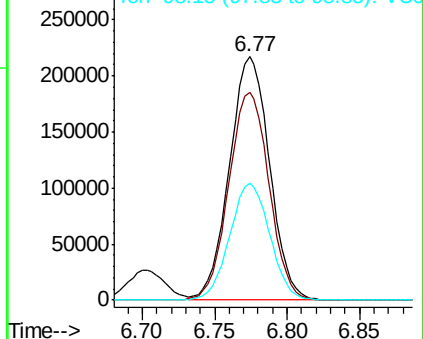
98 47.9 38.5 57.7

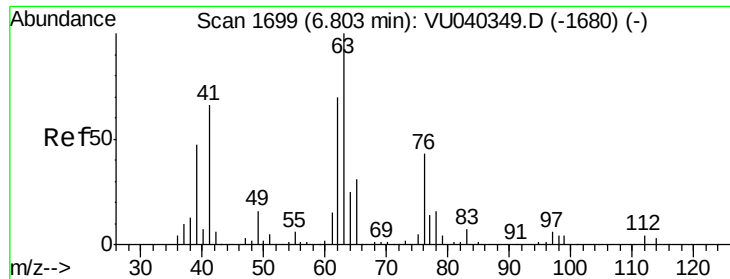


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

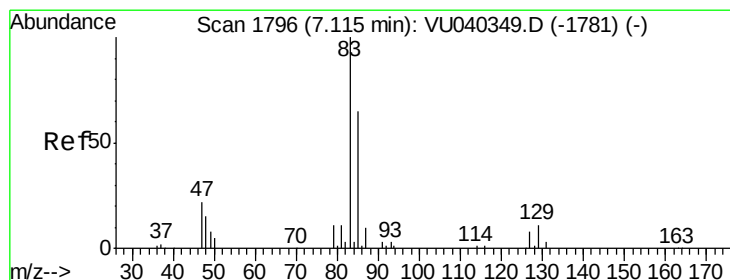
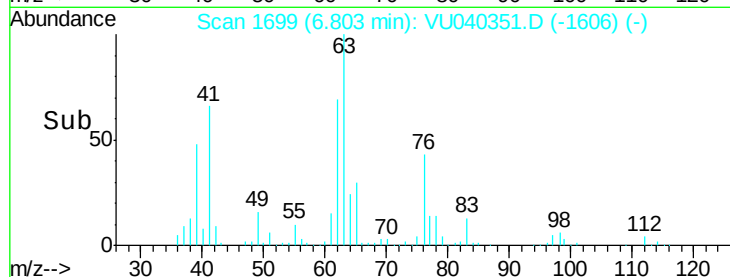
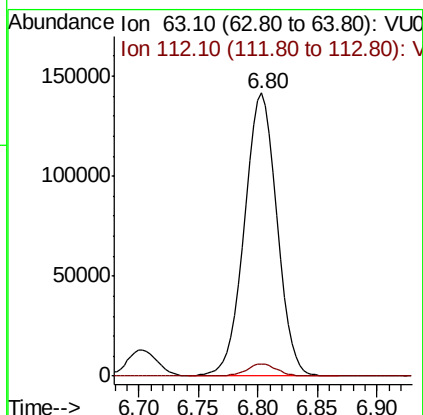
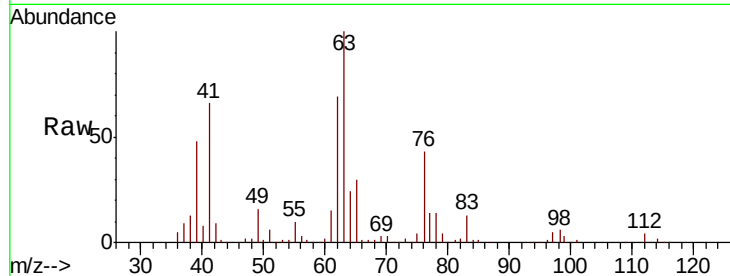




#37
 1,2-Dichloropropane
 Concen: 20.655 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

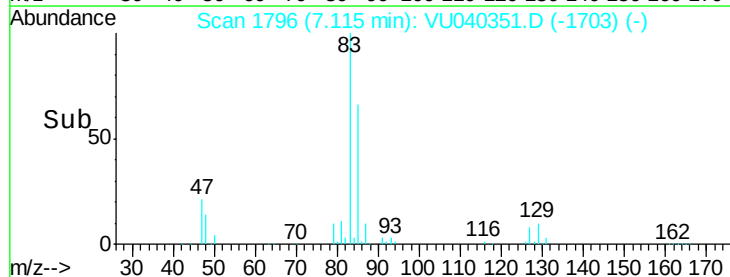
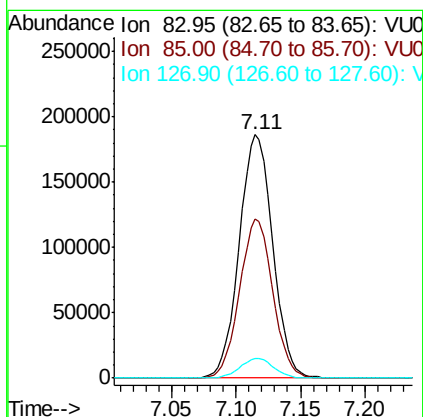
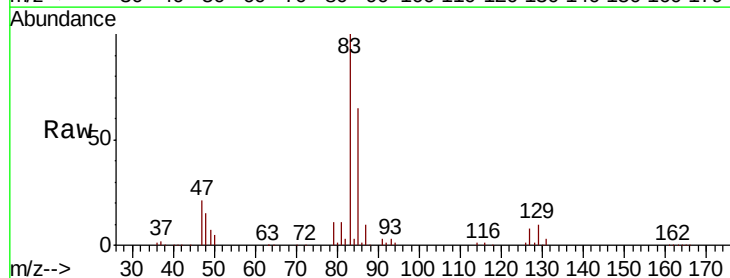
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

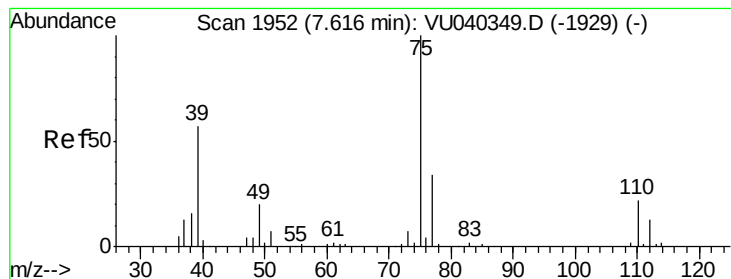
Tot Ion: 63 Resp: 267302
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#38
 Bromodichloromethane
 Concen: 19.174 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Tgt Ion: 83 Resp: 337177
 Ion Ratio Lower Upper
 83 100
 85 65.4 45.1 83.9
 127 8.0 6.6 9.8



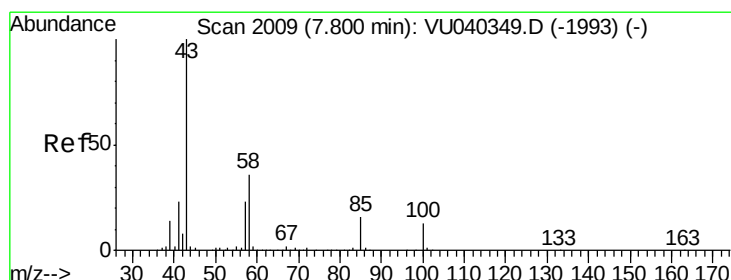
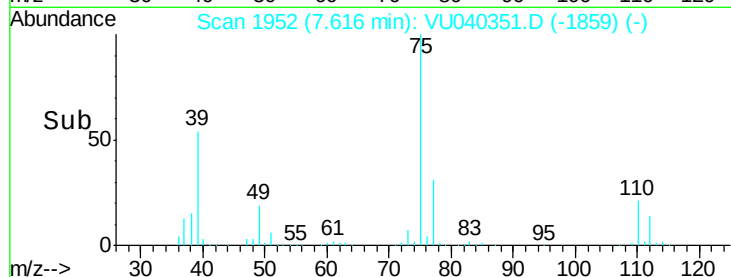
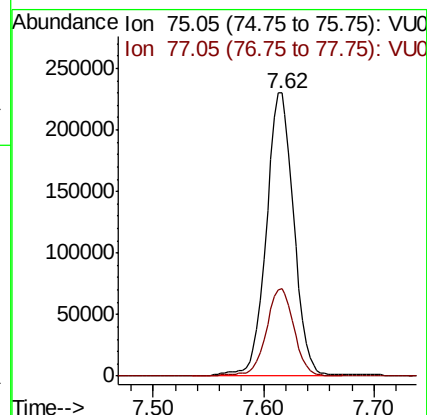
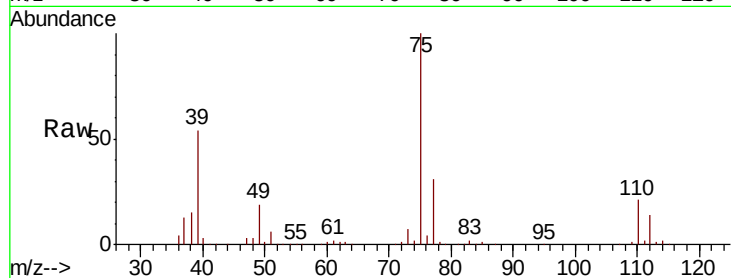


