

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102620\
 Data File : VU040938.D
 Acq On : 26 Oct 2020 12:21
 Operator : SY/MD
 Sample : VSTD02005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

Quant Time: Oct 27 02:24:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 27 02:16:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	68031	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	65863	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	34764	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	116553	23.67	ug/L	0.00
7) Chloroethane-d5	1.92	69	89390	21.24	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.58	63	226036	21.92	ug/L	0.00
20) 2-Butanone-d5	4.67	46	424351	245.15	ug/L	0.00
24) Chloroform-d	5.08	84	203219	19.71	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.72	65	121620	20.64	ug/L	0.00
32) Benzene-d6	5.74	84	380090	21.59	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.70	67	124210	21.04	ug/L	0.00
41) Toluene-d8	7.91	98	347519	22.24	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.19	79	57982	23.87	ug/L	0.00
46) 2-Hexanone-d5	8.64	63	343676	280.11	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.76	84	115573	22.69	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.19	152	129102	20.96	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	119272	17.503	ug/L	100
3) Chloromethane	1.53	50	122742	16.805	ug/L	100
5) Vinyl chloride	1.61	62	124323	18.081	ug/L	100
6) Bromomethane	1.87	94	71700	20.020	ug/L	98
8) Chloroethane	1.94	64	74599	16.836	ug/L	100
9) Trichlorofluoromethane	2.15	101	163270	17.882	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	98022	18.435	ug/L	98
12) 1,1-Dichloroethene	2.59	96	92373	18.600	ug/L	91
13) Acetone	2.68	43	253472	208.077	ug/L #	58
14) Carbon disulfide	2.81	76	309003	17.668	ug/L	99
15) Methyl Acetate	2.98	43	59922	20.079	ug/L	96
16) Methylene chloride	3.06	84	102273	16.733	ug/L	98
17) Methyl tert-butyl Ether	3.38	73	264673	21.648	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	97024	18.938	ug/L	98
19) 1,1-Dichloroethane	3.89	63	187632	18.200	ug/L	98
21) 2-Butanone	4.74	43	421050	230.628	ug/L	99
22) cis-1,2-Dichloroethene	4.69	96	104302	18.627	ug/L	100
23) Bromochloromethane	4.99	128	49235	19.520	ug/L	97
25) Chloroform	5.11	83	189632	18.038	ug/L	99
27) 1,2-Dichloroethane	5.81	62	142506	19.622	ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	164284	19.515	ug/L	96
30) Cyclohexane	5.40	56	183321	21.754	ug/L	100
31) Carbon tetrachloride	5.54	117	143190	19.164	ug/L	99
33) Benzene	5.79	78	407477	19.509	ug/L	100
34) Trichloroethene	6.55	95	102995	19.253	ug/L	99
35) Methylcyclohexane	6.77	83	174210	21.881	ug/L	96
37) 1,2-Dichloropropane	6.80	63	110035	19.453	ug/L	98
38) Bromodichloromethane	7.11	83	141507	19.578	ug/L	98
39) cis-1,3-Dichloropropene	7.62	75	165897	21.829	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	962744	244.989	ug/L	99

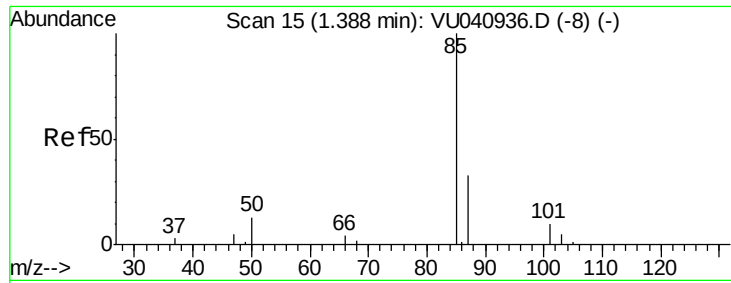
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102620\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.98	91	423640	20.116	ug/L	98
44) trans-1,3-Dichloropropene	8.22	75	153488	22.154	ug/L	96
45) 1,1,2-Trichloroethane	8.41	97	79737	20.470	ug/L	94
47) Tetrachloroethene	8.56	164	75055	18.937	ug/L	97
48) 2-Hexanone	8.69	43	707291	244.995	ug/L	99
49) Dibromochloromethane	8.82	129	94584	20.374	ug/L	97
50) 1,2-Dibromoethane	8.93	107	77577	21.243	ug/L	97
51) Chlorobenzene	9.45	112	262305	19.321	ug/L	98
52) Ethylbenzene	9.57	91	474793	20.961	ug/L	99
53) m,p-Xylene	9.69	106	174409	21.484	ug/L	97
54) o-Xylene	10.10	106	165101	21.366	ug/L	97
55) Styrene	10.11	104	293346	21.781	ug/L	100
56) Isopropylbenzene	10.48	105	448615	21.787	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.78	83	109632	21.824	ug/L	100
59) 1,2,3-Trichloropropane	10.82	75	82227	21.750	ug/L	100
61) Bromoform	10.29	173	54553	21.218	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	205830	19.093	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	211021	18.979	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	201666	19.779	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	20785	21.347	ug/L	96
67) 1,3,5-Trichlorobenzene	13.21	180	150807	19.053	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	135653	20.423	ug/L	97
69) Naphthalene	14.08	128	295464	24.337	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	127267	19.832	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 17.503 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

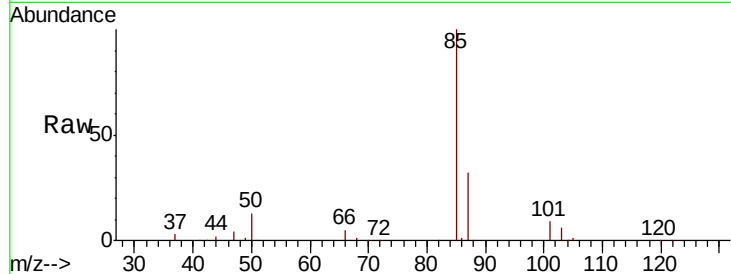
VSTD02005

Tot Ion: 85 Resp: 119272

Ion Ratio Lower Upper

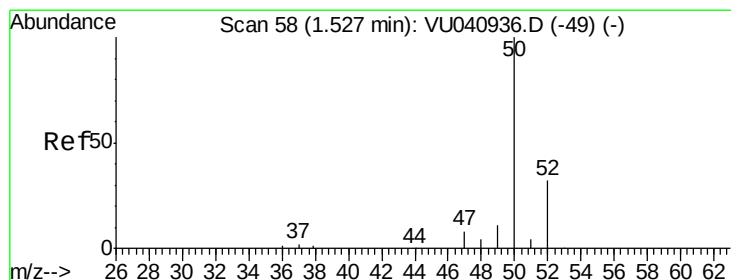
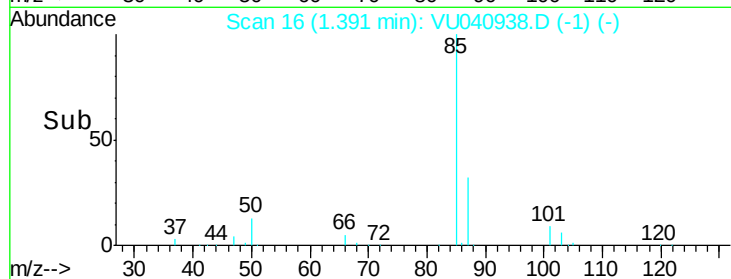
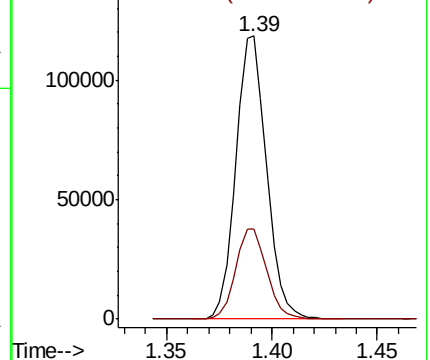
85 100

87 32.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 16.805 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040938.D

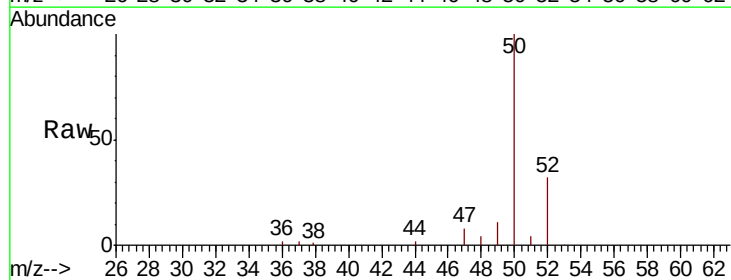
Acq: 26 Oct 2020 12:21

Tgt Ion: 50 Resp: 122742

Ion Ratio Lower Upper

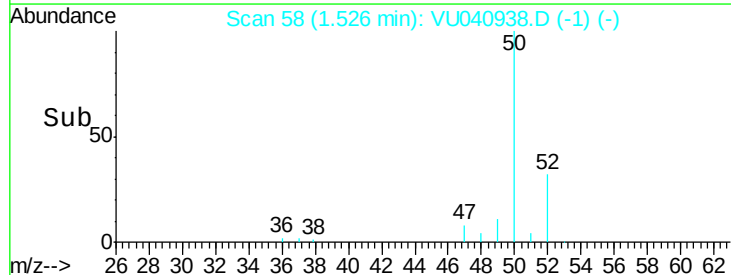
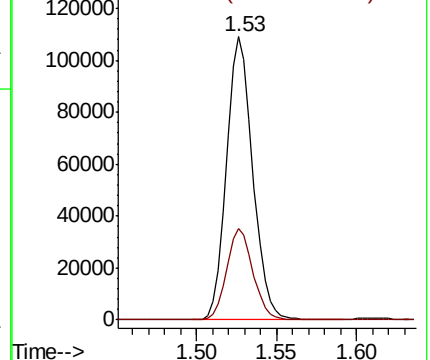
50 100

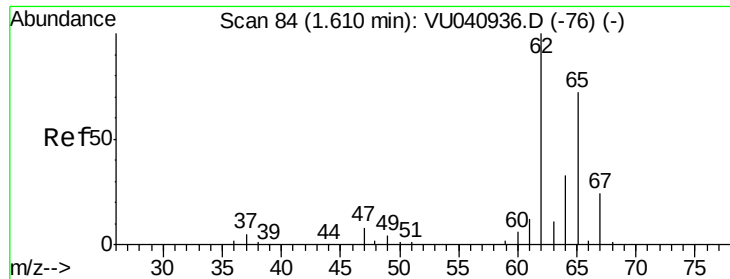
52 32.2 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 18.081 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

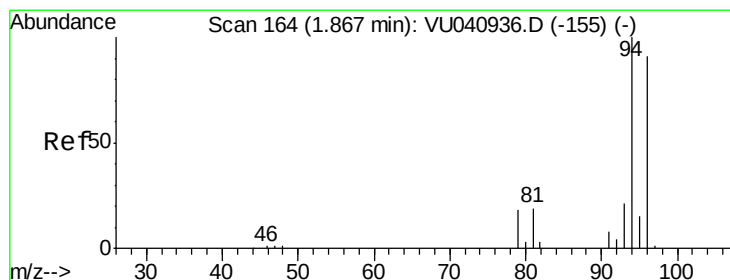
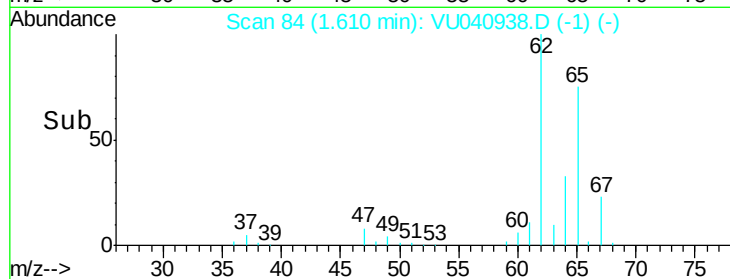
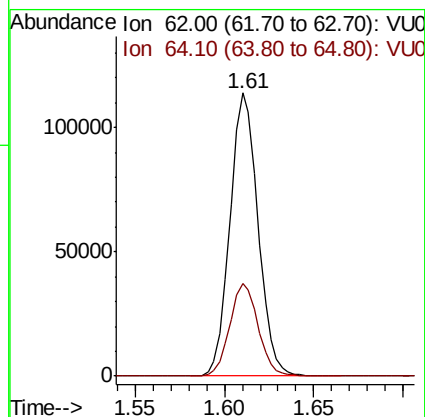
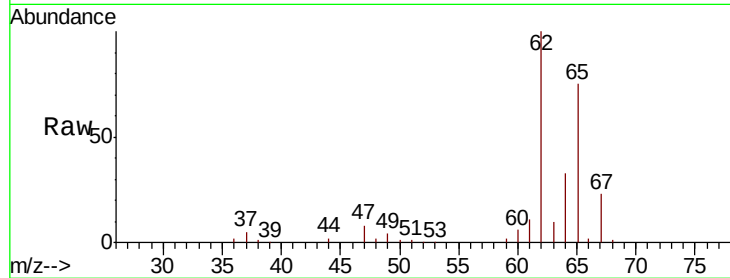
VSTD02005

Tot Ion: 62 Resp: 124323

Ion Ratio Lower Upper

62 100

64 32.6 22.7 42.3



#6

Bromomethane

Concen: 20.020 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040938.D

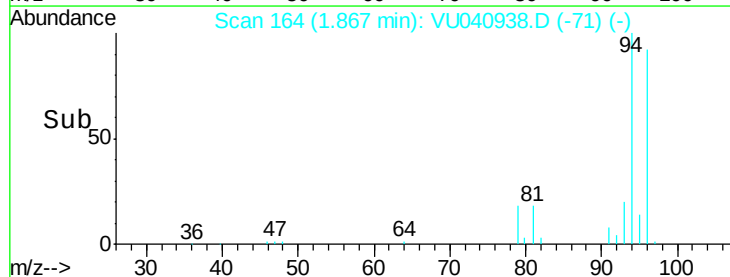
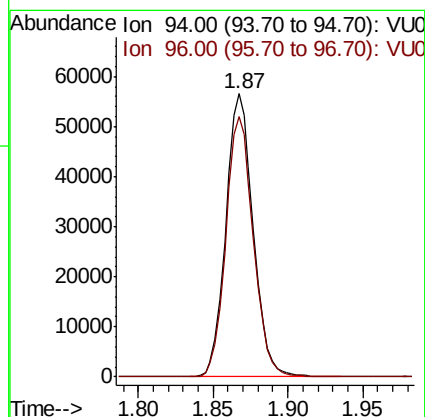
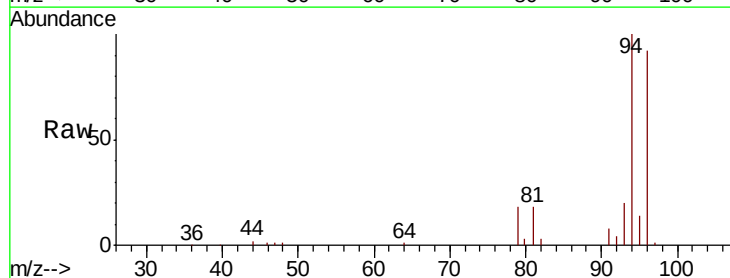
Acq: 26 Oct 2020 12:21

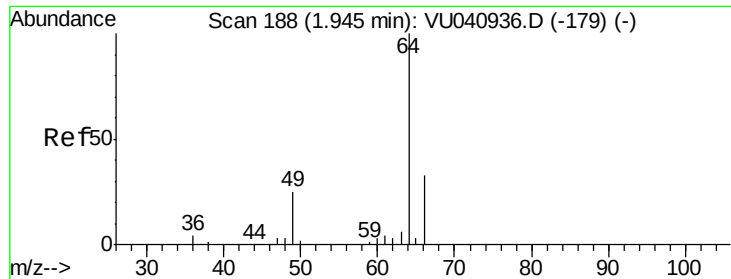
Tgt Ion: 94 Resp: 71700

Ion Ratio Lower Upper

94 100

96 92.2 63.5 117.9

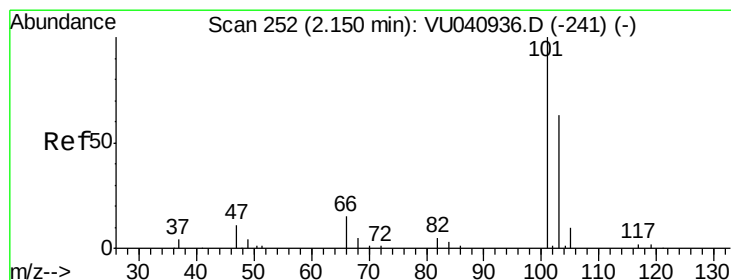
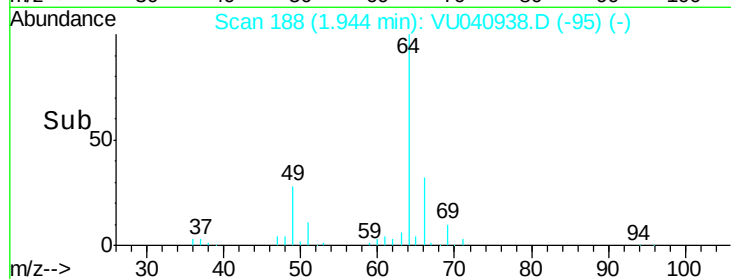
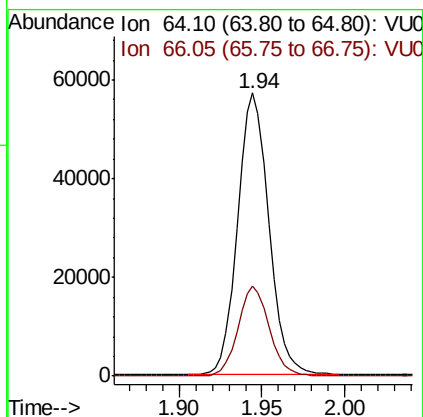
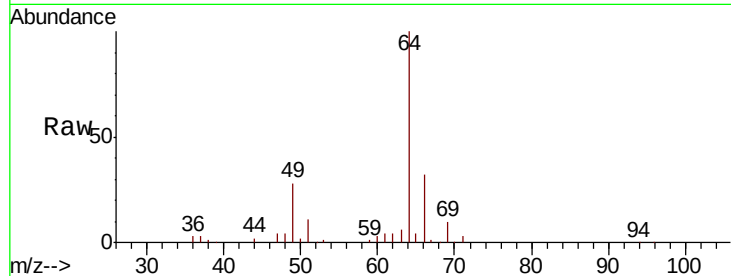




#8
 Chloroethane
 Concen: 16.836 ug/L
 RT: 1.94 min Scan# 188
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

