

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101420\
 Data File : VU040708.D
 Acq On : 14 Oct 2020 18:53
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Quant Time: Oct 15 05:33:10 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	120438	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	123778	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	65888	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	48360	4.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.00%
7) Chloroethane-d5	1.92	69	41128	5.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.80%
11) 1,1-Dichloroethene-d2	2.58	63	98493	5.05	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.00%
20) 2-Butanone-d5	4.65	46	181977	56.98	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.96%
24) Chloroform-d	5.08	84	100834	5.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	115.20%
26) 1,2-Dichloroethane-d4	5.72	65	58987	5.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.60%
32) Benzene-d6	5.74	84	182894	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.60%
36) 1,2-Dichloropropane-d6	6.70	67	60396	5.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.00%
41) Toluene-d8	7.91	98	169198	5.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.20%
43) trans-1,3-Dichloropropene-	8.19	79	25294	5.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.80%
46) 2-Hexanone-d5	8.64	63	134657	55.66	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.32%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	55173	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	63702	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	55482	5.084	ug/L	98
3) Chloromethane	1.53	50	49269	4.828	ug/L	98
5) Vinyl chloride	1.61	62	52344	4.871	ug/L	98
6) Bromomethane	1.87	94	26708	4.577	ug/L	94
8) Chloroethane	1.94	64	32645	4.771	ug/L	99
9) Trichlorofluoromethane	2.15	101	79463	5.149	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	50735	5.064	ug/L	99
12) 1,1-Dichloroethene	2.59	96	43625	5.077	ug/L	97
13) Acetone	2.66	43	126435	51.076	ug/L	99
14) Carbon disulfide	2.81	76	103376	4.297	ug/L	99
15) Methyl Acetate	2.97	43	28591	5.058	ug/L	99
16) Methylene chloride	3.06	84	58163	5.272	ug/L	97
17) Methyl tert-butyl Ether	3.38	73	123812	5.095	ug/L	100
18) trans-1,2-Dichloroethene	3.37	96	43768	4.866	ug/L	98
19) 1,1-Dichloroethane	3.89	63	98189	5.278	ug/L	99
21) 2-Butanone	4.73	43	204738	53.050	ug/L	98
22) cis-1,2-Dichloroethene	4.69	96	52286	5.390	ug/L	92

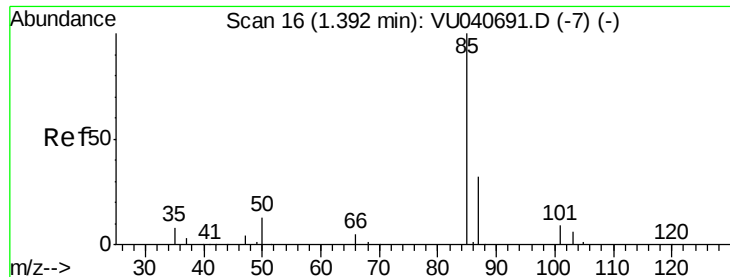
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101420\
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 QLast Update : Thu Oct 15 05:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	25402	5.271	ug/L	98
25) Chloroform	5.11	83	103996	5.475	ug/L	98
27) 1,2-Dichloroethane	5.81	62	71501	5.319	ug/L	100
29) 1,1,1-Trichloroethane	5.33	97	86374	5.193	ug/L	99
30) Cyclohexane	5.40	56	68817	4.490	ug/L	96
31) Carbon tetrachloride	5.54	117	73169	5.140	ug/L	100
33) Benzene	5.79	78	204123	5.133	ug/L	100
34) Trichloroethene	6.56	95	51698	5.015	ug/L	97
35) Methylcyclohexane	6.77	83	68470	4.684	ug/L	99
37) 1,2-Dichloropropane	6.80	63	58698	5.298	ug/L	100
38) Bromodichloromethane	7.11	83	73683	5.202	ug/L	95
39) cis-1,3-Dichloropropene	7.62	75	75243	4.970	ug/L	95
40) 4-Methyl-2-pentanone	7.80	43	462579	52.367	ug/L	99
42) Toluene	7.98	91	214599	5.296	ug/L	100
44) trans-1,3-Dichloropropene	8.22	75	73500	5.274	ug/L	97
45) 1,1,2-Trichloroethane	8.41	97	43984	5.300	ug/L	98
47) Tetrachloroethene	8.56	164	37621	5.116	ug/L	94
48) 2-Hexanone	8.69	43	352275	53.564	ug/L	100
49) Dibromochloromethane	8.82	129	50359	5.274	ug/L	99
50) 1,2-Dibromoethane	8.93	107	40240	5.112	ug/L	99
51) Chlorobenzene	9.45	112	135511	5.077	ug/L	99
52) Ethylbenzene	9.57	91	222594	5.076	ug/L	98
53) m,p-Xylene	9.69	106	85645	5.358	ug/L	96
54) o-Xylene	10.10	106	82241	5.350	ug/L	99
55) Styrene	10.11	104	149540	5.602	ug/L	98
56) Isopropylbenzene	10.48	105	220347	5.325	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	56636	5.198	ug/L	97
59) 1,2,3-Trichloropropane	10.82	75	42352	5.204	ug/L	99
61) Bromoform	10.29	173	28960	5.127	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	113521	5.264	ug/L	96
63) 1,4-Dichlorobenzene	11.83	146	116000	5.217	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	109755	5.206	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	9557	5.177	ug/L	92
67) 1,3,5-Trichlorobenzene	13.21	180	77400	5.058	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	61882	5.234	ug/L	95
69) Naphthalene	14.08	128	91195	4.715	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	56901	5.183	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.084 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

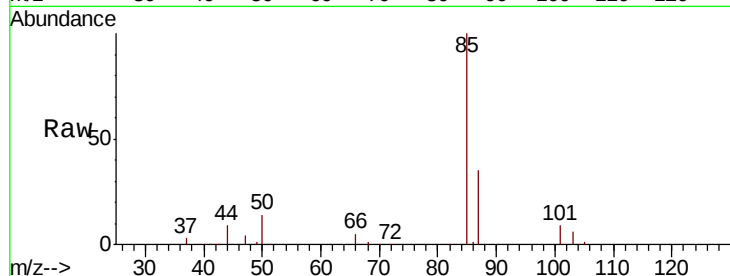
VSTD00510

Tot Ion: 85 Resp: 55482

Ion Ratio Lower Upper

85 100

87 34.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU040691.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040691.D (-7) (-)

1.39

60000

50000

40000

30000

20000

10000

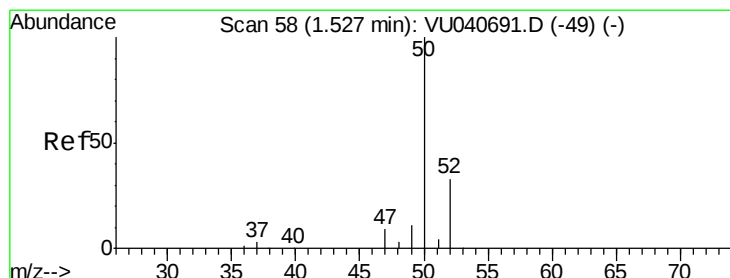
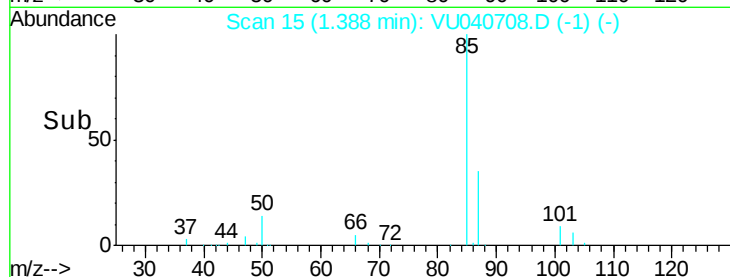
0

1.35

1.40

1.45

Time-->



#3

Chloromethane

Concen: 4.828 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040708.D

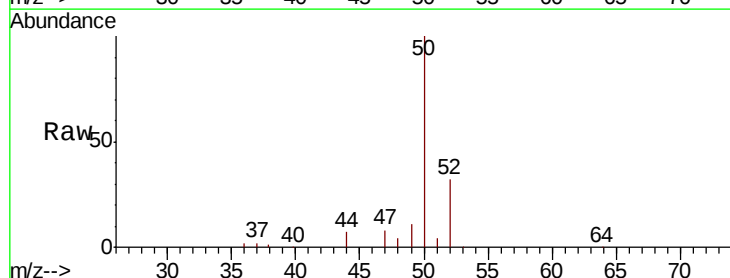
Acq: 14 Oct 2020 18:53

Tgt Ion: 50 Resp: 49269

Ion Ratio Lower Upper

50 100

52 32.4 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU040691.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040691.D (-49) (-)

1.53

50000

40000

30000

20000

10000

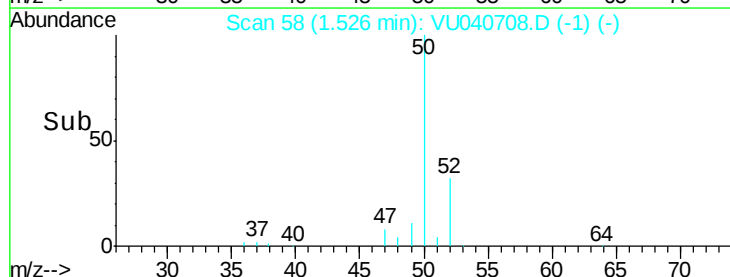
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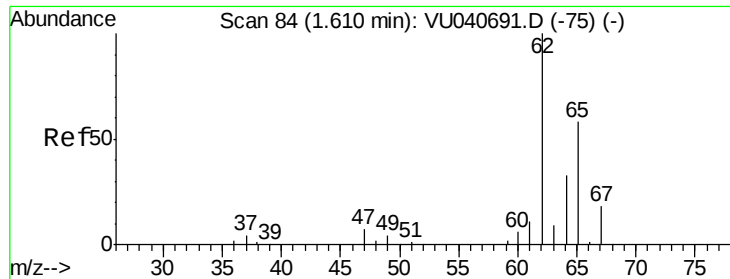
1.50

1.55

1.60

Time-->





#5

Vinyl chloride

Concen: 4.871 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampled :

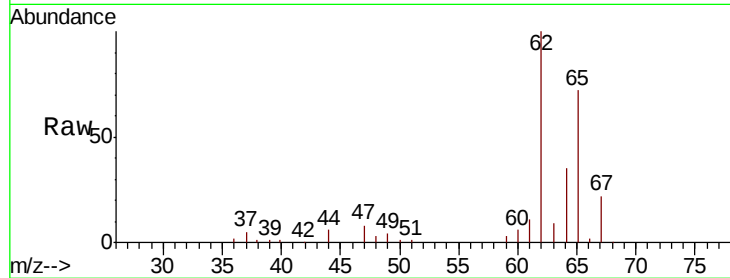
VSTD00510

Tot Ion: 62 Resp: 52344

Ion Ratio Lower Upper

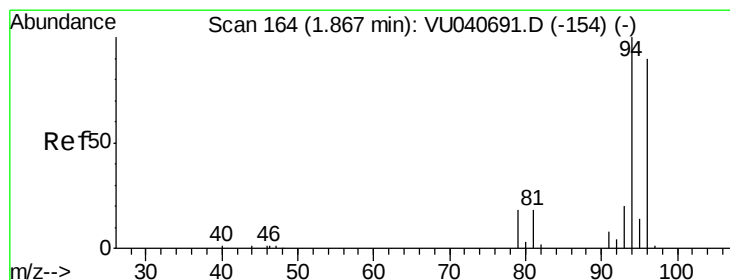
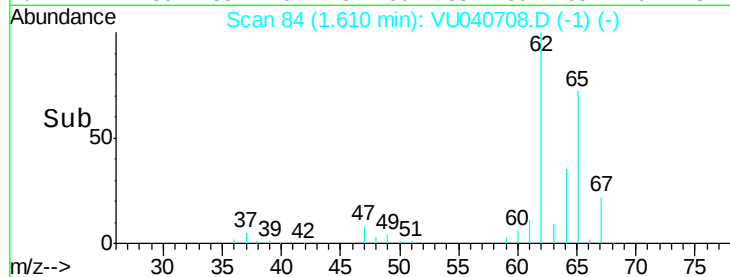
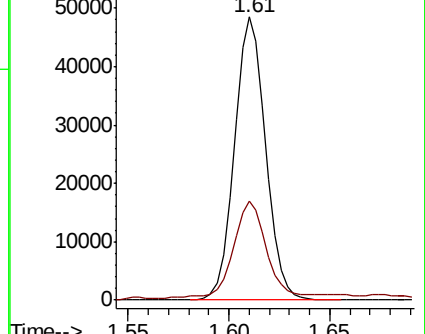
62 100

64 34.8 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: 4.577 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040708.D

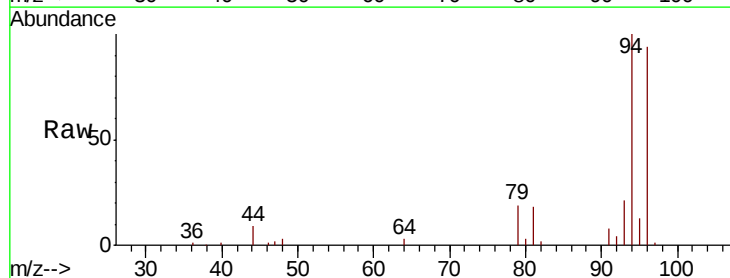
Acq: 14 Oct 2020 18:53

Tgt Ion: 94 Resp: 26708

Ion Ratio Lower Upper

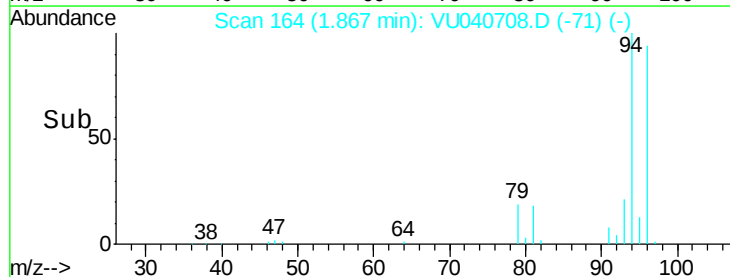
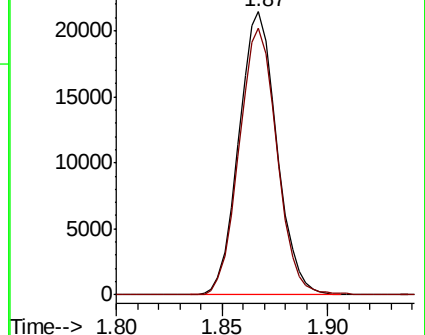
94 100

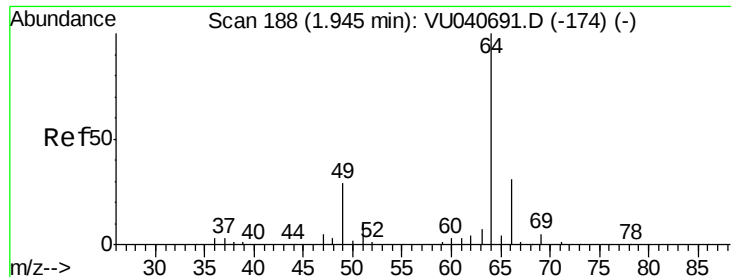
96 94.1 62.1 115.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.771 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

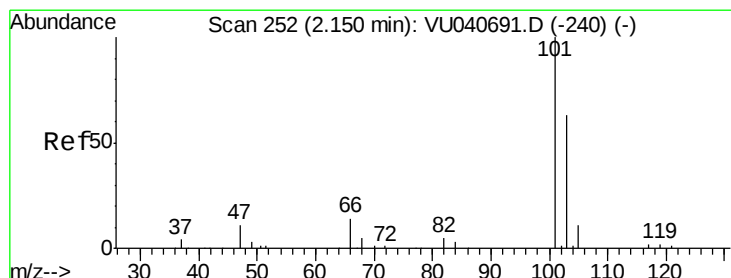
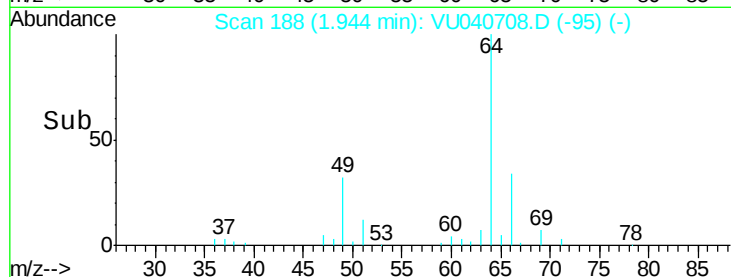
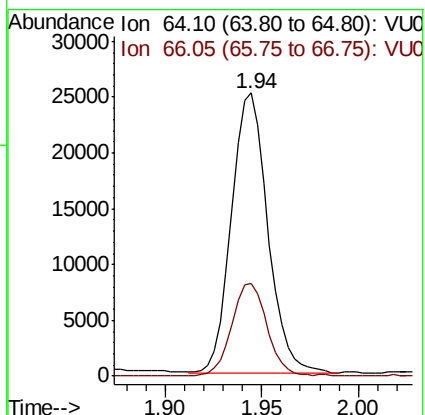
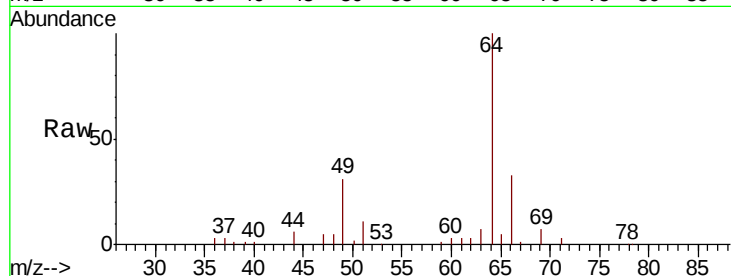
VSTD00510