#39

cis-1,3-Dichloropropene
Concen: 21.235 ug/L
RT: 7.62 min Scan# 1952
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

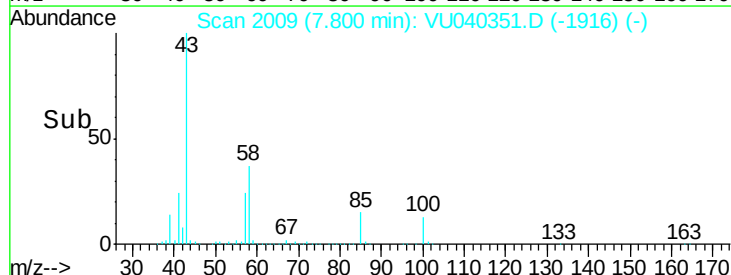
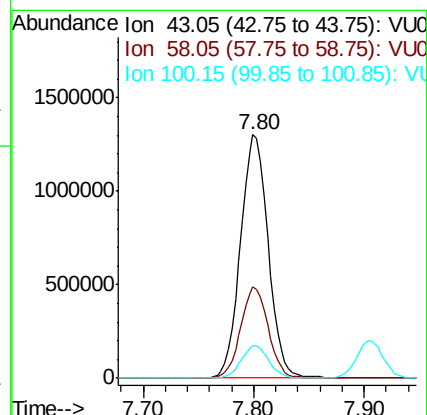
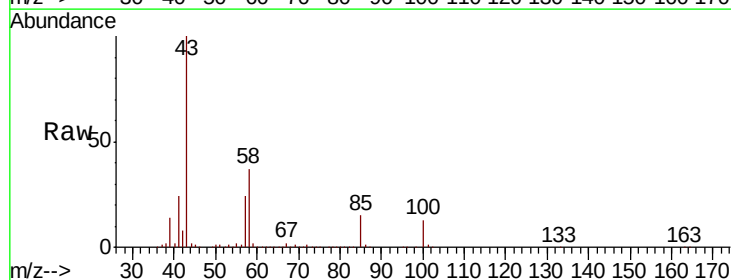
Tot Ion: 75 Resp: 399320
Ion Ratio Lower Upper
75 100
77 31.0 23.5 43.7

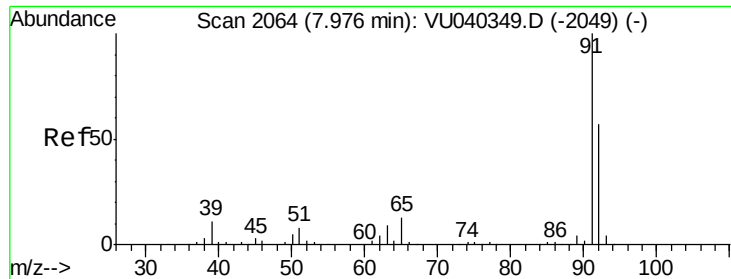


#40

4-Methyl-2-pentanone
Concen: 214.198 ug/L
RT: 7.80 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Tgt Ion: 43 Resp: 2269499
Ion Ratio Lower Upper
43 100
58 37.1 29.2 43.8
100 13.2 10.3 15.5





#42

Toluene

Concen: 20.679 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

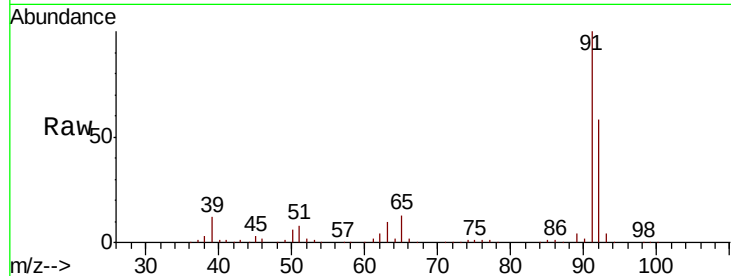
Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

Tot Ion: 91 Resp: 1022971

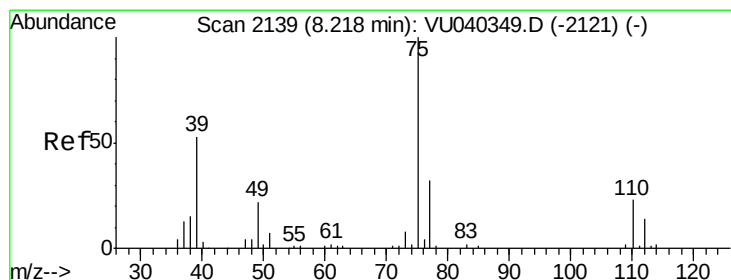
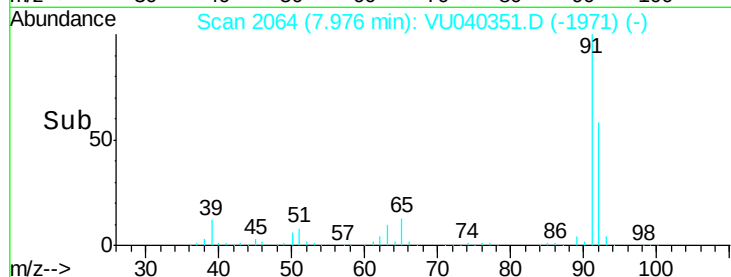
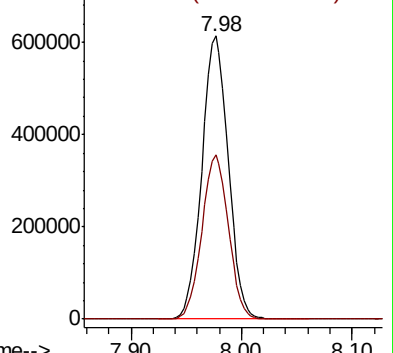
Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 20.916 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040351.D

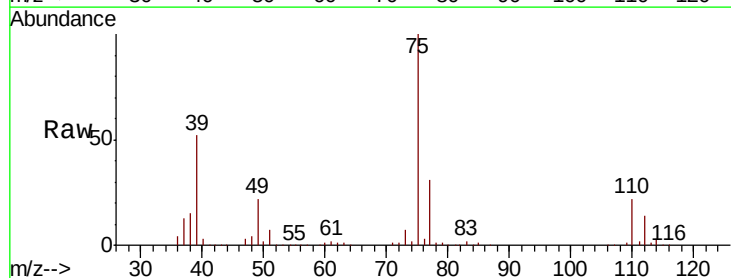
Acq: 29 Sep 2020 10:54

Tgt Ion: 75 Resp: 365442

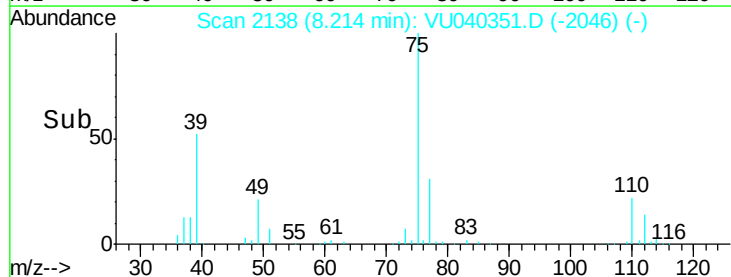
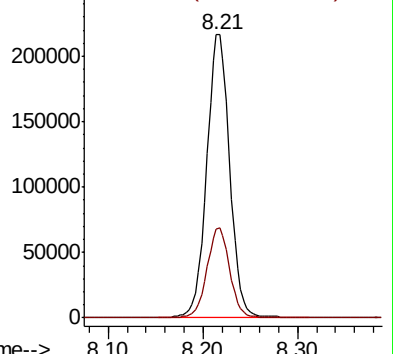
Ion Ratio Lower Upper

