

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU053120\
 Data File : VU038457.D
 Acq On : 31 May 2020 08:55
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 01 06:32:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Jun 01 06:27:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	289471	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	279847	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	137750	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	88298	4.71	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.20%
7) Chloroethane-d5	1.93	69	70787	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.40%
11) 1,1-Dichloroethene-d2	2.59	63	177732	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.40%
20) 2-Butanone-d5	4.69	46	339592	59.67	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	119.34%
24) Chloroform-d	5.10	84	180845	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.80%
26) 1,2-Dichloroethane-d4	5.74	65	107062	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.76	84	348213	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.72	67	110267	5.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
41) Toluene-d8	7.92	98	300646	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
43) trans-1,3-Dichloropropene-	8.20	79	45918	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
46) 2-Hexanone-d5	8.66	63	280360	61.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	122.90%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	102756	5.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	119739	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	104208	4.568	ug/L 96
3) Chloromethane	1.53	50	102556	4.895	ug/L 99
5) Vinyl chloride	1.62	62	111447	4.965	ug/L 98
6) Bromomethane	1.88	94	55568	5.099	ug/L 98
8) Chloroethane	1.95	64	67245	4.999	ug/L 94
9) Trichlorofluoromethane	2.16	101	142683	4.791	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	78033	4.449	ug/L 99
12) 1,1-Dichloroethene	2.60	96	87112	4.886	ug/L 98
13) Acetone	2.69	43	216638	58.164	ug/L 97
14) Carbon disulfide	2.82	76	279471	4.620	ug/L 100
15) Methyl Acetate	2.99	43	51610	5.656	ug/L 95
16) Methylene chloride	3.08	84	105543	5.232	ug/L 99
17) Methyl tert-butyl Ether	3.40	73	255203	5.460	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	92588	4.819	ug/L 96
19) 1,1-Dichloroethane	3.91	63	179550	5.222	ug/L 98
21) 2-Butanone	4.77	43	384024	61.300	ug/L 96
22) cis-1,2-Dichloroethene	4.71	96	106036	5.126	ug/L 97

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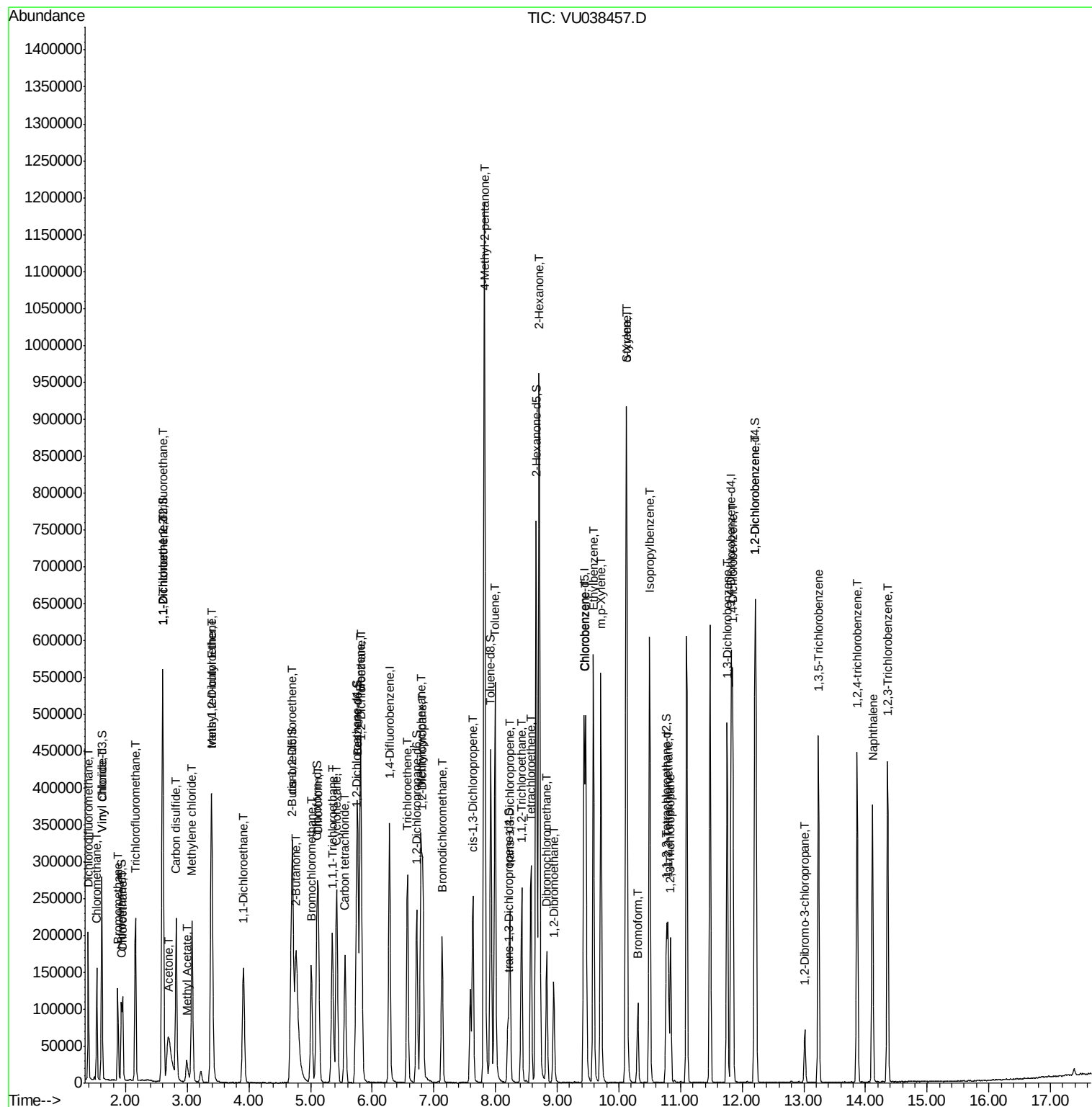
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	49112	5.275	ug/L	91
25) Chloroform	5.13	83	182285	5.219	ug/L	98
27) 1,2-Dichloroethane	5.83	62	132149	5.374	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	149194	5.038	ug/L	100
30) Cyclohexane	5.42	56	132586	4.270	ug/L	98
31) Carbon tetrachloride	5.56	117	117859	4.781	ug/L	100
33) Benzene	5.81	78	397124	5.089	ug/L	100
34) Trichloroethene	6.57	95	96189	4.749	ug/L	97
35) Methylcyclohexane	6.79	83	128207	4.088	ug/L	98
37) 1,2-Dichloropropane	6.82	63	102741	5.232	ug/L	99
38) Bromodichloromethane	7.13	83	131161	5.378	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	146219	5.038	ug/L	96
40) 4-Methyl-2-pentanone	7.82	43	811857	57.810	ug/L	99
42) Toluene	7.99	91	405474	4.954	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	129064	5.035	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	82882	5.595	ug/L	97
47) Tetrachloroethene	8.57	164	65393	4.444	ug/L	98
48) 2-Hexanone	8.71	43	629461	59.186	ug/L	99
49) Dibromochloromethane	8.83	129	88522	5.536	ug/L	97
50) 1,2-Dibromoethane	8.94	107	77815	5.485	ug/L	99
51) Chlorobenzene	9.47	112	253382	4.800	ug/L	99
52) Ethylbenzene	9.59	91	418861	4.600	ug/L	100
53) m,p-Xylene	9.71	106	162301	4.634	ug/L	96
54) o-Xylene	10.12	106	158977	4.729	ug/L	100
55) Styrene	10.13	104	280104	4.908	ug/L	100
56) Isopropylbenzene	10.50	105	393634	4.448	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	104106	5.530	ug/L	97
59) 1,2,3-Trichloropropane	10.84	75	81249	5.543	ug/L	98
61) Bromoform	10.31	173	48621	5.666	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	195835	4.839	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	195520	4.764	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	194022	5.048	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	17917	5.758	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	140103	4.640	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	130196	4.658	ug/L	100
69) Naphthalene	14.11	128	294478	5.294	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	127937	5.031	ug/L	98

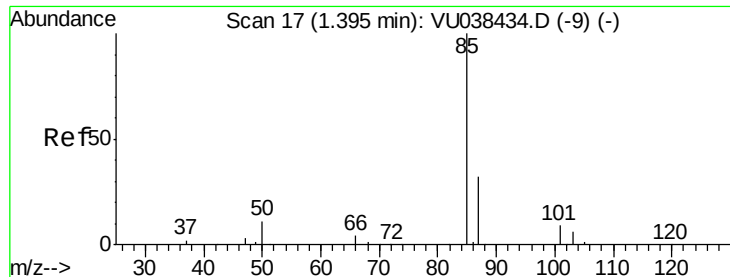
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.568 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

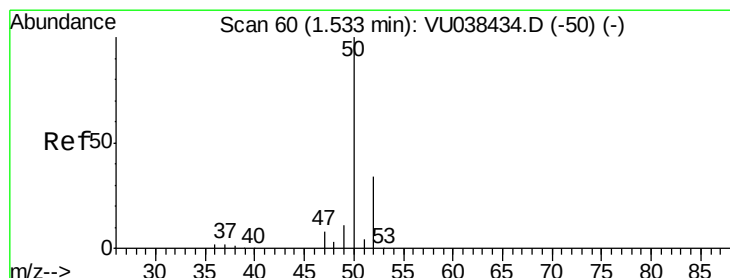
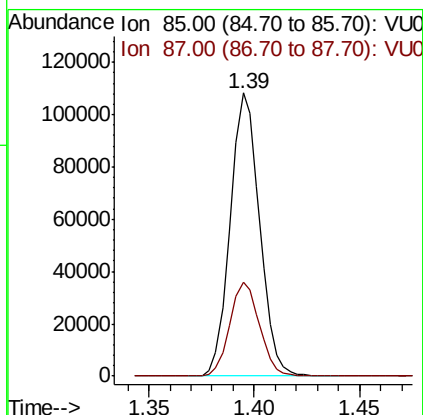
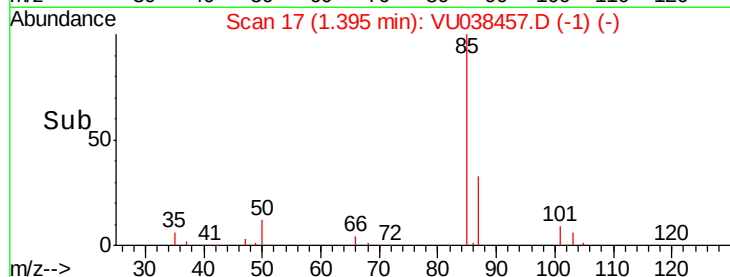
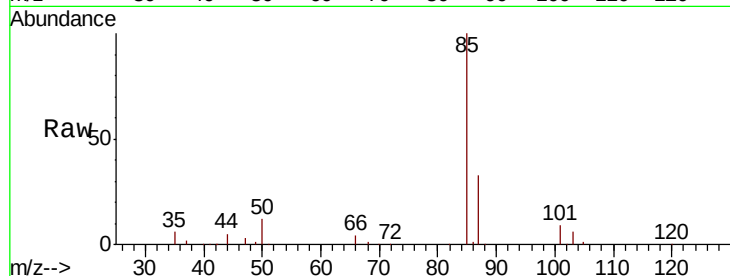
ClientSampleId :

Tot Ion: 85 Resp: 104208

Ion Ratio Lower Upper

85 100

87 33.5 25.2 37.8



#3

Chloromethane

Concen: 4.895 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038457.D

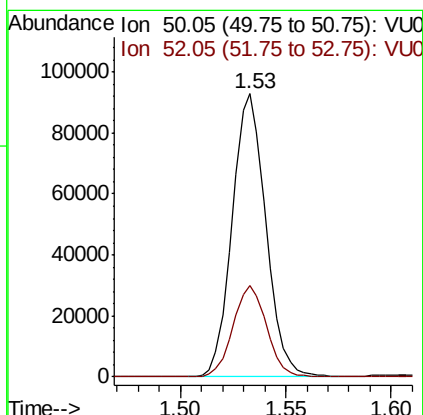
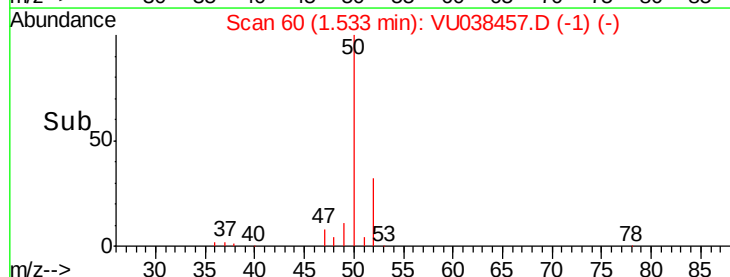
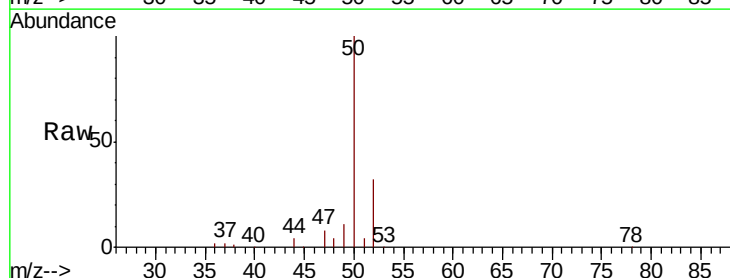
Acq: 31 May 2020 08:55