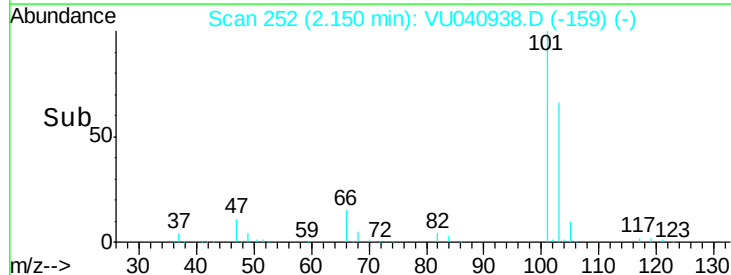
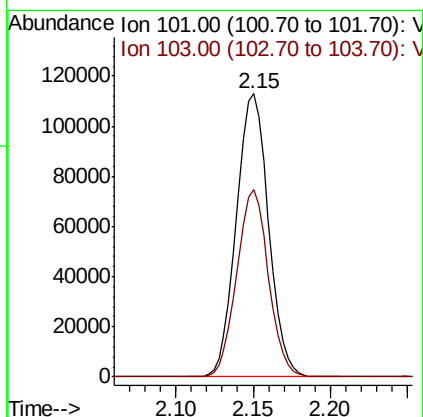
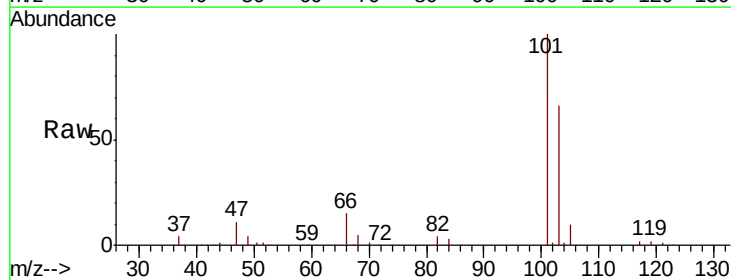
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

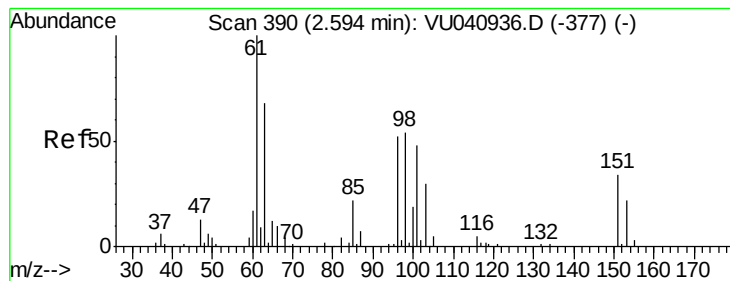
Tot Ion: 64 Resp: 74599
 Ion Ratio Lower Upper
 64 100
 66 31.7 22.3 41.5



#9
 Trichlorofluoromethane
 Concen: 17.882 ug/L
 RT: 2.15 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

Tgt Ion:101 Resp: 163270
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.0 76.4





#10

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

Concen: 18.435 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

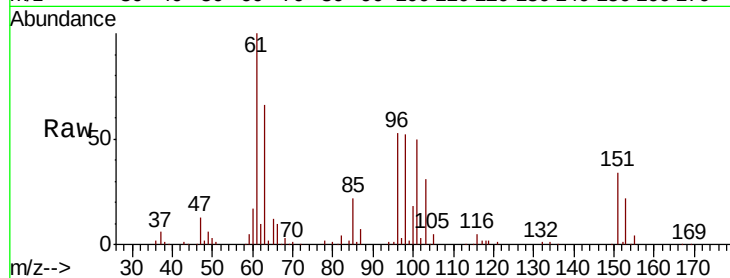
Tot Ion:101 Resp: 98022

Ion Ratio Lower Upper

101 100

85 44.8 35.0 52.4

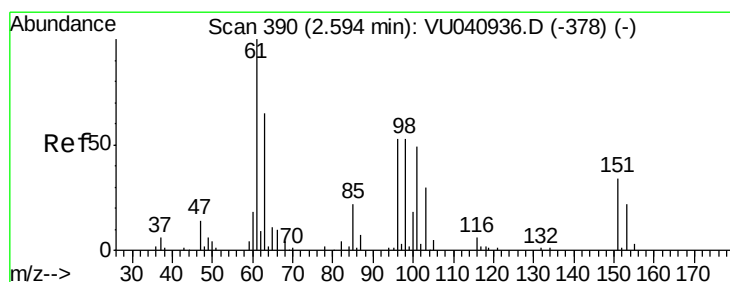
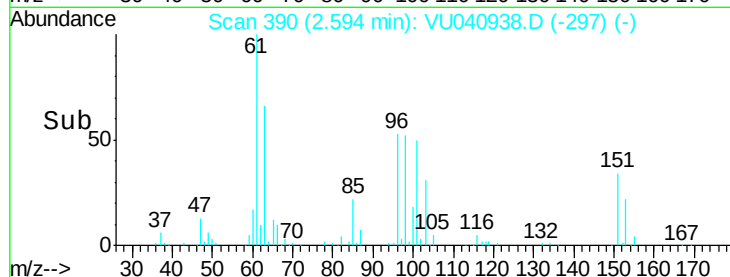
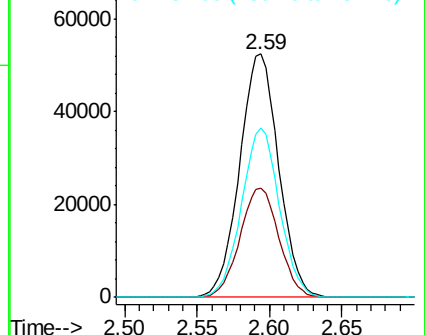
151 67.8 55.3 82.9



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: 18.600 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

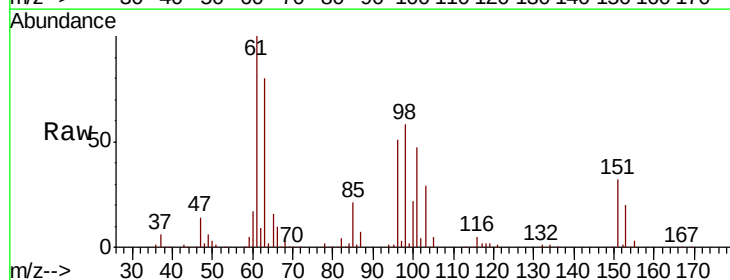
Tgt Ion: 96 Resp: 92373

Ion Ratio Lower Upper

96 100

61 195.9 134.3 249.5

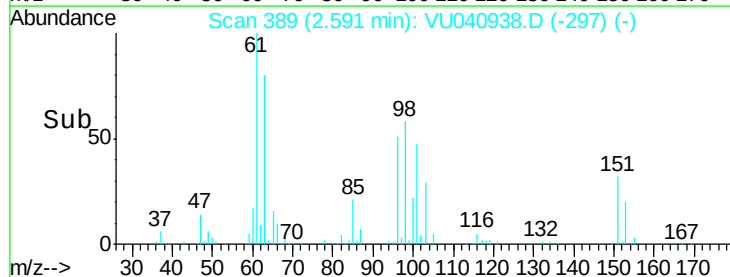
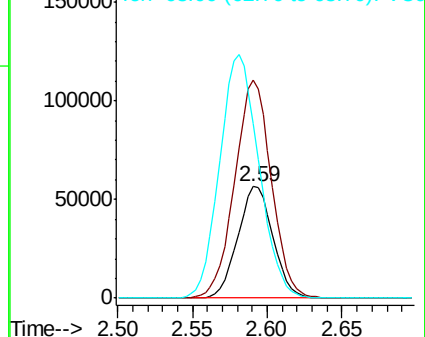
63 156.4 95.0 176.4

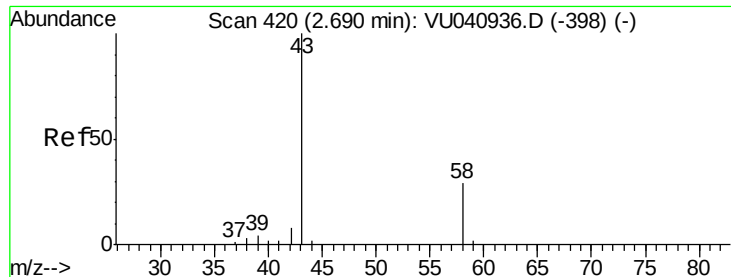


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 208.077 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.01 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

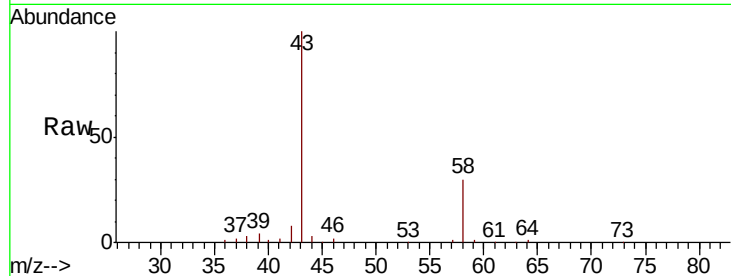
VSTD02005

Tot Ion: 43 Resp: 253472

Ion Ratio Lower Upper

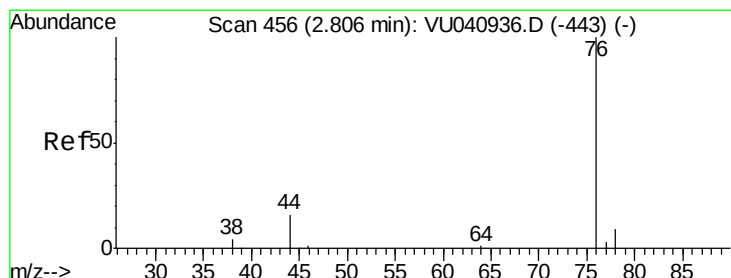
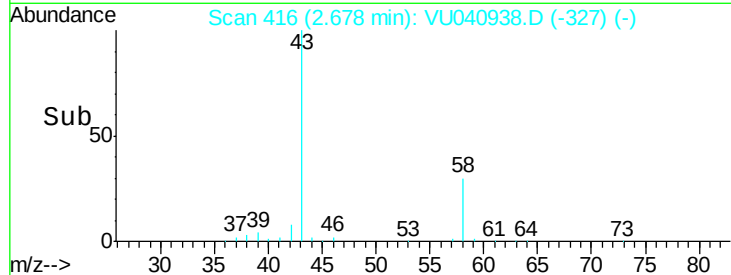
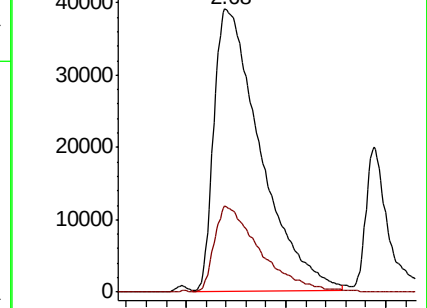
43 100

58 29.3 0.0 25.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 17.668 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040938.D

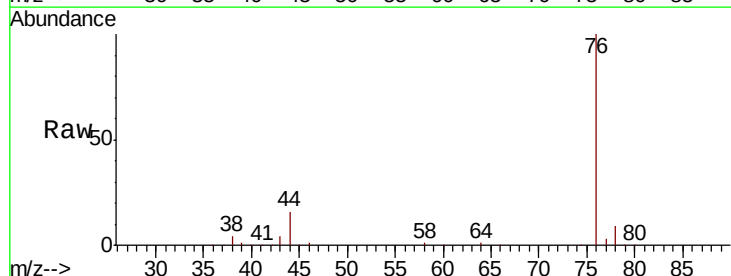
Acq: 26 Oct 2020 12:21

Tgt Ion: 76 Resp: 309003

Ion Ratio Lower Upper

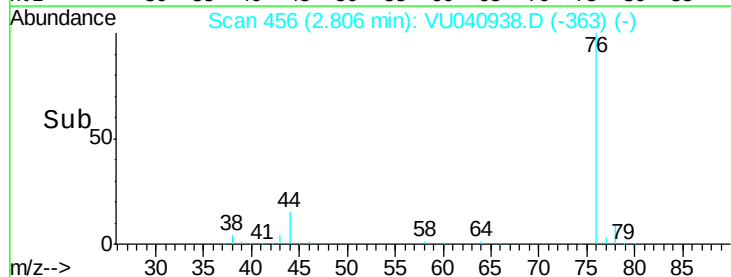
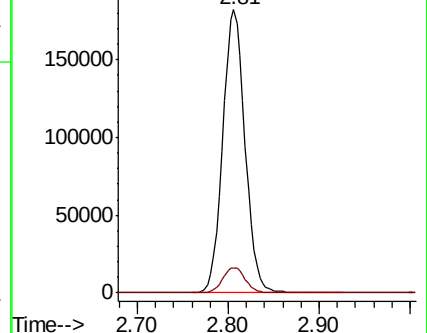
76 100

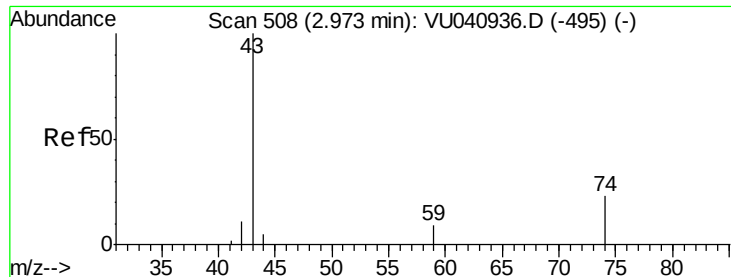
78 8.9 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 20.079 ug/L

RT: 2.98 min Scan# 509

Delta R.T. 0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

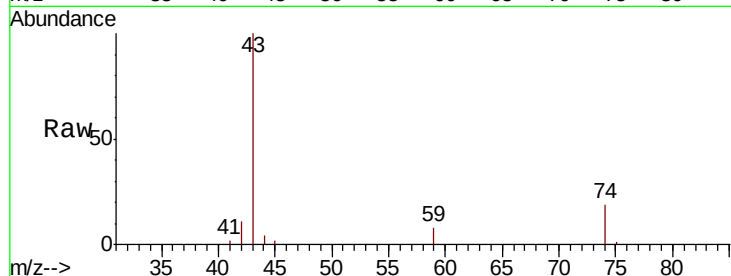
VSTD02005

Tot Ion: 43 Resp: 59922

Ion Ratio Lower Upper

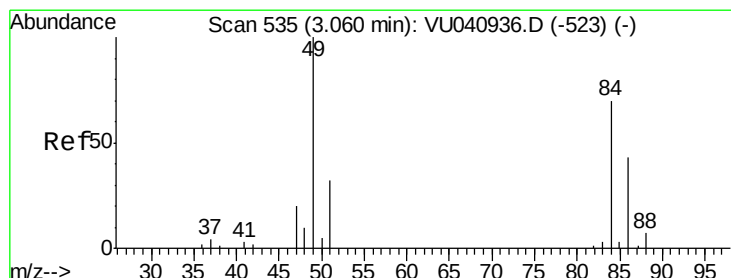
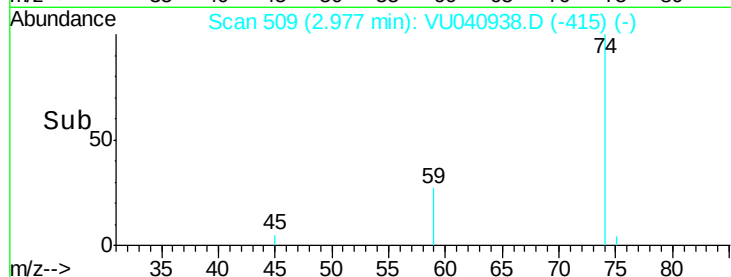
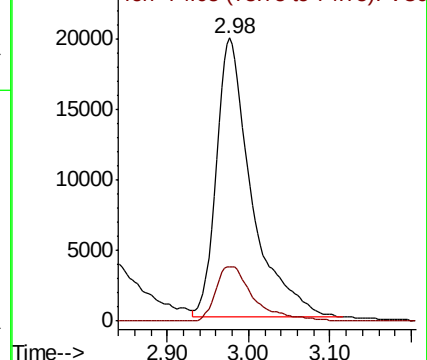
43 100

74 21.2 18.3 27.5



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 16.733 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

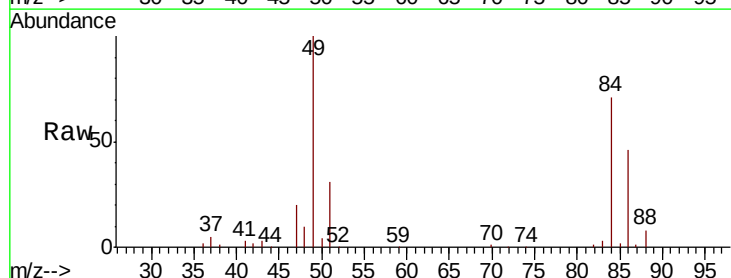
Tgt Ion: 84 Resp: 102273

Ion Ratio Lower Upper

84 100

86 65.2 42.8 79.6

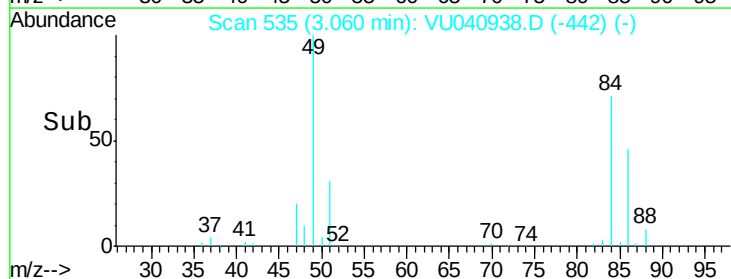
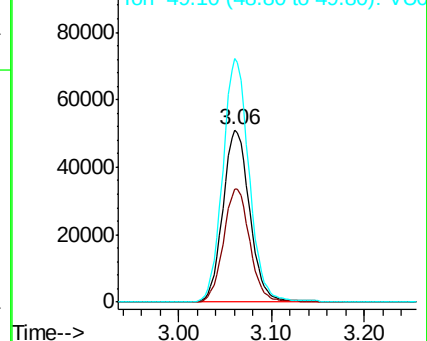
49 141.2 99.5 184.7

