

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101520\
 Data File : VU040710.D
 Acq On : 15 Oct 2020 10:33
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Quant Time: Oct 16 04:26:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 15 05:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	125801	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	125918	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	66530	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	47954	4.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.00%
7) Chloroethane-d5	1.92	69	40957	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.00%
11) 1,1-Dichloroethene-d2	2.58	63	101322	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.40%
20) 2-Butanone-d5	4.66	46	174625	52.35	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.70%
24) Chloroform-d	5.08	84	95954	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.00%
26) 1,2-Dichloroethane-d4	5.72	65	57560	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.74	84	176647	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.00%
36) 1,2-Dichloropropane-d6	6.70	67	58393	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.90	98	160796	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
43) trans-1,3-Dichloropropene-	8.18	79	24662	5.16	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.20%
46) 2-Hexanone-d5	8.64	63	127567	51.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.66%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51362	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	60381	4.89	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	57275	5.025	ug/L 99
3) Chloromethane	1.53	50	49482	4.642	ug/L 96
5) Vinyl chloride	1.61	62	53503	4.766	ug/L 98
6) Bromomethane	1.87	94	27605	4.529	ug/L 93
8) Chloroethane	1.94	64	34664	4.850	ug/L 97
9) Trichlorofluoromethane	2.15	101	81940	5.083	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	53899	5.151	ug/L 98
12) 1,1-Dichloroethene	2.59	96	45468	5.065	ug/L 89
13) Acetone	2.67	43	133780	51.739	ug/L 98
14) Carbon disulfide	2.81	76	108468	4.317	ug/L 99
15) Methyl Acetate	2.97	43	28695	4.860	ug/L 97
16) Methylene chloride	3.06	84	56001	4.859	ug/L 95
17) Methyl tert-butyl Ether	3.38	73	125470	4.943	ug/L 100
18) trans-1,2-Dichloroethene	3.37	96	44711	4.758	ug/L 94
19) 1,1-Dichloroethane	3.89	63	99799	5.136	ug/L 98
21) 2-Butanone	4.74	43	205737	51.036	ug/L 96
22) cis-1,2-Dichloroethene	4.68	96	51701	5.102	ug/L 96

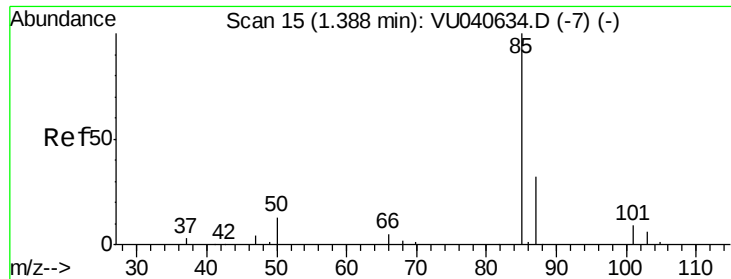
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101520\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	25889	5.143	ug/L	96
25) Chloroform	5.10	83	108042	5.446	ug/L	99
27) 1,2-Dichloroethane	5.81	62	71609	5.099	ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	87720	5.184	ug/L	98
30) Cyclohexane	5.40	56	73365	4.705	ug/L	99
31) Carbon tetrachloride	5.54	117	74652	5.155	ug/L	99
33) Benzene	5.79	78	207532	5.130	ug/L	100
34) Trichloroethene	6.55	95	53378	5.090	ug/L	95
35) Methylcyclohexane	6.77	83	69251	4.657	ug/L	99
37) 1,2-Dichloropropane	6.80	63	58417	5.183	ug/L	100
38) Bromodichloromethane	7.11	83	76382	5.301	ug/L	99
39) cis-1,3-Dichloropropene	7.61	75	79240	5.145	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	459396	51.122	ug/L	100
42) Toluene	7.97	91	216462	5.251	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	73566	5.189	ug/L	96
45) 1,1,2-Trichloroethane	8.40	97	44003	5.213	ug/L	98
47) Tetrachloroethene	8.56	164	39478	5.277	ug/L	99
48) 2-Hexanone	8.69	43	353309	52.808	ug/L	99
49) Dibromochloromethane	8.81	129	53464	5.504	ug/L	92
50) 1,2-Dibromoethane	8.93	107	40563	5.066	ug/L	99
51) Chlorobenzene	9.45	112	137444	5.062	ug/L	98
52) Ethylbenzene	9.57	91	225202	5.048	ug/L	98
53) m,p-Xylene	9.69	106	86082	5.294	ug/L	99
54) o-Xylene	10.10	106	80316	5.136	ug/L	97
55) Styrene	10.11	104	148069	5.452	ug/L	99
56) Isopropylbenzene	10.48	105	218874	5.199	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	58663	5.293	ug/L	100
59) 1,2,3-Trichloropropane	10.82	75	42572	5.142	ug/L	97
61) Bromoform	10.29	173	29278	5.134	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	112458	5.165	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	113883	5.072	ug/L	98
65) 1,2-Dichlorobenzene	12.20	146	109262	5.133	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	9143	4.905	ug/L	91
67) 1,3,5-Trichlorobenzene	13.21	180	77366	5.007	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	60795	5.093	ug/L	97
69) Naphthalene	14.08	128	91753	4.699	ug/L	98
70) 1,2,3-Trichlorobenzene	14.32	180	57377	5.176	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.025 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

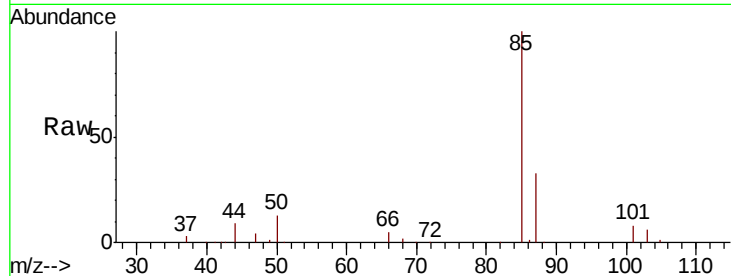
VSTD00511

Tot Ion: 85 Resp: 57275

Ion Ratio Lower Upper

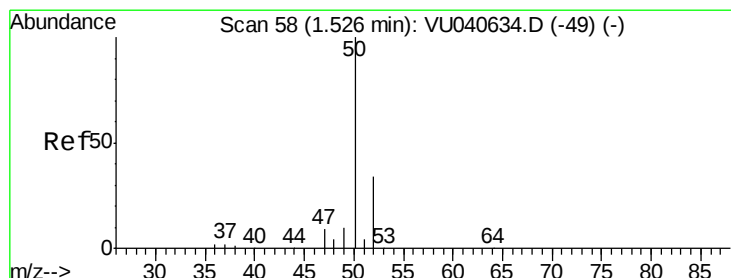
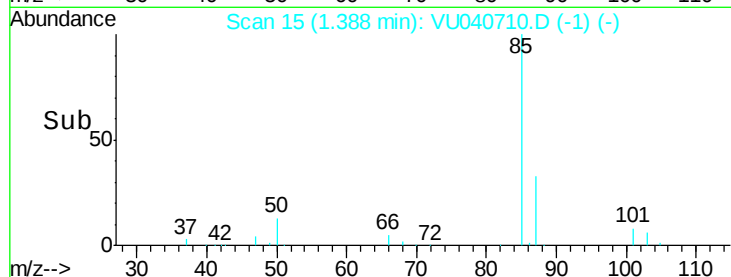
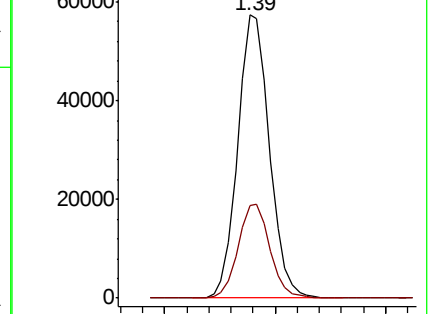
85 100

87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU040634.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040634.D (-7) (-)



#3

Chloromethane

Concen: 4.642 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040710.D

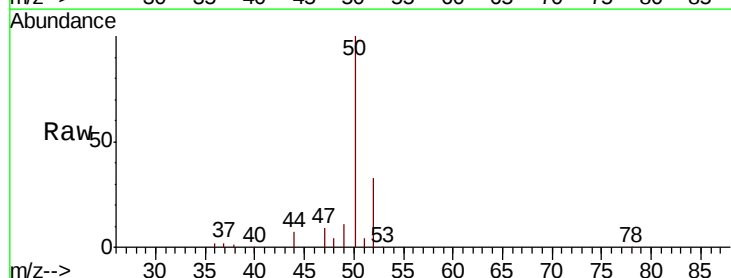
Acq: 15 Oct 2020 10:33

Tgt Ion: 50 Resp: 49482

Ion Ratio Lower Upper

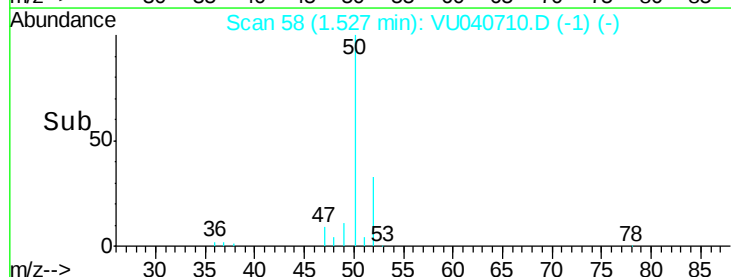
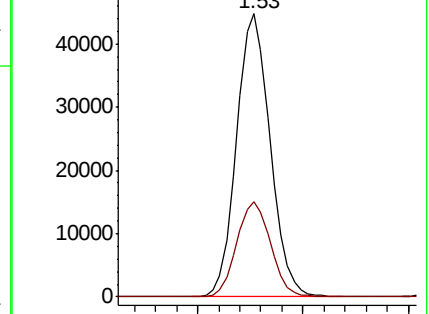
50 100

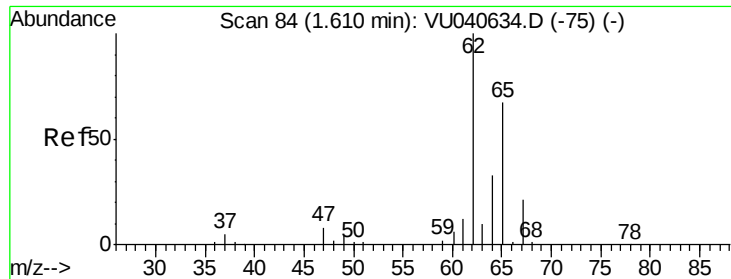
52 33.4 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU040634.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040634.D (-49) (-)





#5

Vinyl chloride

Concen: 4.766 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

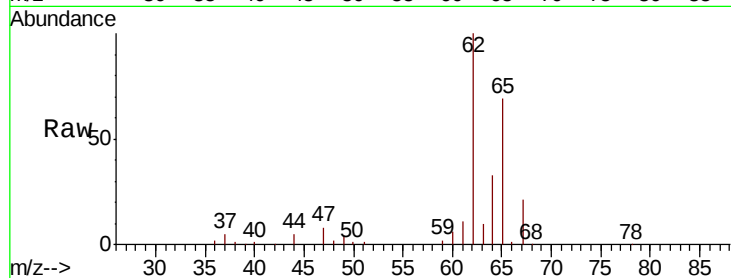
VSTD00511

Tot Ion: 62 Resp: 53503

Ion Ratio Lower Upper

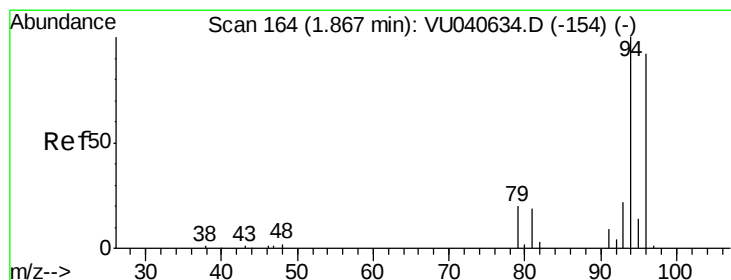
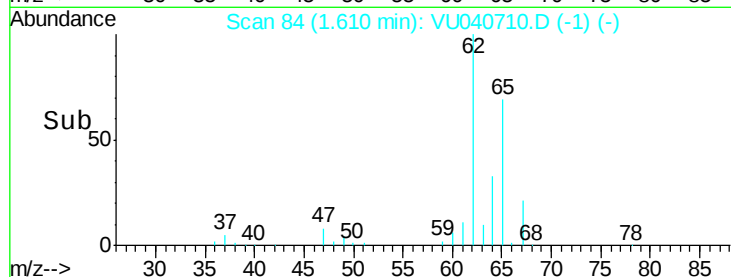
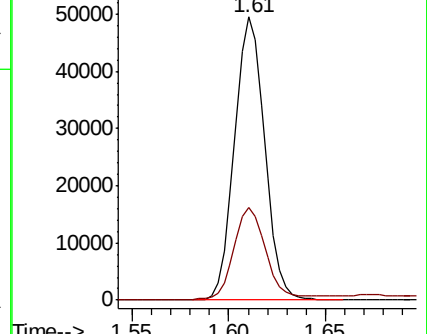
62 100

64 32.8 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 4.529 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040710.D

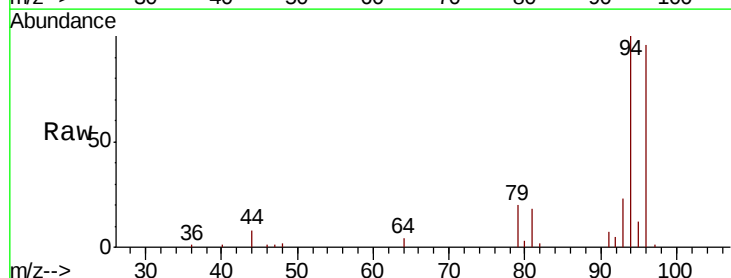
Acq: 15 Oct 2020 10:33

Tgt Ion: 94 Resp: 27605

Ion Ratio Lower Upper

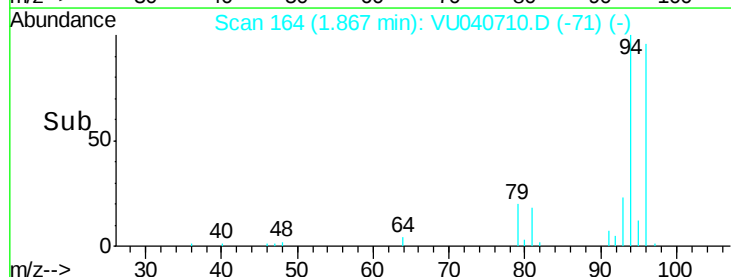
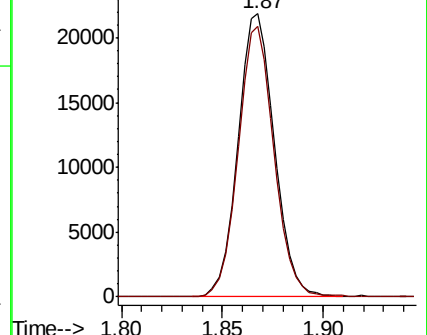
94 100

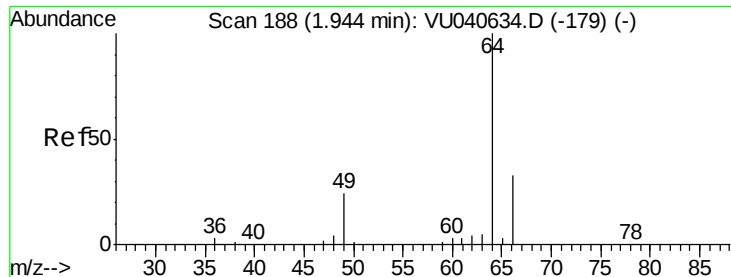
96 95.6 62.1 115.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.850 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

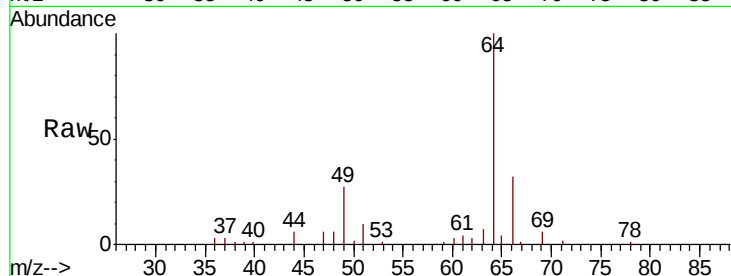
VSTD00511

Tot Ion: 64 Resp: 34664

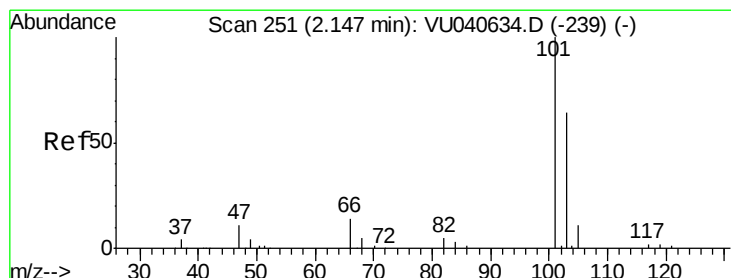
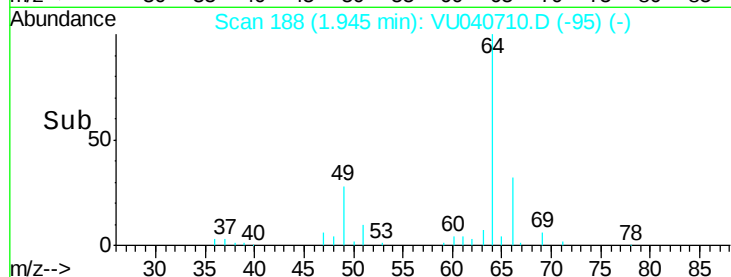
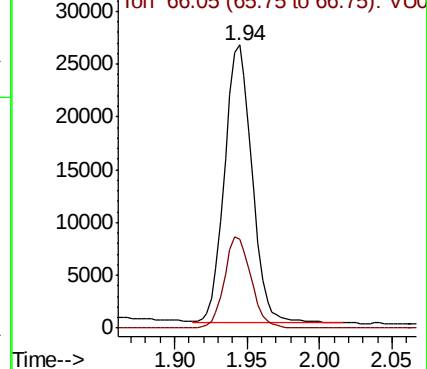
Ion Ratio Lower Upper

64 100

66 31.6 23.3 43.3



Abundance Ion 64.10 (63.80 to 64.80): VU040634.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 5.083 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU040710.D