Tot Ion: 64 Resp: 32645

Ion Ratio Lower Upper

64 100

66 32.6 23.3 43.3



#9

Trichlorofluoromethane

Concen: 5.149 ug/L

RT: 2.15 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU040708.D

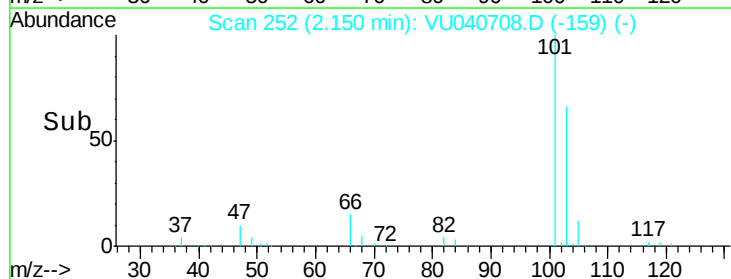
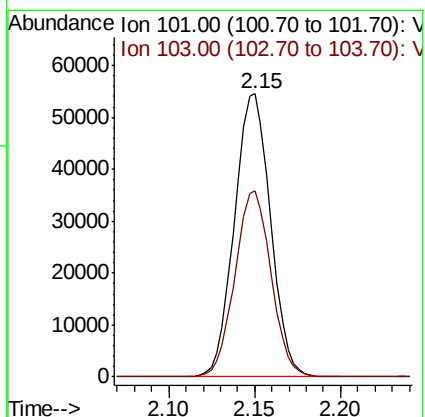
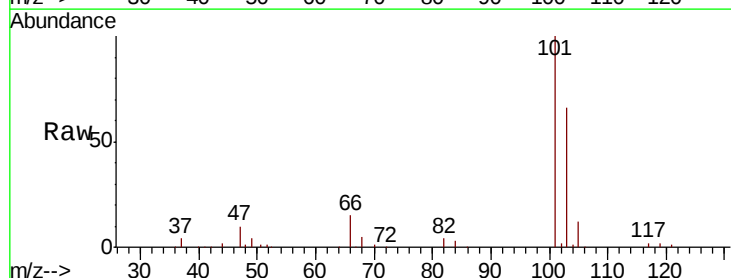
Acq: 14 Oct 2020 18:53

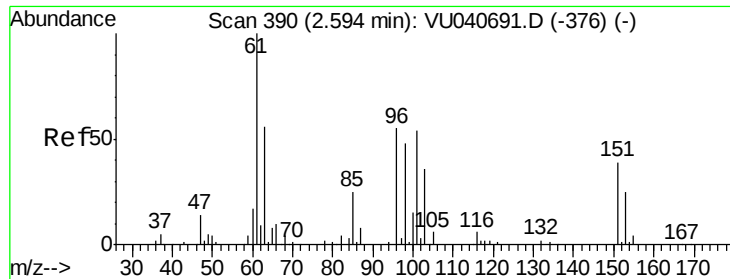
Tgt Ion:101 Resp: 79463

Ion Ratio Lower Upper

101 100

103 65.8 52.2 78.4





#10

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

Concen: 5.064 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

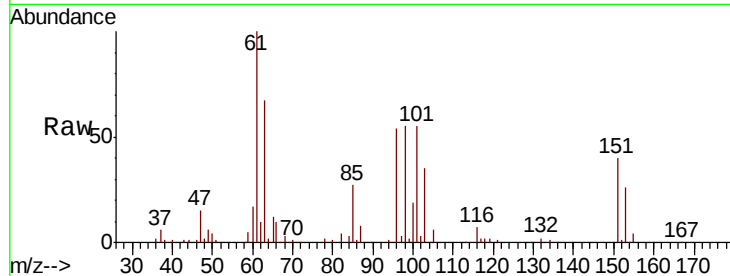
Tot Ion:101 Resp: 50735

Ion Ratio Lower Upper

101 100

85 46.3 36.7 55.1

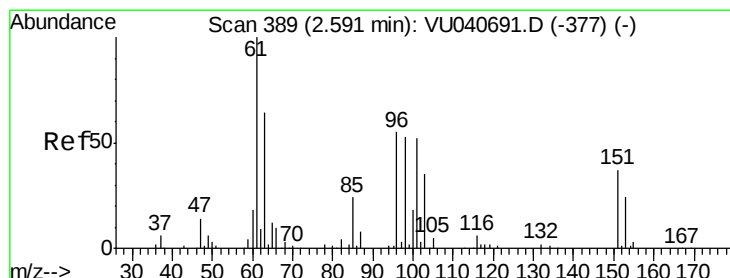
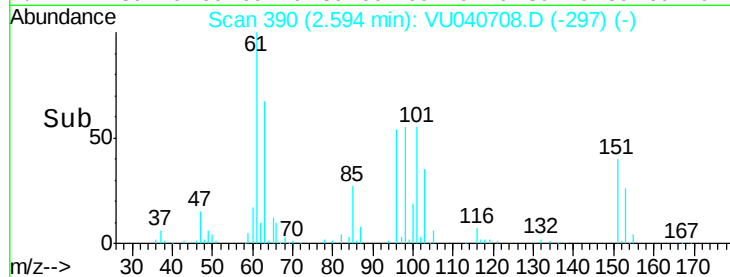
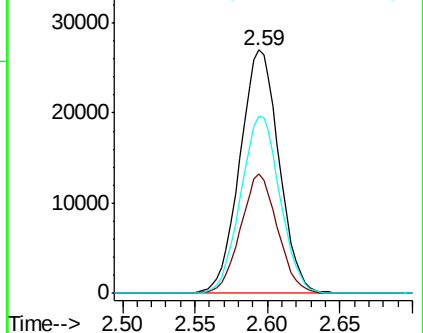
151 73.1 58.0 87.0



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: 5.077 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

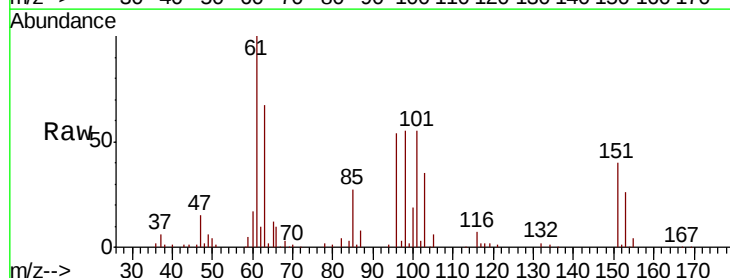
Tgt Ion: 96 Resp: 43625

Ion Ratio Lower Upper

96 100

61 186.6 128.8 239.2

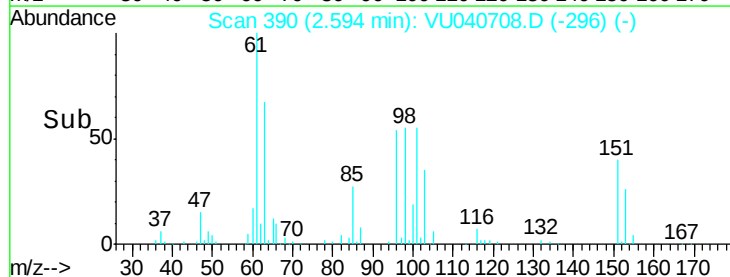
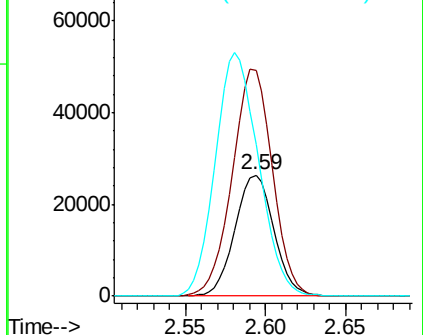
63 125.1 84.6 157.2

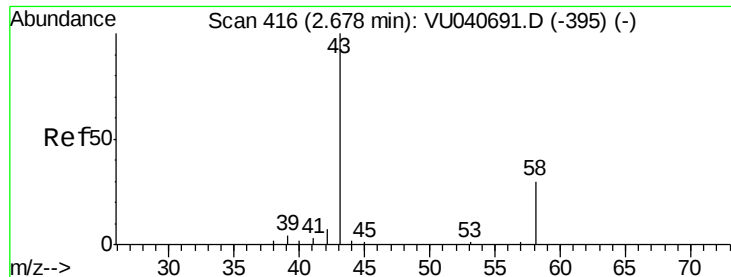


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.076 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.02 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampled :

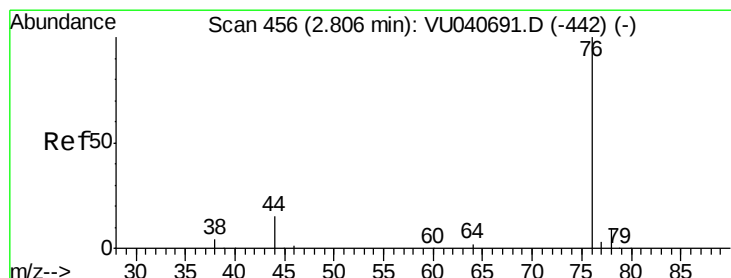
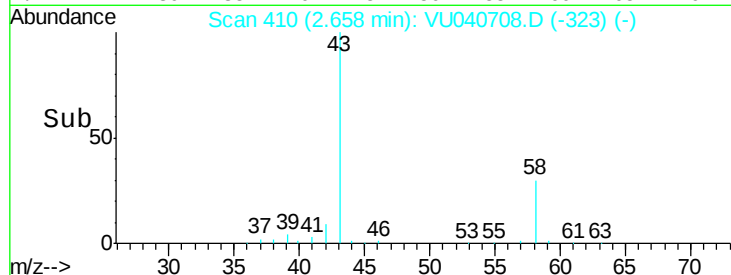
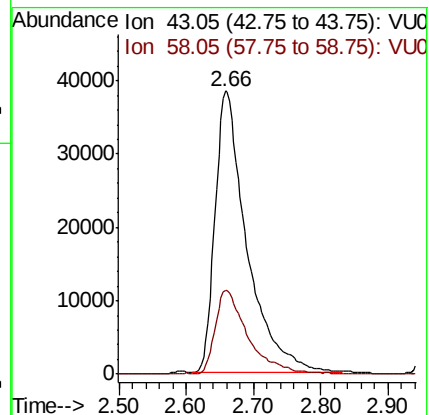
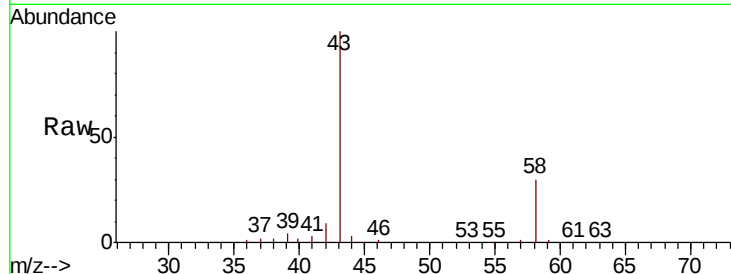
VSTD00510

Tot Ion: 43 Resp: 126435

Ion Ratio Lower Upper

43 100

58 30.7 0.0 60.6



#14

Carbon disulfide

Concen: 4.297 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040708.D

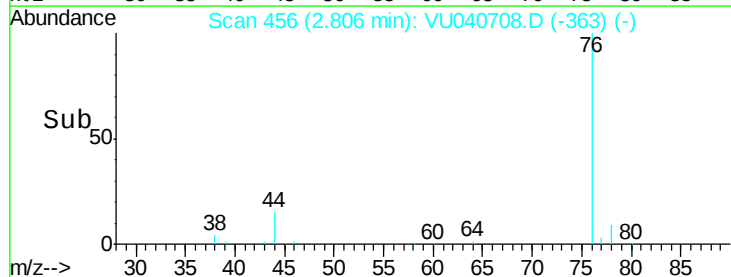
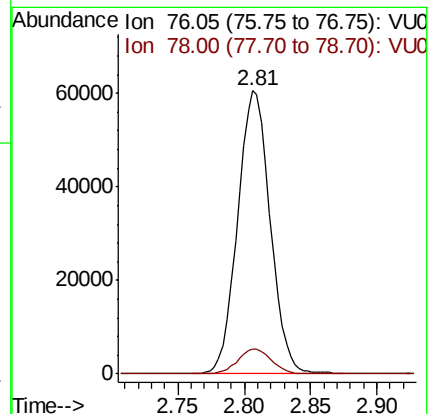
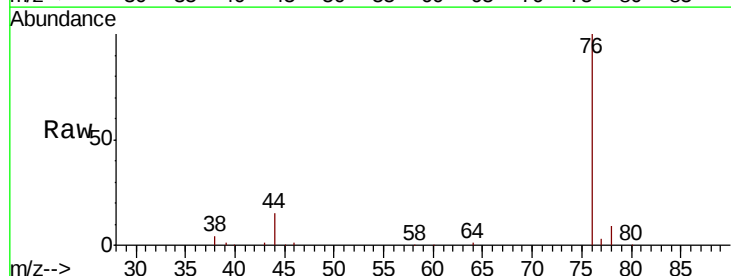
Acq: 14 Oct 2020 18:53

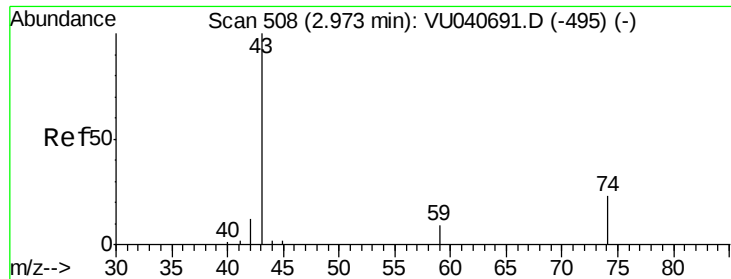
Tgt Ion: 76 Resp: 103376

Ion Ratio Lower Upper

76 100

78 8.9 6.8 10.2





#15

Methvl Acetate

Concen: 5.058 ug/L

RT: 2.97 min Scan# 507

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

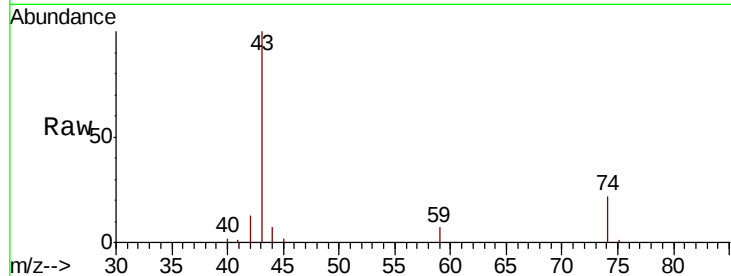
VSTD00510

Tot Ion: 43 Resp: 28591

Ion Ratio Lower Upper

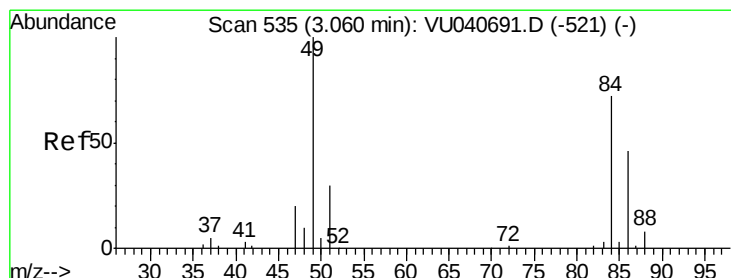
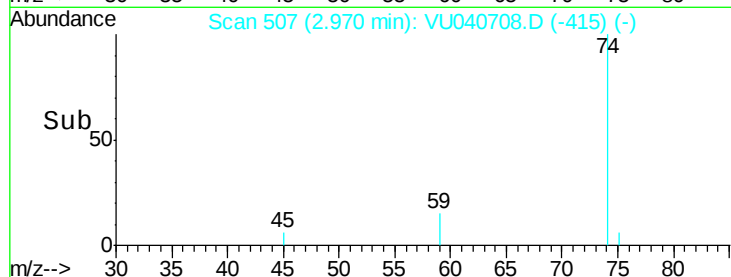
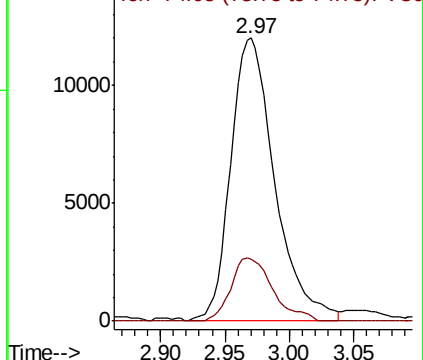
43 100

74 21.2 16.5 24.7



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 5.272 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

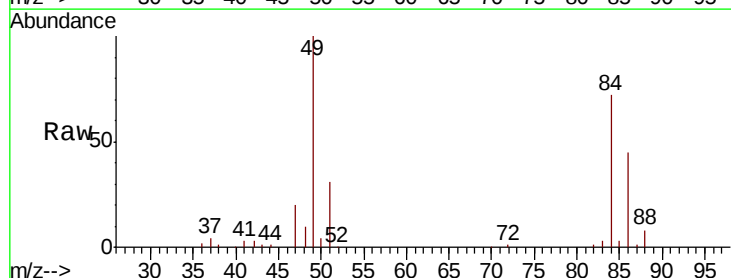
Tgt Ion: 84 Resp: 58163

Ion Ratio Lower Upper

84 100

86 63.0 45.4 84.4

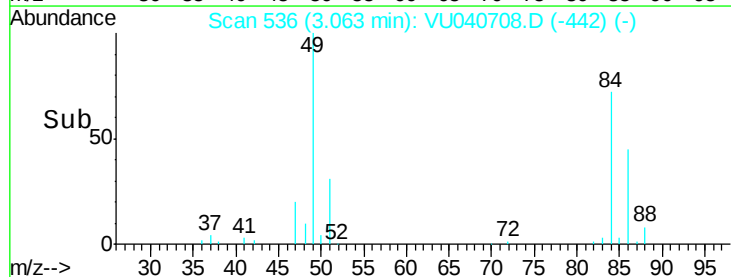
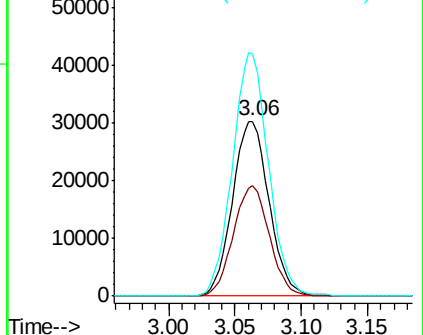
49 138.6 99.8 185.3