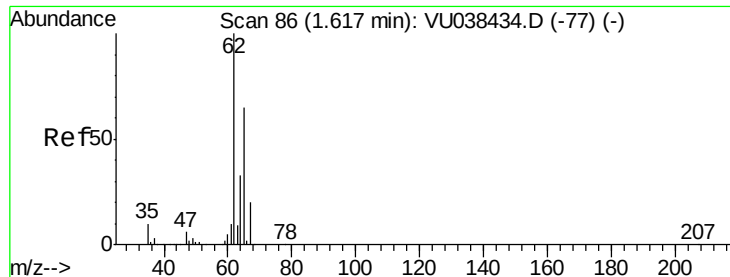
Tgt Ion: 50 Resp: 102556

Ion Ratio Lower Upper

50 100

52 32.1 22.9 42.5





#5

Vinyl chloride

Concen: 4.965 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

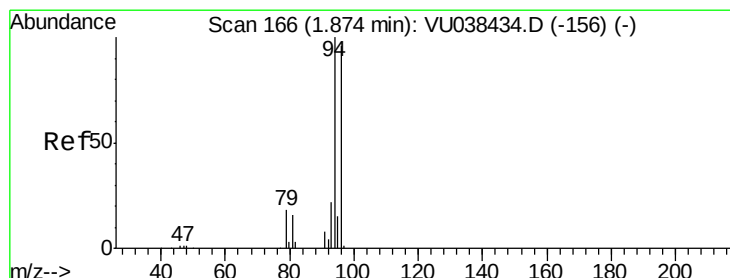
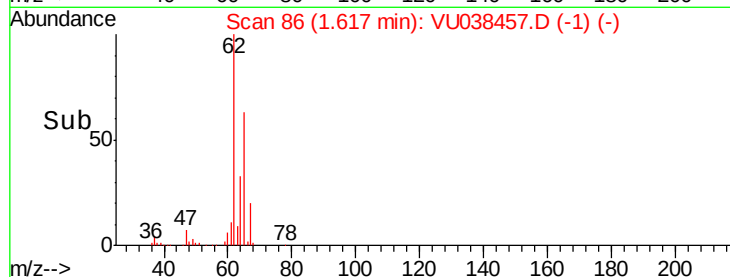
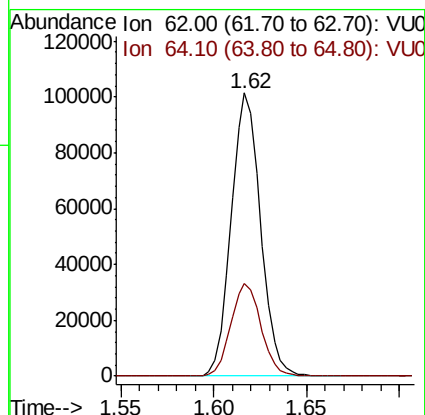
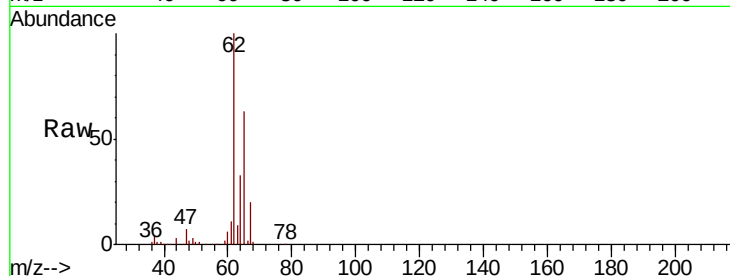
ClientSampled :

Tot Ion: 62 Resp: 111447

Ion Ratio Lower Upper

62 100

64 32.7 23.7 43.9



#6

Bromomethane

Concen: 5.099 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU038457.D

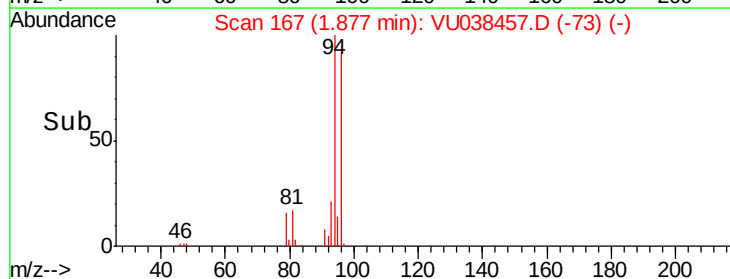
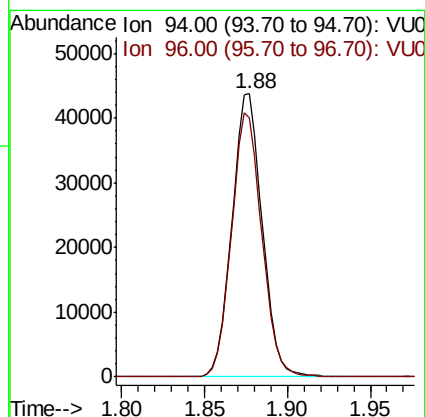
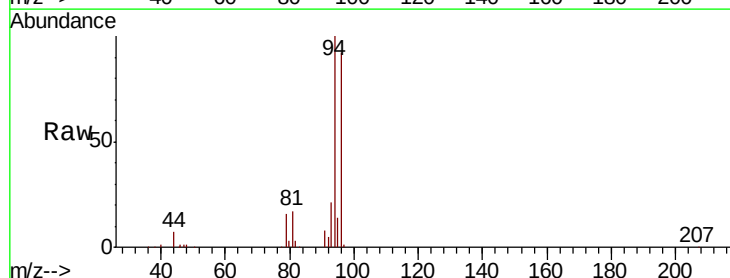
Acq: 31 May 2020 08:55

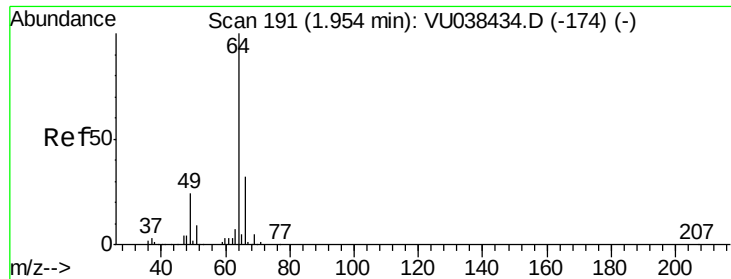
Tgt Ion: 94 Resp: 55568

Ion Ratio Lower Upper

94 100

96 91.7 65.5 121.6

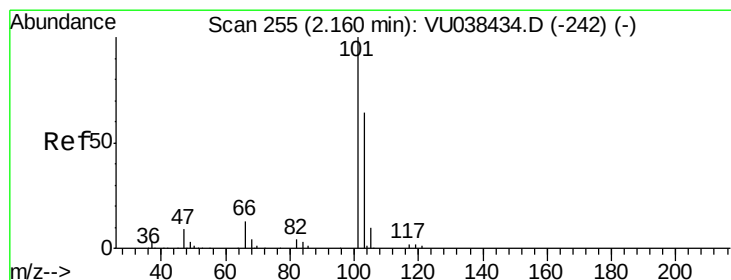
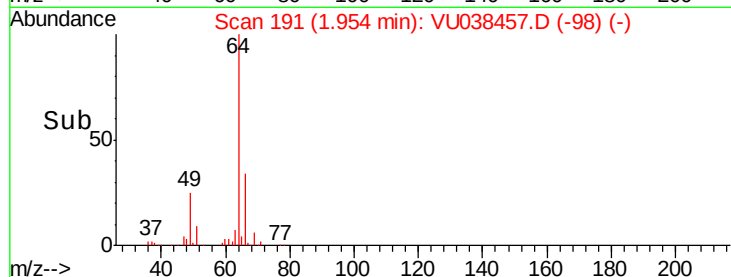
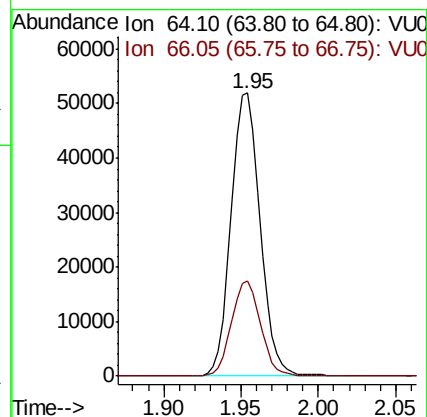
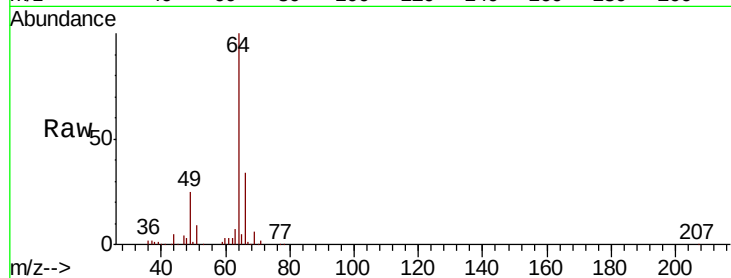




#8
Chloroethane
Concen: 4.999 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

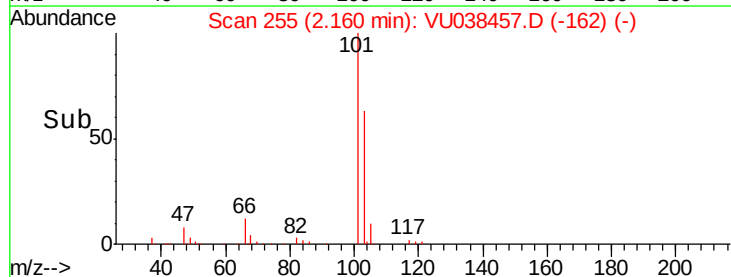
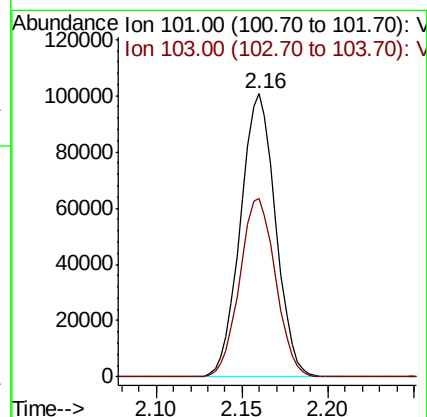
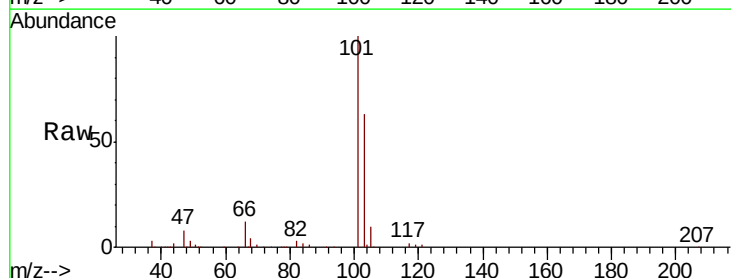
Instrument :
MSVOA_U
ClientSampled :

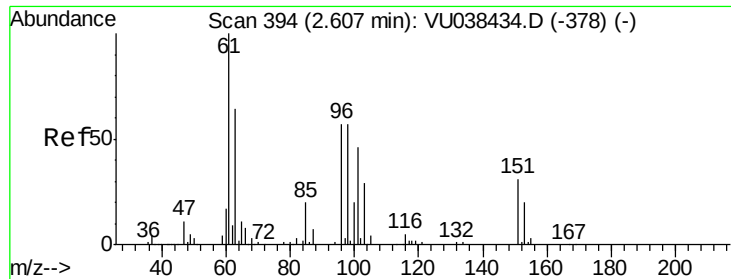
Tot Ion: 64 Resp: 67245
Ion Ratio Lower Upper
64 100
66 33.7 21.5 39.9



#9
Trichlorofluoromethane
Concen: 4.791 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion: 101 Resp: 142683
Ion Ratio Lower Upper
101 100
103 64.4 51.1 76.7





#10

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

Concen: 4.449 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

ClientSampleId :

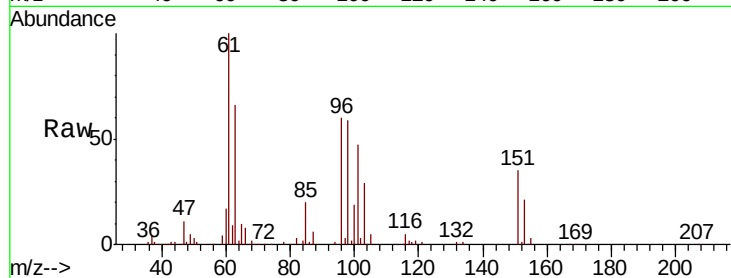
Tot Ion:101 Resp: 78033

Ion Ratio Lower Upper

101 100

85 42.4 34.0 51.0

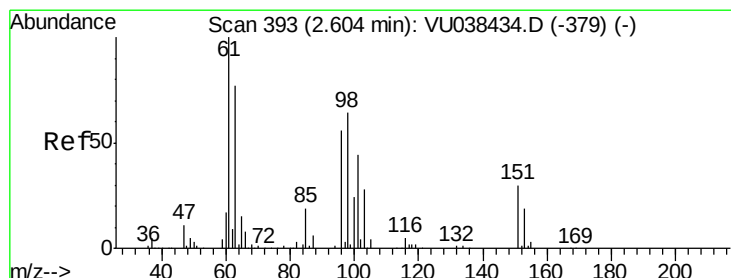
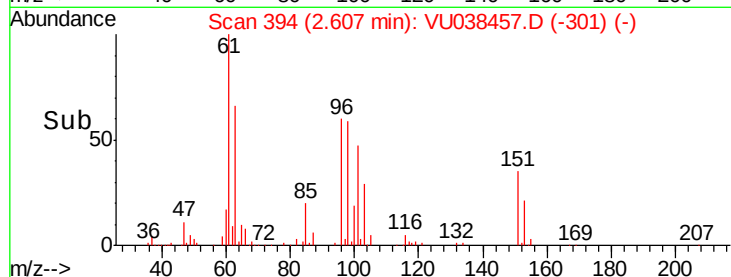
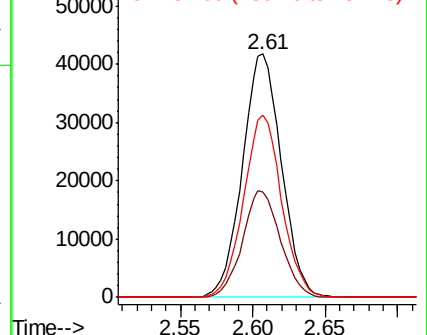
151 73.0 56.9 85.3



