

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101520\
 Data File : VU040736.D
 Acq On : 15 Oct 2020 21:20
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Quant Time: Oct 16 04:35:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 16 04:23:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	120629	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	121375	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	67257	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	44751	4.48	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.60%
7) Chloroethane-d5	1.92	69	38001	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.58	63	94206	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.40%
20) 2-Butanone-d5	4.66	46	170082	53.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.34%
24) Chloroform-d	5.08	84	96600	5.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.20%
26) 1,2-Dichloroethane-d4	5.72	65	56182	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.20%
32) Benzene-d6	5.74	84	175917	5.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.60%
36) 1,2-Dichloropropane-d6	6.70	67	57511	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.91	98	159726	5.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.00%
43) trans-1,3-Dichloropropene-	8.19	79	23239	5.05	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.00%
46) 2-Hexanone-d5	8.64	63	127299	53.66	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.32%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	52803	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	62612	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	51108	4.676	ug/L	100
3) Chloromethane	1.53	50	44887	4.392	ug/L	98
5) Vinyl chloride	1.61	62	49508	4.599	ug/L #	80
6) Bromomethane	1.87	94	18664	3.193	ug/L	91
8) Chloroethane	1.94	64	32501	4.742	ug/L	95
9) Trichlorofluoromethane	2.15	101	76065	4.921	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	49958	4.979	ug/L	97
12) 1,1-Dichloroethene	2.59	96	41935	4.872	ug/L	94
13) Acetone	2.66	43	114484	46.175	ug/L	96
14) Carbon disulfide	2.81	76	103493	4.295	ug/L	100
15) Methyl Acetate	2.97	43	27198	4.804	ug/L	100
16) Methylene chloride	3.06	84	53146	4.809	ug/L	99
17) Methyl tert-butyl Ether	3.38	73	118030	4.850	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	43896	4.872	ug/L	100
19) 1,1-Dichloroethane	3.89	63	97102	5.211	ug/L	98
21) 2-Butanone	4.73	43	190182	49.200	ug/L	99
22) cis-1,2-Dichloroethene	4.69	96	52290	5.382	ug/L	97

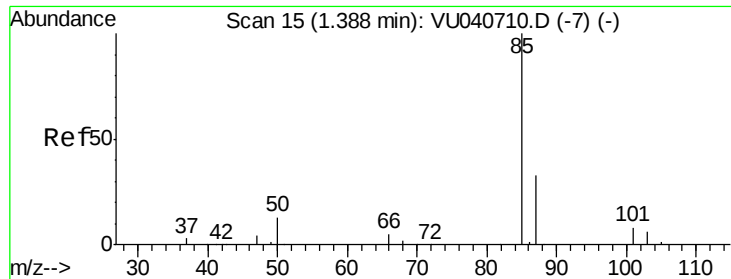
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101520\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 16 04:23:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	24386	5.052	ug/L	95
25) Chloroform	5.11	83	102144	5.369	ug/L	100
27) 1,2-Dichloroethane	5.81	62	69084	5.131	ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	83936	5.146	ug/L	99
30) Cyclohexane	5.40	56	67456	4.488	ug/L	100
31) Carbon tetrachloride	5.54	117	72052	5.162	ug/L	97
33) Benzene	5.79	78	195663	5.018	ug/L	100
34) Trichloroethene	6.55	95	50109	4.957	ug/L	93
35) Methylcyclohexane	6.77	83	62484	4.359	ug/L	99
37) 1,2-Dichloropropane	6.80	63	56095	5.163	ug/L	100
38) Bromodichloromethane	7.11	83	73256	5.275	ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	71625	4.825	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	445638	51.447	ug/L	99
42) Toluene	7.98	91	211782	5.330	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	67646	4.950	ug/L	98
45) 1,1,2-Trichloroethane	8.41	97	42363	5.206	ug/L	96
47) Tetrachloroethene	8.56	164	36945	5.123	ug/L	95
48) 2-Hexanone	8.69	43	335117	51.964	ug/L	98
49) Dibromochloromethane	8.81	129	50478	5.391	ug/L	99
50) 1,2-Dibromoethane	8.93	107	39563	5.126	ug/L	97
51) Chlorobenzene	9.45	112	133098	5.085	ug/L	99
52) Ethylbenzene	9.57	91	214510	4.988	ug/L	98
53) m,p-Xylene	9.70	106	81817	5.220	ug/L	97
54) o-Xylene	10.10	106	77051	5.112	ug/L	99
55) Styrene	10.11	104	143714	5.490	ug/L	99
56) Isopropylbenzene	10.48	105	212076	5.226	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	55928	5.235	ug/L	98
59) 1,2,3-Trichloropropane	10.82	75	41921	5.253	ug/L	97
61) Bromoform	10.29	173	27891	4.838	ug/L	96
62) 1,3-Dichlorobenzene	11.74	146	112038	5.090	ug/L	99
63) 1,4-Dichlorobenzene	11.83	146	113195	4.987	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	107597	5.000	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.99	75	9247	4.907	ug/L	98
67) 1,3,5-Trichlorobenzene	13.21	180	73694	4.718	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	58948	4.885	ug/L	96
69) Naphthalene	14.08	128	88819	4.499	ug/L	98
70) 1,2,3-Trichlorobenzene	14.32	180	56567	5.048	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.676 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

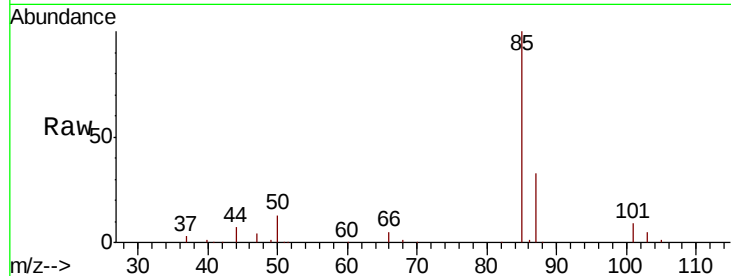
VSTD00512

Tot Ion: 85 Resp: 51108

Ion Ratio Lower Upper

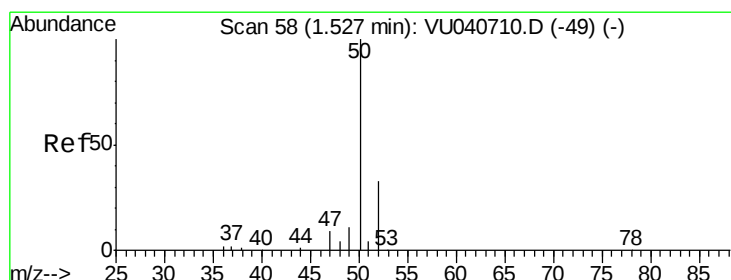
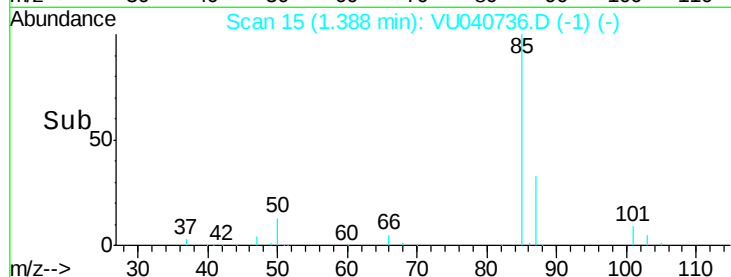
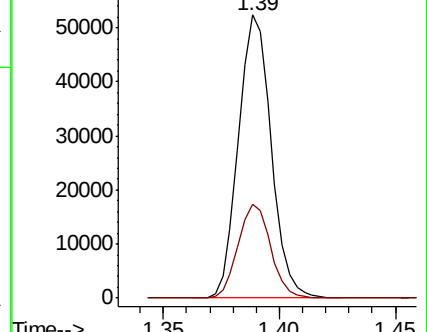
85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU040736.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU040736.D (-1) (-)



#3

Chloromethane

Concen: 4.392 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040736.D

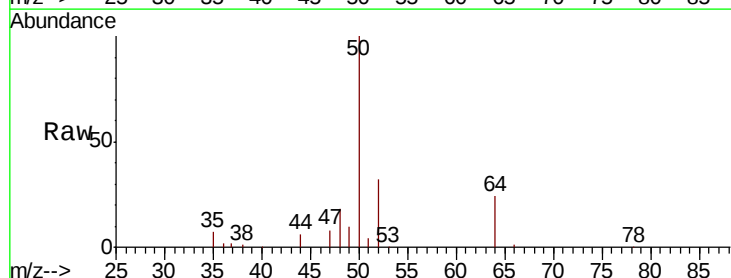
Acq: 15 Oct 2020 21:20

Tgt Ion: 50 Resp: 44887

Ion Ratio Lower Upper

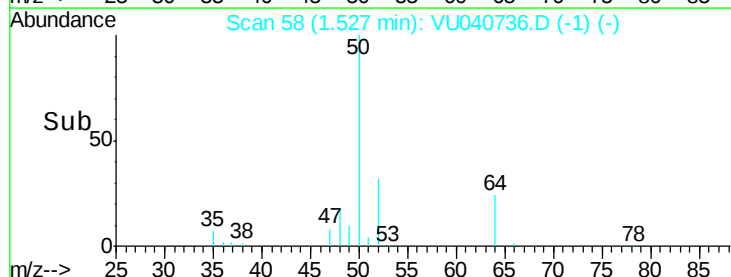
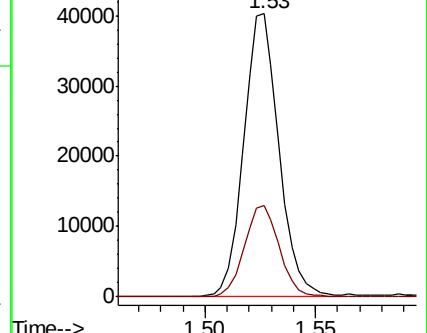
50 100

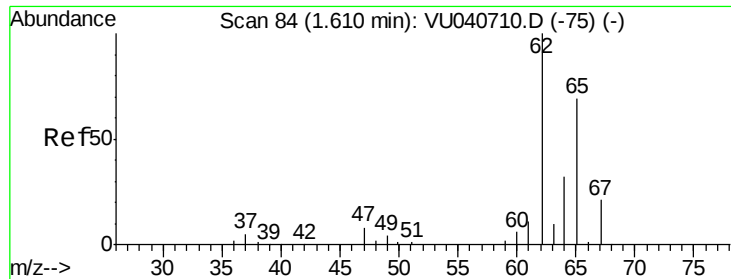
52 32.3 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU040736.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU040736.D (-1) (-)





#5

Vinyl chloride

Concen: 4.599 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

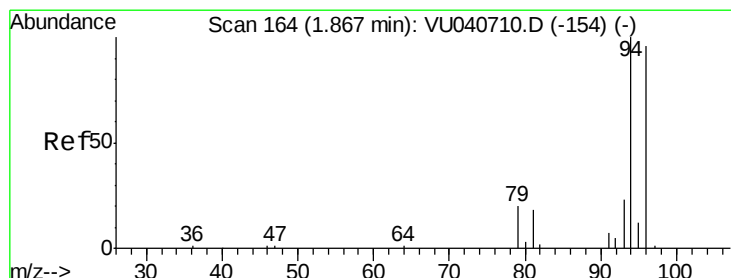
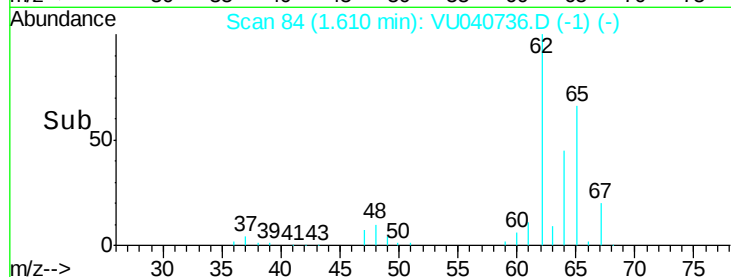
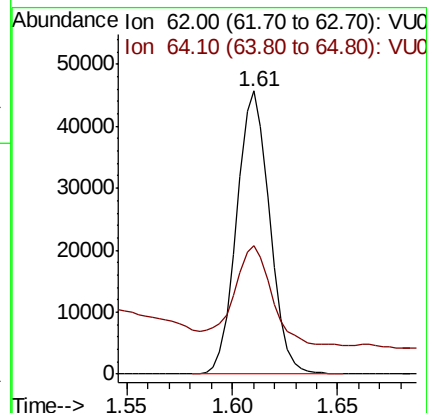
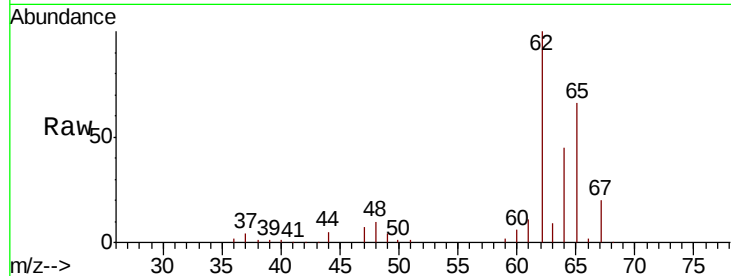
VSTD00512

Tot Ion: 62 Resp: 49508

Ion Ratio Lower Upper

62 100

64 45.3 23.7 44.1#



#6

Bromomethane

Concen: 3.193 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040736.D

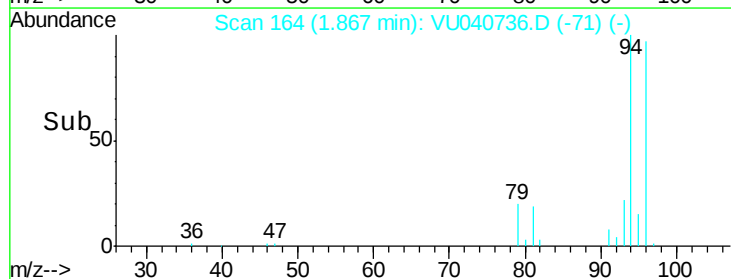
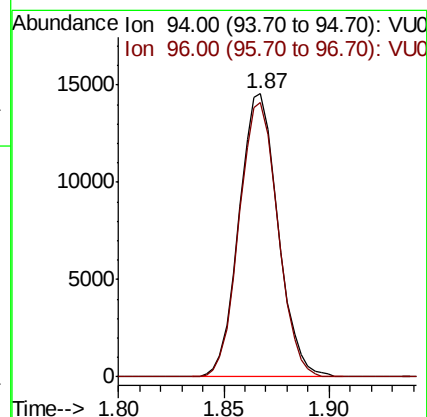
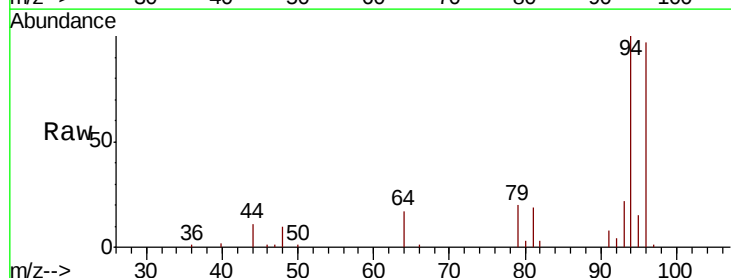
Acq: 15 Oct 2020 21:20

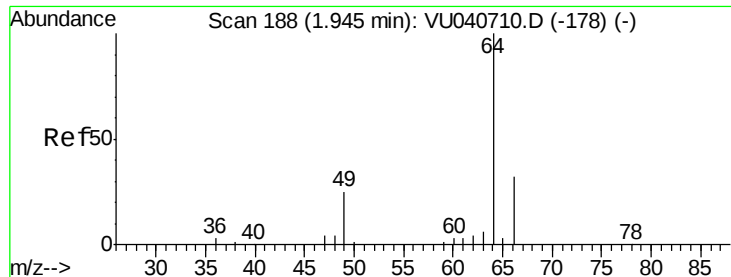
Tgt Ion: 94 Resp: 18664

Ion Ratio Lower Upper

94 100

96 97.1 62.1 115.3

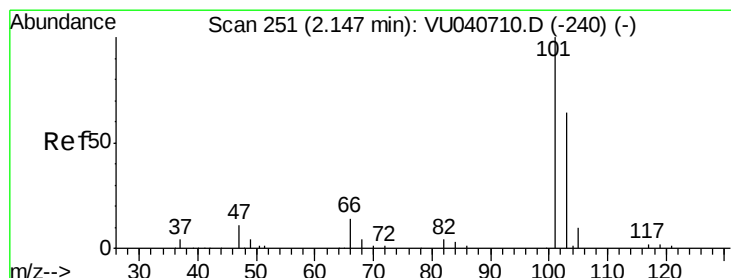
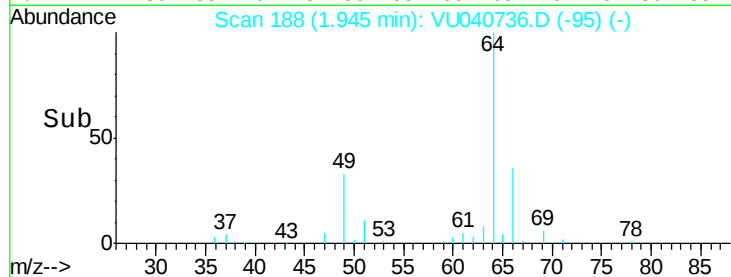
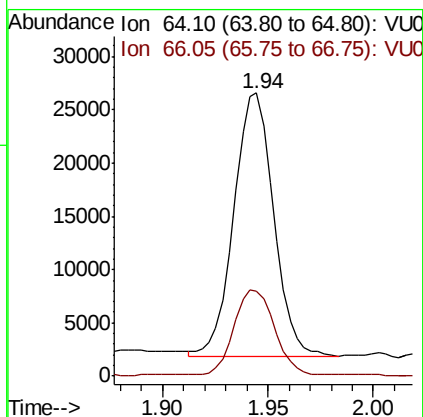
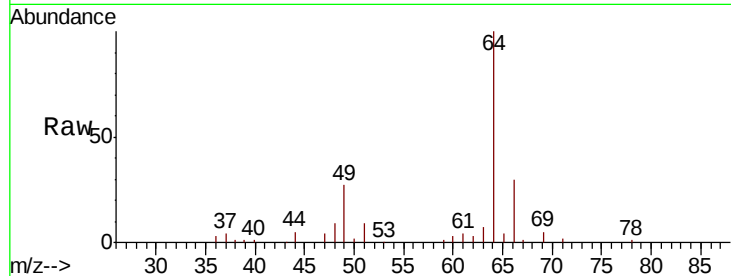