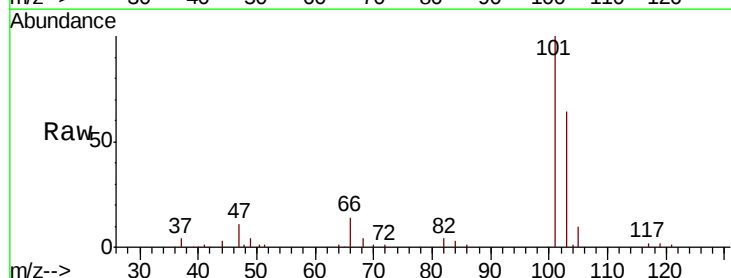
Acq: 15 Oct 2020 10:33

Tgt Ion:101 Resp: 81940

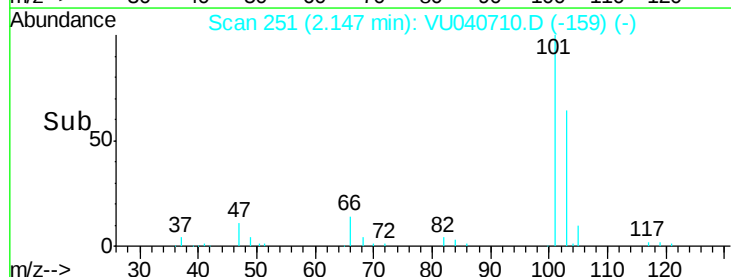
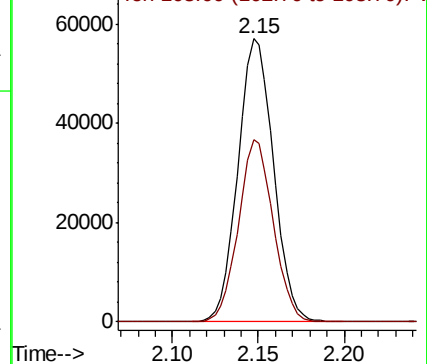
Ion Ratio Lower Upper

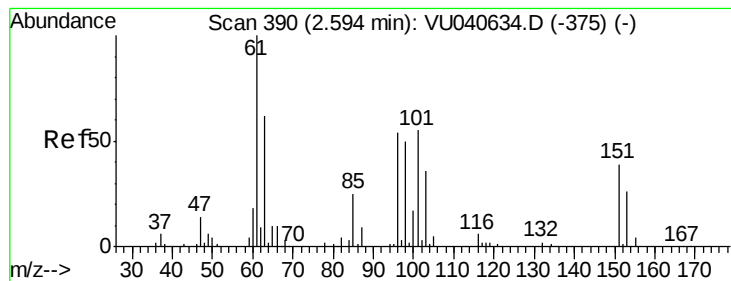
101 100

103 63.0 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU040634.D (-239) (-)





#10

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

Concen: 5.151 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampled :

VSTD00511

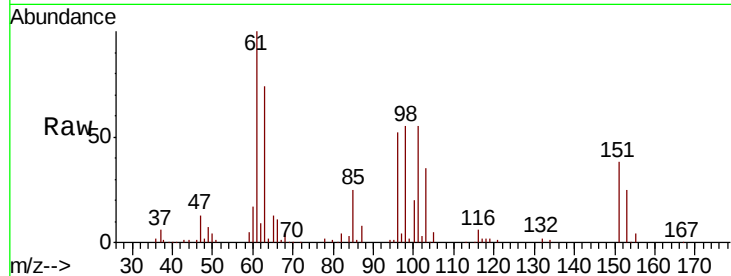
Tot Ion:101 Resp: 53899

Ion Ratio Lower Upper

101 100

85 46.1 36.7 55.1

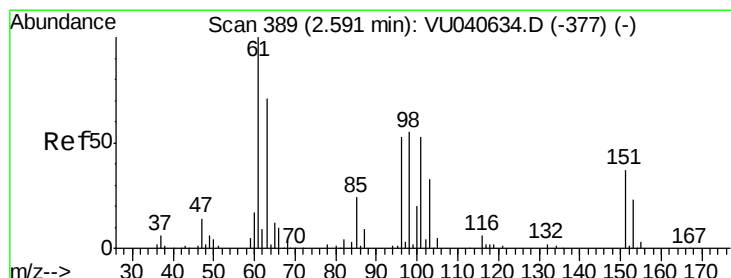
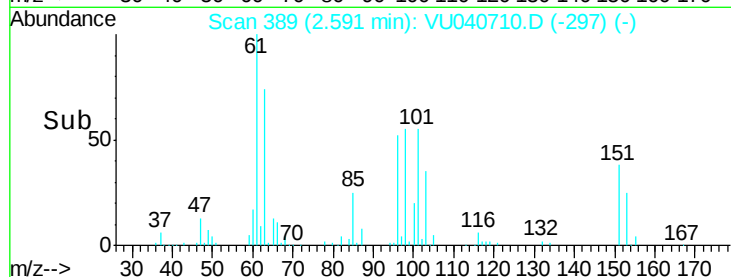
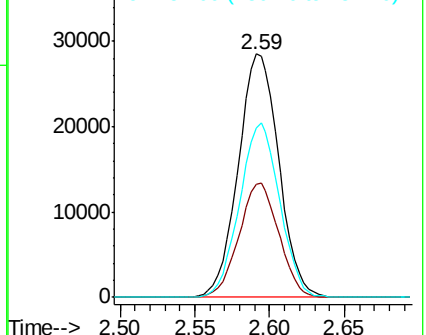
151 70.6 58.0 87.0



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: 5.065 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

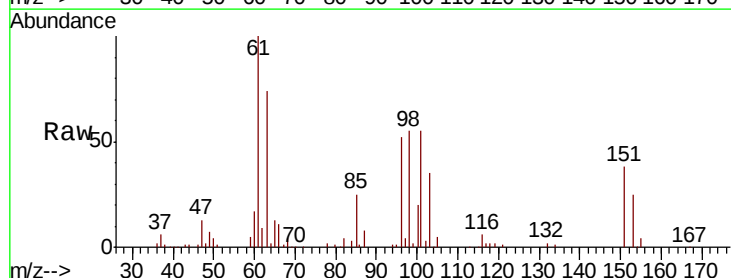
Tgt Ion: 96 Resp: 45468

Ion Ratio Lower Upper

96 100

61 193.1 128.8 239.2

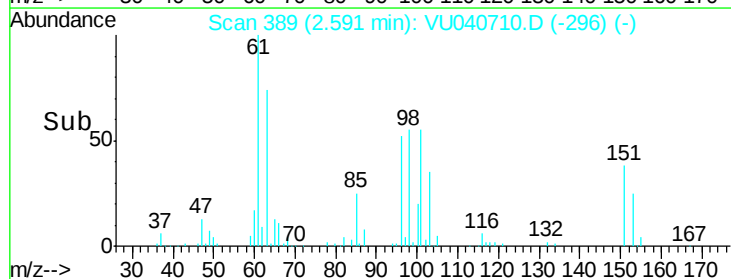
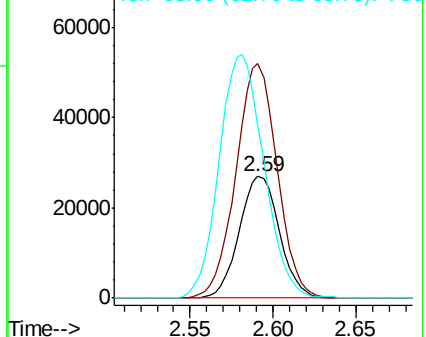
63 142.0 84.6 157.2

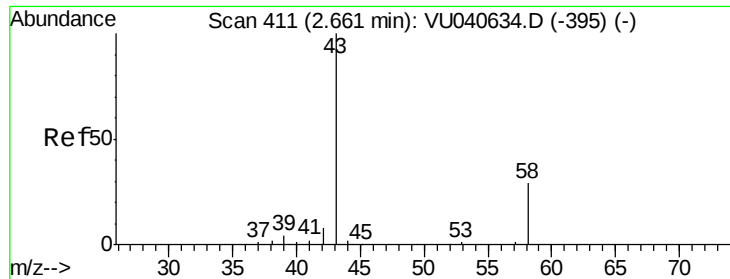


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.739 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.01 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

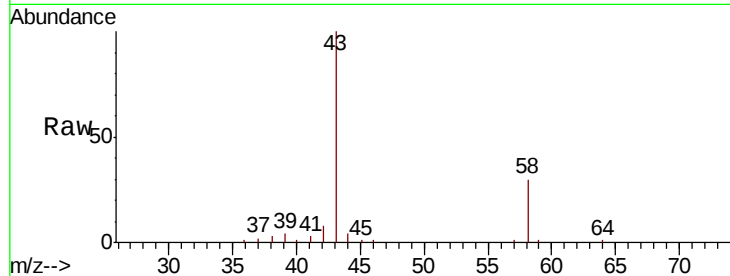
VSTD00511

Tot Ion: 43 Resp: 133780

Ion Ratio Lower Upper

43 100

58 29.2 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040710.D (-323) (-)

Ion 58.05 (57.75 to 58.75): VU040710.D (-323) (-)

2.67

30000

25000

20000

15000

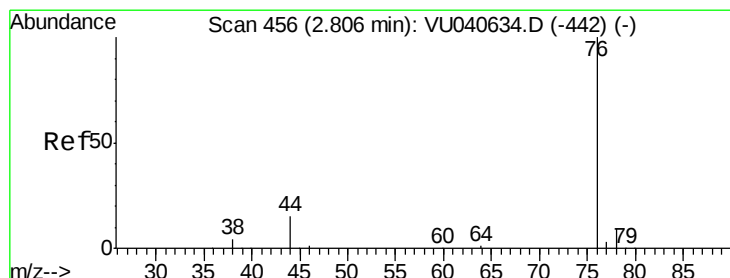
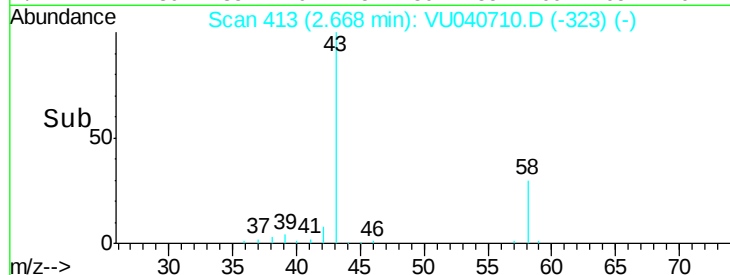
10000

5000

0

Time-->

2.50 2.60 2.70 2.80 2.90



#14

Carbon disulfide

Concen: 4.317 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040710.D

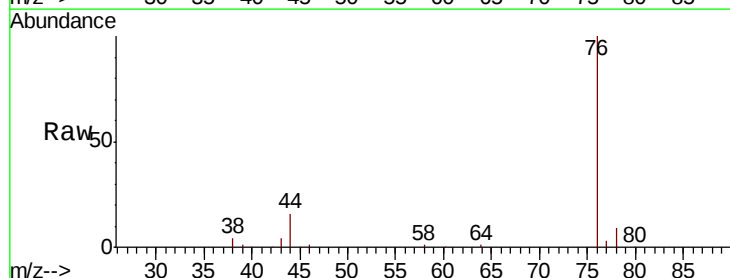
Acq: 15 Oct 2020 10:33

Tgt Ion: 76 Resp: 108468

Ion Ratio Lower Upper

76 100

78 8.7 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040710.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040710.D (-363) (-)

2.81

60000

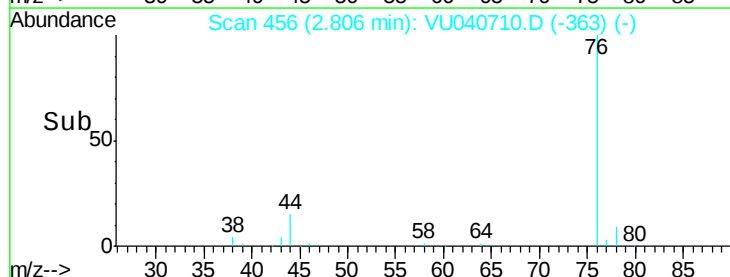
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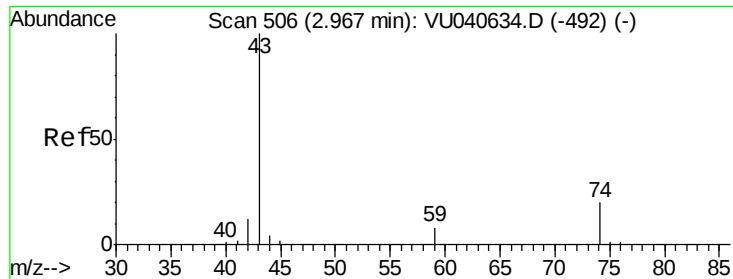
20000

0

Time-->

2.75 2.80 2.85 2.90

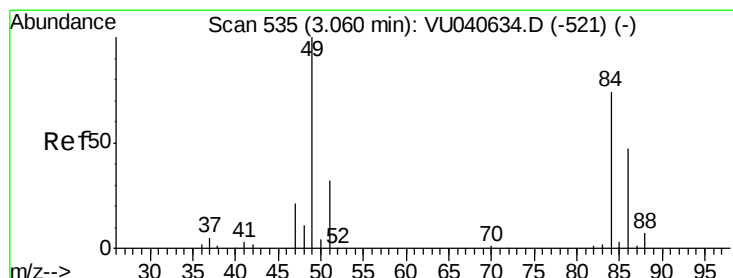
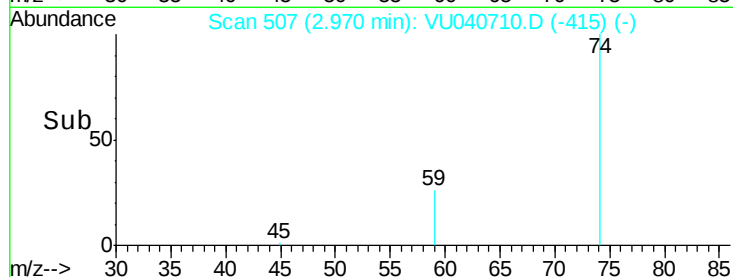
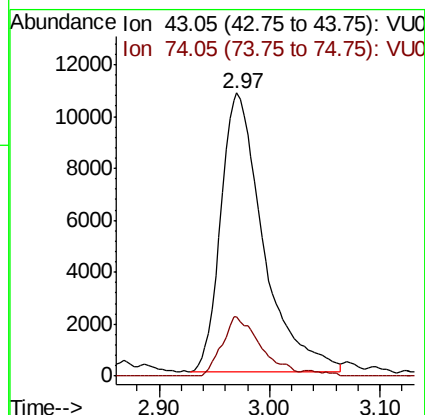
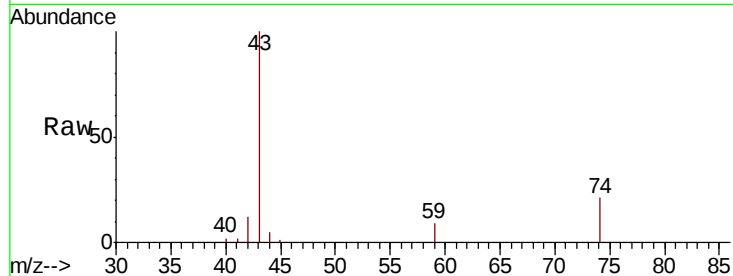




#15
Methyl Acetate
Concen: 4.860 ug/L
RT: 2.97 min Scan# 507
Delta R.T. -0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

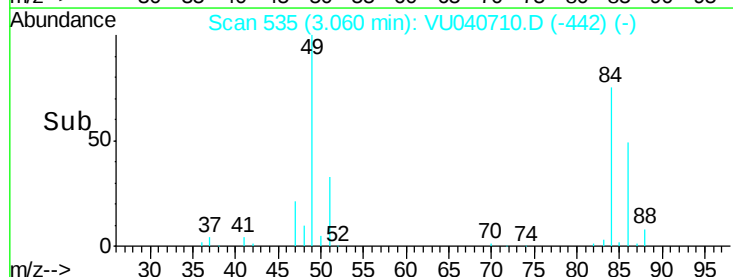
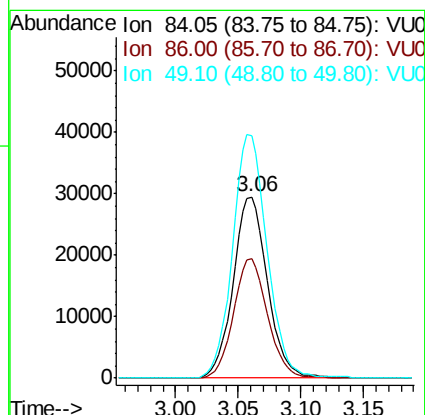
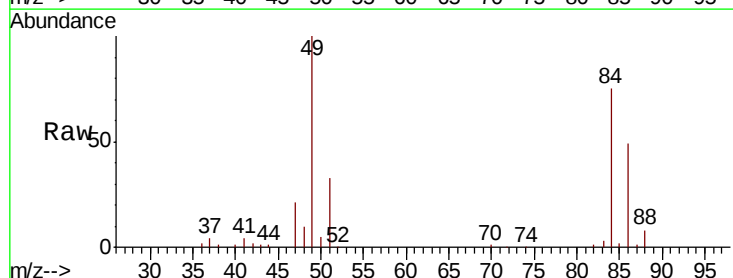
Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

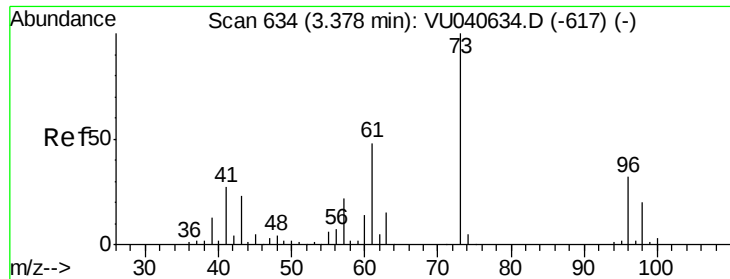
Tot Ion: 43 Resp: 28695
Ion Ratio Lower Upper
43 100
74 19.3 16.5 24.7



#16
Methylene chloride
Concen: 4.859 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Tgt Ion: 84 Resp: 56001
Ion Ratio Lower Upper
84 100
86 65.8 45.4 84.4
49 133.7 99.8 185.3