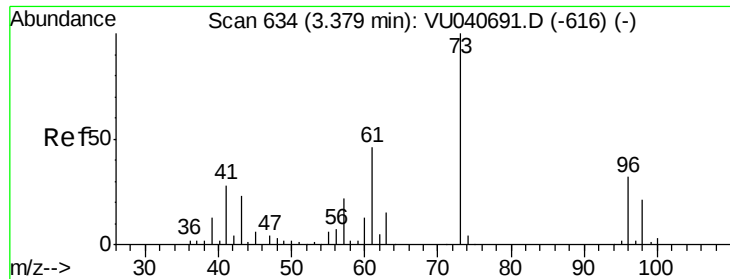


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

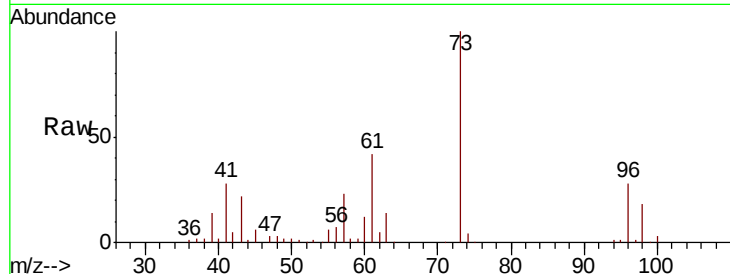




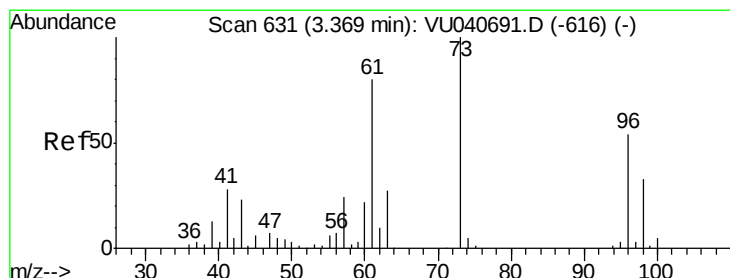
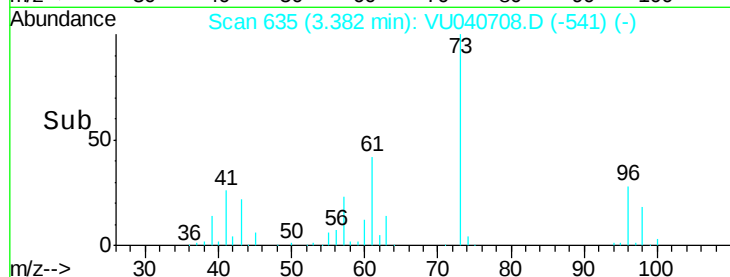
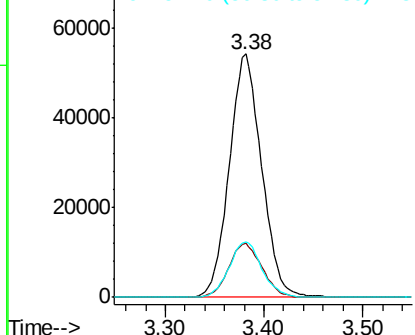
#17
Methvl tert-butvl Ether
Concen: 5.095 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tot Ion: 73 Resp: 123812
Ion Ratio Lower Upper
73 100
43 22.8 18.2 27.4
57 23.1 18.6 28.0

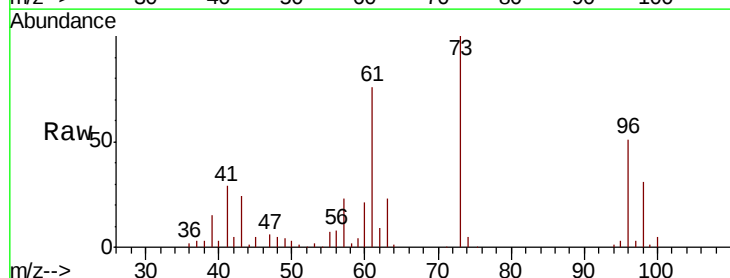


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

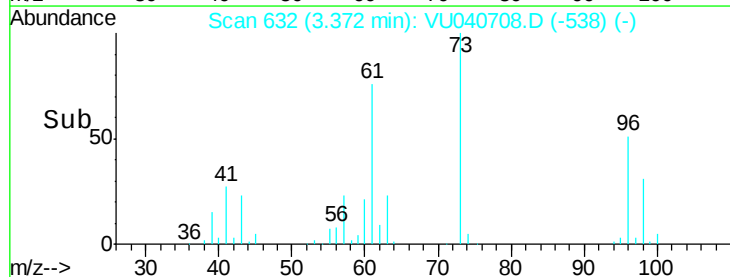
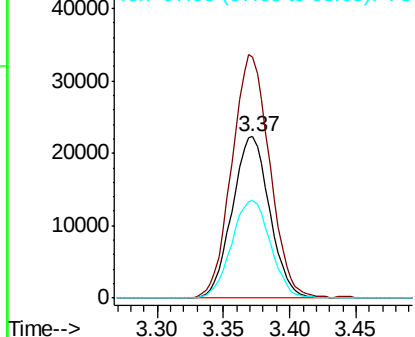


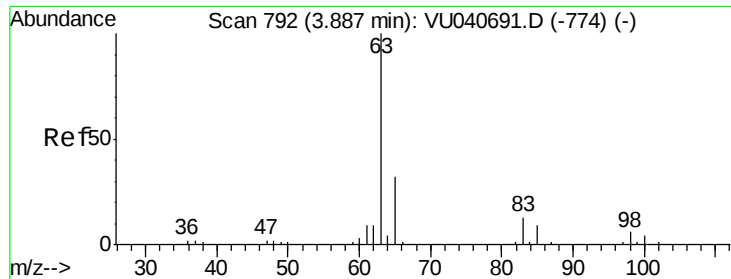
#18
trans-1,2-Dichloroethene
Concen: 4.866 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Tgt Ion: 96 Resp: 43768
Ion Ratio Lower Upper
96 100
61 149.7 105.9 196.7
98 60.8 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

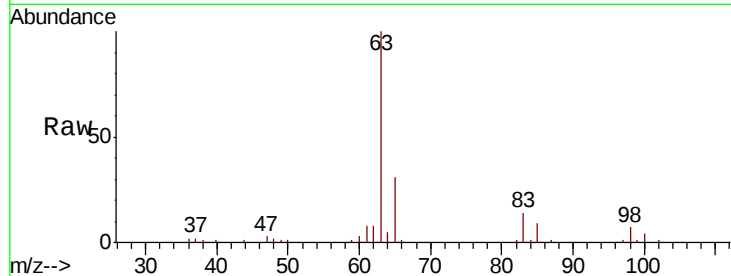




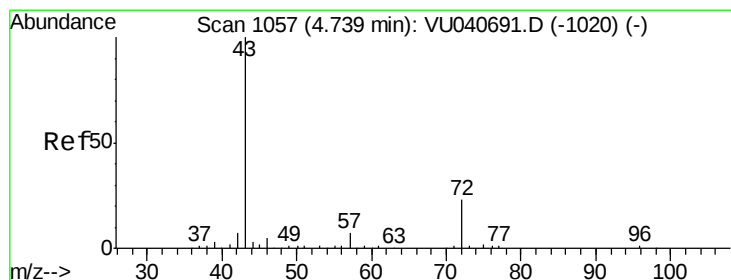
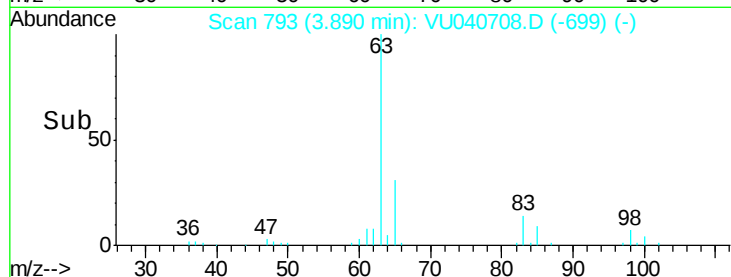
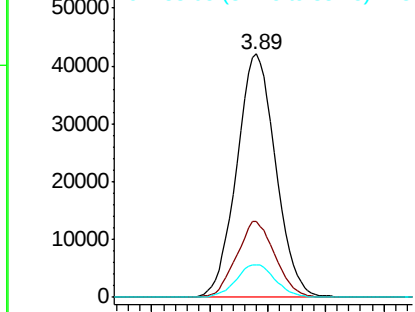
#19
 1,1-Dichloroethane
 Concen: 5.278 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tot Ion: 63 Resp: 98189
 Ion Ratio Lower Upper
 63 100
 65 31.0 21.9 40.7
 83 13.5 9.6 17.8

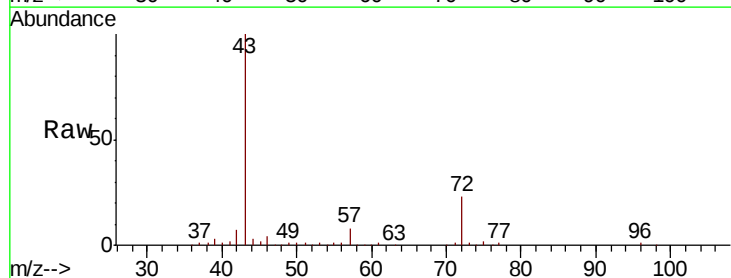


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

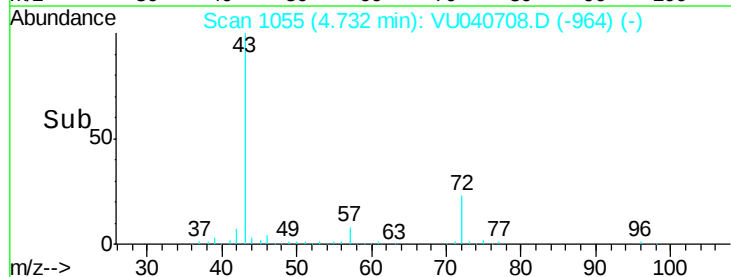
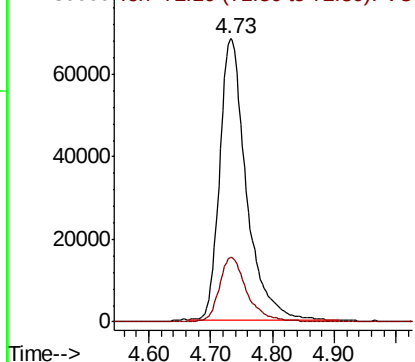


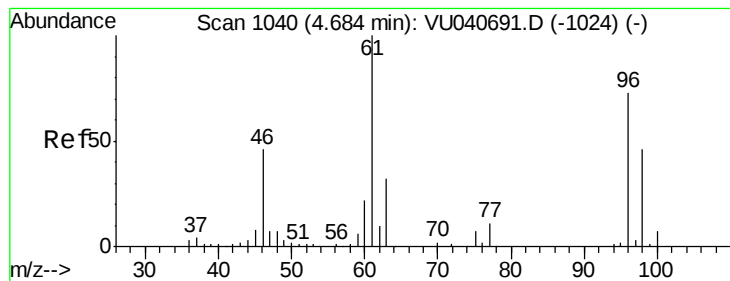
#21
 2-Butanone
 Concen: 53.050 ug/L
 RT: 4.73 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion: 43 Resp: 204738
 Ion Ratio Lower Upper
 43 100
 72 23.9 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: 5.390 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

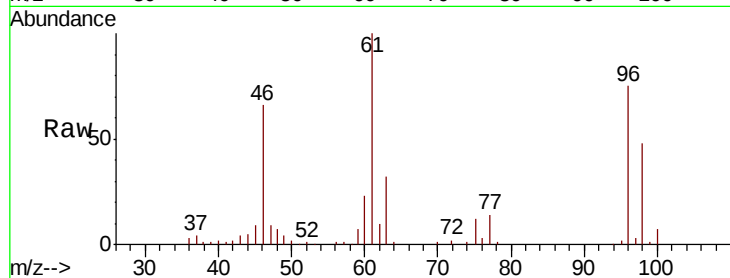
Tot Ion: 96 Resp: 52286

Ion Ratio Lower Upper

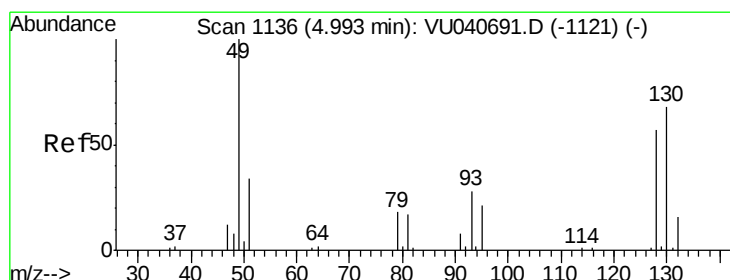
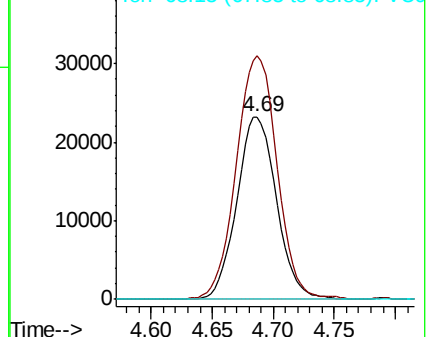
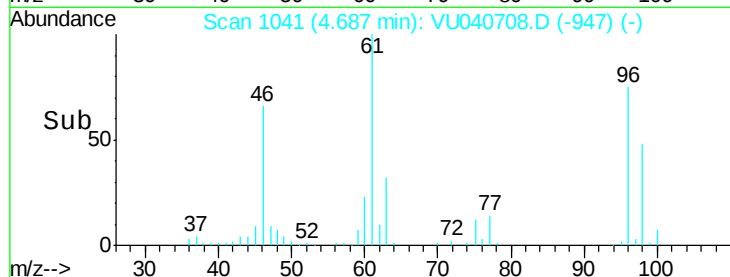
96 100

61 133.3 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040708.D (-947) (-)



#23

Bromochloromethane

Concen: 5.271 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Tgt Ion: 128 Resp: 25402

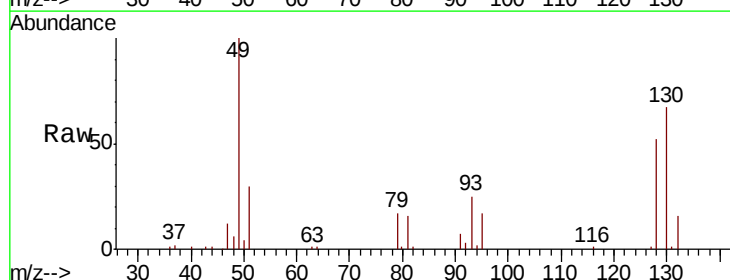
Ion Ratio Lower Upper

128 100

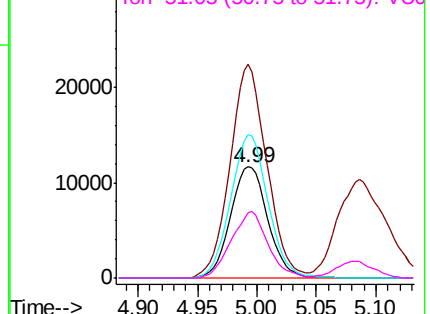
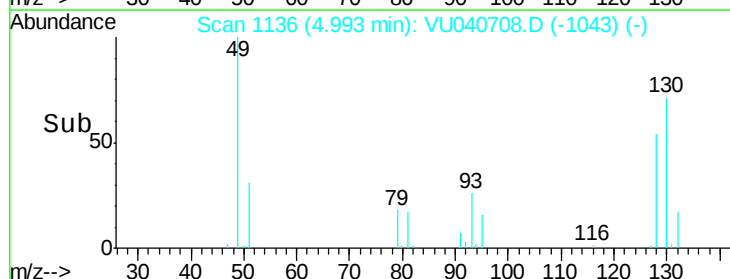
49 192.6 132.2 245.4

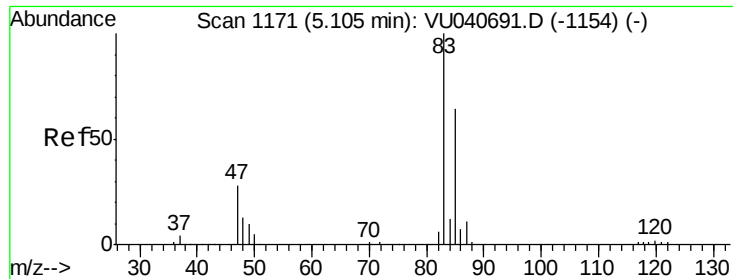
130 129.8 89.2 165.8

51 58.3 45.3 67.9



Abundance Ion 127.90 (127.60 to 128.60): VU040708.D (-1043) (-)

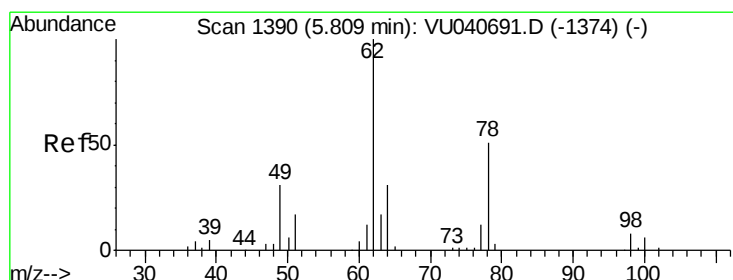
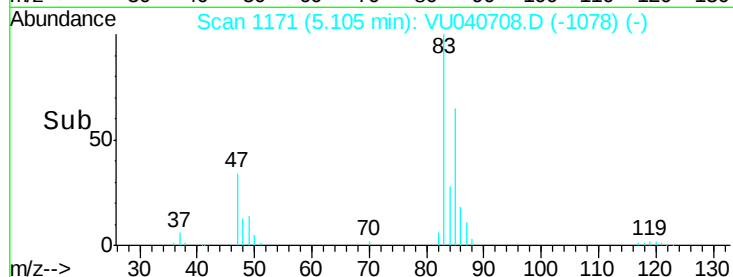
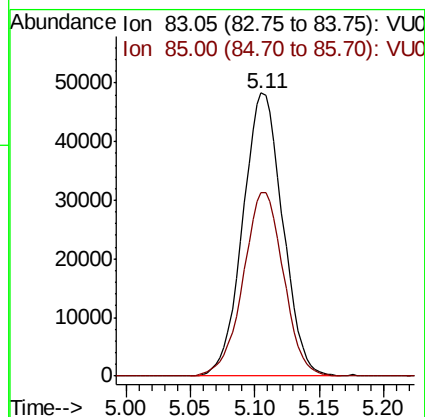
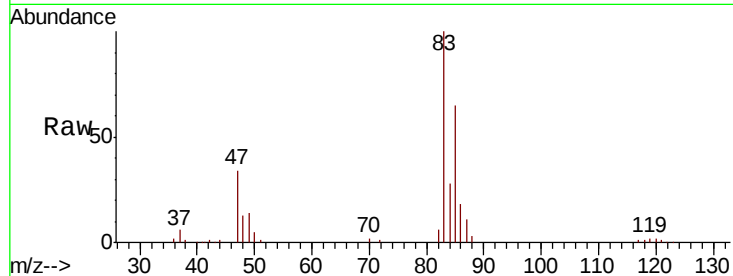