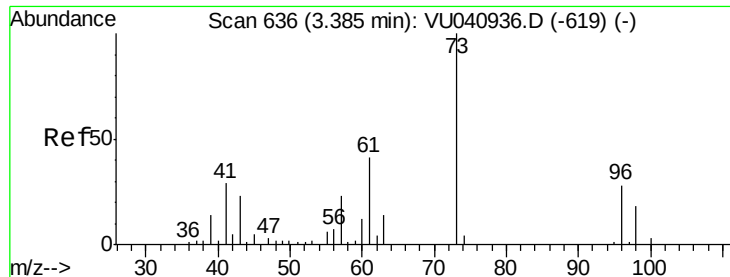


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

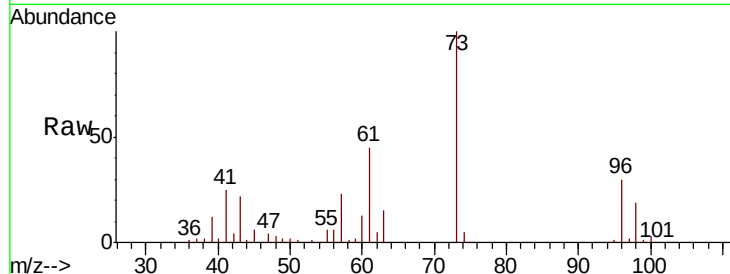




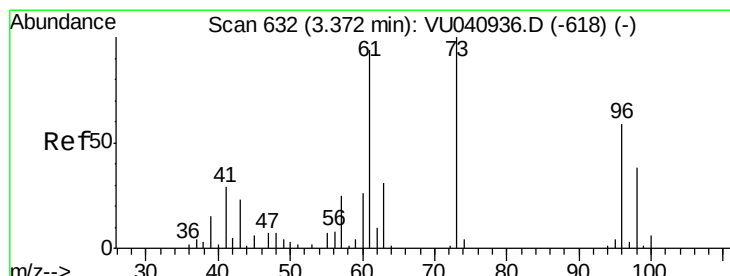
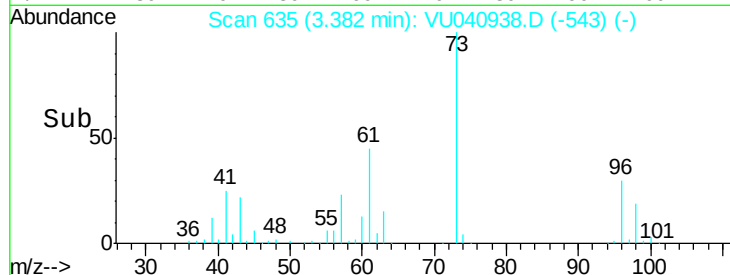
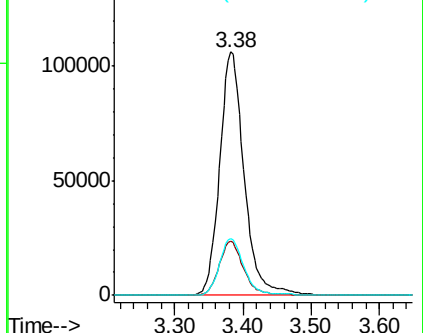
#17
Methyl tert-butyl Ether
Concen: 21.648 ug/L
RT: 3.38 min Scan# 635
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampled :
VSTD02005

Tot Ion: 73 Resp: 264673
Ion Ratio Lower Upper
73 100
43 22.4 18.5 27.7
57 23.6 18.4 27.6

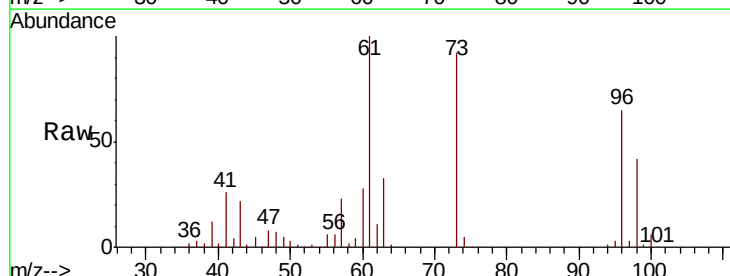


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

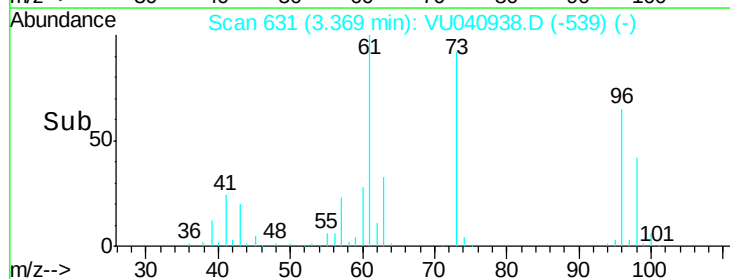
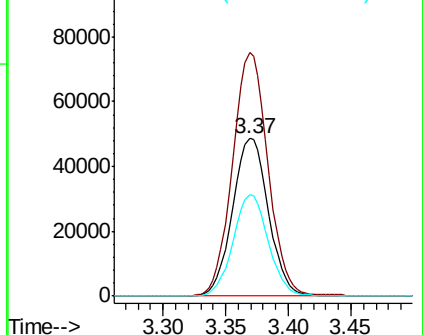


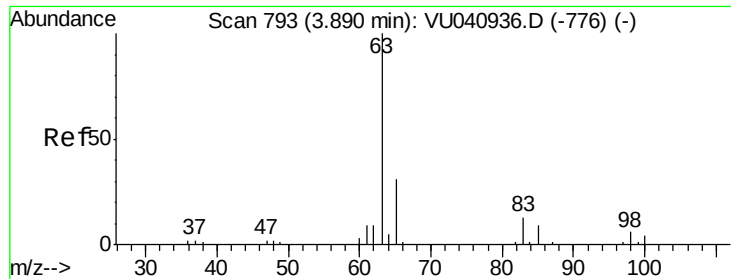
#18
trans-1,2-Dichloroethene
Concen: 18.938 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion: 96 Resp: 97024
Ion Ratio Lower Upper
96 100
61 154.3 110.9 205.9
98 64.5 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

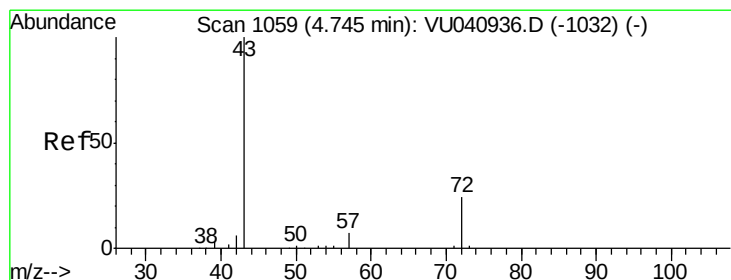
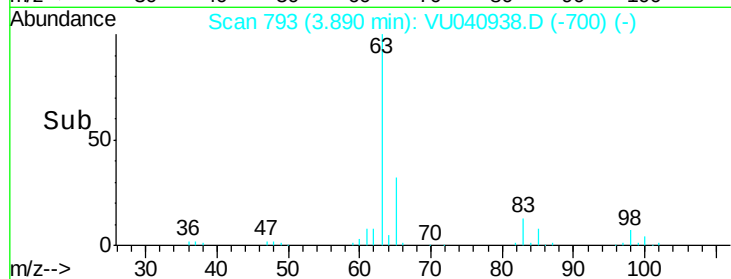
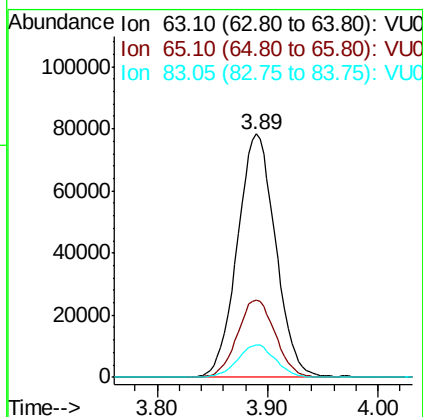
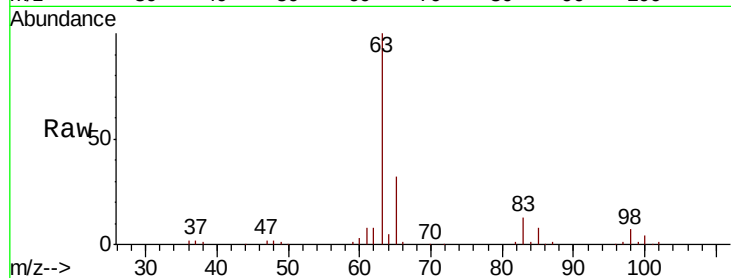




#19
 1,1-Dichloroethane
 Concen: 18.200 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

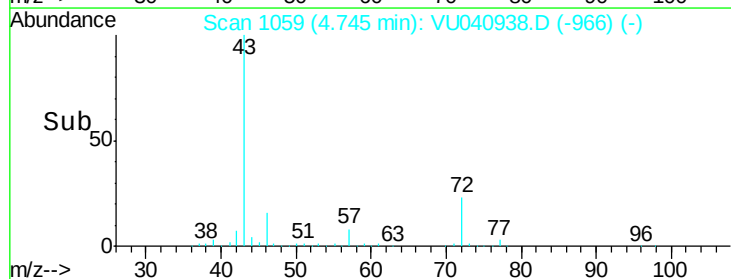
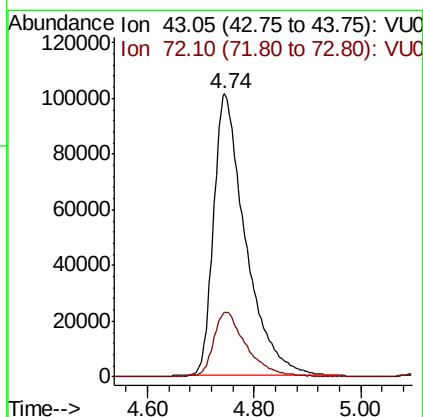
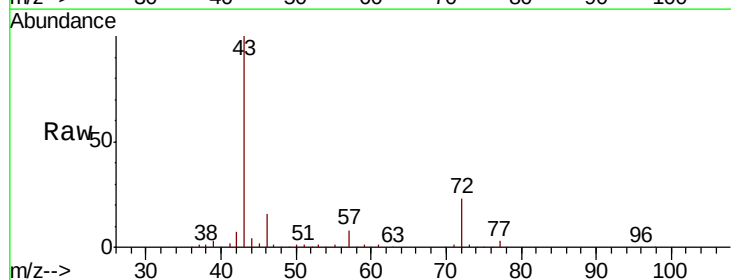
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

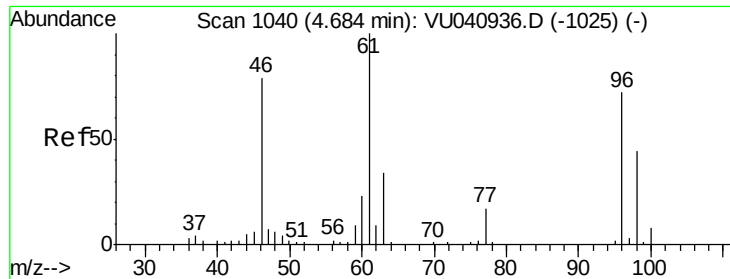
Tot Ion: 63 Resp: 187632
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.3 39.6
 83 13.3 8.8 16.3



#21
 2-Butanone
 Concen: 230.628 ug/L
 RT: 4.74 min Scan# 1059
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

Tgt Ion: 43 Resp: 421050
 Ion Ratio Lower Upper
 43 100
 72 23.9 11.8 35.4





#22

cis-1,2-Dichloroethene

Concen: 18.627 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

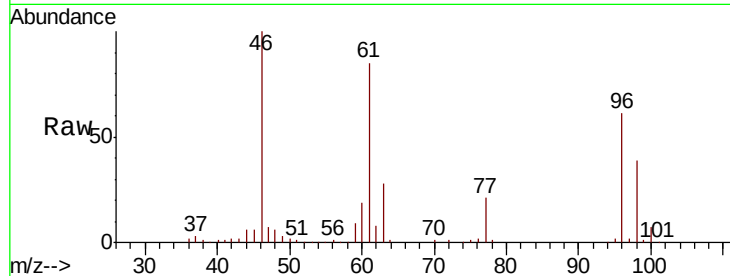
Tot Ion: 96 Resp: 104302

Ion Ratio Lower Upper

96 100

61 139.3 97.2 180.4

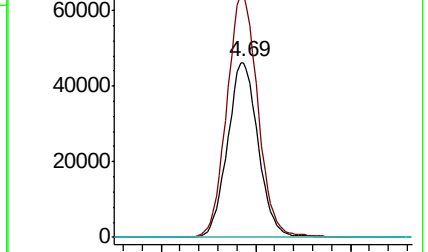
68 0.0 0.0 0.0



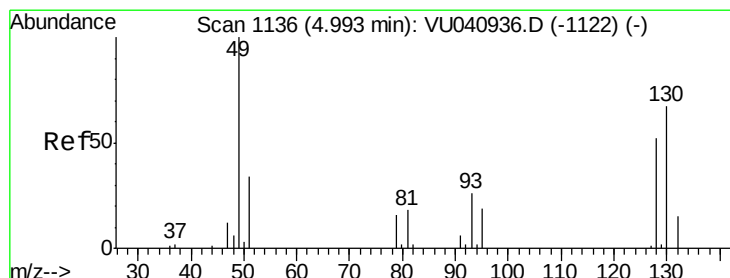
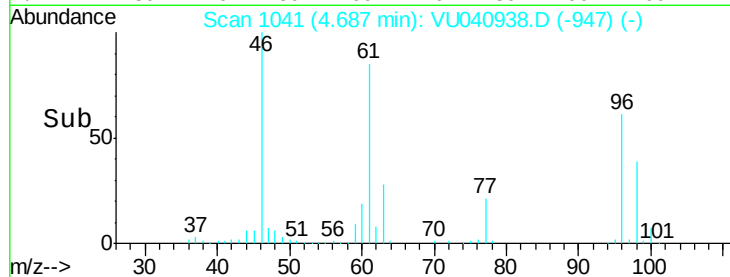
Abundance Ion 96.00 (95.70 to 96.70): VU040938.D (-1043) (-)

Ion 61.05 (60.75 to 61.75): VU040938.D (-1043) (-)

Ion 68.15 (67.85 to 68.85): VU040938.D (-1043) (-)



Time-->



#23

Bromochloromethane

Concen: 19.520 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Tgt Ion: 128 Resp: 49235

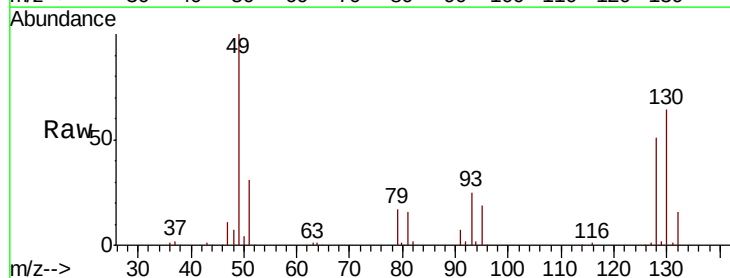
Ion Ratio Lower Upper

128 100

49 196.7 135.0 250.8

130 126.6 89.9 167.0

51 61.0 51.9 77.9

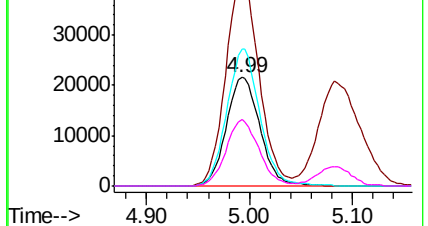


Abundance Ion 127.90 (127.60 to 128.60): VU040938.D (-1043) (-)

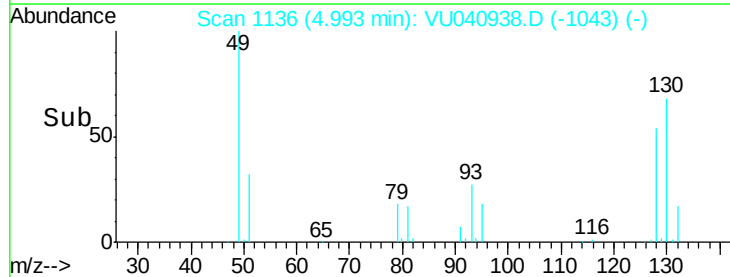
Ion 49.10 (48.80 to 49.80): VU040938.D (-1043) (-)

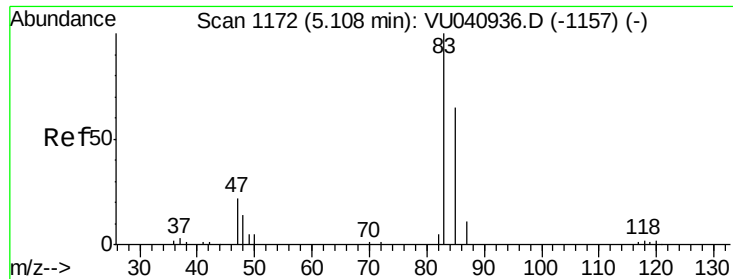
Ion 129.95 (129.65 to 130.65): VU040938.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VU040938.D (-1043) (-)



Time-->

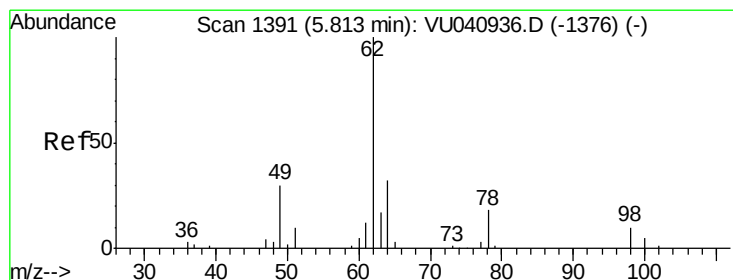
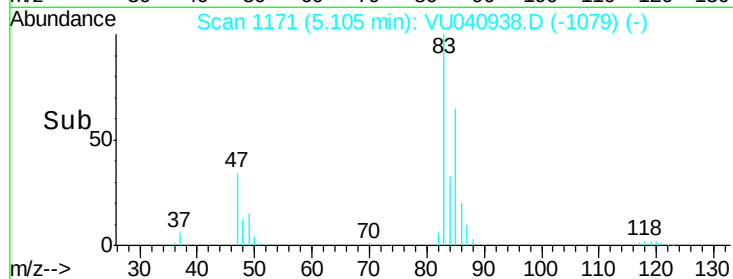
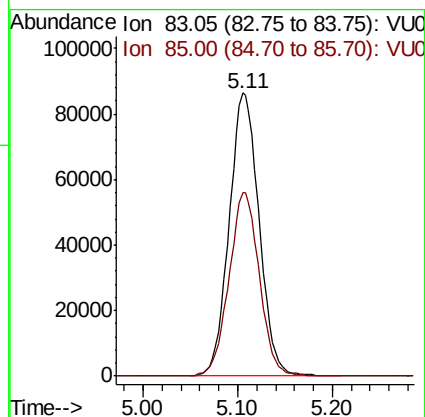
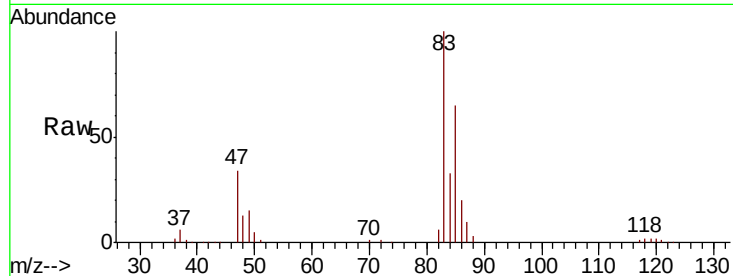