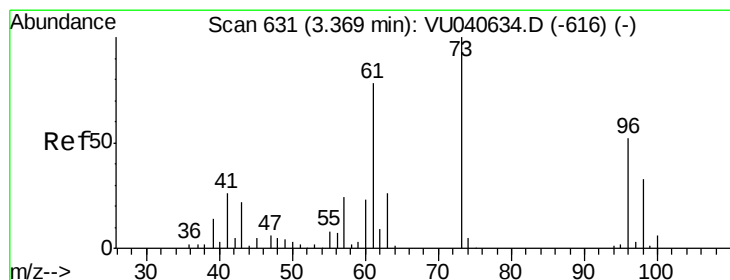
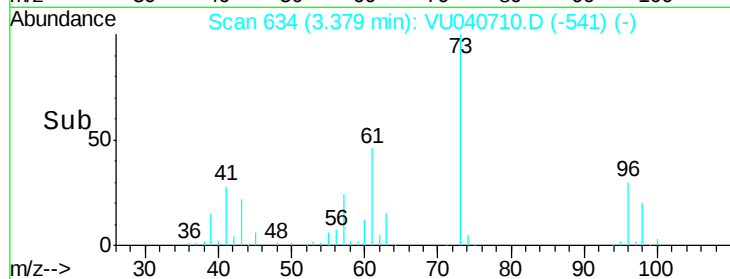
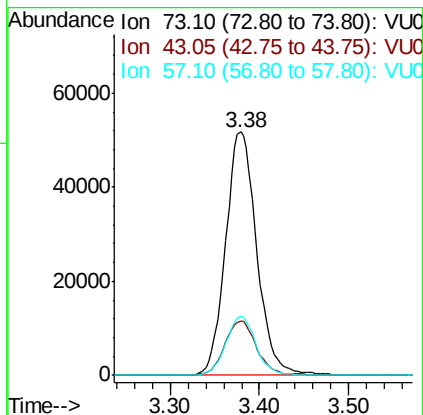
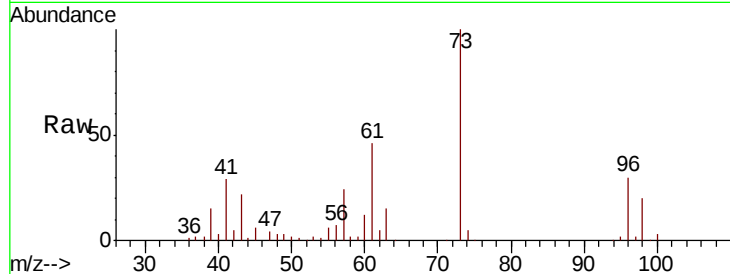




#17
Methvl tert-butvl Ether
Concen: 4.943 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

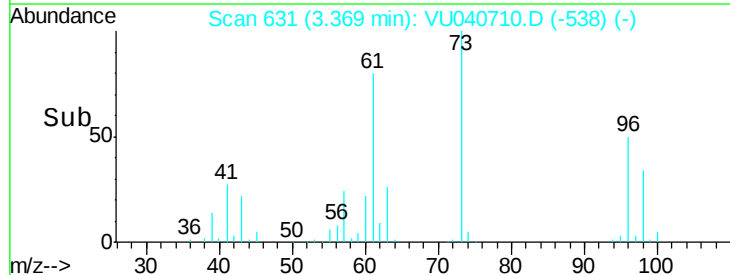
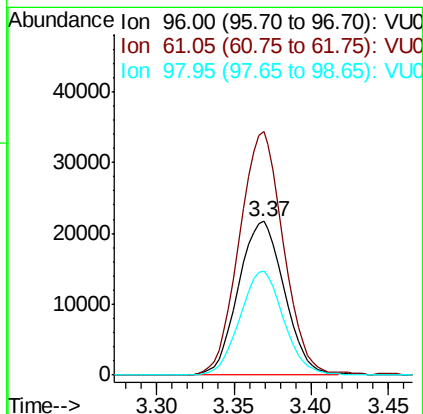
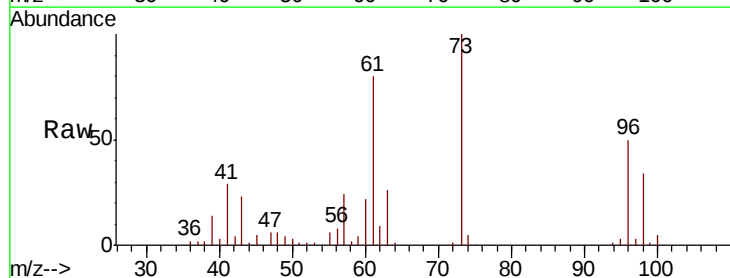
Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

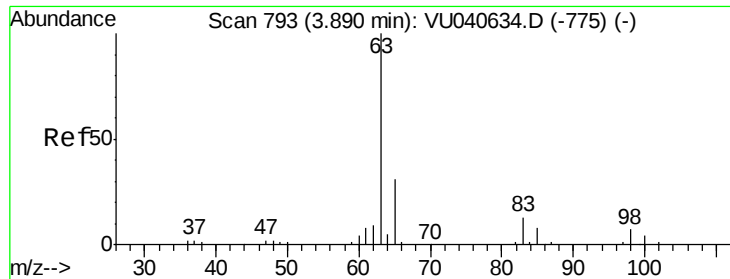
Tot Ion: 73 Resp: 125470
Ion Ratio Lower Upper
73 100
43 23.0 18.2 27.4
57 23.3 18.6 28.0



#18
trans-1,2-Dichloroethene
Concen: 4.758 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Tgt Ion: 96 Resp: 44711
Ion Ratio Lower Upper
96 100
61 158.3 105.9 196.7
98 67.6 43.8 81.3

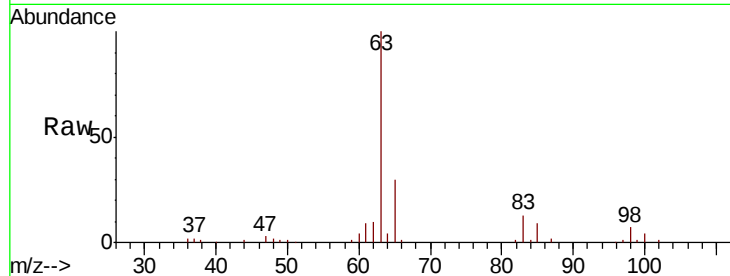




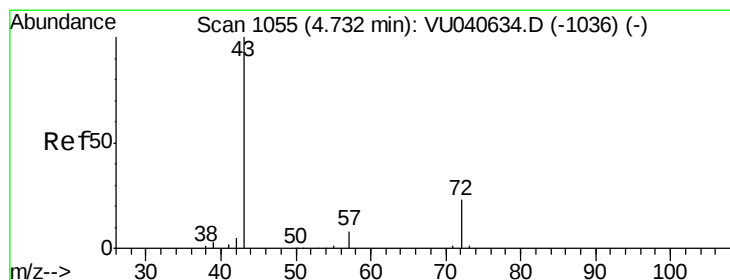
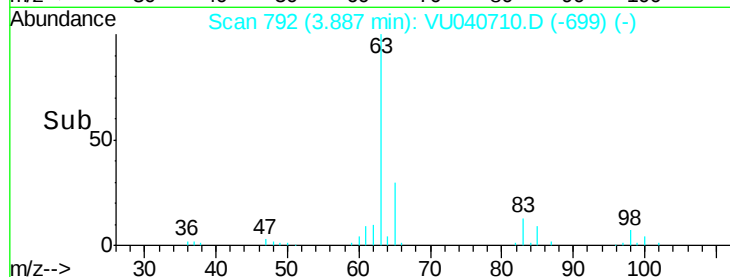
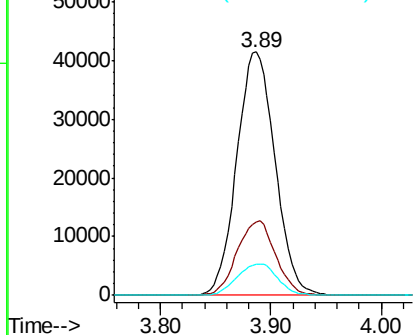
#19
 1,1-Dichloroethane
 Concen: 5.136 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00511

Tot Ion: 63 Resp: 99799
 Ion Ratio Lower Upper
 63 100
 65 30.3 21.9 40.7
 83 12.7 9.6 17.8

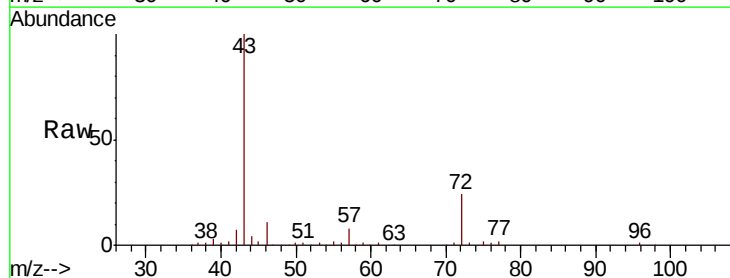


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

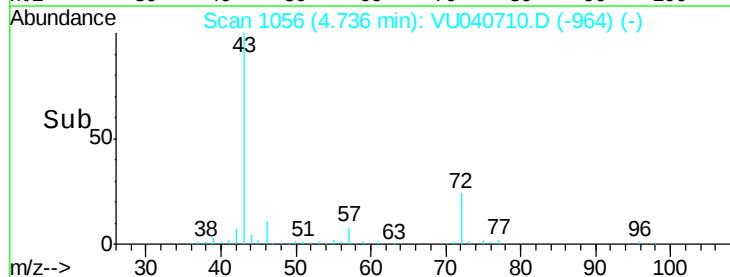
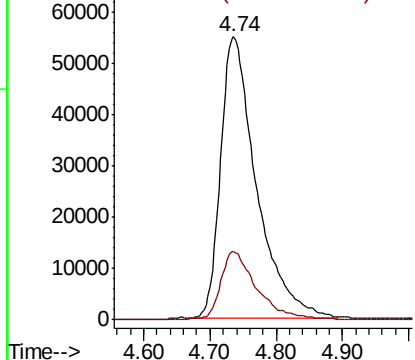


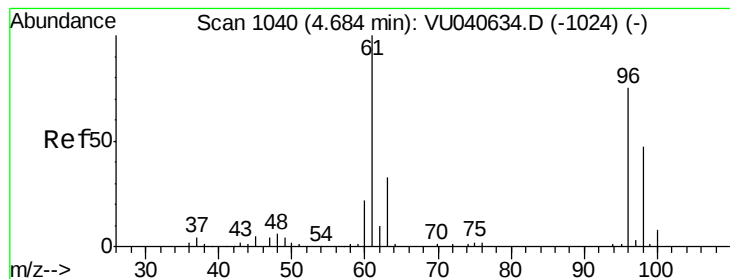
#21
 2-Butanone
 Concen: 51.036 ug/L
 RT: 4.74 min Scan# 1056
 Delta R.T. -0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion: 43 Resp: 205737
 Ion Ratio Lower Upper
 43 100
 72 24.9 11.4 34.2



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 5.102 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

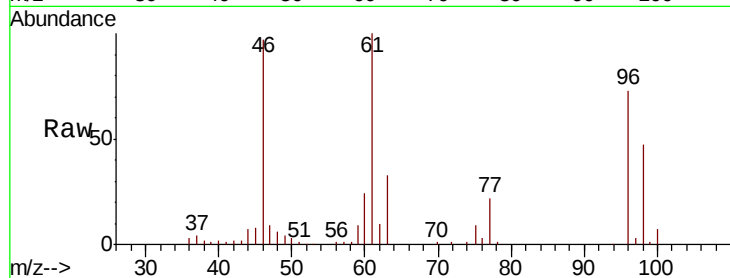
Tot Ion: 96 Resp: 51701

Ion Ratio Lower Upper

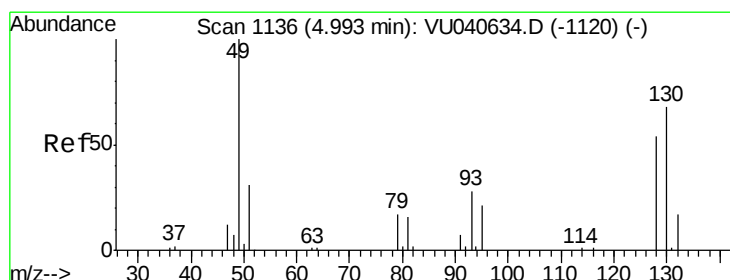
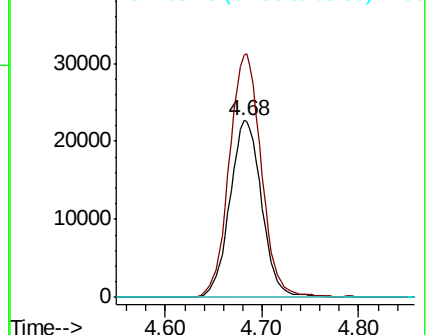
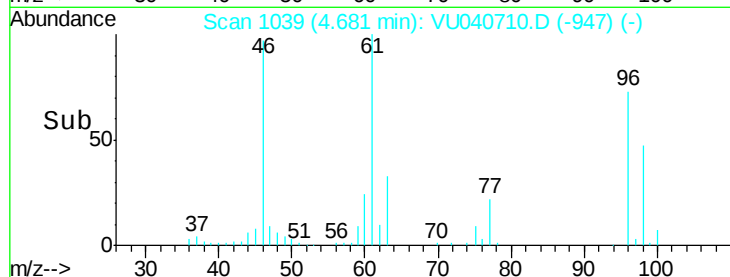
96 100

61 137.2 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040710.D (-1043) (-)



#23

Bromochloromethane

Concen: 5.143 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Tgt Ion: 128 Resp: 25889

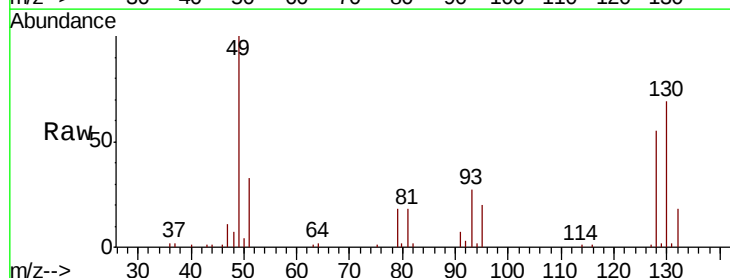
Ion Ratio Lower Upper

128 100

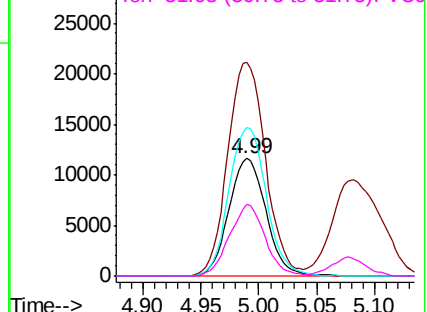
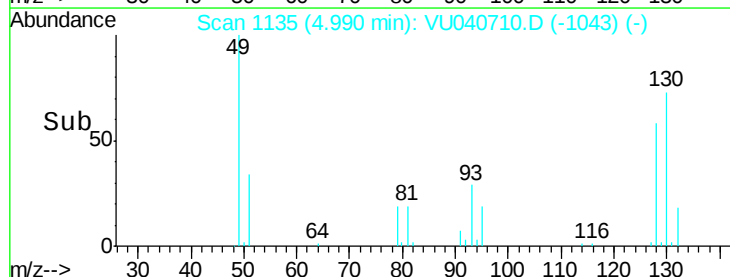
49 181.6 132.2 245.4

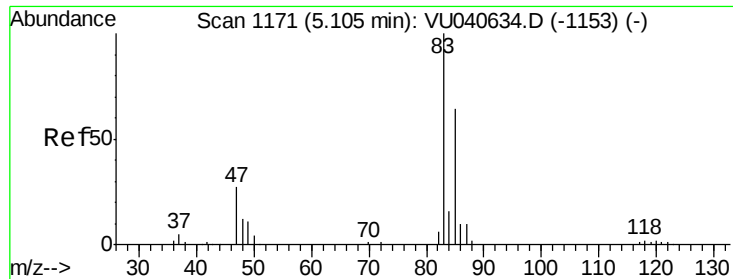
130 125.7 89.2 165.8

51 60.8 45.3 67.9



Abundance Ion 127.90 (127.60 to 128.60): VU040710.D (-1043) (-)

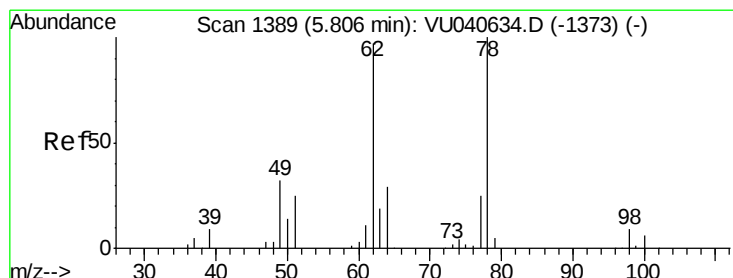
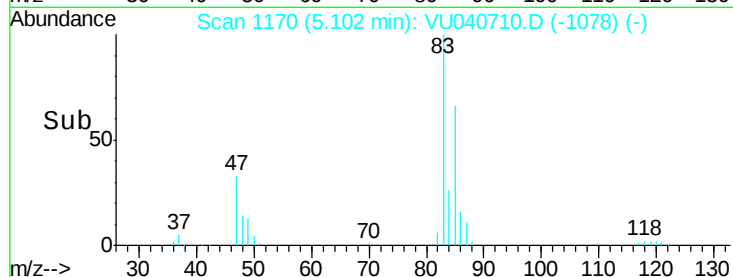
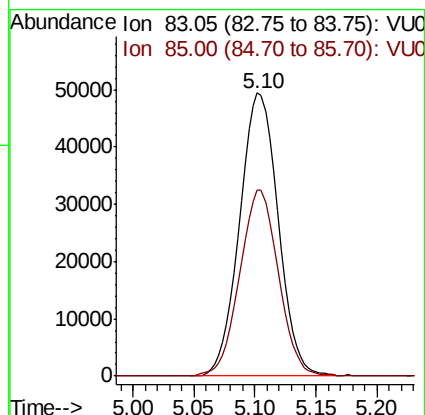
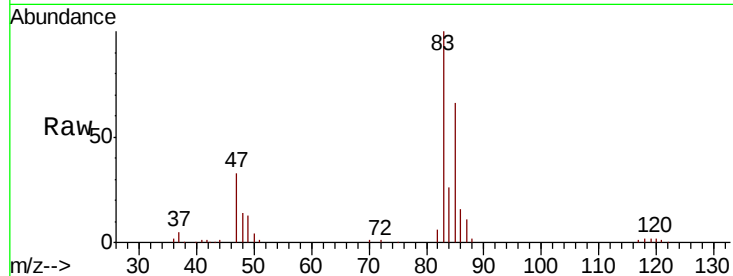




#25
Chloroform
Concen: 5.446 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