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: 4.886 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

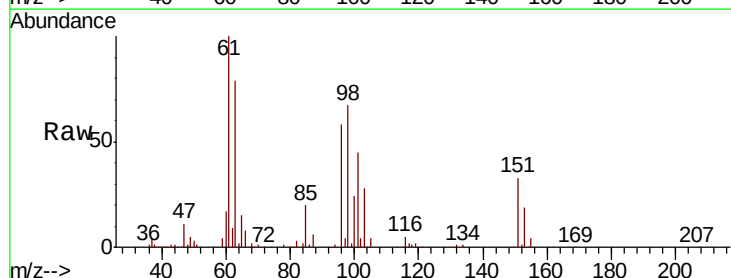
Tgt Ion: 96 Resp: 87112

Ion Ratio Lower Upper

96 100

61 171.3 119.9 222.7

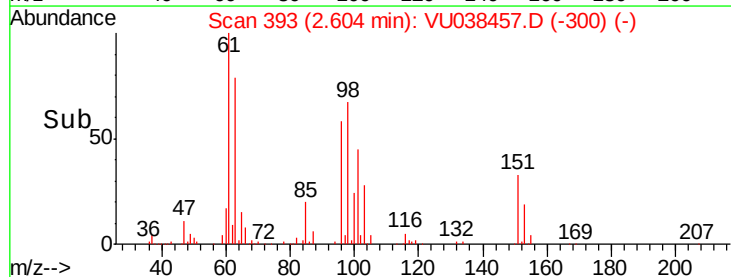
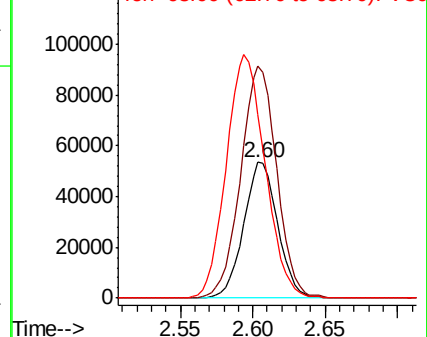
63 135.0 89.9 167.0

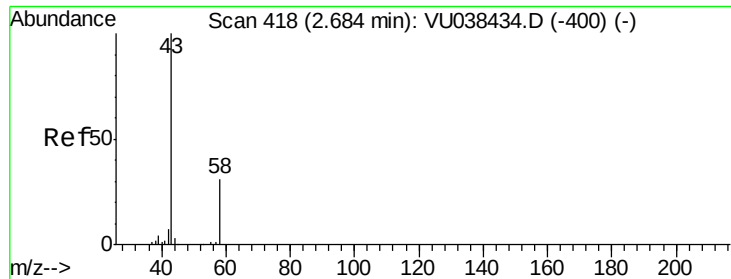


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 58.164 ug/L

RT: 2.69 min Scan# 420

Delta R.T. 0.01 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

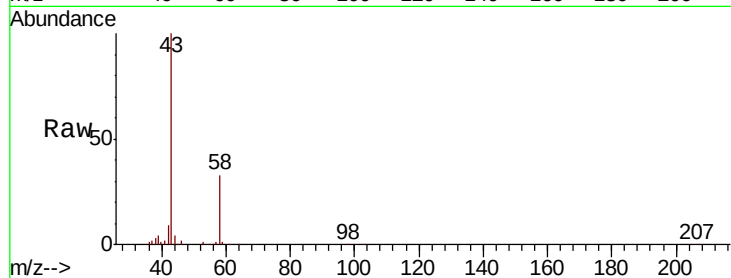
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 216638

Ion Ratio Lower Upper

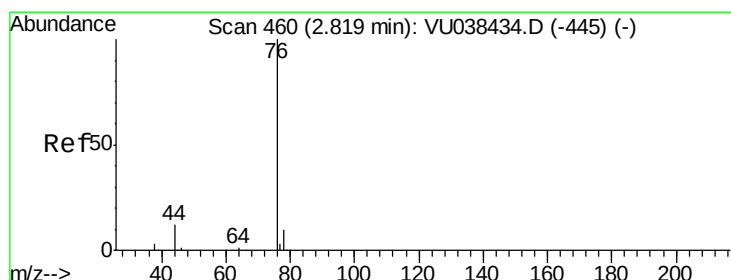
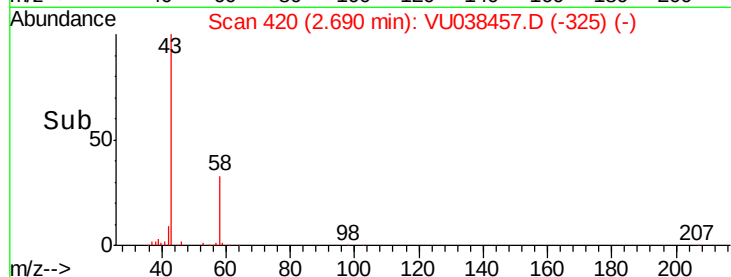
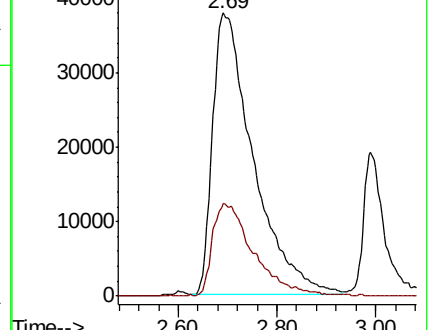
43 100

58 31.4 0.0 65.6



Abundance Ion 43.05 (42.75 to 43.75): VU038434.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU038434.D (-400) (-)



#14

Carbon disulfide

Concen: 4.620 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU038457.D

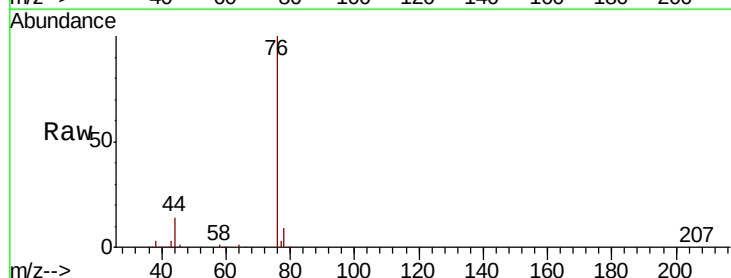
Acq: 31 May 2020 08:55

Tgt Ion: 76 Resp: 279471

Ion Ratio Lower Upper

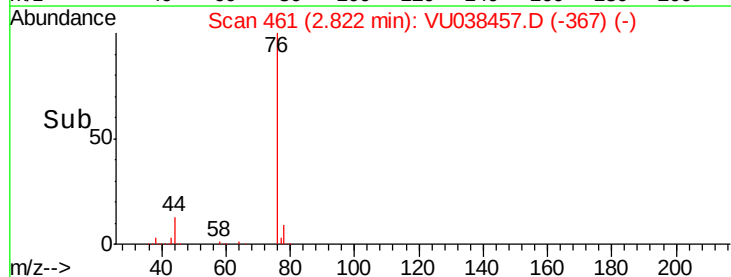
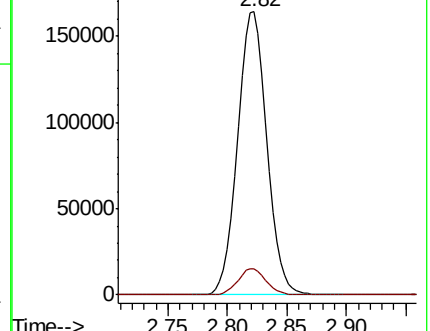
76 100

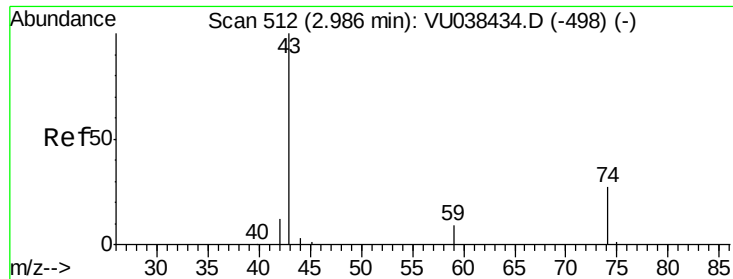
78 9.2 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU038434.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU038434.D (-445) (-)

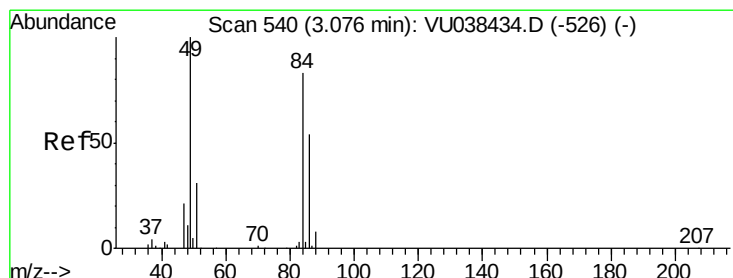
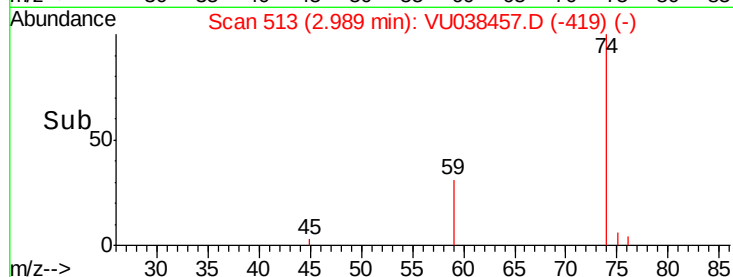
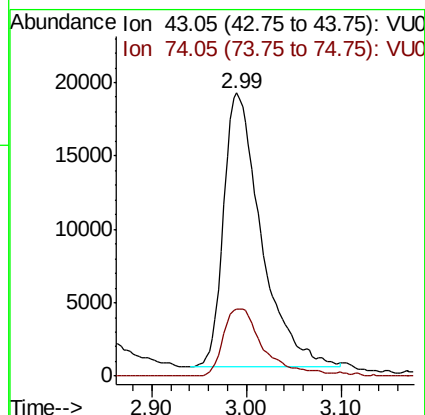
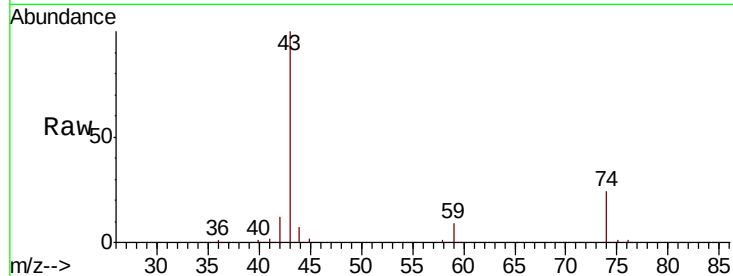




#15
Methyl Acetate
Concen: 5.656 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

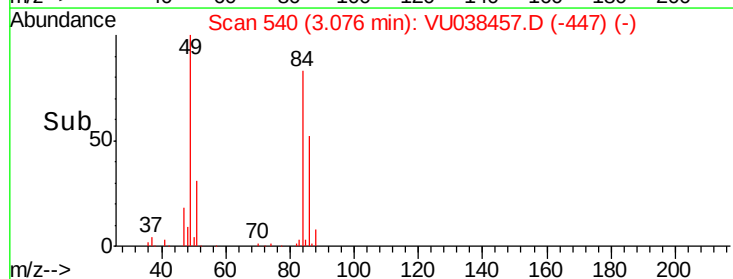
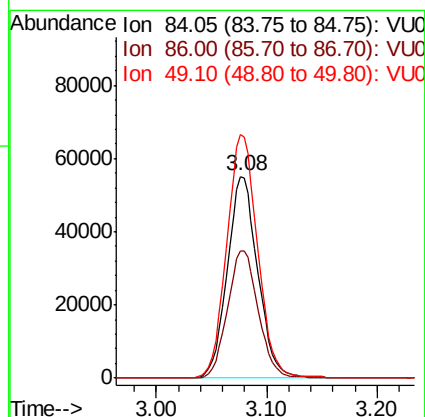
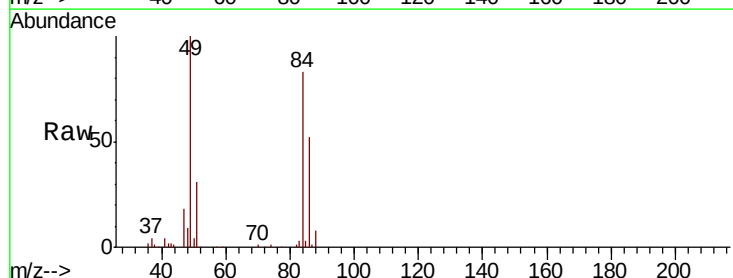
Instrument :
MSVOA_U
ClientSampled :