#25
Chloroform
Concen: 18.038 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

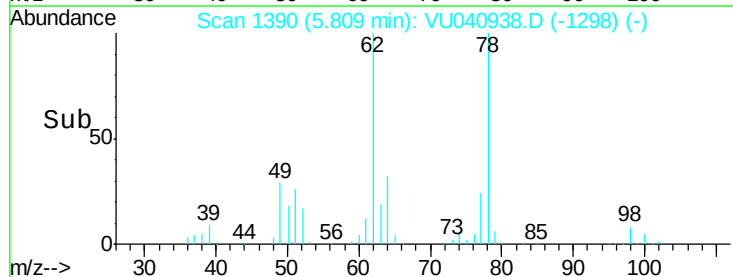
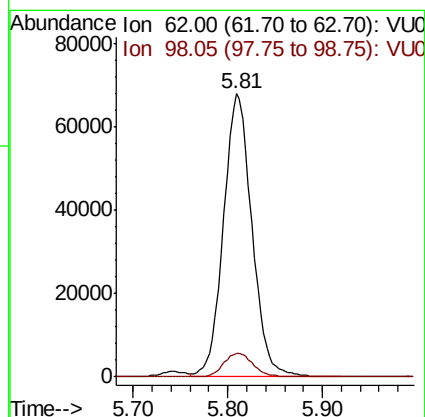
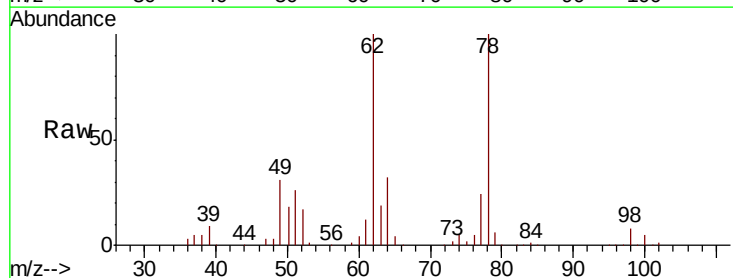
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

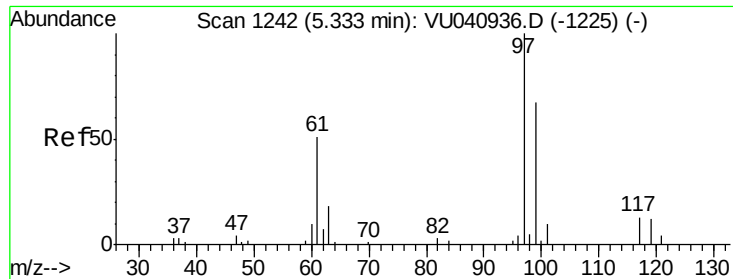
Tot Ion: 83 Resp: 189632
Ion Ratio Lower Upper
83 100
85 64.9 46.1 85.7



#27
1,2-Dichloroethane
Concen: 19.622 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion: 62 Resp: 142506
Ion Ratio Lower Upper
62 100
98 8.3 7.6 11.4

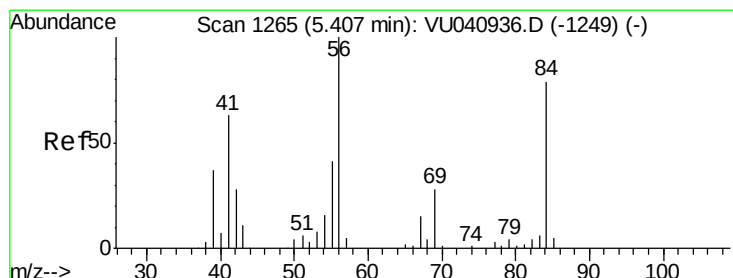
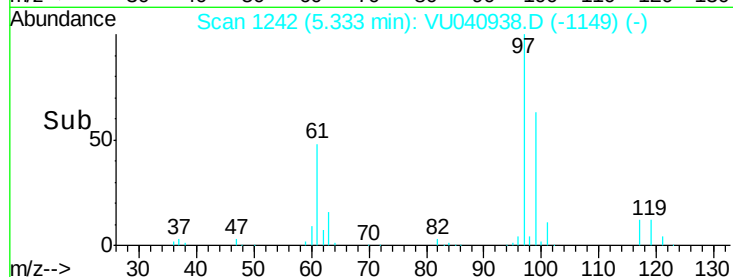
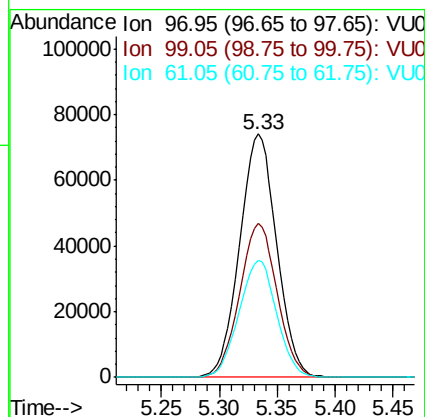
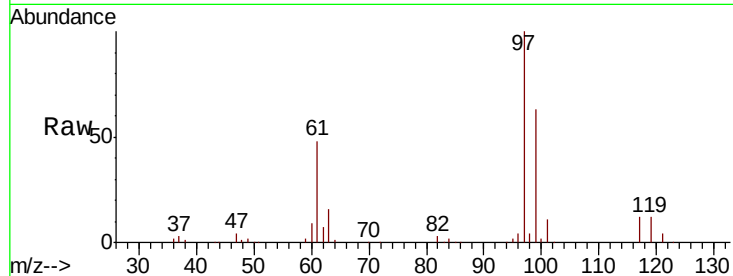




#29
1,1,1-Trichloroethane
Concen: 19.515 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

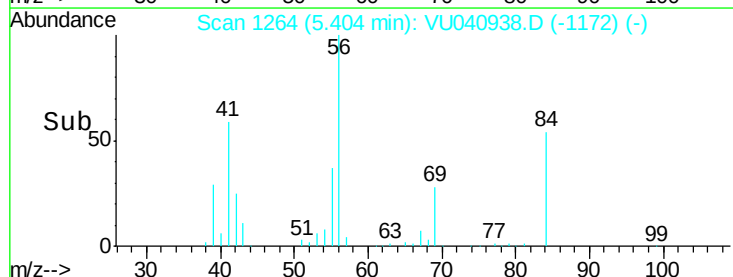
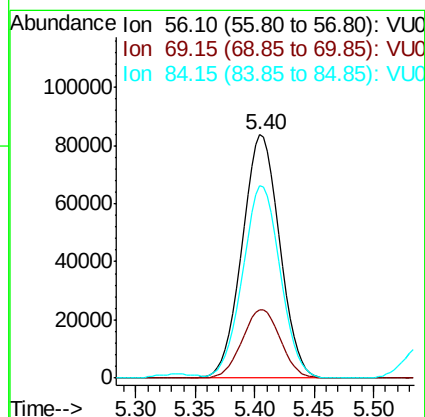
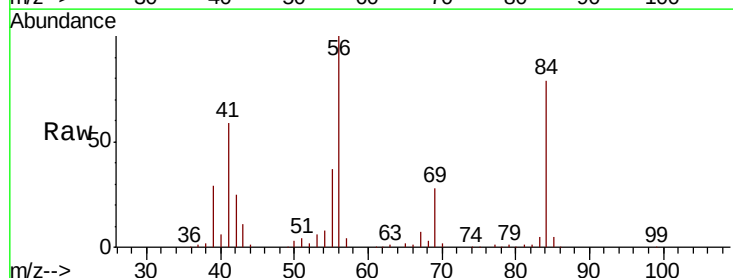
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

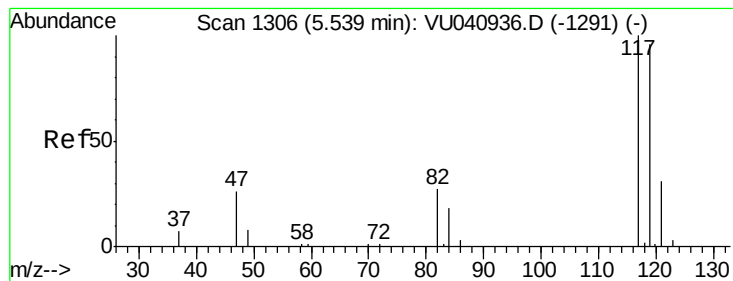
Tot Ion: 97 Resp: 164284
Ion Ratio Lower Upper
97 100
99 64.1 53.4 80.0
61 48.9 41.6 62.4



#30
Cyclohexane
Concen: 21.754 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion: 56 Resp: 183321
Ion Ratio Lower Upper
56 100
69 28.6 22.8 34.2
84 79.2 63.6 95.4





#31

Carbon tetrachloride

Concen: 19.164 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

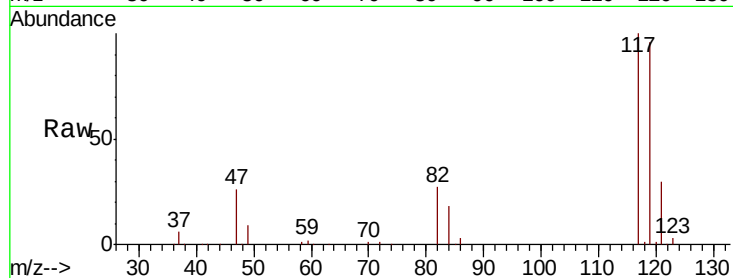
VSTD02005

Tot Ion:117 Resp: 143190

Ion Ratio Lower Upper

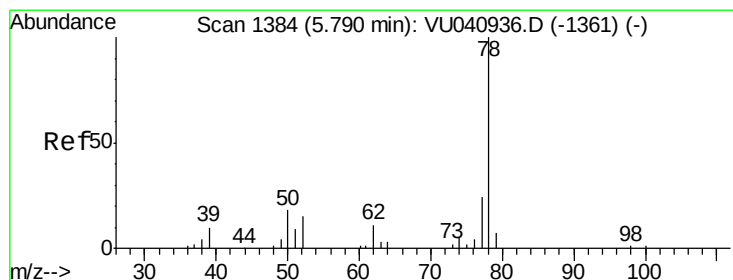
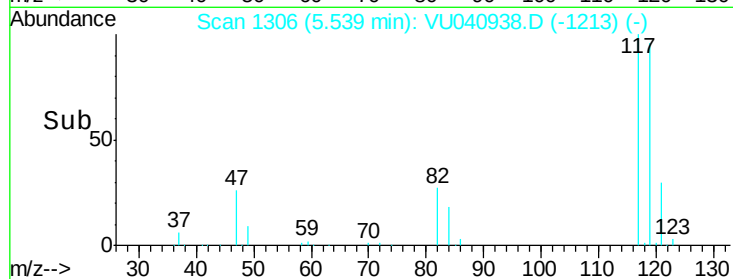
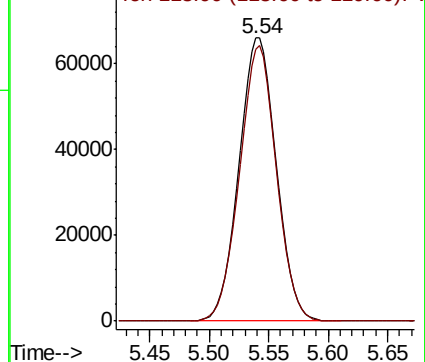
117 100

119 95.9 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 19.509 ug/L

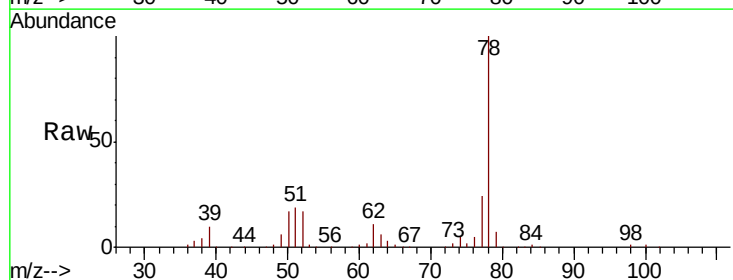
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

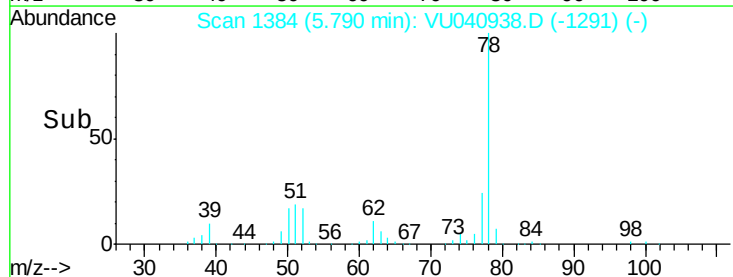
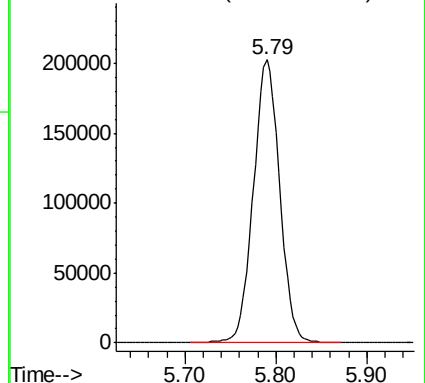
Lab File: VU040938.D

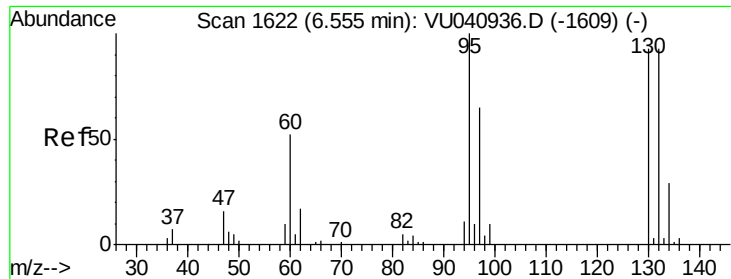
Acq: 26 Oct 2020 12:21

Tgt Ion: 78 Resp: 407477



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 19.253 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

Tot Ion: 95 Resp: 102995

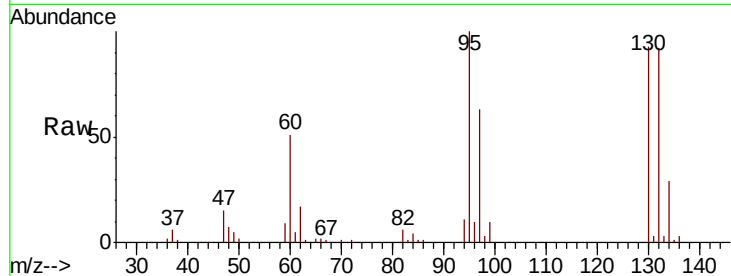
Ion Ratio Lower Upper

95 100

97 63.4 45.6 84.6

132 91.6 64.8 120.4

130 93.0 64.8 120.4

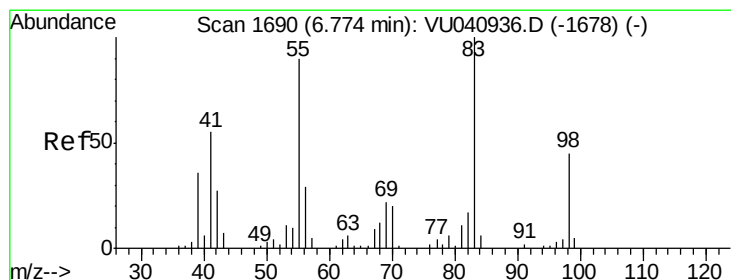
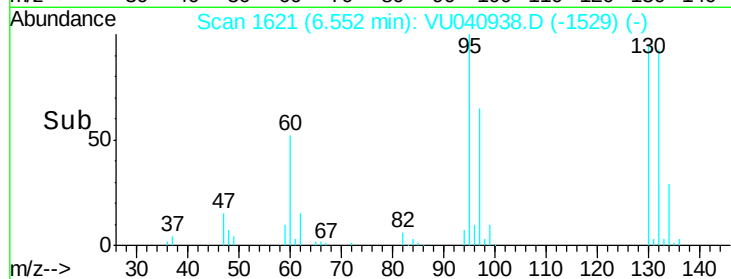
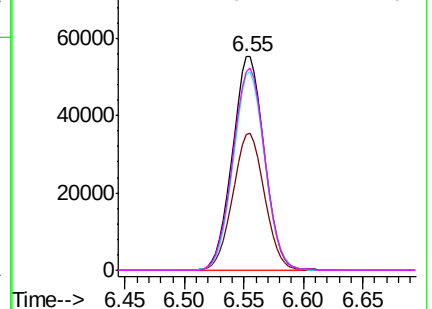


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 21.881 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

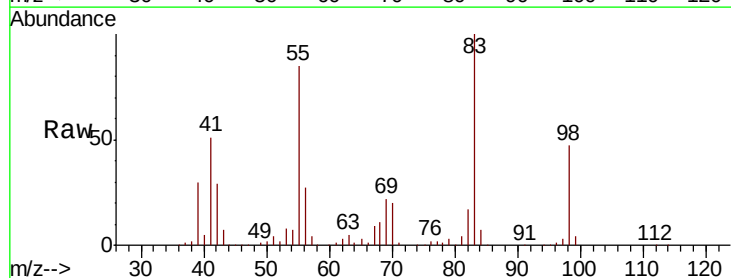
Tgt Ion: 83 Resp: 174210

Ion Ratio Lower Upper

83 100

55 85.8 72.0 108.0

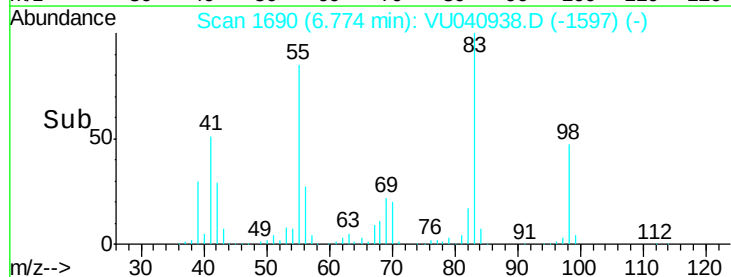
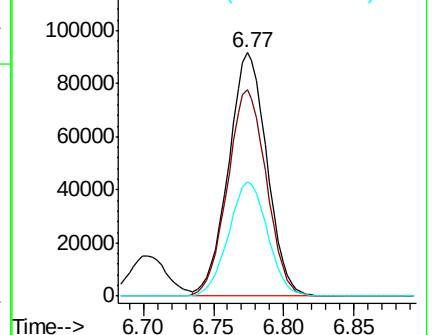
98 47.7 36.6 55.0