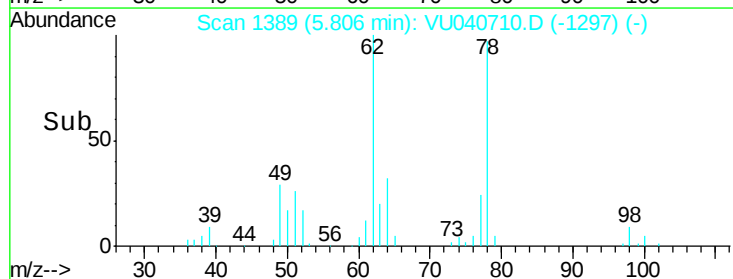
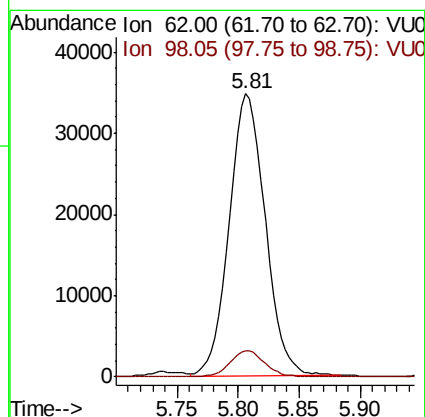
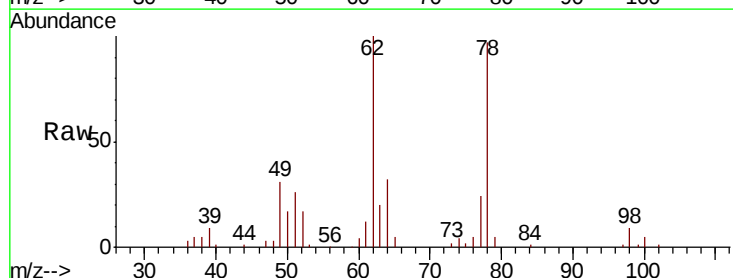
Instrument :
MSVOA_U
ClientSampled :
VSTD00511

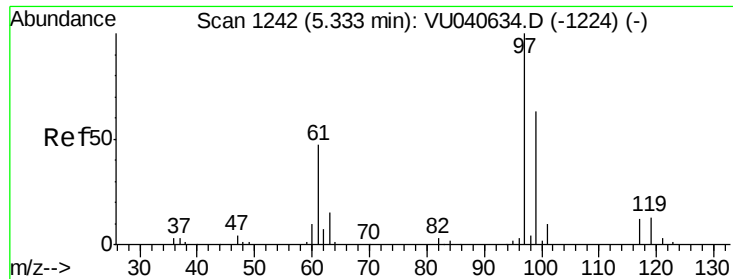
Tot Ion: 83 Resp: 108042
Ion Ratio Lower Upper
83 100
85 65.9 46.5 86.5



#27
1,2-Dichloroethane
Concen: 5.099 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Tgt Ion: 62 Resp: 71609
Ion Ratio Lower Upper
62 100
98 9.2 6.6 10.0

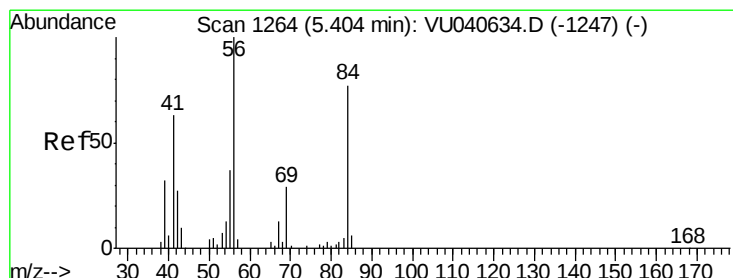
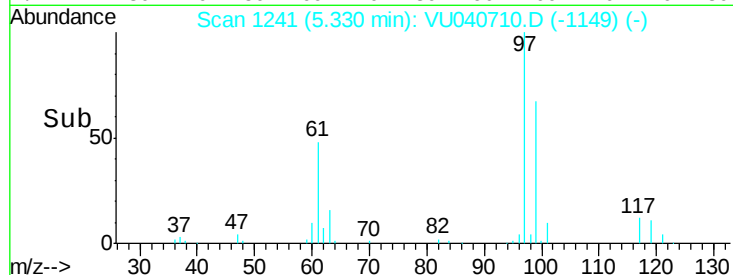
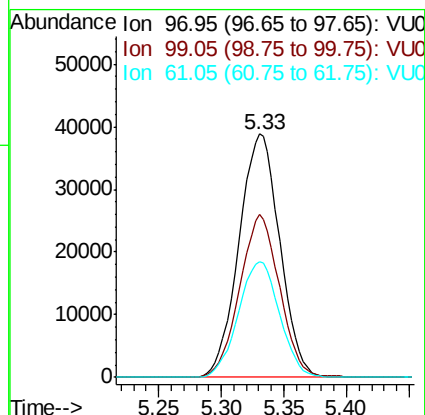
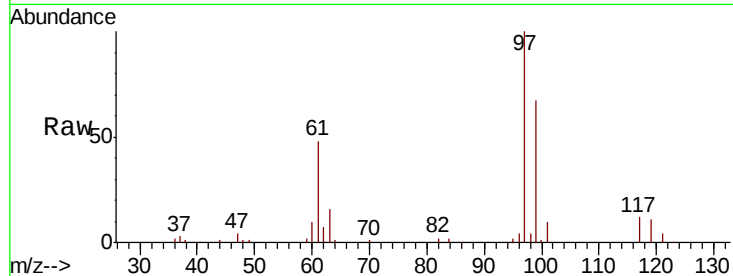




#29
 1,1,1-Trichloroethane
 Concen: 5.184 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

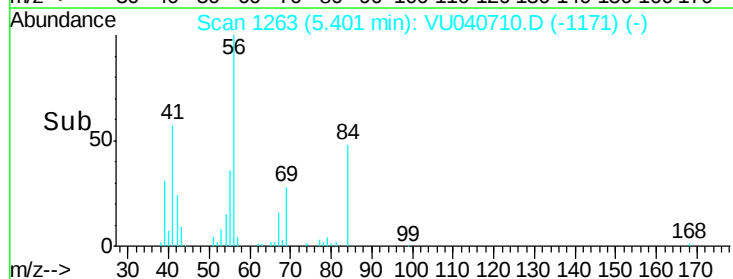
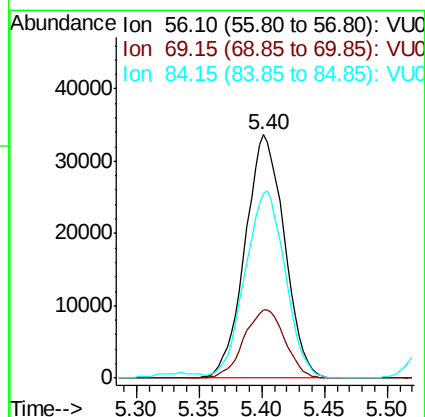
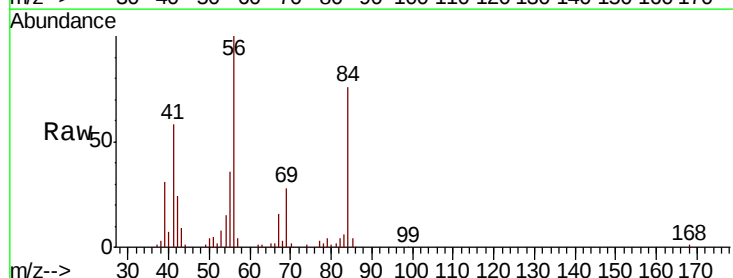
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

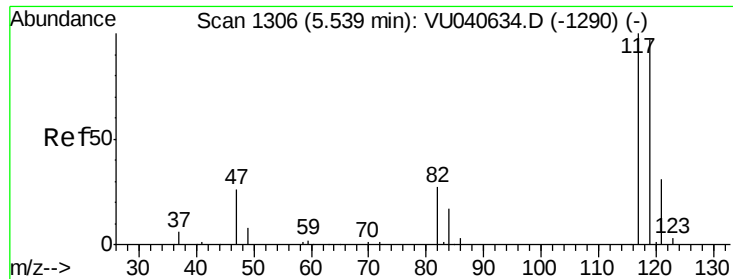
Tot Ion: 97 Resp: 87720
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.3 76.9
 61 48.1 39.4 59.2



#30
 Cyclohexane
 Concen: 4.705 ug/L
 RT: 5.40 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion: 56 Resp: 73365
 Ion Ratio Lower Upper
 56 100
 69 29.1 23.8 35.8
 84 78.8 64.0 96.0





#31

Carbon tetrachloride

Concen: 5.155 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

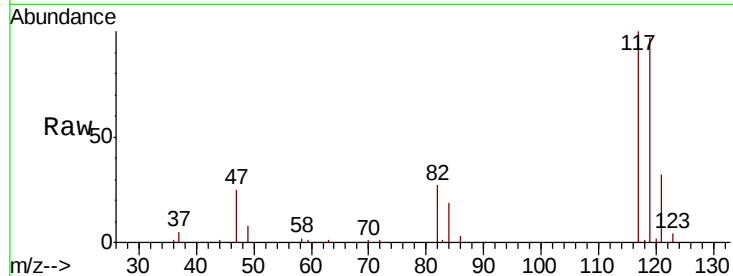
VSTD00511

Tot Ion:117 Resp: 74652

Ion Ratio Lower Upper

117 100

119 96.6 76.2 114.2

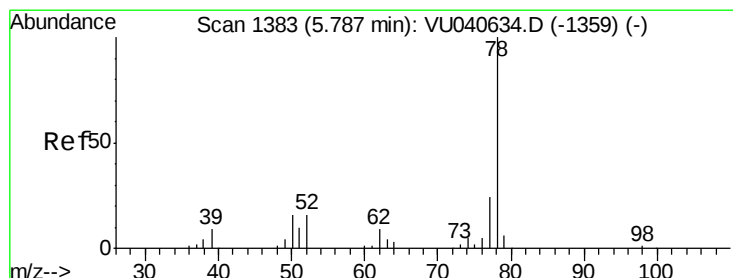
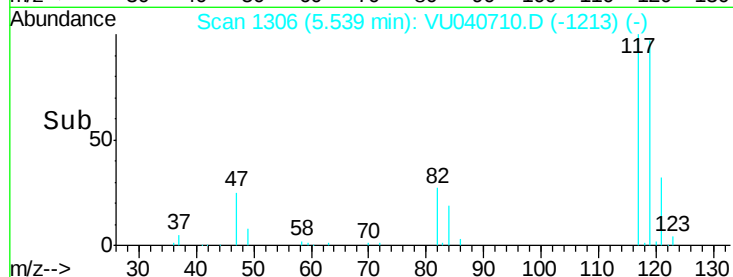


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.54

Time-->



#33

Benzene

Concen: 5.130 ug/L

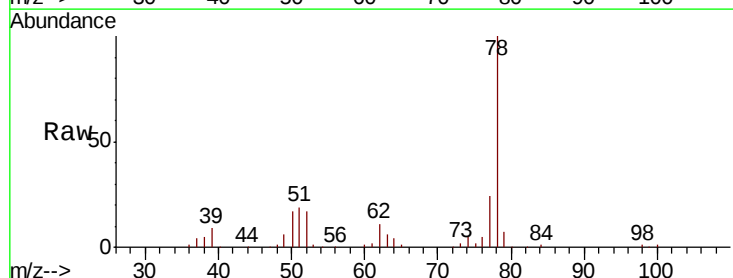
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

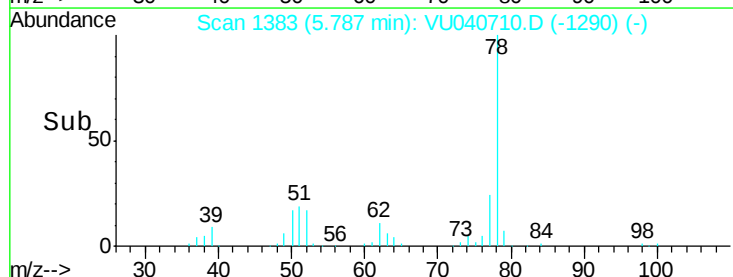
Tgt Ion: 78 Resp: 207532

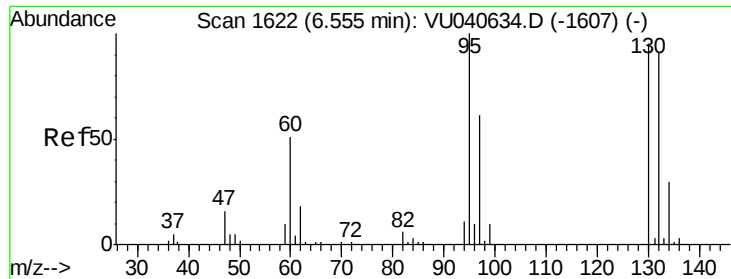


Abundance Ion 78.10 (77.80 to 78.80): VU0

5.79

Time-->

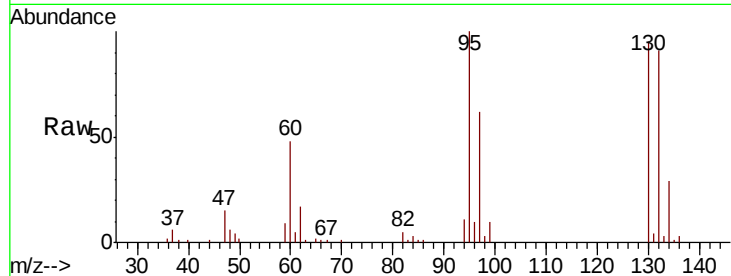




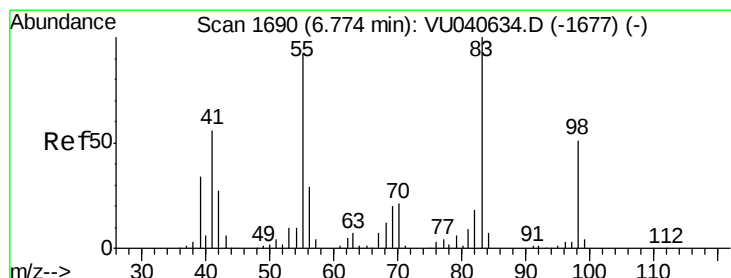
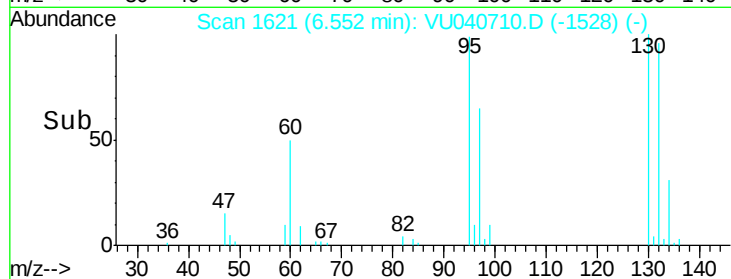
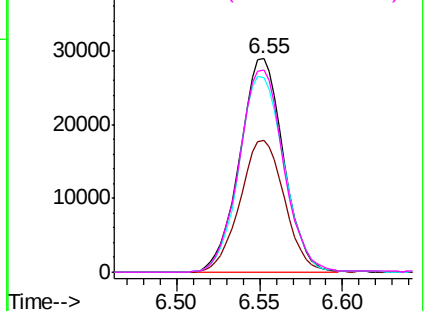
#34
 Trichloroethene
 Concen: 5.090 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion: 95 Resp: 53378
 Ion Ratio Lower Upper
 95 100
 97 61.9 45.5 84.5
 132 91.0 67.5 125.4
 130 94.6 69.9 129.9

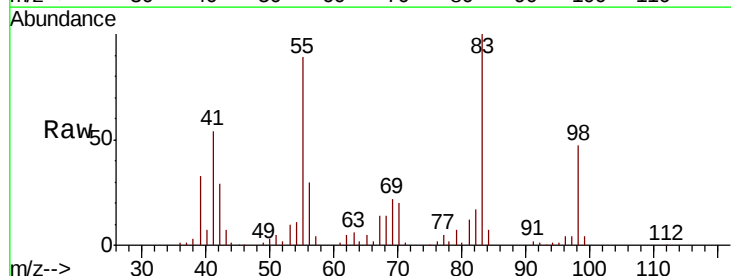


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

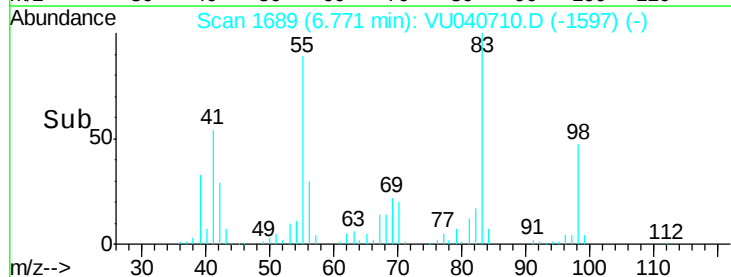
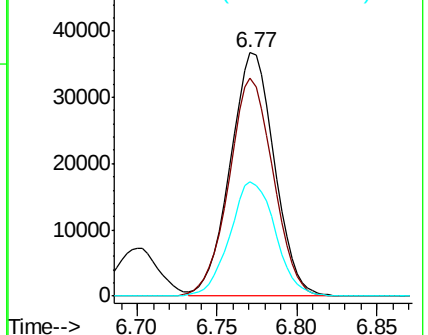


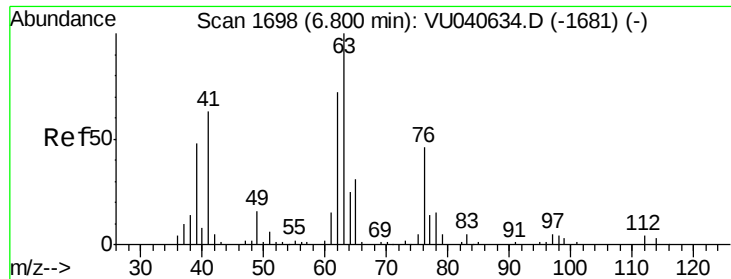
#35
 Methylcyclohexane
 Concen: 4.657 ug/L
 RT: 6.77 min Scan# 1689
 Delta R.T. -0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion: 83 Resp: 69251
 Ion Ratio Lower Upper
 83 100
 55 89.7 70.7 106.1
 98 48.3 38.4 57.6



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: 5.183 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