#8
Chloroethane
Concen: 4.742 ug/L
RT: 1.94 min Scan# 188
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

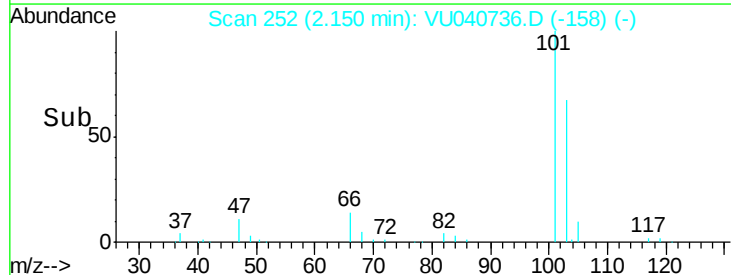
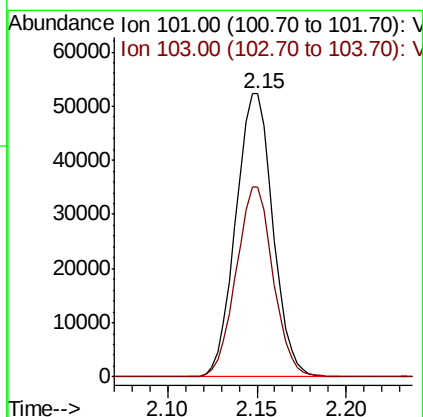
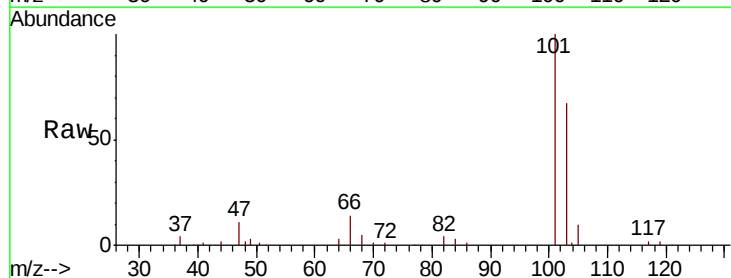
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

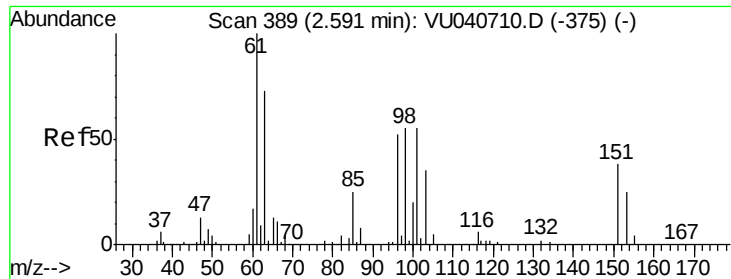
Tot Ion: 64 Resp: 32501
Ion Ratio Lower Upper
64 100
66 30.2 23.3 43.3



#9
Trichlorofluoromethane
Concen: 4.921 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Tgt Ion:101 Resp: 76065
Ion Ratio Lower Upper
101 100
103 66.6 52.2 78.4





#10

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

Concen: 4.979 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

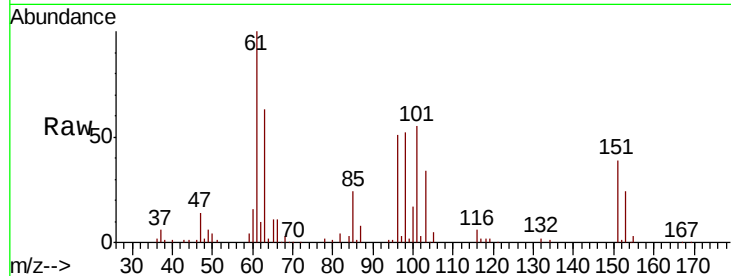
Tot Ion:101 Resp: 49958

Ion Ratio Lower Upper

101 100

85 43.1 36.7 55.1

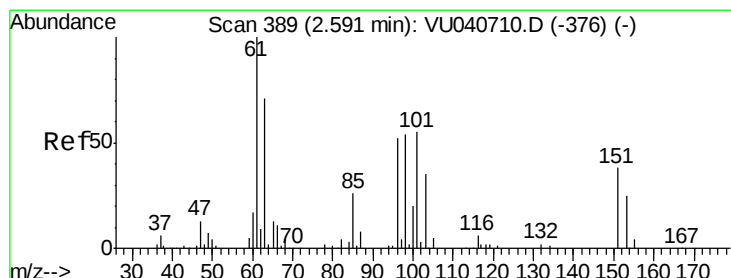
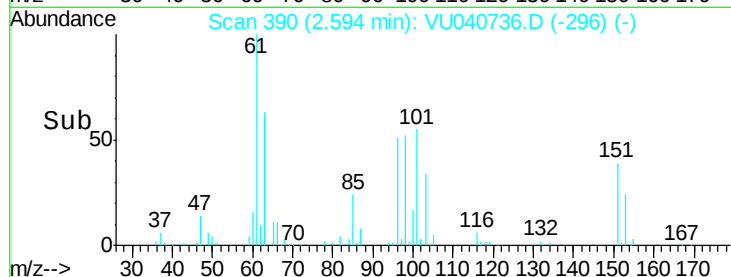
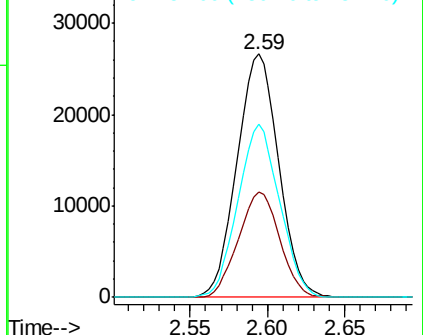
151 71.2 58.0 87.0



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: 4.872 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

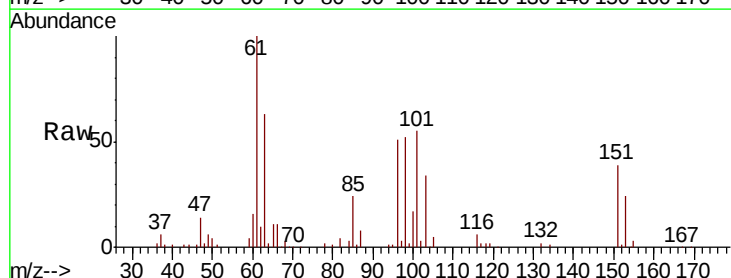
Tgt Ion: 96 Resp: 41935

Ion Ratio Lower Upper

96 100

61 196.6 128.8 239.2

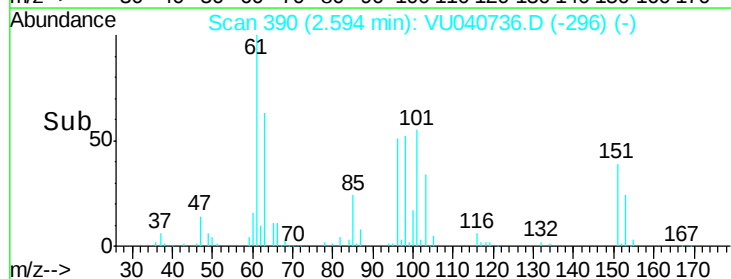
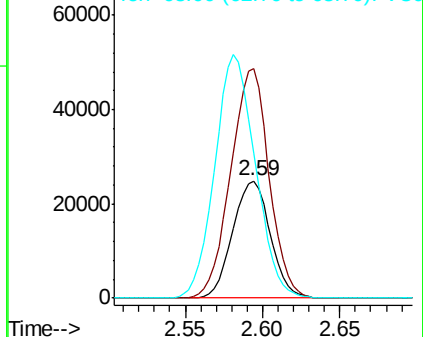
63 124.0 84.6 157.2

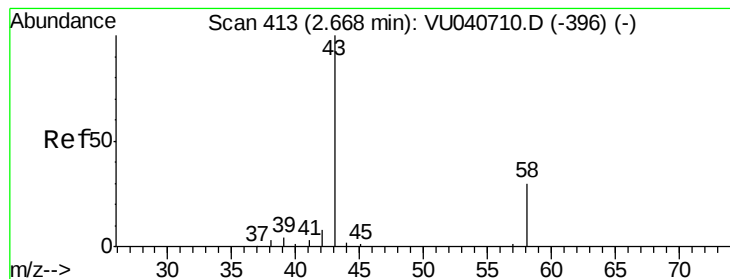


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 46.175 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

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ClientSampleId :

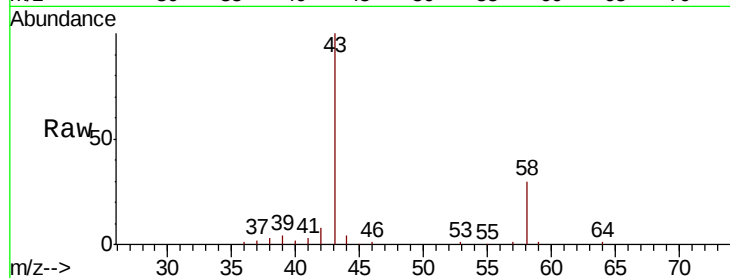
VSTD00512

Tot Ion: 43 Resp: 114484

Ion Ratio Lower Upper

43 100

58 28.2 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040736.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU040736.D (-320) (-)

2.66

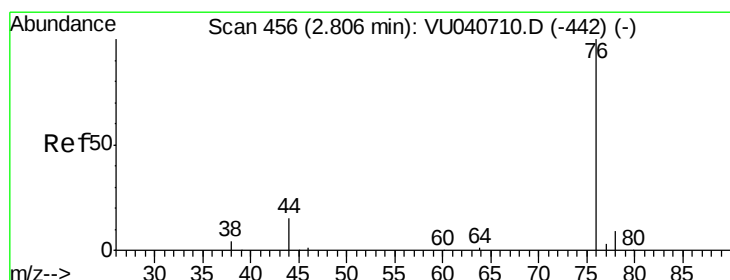
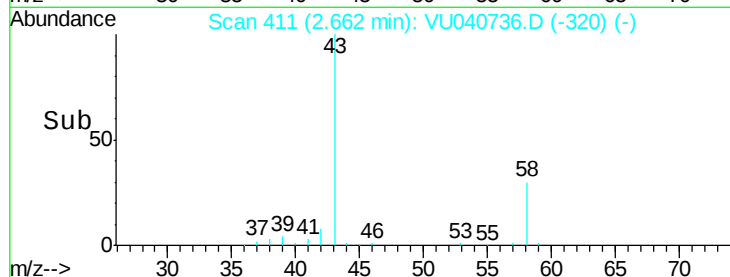
30000

20000

10000

0

Time-->



#14

Carbon disulfide

Concen: 4.295 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040736.D

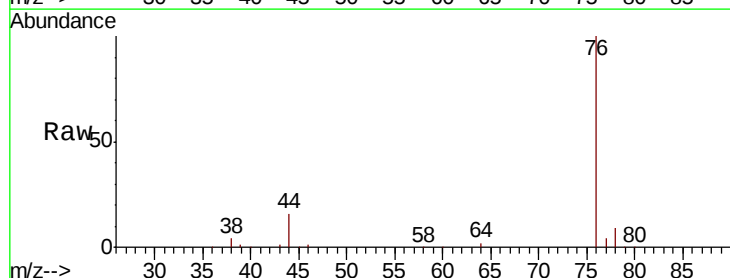
Acq: 15 Oct 2020 21:20

Tgt Ion: 76 Resp: 103493

Ion Ratio Lower Upper

76 100

78 8.6 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040736.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040736.D (-363) (-)

2.81

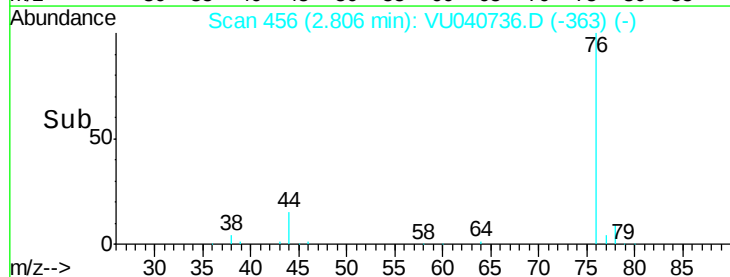
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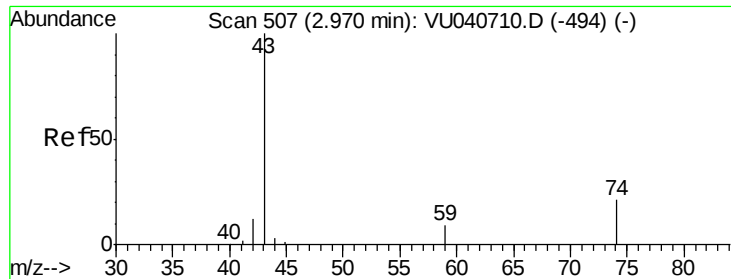
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Time-->

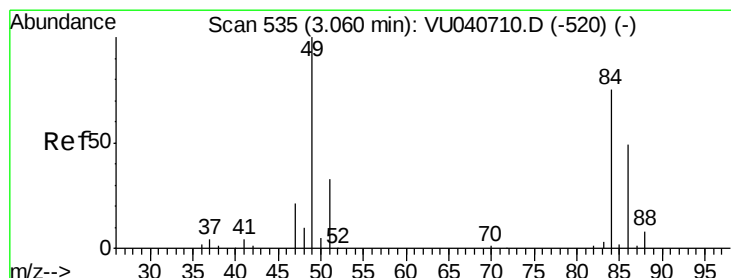
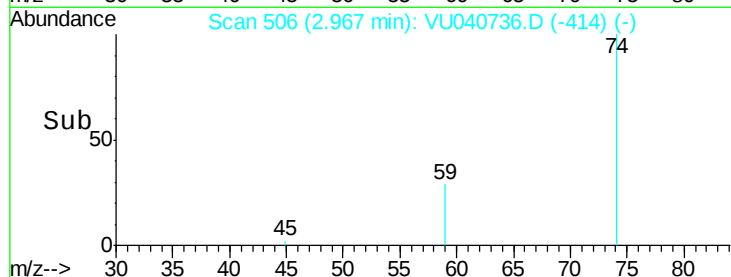
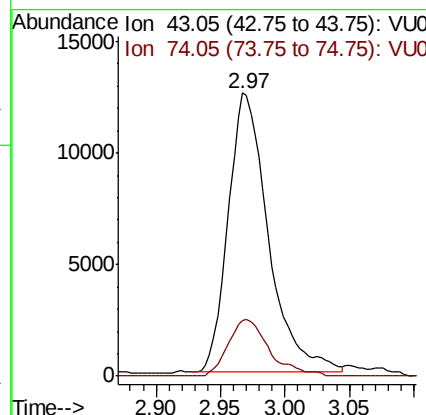
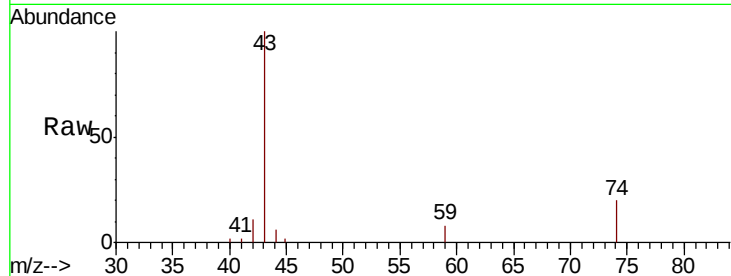




#15
Methvl Acetate
Concen: 4.804 ug/L
RT: 2.97 min Scan# 506
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

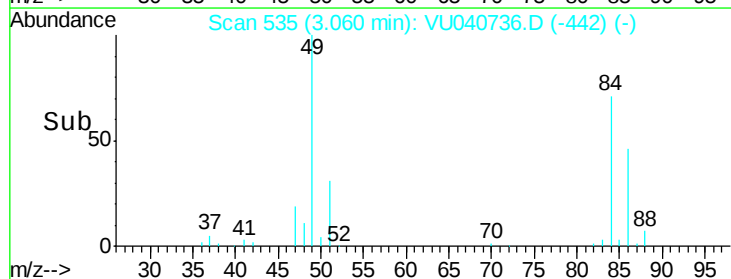
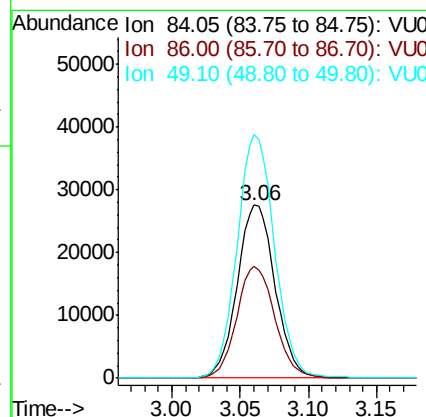
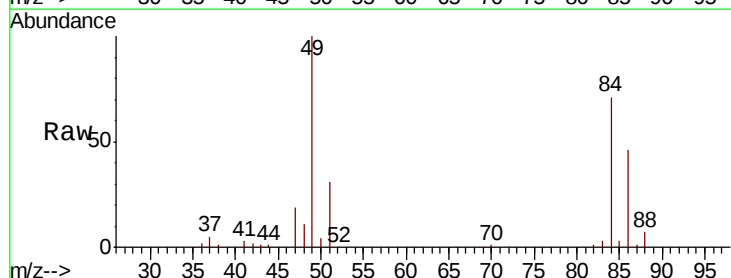
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

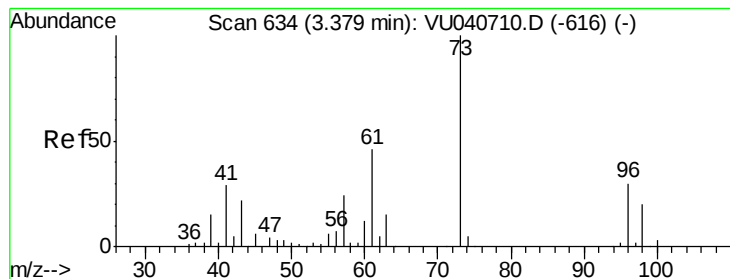
Tot Ion: 43 Resp: 27198
Ion Ratio Lower Upper
43 100
74 20.6 16.5 24.7



#16
Methylene chloride
Concen: 4.809 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Tgt Ion: 84 Resp: 53146
Ion Ratio Lower Upper
84 100
86 64.7 45.4 84.4
49 140.9 99.8 185.3