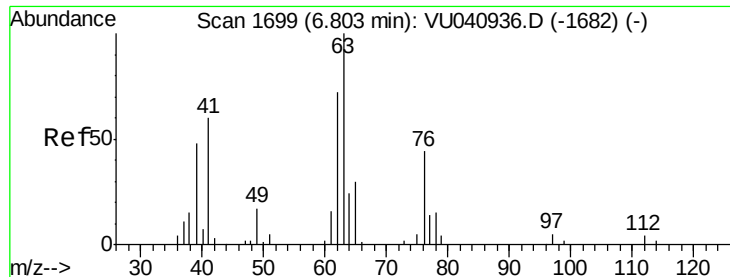


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

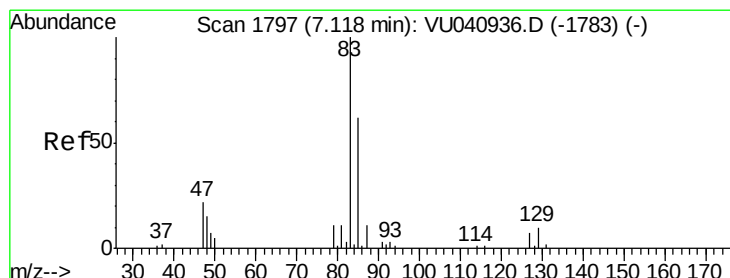
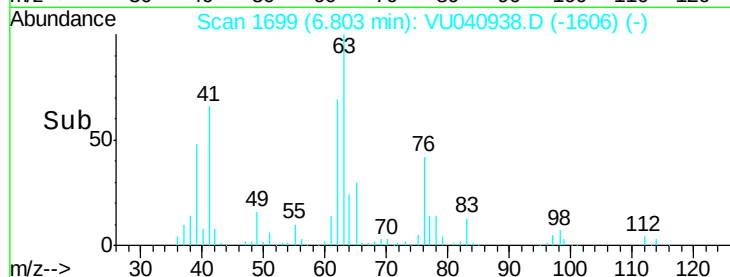
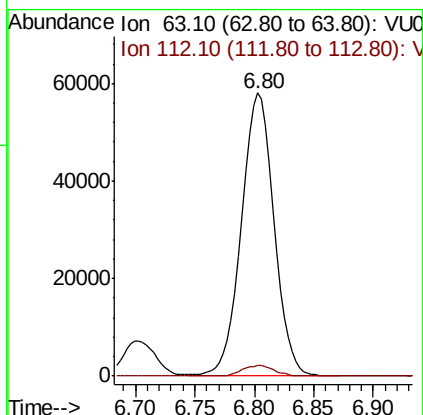
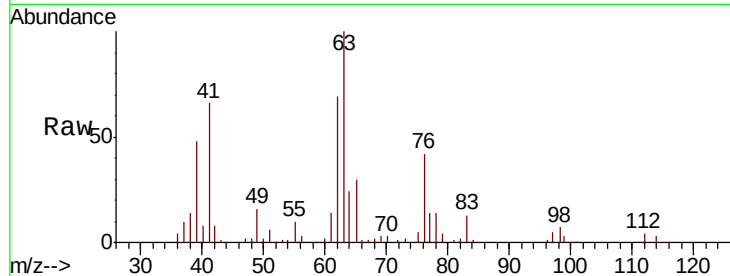




#37
 1,2-Dichloropropane
 Concen: 19.453 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

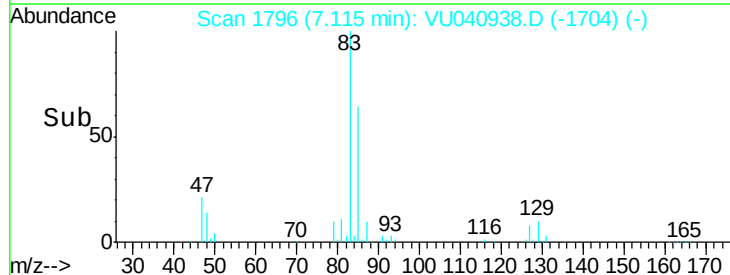
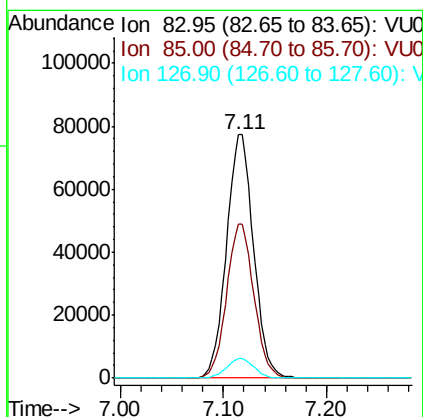
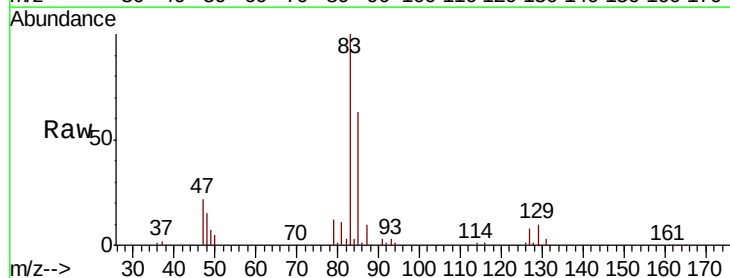
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

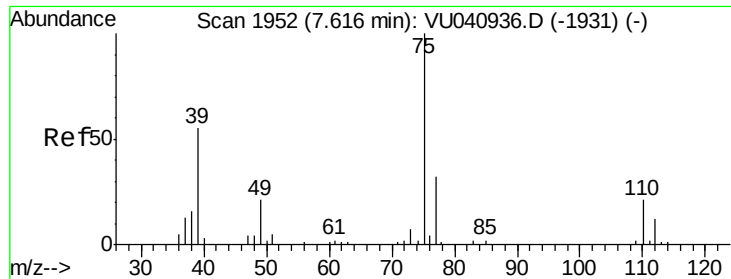
Tot Ion: 63 Resp: 110035
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.6 5.4



#38
 Bromodichloromethane
 Concen: 19.578 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

Tgt Ion: 83 Resp: 141507
 Ion Ratio Lower Upper
 83 100
 85 63.2 43.3 80.3
 127 8.0 5.9 8.9

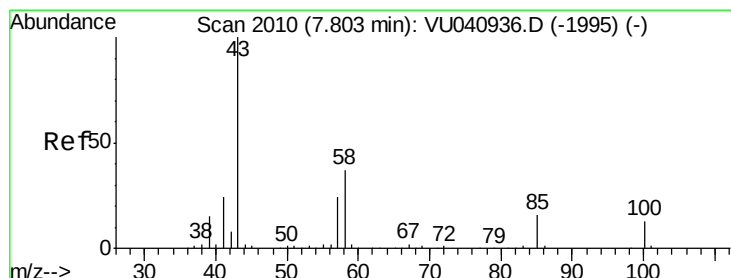
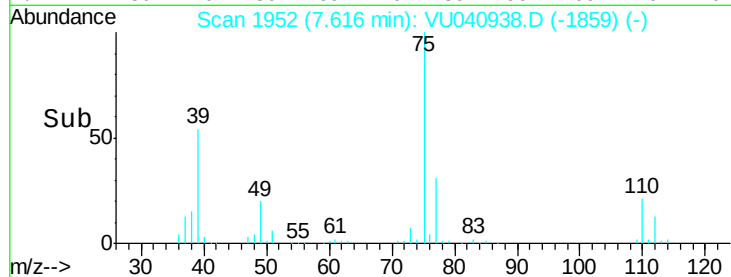
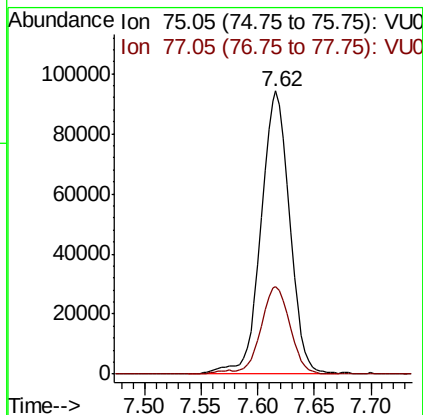
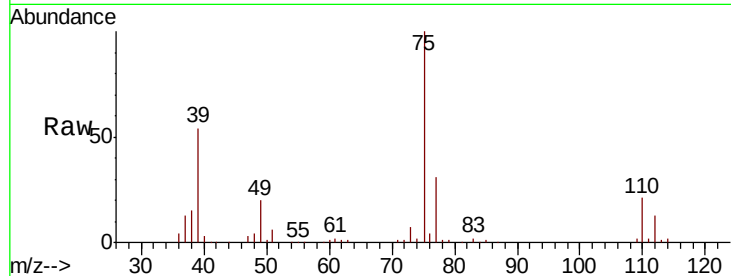




#39
 cis-1,3-Dichloropropene
 Concen: 21.829 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

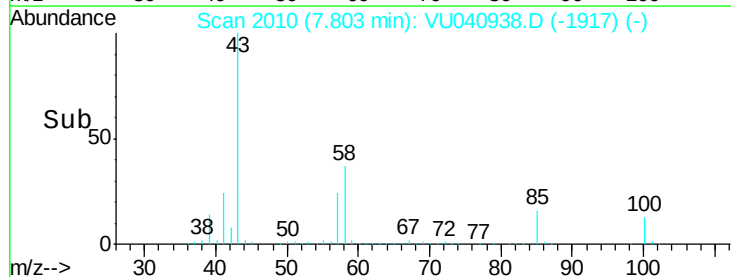
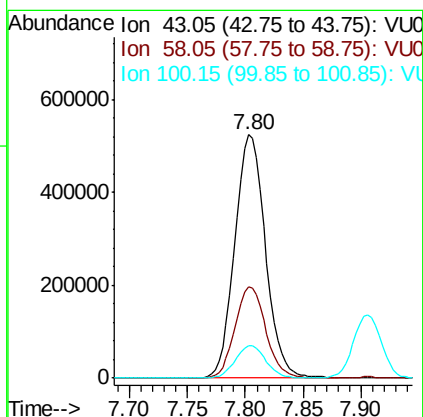
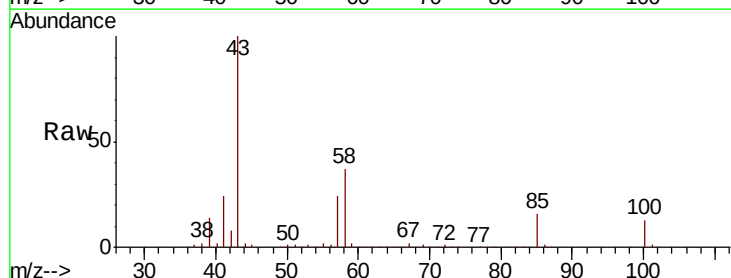
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD02005

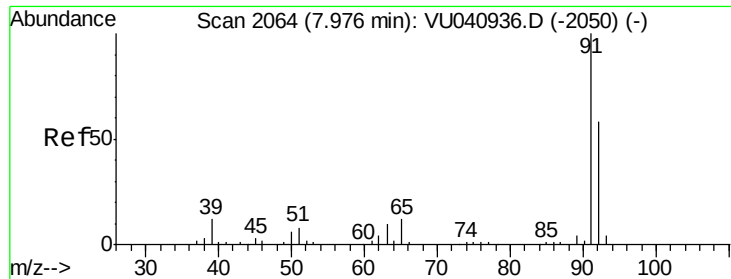
Tot Ion: 75 Resp: 165897
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 244.989 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

Tgt Ion: 43 Resp: 962744
 Ion Ratio Lower Upper
 43 100
 58 37.6 29.8 44.6
 100 13.4 10.5 15.7





#42

Toluene

Concen: 20.116 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

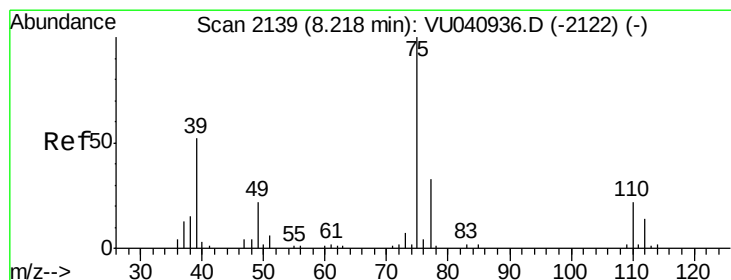
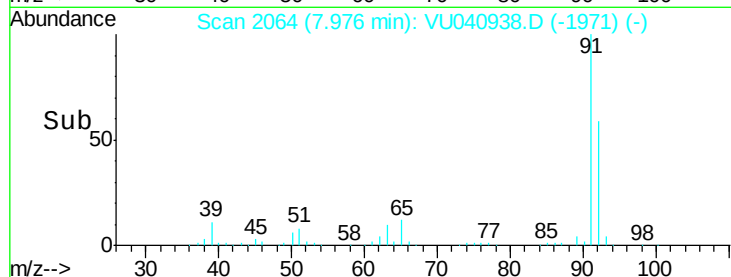
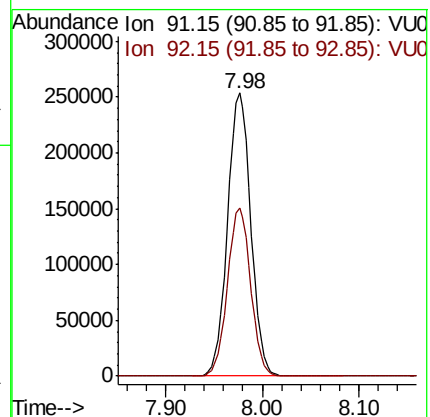
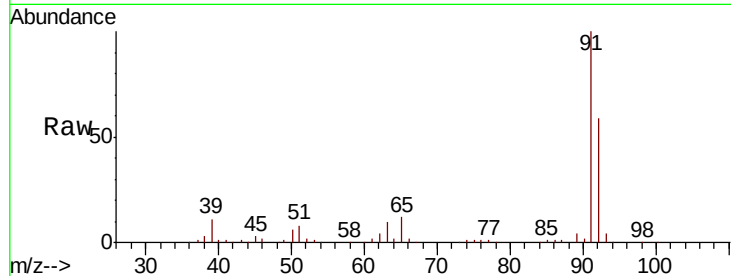
VSTD02005

Tot Ion: 91 Resp: 423640

Ion Ratio Lower Upper

91 100

92 59.3 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 22.154 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU040938.D

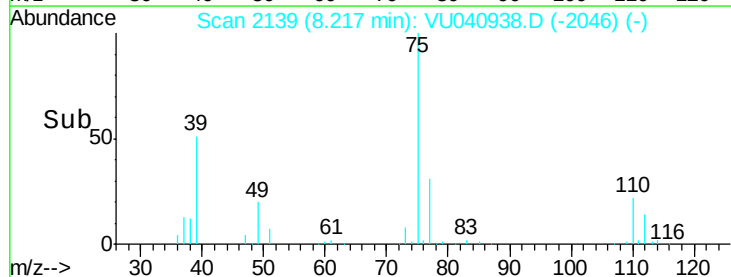
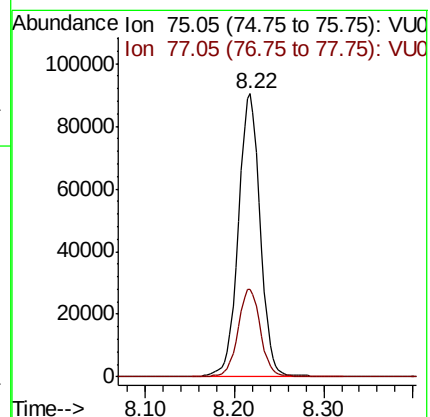
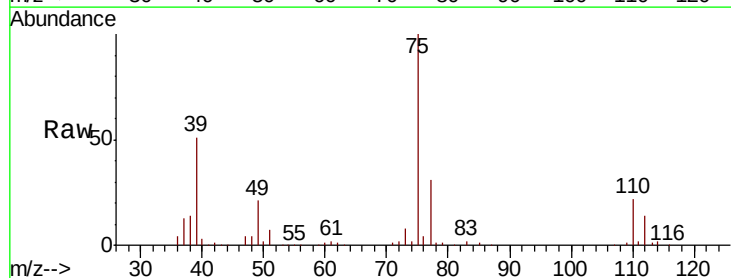
Acq: 26 Oct 2020 12:21