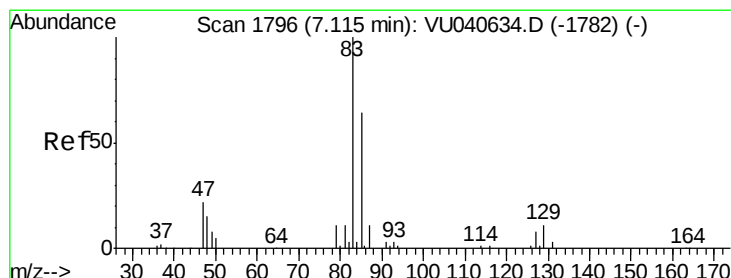
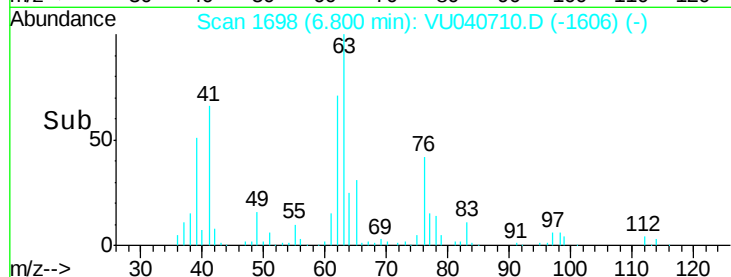
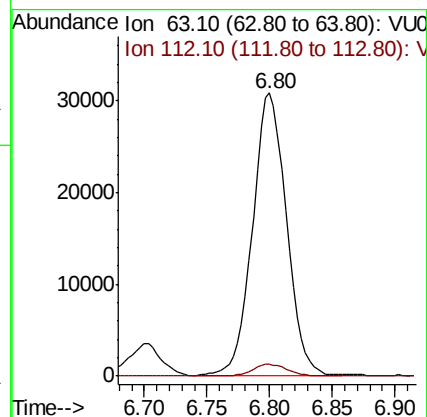
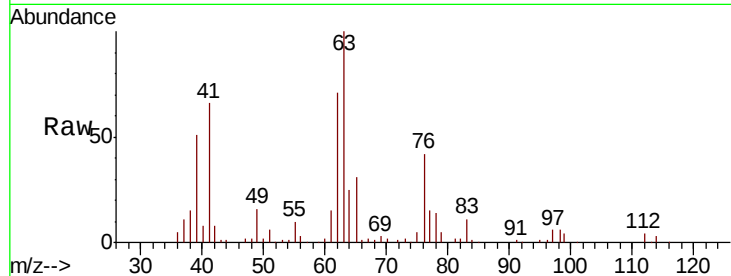
VSTD00511

Tot Ion: 63 Resp: 58417

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3



#38

Bromodichloromethane

Concen: 5.301 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

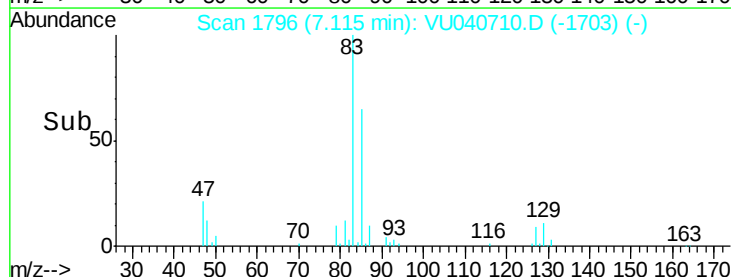
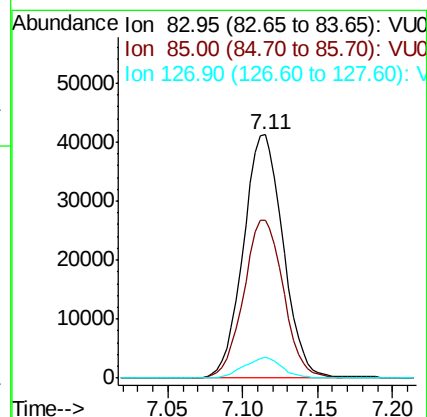
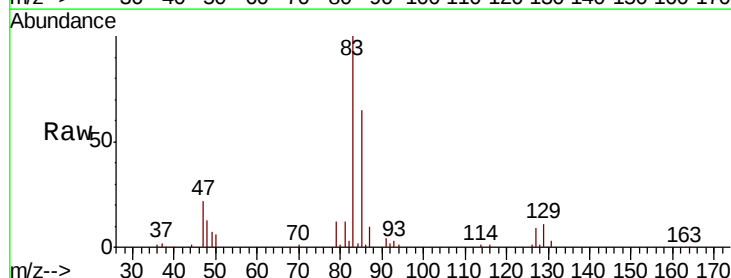
Tgt Ion: 83 Resp: 76382

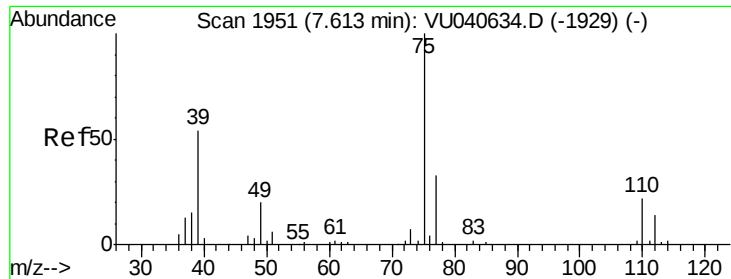
Ion Ratio Lower Upper

83 100

85 65.0 46.0 85.4

127 8.7 6.7 10.1

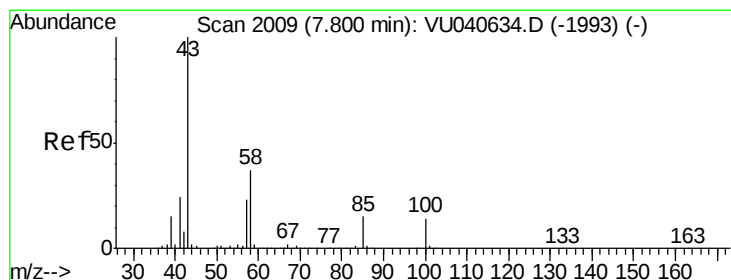
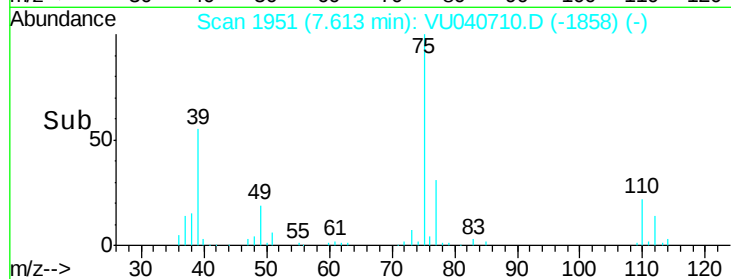
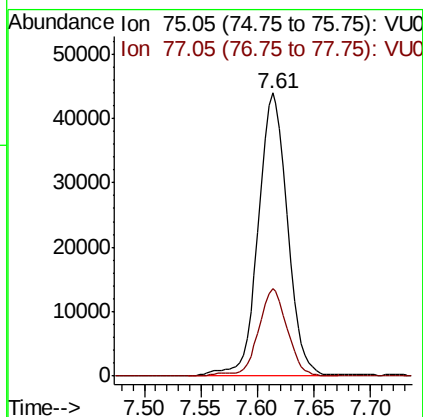
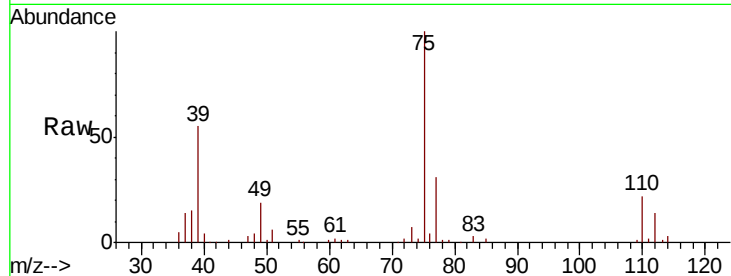




#39
 cis-1,3-Dichloropropene
 Concen: 5.145 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

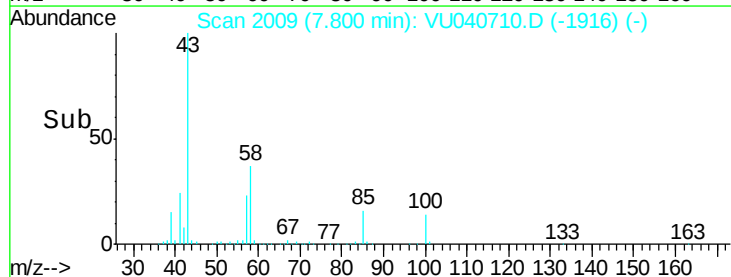
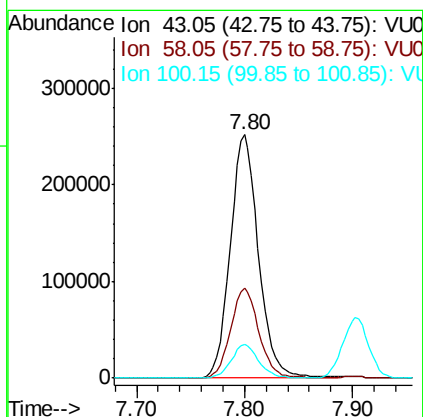
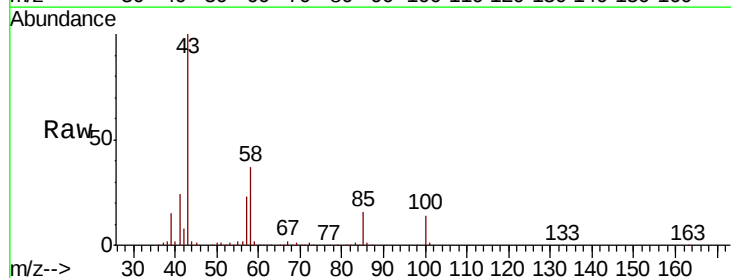
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

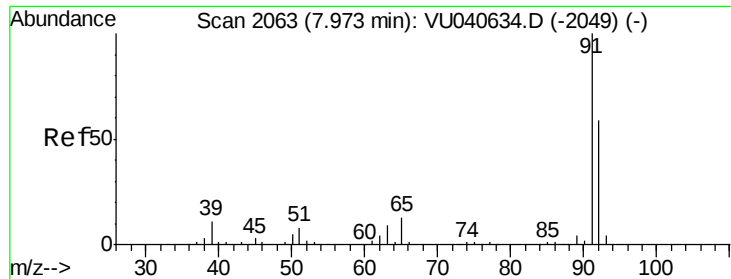
Tot Ion: 75 Resp: 79240
 Ion Ratio Lower Upper
 75 100
 77 30.8 20.5 38.1



#40
 4-Methyl-2-pentanone
 Concen: 51.122 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion: 43 Resp: 459396
 Ion Ratio Lower Upper
 43 100
 58 37.0 29.7 44.5
 100 13.5 10.7 16.1





#42

Toluene

Concen: 5.251 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

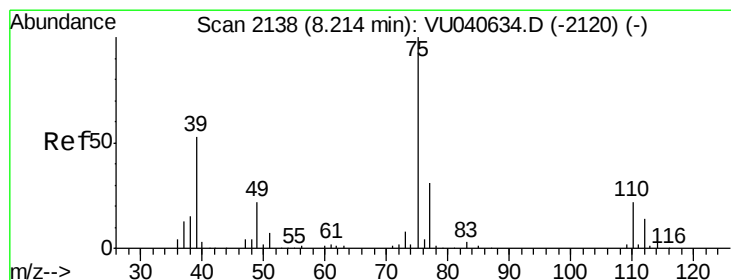
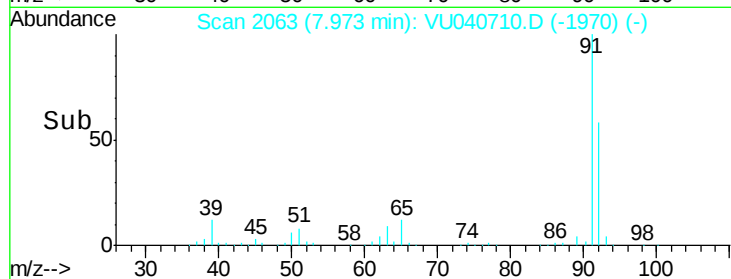
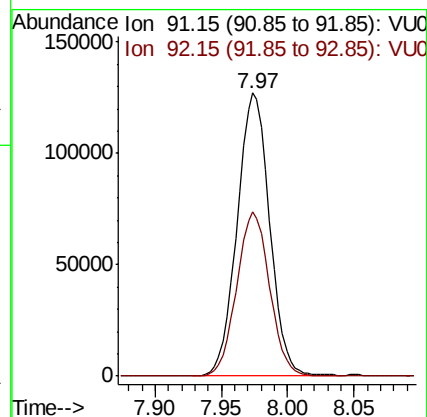
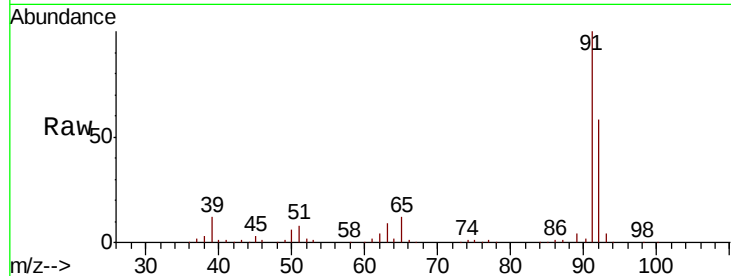
VSTD00511

Tot Ion: 91 Resp: 216462

Ion Ratio Lower Upper

91 100

92 58.0 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 5.189 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU040710.D

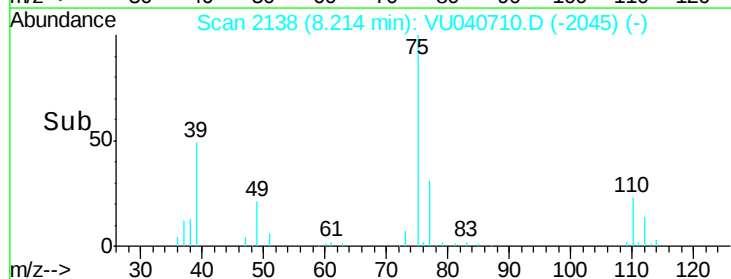
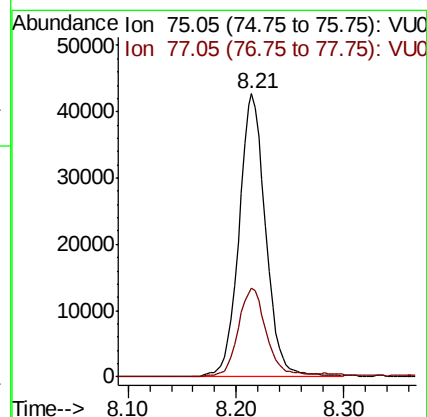
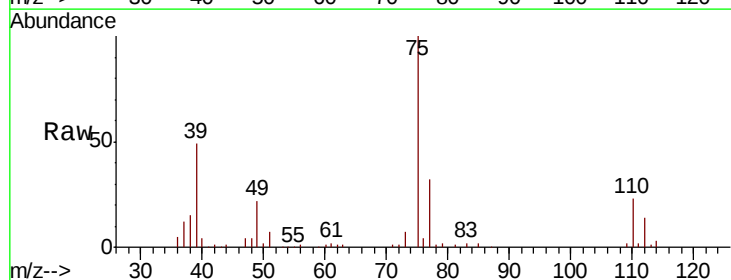
Acq: 15 Oct 2020 10:33

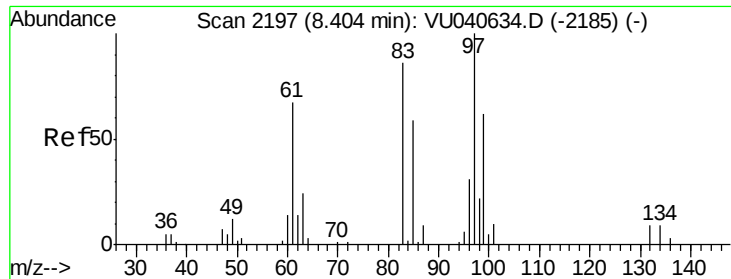
Tgt Ion: 75 Resp: 73566

Ion Ratio Lower Upper

75 100

77 31.6 20.4 38.0

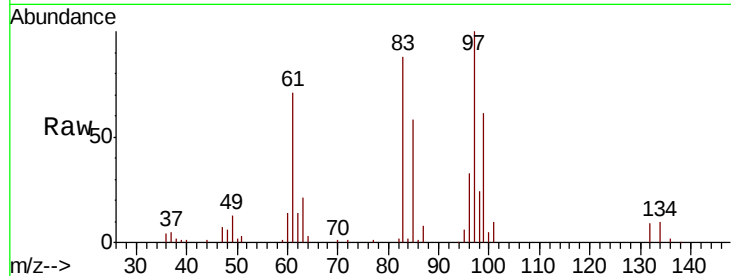




#45
 1,1,2-Trichloroethane
 Concen: 5.213 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion:	97	Resp:	44003
Ion	Ratio	Lower	Upper
97	100		
99	60.9	44.0	81.6
83	88.4	62.9	116.9
85	58.5	40.3	74.8

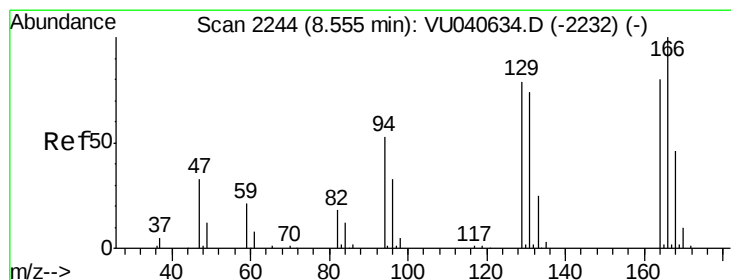
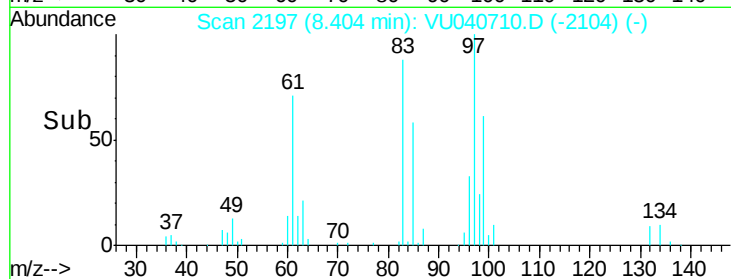
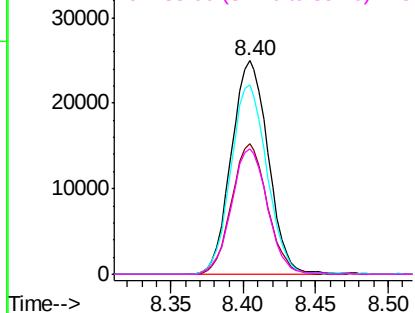