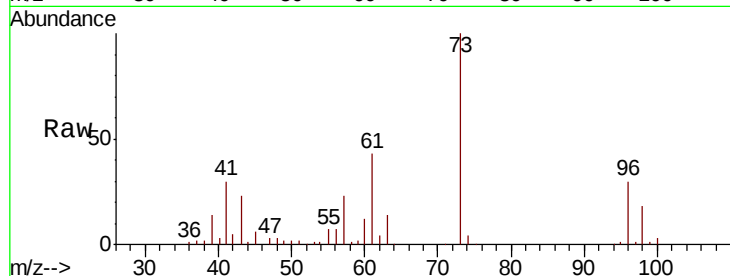


#17

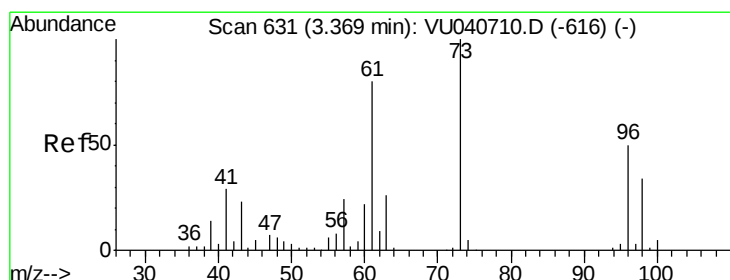
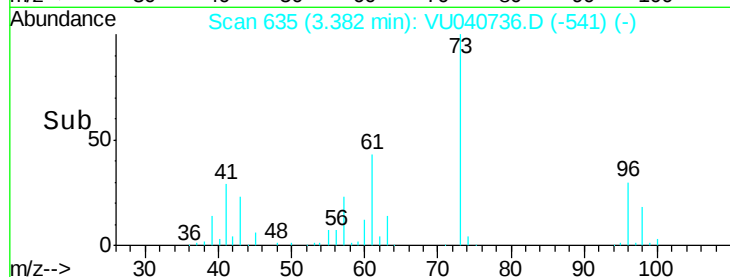
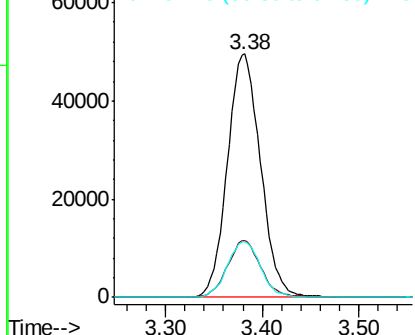
Methvl tert-butvl Ether
 Concen: 4.850 ug/L
 RT: 3.38 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion: 73 Resp: 118030
 Ion Ratio Lower Upper
 73 100
 43 23.7 18.2 27.4
 57 22.8 18.6 28.0



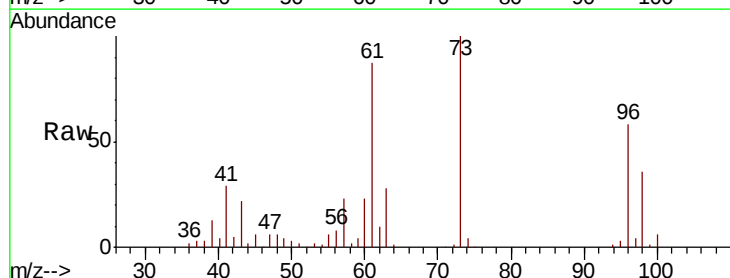
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



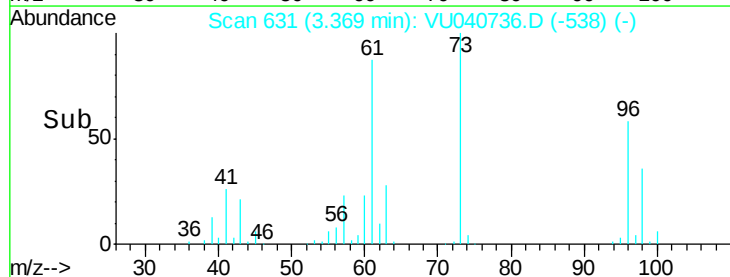
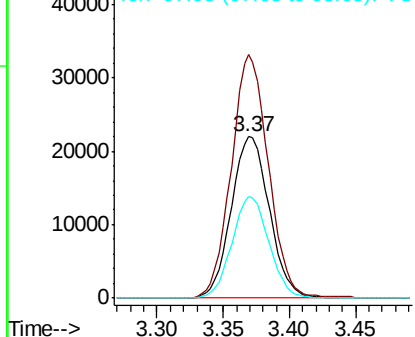
#18

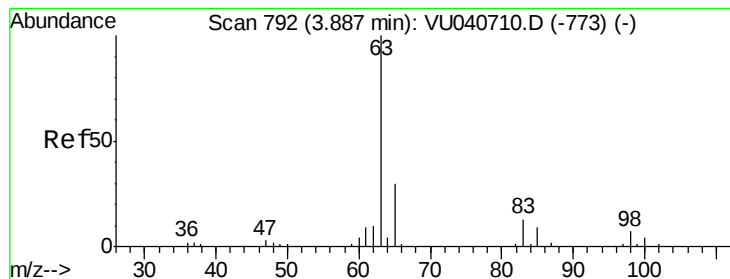
trans-1,2-Dichloroethene
 Concen: 4.872 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Tgt Ion: 96 Resp: 43896
 Ion Ratio Lower Upper
 96 100
 61 151.1 105.9 196.7
 98 63.0 43.8 81.3



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: 5.211 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampled :

VSTD00512

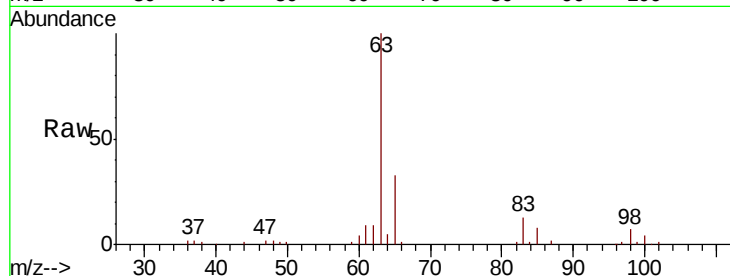
Tot Ion: 63 Resp: 97102

Ion Ratio Lower Upper

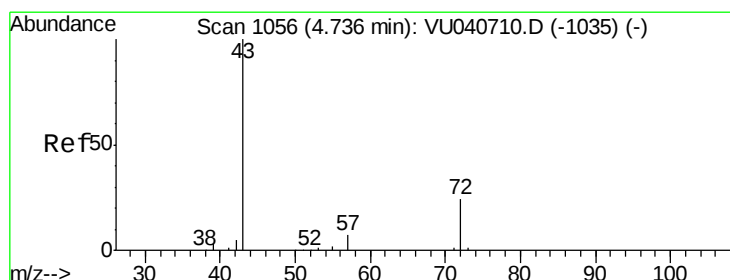
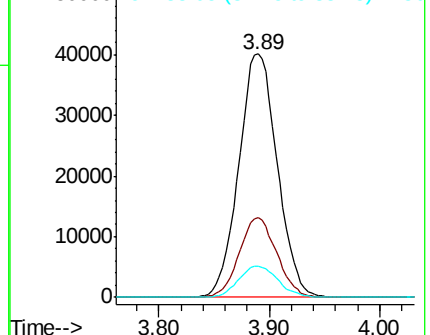
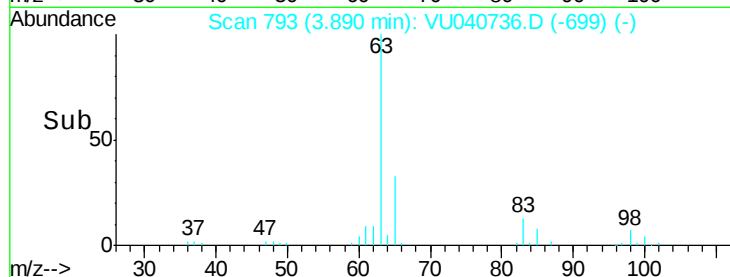
63 100

65 32.6 21.9 40.7

83 12.8 9.6 17.8



Abundance Ion 63.10 (62.80 to 63.80): VU040736.D (-699) (-)



#21

2-Butanone

Concen: 49.200 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VU040736.D

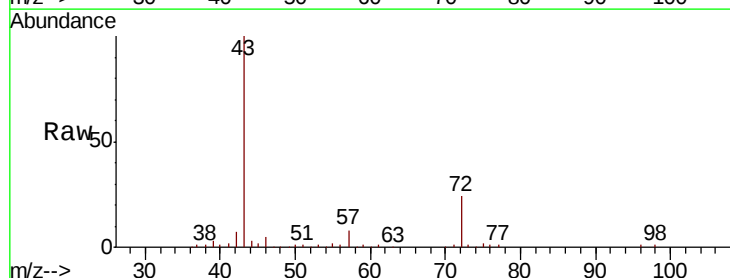
Acq: 15 Oct 2020 21:20

Tgt Ion: 43 Resp: 190182

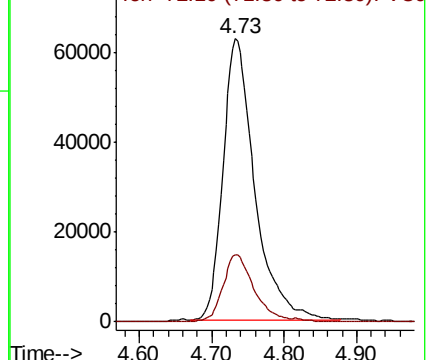
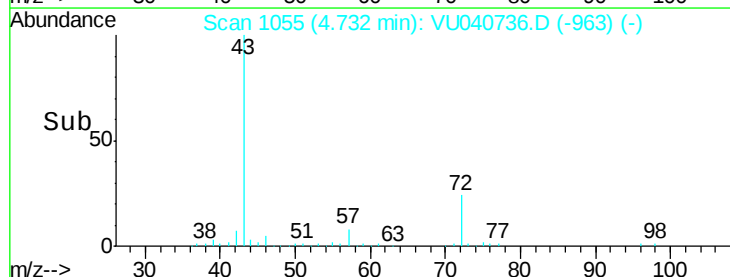
Ion Ratio Lower Upper

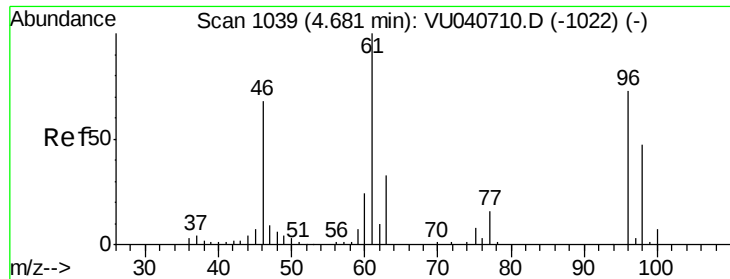
43 100

72 23.5 11.4 34.2



Abundance Ion 43.05 (42.75 to 43.75): VU040736.D (-963) (-)

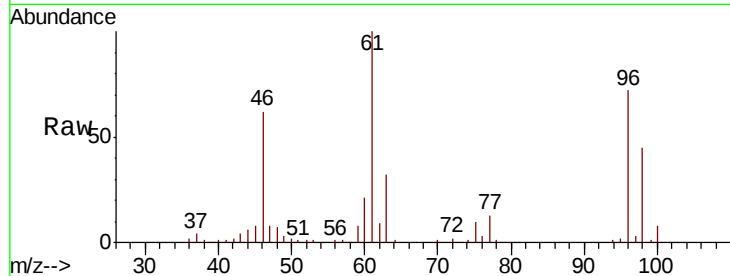




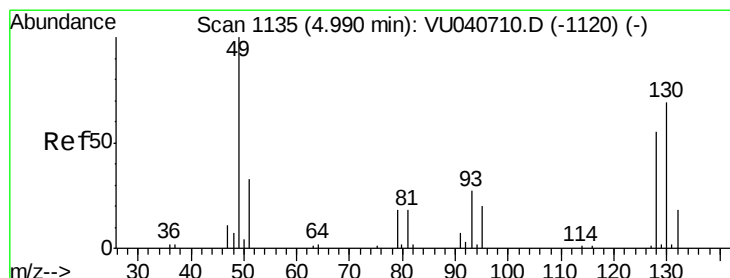
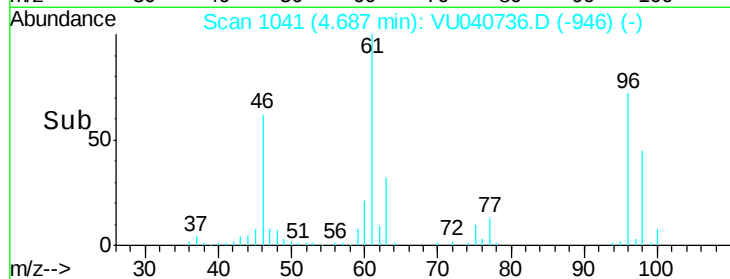
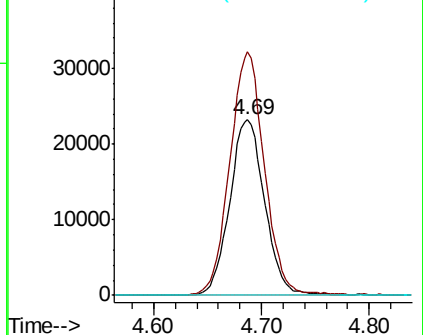
#22
 cis-1,2-Dichloroethene
 Concen: 5.382 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion: 96 Resp: 52290
 Ion Ratio Lower Upper
 96 100
 61 139.0 99.8 185.4
 68 0.0 0.0 0.0

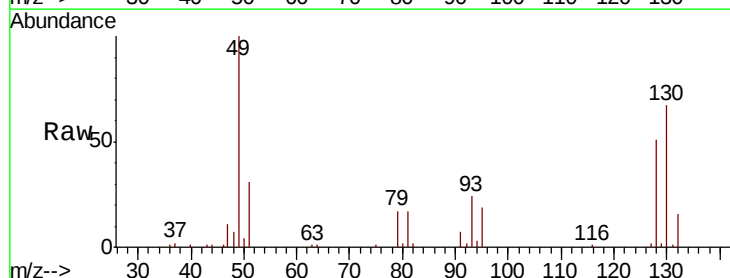


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

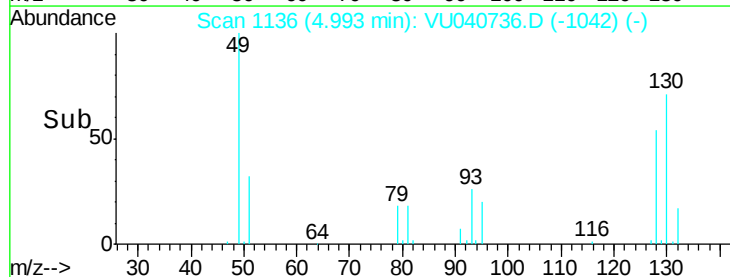
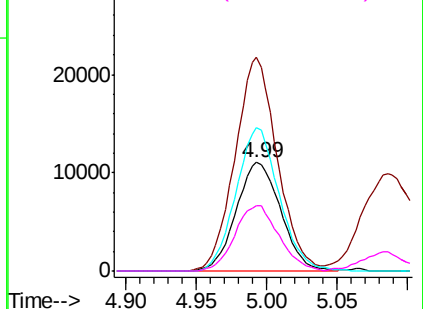


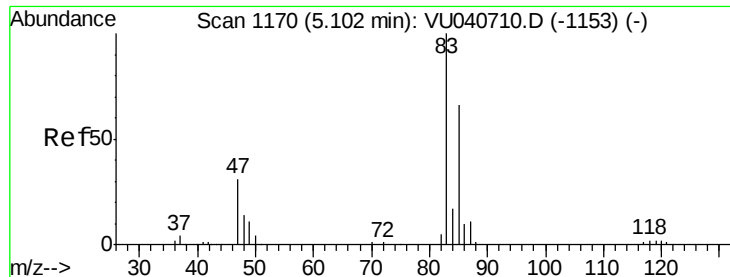
#23
 Bromochloromethane
 Concen: 5.052 ug/L
 RT: 4.99 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Tgt Ion: 128 Resp: 24386
 Ion Ratio Lower Upper
 128 100
 49 196.4 132.2 245.4
 130 132.0 89.2 165.8
 51 60.6 45.3 67.9



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

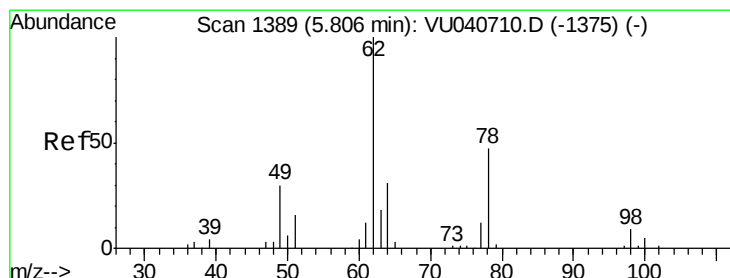
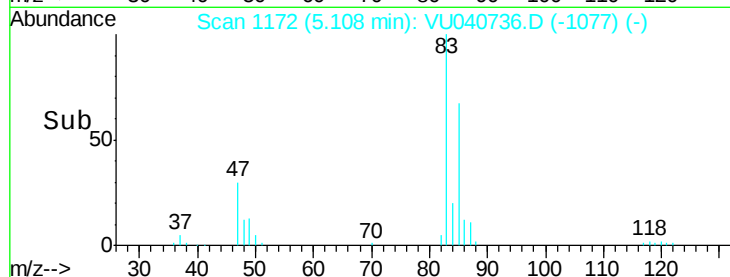
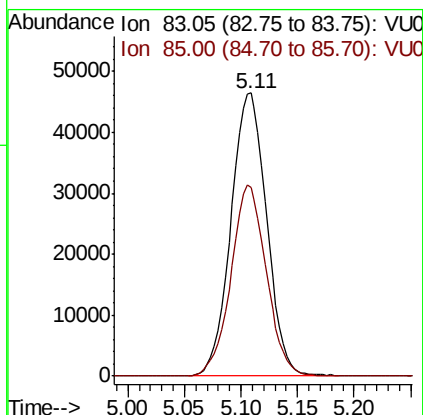
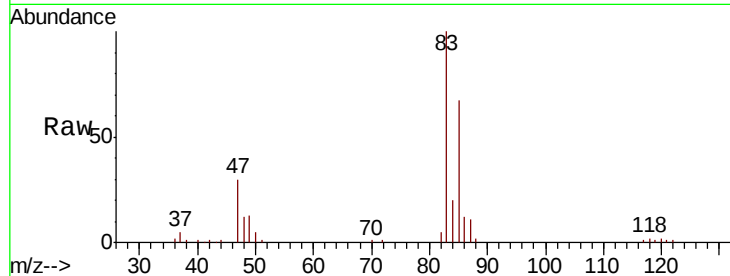