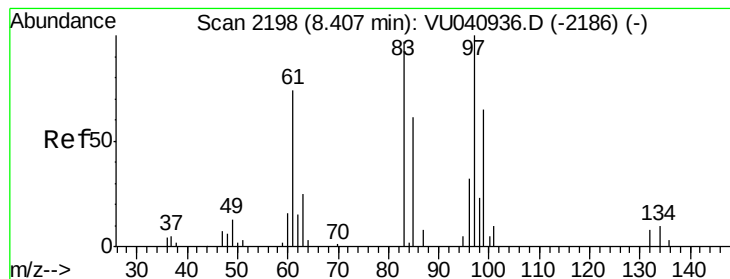
Tgt Ion: 75 Resp: 153488

Ion Ratio Lower Upper

75 100

77 31.1 23.3 43.3





#45

1,1,2-Trichloroethane

Concen: 20.470 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

Tot Ion: 97 Resp: 79737

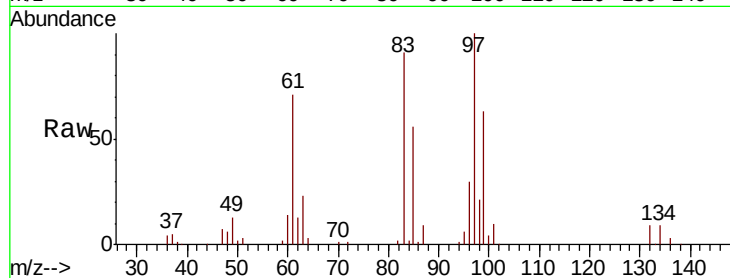
Ion Ratio Lower Upper

97 100

99 63.5 45.8 85.2

83 90.7 67.9 126.1

85 55.5 42.8 79.6

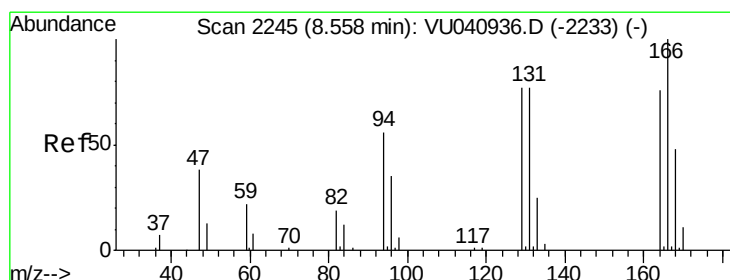
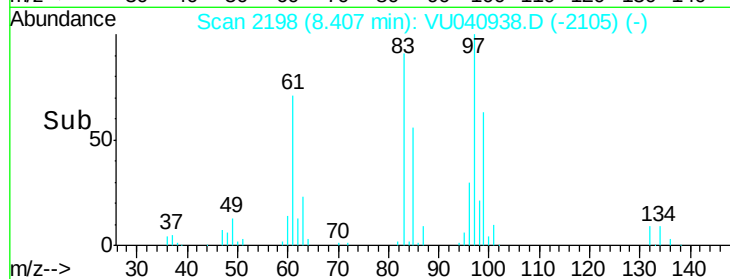
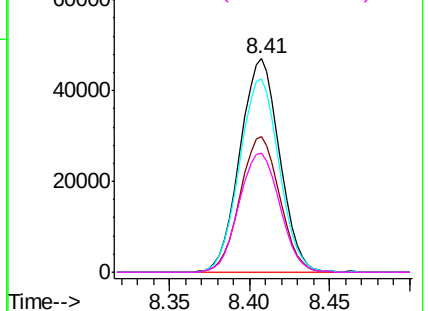


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 18.937 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Tgt Ion: 164 Resp: 75055

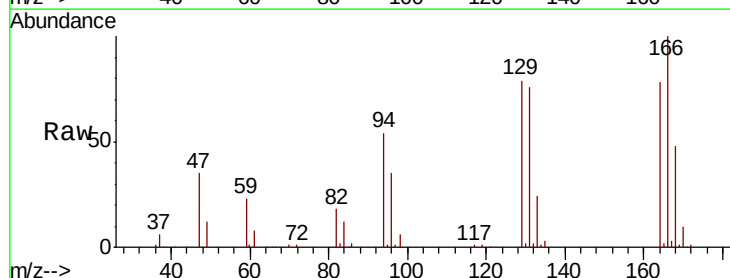
Ion Ratio Lower Upper

164 100

129 101.3 70.3 130.7

131 97.2 70.8 131.4

166 128.0 92.0 170.8

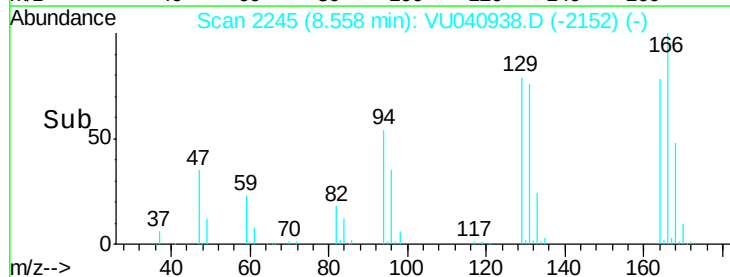
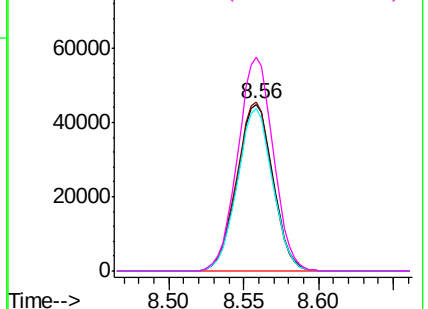


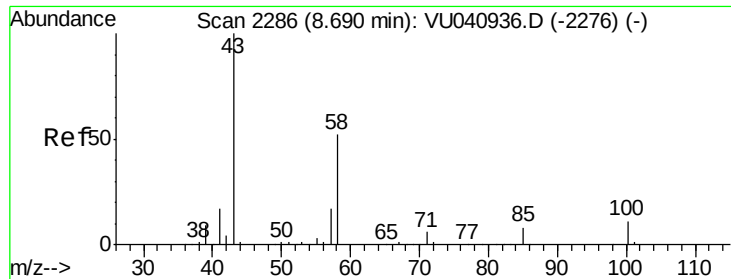
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

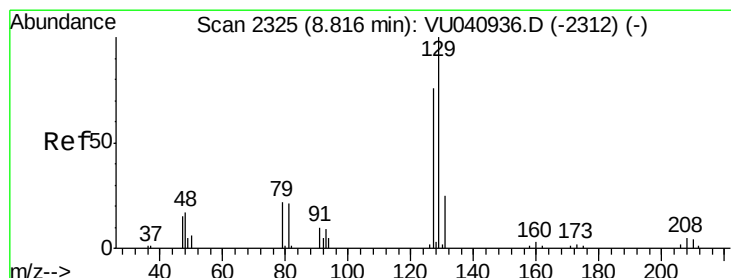
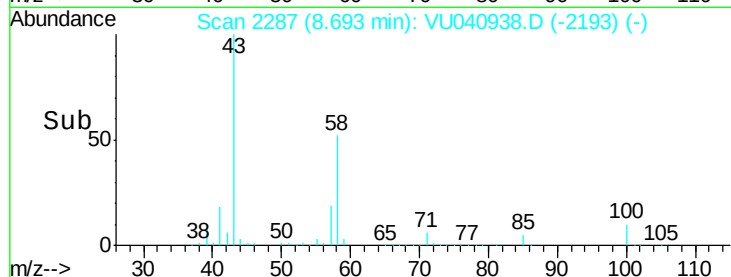
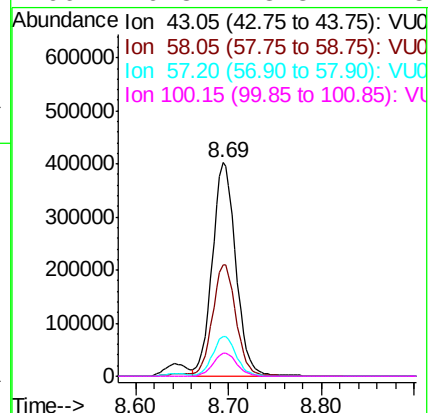
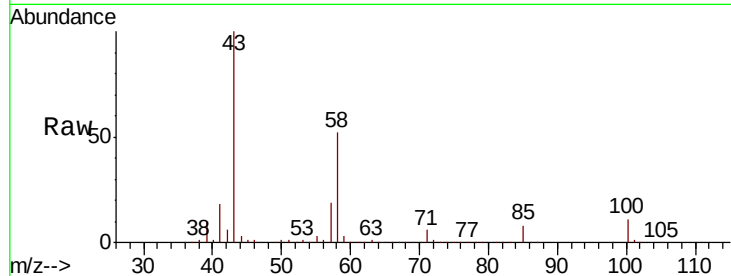




#48
2-Hexanone
Concen: 244.995 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

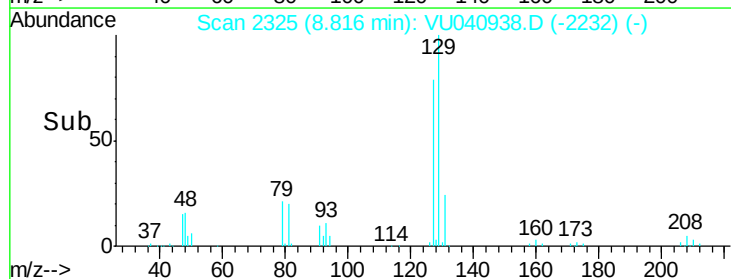
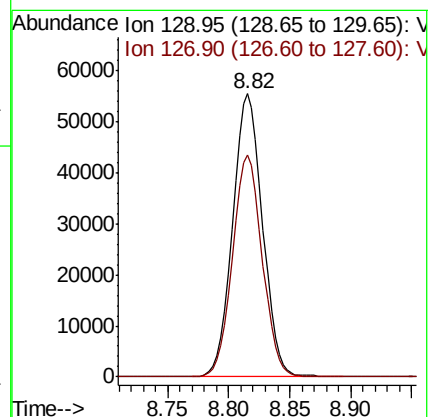
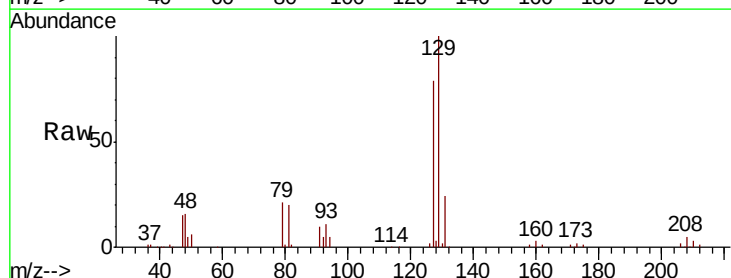
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

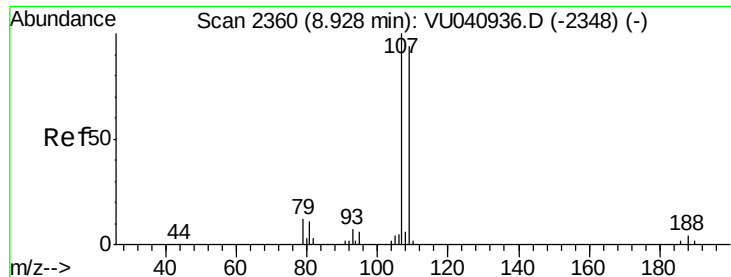
Tot Ion: 43 Resp: 707291
Ion Ratio Lower Upper
43 100
58 52.3 41.4 62.2
57 18.8 14.6 21.8
100 10.8 8.3 12.5



#49
Dibromochloromethane
Concen: 20.374 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion: 129 Resp: 94584
Ion Ratio Lower Upper
129 100
127 78.5 53.4 99.2

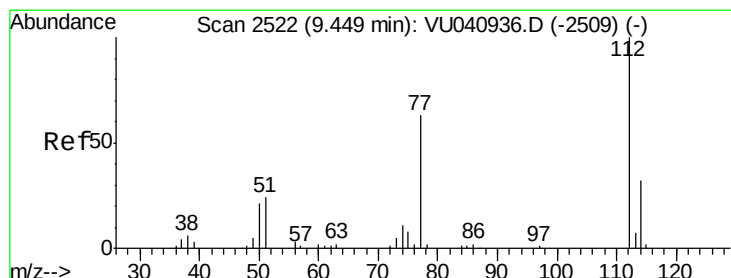
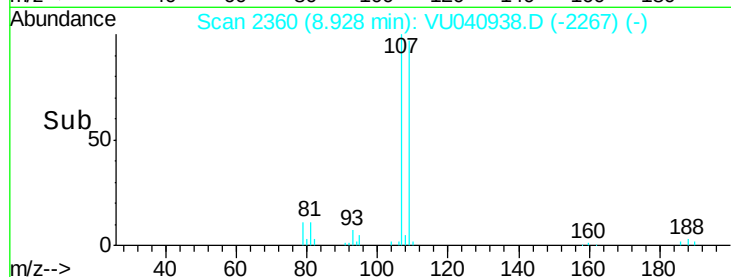
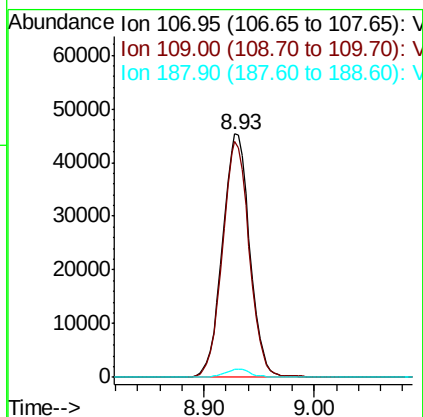
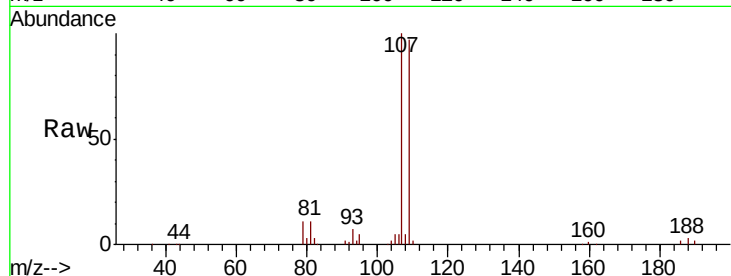




#50
1,2-Dibromoethane
Concen: 21.243 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

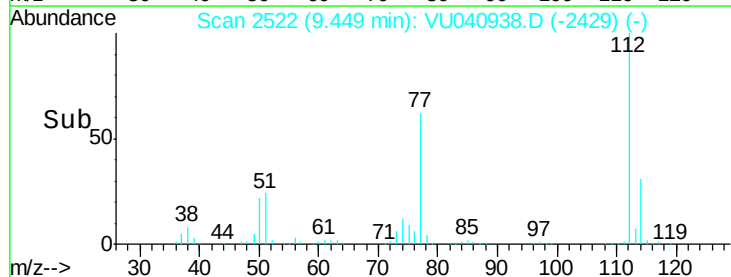
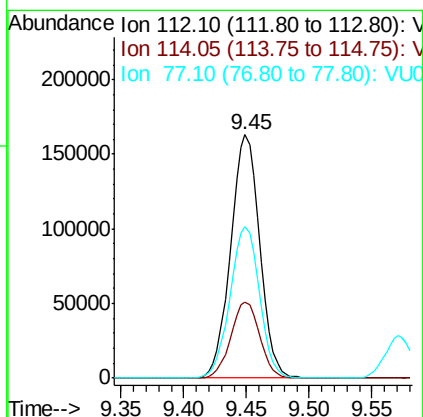
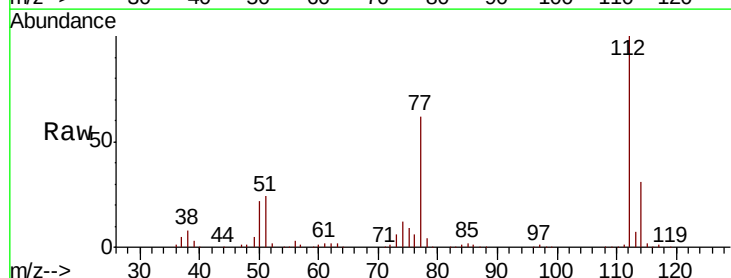
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

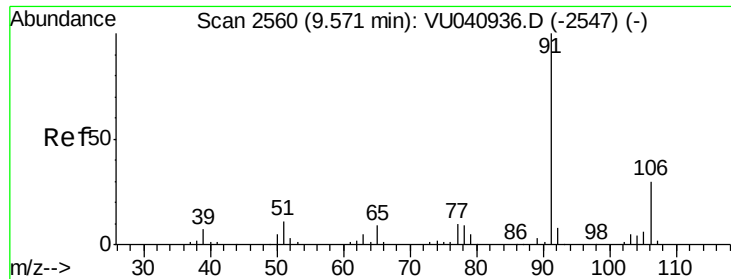
Tot Ion:107 Resp: 77577
Ion Ratio Lower Upper
107 100
109 97.1 65.6 121.8
188 3.2 2.9 4.3



#51
Chlorobenzene
Concen: 19.321 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion:112 Resp: 262305
Ion Ratio Lower Upper
112 100
114 31.4 22.4 41.6
77 62.4 51.2 76.8

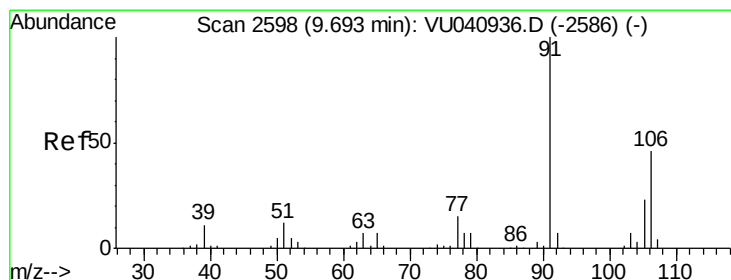
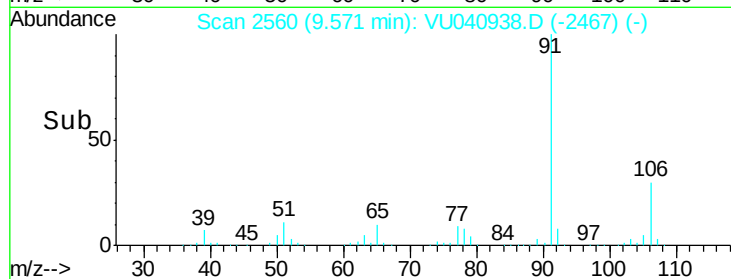
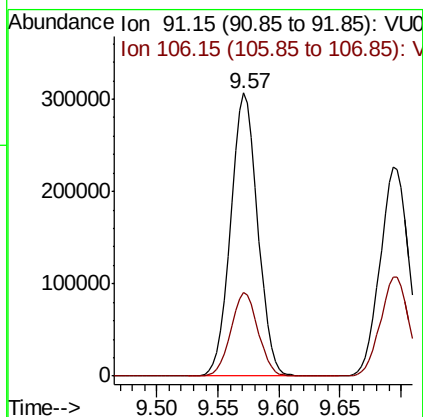
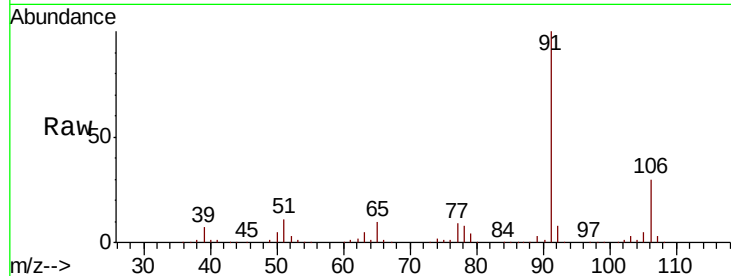




#52
Ethylbenzene
Concen: 20.961 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