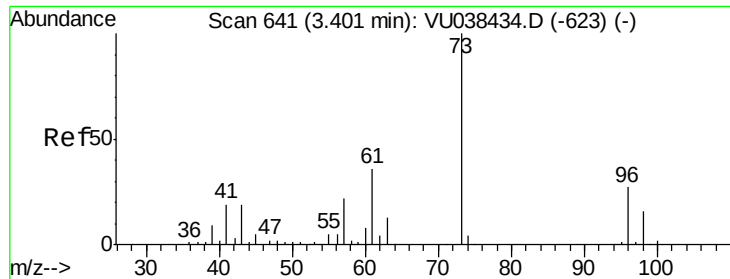
Tot Ion: 43 Resp: 51610
Ion Ratio Lower Upper
43 100
74 26.3 19.2 28.8



#16
Methylene chloride
Concen: 5.232 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion: 84 Resp: 105543
Ion Ratio Lower Upper
84 100
86 63.2 45.0 83.6
49 120.7 85.5 158.9

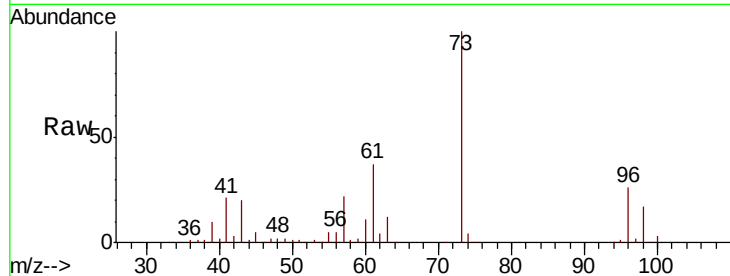




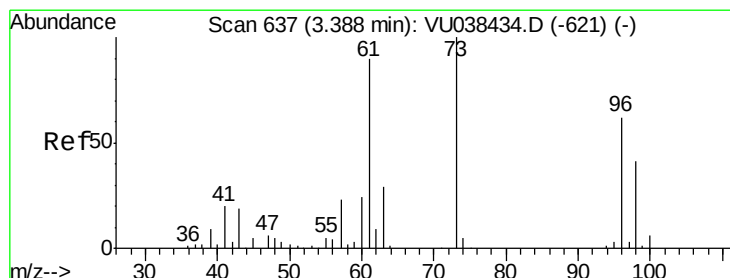
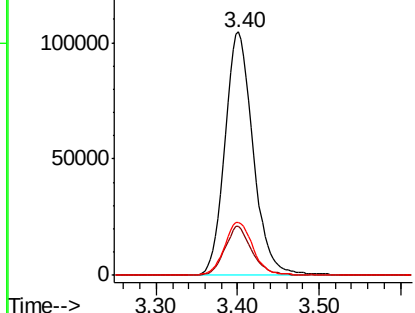
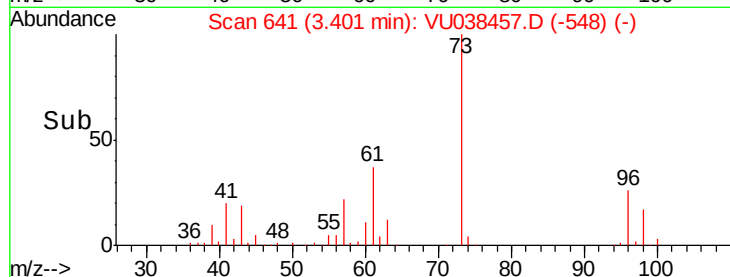
#17
Methyl tert-butyl Ether
Concen: 5.460 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 255203
Ion Ratio Lower Upper
73 100
43 18.9 15.5 23.3
57 22.0 17.8 26.6

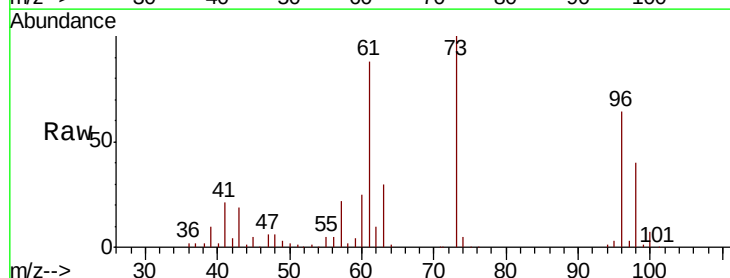


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

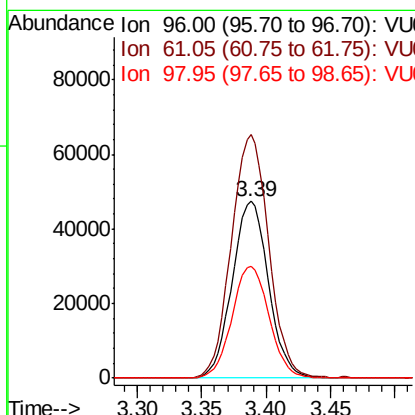
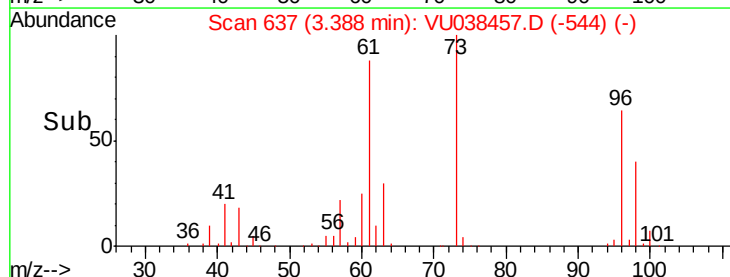


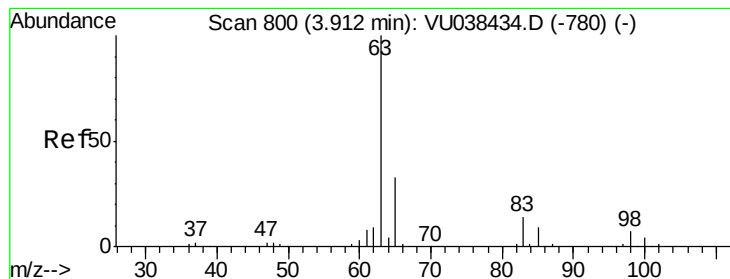
#18
trans-1,2-Dichloroethene
Concen: 4.819 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion: 96 Resp: 92588
Ion Ratio Lower Upper
96 100
61 137.8 100.2 186.0
98 63.4 42.8 79.4



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: 5.222 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

ClientSampleId :

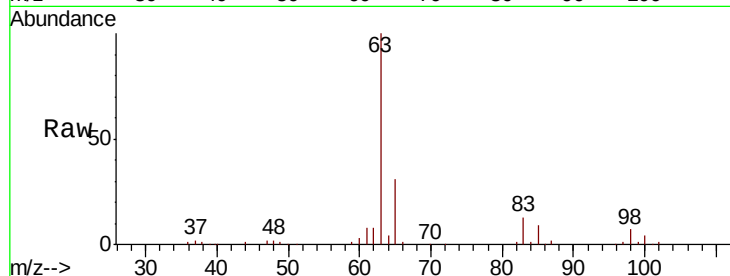
Tot Ion: 63 Resp: 179550

Ion Ratio Lower Upper

63 100

65 31.3 22.3 41.5

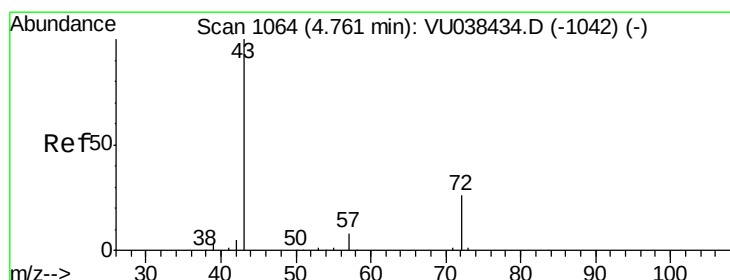
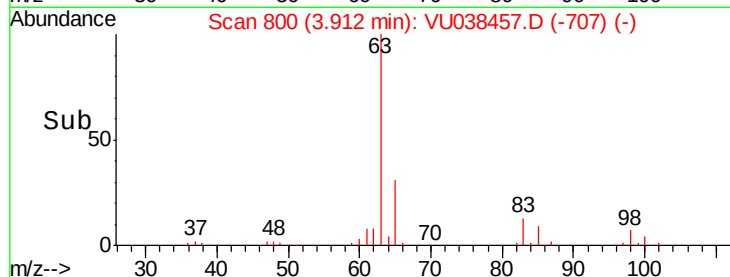
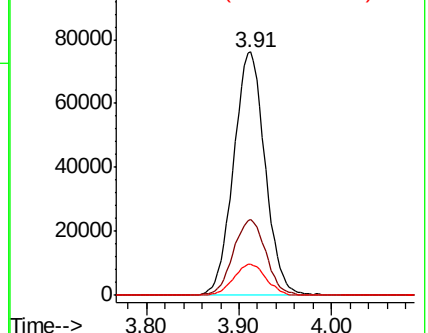
83 12.8 10.4 19.4



Abundance Ion 63.10 (62.80 to 63.80): VU038434.D (-780) (-)

Ion 65.10 (64.80 to 65.80): VU038434.D (-780) (-)

Ion 83.05 (82.75 to 83.75): VU038434.D (-780) (-)



#21

2-Butanone

Concen: 61.300 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VU038457.D

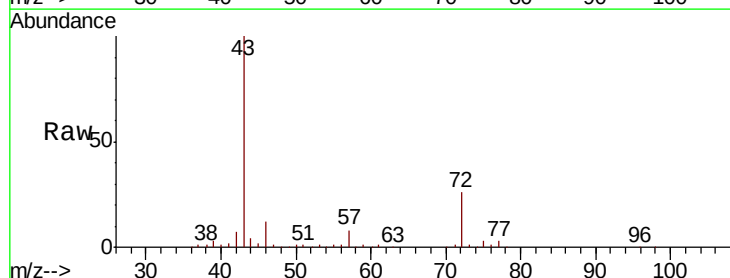
Acq: 31 May 2020 08:55

Tgt Ion: 43 Resp: 384024

Ion Ratio Lower Upper

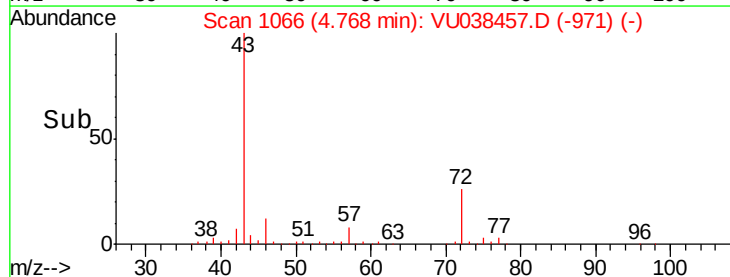
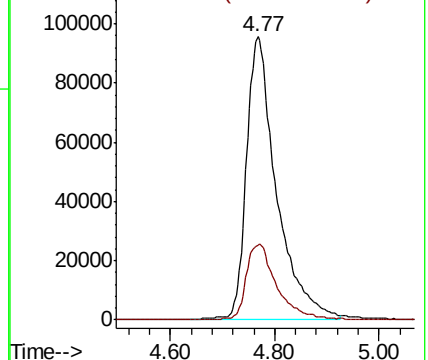
43 100

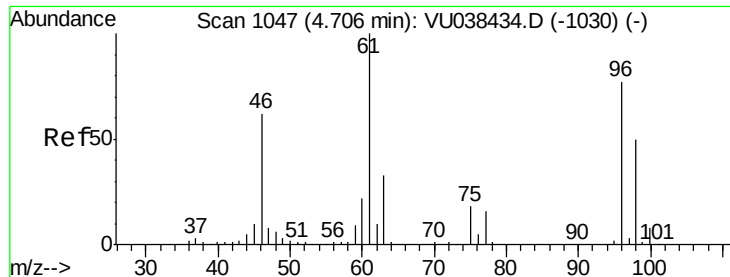
72 27.1 12.6 37.8



Abundance Ion 43.05 (42.75 to 43.75): VU038434.D (-1042) (-)

Ion 72.10 (71.80 to 72.80): VU038434.D (-1042) (-)

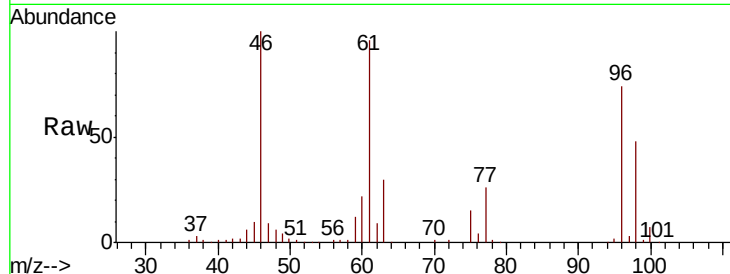




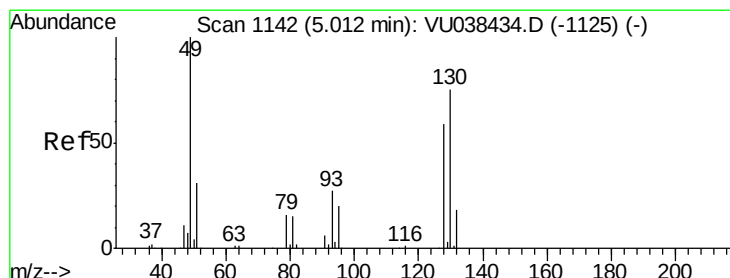
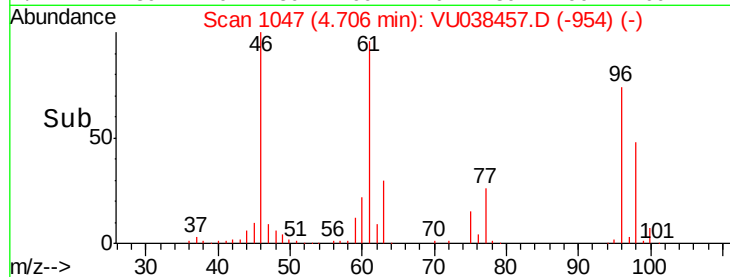
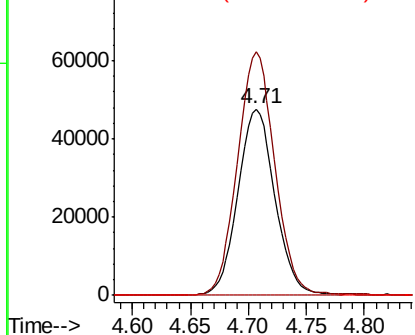
#22
 cis-1,2-Dichloroethene
 Concen: 5.126 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 106036
 Ion Ratio Lower Upper
 96 100
 61 130.8 94.0 174.6
 68 0.0 0.0 0.0