#25
Chloroform
Concen: 5.369 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.01 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

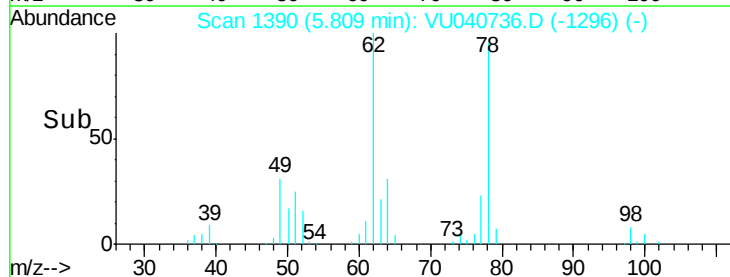
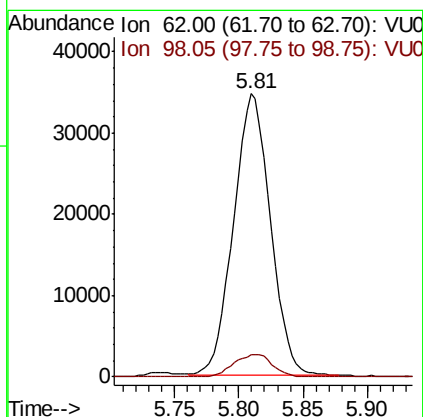
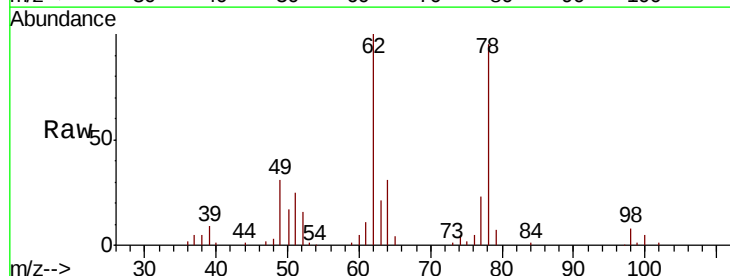
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

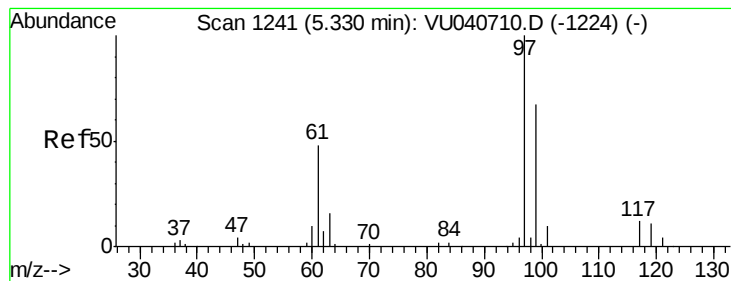
Tot Ion: 83 Resp: 102144
Ion Ratio Lower Upper
83 100
85 66.5 46.5 86.5



#27
1,2-Dichloroethane
Concen: 5.131 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Tgt Ion: 62 Resp: 69084
Ion Ratio Lower Upper
62 100
98 7.7 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 5.146 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

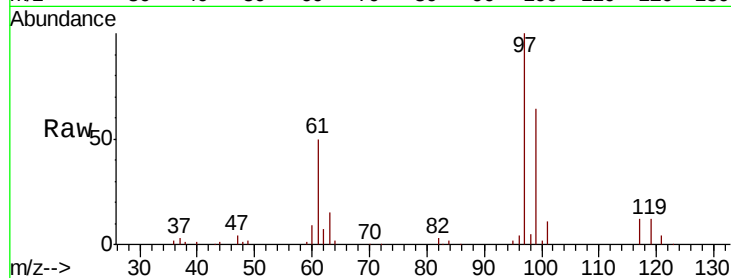
Tot Ion: 97 Resp: 83936

Ion Ratio Lower Upper

97 100

99 65.5 51.3 76.9

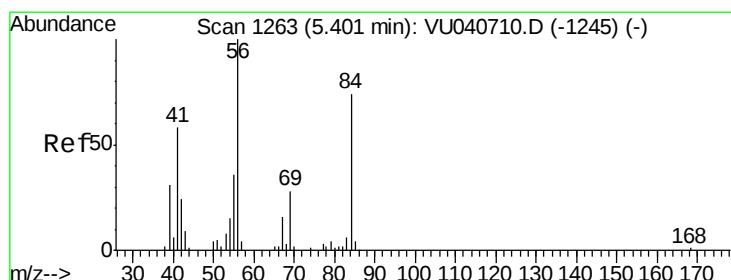
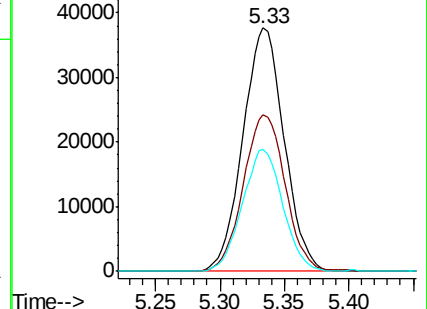
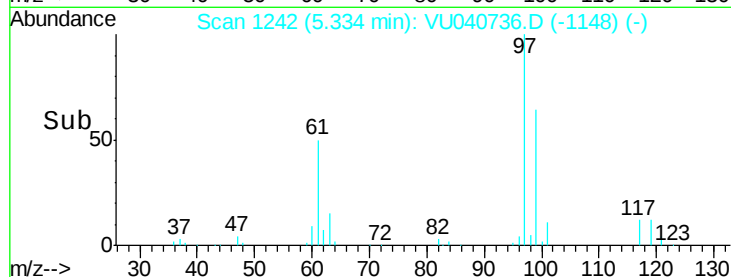
61 49.0 39.4 59.2



Abundance Ion 96.95 (96.65 to 97.65): VU040736.D (-1148) (-)

Ion 99.05 (98.75 to 99.75): VU040736.D (-1148) (-)

Ion 61.05 (60.75 to 61.75): VU040736.D (-1148) (-)



#30

Cyclohexane

Concen: 4.488 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

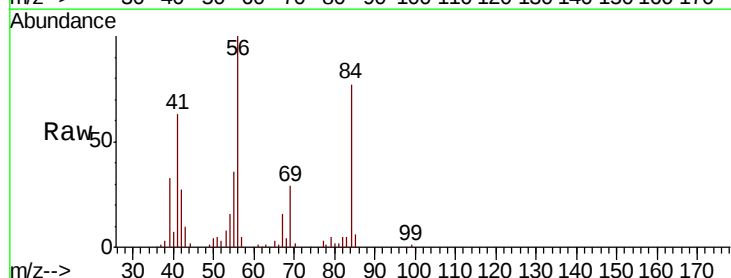
Tgt Ion: 56 Resp: 67456

Ion Ratio Lower Upper

56 100

69 28.9 23.8 35.8

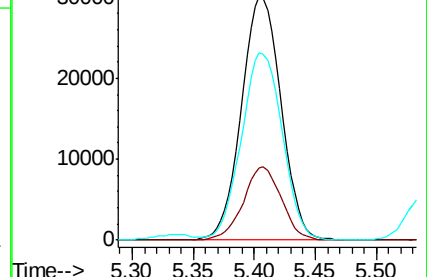
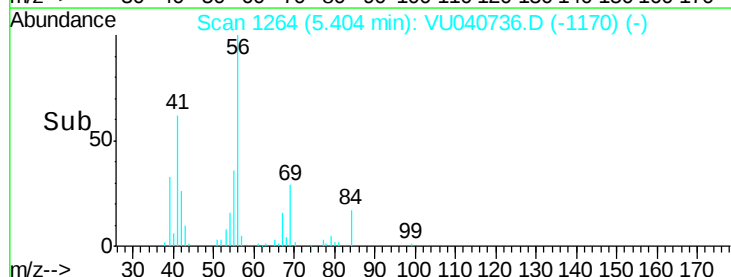
84 80.0 64.0 96.0

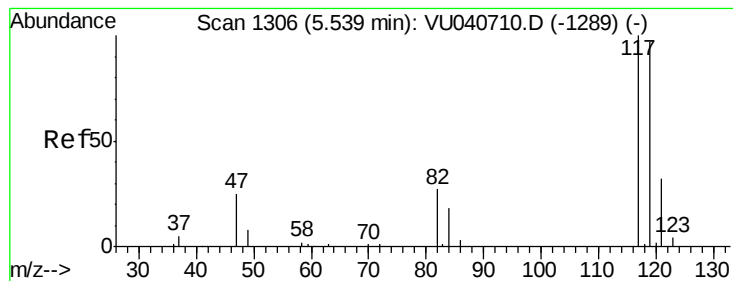


Abundance Ion 56.10 (55.80 to 56.80): VU040736.D (-1170) (-)

Ion 69.15 (68.85 to 69.85): VU040736.D (-1170) (-)

Ion 84.15 (83.85 to 84.85): VU040736.D (-1170) (-)





#31

Carbon tetrachloride

Concen: 5.162 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

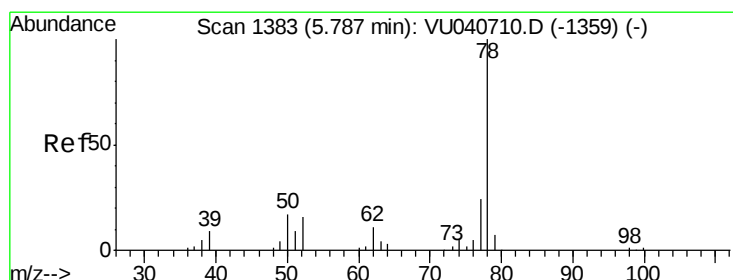
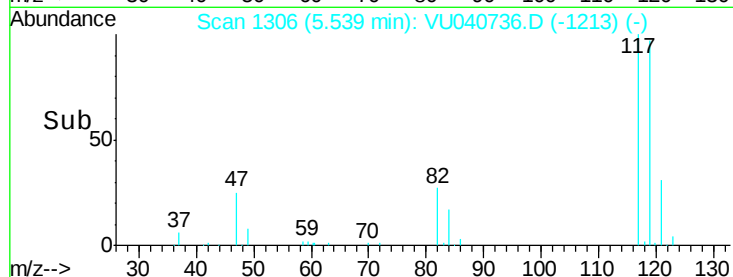
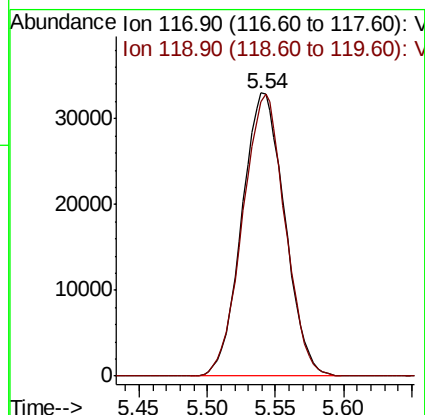
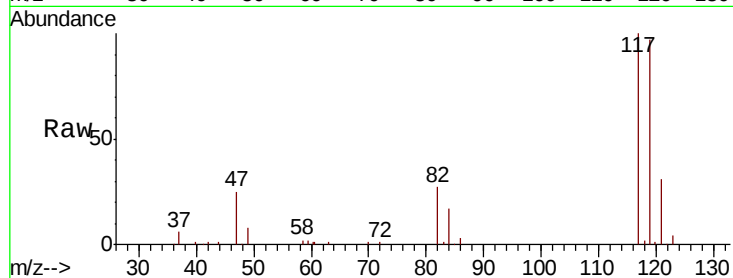
VSTD00512

Tot Ion:117 Resp: 72052

Ion Ratio Lower Upper

117 100

119 98.4 76.2 114.2



#33

Benzene

Concen: 5.018 ug/L

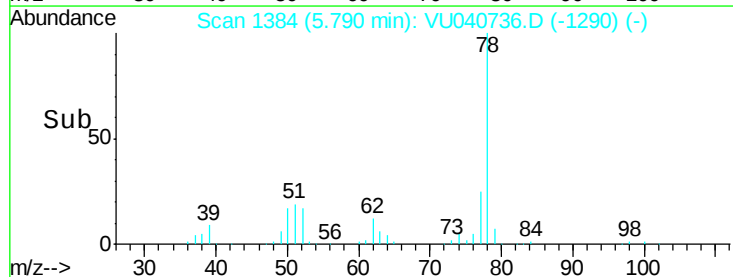
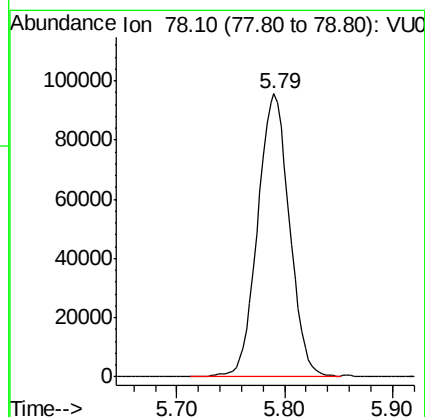
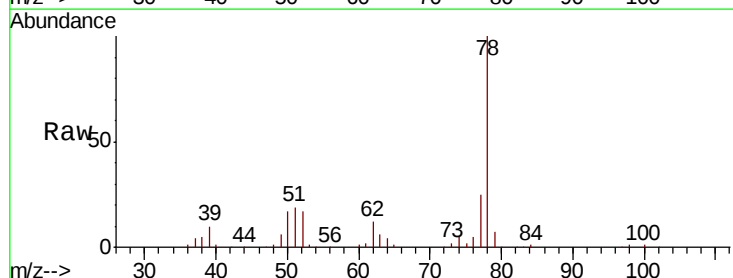
RT: 5.79 min Scan# 1384

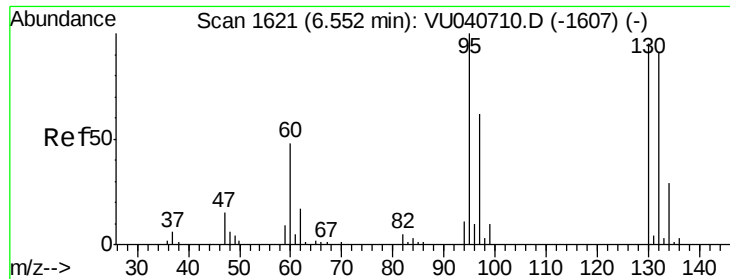
Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Tgt Ion: 78 Resp: 195663

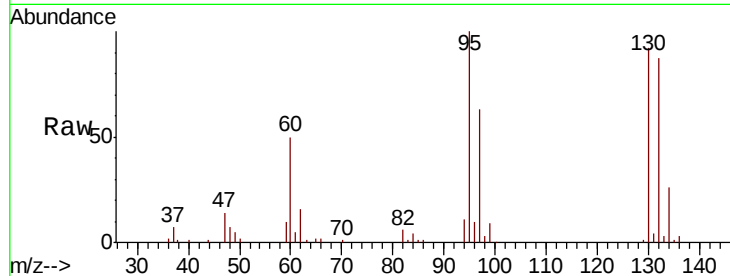




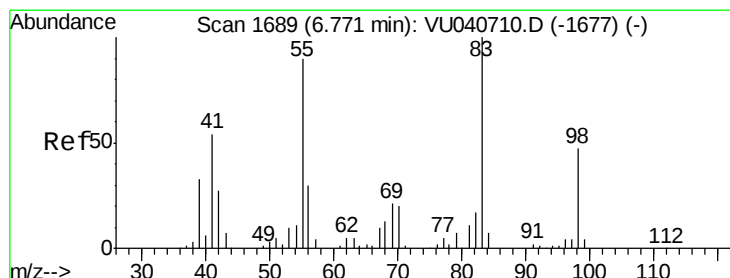
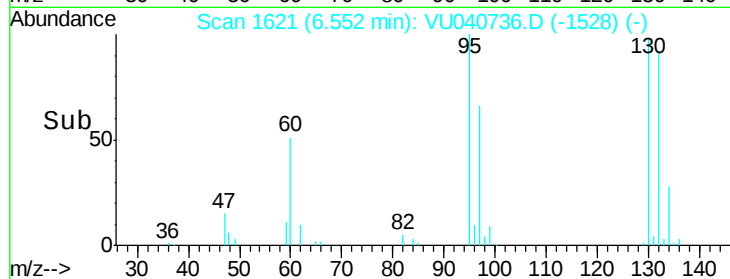
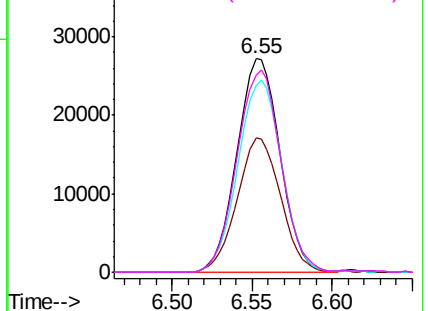
#34
 Trichloroethene
 Concen: 4.957 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion: 95 Resp: 50109
 Ion Ratio Lower Upper
 95 100
 97 62.8 45.5 84.5
 132 87.3 67.5 125.4
 130 92.4 69.9 129.9

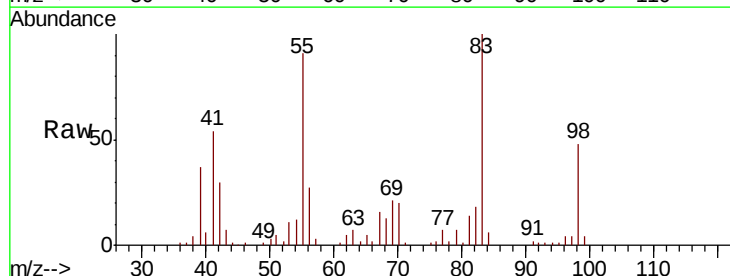


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

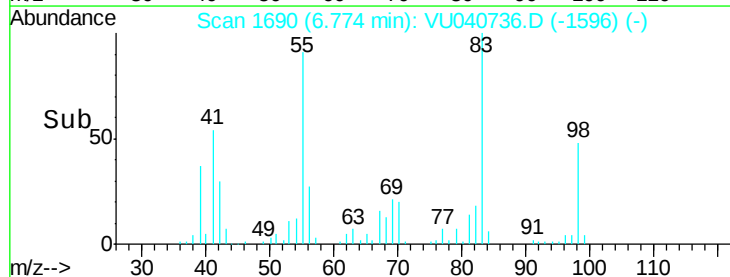
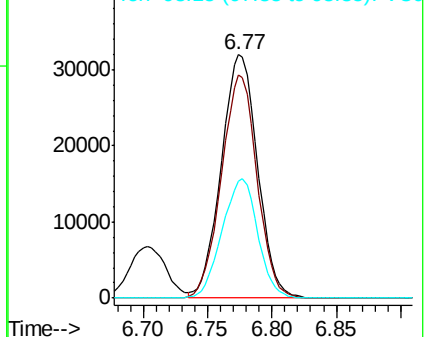