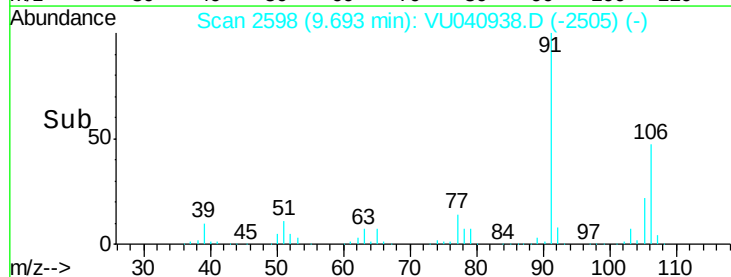
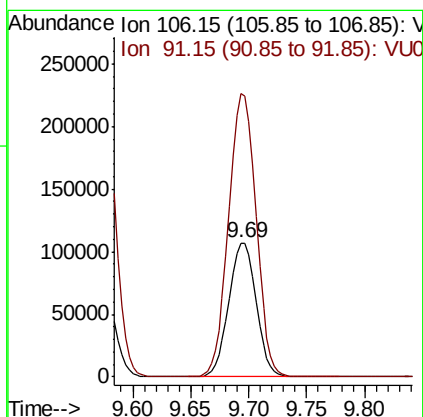
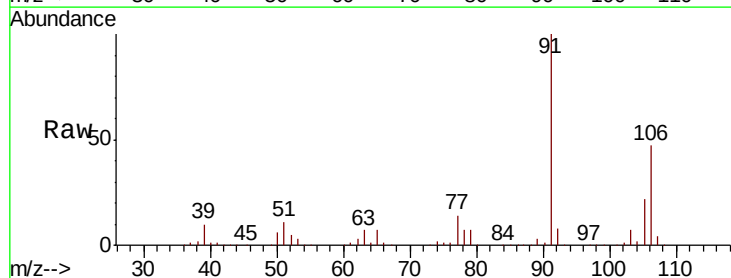
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

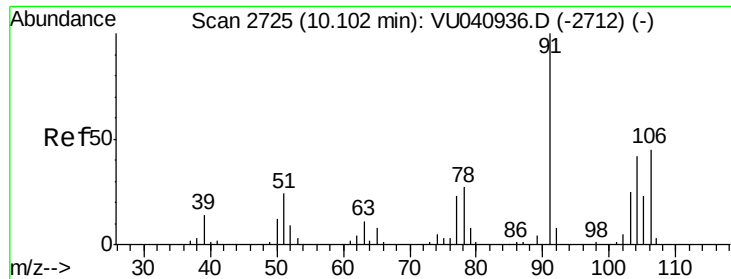
Tot Ion: 91 Resp: 474793
Ion Ratio Lower Upper
91 100
106 29.5 21.0 39.0



#53
m,p-Xylene
Concen: 21.484 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion: 106 Resp: 174409
Ion Ratio Lower Upper
106 100
91 210.8 150.9 280.3

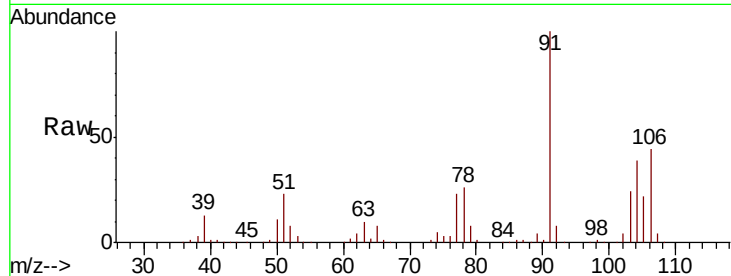




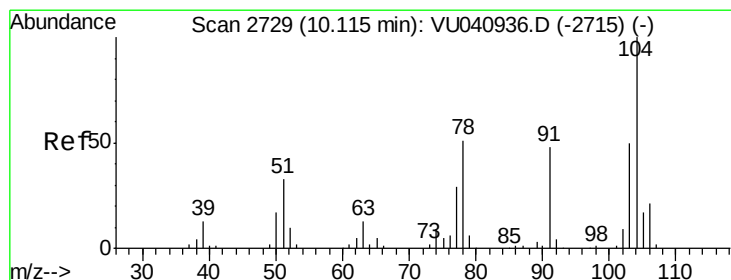
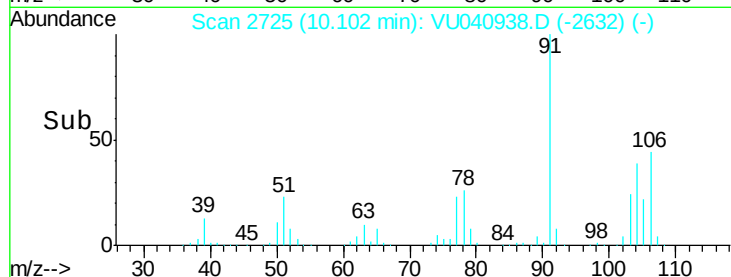
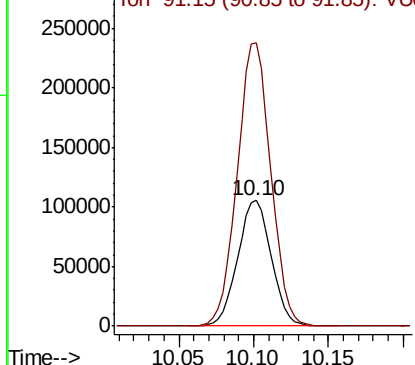
#54
o-Xylene
Concen: 21.366 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

Tot Ion:106 Resp: 165101
Ion Ratio Lower Upper
106 100
91 225.0 154.3 286.5

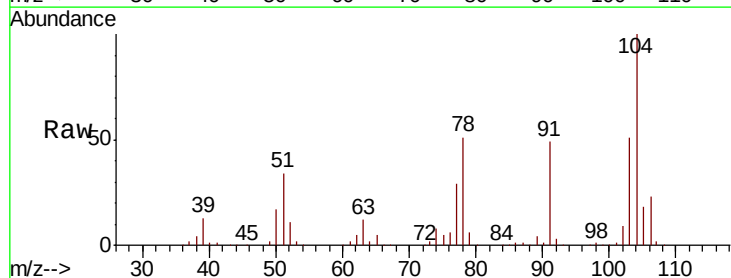


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

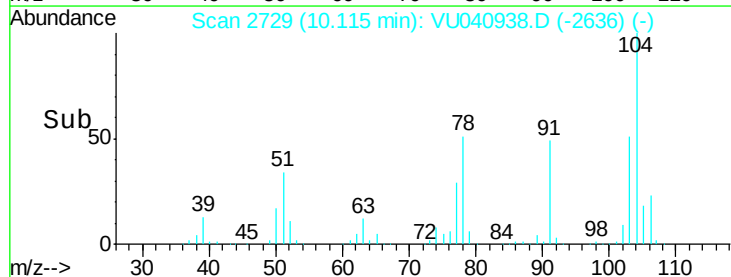
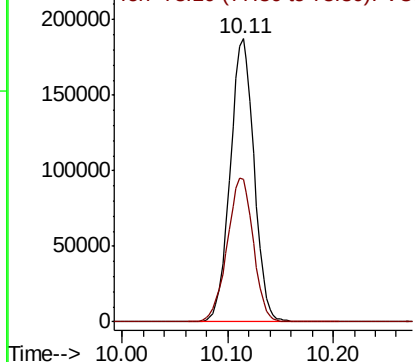


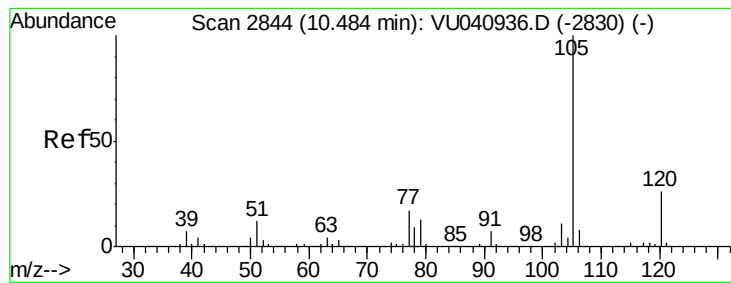
#55
Styrene
Concen: 21.781 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040938.D
Acq: 26 Oct 2020 12:21

Tgt Ion:104 Resp: 293346
Ion Ratio Lower Upper
104 100
78 50.6 35.5 65.9



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





#56

Isopropylbenzene

Concen: 21.787 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

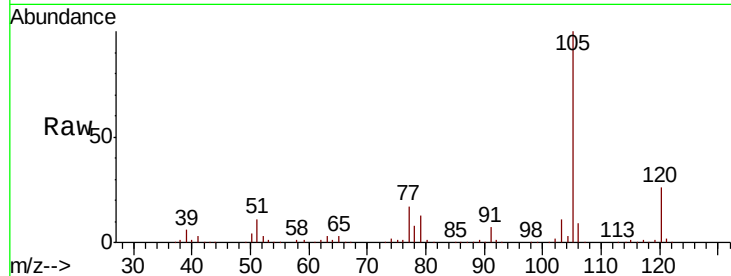
Tot Ion:105 Resp: 448615

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

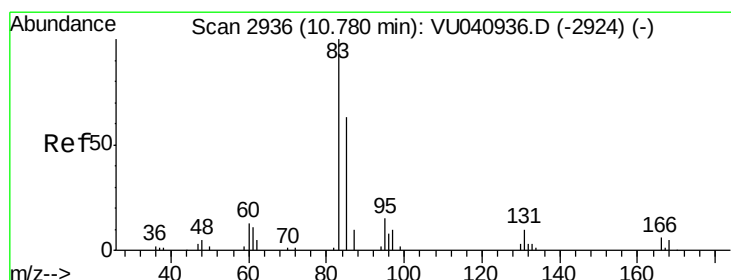
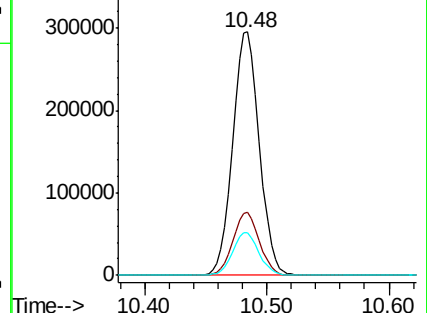
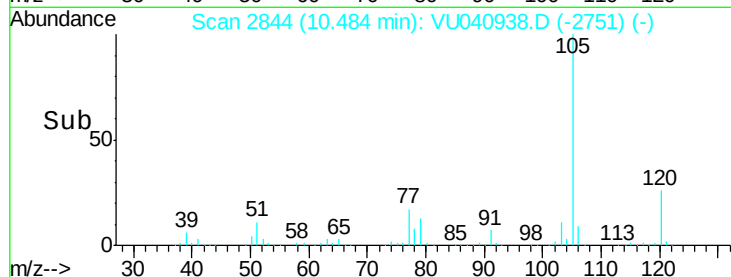
77 17.5 13.8 20.6



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: 21.824 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

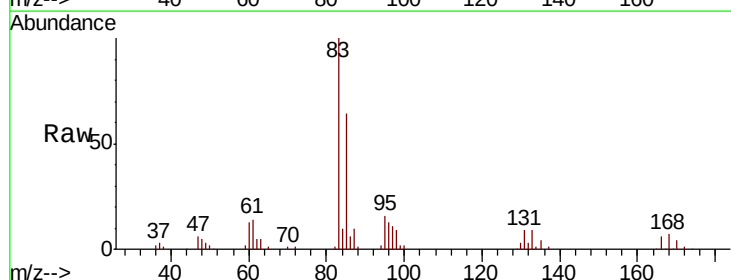
Tgt Ion: 83 Resp: 109632

Ion Ratio Lower Upper

83 100

85 63.7 44.4 82.4

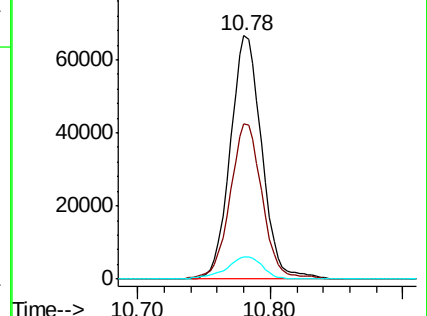
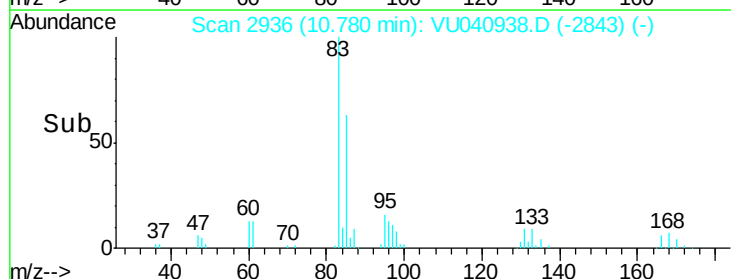
131 9.3 7.7 11.5

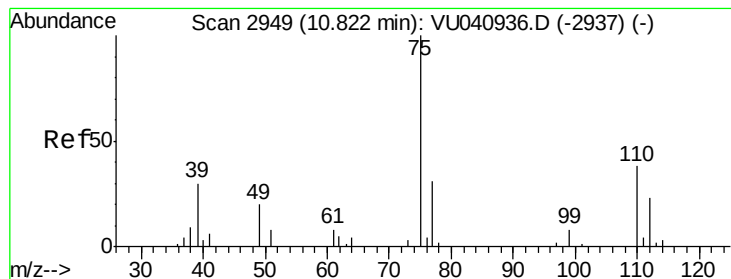


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 21.750 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

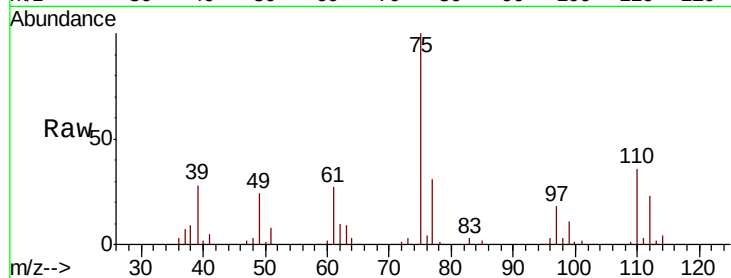
VSTD02005

Tot Ion: 75 Resp: 82227

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU040936.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU040936.D (-2937) (-)

10.82

60000

50000

40000

30000

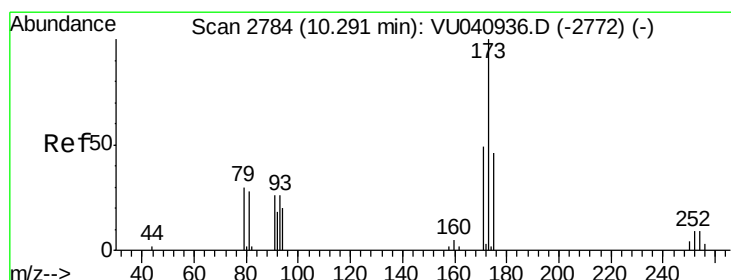
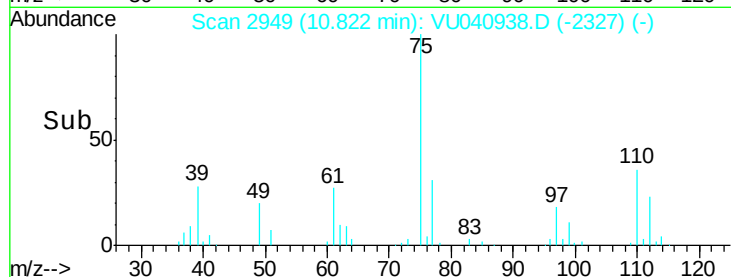
20000

10000

0

Time-->

10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 21.218 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

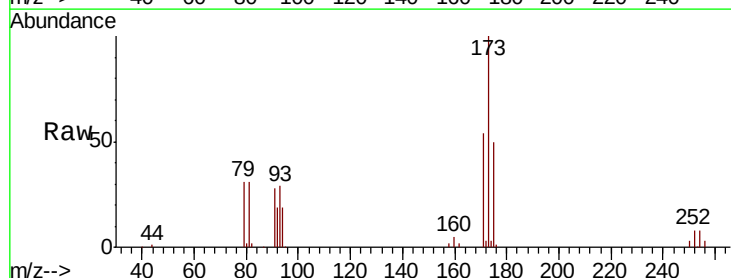
Tgt Ion: 173 Resp: 54553

Ion Ratio Lower Upper

173 100

175 48.4 37.6 56.4

254 8.2 6.6 9.8



Abundance Ion 172.90 (172.60 to 173.60): VU040936.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU040936.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU040936.D (-2772) (-)

10.29

40000

30000

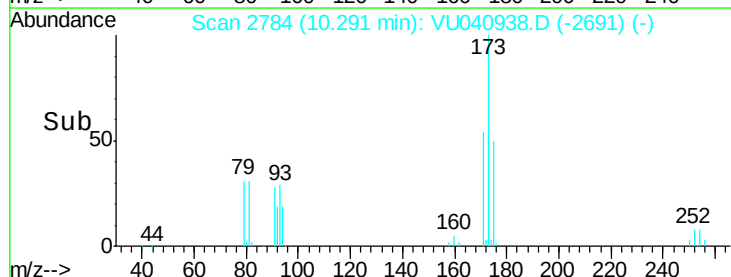
20000

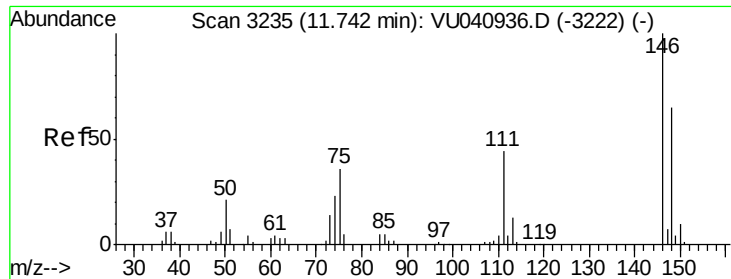
10000

0

Time-->

10.20 10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 19.093 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