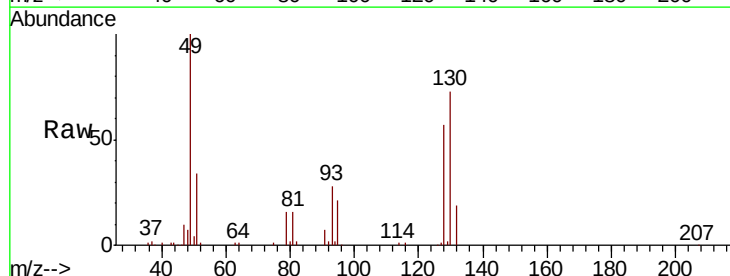


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

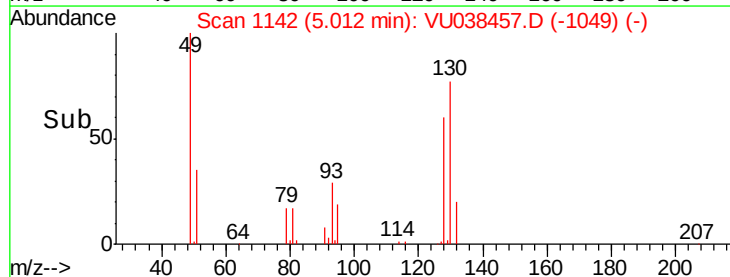
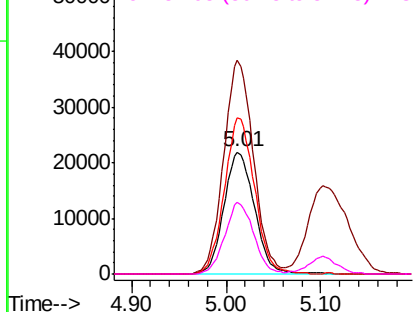


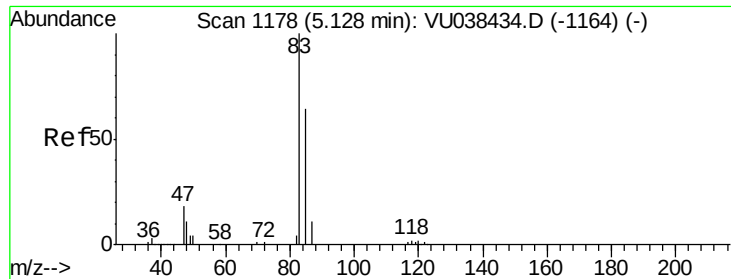
#23
 Bromochloromethane
 Concen: 5.275 ug/L
 RT: 5.01 min Scan# 1142
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion: 128 Resp: 49112
 Ion Ratio Lower Upper
 128 100
 49 175.2 111.9 207.7
 130 128.6 86.5 160.7
 51 59.3 41.7 62.5



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

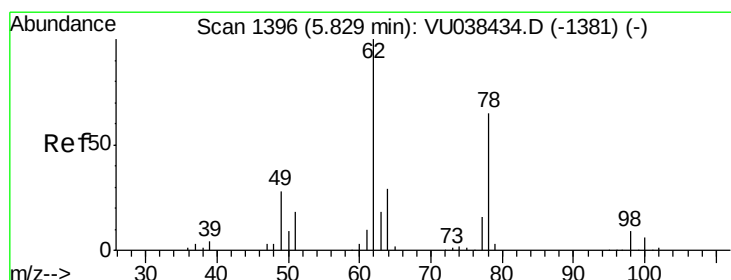
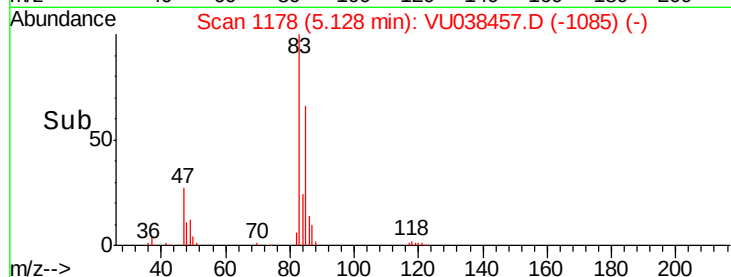
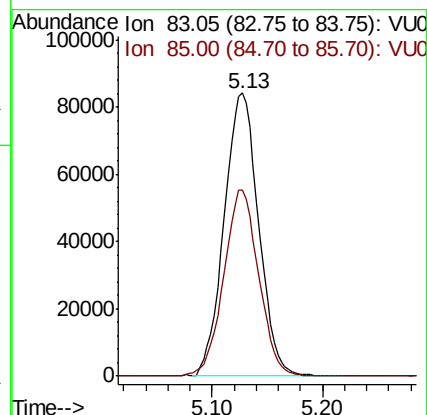
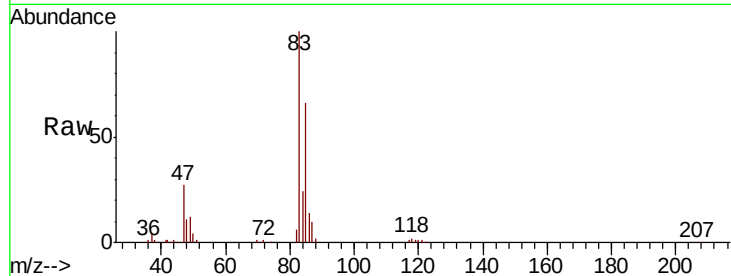




#25
Chloroform
Concen: 5.219 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

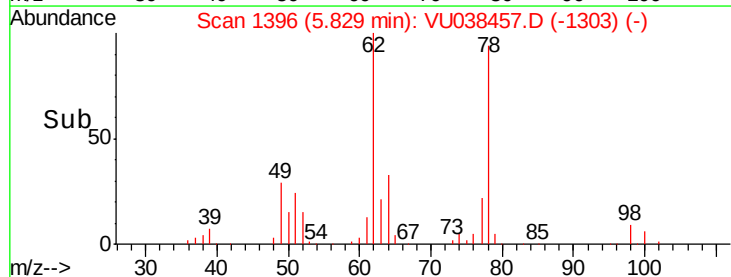
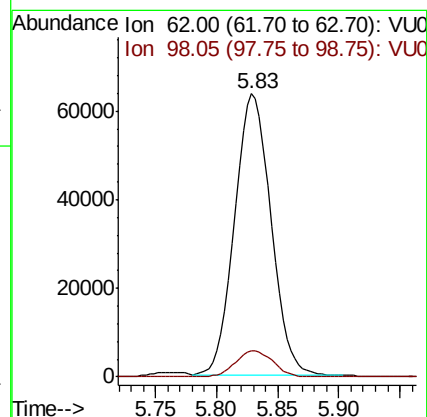
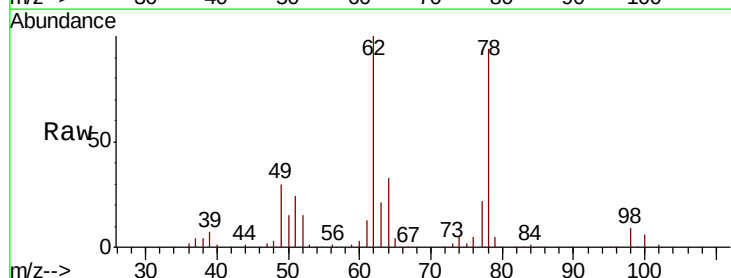
Instrument :
MSVOA_U
ClientSampled :

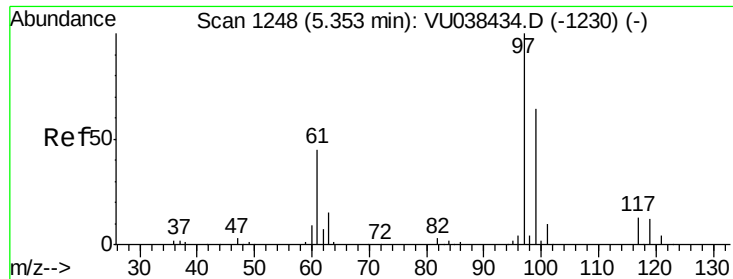
Tot Ion: 83 Resp: 182285
Ion Ratio Lower Upper
83 100
85 65.9 44.9 83.5



#27
1,2-Dichloroethane
Concen: 5.374 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion: 62 Resp: 132149
Ion Ratio Lower Upper
62 100
98 9.4 7.4 11.2

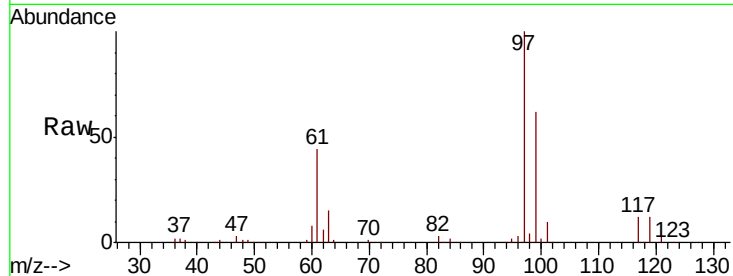




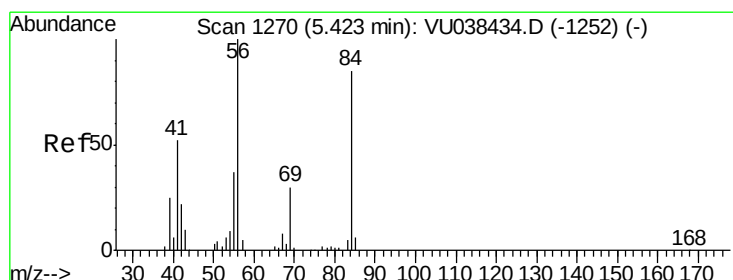
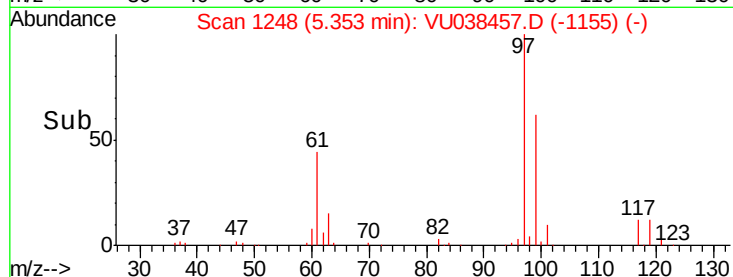
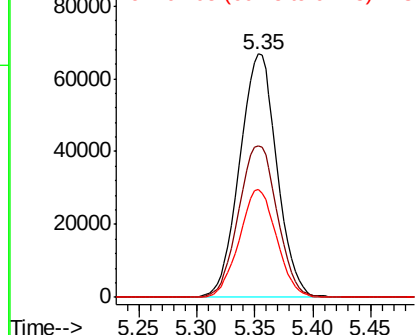
#29
 1,1,1-Trichloroethane
 Concen: 5.038 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 149194
 Ion Ratio Lower Upper
 97 100
 99 64.8 52.2 78.2
 61 44.3 35.4 53.2

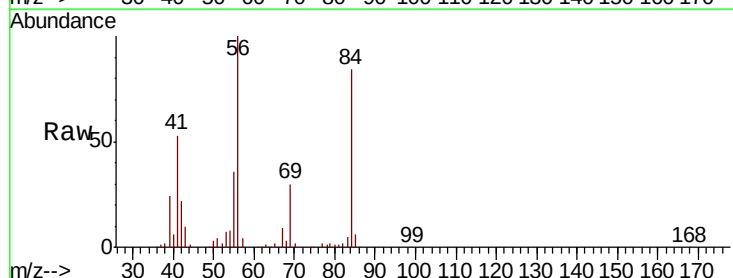


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

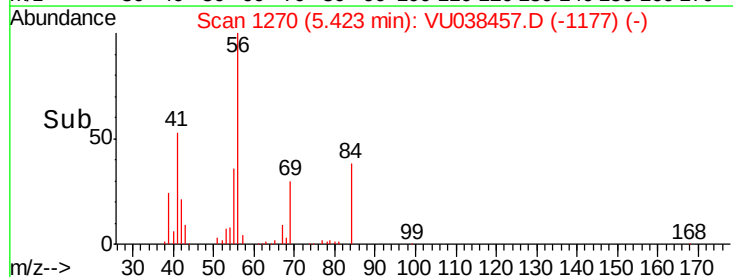
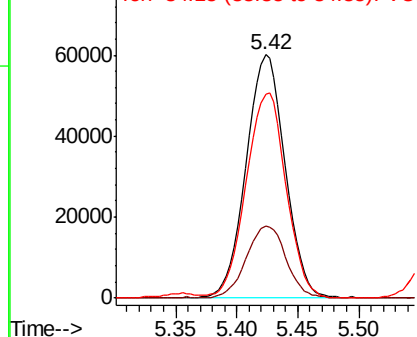