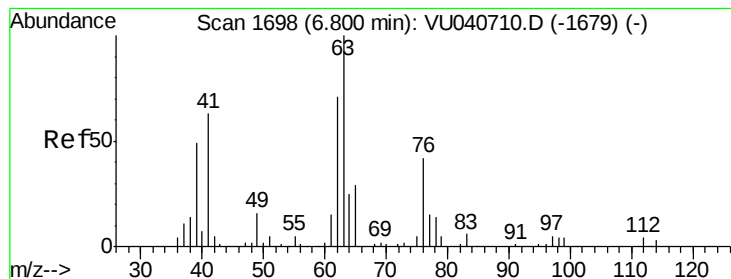
#35
 Methylcyclohexane
 Concen: 4.359 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Tgt Ion: 83 Resp: 62484
 Ion Ratio Lower Upper
 83 100
 55 90.0 70.7 106.1
 98 48.1 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: 5.163 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

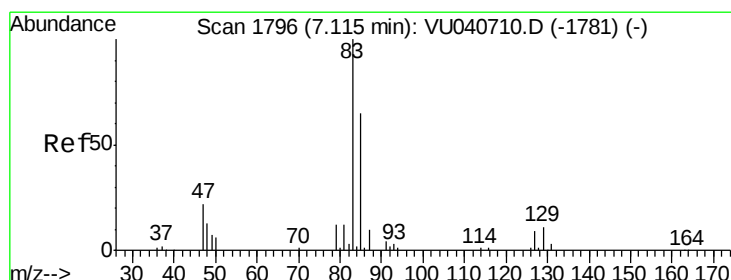
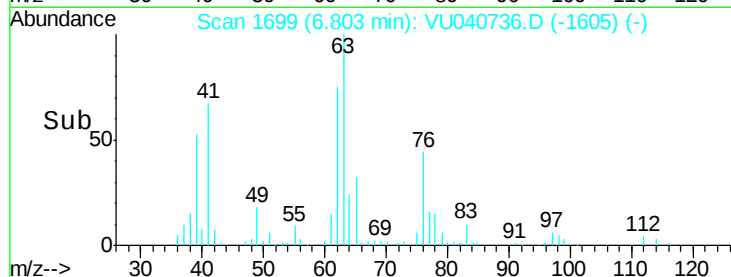
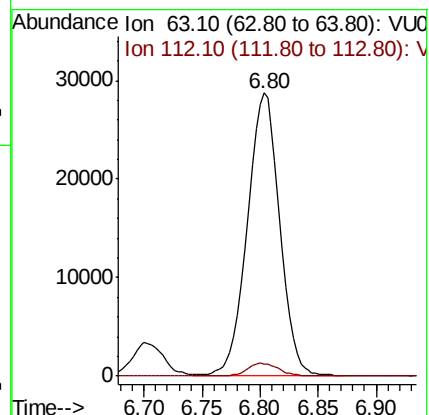
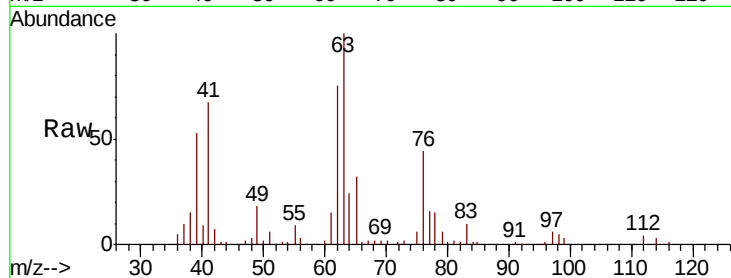
VSTD00512

Tot Ion: 63 Resp: 56095

Ion Ratio Lower Upper

63 100

112 4.3 3.5 5.3



#38

Bromodichloromethane

Concen: 5.275 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

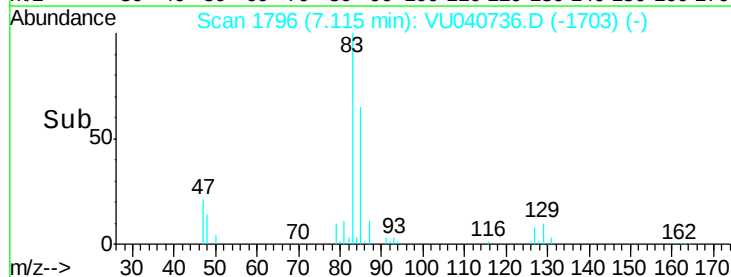
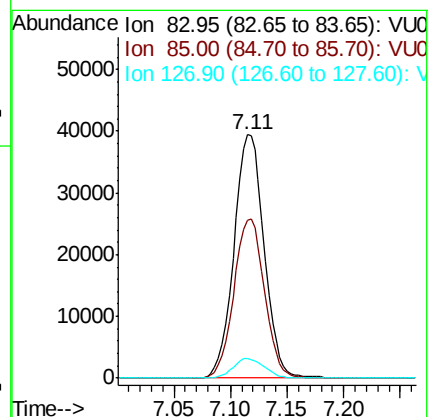
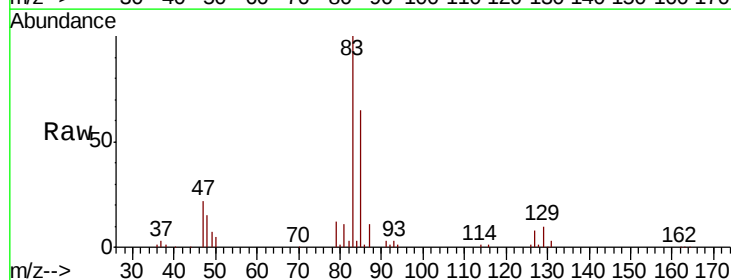
Tgt Ion: 83 Resp: 73256

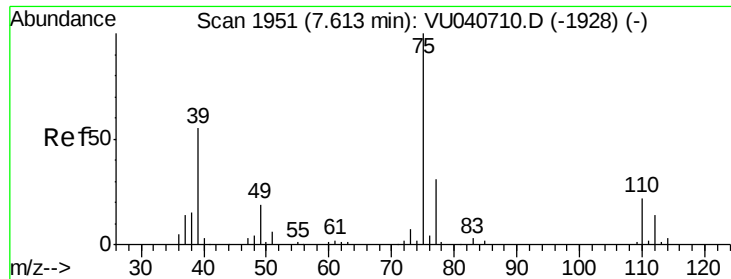
Ion Ratio Lower Upper

83 100

85 64.6 46.0 85.4

127 8.0 6.7 10.1

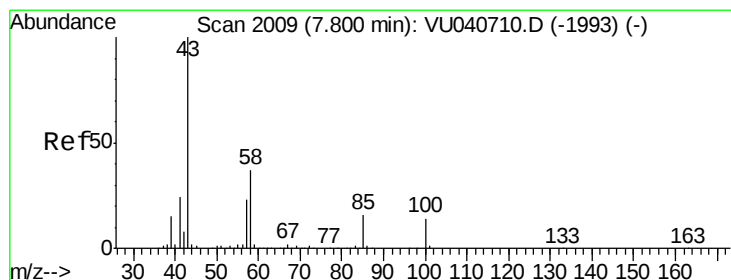
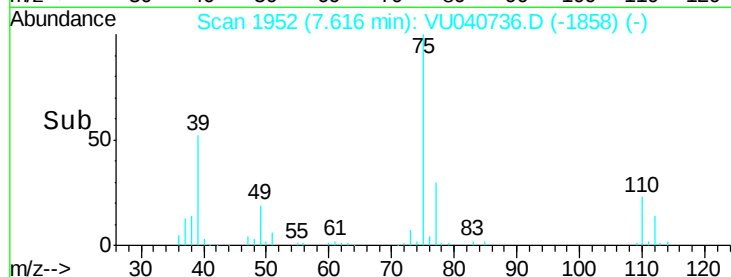
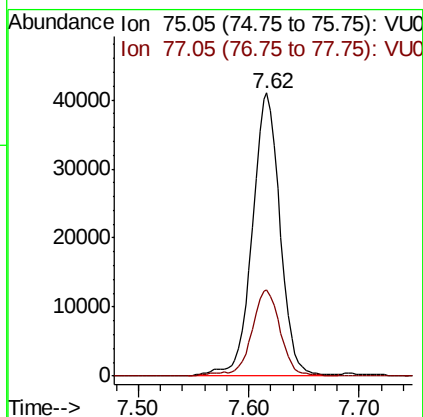
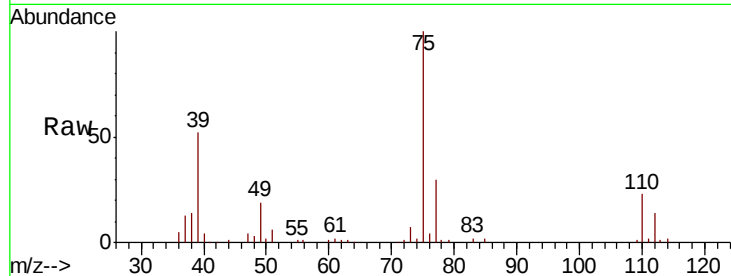




#39
 cis-1,3-Dichloropropene
 Concen: 4.825 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

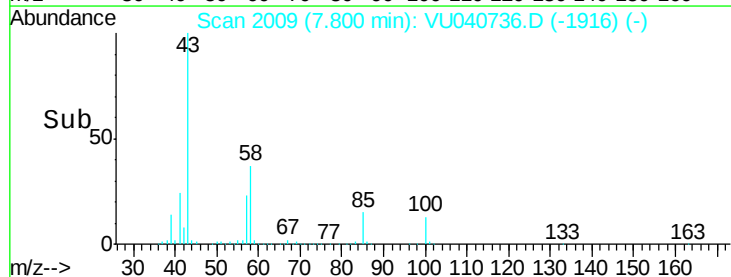
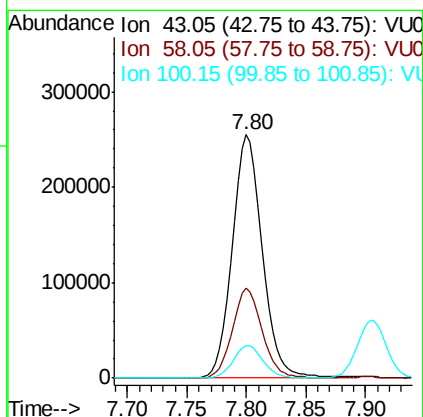
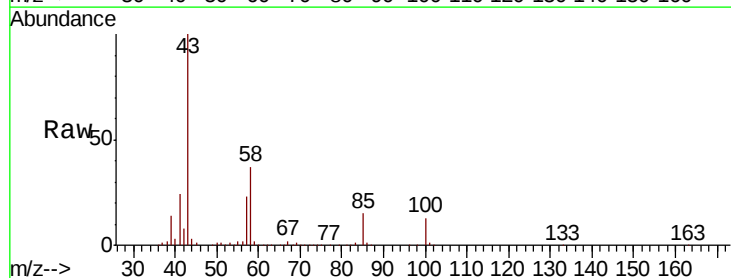
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

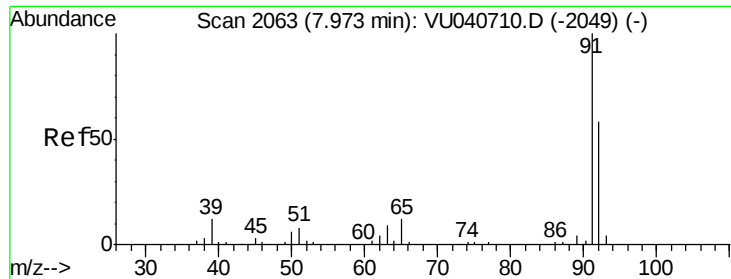
Tot Ion: 75 Resp: 71625
 Ion Ratio Lower Upper
 75 100
 77 30.3 20.5 38.1



#40
 4-Methyl-2-pentanone
 Concen: 51.447 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Tgt Ion: 43 Resp: 445638
 Ion Ratio Lower Upper
 43 100
 58 36.6 29.7 44.5
 100 13.4 10.7 16.1





#42

Toluene

Concen: 5.330 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

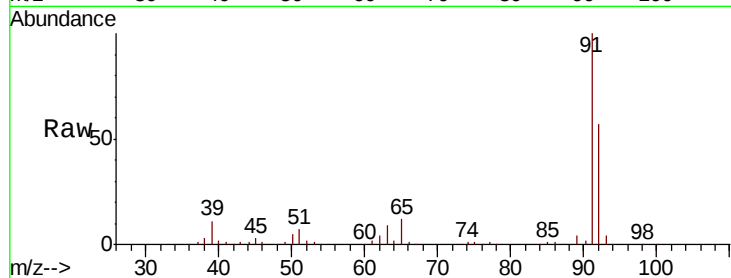
VSTD00512

Tot Ion: 91 Resp: 211782

Ion Ratio Lower Upper

91 100

92 57.1 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.98

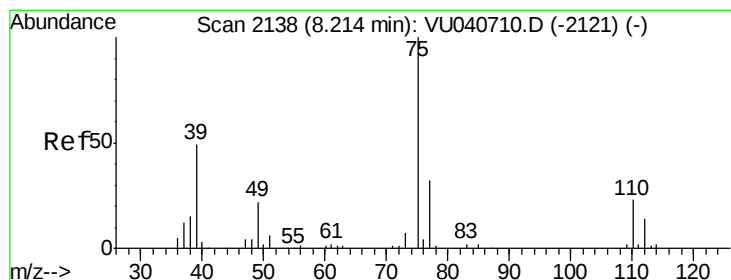
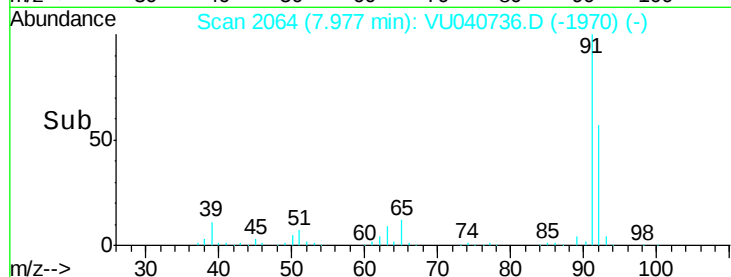
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.950 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040736.D

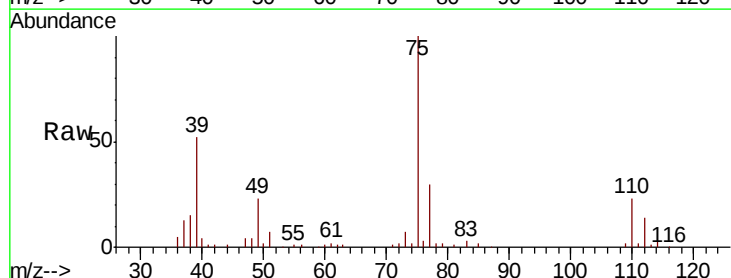
Acq: 15 Oct 2020 21:20

Tgt Ion: 75 Resp: 67646

Ion Ratio Lower Upper

75 100

77 30.0 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.21

40000

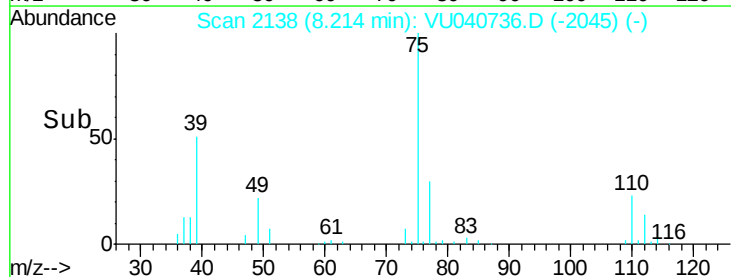
30000

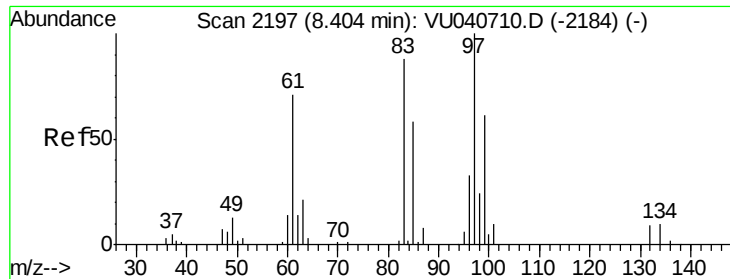
20000

10000

0

Time-->

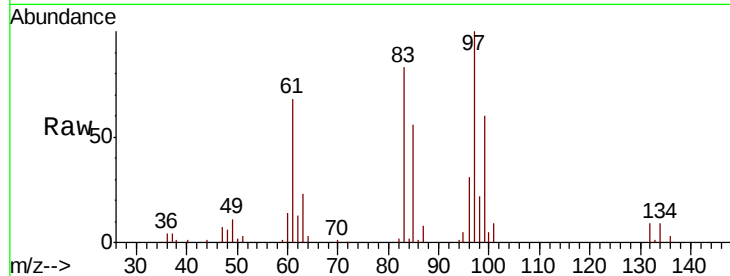




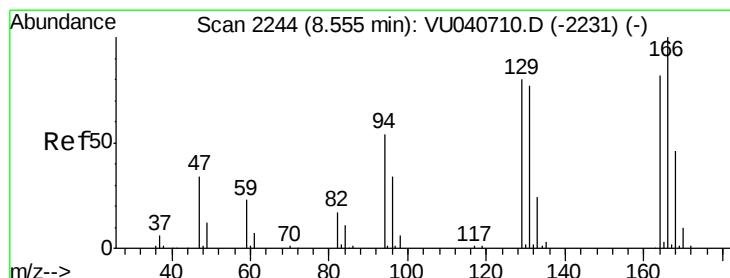
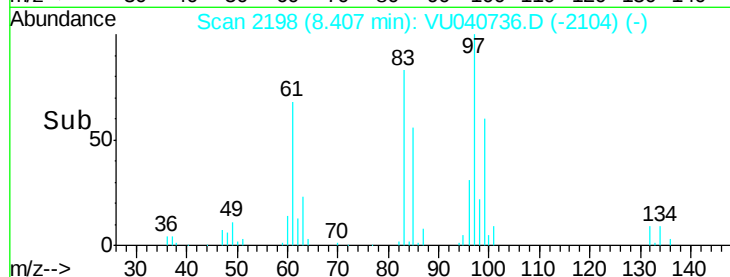
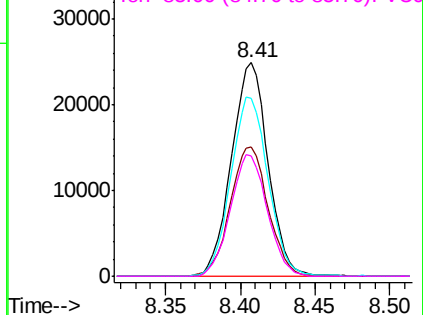
#45
1,1,2-Trichloroethane
Concen: 5.206 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:	97	Resp:	42363
Ion	Ratio	Lower	Upper
97	100		
99	60.4	44.0	81.6
83	83.1	62.9	116.9
85	56.4	40.3	74.8