Abundance Ion 96.95 (96.65 to 97.65): VU040710.D (-2197) (-)

Ion 99.05 (98.75 to 99.75): VU040710.D (-2197) (-)

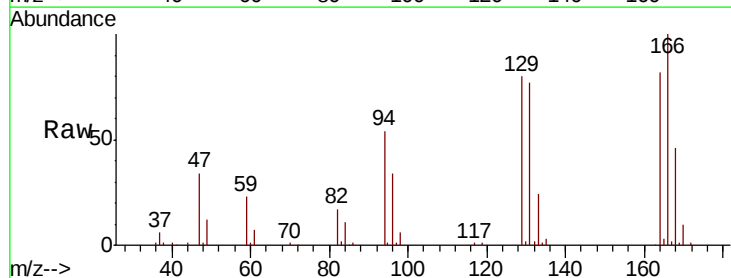
Ion 82.95 (82.65 to 83.65): VU040710.D (-2197) (-)

Ion 85.00 (84.70 to 85.70): VU040710.D (-2197) (-)



#47
 Tetrachloroethene
 Concen: 5.277 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion:	164	Resp:	39478
Ion	Ratio	Lower	Upper
164	100		
129	97.3	68.8	127.8
131	94.0	66.7	123.9
166	121.5	83.9	155.7

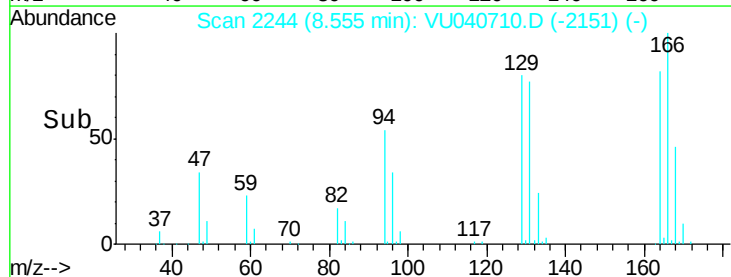
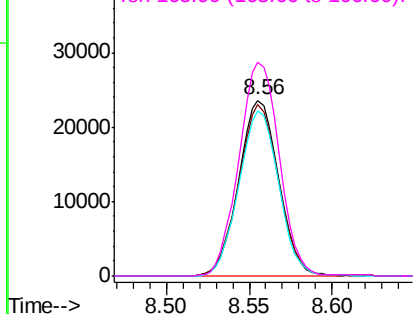


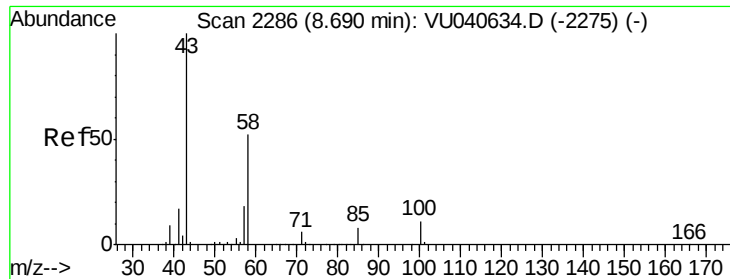
Abundance Ion 163.90 (163.60 to 164.60): VU040710.D (-2244) (-)

Ion 128.95 (128.65 to 129.65): VU040710.D (-2244) (-)

Ion 130.95 (130.65 to 131.65): VU040710.D (-2244) (-)

Ion 165.90 (165.60 to 166.60): VU040710.D (-2244) (-)

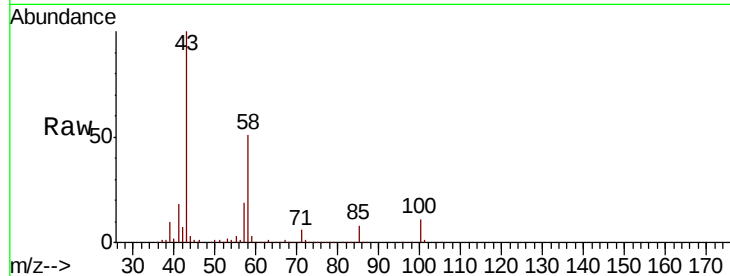




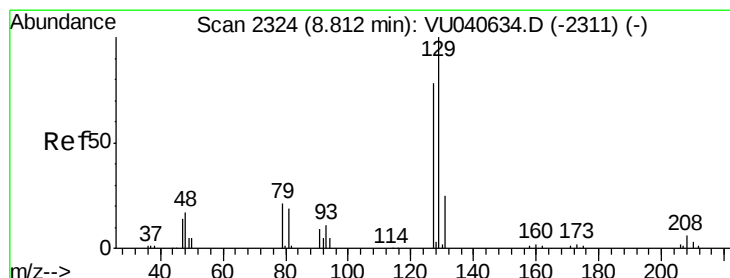
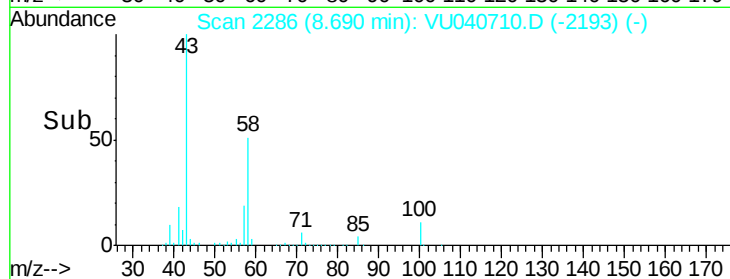
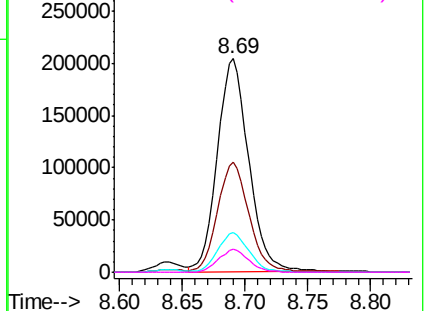
#48
2-Hexanone
Concen: 52.808 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

Tot Ion:	43	Resp:	353309
Ion	Ratio	Lower	Upper
43	100		
58	51.7	41.0	61.6
57	18.2	14.4	21.6
100	10.6	8.6	13.0

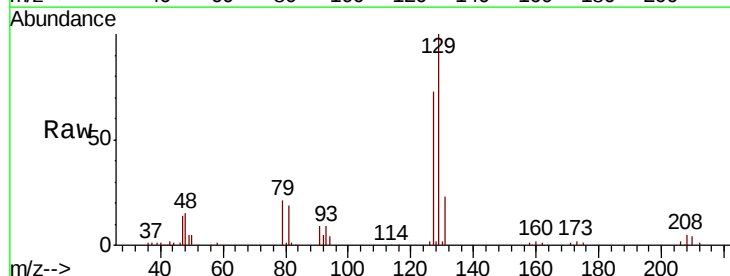


Abundance Ion 43.05 (42.75 to 43.75): VU040710.D (-2193) (-)
Ion 58.05 (57.75 to 58.75): VU040710.D (-2193) (-)
Ion 57.20 (56.90 to 57.90): VU040710.D (-2193) (-)
Ion 100.15 (99.85 to 100.85): VU040710.D (-2193) (-)

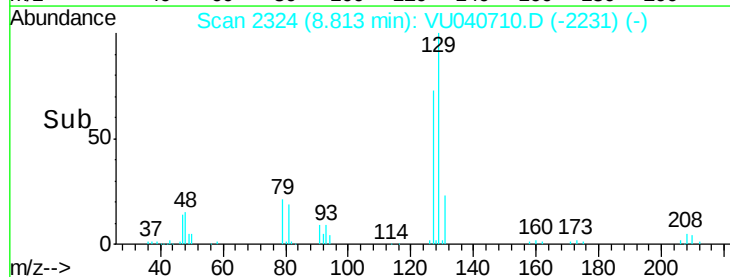
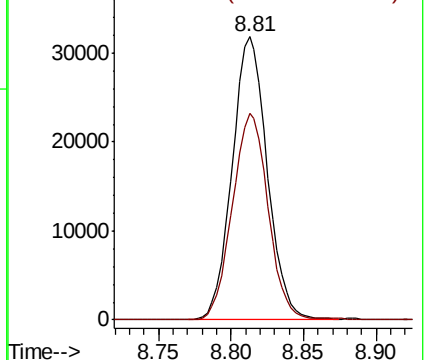


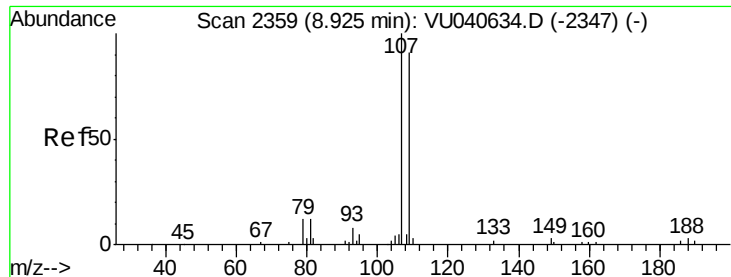
#49
Dibromochloromethane
Concen: 5.504 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Tgt Ion:	129	Resp:	53464
Ion	Ratio	Lower	Upper
129	100		
127	72.8	55.8	103.6



Abundance Ion 128.95 (128.65 to 129.65): VU040710.D (-2231) (-)
Ion 126.90 (126.60 to 127.60): VU040710.D (-2231) (-)

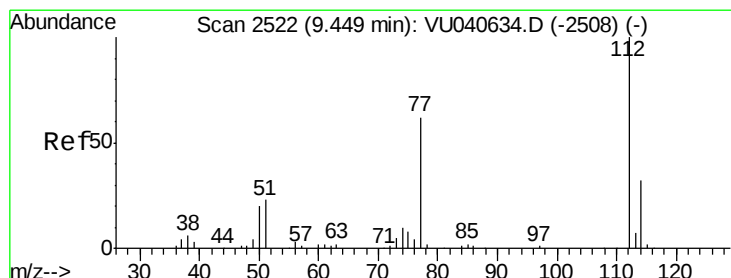
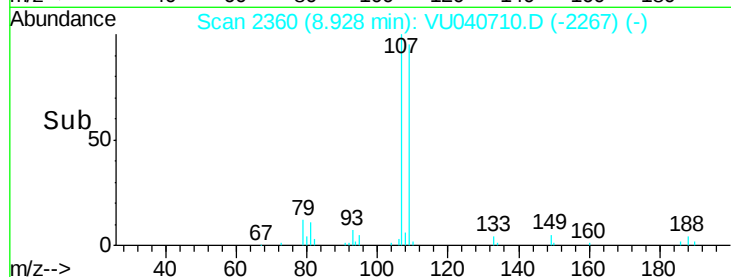
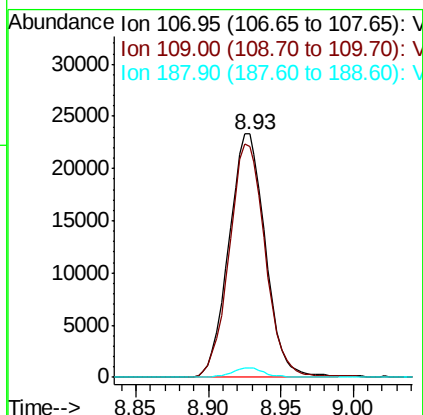
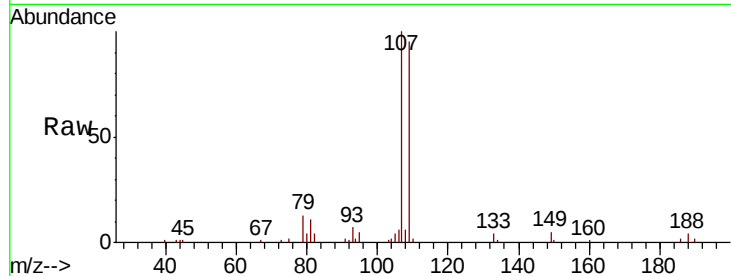




#50
 1,2-Dibromoethane
 Concen: 5.066 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

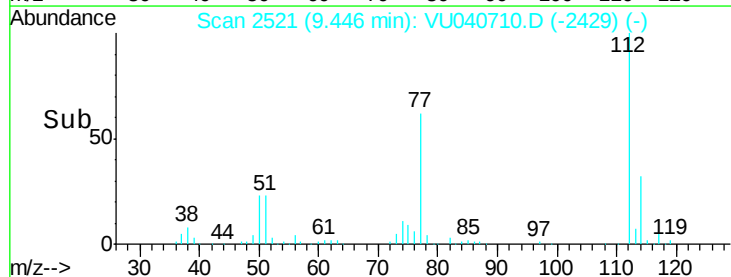
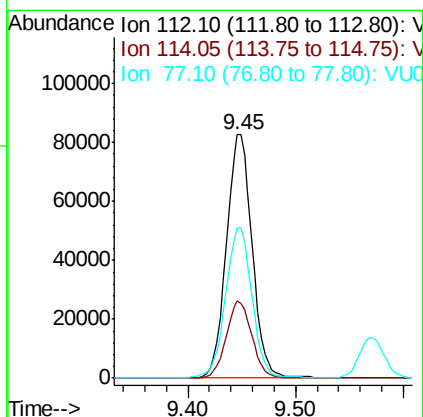
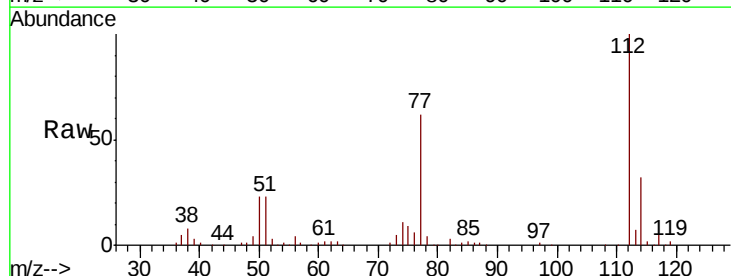
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

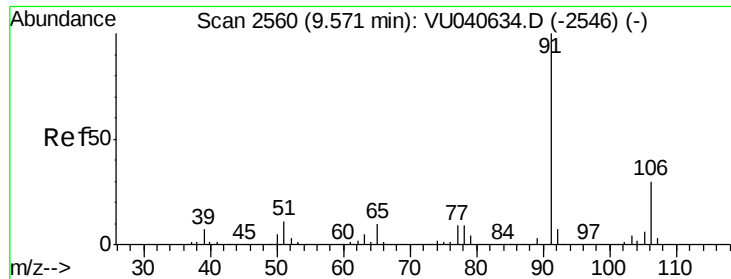
Tot Ion:107 Resp: 40563
 Ion Ratio Lower Upper
 107 100
 109 95.0 65.7 121.9
 188 3.9 3.0 4.4



#51
 Chlorobenzene
 Concen: 5.062 ug/L
 RT: 9.45 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion:112 Resp: 137444
 Ion Ratio Lower Upper
 112 100
 114 31.7 23.1 42.9
 77 61.9 50.3 75.5





#52

Ethylbenzene

Concen: 5.048 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

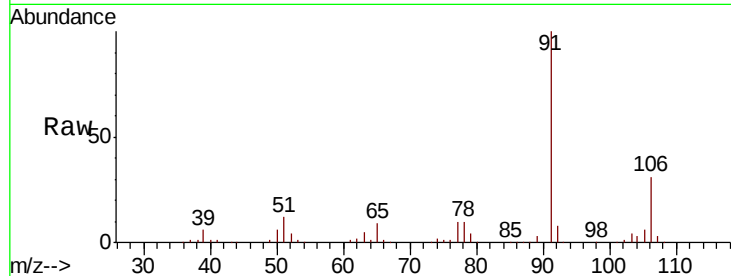
VSTD00511

Tot Ion: 91 Resp: 225202

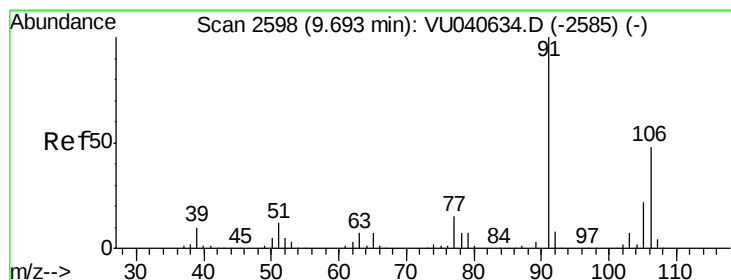
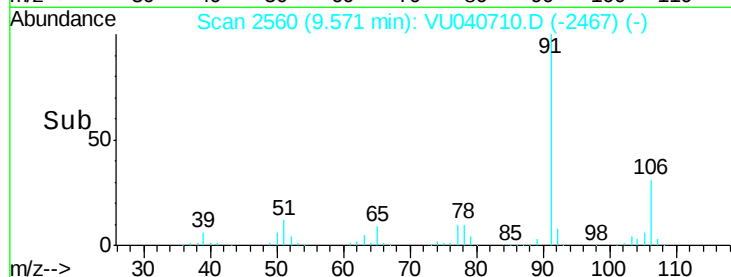
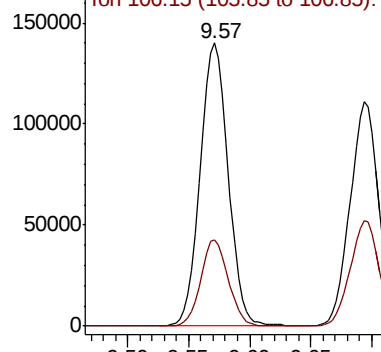
Ion Ratio Lower Upper

91 100

106 30.5 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU040710.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.294 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040710.D

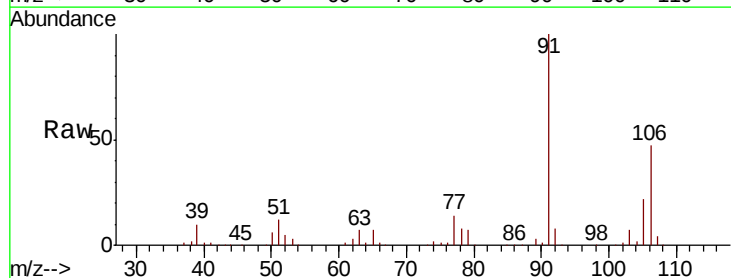
Acq: 15 Oct 2020 10:33

Tgt Ion: 106 Resp: 86082

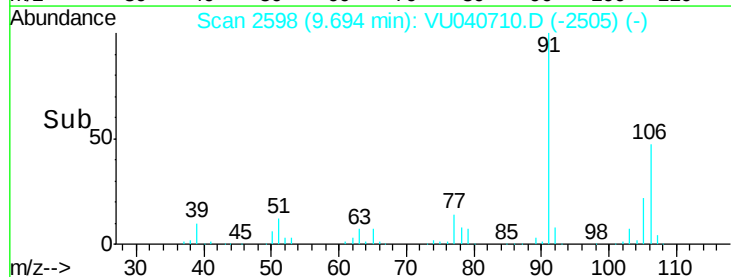
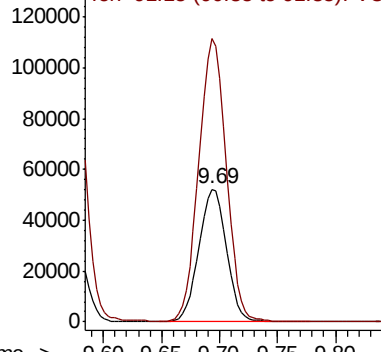
Ion Ratio Lower Upper