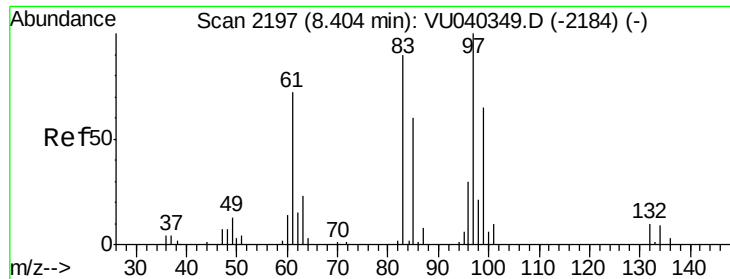
75 100

77 31.5 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0

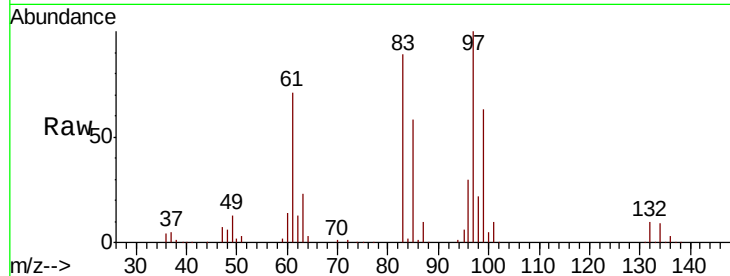




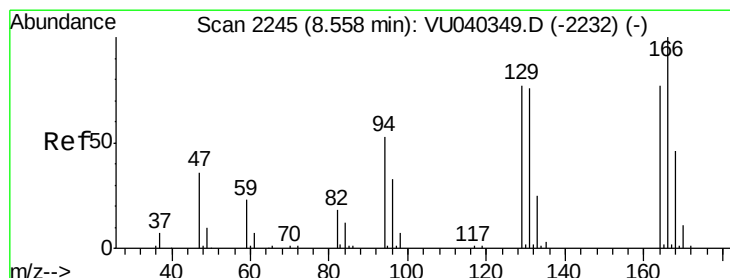
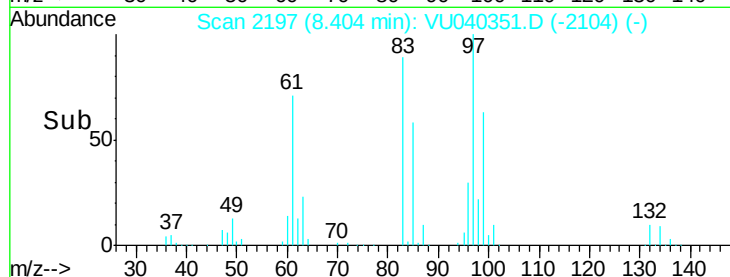
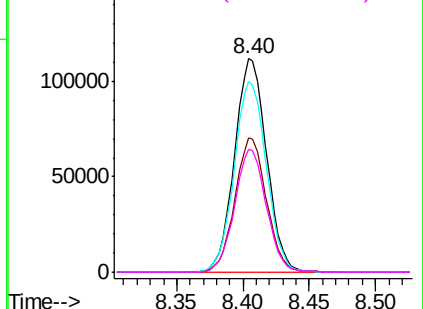
#45
 1,1,2-Trichloroethane
 Concen: 20.019 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion:	97	Resp:	187946
Ion	Ratio	Lower	Upper
97	100		
99	62.7	45.8	85.0
83	89.3	62.9	116.9
85	57.7	41.7	77.5

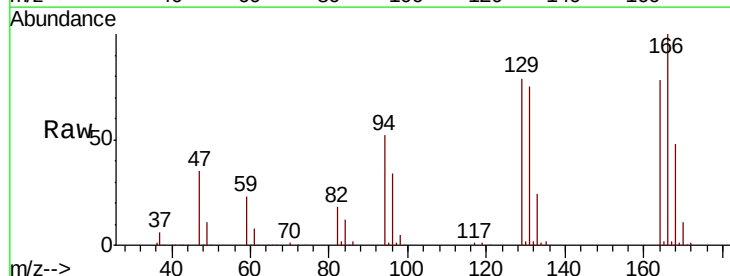


Abundance Ion 96.95 (96.65 to 97.65): VU040351.D (-2104) (-)

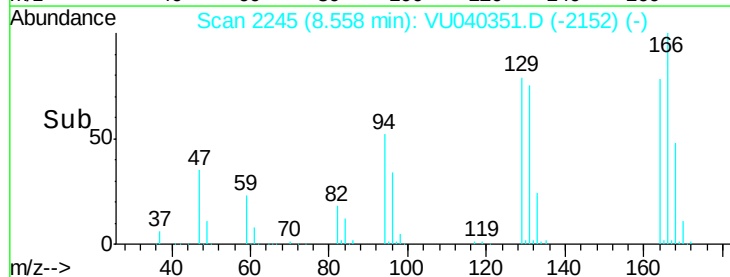
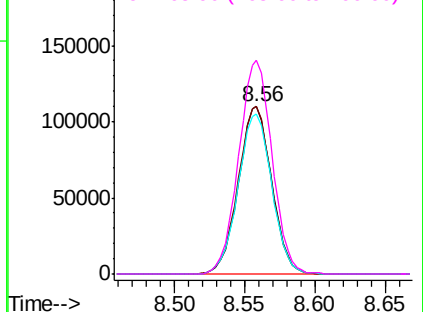


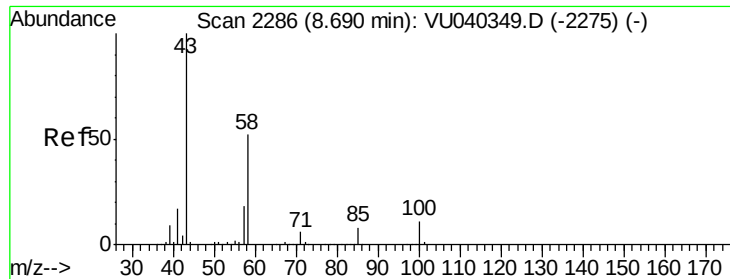
#47
 Tetrachloroethene
 Concen: 21.272 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Tgt Ion:	164	Resp:	181758
Ion	Ratio	Lower	Upper
164	100		
129	100.1	70.3	130.7
131	95.4	69.2	128.6
166	127.5	91.1	169.3



Abundance Ion 163.90 (163.60 to 164.60): VU040351.D (-2152) (-)

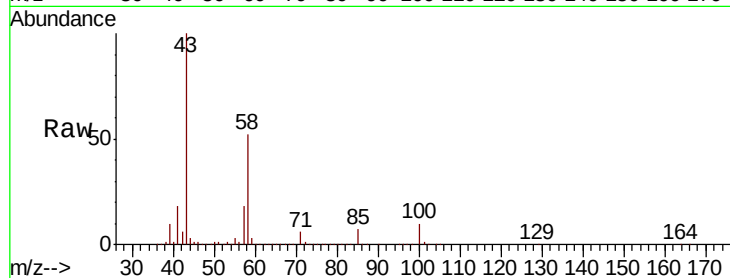




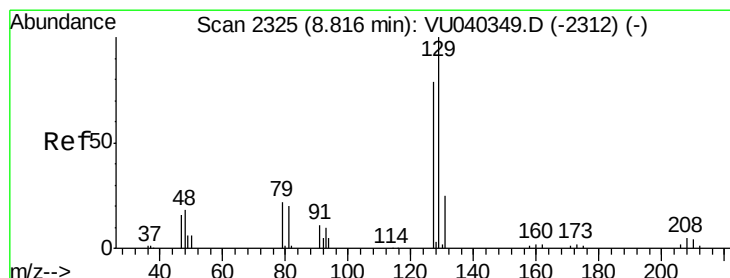
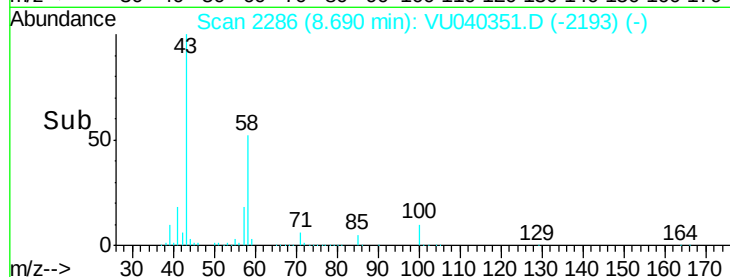
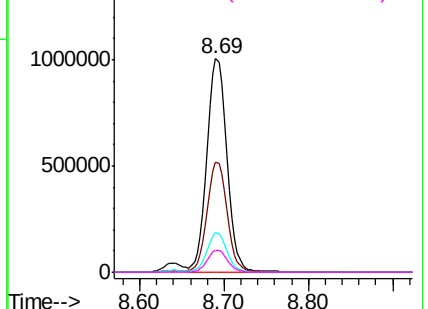
#48
2-Hexanone
Concen: 216.145 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

Tot Ion: 43 Resp: 1664470
Ion Ratio Lower Upper
43 100
58 51.3 41.0 61.4
57 18.0 14.6 22.0
100 10.4 8.2 12.4

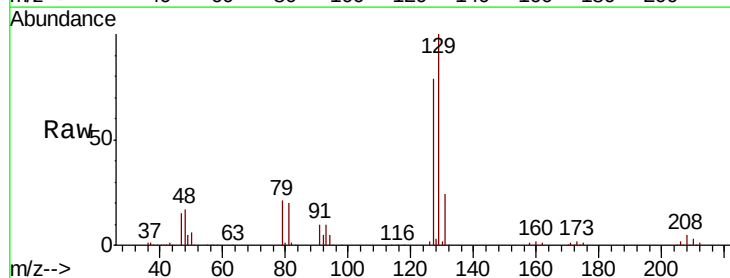


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

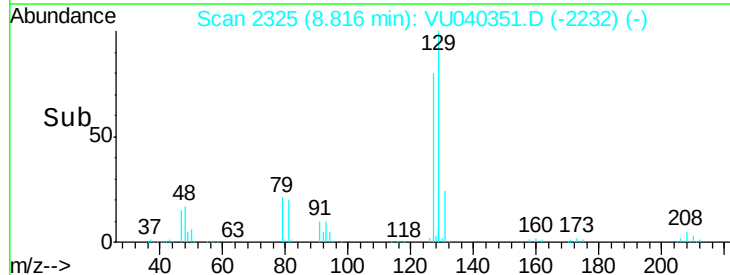
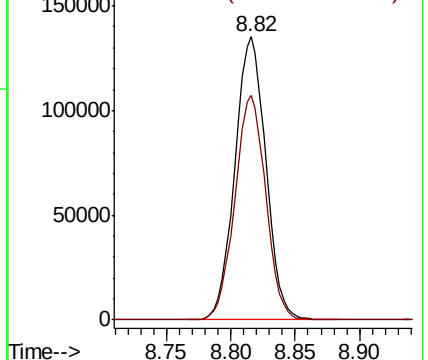