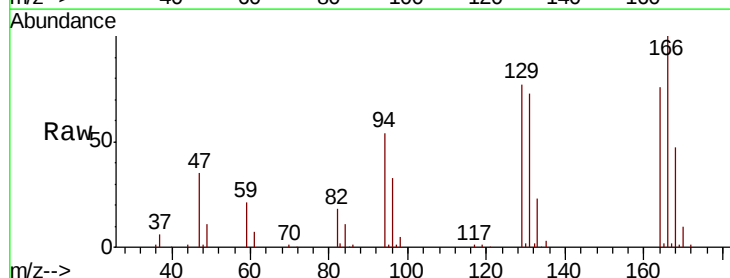


Abundance Ion 96.95 (96.65 to 97.65): VU040736.D (-2197) (-)
Ion 99.05 (98.75 to 99.75): VU040736.D (-2197) (-)
Ion 82.95 (82.65 to 83.65): VU040736.D (-2197) (-)
Ion 85.00 (84.70 to 85.70): VU040736.D (-2197) (-)

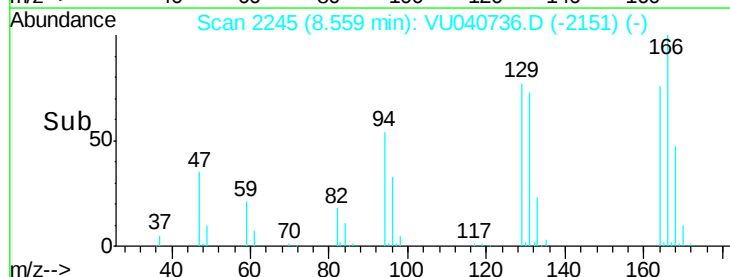
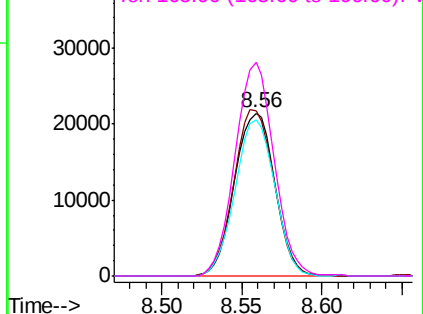


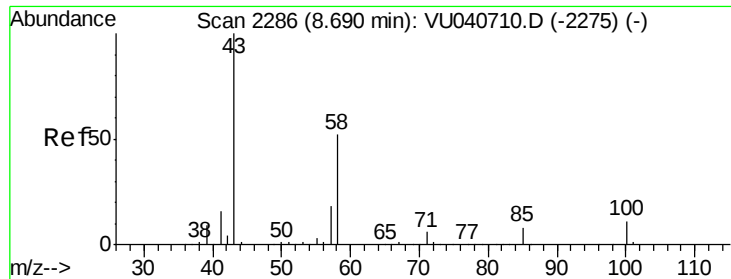
#47
Tetrachloroethene
Concen: 5.123 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Tgt Ion:	164	Resp:	36945
Ion	Ratio	Lower	Upper
164	100		
129	101.8	68.8	127.8
131	95.9	66.7	123.9
166	131.4	83.9	155.7



Abundance Ion 163.90 (163.60 to 164.60): VU040736.D (-2244) (-)
Ion 128.95 (128.65 to 129.65): VU040736.D (-2244) (-)
Ion 130.95 (130.65 to 131.65): VU040736.D (-2244) (-)
Ion 165.90 (165.60 to 166.60): VU040736.D (-2244) (-)

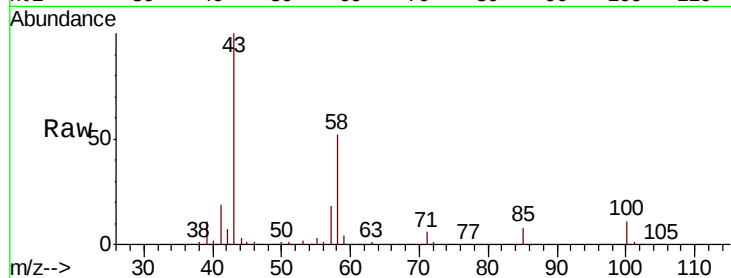




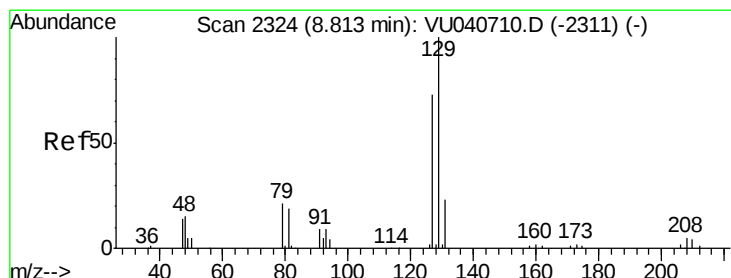
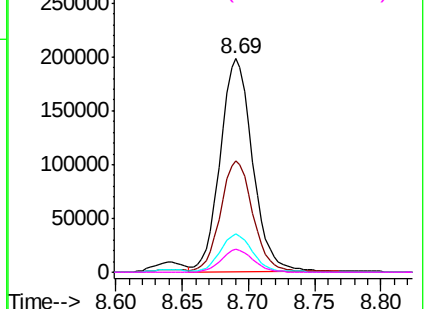
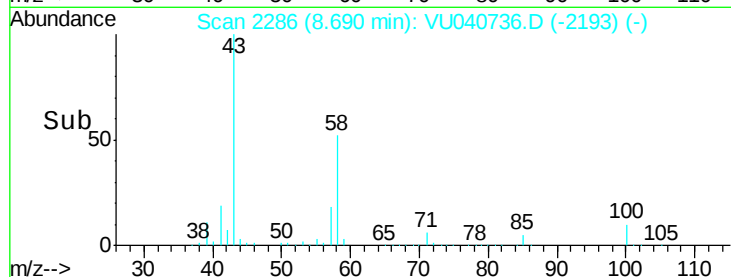
#48
2-Hexanone
Concen: 51.964 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:	43	Resp:	335117
Ion	Ratio	Lower	Upper
43	100		
58	52.9	41.0	61.6
57	17.9	14.4	21.6
100	10.8	8.6	13.0

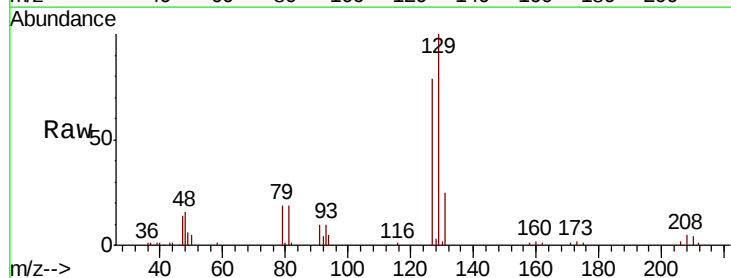


Abundance Ion 43.05 (42.75 to 43.75): VU040736.D (-2193) (-)

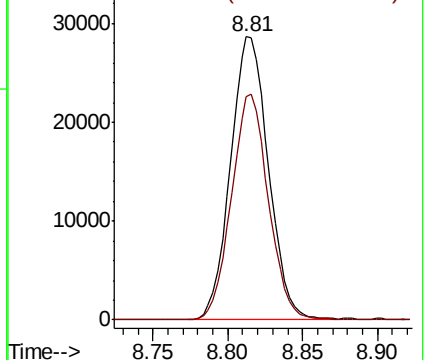
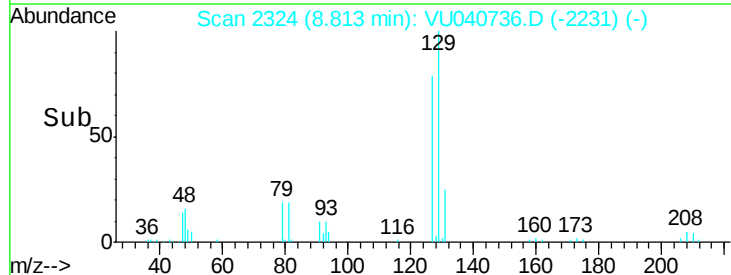


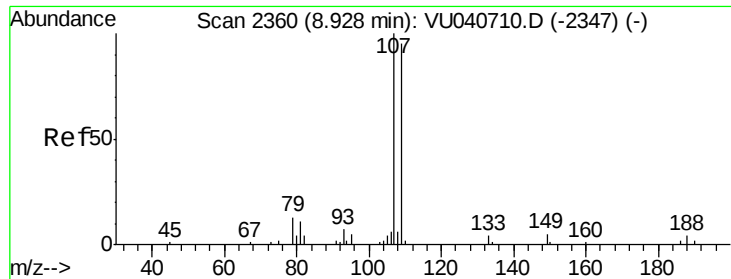
#49
Dibromochloromethane
Concen: 5.391 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Tgt Ion:	129	Resp:	50478
Ion	Ratio	Lower	Upper
129	100		
127	78.7	55.8	103.6



Abundance Ion 128.95 (128.65 to 129.65): VU040736.D (-2231) (-)

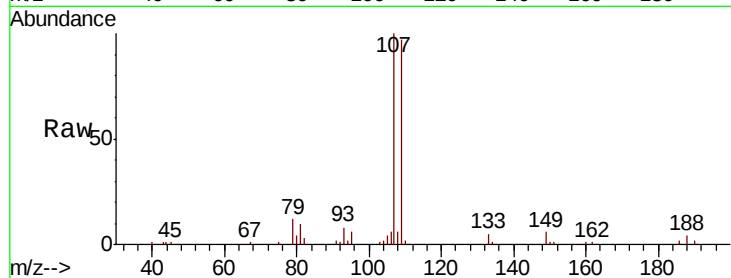




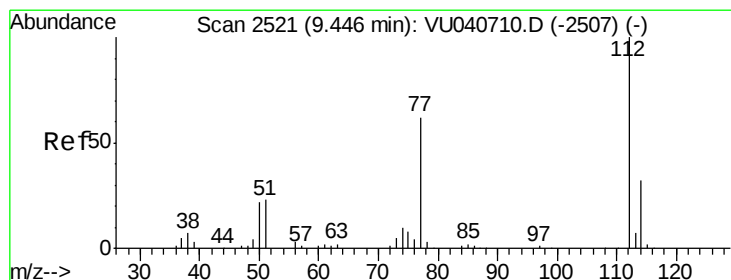
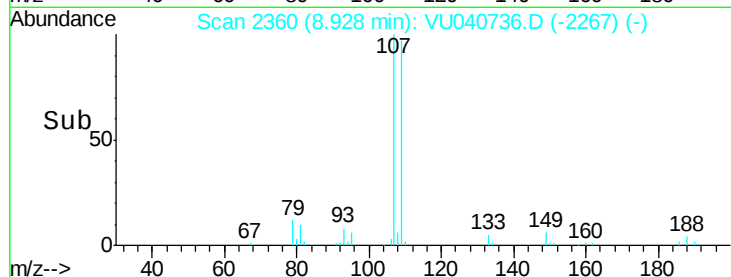
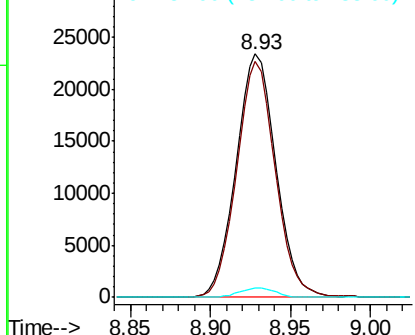
#50
 1,2-Dibromoethane
 Concen: 5.126 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:107 Resp: 39563
 Ion Ratio Lower Upper
 107 100
 109 96.9 65.7 121.9
 188 3.6 3.0 4.4

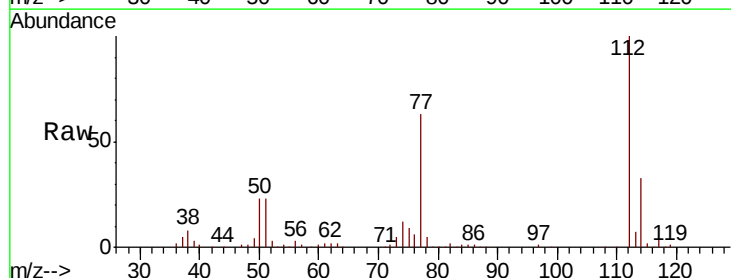


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

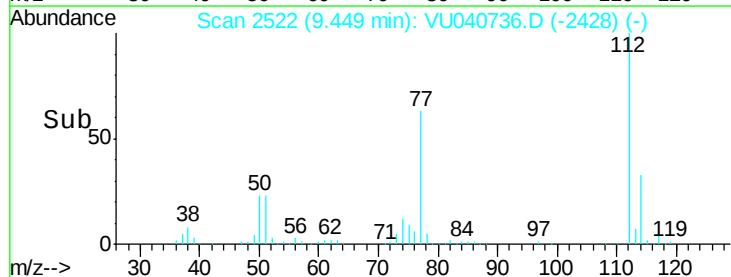
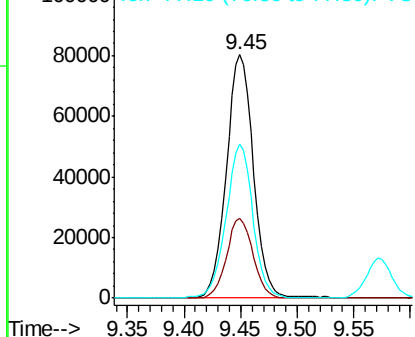


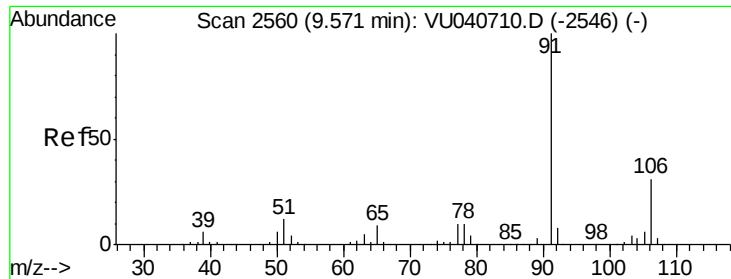
#51
 Chlorobenzene
 Concen: 5.085 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Tgt Ion:112 Resp: 133098
 Ion Ratio Lower Upper
 112 100
 114 32.8 23.1 42.9
 77 63.4 50.3 75.5



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.988 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampled :

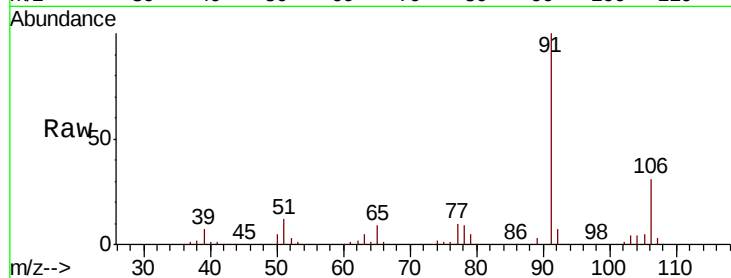
VSTD00512

Tot Ion: 91 Resp: 214510

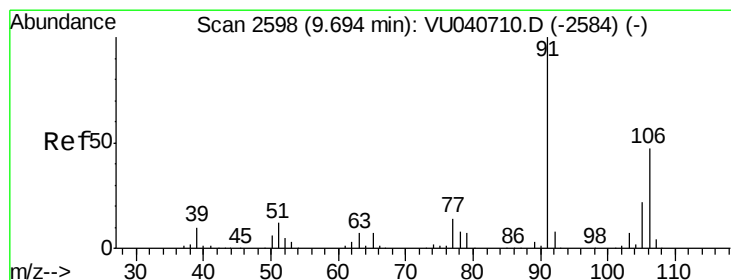
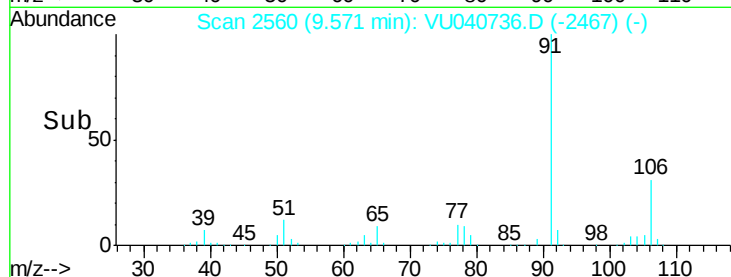
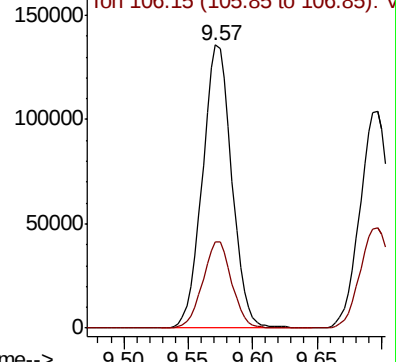
Ion Ratio Lower Upper

91 100

106 30.6 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU040736.D (-2467) (-)