#25
Chloroform
Concen: 5.475 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

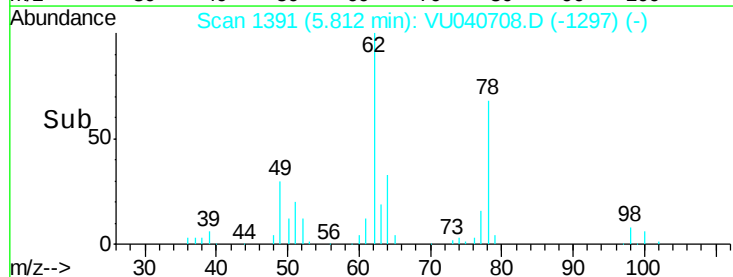
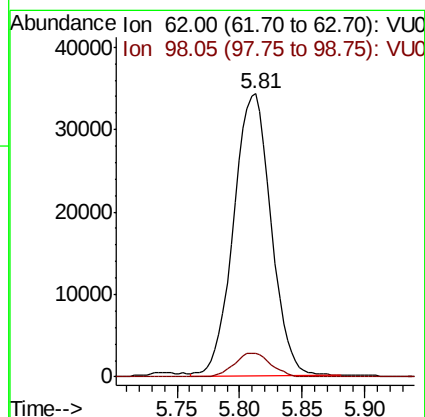
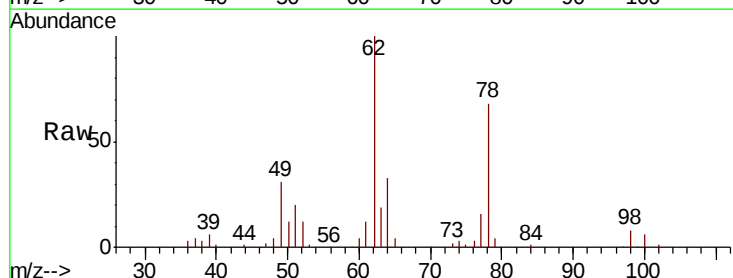
Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

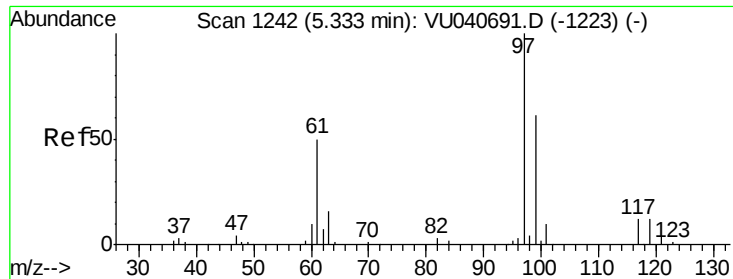
Tot Ion: 83 Resp: 103996
Ion Ratio Lower Upper
83 100
85 64.9 46.5 86.5



#27
1,2-Dichloroethane
Concen: 5.319 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Tgt Ion: 62 Resp: 71501
Ion Ratio Lower Upper
62 100
98 8.4 6.6 10.0

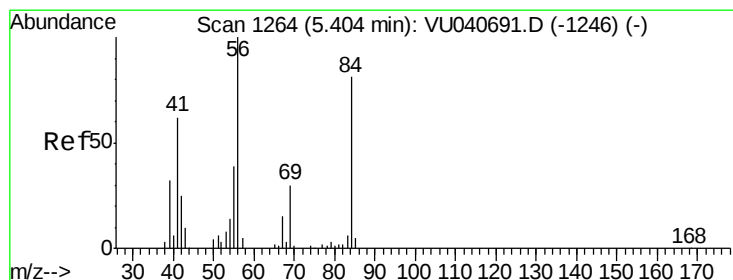
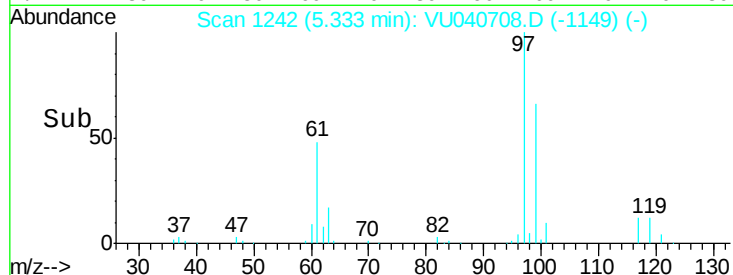
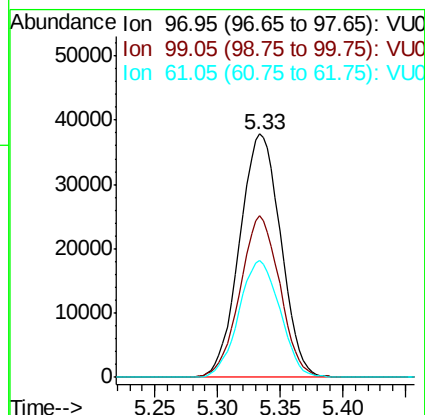
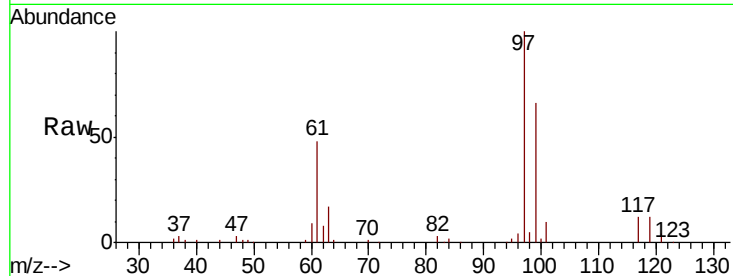




#29
 1,1,1-Trichloroethane
 Concen: 5.193 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

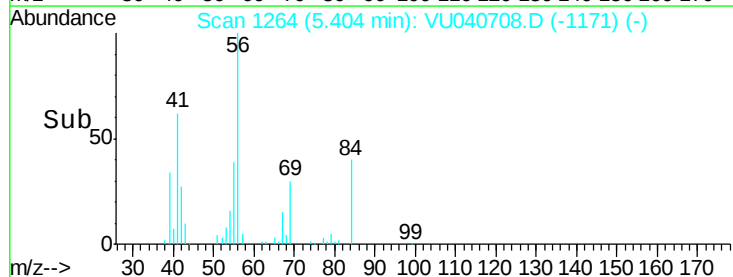
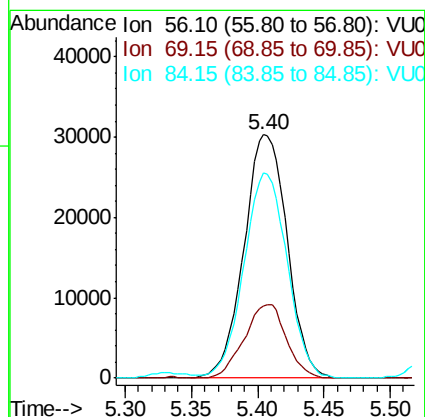
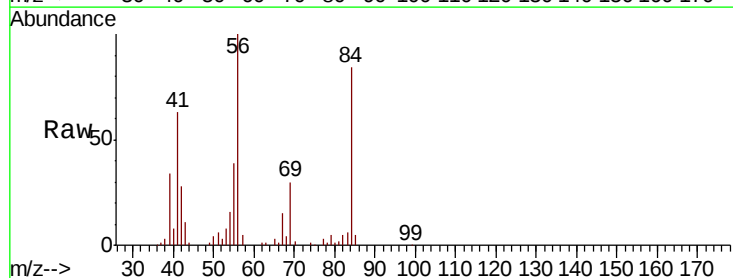
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

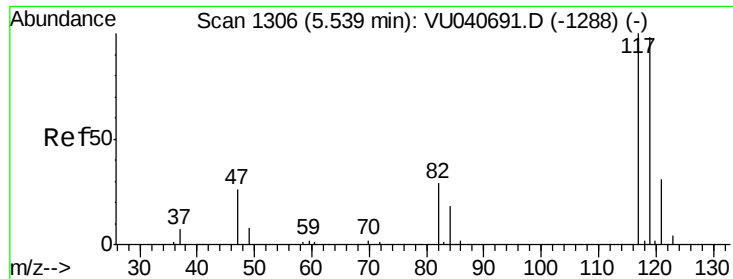
Tot Ion: 97 Resp: 86374
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.3 76.9
 61 48.0 39.4 59.2



#30
 Cyclohexane
 Concen: 4.490 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion: 56 Resp: 68817
 Ion Ratio Lower Upper
 56 100
 69 29.4 23.8 35.8
 84 84.6 64.0 96.0





#31

Carbon tetrachloride

Concen: 5.140 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

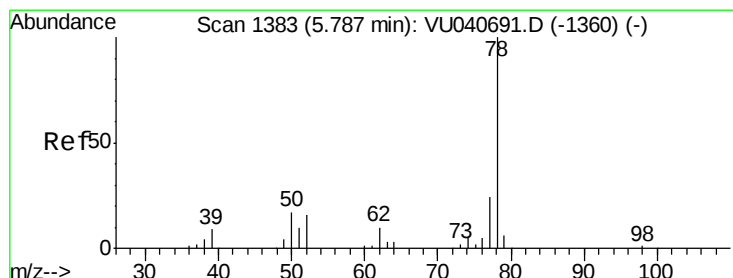
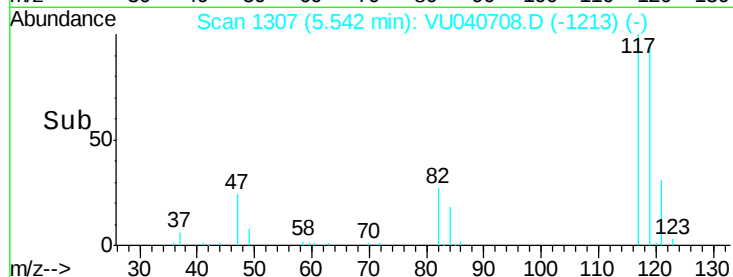
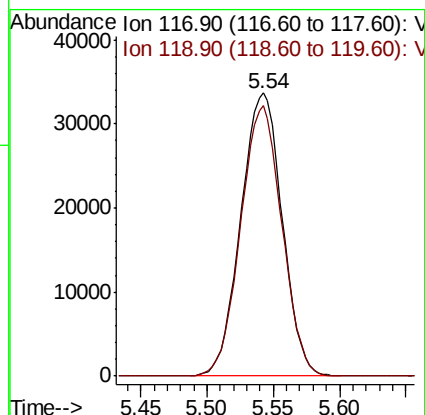
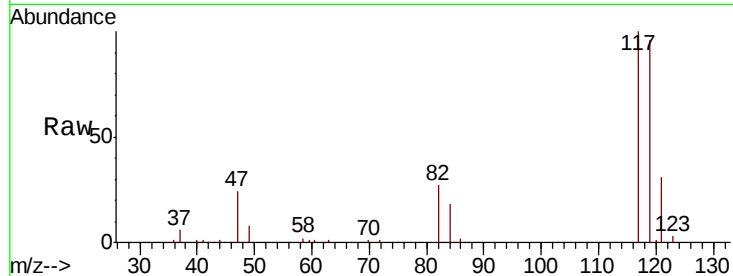
VSTD00510

Tot Ion:117 Resp: 73169

Ion Ratio Lower Upper

117 100

119 95.2 76.2 114.2



#33

Benzene

Concen: 5.133 ug/L

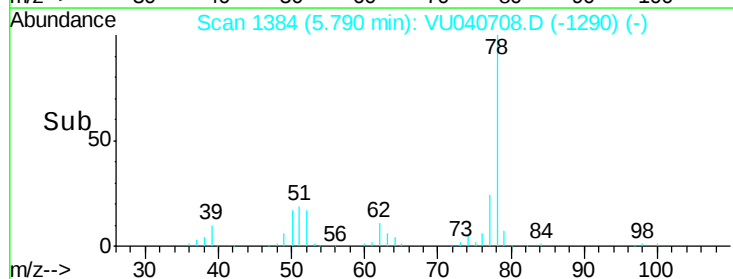
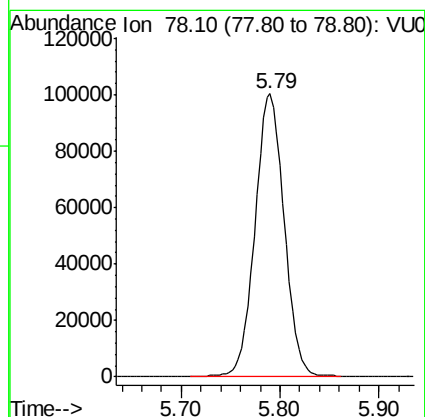
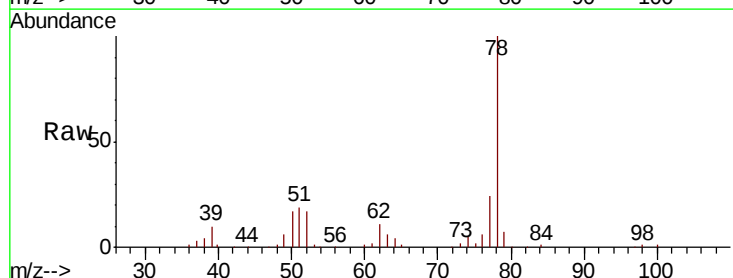
RT: 5.79 min Scan# 1384

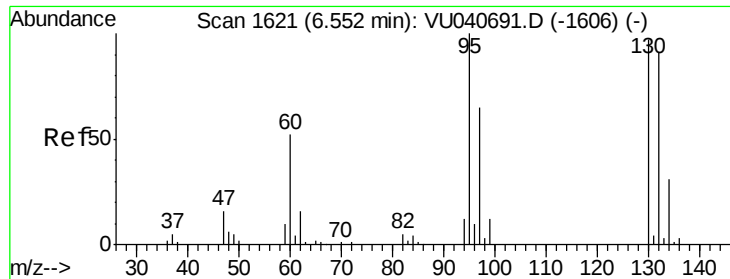
Delta R.T. 0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Tgt Ion: 78 Resp: 204123

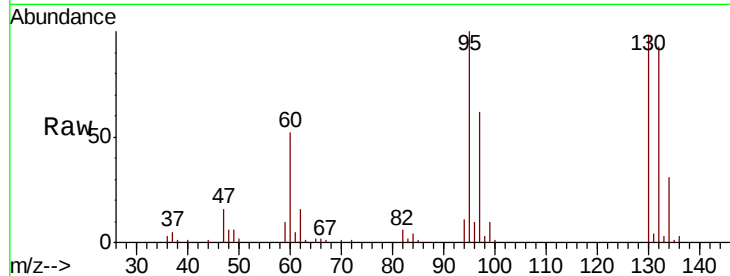




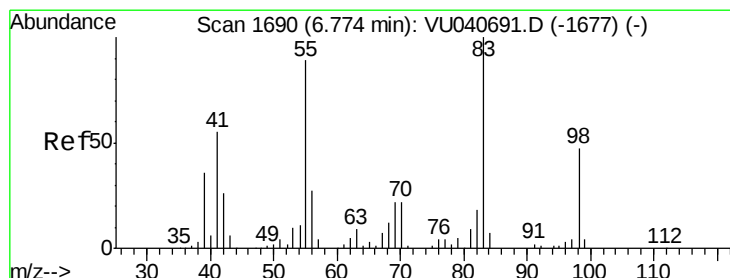
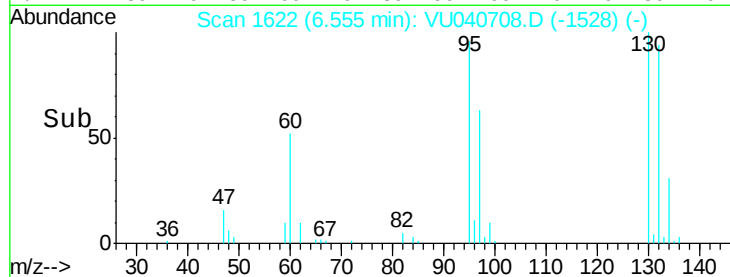
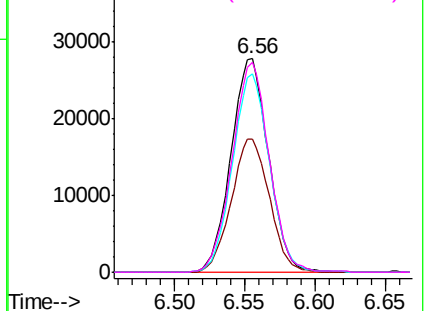
#34
 Trichloroethene
 Concen: 5.015 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tot Ion: 95 Resp: 51698
 Ion Ratio Lower Upper
 95 100
 97 62.3 45.5 84.5
 132 92.7 67.5 125.4
 130 98.2 69.9 129.9

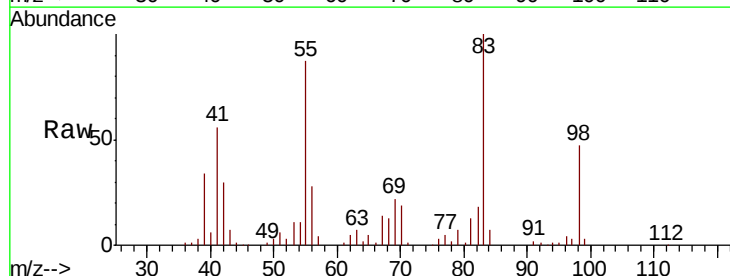


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

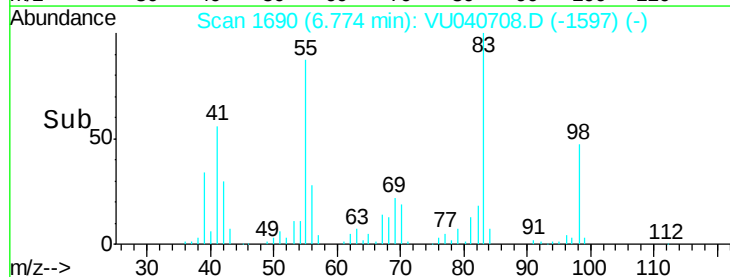
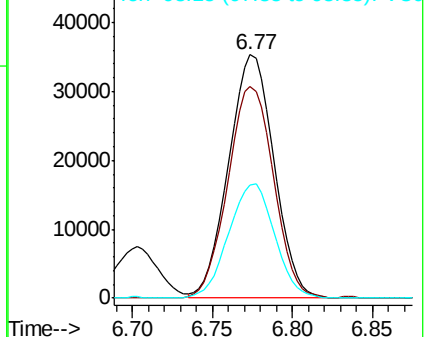