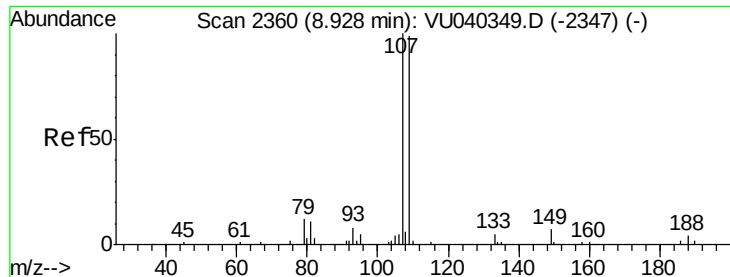
#49
Dibromochloromethane
Concen: 20.051 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Tgt Ion: 129 Resp: 226069
Ion Ratio Lower Upper
129 100
127 79.5 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

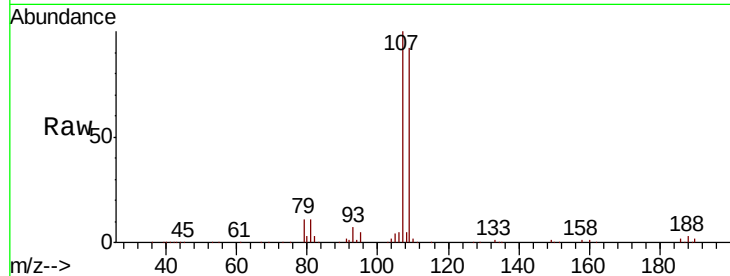




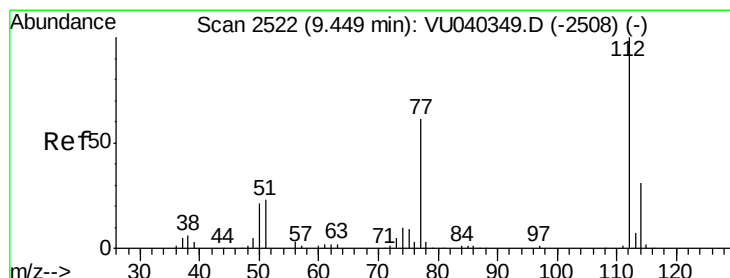
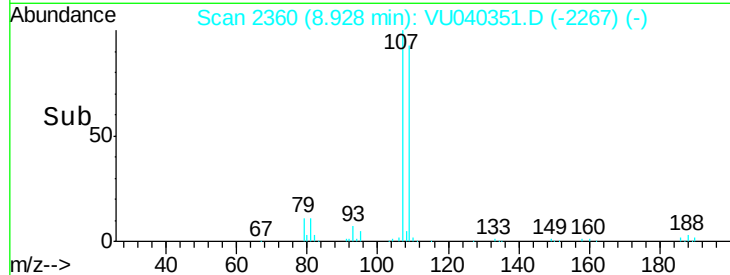
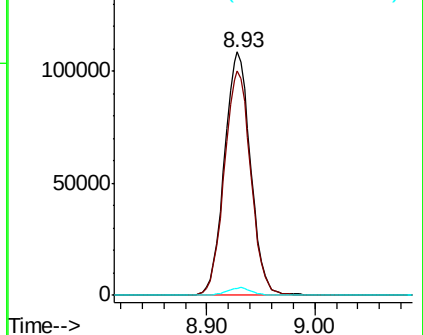
#50
 1,2-Dibromoethane
 Concen: 20.154 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.4	69.4	128.8
188	3.0	3.3	4.9#

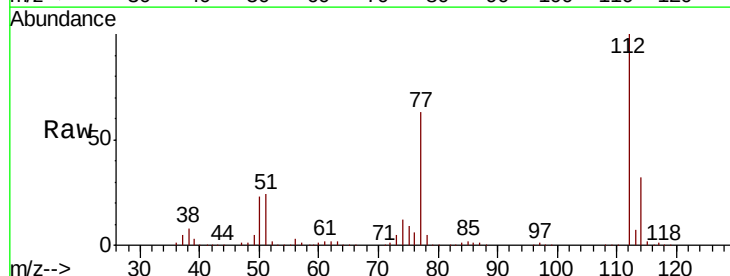


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

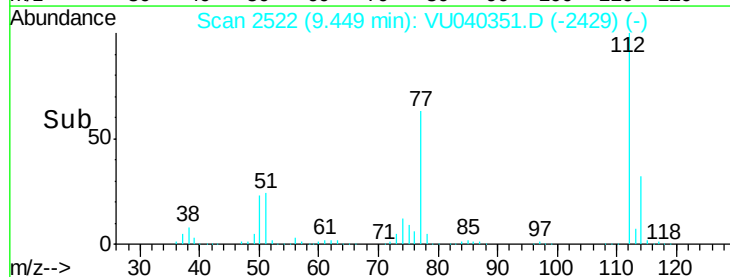
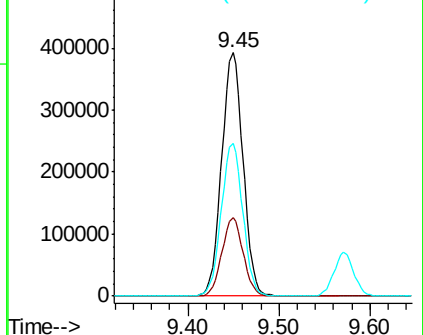


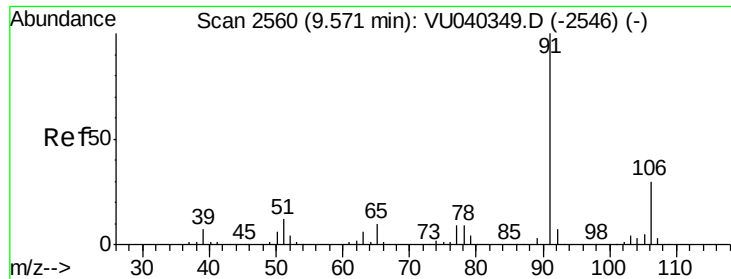
#51
 Chlorobenzene
 Concen: 20.797 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.0	40.8
77	62.8	49.5	74.3



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: 20.961 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

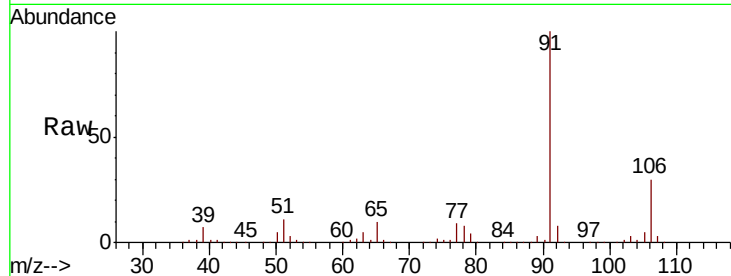
VSTD02002

Tot Ion: 91 Resp: 1166781

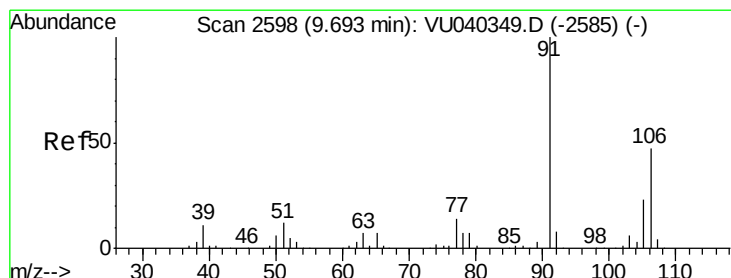
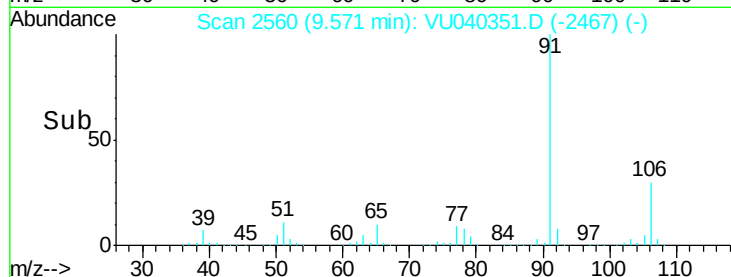
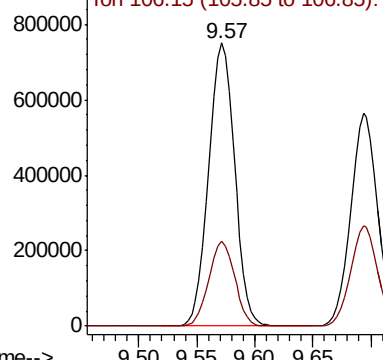
Ion Ratio Lower Upper

91 100

106 29.8 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU040351.D (-2546) (-)