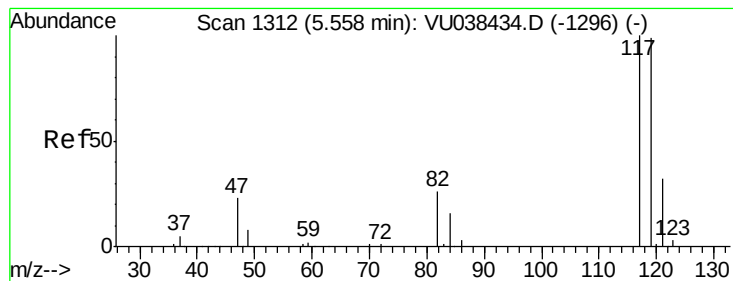
#30
 Cyclohexane
 Concen: 4.270 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion: 56 Resp: 132586
 Ion Ratio Lower Upper
 56 100
 69 30.3 24.2 36.4
 84 86.5 70.8 106.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.781 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

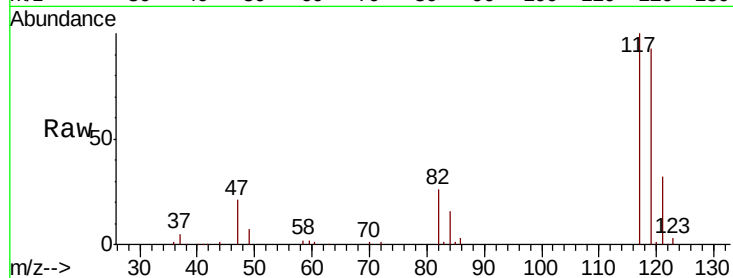
ClientSampleId :

Tot Ion:117 Resp: 117859

Ion Ratio Lower Upper

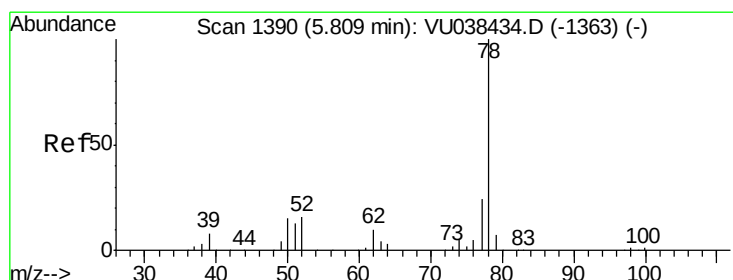
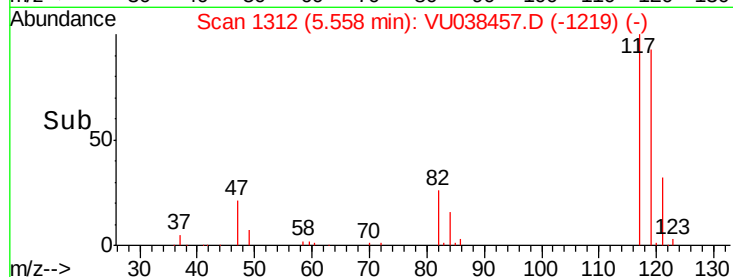
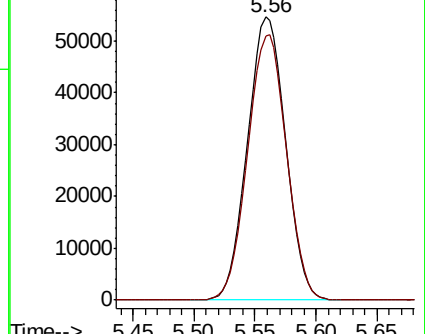
117 100

119 95.5 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.089 ug/L

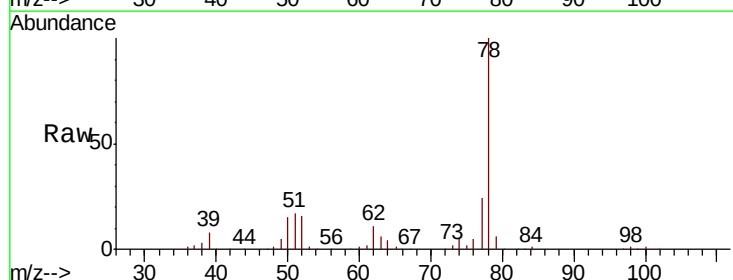
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

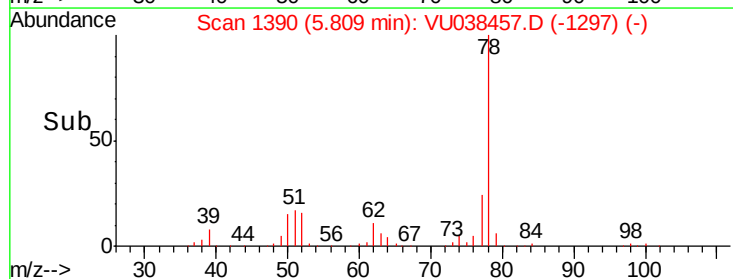
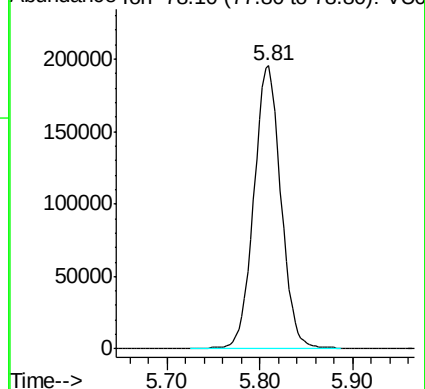
Lab File: VU038457.D

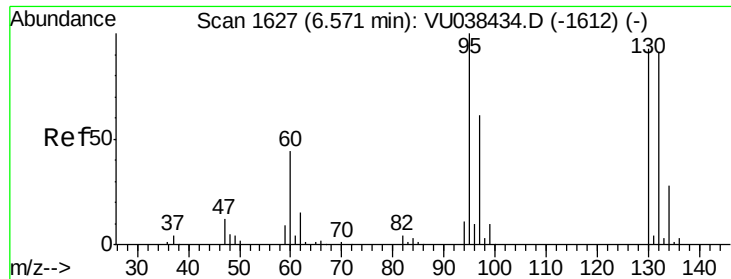
Acq: 31 May 2020 08:55

Tgt Ion: 78 Resp: 397124



Abundance Ion 78.10 (77.80 to 78.80): VU0

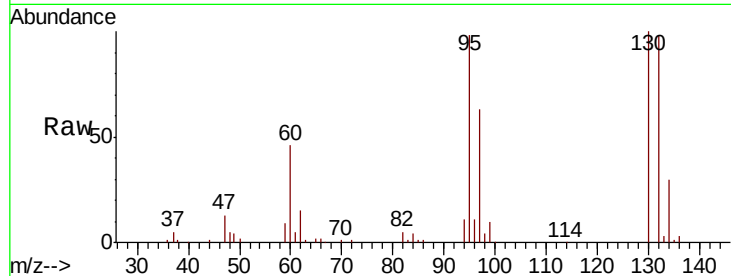




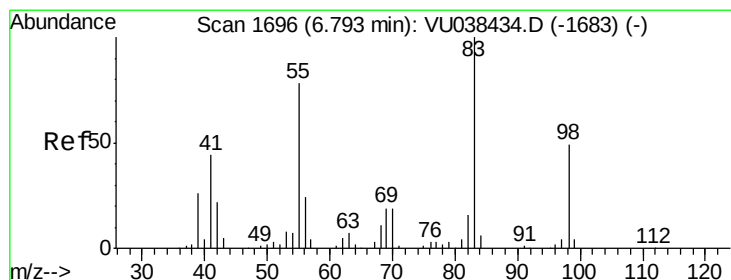
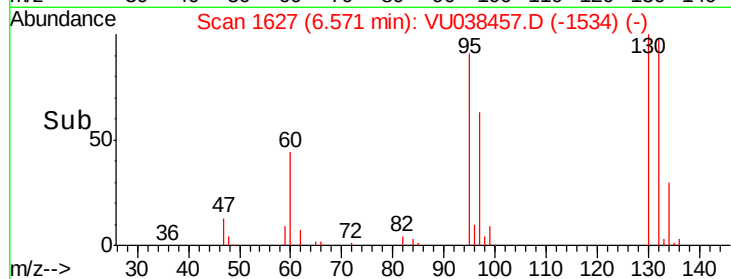
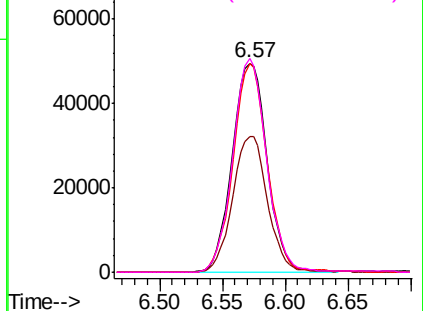
#34
 Trichloroethene
 Concen: 4.749 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 96189
 Ion Ratio Lower Upper
 95 100
 97 64.8 46.8 87.0
 132 99.7 66.1 122.7
 130 102.2 70.0 130.0

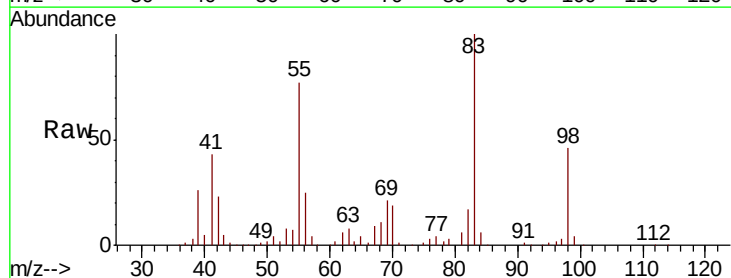


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

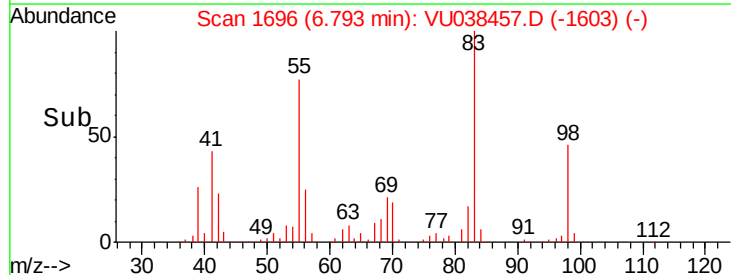
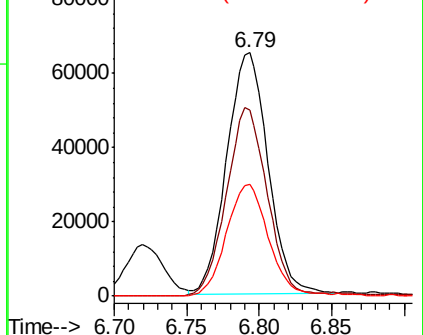


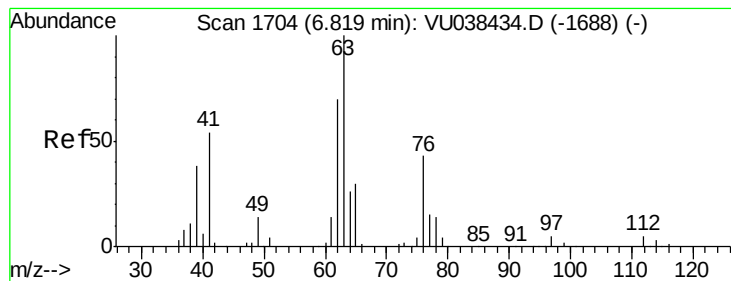
#35
 Methylcyclohexane
 Concen: 4.088 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion: 83 Resp: 128207
 Ion Ratio Lower Upper
 83 100
 55 77.5 63.4 95.2
 98 46.7 39.0 58.4



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: 5.232 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

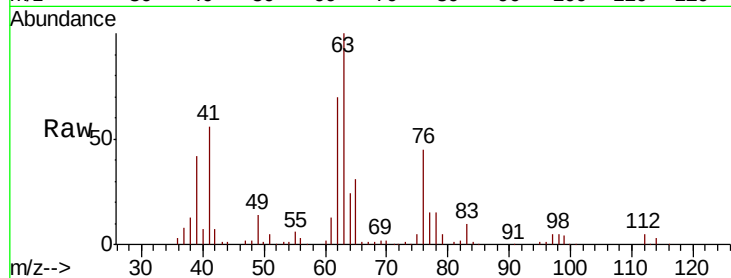
ClientSampled :

Tot Ion: 63 Resp: 102741

Ion Ratio Lower Upper

63 100

112 4.8 3.7 5.5



Abundance Ion 63.10 (62.80 to 63.80): VU038434.D (-1688) (-)

Ion 112.10 (111.80 to 112.80): VU038434.D (-1688) (-)