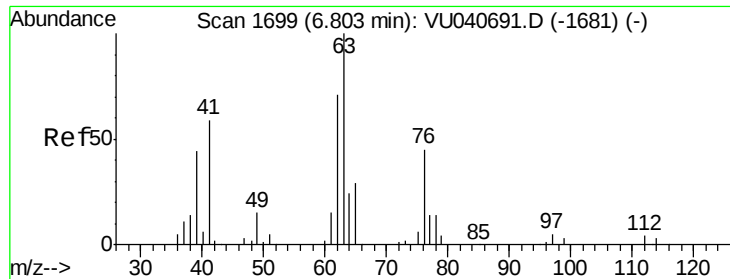
#35
 Methylcyclohexane
 Concen: 4.684 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion: 83 Resp: 68470
 Ion Ratio Lower Upper
 83 100
 55 87.7 70.7 106.1
 98 47.4 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

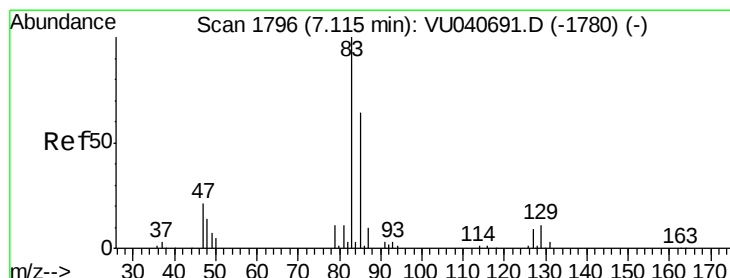
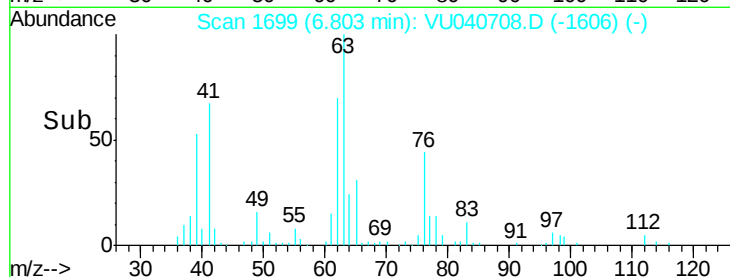
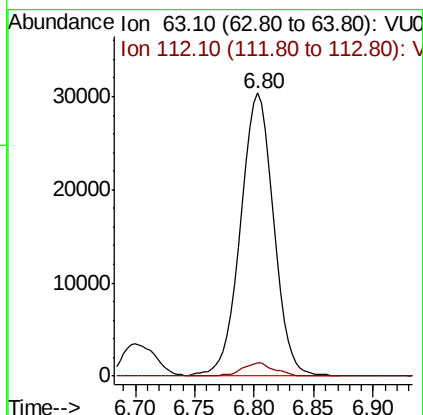
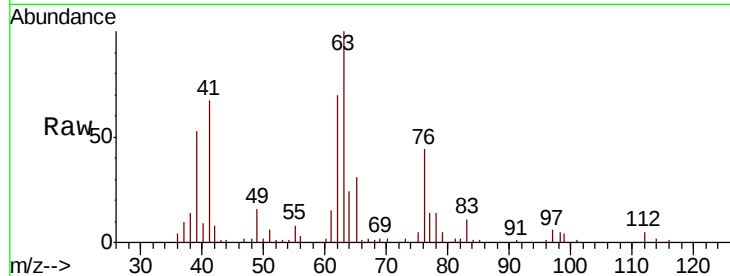




#37
 1,2-Dichloropropane
 Concen: 5.298 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

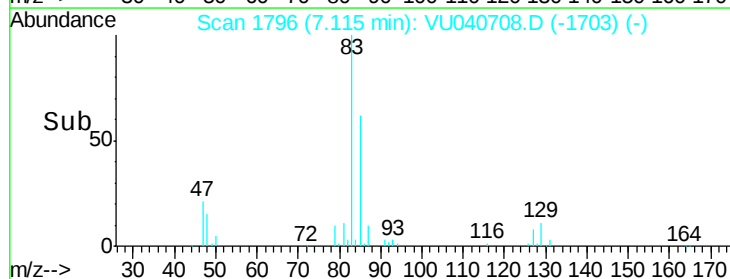
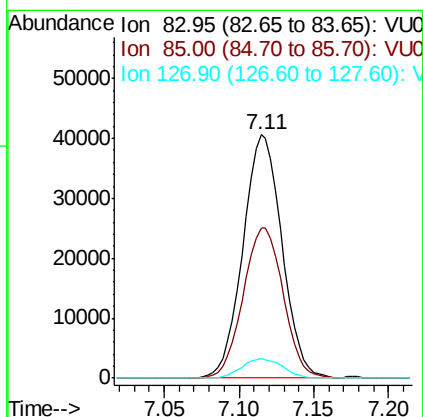
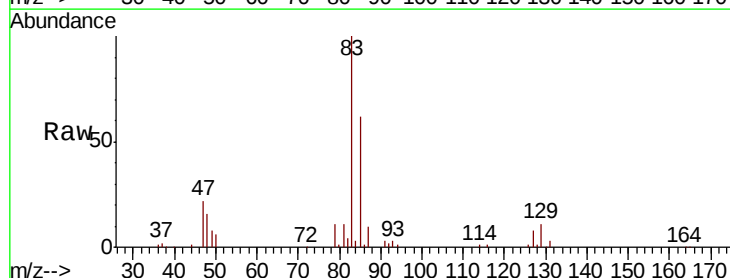
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

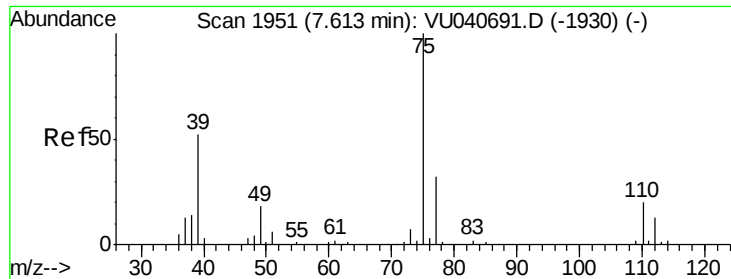
Tot Ion: 63 Resp: 58698
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.5 5.3



#38
 Bromodichloromethane
 Concen: 5.202 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion: 83 Resp: 73683
 Ion Ratio Lower Upper
 83 100
 85 61.5 46.0 85.4
 127 7.9 6.7 10.1

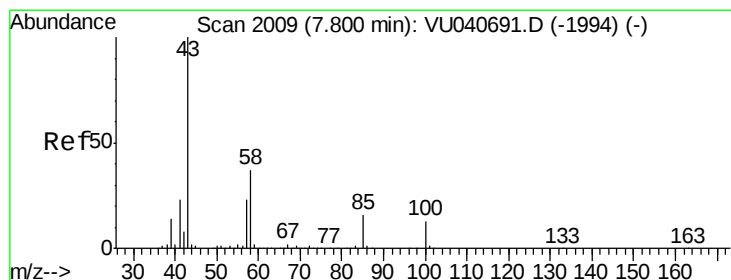
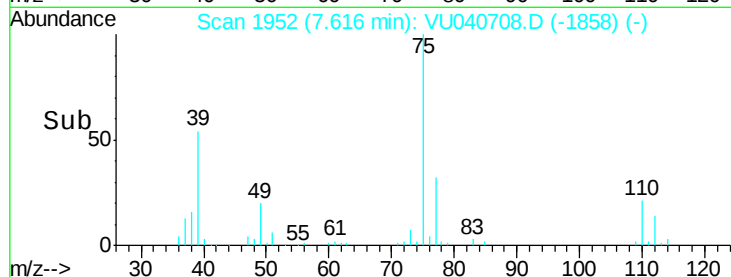
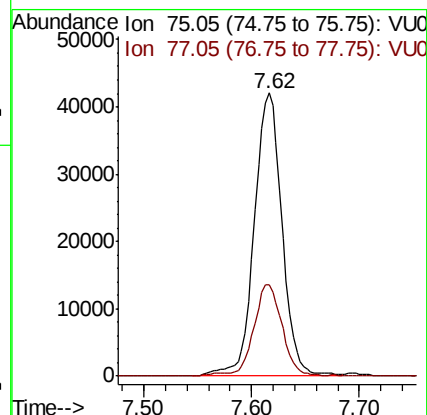
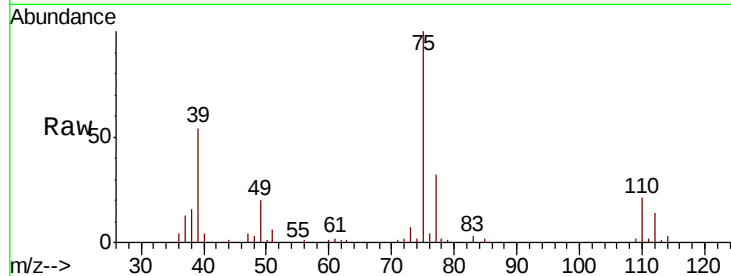




#39
 cis-1,3-Dichloropropene
 Concen: 4.970 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

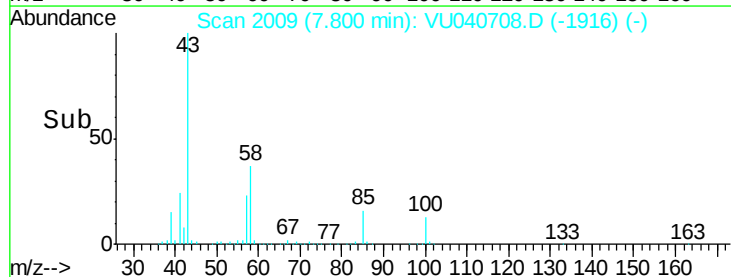
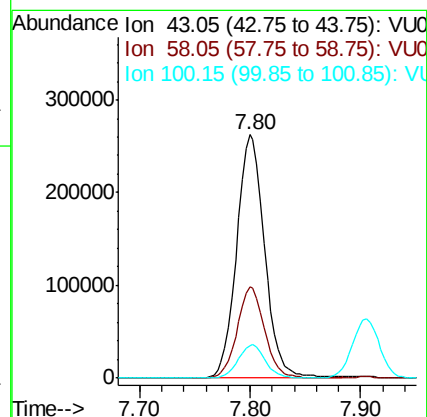
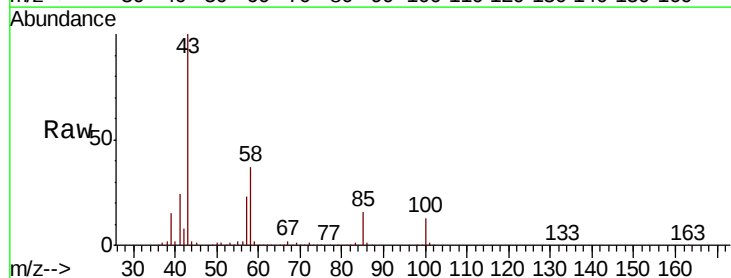
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

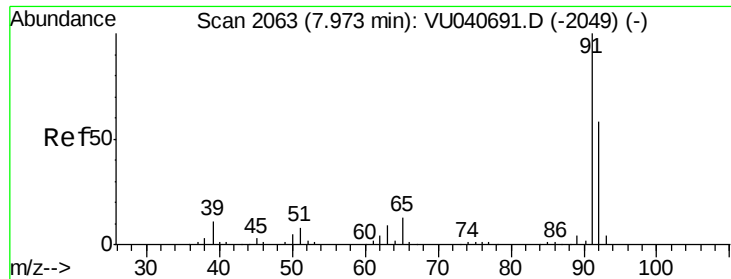
Tot Ion: 75 Resp: 75243
 Ion Ratio Lower Upper
 75 100
 77 32.1 20.5 38.1



#40
 4-Methyl-2-pentanone
 Concen: 52.367 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion: 43 Resp: 462579
 Ion Ratio Lower Upper
 43 100
 58 36.6 29.7 44.5
 100 13.3 10.7 16.1





#42

Toluene

Concen: 5.296 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

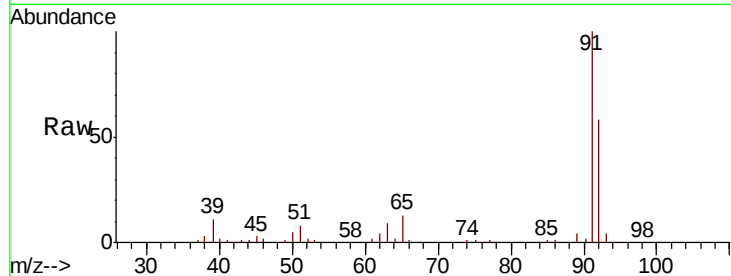
VSTD00510

Tot Ion: 91 Resp: 214599

Ion Ratio Lower Upper

91 100

92 57.7 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU040691.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040691.D (-2049) (-)

7.98

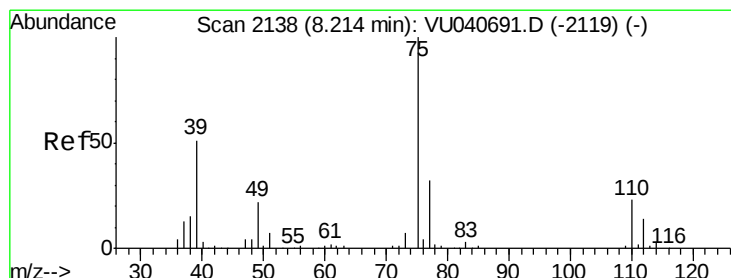
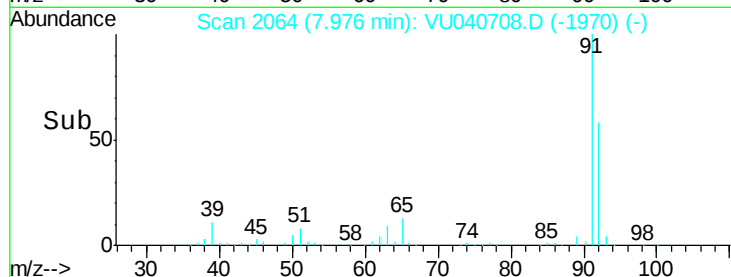
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.274 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040708.D

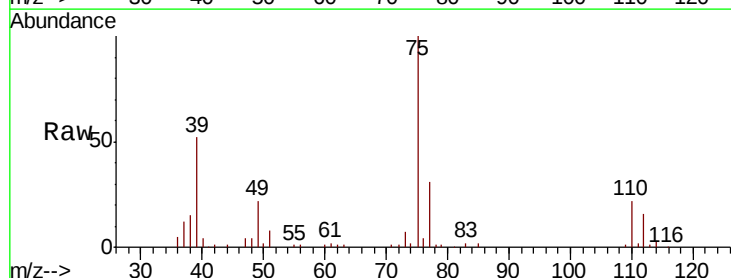
Acq: 14 Oct 2020 18:53

Tgt Ion: 75 Resp: 73500

Ion Ratio Lower Upper

75 100

77 30.9 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU040691.D (-2119) (-)

Ion 77.05 (76.75 to 77.75): VU040691.D (-2119) (-)

8.22

50000

40000

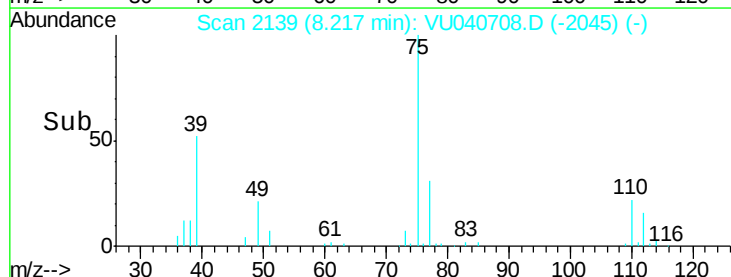
30000

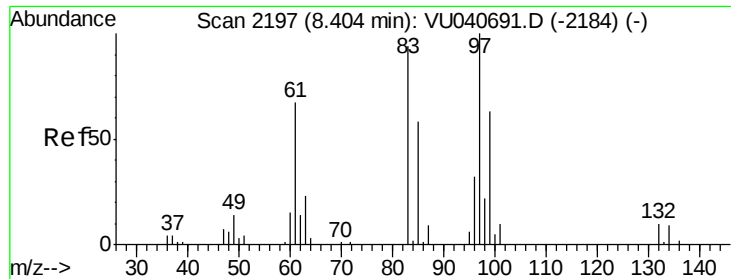
20000

10000

0

Time-->

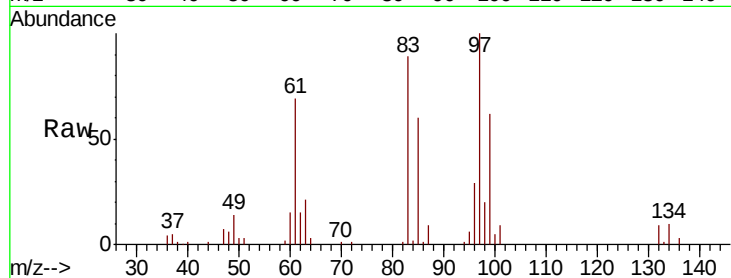




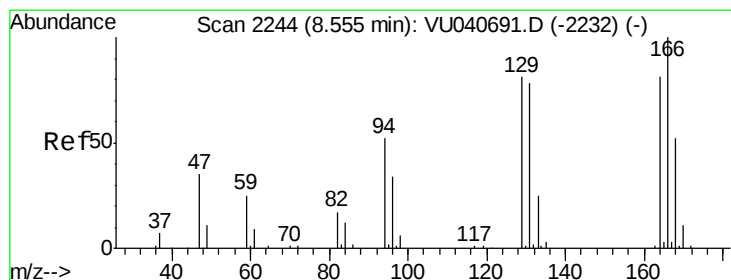
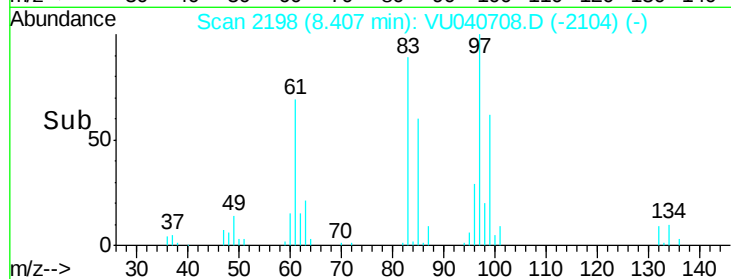
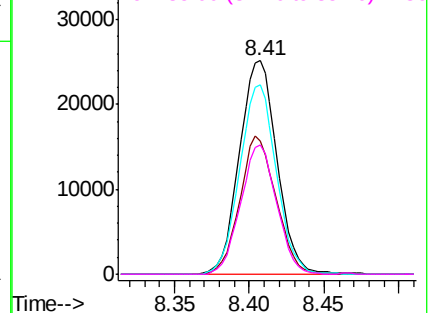
#45
 1,1,2-Trichloroethane
 Concen: 5.300 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tot Ion:	97	Resp:	43984
Ion	Ratio	Lower	Upper
97	100		
99	62.2	44.0	81.6
83	88.5	62.9	116.9
85	60.4	40.3	74.8