#53

m,p-Xylene

Concen: 21.770 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040351.D

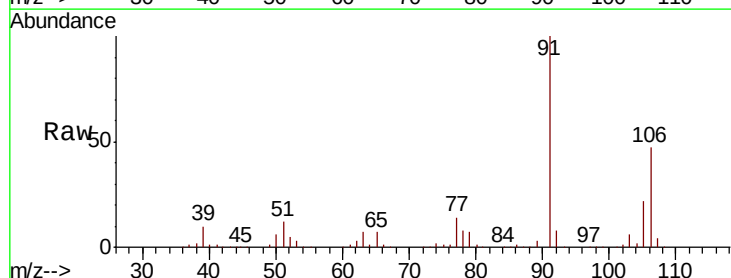
Acq: 29 Sep 2020 10:54

Tgt Ion: 106 Resp: 435242

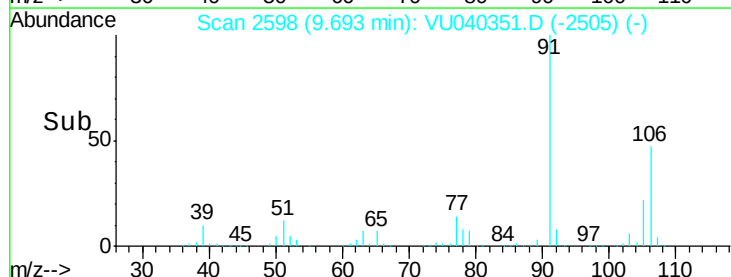
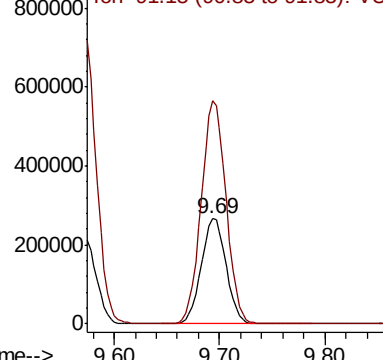
Ion Ratio Lower Upper

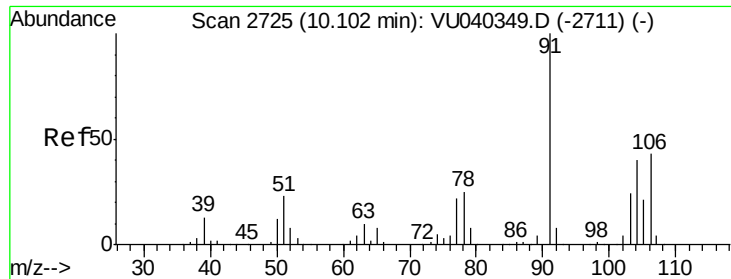
106 100

91 212.5 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): VU040351.D (-2585) (-)

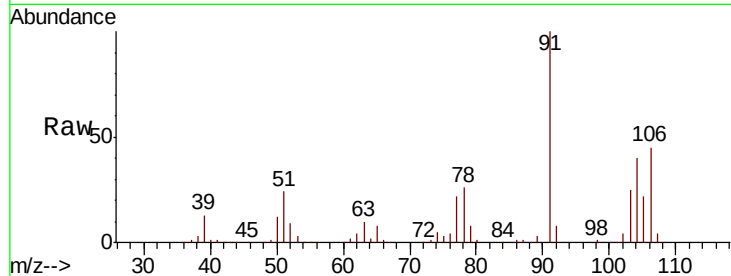




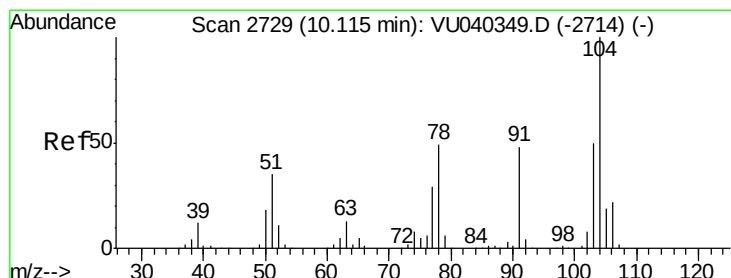
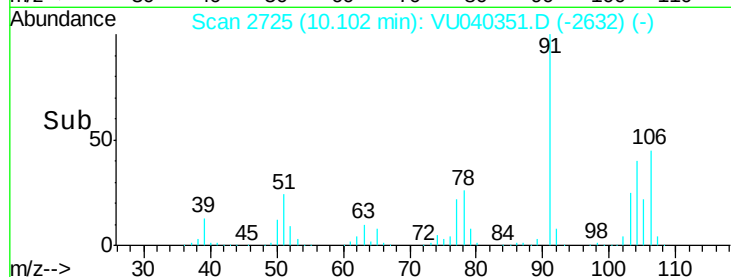
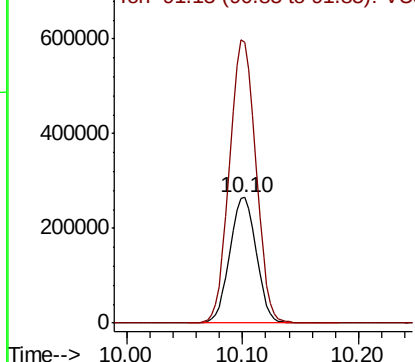
#54
o-Xylene
Concen: 22.000 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD02002

Tot Ion:106 Resp: 418182
Ion Ratio Lower Upper
106 100
91 224.4 160.9 298.9

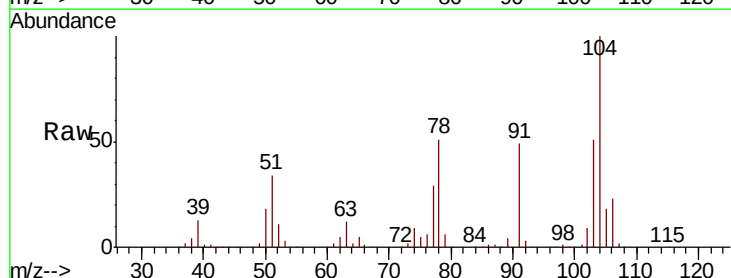


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

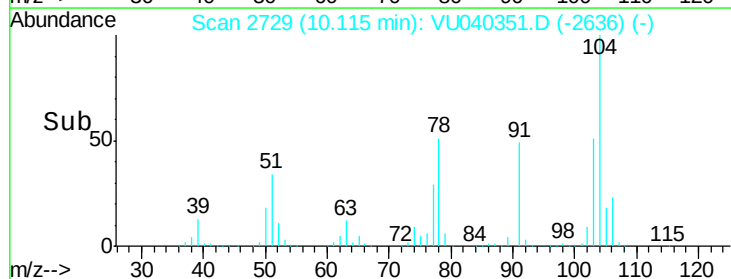
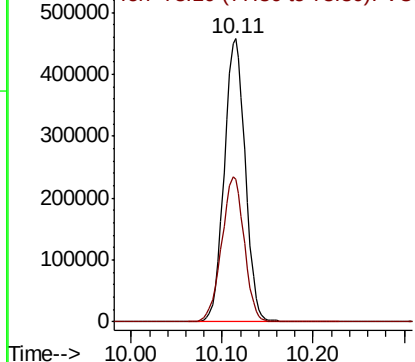


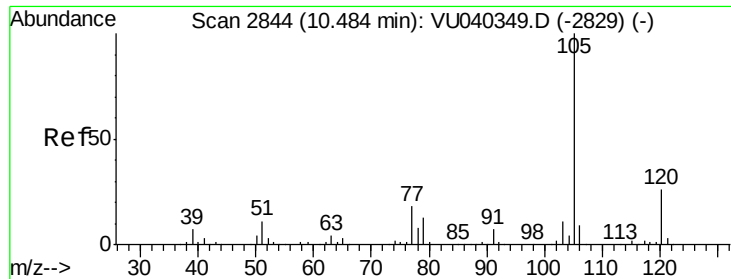
#55
Styrene
Concen: 22.060 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040351.D
Acq: 29 Sep 2020 10:54

Tgt Ion:104 Resp: 732597
Ion Ratio Lower Upper
104 100
78 50.5 34.4 63.8



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 21.963 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampled :

VSTD02002

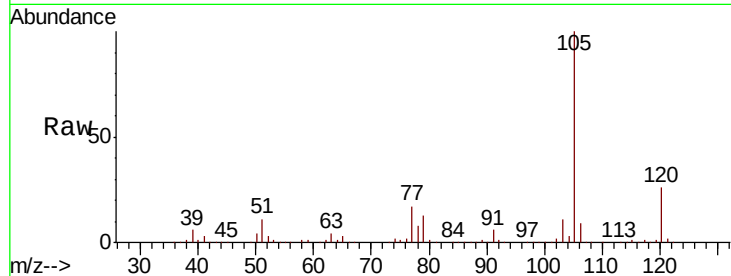
Tot Ion:105 Resp: 1134955

Ion Ratio Lower Upper

105 100

120 25.9 20.6 30.8

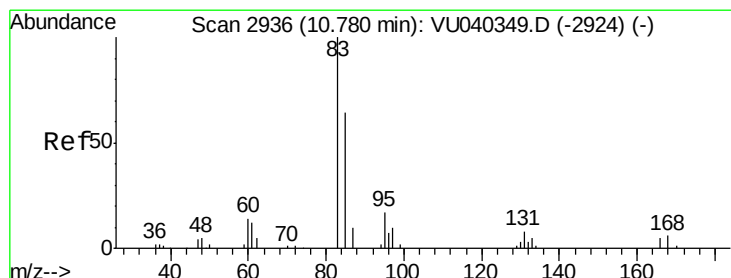
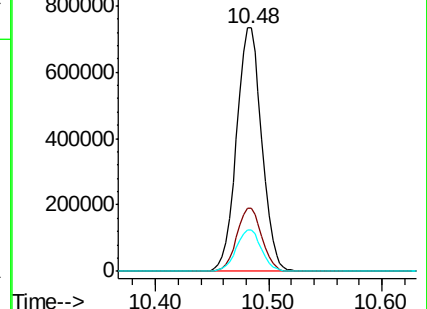
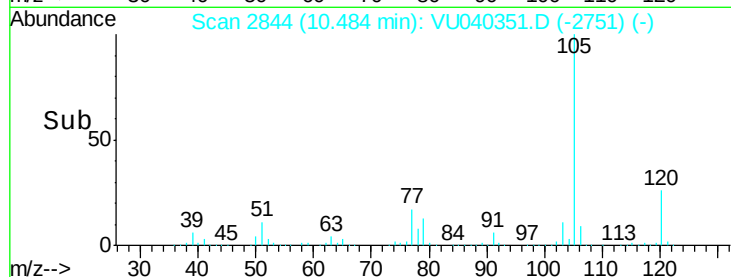
77 17.1 14.3 21.5