6.82

60000

50000

40000

30000

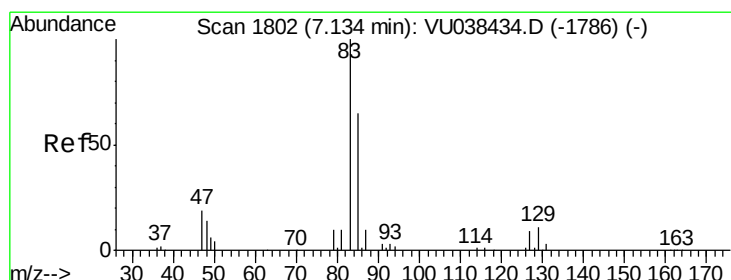
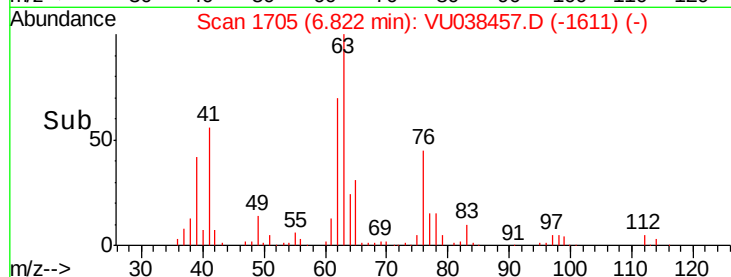
20000

10000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 5.378 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

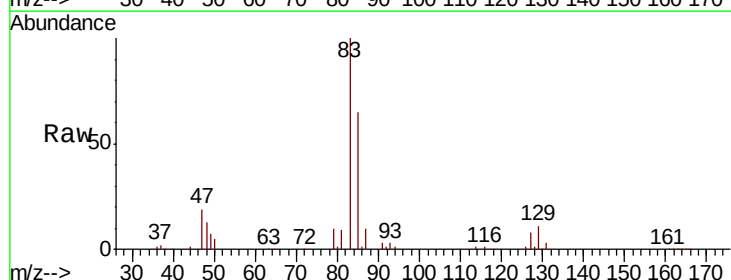
Tgt Ion: 83 Resp: 131161

Ion Ratio Lower Upper

83 100

85 64.6 44.7 83.1

127 8.3 6.8 10.2



Abundance Ion 82.95 (82.65 to 83.65): VU038434.D (-1786) (-)

Ion 85.00 (84.70 to 85.70): VU038434.D (-1786) (-)

Ion 126.90 (126.60 to 127.60): VU038434.D (-1786) (-)

7.13

80000

60000

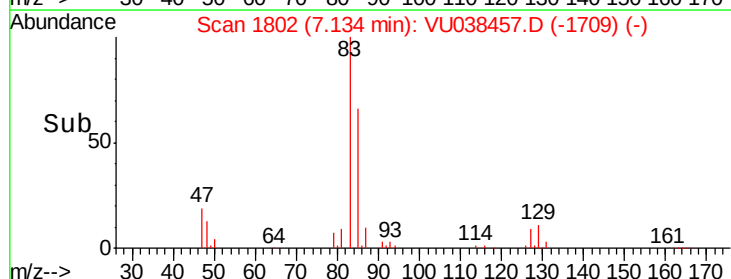
40000

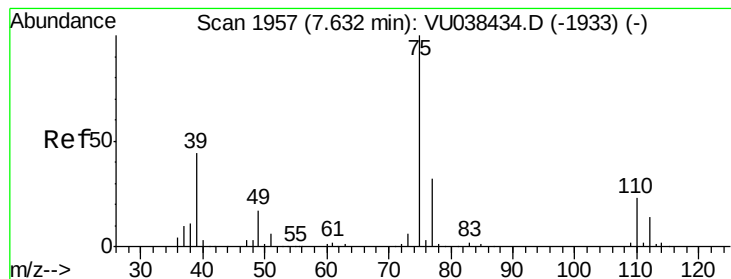
20000

0

7.05 7.10 7.15 7.20

Time-->



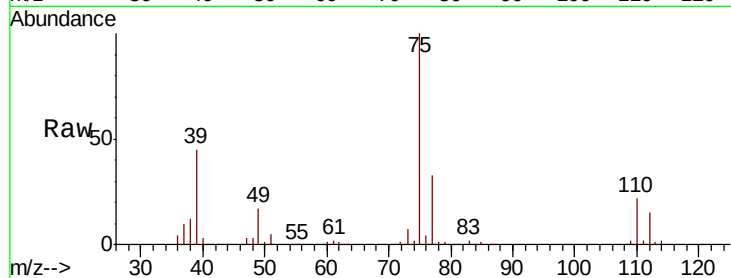


#39

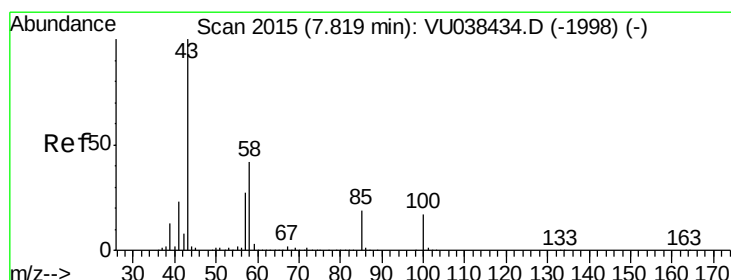
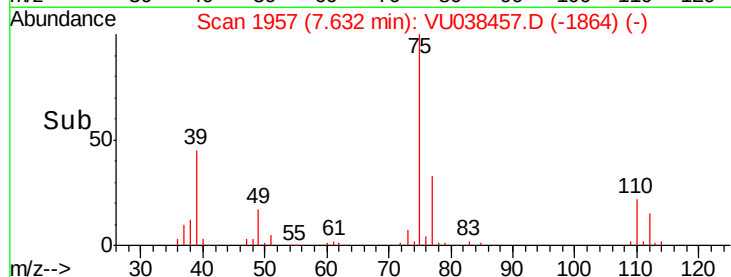
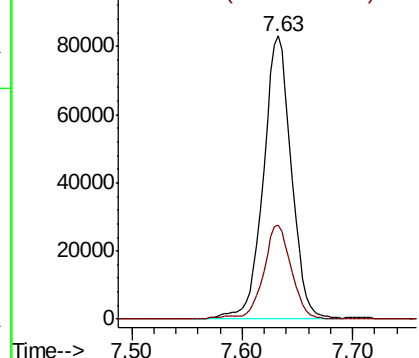
cis-1,3-Dichloropropene
Concen: 5.038 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 146219
Ion Ratio Lower Upper
75 100
77 33.4 21.9 40.7



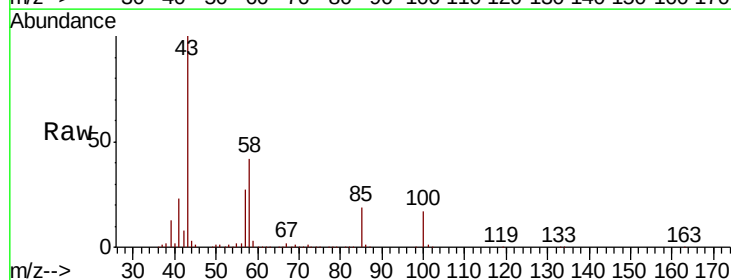
Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0



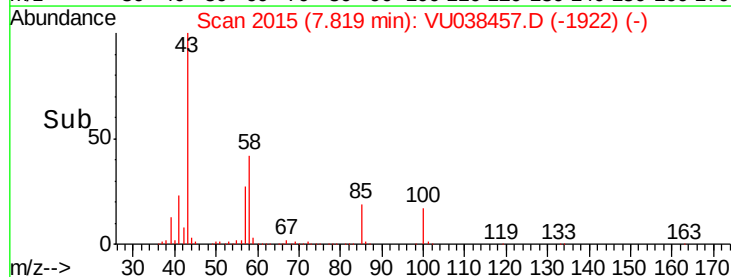
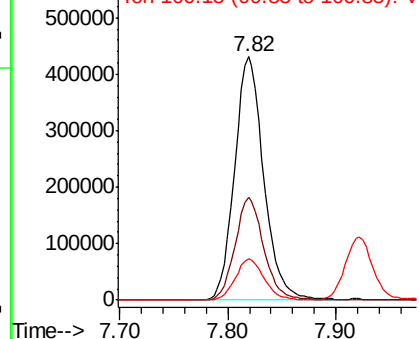
#40

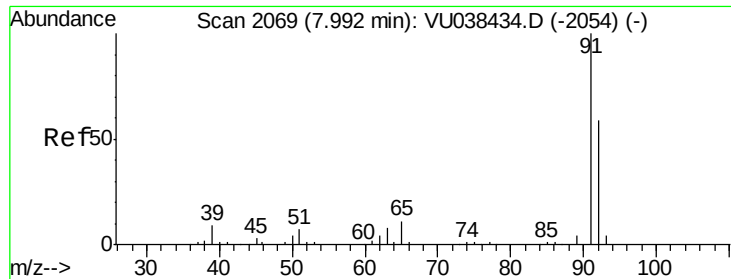
4-Methyl-2-pentanone
Concen: 57.810 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion: 43 Resp: 811857
Ion Ratio Lower Upper
43 100
58 41.6 32.4 48.6
100 16.8 13.3 19.9



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





#42

Toluene

Concen: 4.954 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

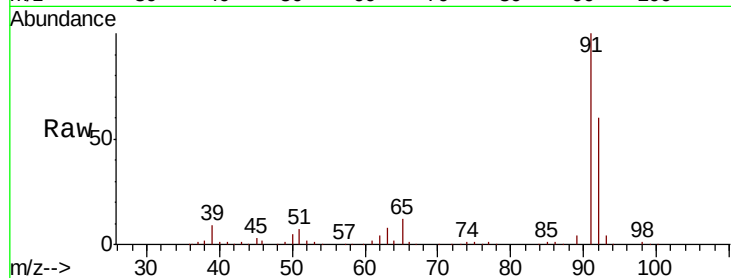
ClientSampleId :

Tot Ion: 91 Resp: 405474

Ion Ratio Lower Upper

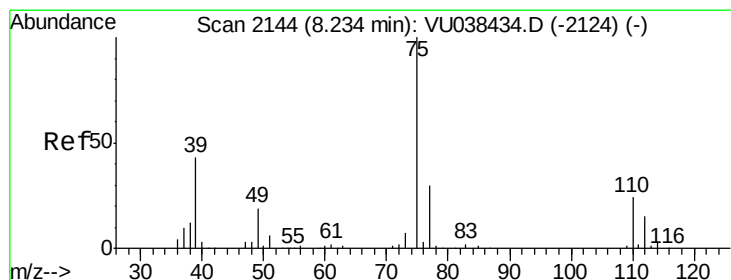
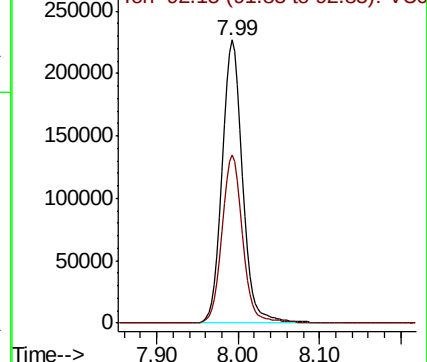
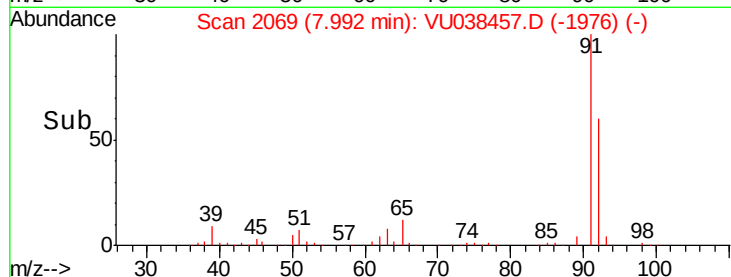
91 100

92 59.6 43.0 79.8



Abundance Ion 91.15 (90.85 to 91.85): VU038434.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038457.D (-1976) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.035 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038457.D

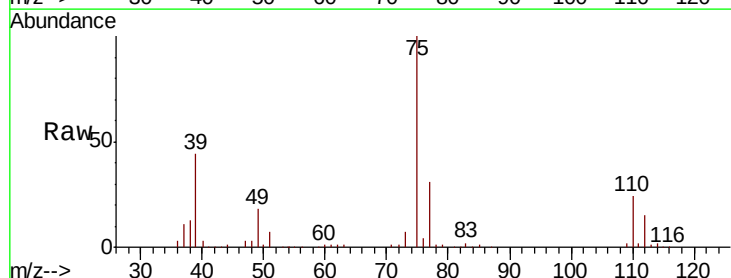
Acq: 31 May 2020 08:55

Tgt Ion: 75 Resp: 129064

Ion Ratio Lower Upper

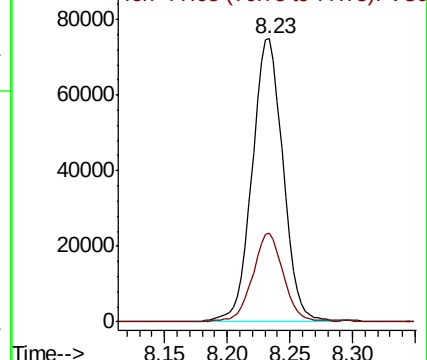
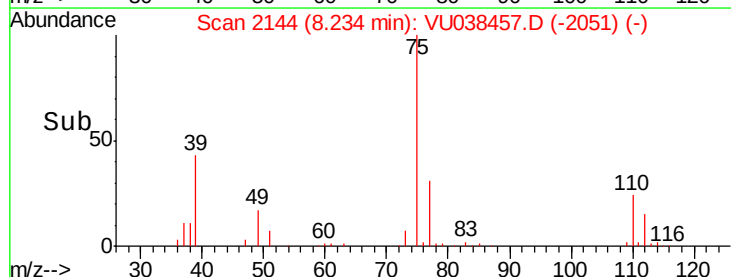
75 100