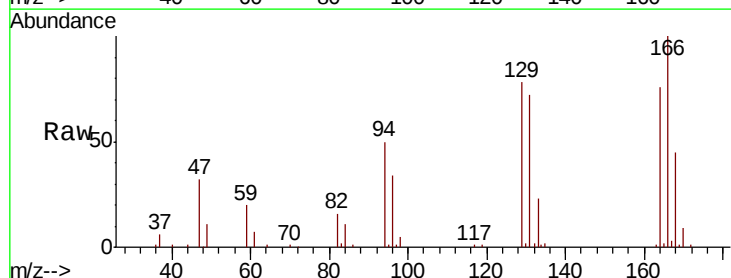


Abundance Ion 96.95 (96.65 to 97.65): VU040708.D (-2197) (-)
 Ion 99.05 (98.75 to 99.75): VU040708.D (-2197) (-)
 Ion 82.95 (82.65 to 83.65): VU040708.D (-2197) (-)
 Ion 85.00 (84.70 to 85.70): VU040708.D (-2197) (-)

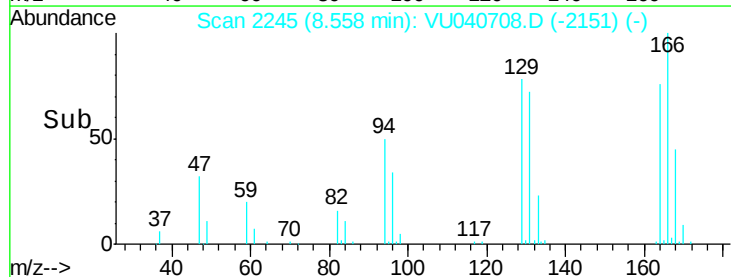
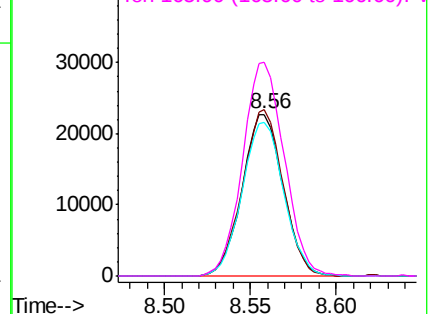


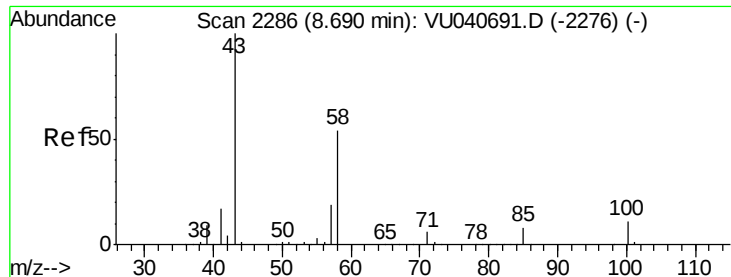
#47
 Tetrachloroethene
 Concen: 5.116 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion:	164	Resp:	37621
Ion	Ratio	Lower	Upper
164	100		
129	102.8	68.8	127.8
131	95.4	66.7	123.9
166	132.2	83.9	155.7



Abundance Ion 163.90 (163.60 to 164.60): VU040708.D (-2244) (-)
 Ion 128.95 (128.65 to 129.65): VU040708.D (-2244) (-)
 Ion 130.95 (130.65 to 131.65): VU040708.D (-2244) (-)
 Ion 165.90 (165.60 to 166.60): VU040708.D (-2244) (-)

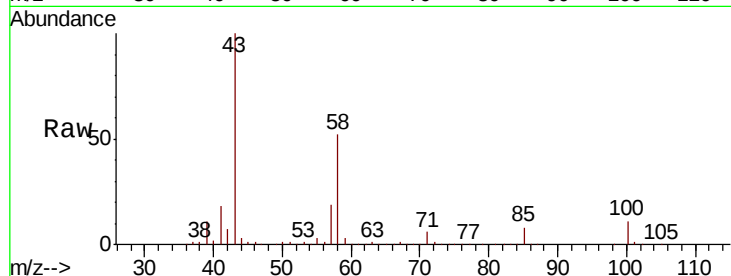




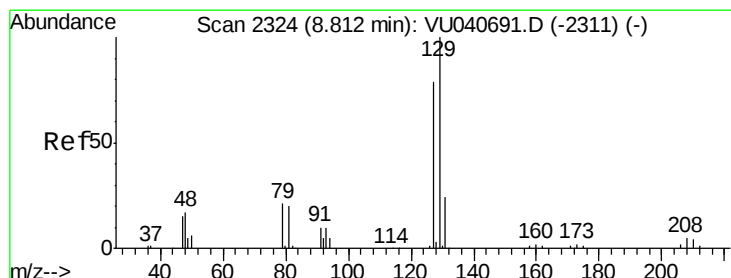
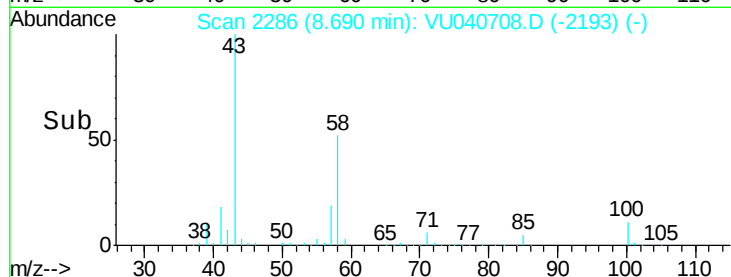
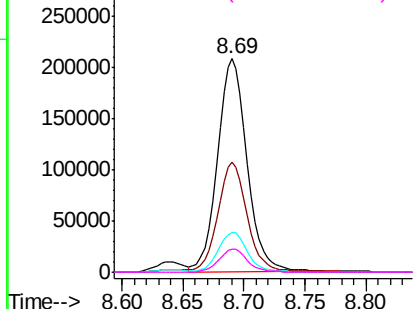
#48
2-Hexanone
Concen: 53.564 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tot Ion: 43 Resp: 352275
Ion Ratio Lower Upper
43 100
58 51.4 41.0 61.6
57 18.6 14.4 21.6
100 10.9 8.6 13.0

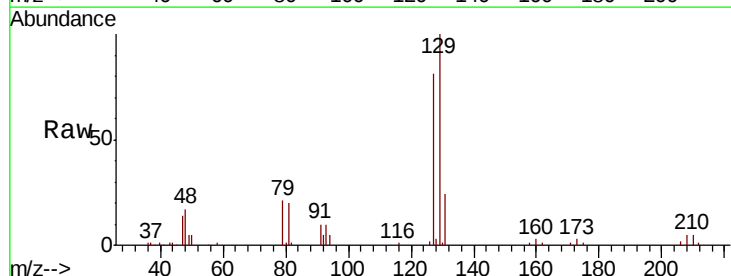


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

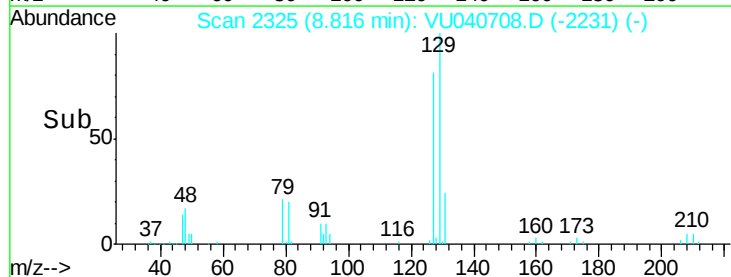
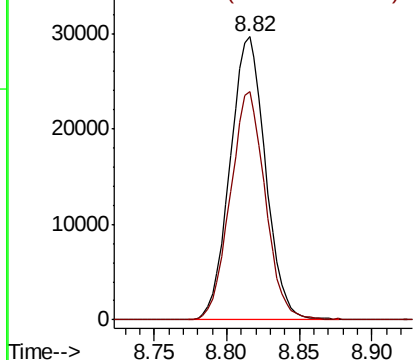


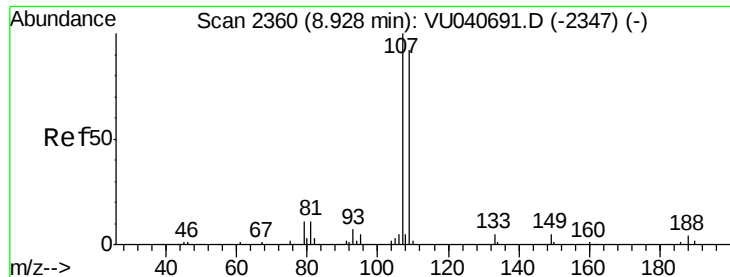
#49
Dibromochloromethane
Concen: 5.274 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Tgt Ion: 129 Resp: 50359
Ion Ratio Lower Upper
129 100
127 80.6 55.8 103.6



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

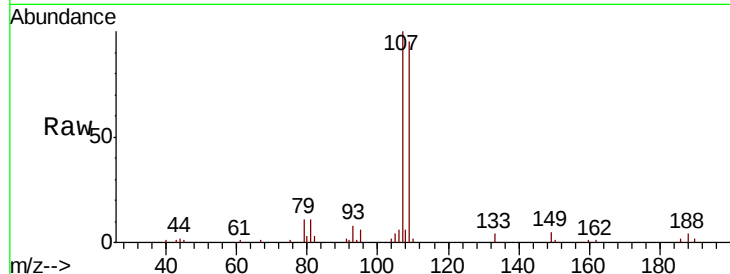




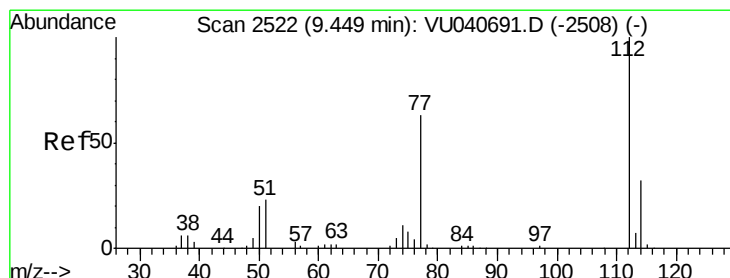
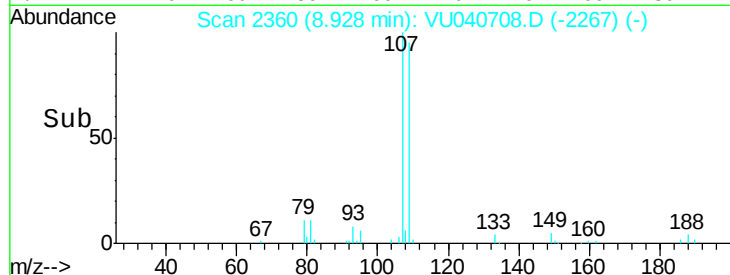
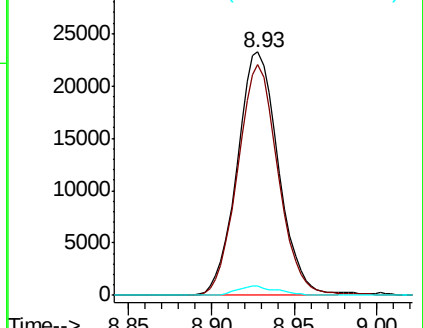
#50
 1,2-Dibromoethane
 Concen: 5.112 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tot Ion:107 Resp: 40240
 Ion Ratio Lower Upper
 107 100
 109 94.7 65.7 121.9
 188 3.6 3.0 4.4

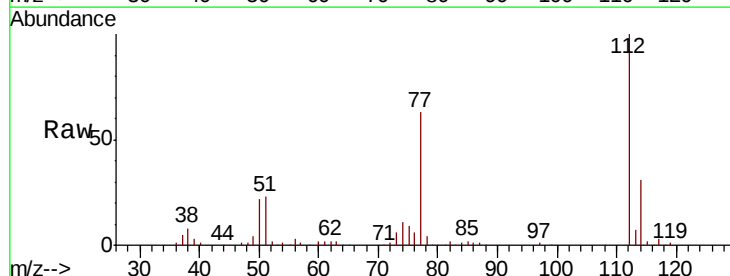


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

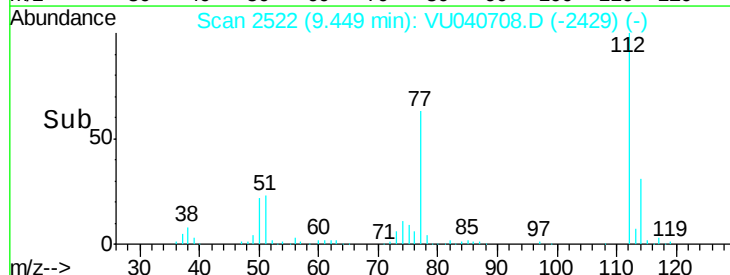
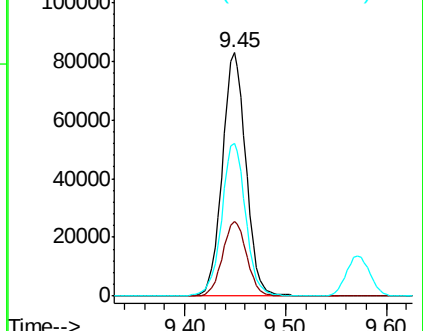


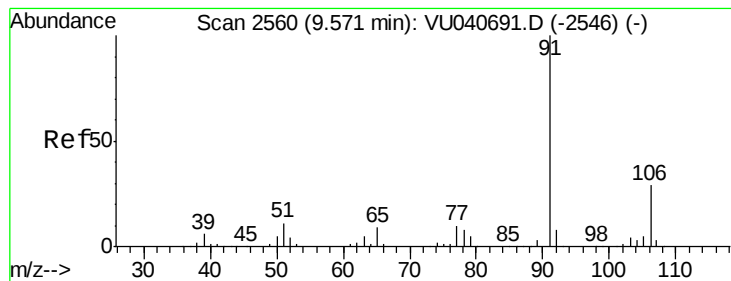
#51
 Chlorobenzene
 Concen: 5.077 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion:112 Resp: 135511
 Ion Ratio Lower Upper
 112 100
 114 30.8 23.1 42.9
 77 63.0 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: 5.076 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

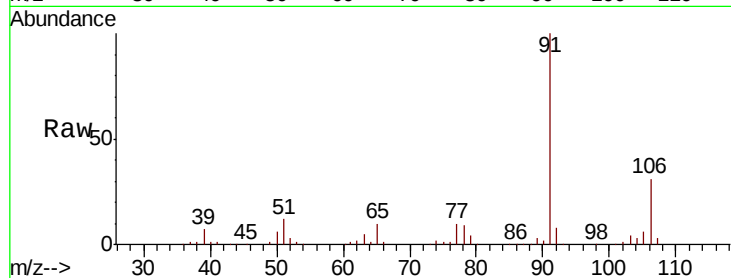
VSTD00510

Tot Ion: 91 Resp: 222594

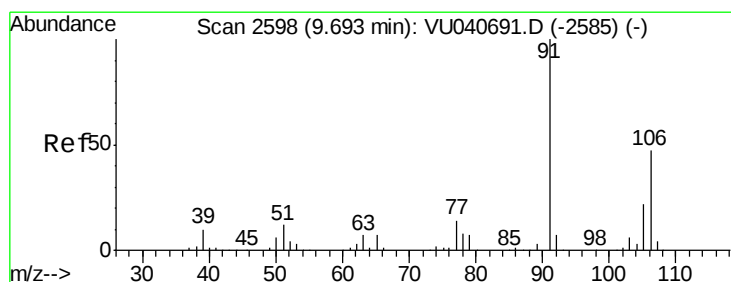
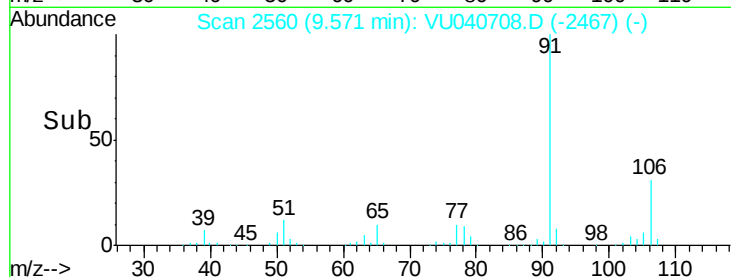
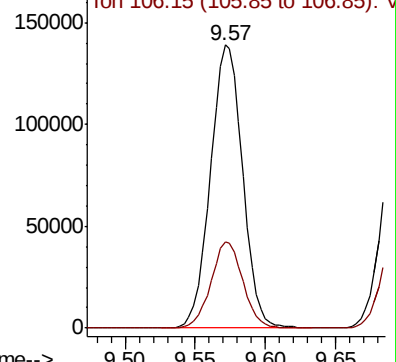
Ion Ratio Lower Upper

91 100

106 30.6 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU040708.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.358 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040708.D