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



#58

1,1,2,2-Tetrachloroethane

Concen: 20.482 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

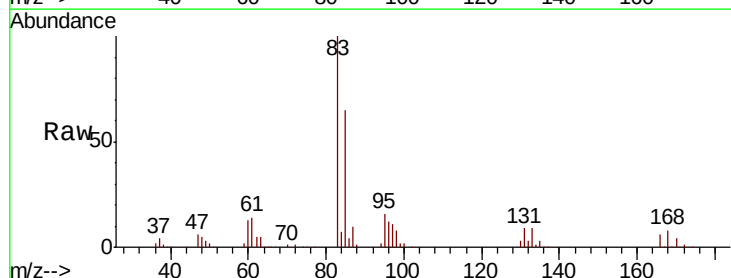
Tgt Ion: 83 Resp: 251262

Ion Ratio Lower Upper

83 100

85 65.3 45.1 83.9

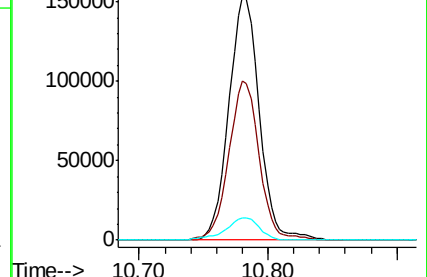
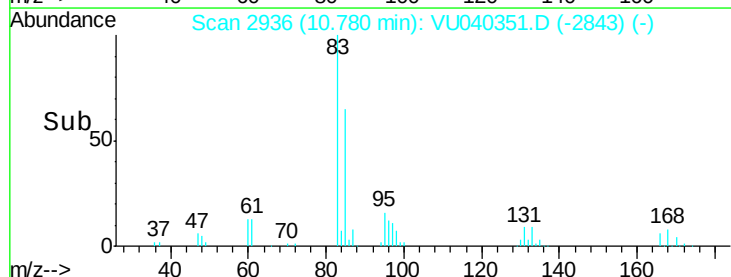
131 9.2 6.6 10.0

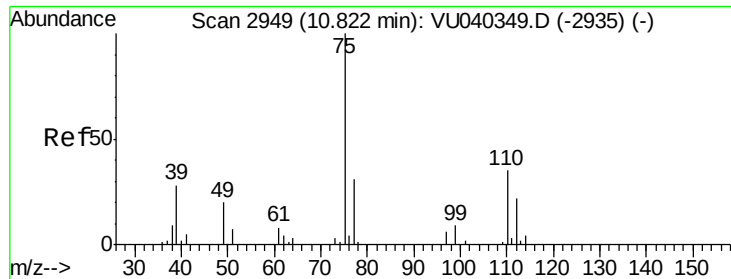


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 19.982 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

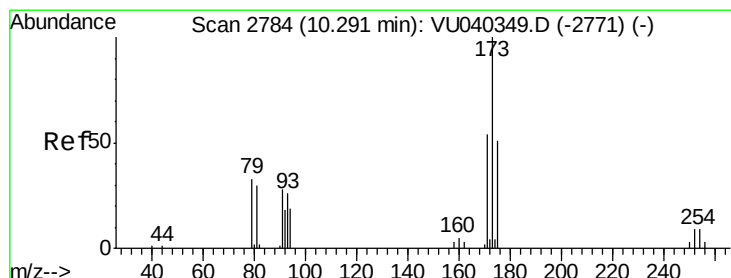
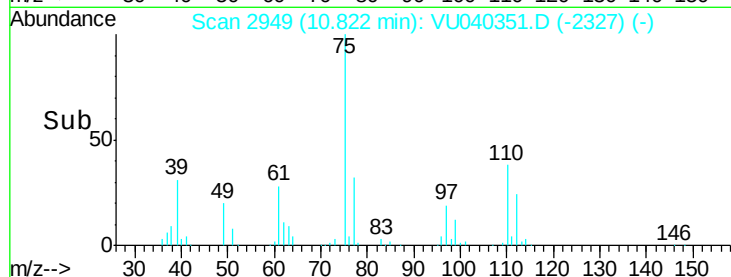
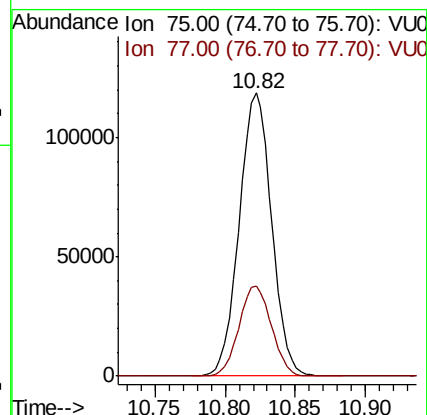
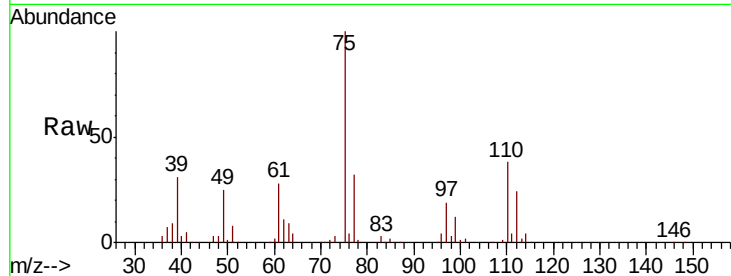
VSTD02002

Tot Ion: 75 Resp: 191221

Ion Ratio Lower Upper

75 100

77 32.0 25.7 38.5



#61

Bromoform

Concen: 19.611 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

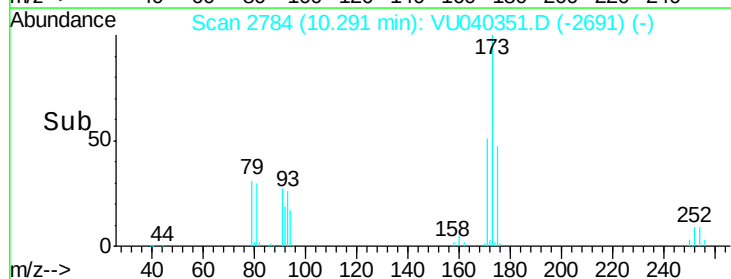
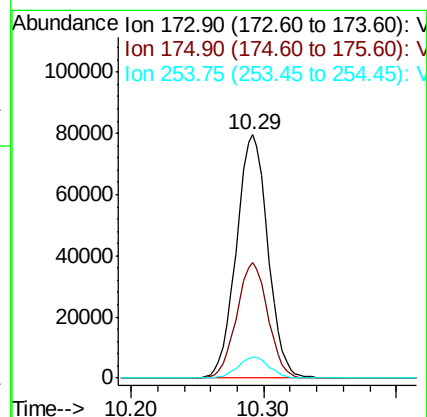
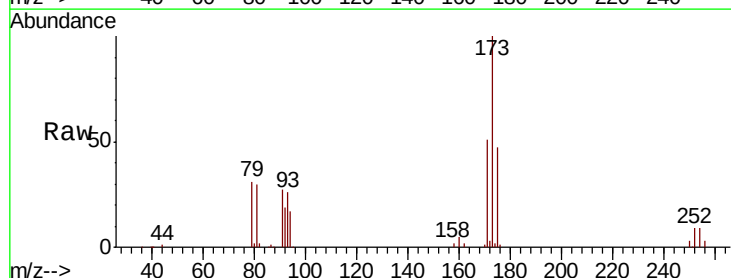
Tgt Ion: 173 Resp: 131027

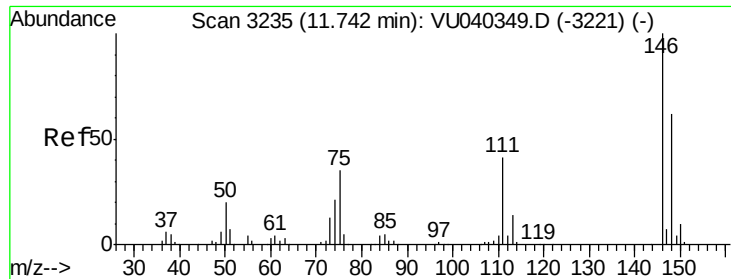
Ion Ratio Lower Upper

173 100

175 47.4 39.6 59.4

254 8.6 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 19.887 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