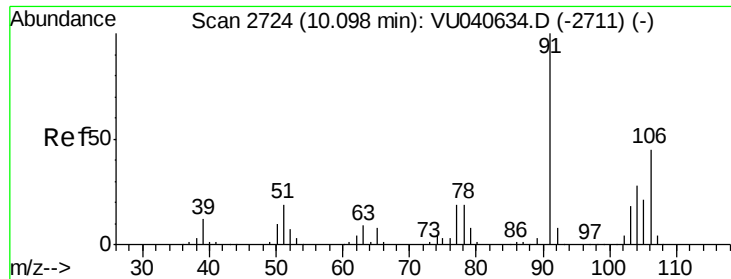
106 100

91 213.7 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040710.D (-2585) (-)

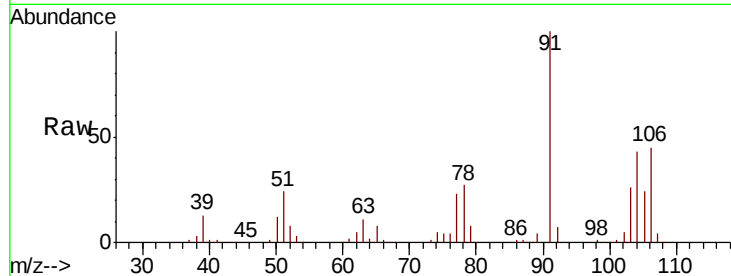




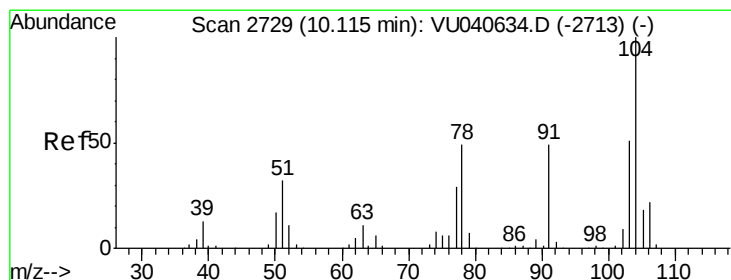
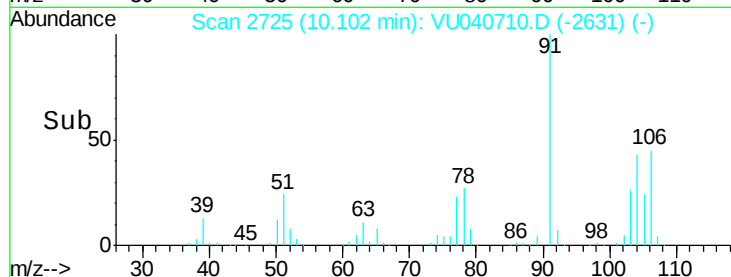
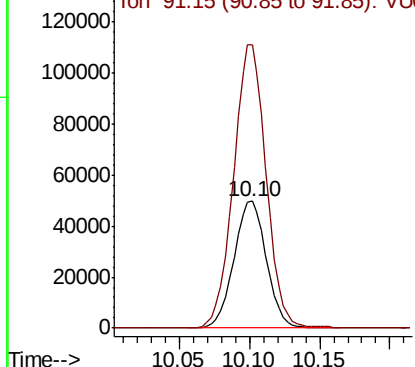
#54
o-Xylene
Concen: 5.136 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Instrument :
MSVOA_U
ClientSampleId :
VSTD00511

Tot Ion:106 Resp: 80316
Ion Ratio Lower Upper
106 100
91 223.5 160.2 297.4

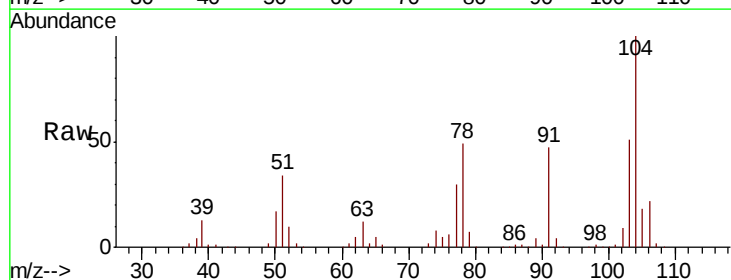


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

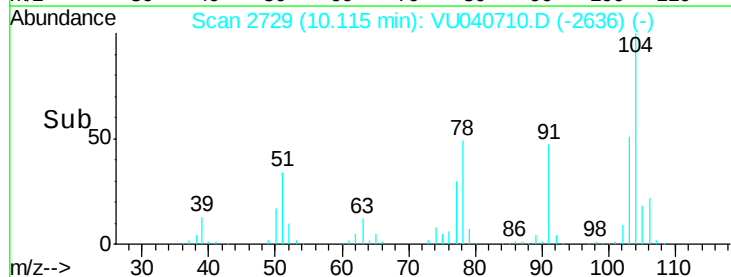
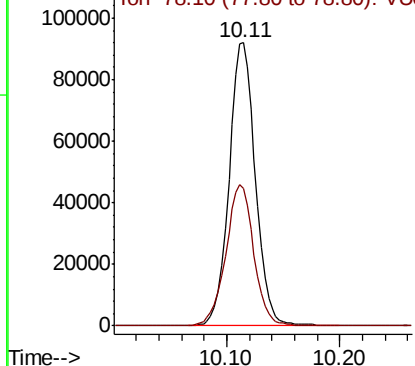


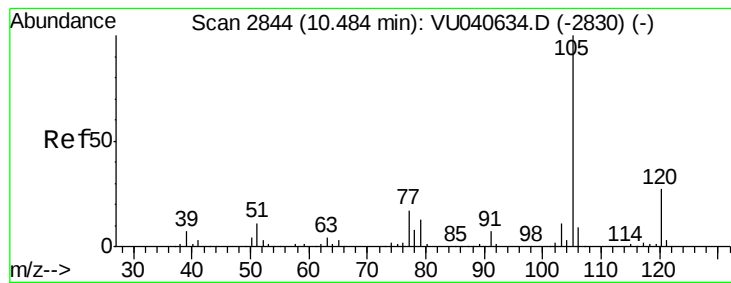
#55
Styrene
Concen: 5.452 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040710.D
Acq: 15 Oct 2020 10:33

Tgt Ion:104 Resp: 148069
Ion Ratio Lower Upper
104 100
78 48.7 34.6 64.3



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





#56

Isopropylbenzene

Concen: 5.199 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampled :

VSTD00511

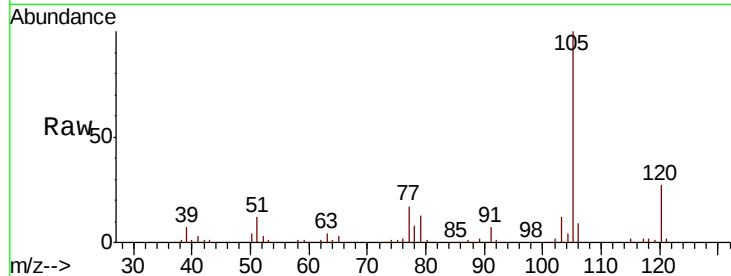
Tot Ion:105 Resp: 218874

Ion Ratio Lower Upper

105 100

120 26.1 20.6 30.8

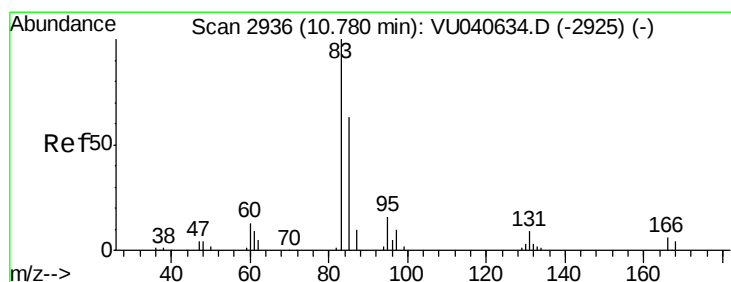
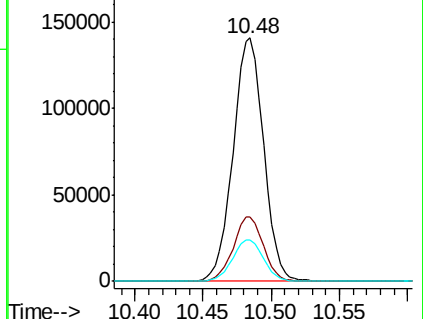
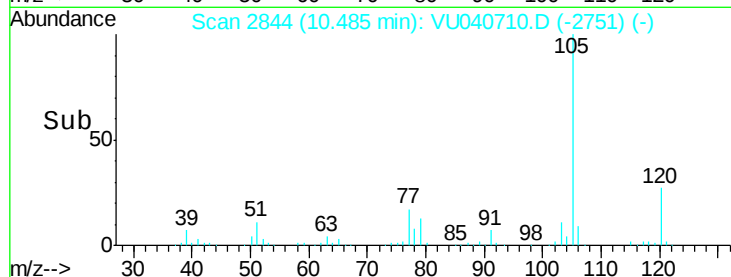
77 17.4 13.8 20.6



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: 5.293 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

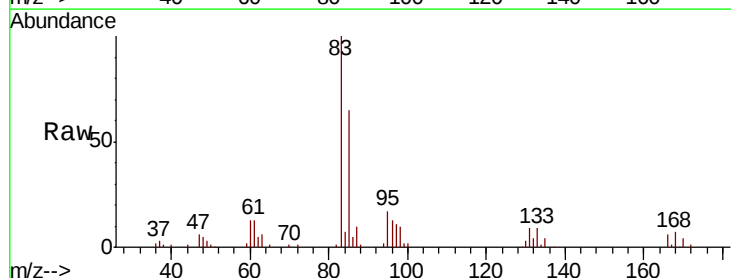
Tgt Ion: 83 Resp: 58663

Ion Ratio Lower Upper

83 100

85 64.8 45.6 84.6

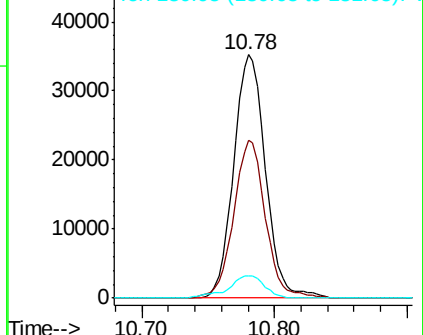
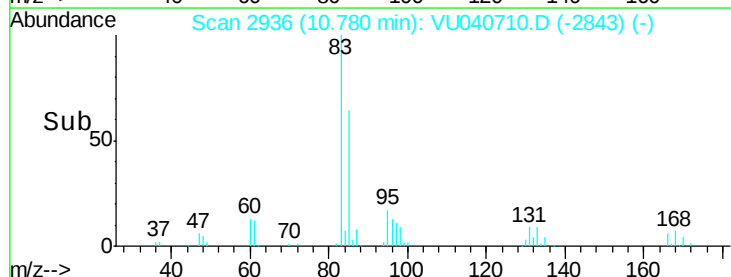
131 9.3 7.1 10.7

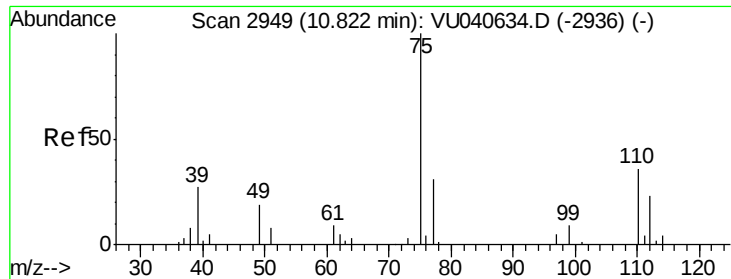


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

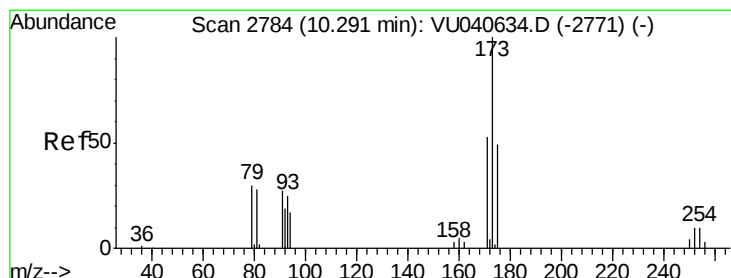
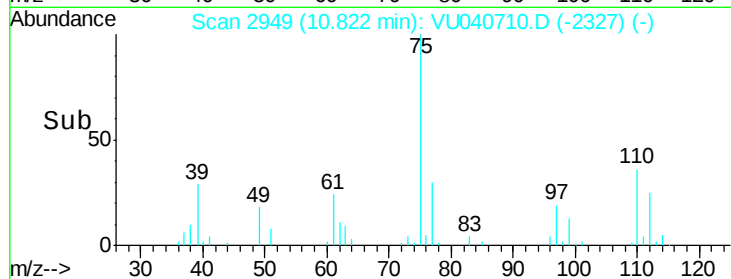
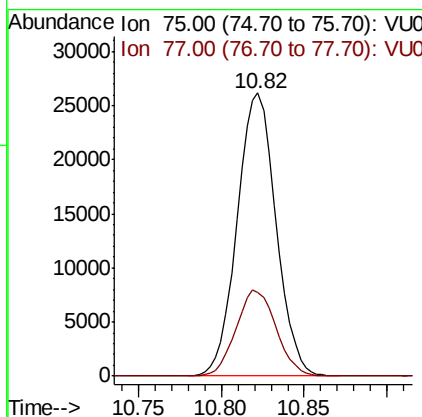
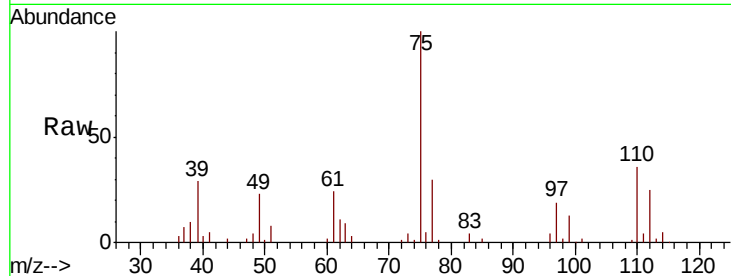




#59
 1,2,3-Trichloropropane
 Concen: 5.142 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

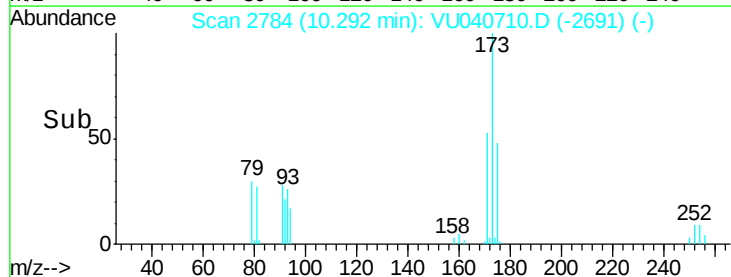
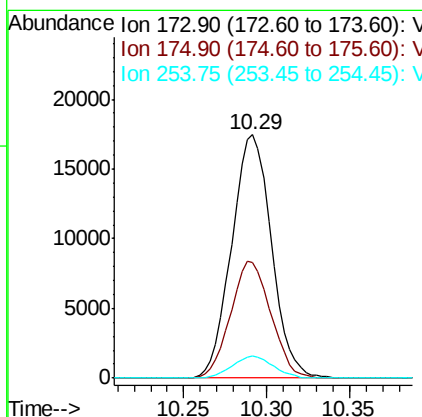
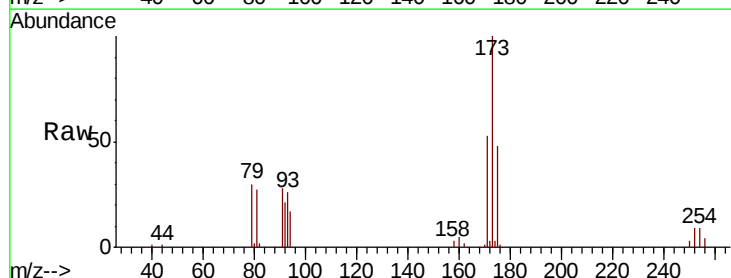
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

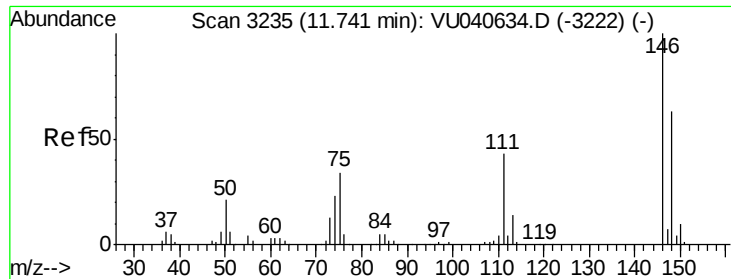
Tot Ion: 75 Resp: 42572
 Ion Ratio Lower Upper
 75 100
 77 31.4 26.4 39.6



#61
 Bromoform
 Concen: 5.134 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion: 173 Resp: 29278
 Ion Ratio Lower Upper
 173 100
 175 48.3 37.4 56.0
 254 9.2 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 5.165 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