#53

m,p-Xylene

Concen: 5.220 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040736.D

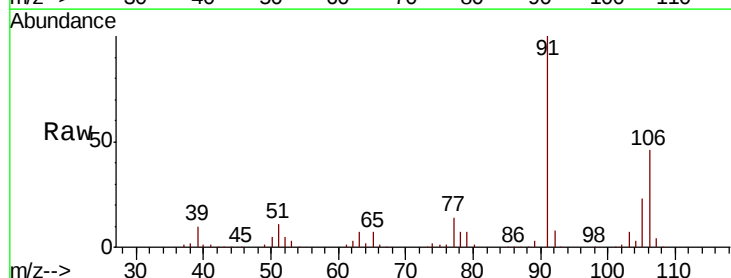
Acq: 15 Oct 2020 21:20

Tgt Ion: 106 Resp: 81817

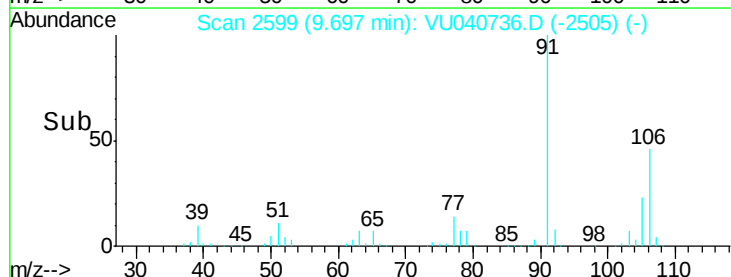
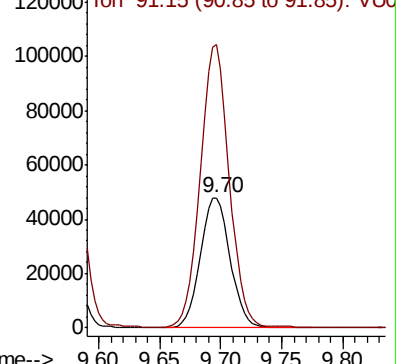
Ion Ratio Lower Upper

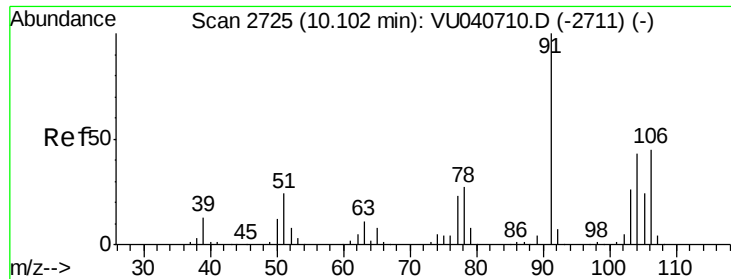
106 100

91 217.3 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040736.D (-2505) (-)

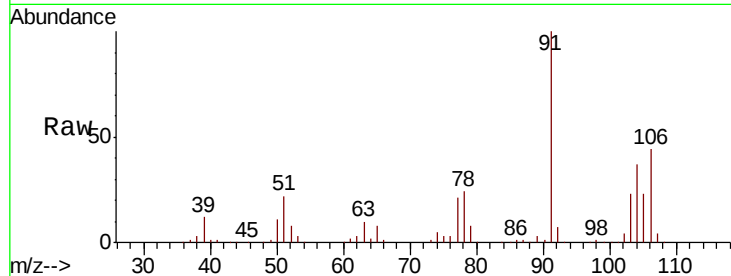




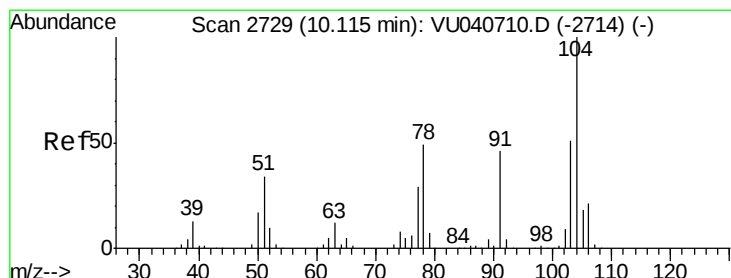
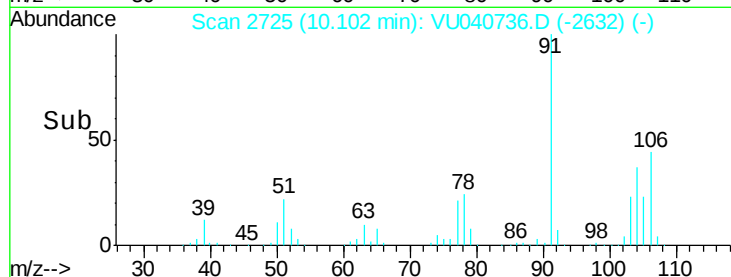
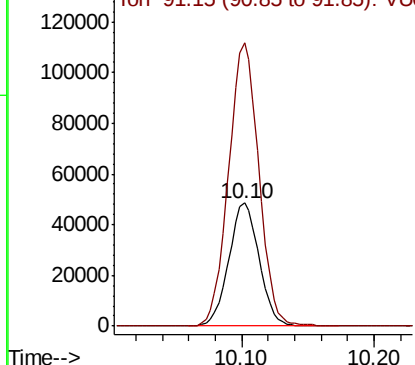
#54
o-Xylene
Concen: 5.112 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:106 Resp: 77051
Ion Ratio Lower Upper
106 100
91 229.8 160.2 297.4

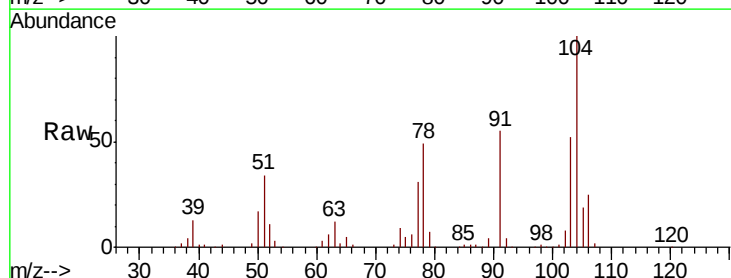


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

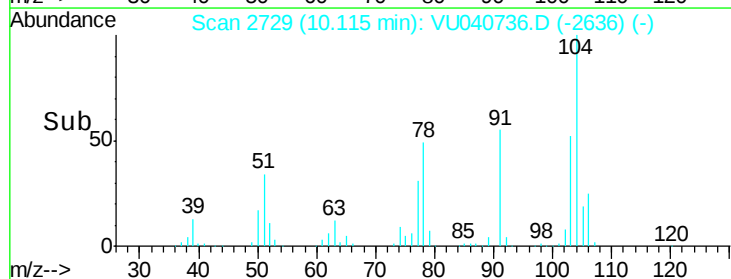
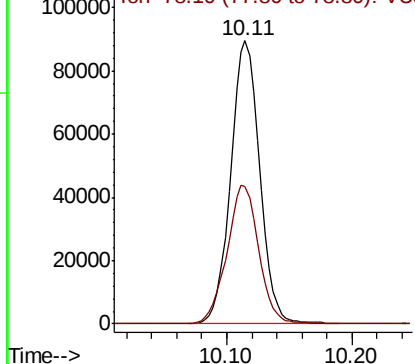


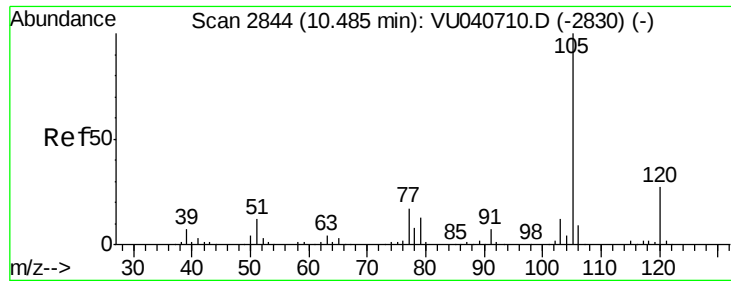
#55
Styrene
Concen: 5.490 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040736.D
Acq: 15 Oct 2020 21:20

Tgt Ion:104 Resp: 143714
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: 5.226 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

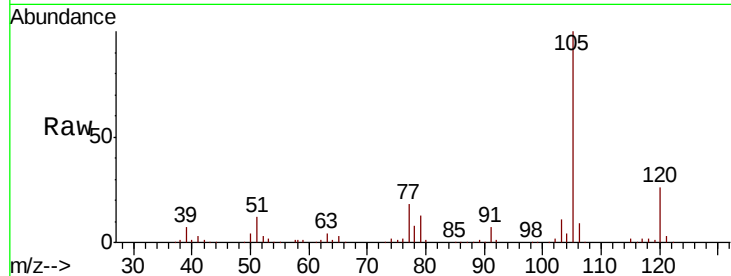
Tot Ion:105 Resp: 212076

Ion Ratio Lower Upper

105 100

120 26.3 20.6 30.8

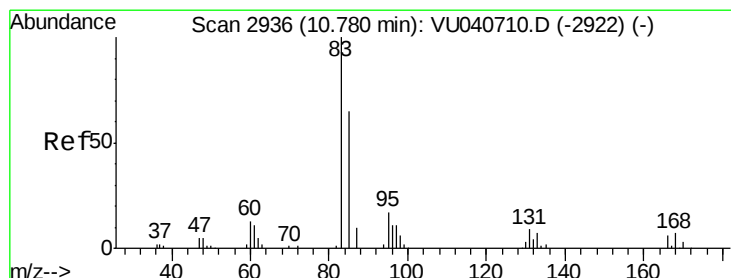
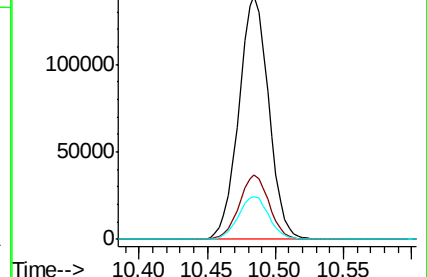
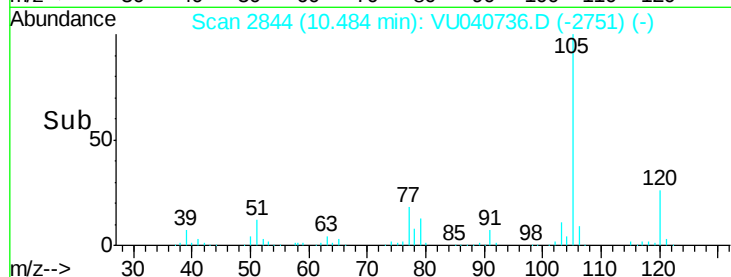
77 17.9 13.8 20.6



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: 5.235 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

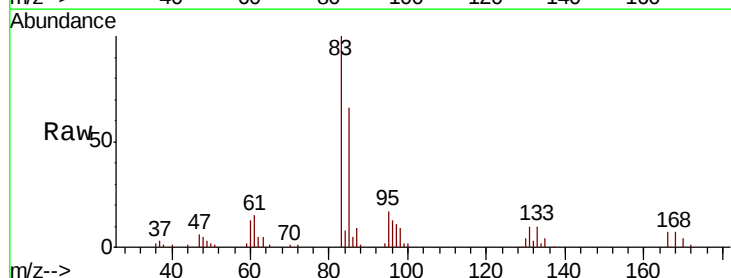
Tgt Ion: 83 Resp: 55928

Ion Ratio Lower Upper

83 100

85 66.4 45.6 84.6

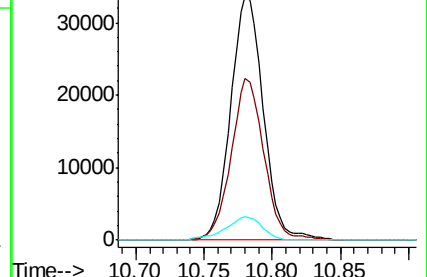
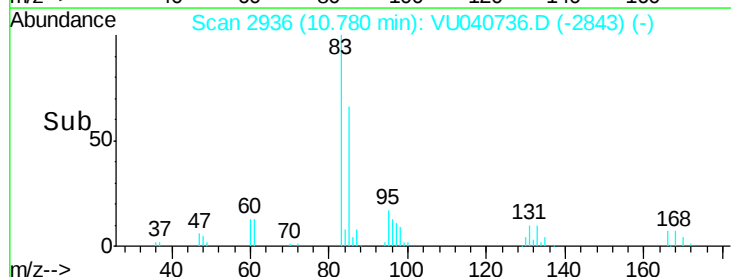
131 9.7 7.1 10.7

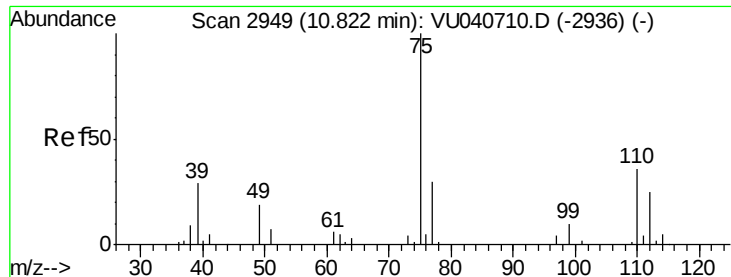


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.253 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

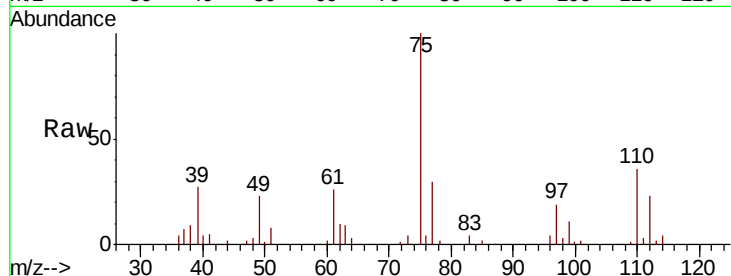
VSTD00512

Tot Ion: 75 Resp: 41921

Ion Ratio Lower Upper

75 100

77 31.2 26.4 39.6

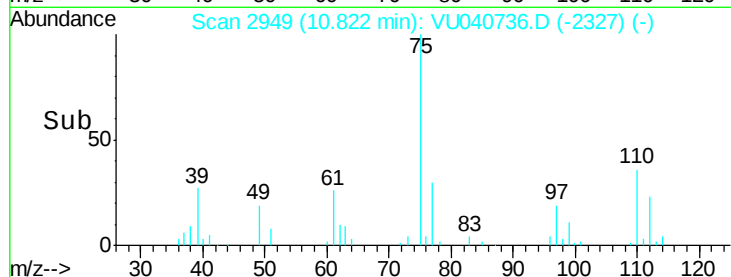


Abundance Ion 75.00 (74.70 to 75.70): VU040736.D (-2327) (-)

Ion 77.00 (76.70 to 77.70): VU040736.D (-2327) (-)

10.82

Time-->



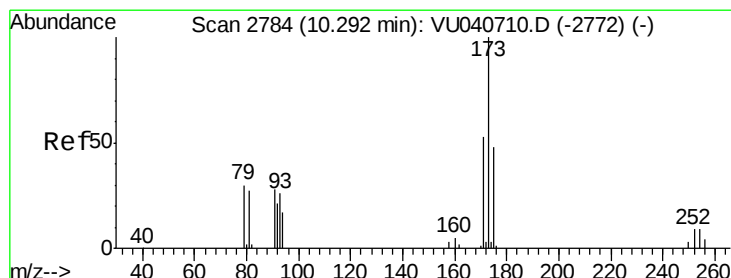
Abundance

Ion 75.00 (74.70 to 75.70): VU040736.D (-2327) (-)

Ion 77.00 (76.70 to 77.70): VU040736.D (-2327) (-)

10.82

Time-->



#61

Bromoform

Concen: 4.838 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

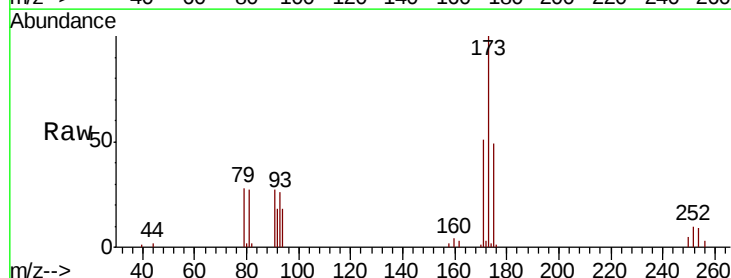
Tgt Ion: 173 Resp: 27891

Ion Ratio Lower Upper

173 100

175 49.9 37.4 56.0

254 9.4 7.4 11.2



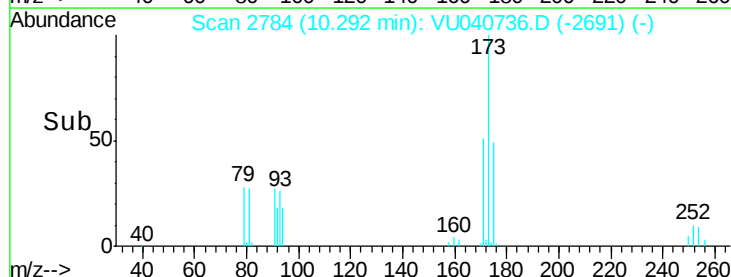
Abundance Ion 172.90 (172.60 to 173.60): VU040736.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VU040736.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VU040736.D (-2691) (-)

10.29

Time-->



Abundance

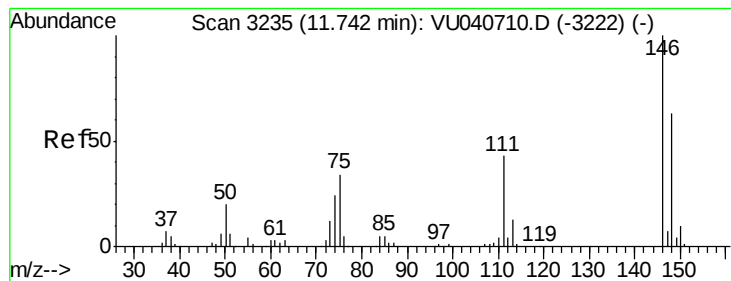
Ion 172.90 (172.60 to 173.60): VU040736.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VU040736.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VU040736.D (-2691) (-)