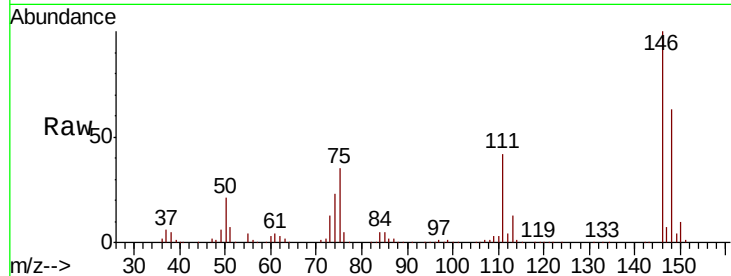
Tot Ion:146 Resp: 534996

Ion Ratio Lower Upper

146 100

111 41.7 28.6 53.0

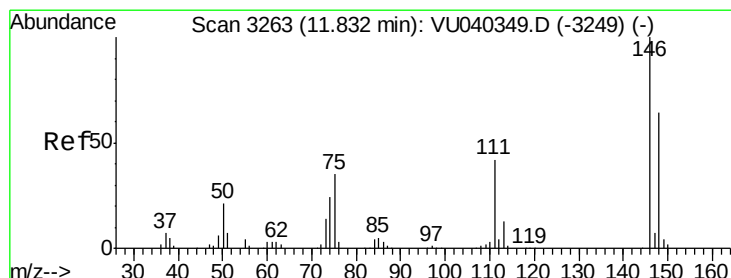
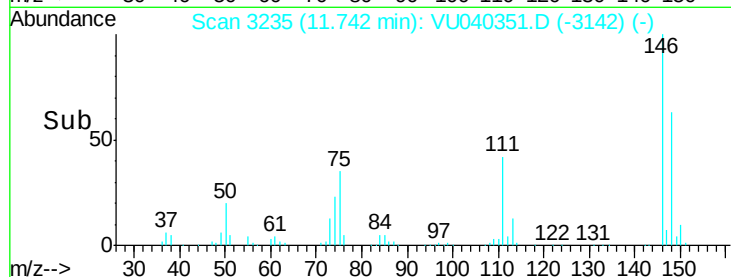
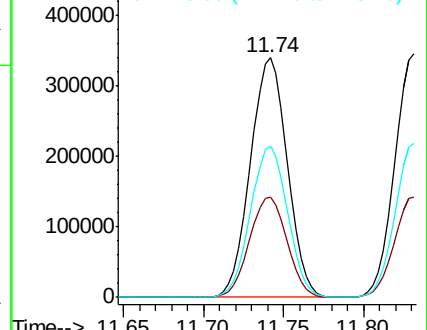
148 63.3 43.4 80.6



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



#63

1,4-Dichlorobenzene

Concen: 19.868 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

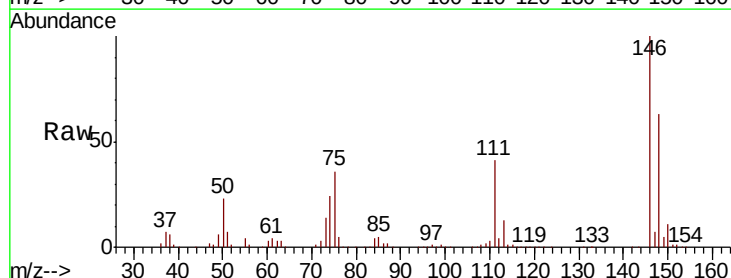
Tgt Ion:146 Resp: 539149

Ion Ratio Lower Upper

146 100

111 41.2 29.2 54.2

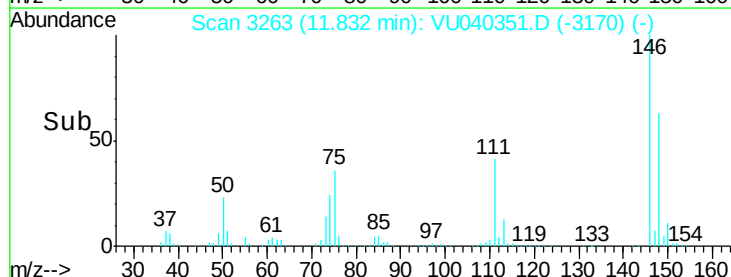
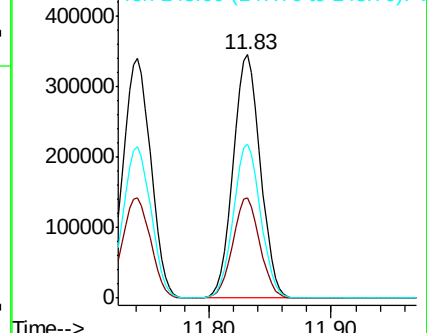
148 63.3 44.4 82.4

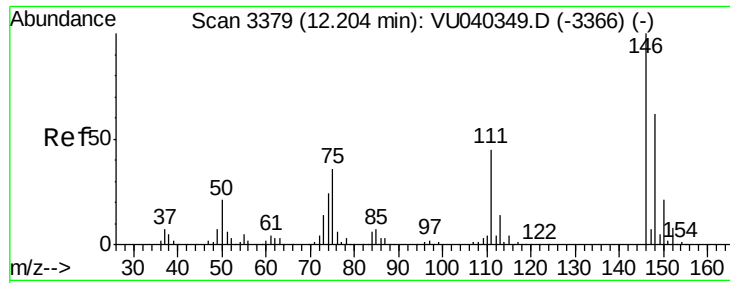


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 19.581 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

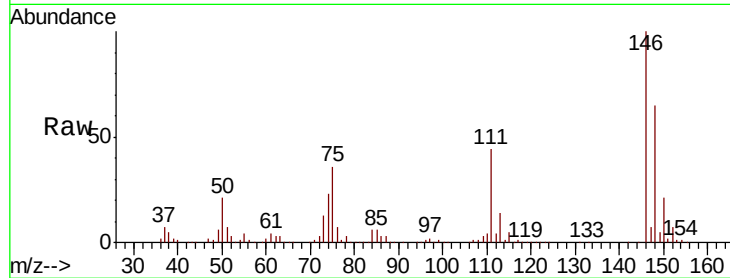
Tot Ion:146 Resp: 508660

Ion Ratio Lower Upper

146 100

111 44.1 35.6 53.4

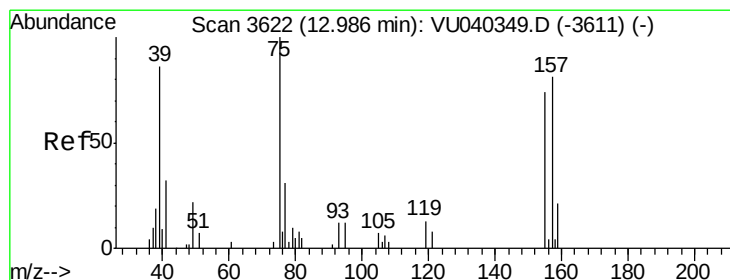
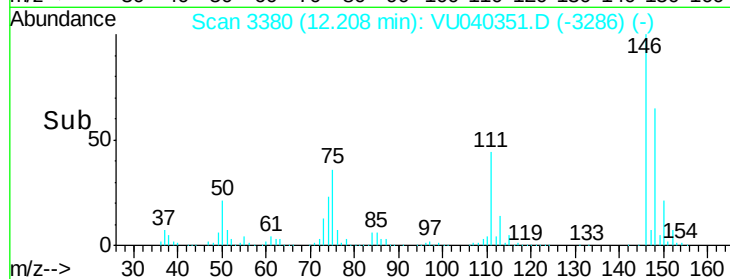
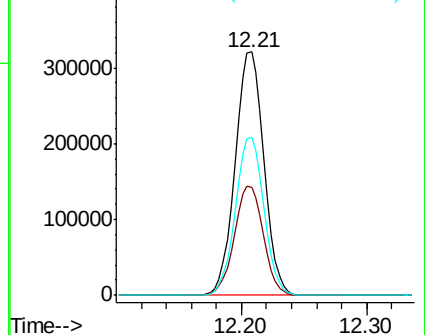
148 64.7 49.8 74.6



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-Dibromo-3-chloropropane

Concen: 17.570 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

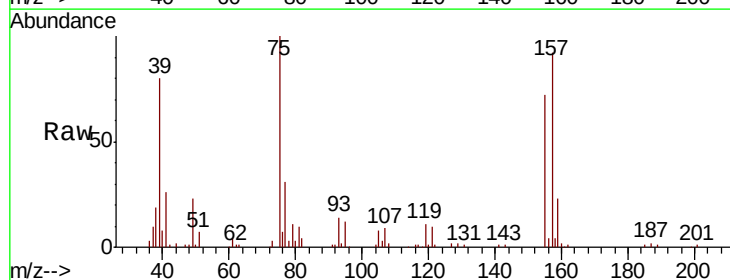
Tgt Ion: 75 Resp: 46610

Ion Ratio Lower Upper

75 100

155 72.3 59.4 89.2

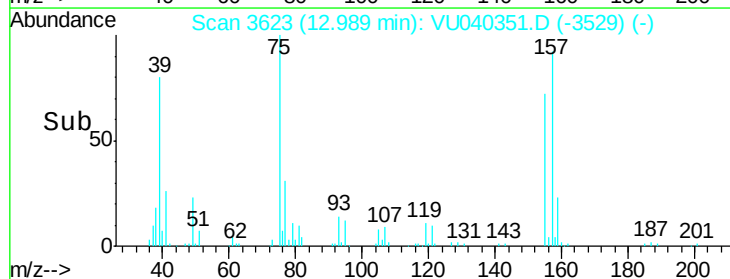
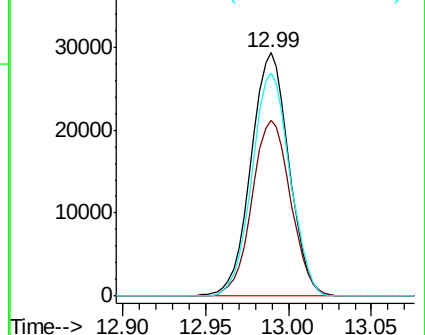
157 91.8 65.0 97.4