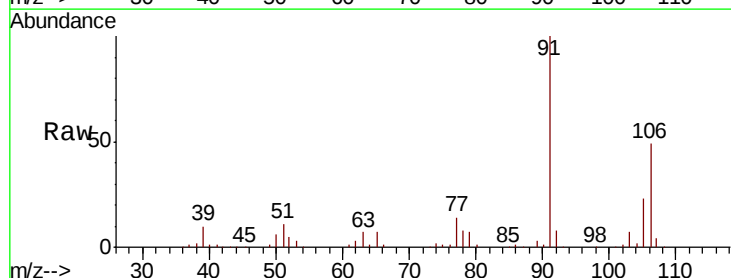
Acq: 14 Oct 2020 18:53

Tgt Ion: 106 Resp: 85645

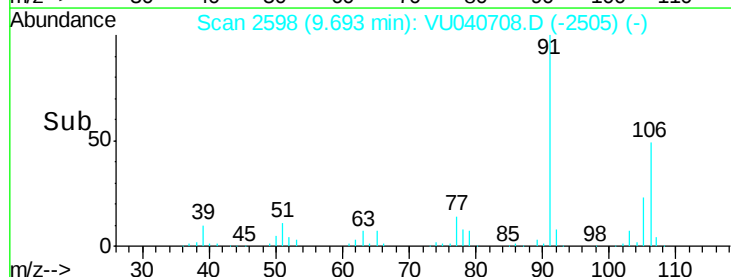
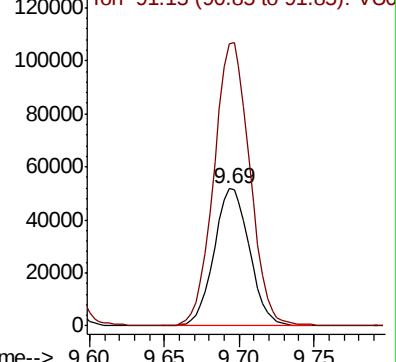
Ion Ratio Lower Upper

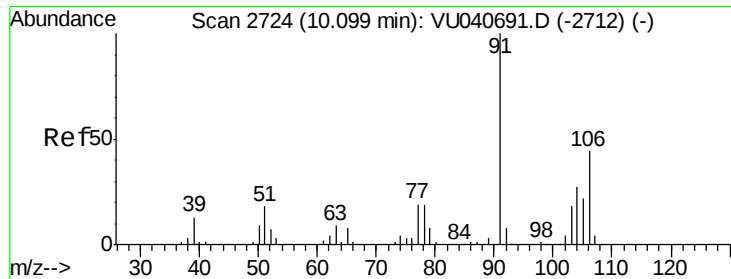
106 100

91 205.9 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040708.D (-2585) (-)

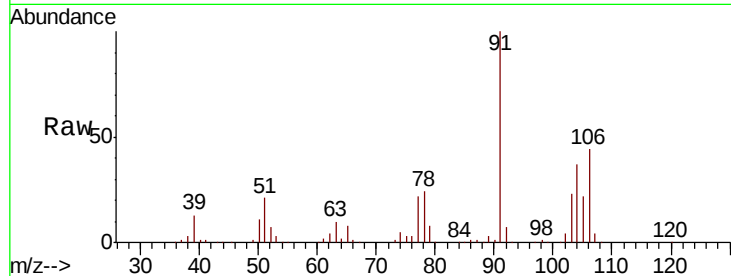




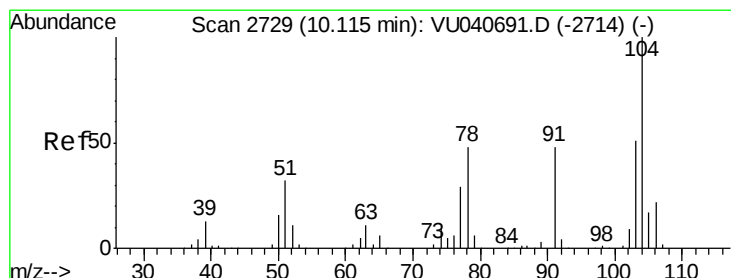
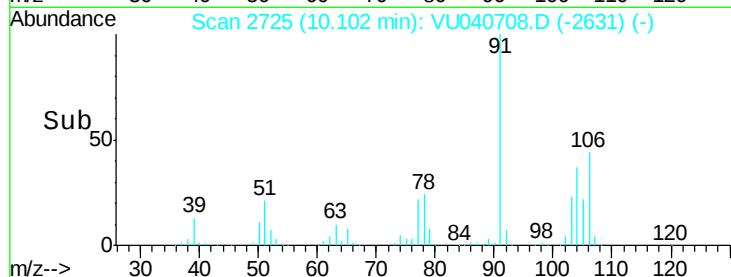
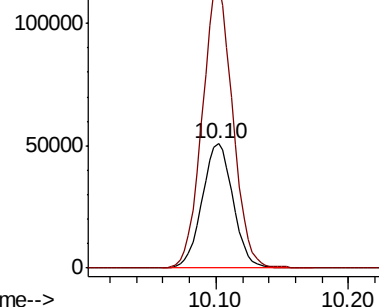
#54
o-Xylene
Concen: 5.350 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Instrument :
MSVOA_U
ClientSampleId :
VSTD00510

Tot Ion:106 Resp: 82241
Ion Ratio Lower Upper
106 100
91 227.2 160.2 297.4

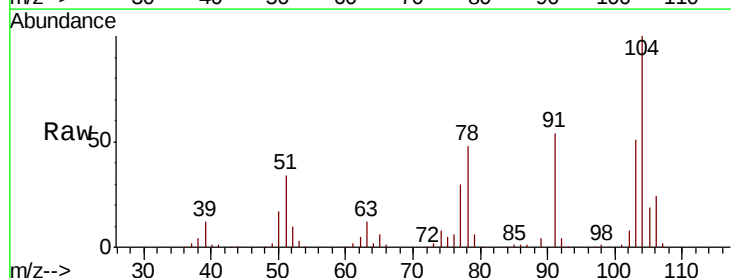


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

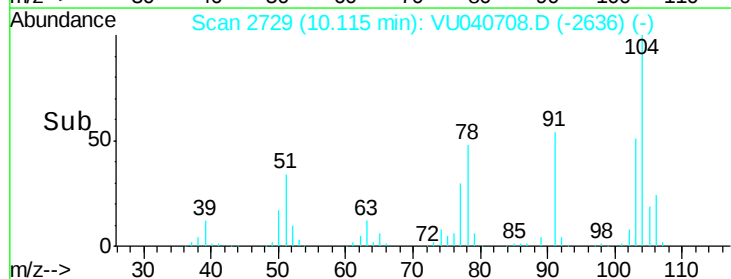
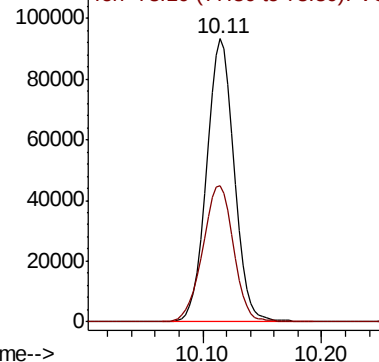


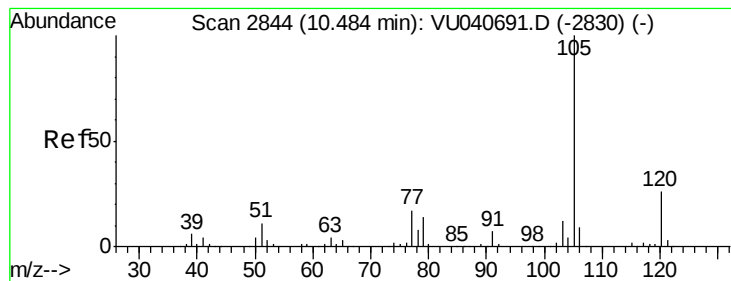
#55
Styrene
Concen: 5.602 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040708.D
Acq: 14 Oct 2020 18:53

Tgt Ion:104 Resp: 149540
Ion Ratio Lower Upper
104 100
78 48.1 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: 5.325 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

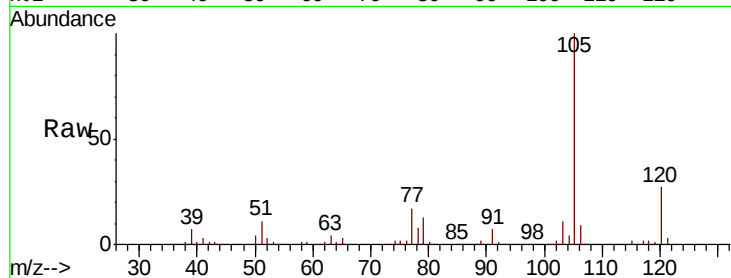
Tot Ion:105 Resp: 220347

Ion Ratio Lower Upper

105 100

120 26.4 20.6 30.8

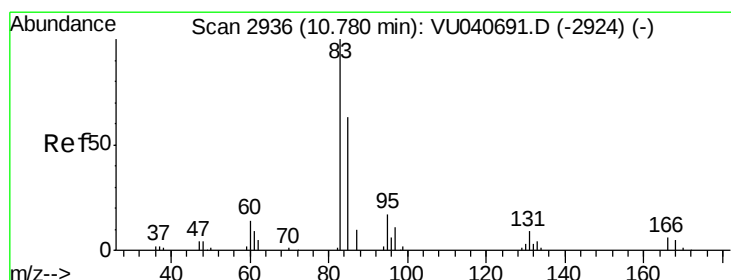
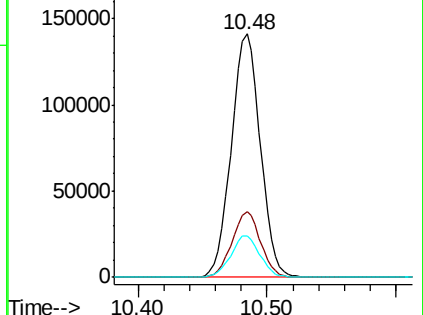
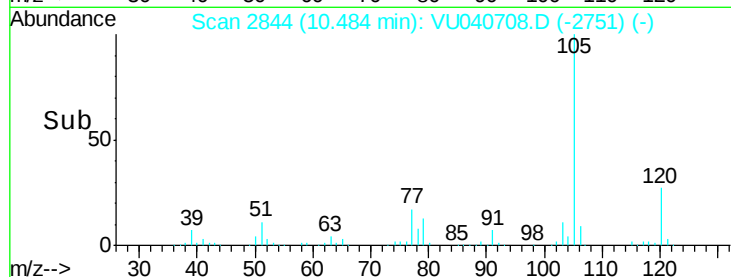
77 17.1 13.8 20.6



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: 5.198 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

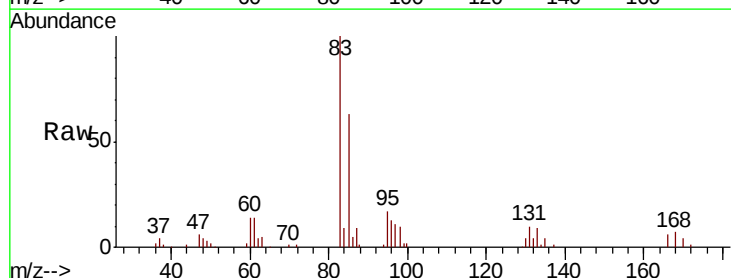
Tgt Ion: 83 Resp: 56636

Ion Ratio Lower Upper

83 100

85 62.7 45.6 84.6

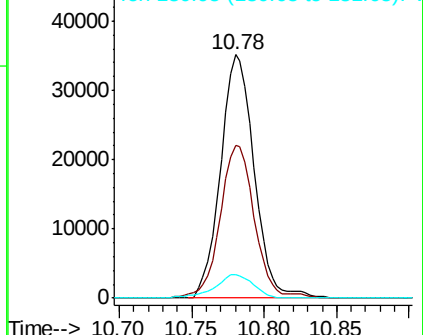
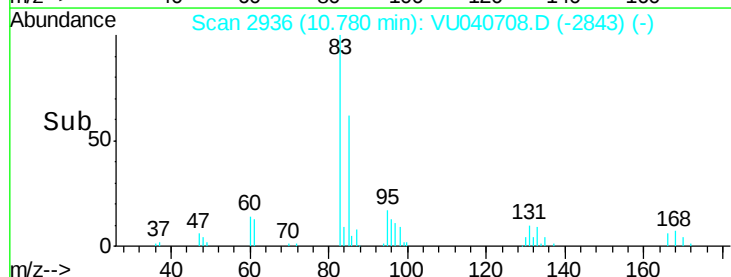
131 9.7 7.1 10.7

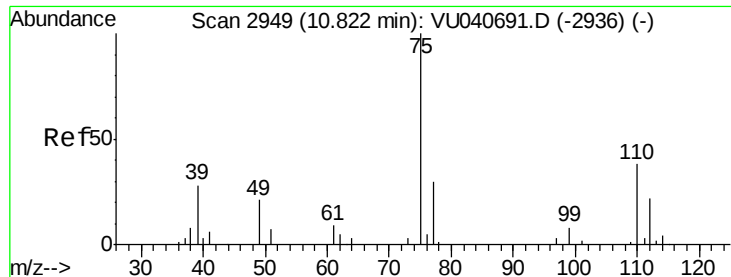


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.204 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

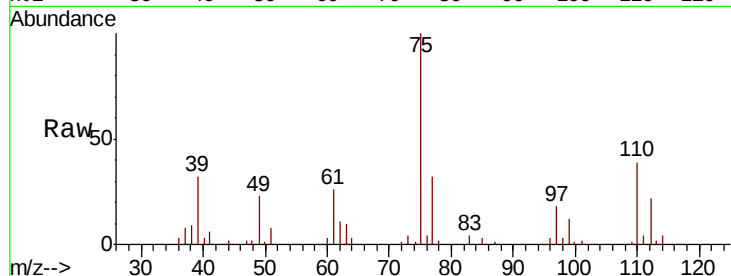
VSTD00510

Tot Ion: 75 Resp: 42352

Ion Ratio Lower Upper

75 100

77 32.5 26.4 39.6

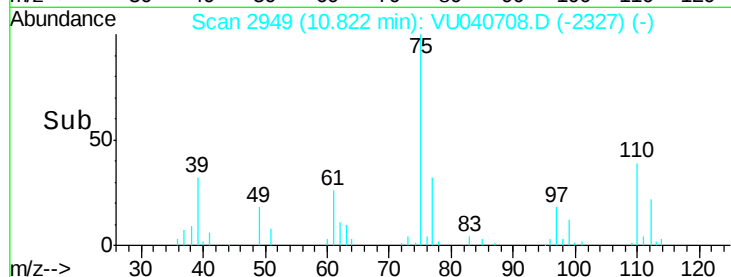


Abundance Ion 75.00 (74.70 to 75.70): VU040691.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040691.D (-2936) (-)

10.82

Time-->



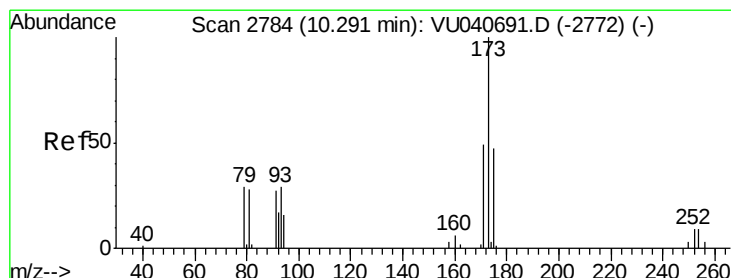
Abundance

Ion 75.00 (74.70 to 75.70): VU040708.D (-2327) (-)

Ion 77.00 (76.70 to 77.70): VU040708.D (-2327) (-)

10.82

Time-->



#61

Bromoform

Concen: 5.127 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

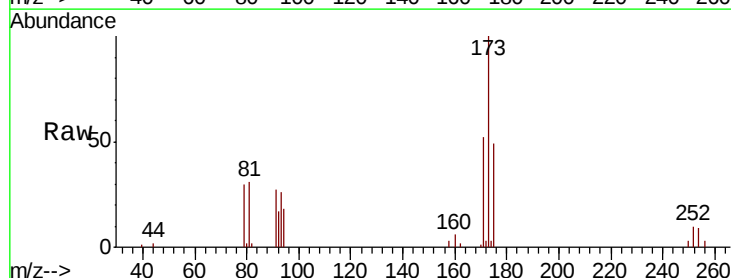
Tgt Ion: 173 Resp: 28960

Ion Ratio Lower Upper

173 100

175 48.6 37.4 56.0

254 9.2 7.4 11.2



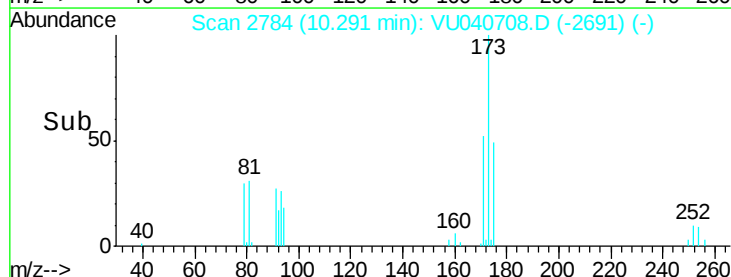
Abundance Ion 172.90 (172.60 to 173.60): VU040691.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU040691.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU040691.D (-2772) (-)

10.29

Time-->



Abundance

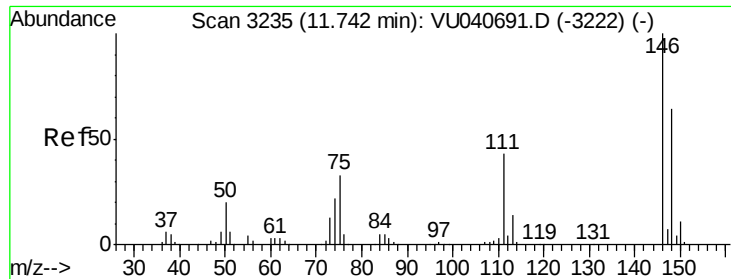
Ion 172.90 (172.60 to 173.60): VU040708.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VU040708.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VU040708.D (-2691) (-)

10.29

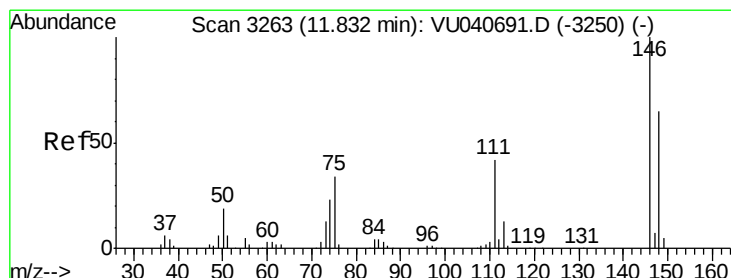
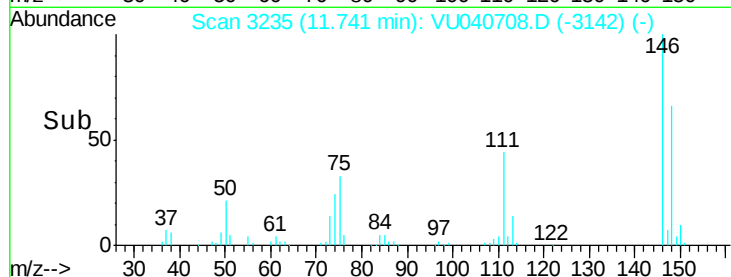
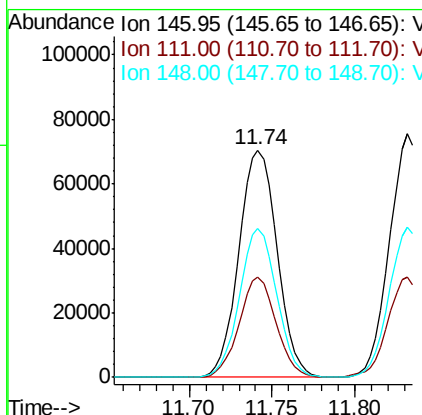
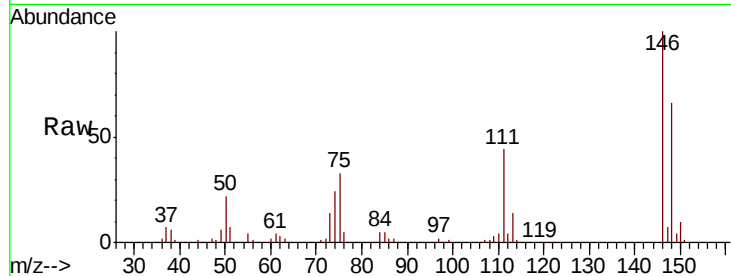
Time-->