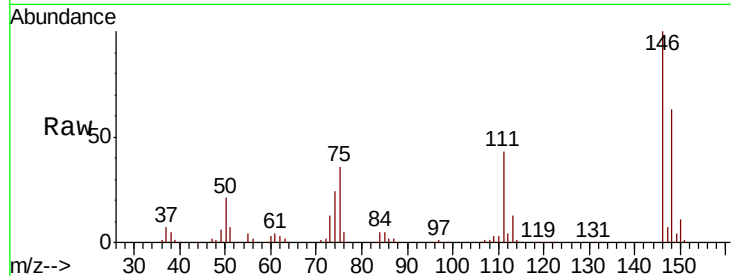
Tot Ion:146 Resp: 205830

Ion Ratio Lower Upper

146 100

111 43.5 30.9 57.3

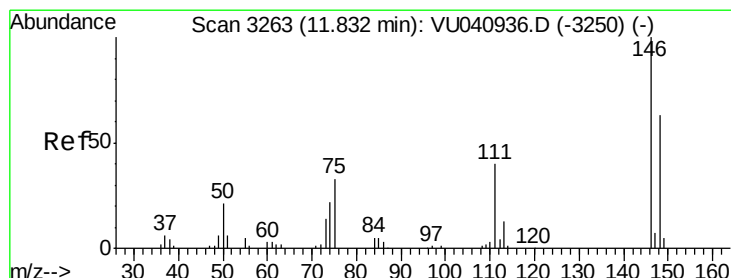
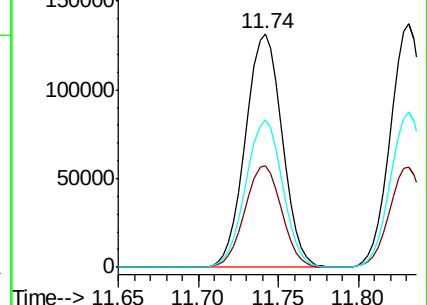
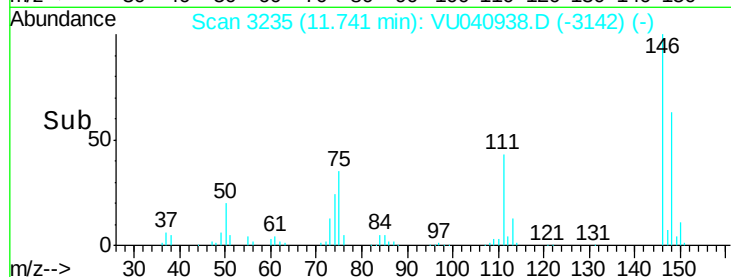
148 63.2 45.8 85.2



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: 18.979 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

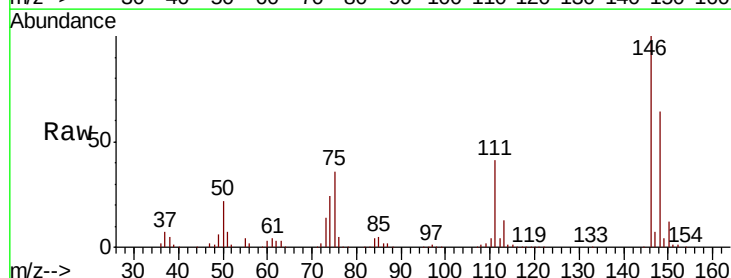
Tgt Ion:146 Resp: 211021

Ion Ratio Lower Upper

146 100

111 41.2 28.3 52.7

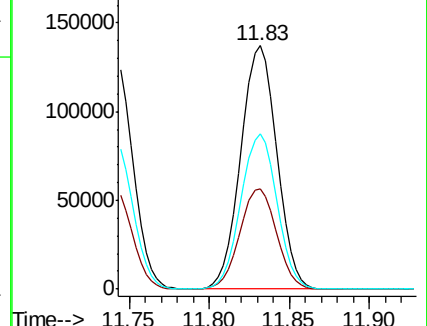
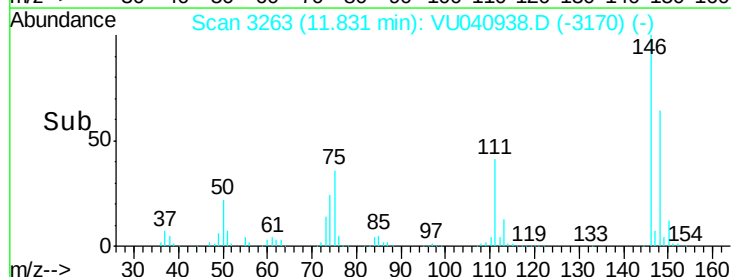
148 63.6 44.2 82.2

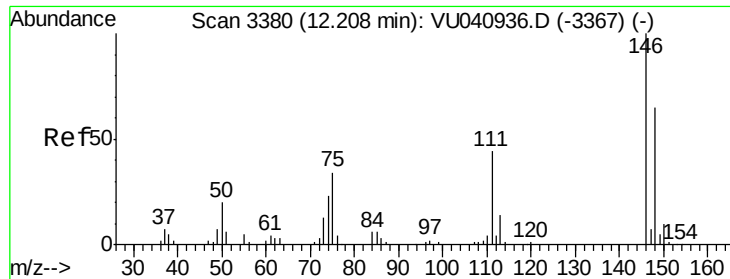


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 19.779 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

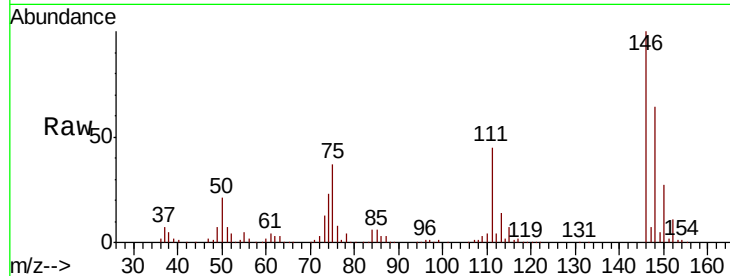
Tot Ion:146 Resp: 201666

Ion Ratio Lower Upper

146 100

111 45.1 35.0 52.6

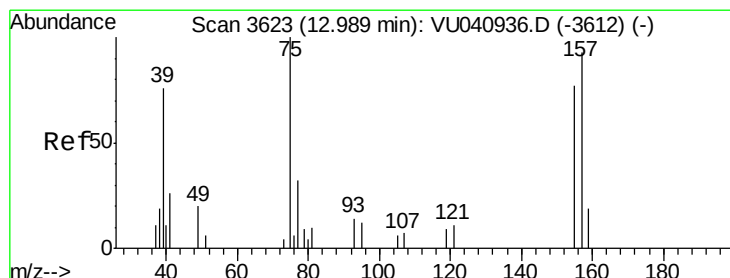
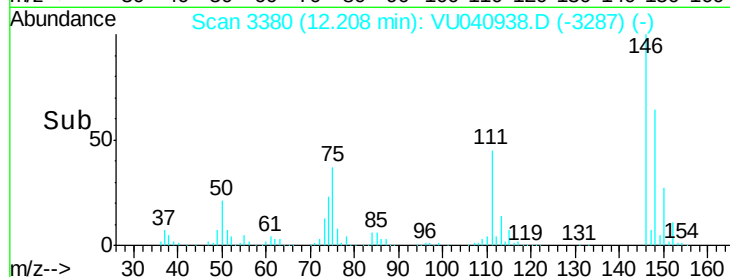
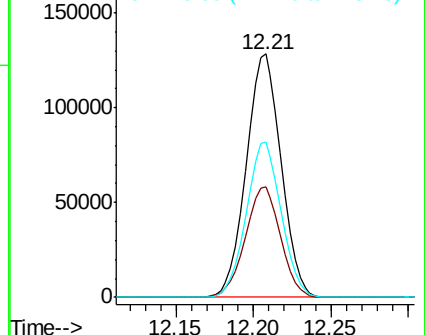
148 63.7 52.0 78.0



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: 21.347 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

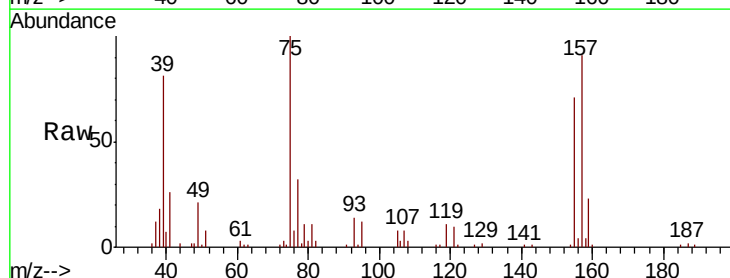
Tgt Ion: 75 Resp: 20785

Ion Ratio Lower Upper

75 100

155 70.5 61.4 92.2

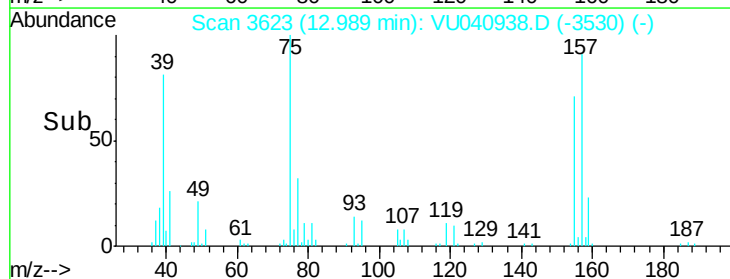
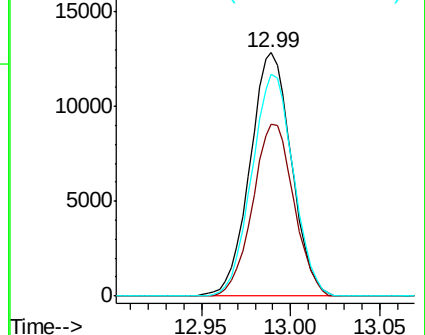
157 90.9 74.2 111.4

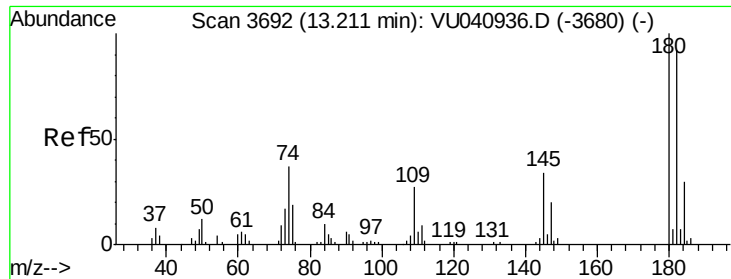


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

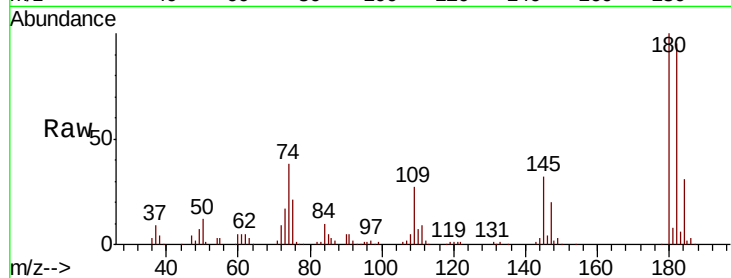




#67
 1,3,5-Trichlorobenzene
 Concen: 19.053 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

Tot Ion	180	Resp	150807
Ion Ratio	Lower	Upper	
180	100		
182	94.6	75.7	113.5
184	30.3	23.7	35.5
145	31.7	26.1	39.1

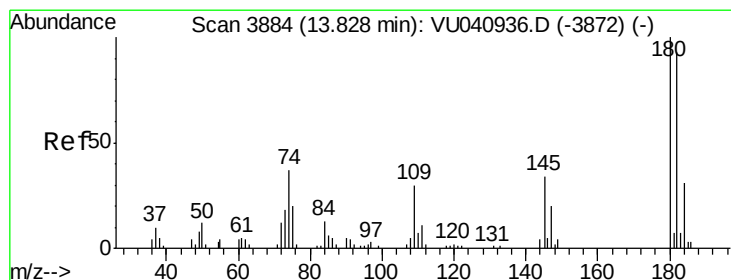
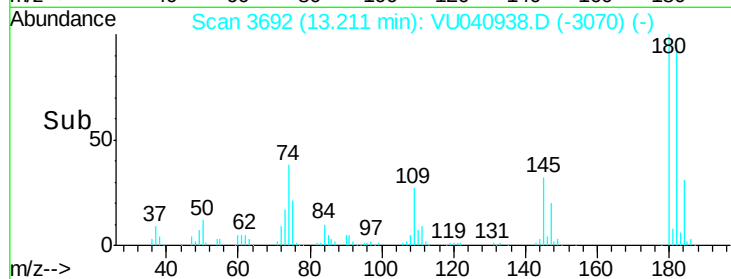
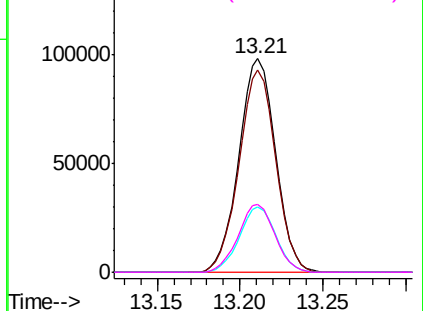


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

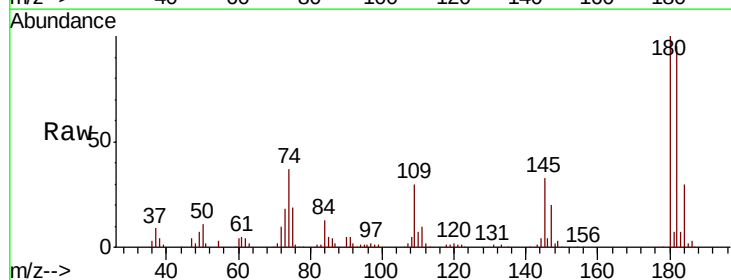
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 20.423 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040938.D
 Acq: 26 Oct 2020 12:21

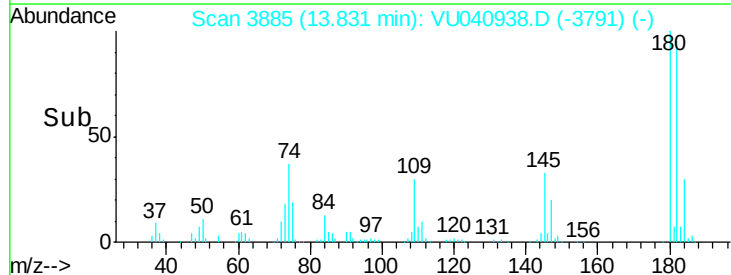
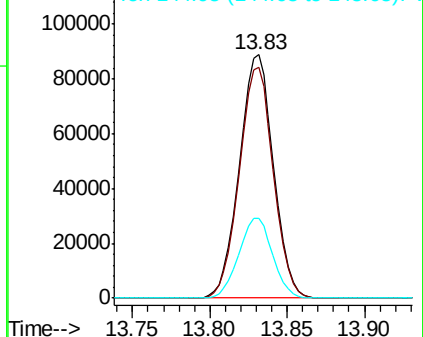
Tgt Ion	180	Resp	135653
Ion Ratio	Lower	Upper	
180	100		
182	94.8	73.5	110.3
145	32.6	26.6	40.0

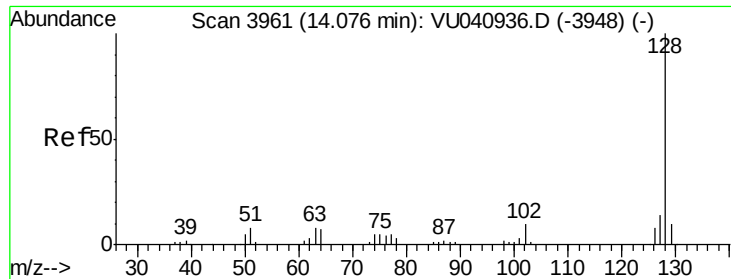


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 24.337 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

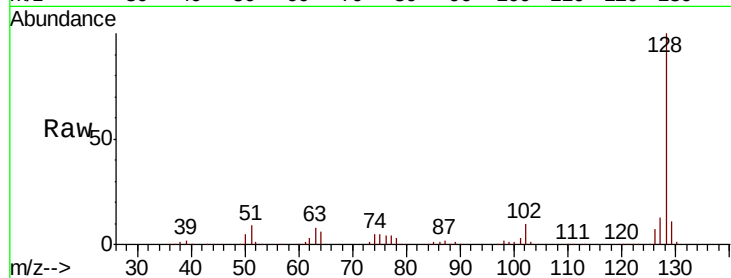
Tot Ion:128 Resp: 295464

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

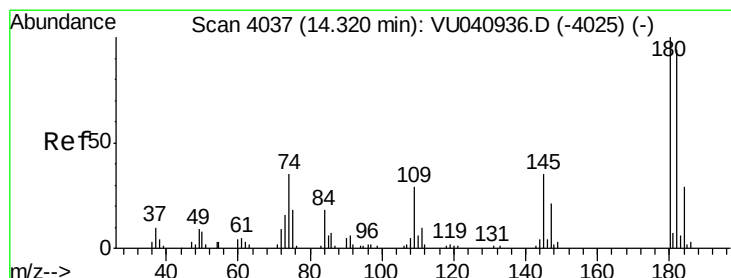
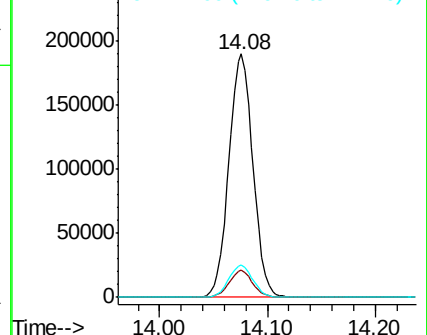
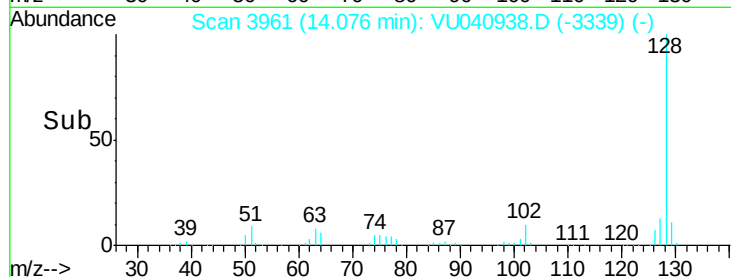
127 13.2 10.8 16.2



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: 19.832 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040938.D

Acq: 26 Oct 2020 12:21

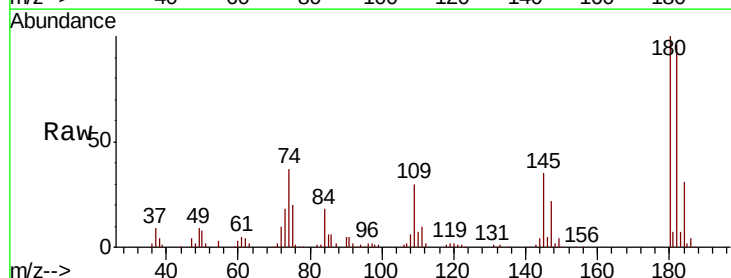
Tgt Ion:180 Resp: 127267

Ion Ratio Lower Upper

180 100

182 95.7 77.7 116.5

145 35.2 29.4 44.0



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