10.29

Time-->



#62

1,3-Dichlorobenzene

Concen: 5.090 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

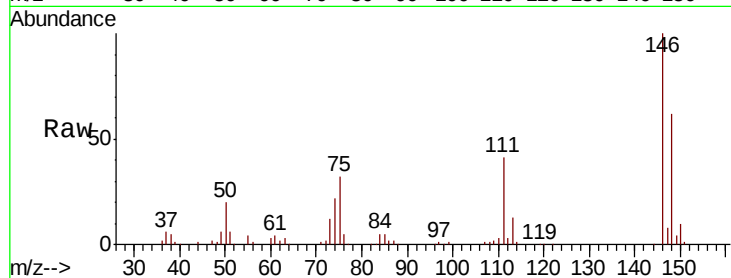
Tot Ion:146 Resp: 112038

Ion Ratio Lower Upper

146 100

111 41.3 28.8 53.6

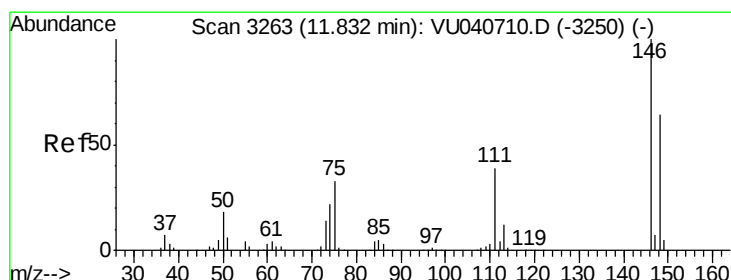
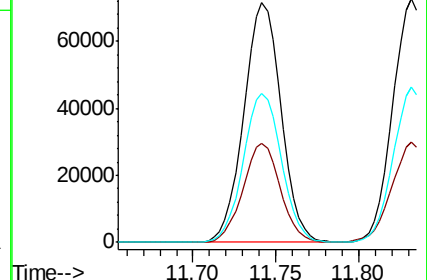
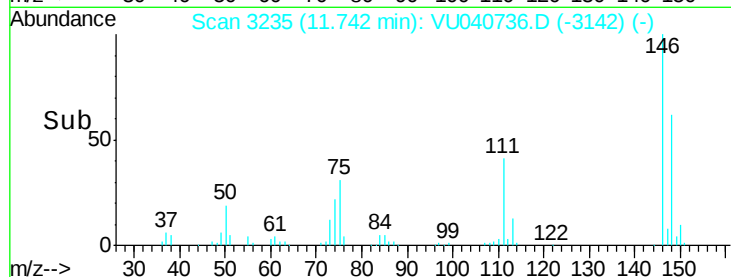
148 61.9 44.4 82.4



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: 4.987 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

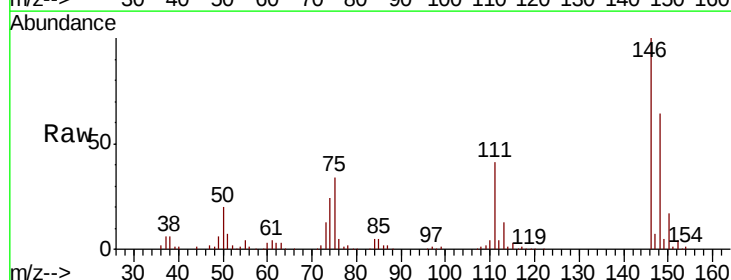
Tgt Ion:146 Resp: 113195

Ion Ratio Lower Upper

146 100

111 41.1 28.4 52.8

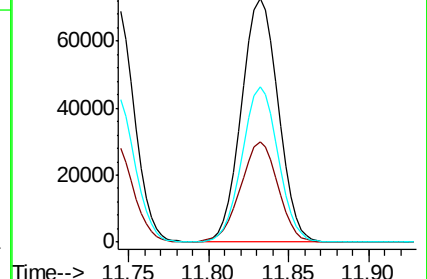
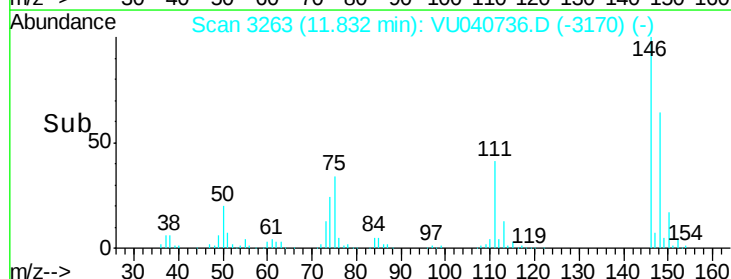
148 63.6 44.0 81.6

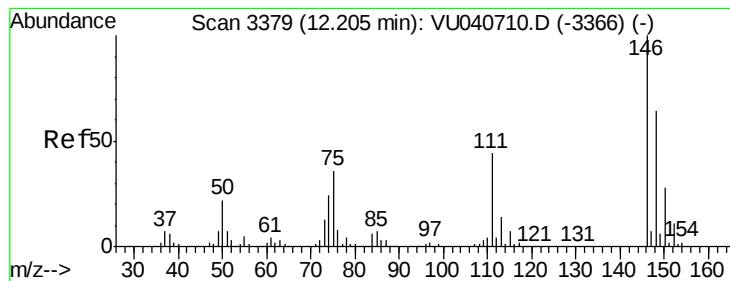


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.000 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

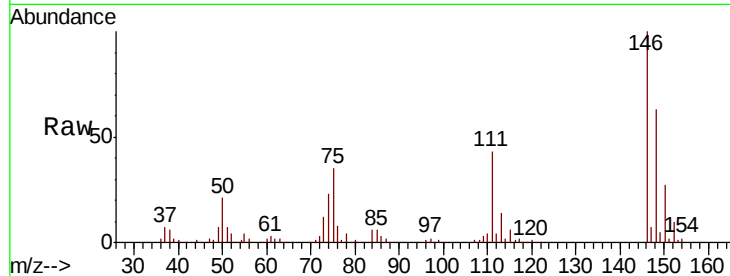
Tot Ion:146 Resp: 107597

Ion Ratio Lower Upper

146 100

111 43.2 34.4 51.6

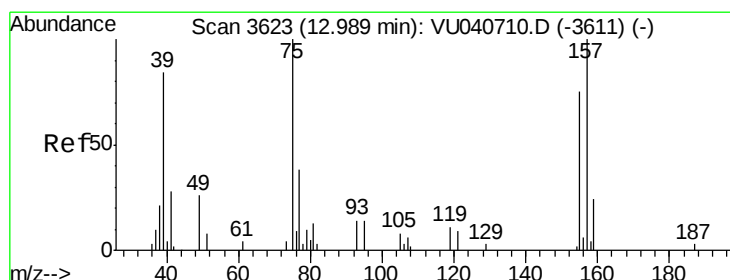
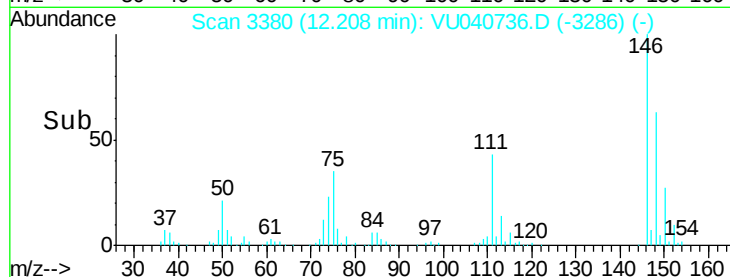
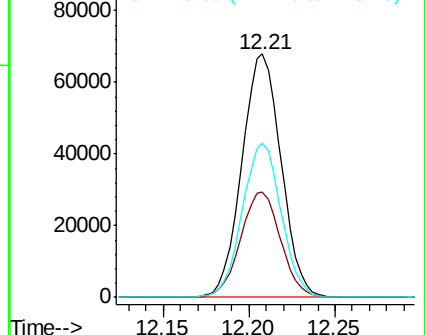
148 63.5 50.0 75.0



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: 4.907 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

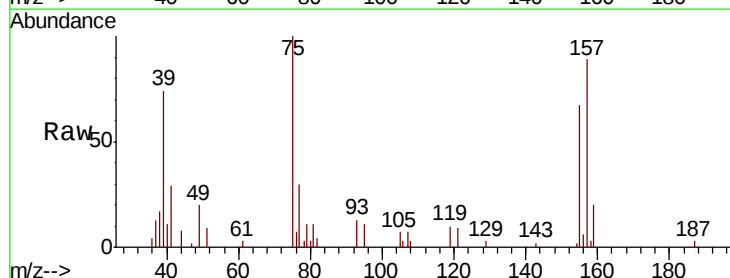
Tgt Ion: 75 Resp: 9247

Ion Ratio Lower Upper

75 100

155 67.3 53.8 80.6

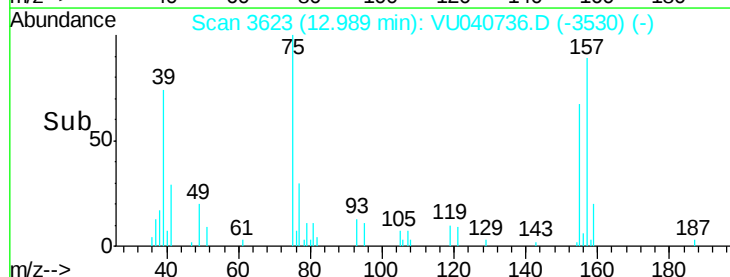
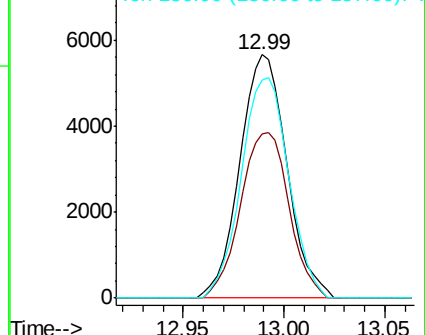
157 89.5 74.6 112.0

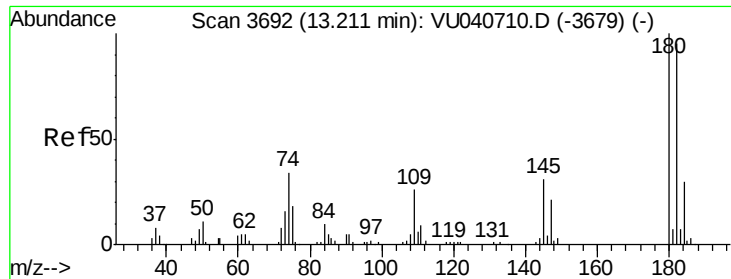


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

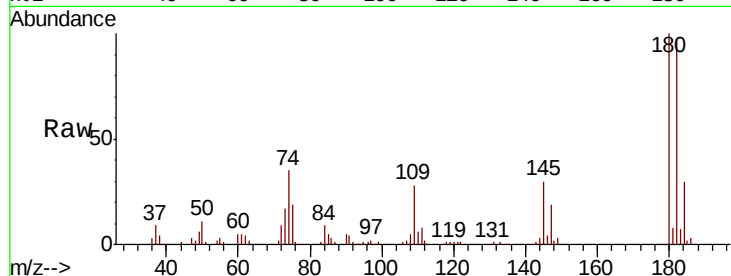




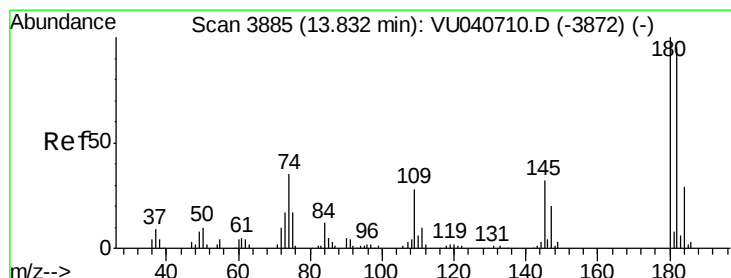
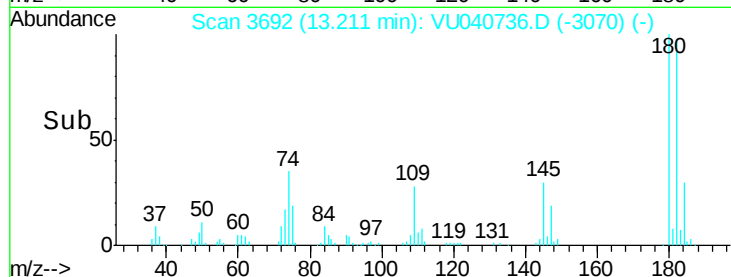
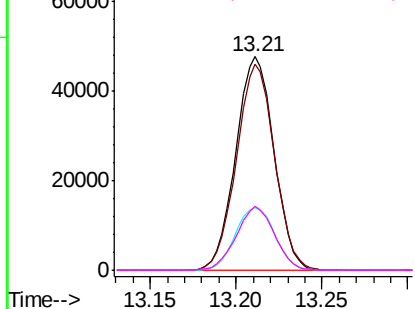
#67
 1,3,5-Trichlorobenzene
 Concen: 4.718 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:180 Resp: 73694
 Ion Ratio Lower Upper
 180 100
 182 95.7 77.0 115.4
 184 30.5 24.5 36.7
 145 29.7 25.9 38.9

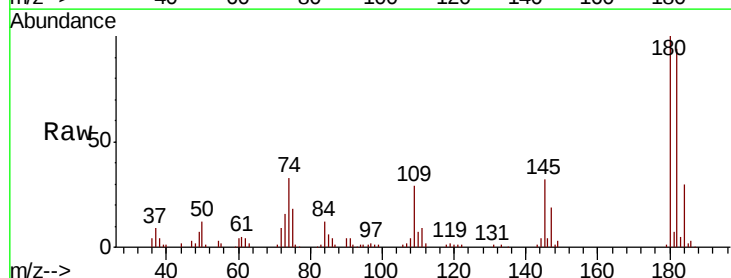


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

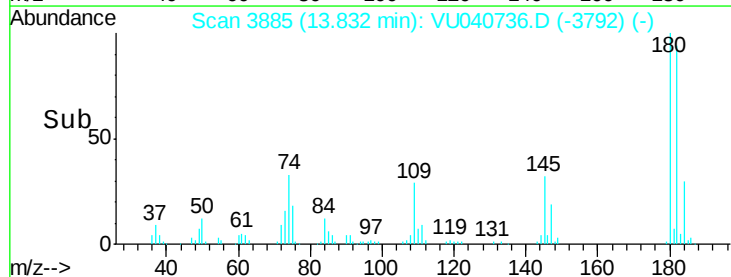
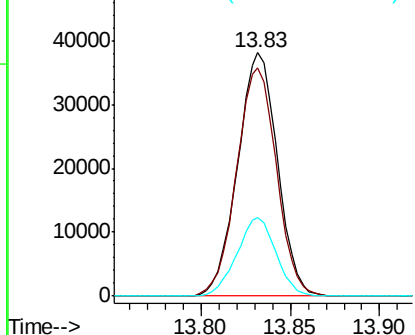


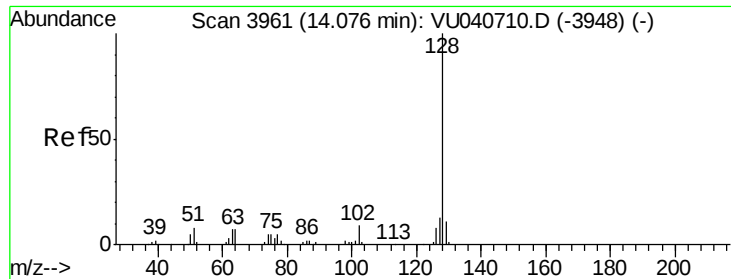
#68
 1,2,4-trichlorobenzene
 Concen: 4.885 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040736.D
 Acq: 15 Oct 2020 21:20

Tgt Ion:180 Resp: 58948
 Ion Ratio Lower Upper
 180 100
 182 94.3 78.8 118.2
 145 31.7 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: 4.499 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

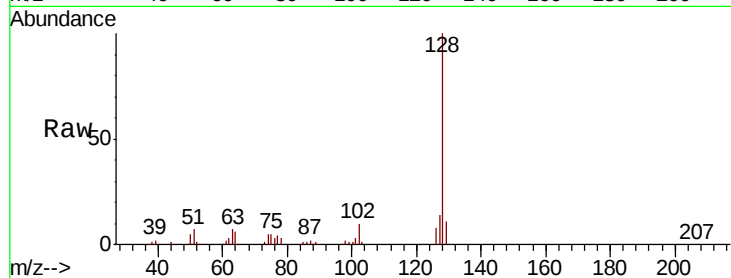
Tot Ion:128 Resp: 88819

Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.4

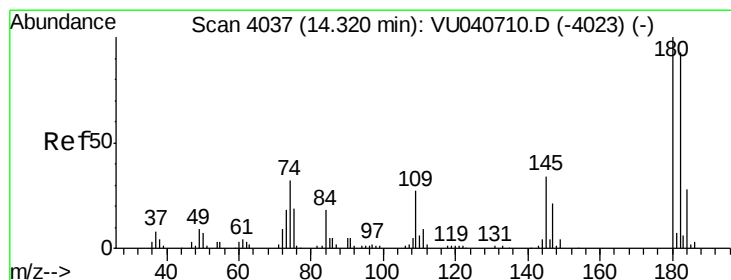
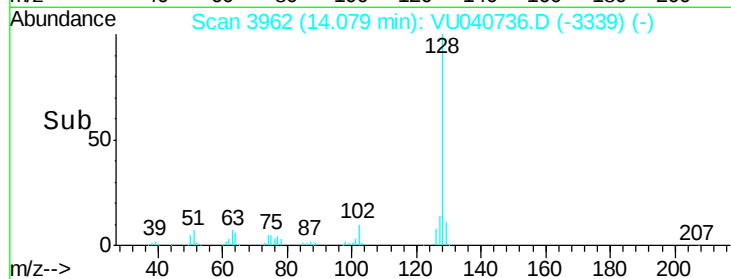
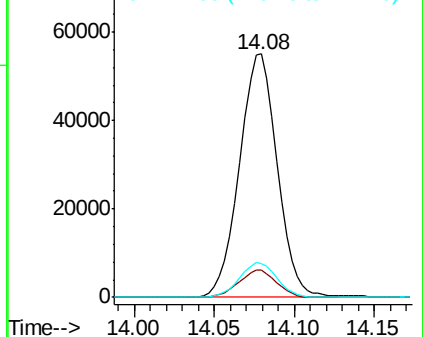
127 14.1 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.048 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040736.D

Acq: 15 Oct 2020 21:20

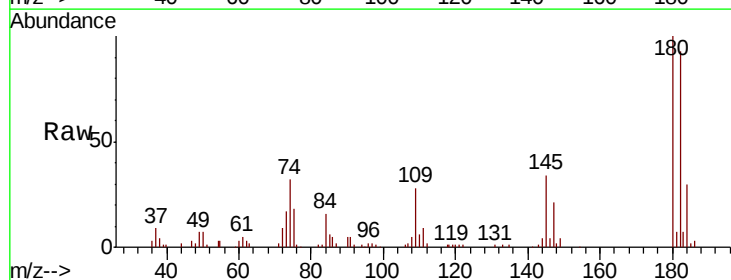
Tgt Ion:180 Resp: 56567

Ion Ratio Lower Upper

180 100

182 95.6 75.8 113.8

145 35.2 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