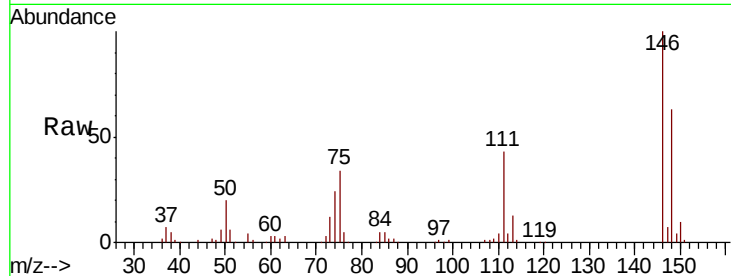
Tot Ion:146 Resp: 112458

Ion Ratio Lower Upper

146 100

111 43.3 28.8 53.6

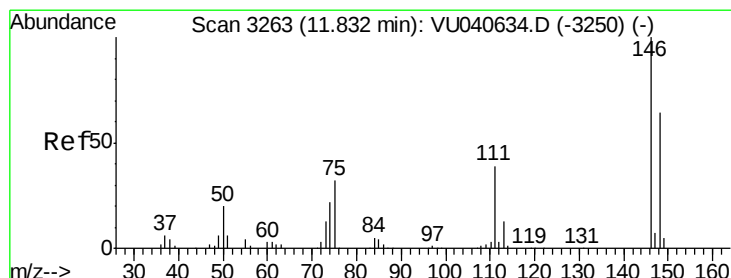
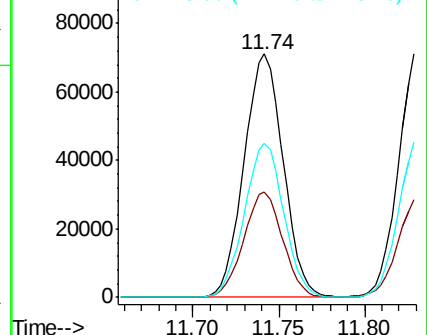
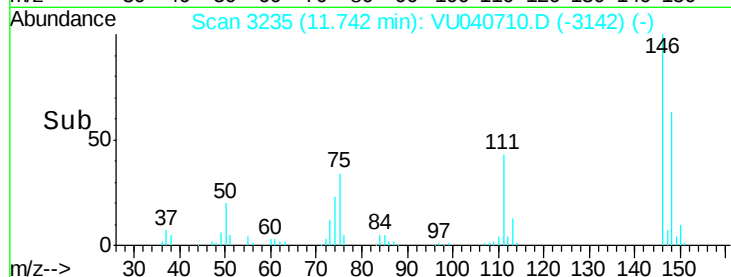
148 63.2 44.4 82.4



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



#63

1,4-Dichlorobenzene

Concen: 5.072 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

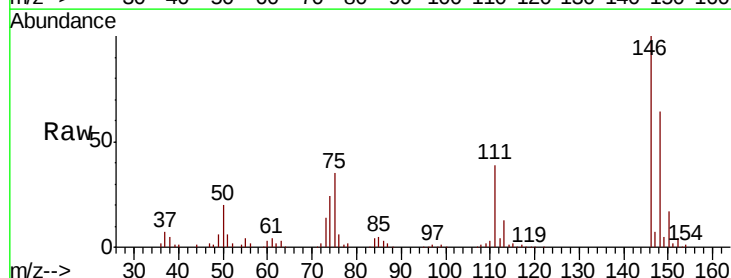
Tgt Ion:146 Resp: 113883

Ion Ratio Lower Upper

146 100

111 39.2 28.4 52.8

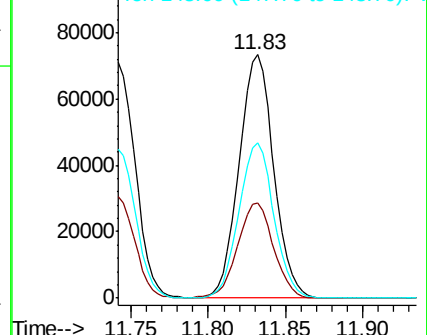
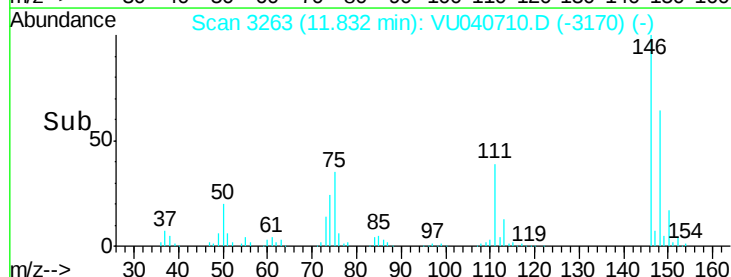
148 64.0 44.0 81.6

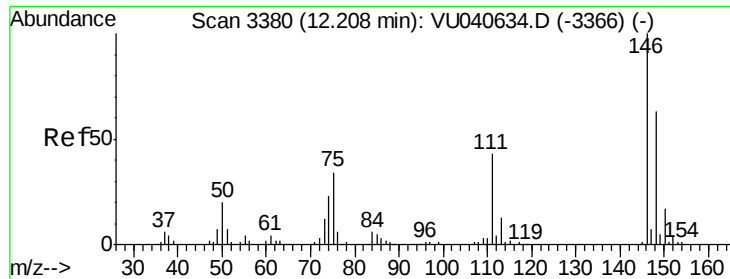


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.133 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

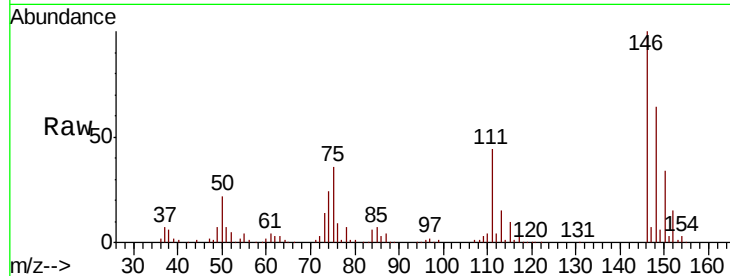
Tot Ion:146 Resp: 109262

Ion Ratio Lower Upper

146 100

111 44.0 34.4 51.6

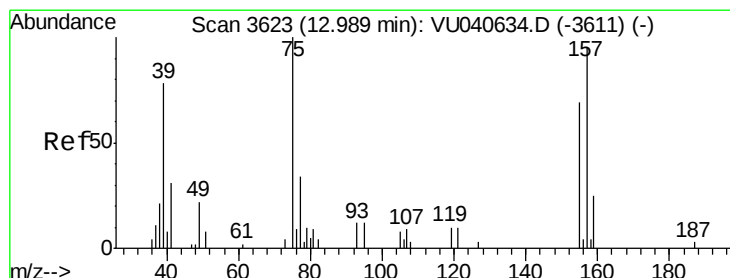
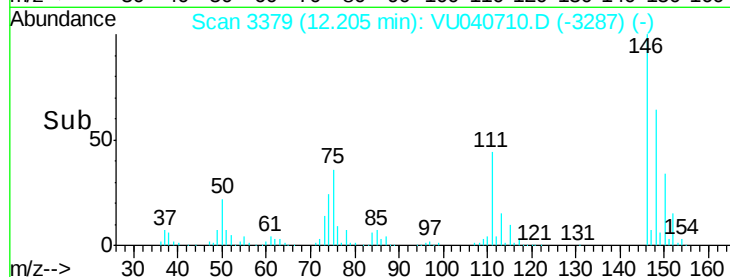
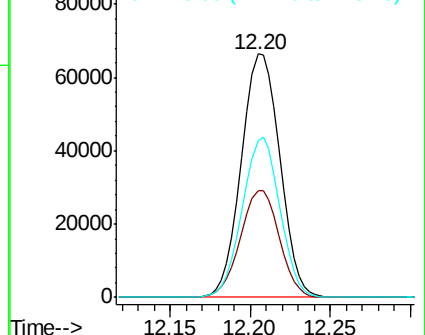
148 64.1 50.0 75.0



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: 4.905 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

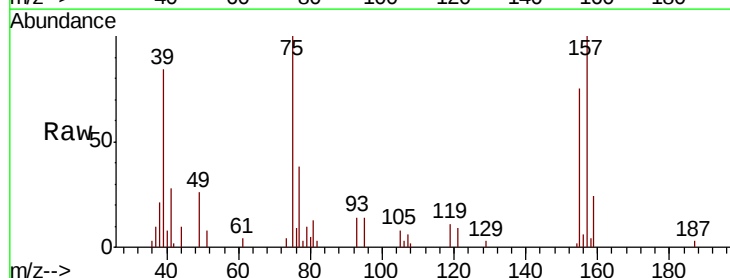
Tgt Ion: 75 Resp: 9143

Ion Ratio Lower Upper

75 100

155 75.7 53.8 80.6

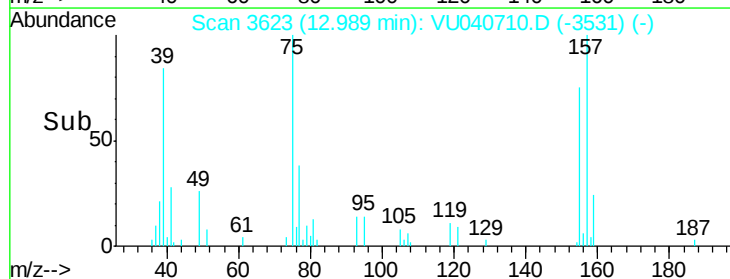
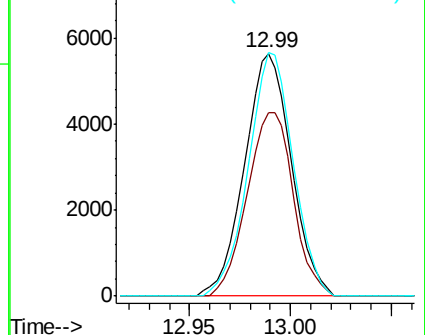
157 100.4 74.6 112.0

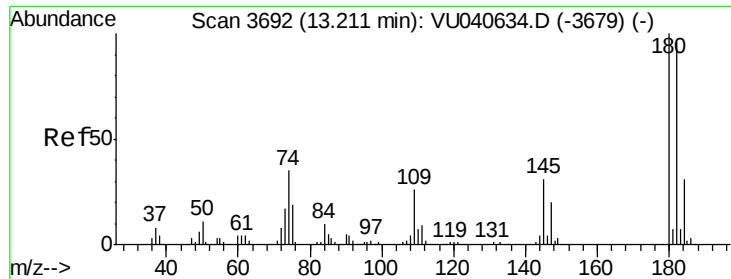


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

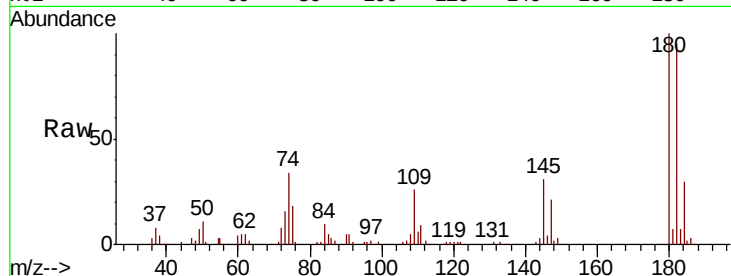




#67
 1,3,5-Trichlorobenzene
 Concen: 5.007 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00511

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.0	115.4
184	30.9	24.5	36.7
145	31.6	25.9	38.9



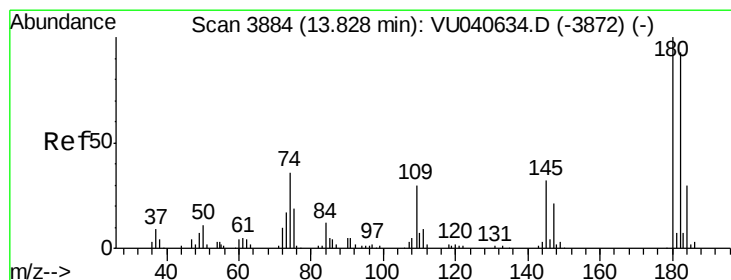
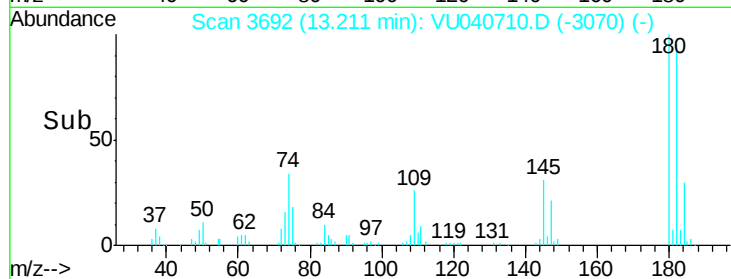
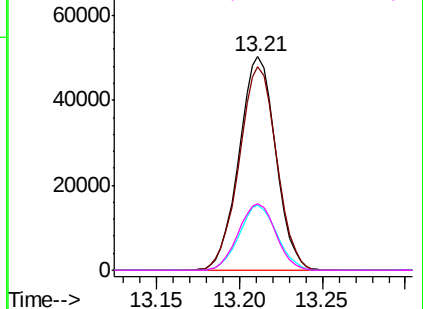
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

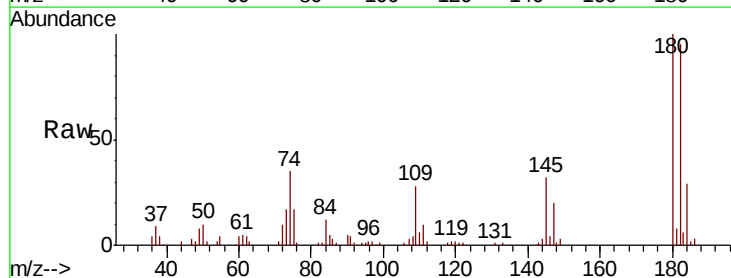
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.093 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040710.D
 Acq: 15 Oct 2020 10:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	78.8	118.2
145	31.5	26.1	39.1

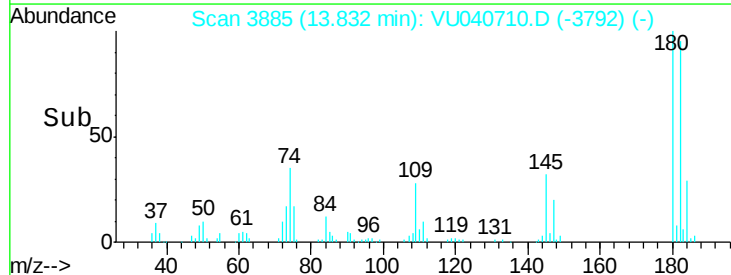
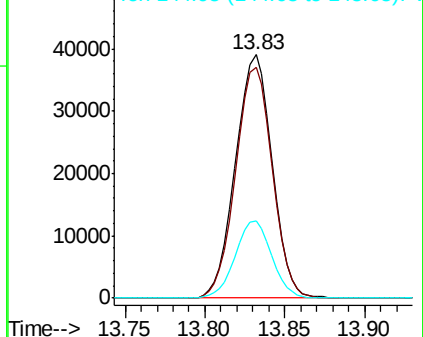


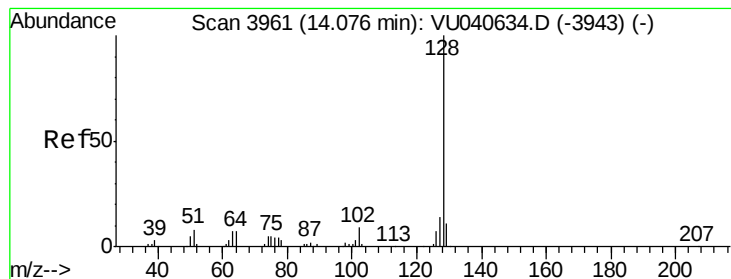
Abundance

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: 4.699 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

Instrument :

MSVOA_U

ClientSampleId :

VSTD00511

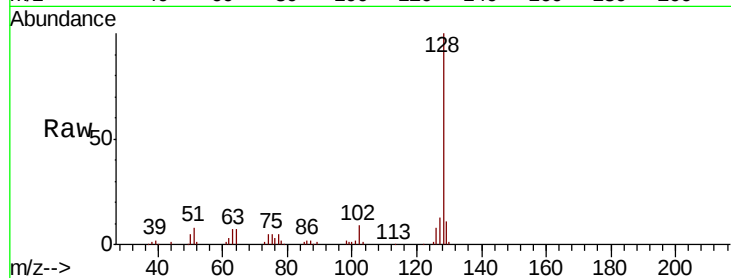
Tot Ion:128 Resp: 91753

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.4

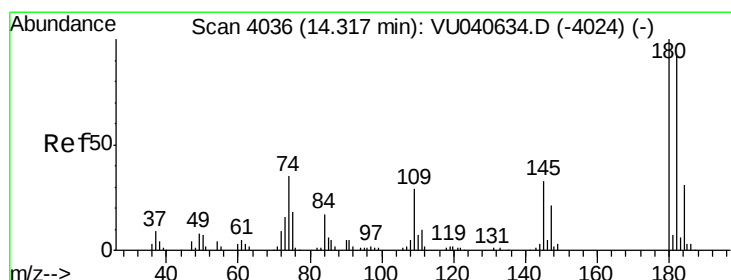
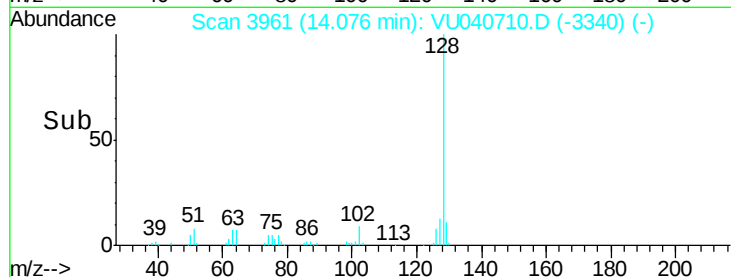
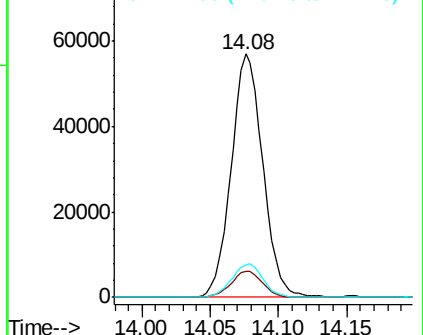
127 13.7 10.2 15.4



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: 5.176 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040710.D

Acq: 15 Oct 2020 10:33

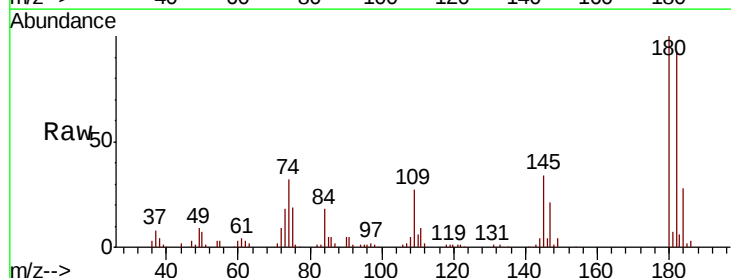
Tgt Ion:180 Resp: 57377

Ion Ratio Lower Upper

180 100

182 96.4 75.8 113.8

145 33.6 27.4 41.2



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