#62
 1,3-Dichlorobenzene
 Concen: 5.264 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

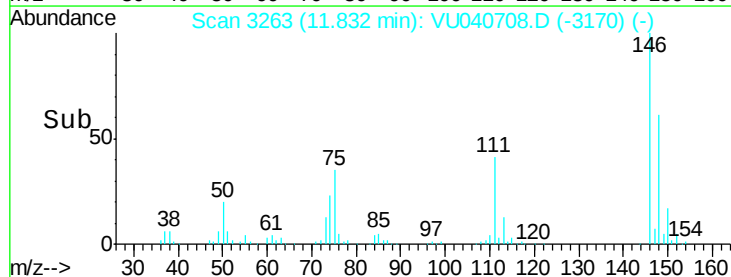
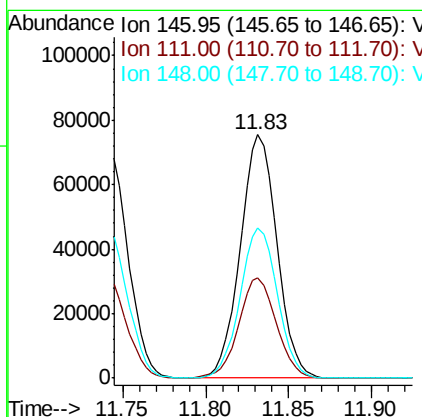
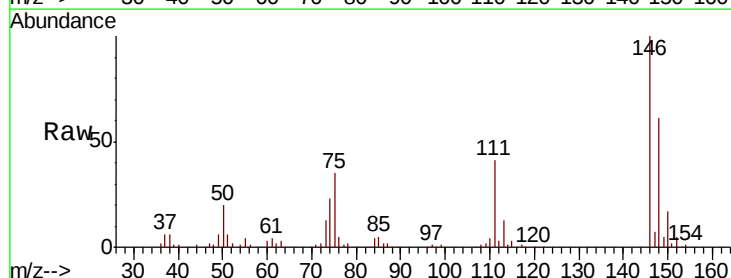
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

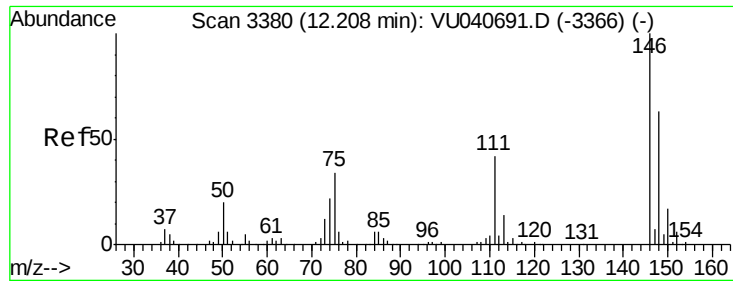
Tot Ion:146 Resp: 113521
 Ion Ratio Lower Upper
 146 100
 111 44.0 28.8 53.6
 148 65.6 44.4 82.4



#63
 1,4-Dichlorobenzene
 Concen: 5.217 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion:146 Resp: 116000
 Ion Ratio Lower Upper
 146 100
 111 41.1 28.4 52.8
 148 61.5 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 5.206 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

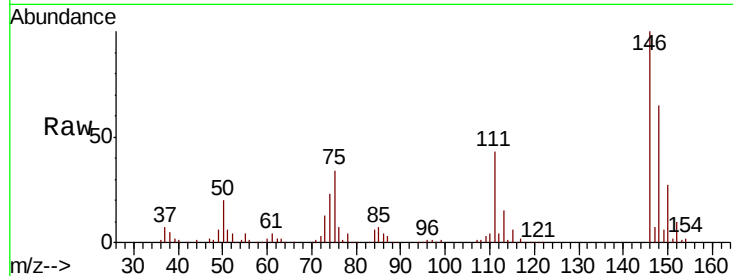
Tot Ion:146 Resp: 109755

Ion Ratio Lower Upper

146 100

111 43.2 34.4 51.6

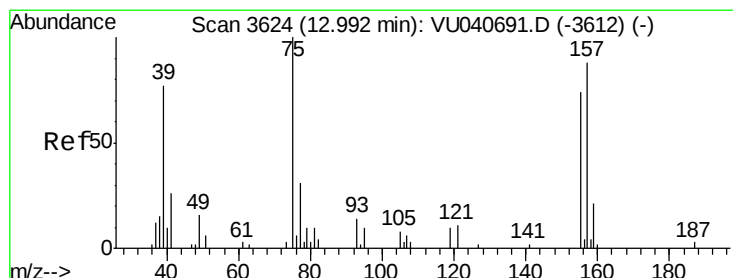
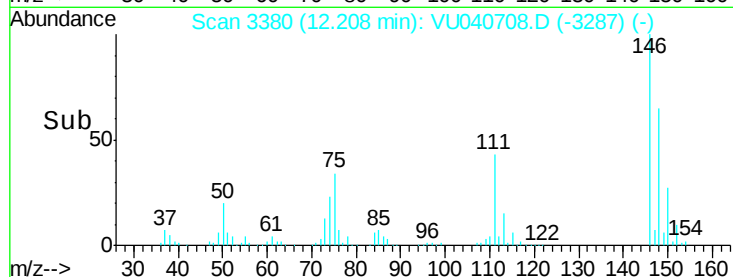
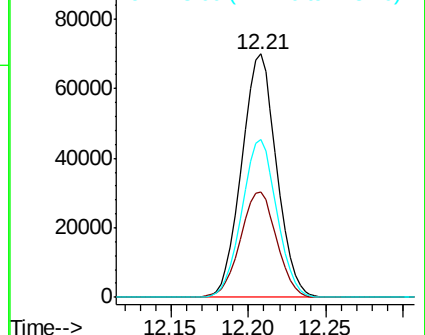
148 64.6 50.0 75.0



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: 5.177 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

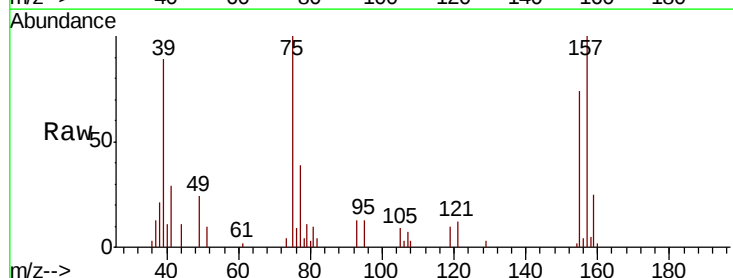
Tgt Ion: 75 Resp: 9557

Ion Ratio Lower Upper

75 100

155 74.0 53.8 80.6

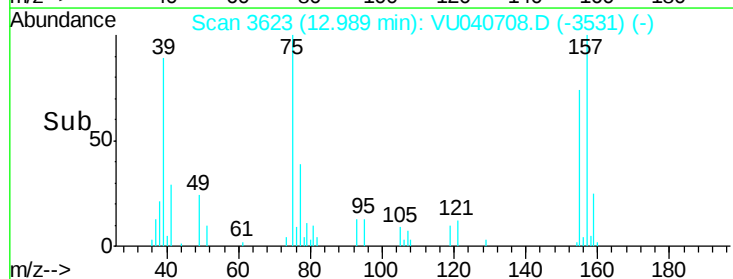
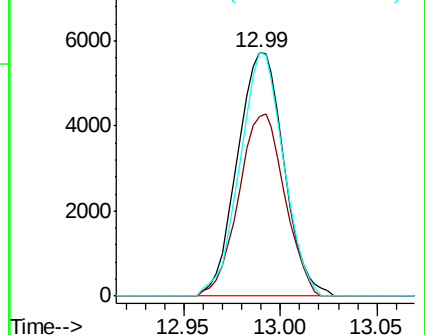
157 100.1 74.6 112.0

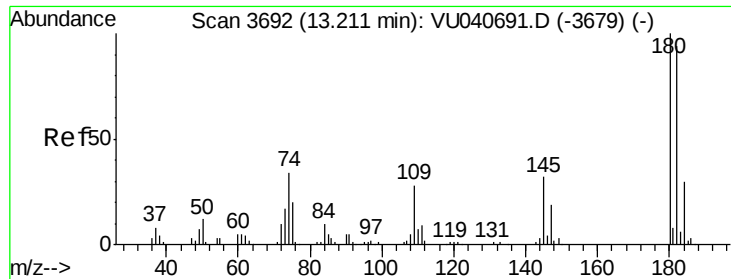


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

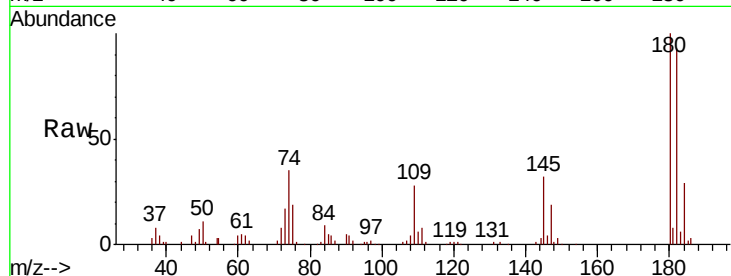




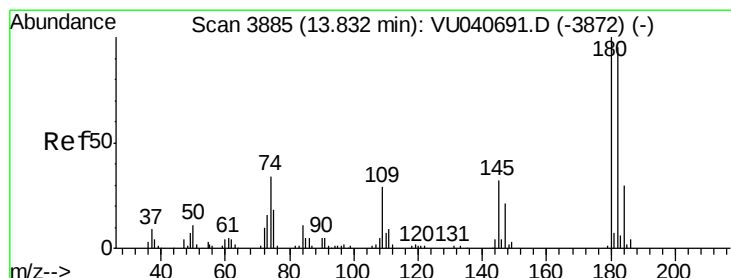
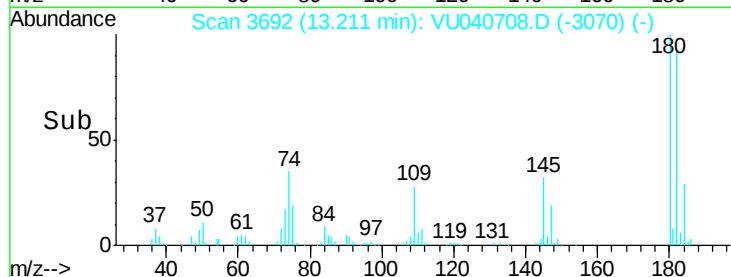
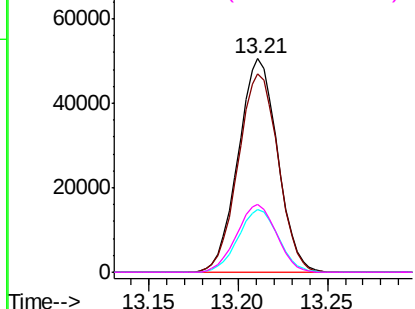
#67
 1,3,5-Trichlorobenzene
 Concen: 5.058 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00510

Tot Ion:180 Resp: 77400
 Ion Ratio Lower Upper
 180 100
 182 94.8 77.0 115.4
 184 30.0 24.5 36.7
 145 32.3 25.9 38.9

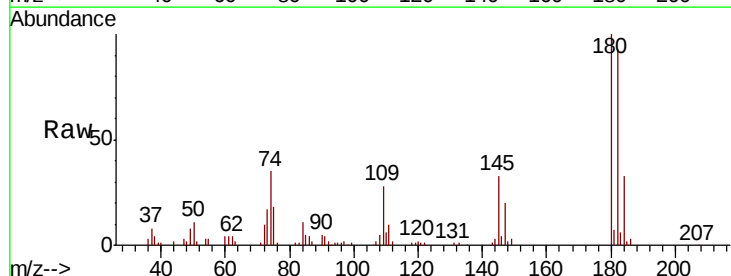


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

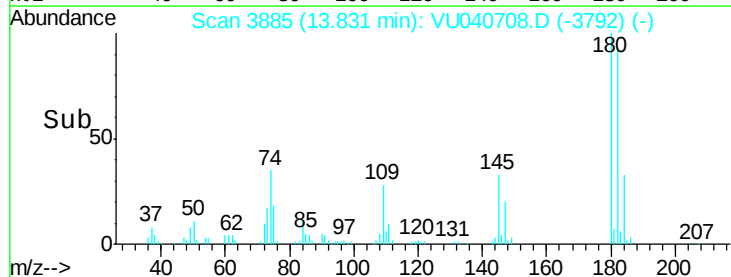
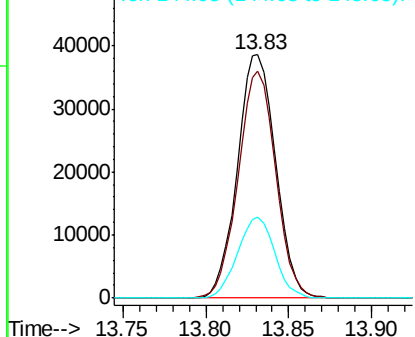


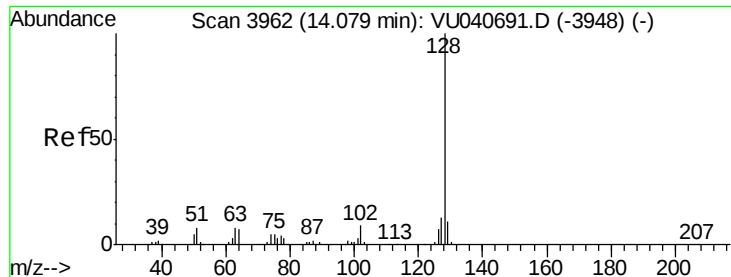
#68
 1,2,4-trichlorobenzene
 Concen: 5.234 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040708.D
 Acq: 14 Oct 2020 18:53

Tgt Ion:180 Resp: 61882
 Ion Ratio Lower Upper
 180 100
 182 91.5 78.8 118.2
 145 32.4 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: 4.715 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD00510

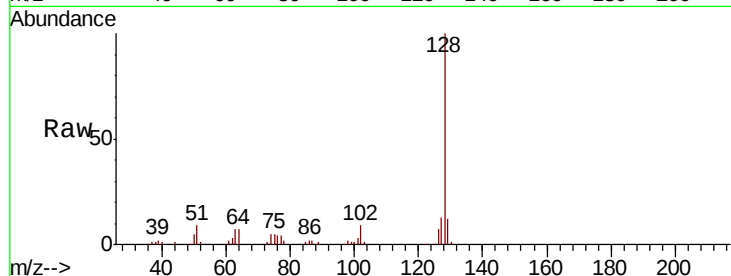
Tot Ion:128 Resp: 91195

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.4

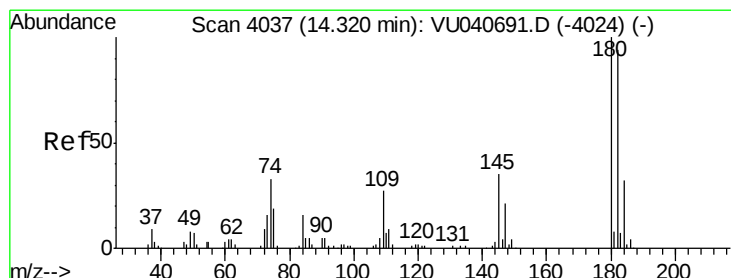
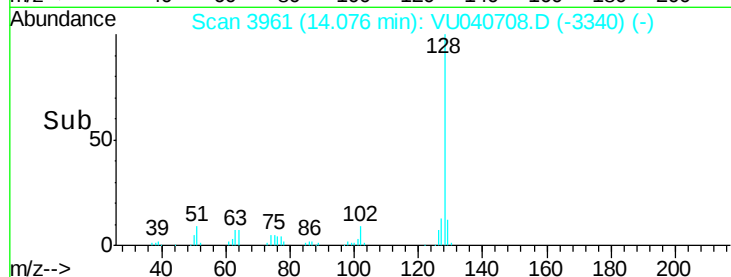
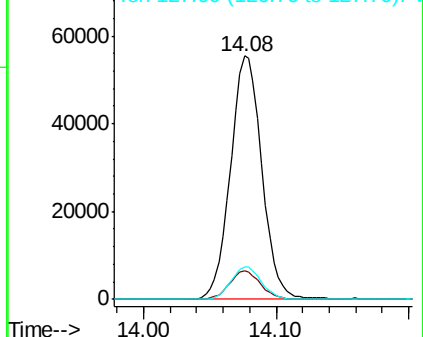
127 13.0 10.2 15.4



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: 5.183 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040708.D

Acq: 14 Oct 2020 18:53

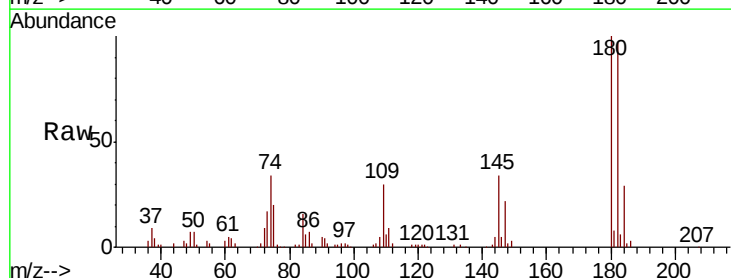
Tgt Ion:180 Resp: 56901

Ion Ratio Lower Upper

180 100

182 97.1 75.8 113.8

145 34.2 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