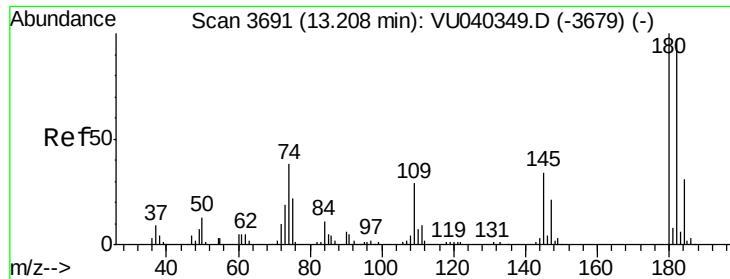


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

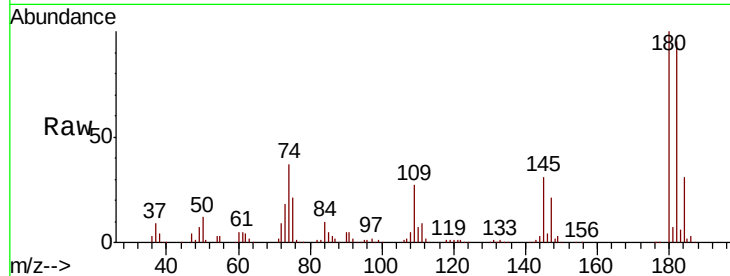




#67
 1,3,5-Trichlorobenzene
 Concen: 20.916 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02002

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.5	114.7
184	30.6	24.6	37.0
145	31.9	25.8	38.8

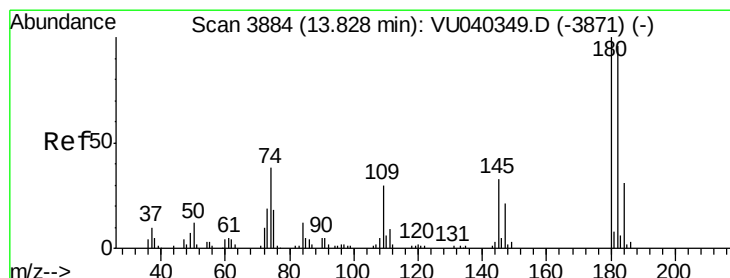
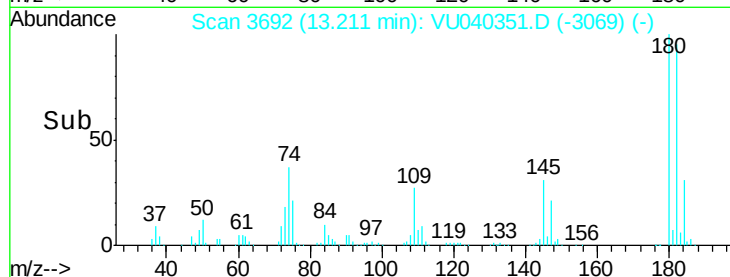
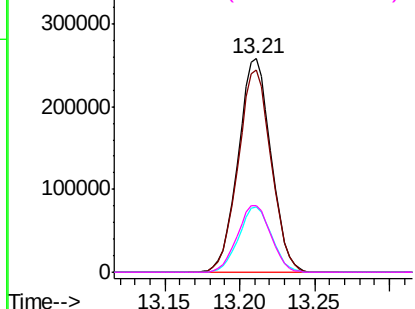


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

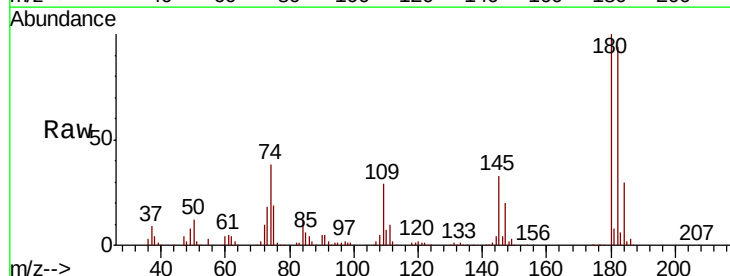
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 21.836 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU040351.D
 Acq: 29 Sep 2020 10:54

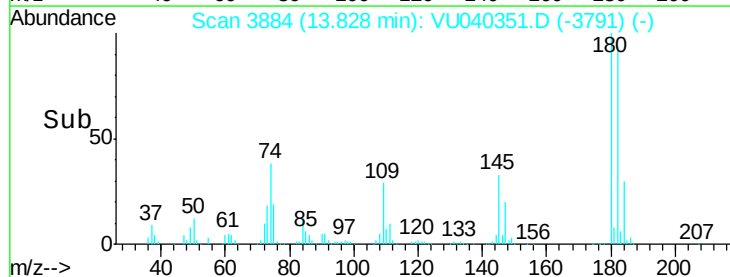
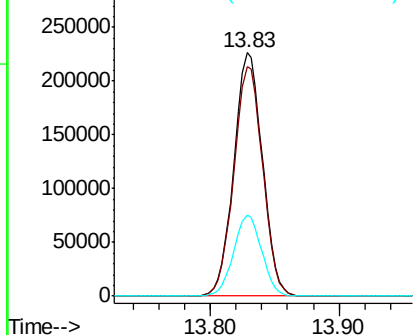
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.6	115.0
145	32.8	26.3	39.5

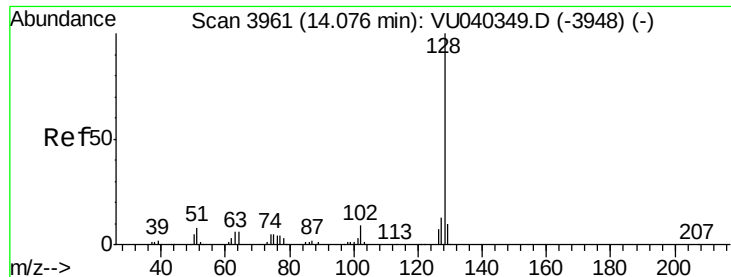


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 21.693 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD02002

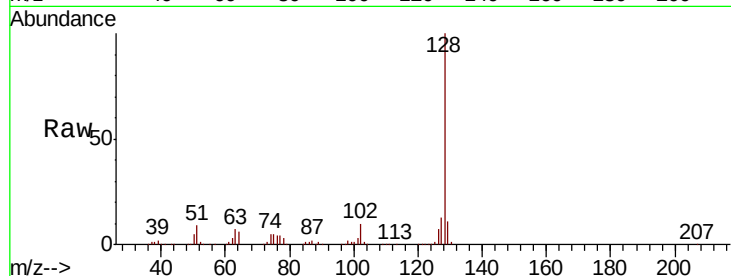
Tot Ion:128 Resp: 693501

Ion Ratio Lower Upper

128 100

129 10.9 8.2 12.4

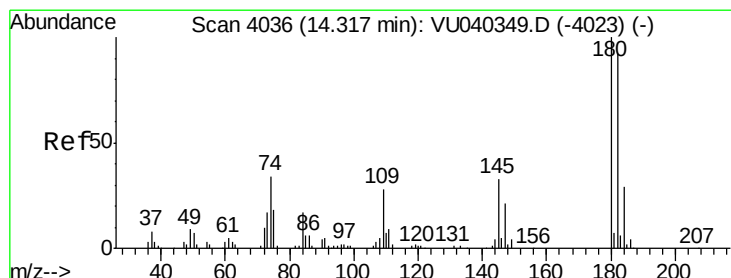
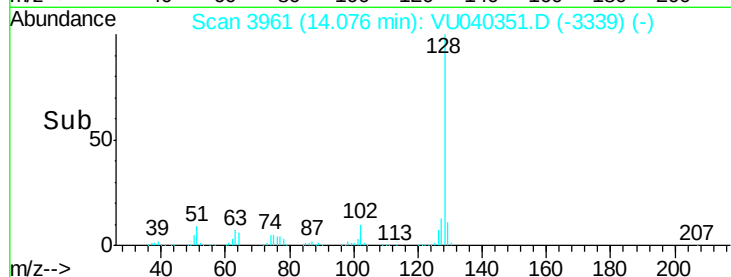
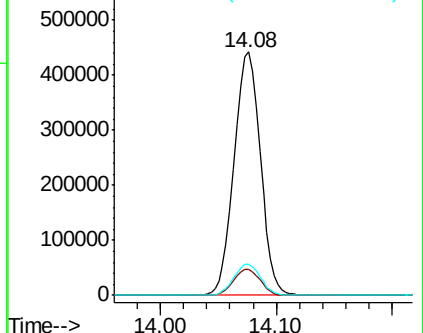
127 13.1 10.2 15.4



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: 21.603 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU040351.D

Acq: 29 Sep 2020 10:54

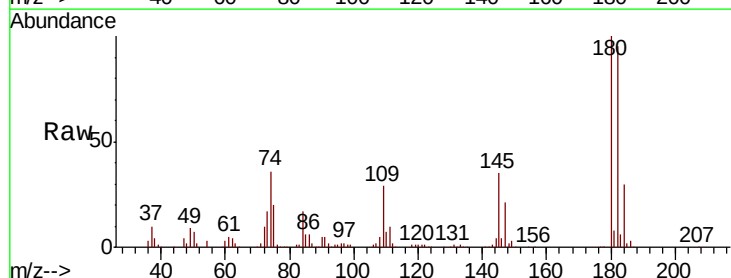
Tgt Ion:180 Resp: 317990

Ion Ratio Lower Upper

180 100

182 94.0 76.6 115.0

145 35.0 27.8 41.6



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