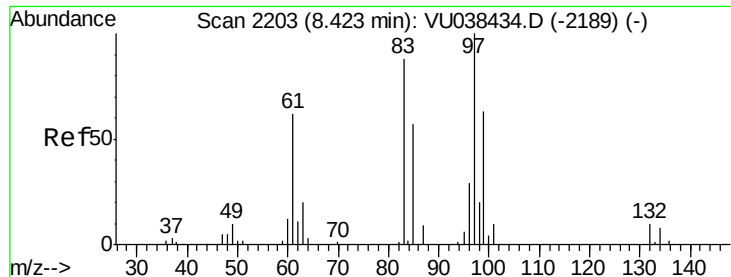
77 31.4 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU038434.D (-2124) (-)

Ion 77.05 (76.75 to 77.75): VU038457.D (-2051) (-)

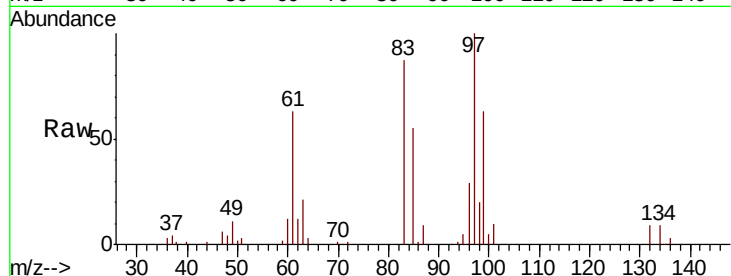




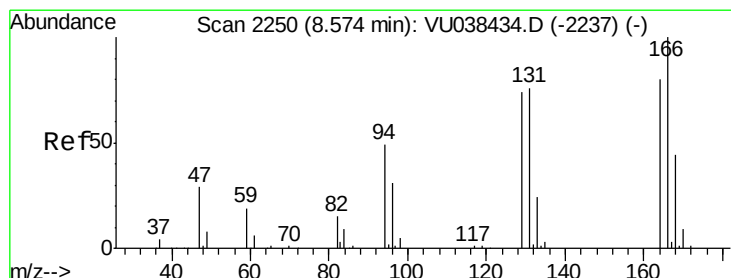
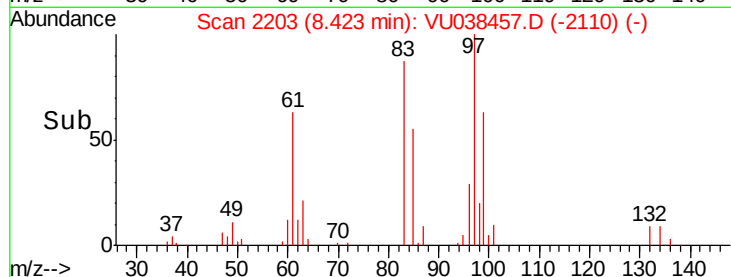
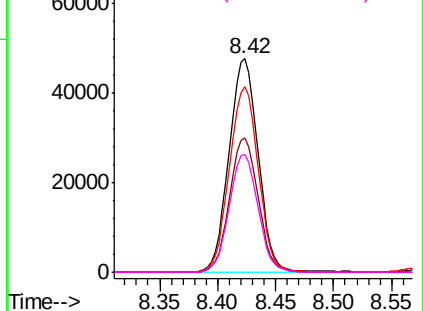
#45
 1,1,2-Trichloroethane
 Concen: 5.595 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	82882
Ion	Ratio	Lower	Upper
97	100		
99	62.8	42.1	78.1
83	87.0	58.8	109.2
85	55.0	37.4	69.4

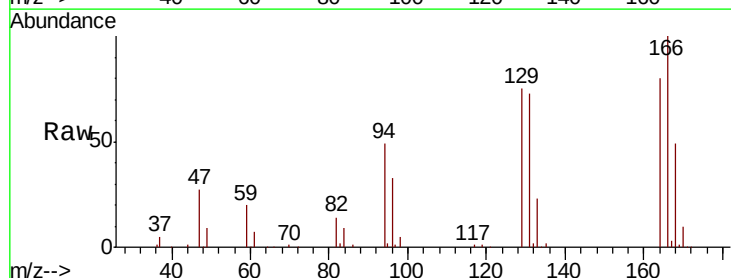


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

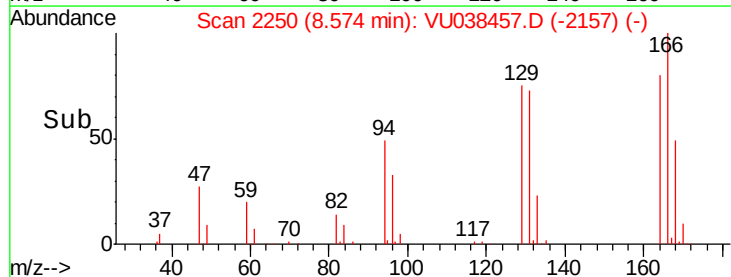
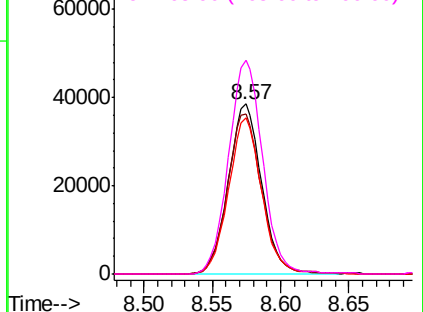


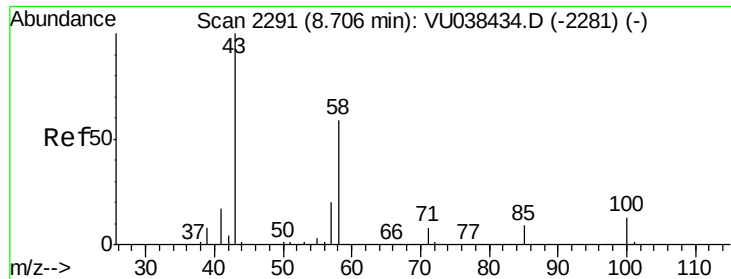
#47
 Tetrachloroethene
 Concen: 4.444 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion:	164	Resp:	65393
Ion	Ratio	Lower	Upper
164	100		
129	94.1	67.4	125.2
131	91.6	64.1	119.1
166	125.6	85.7	159.1



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

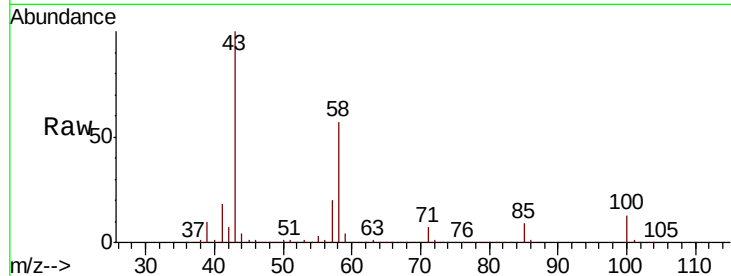




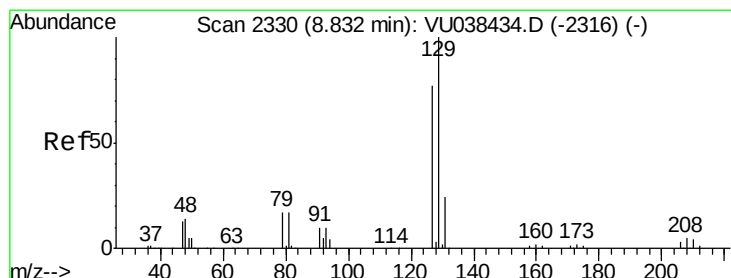
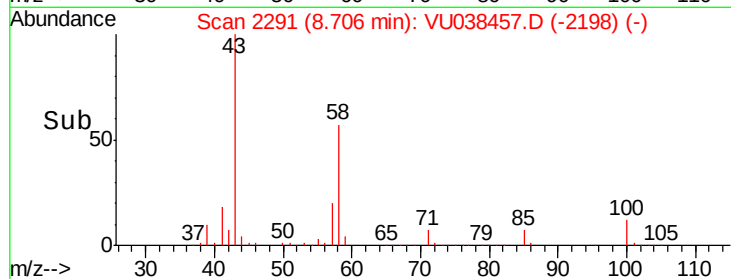
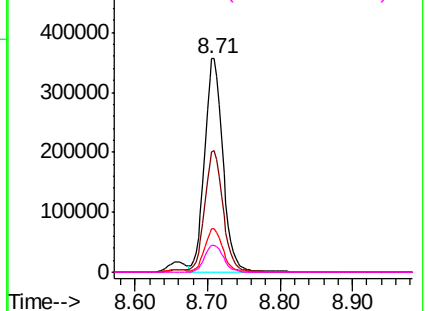
#48
2-Hexanone
Concen: 59.186 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 629461
Ion Ratio Lower Upper
43 100
58 56.0 45.4 68.0
57 20.2 15.9 23.9
100 13.0 10.5 15.7

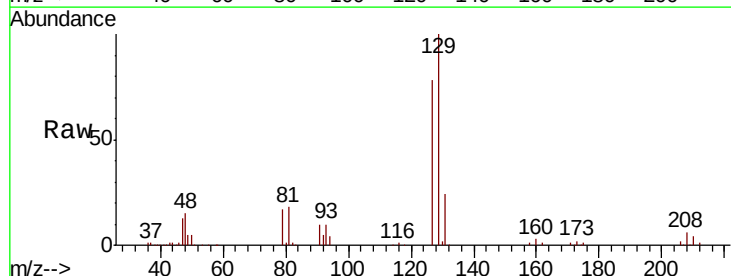


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

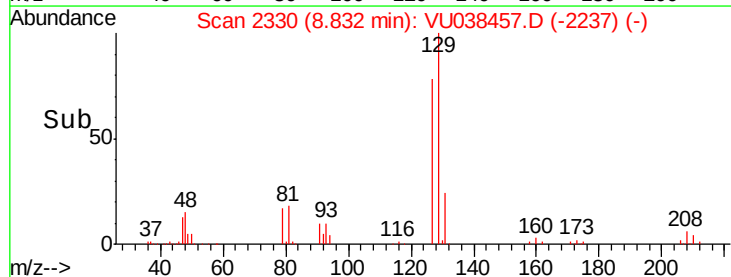
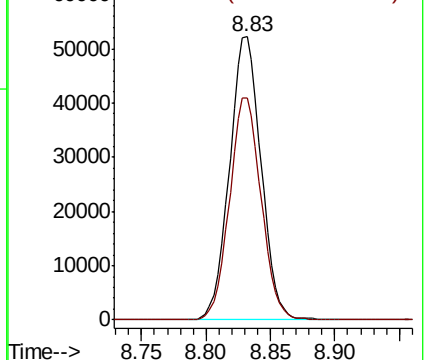


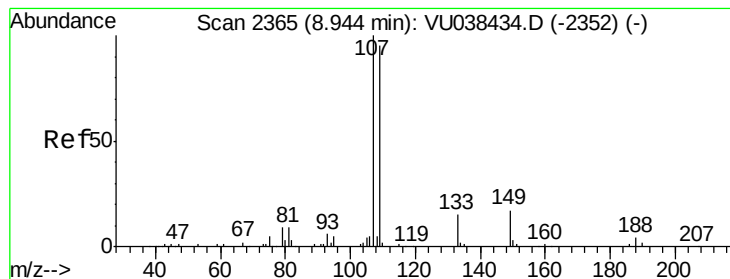
#49
Dibromochloromethane
Concen: 5.536 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion: 129 Resp: 88522
Ion Ratio Lower Upper
129 100
127 78.4 53.3 99.1



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





#50

1,2-Dibromoethane

Concen: 5.485 ug/L

RT: 8.94 min Scan# 2365

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

ClientSampleId :

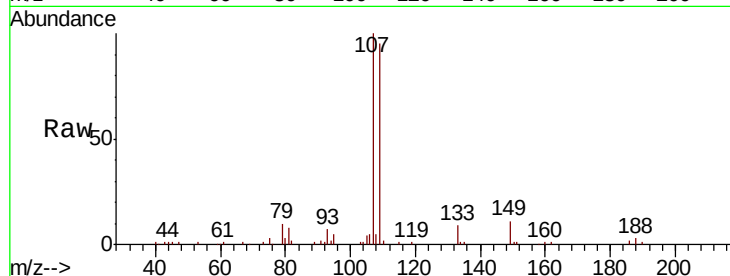
Tot Ion:107 Resp: 77815

Ion Ratio Lower Upper

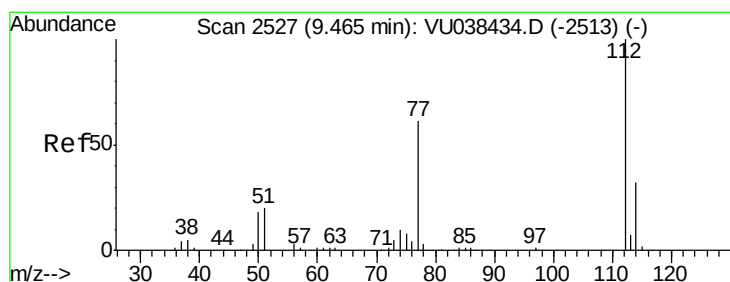
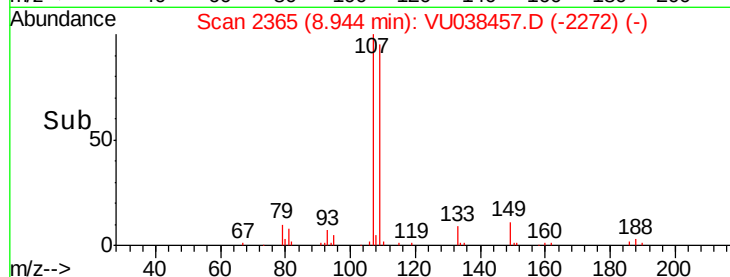
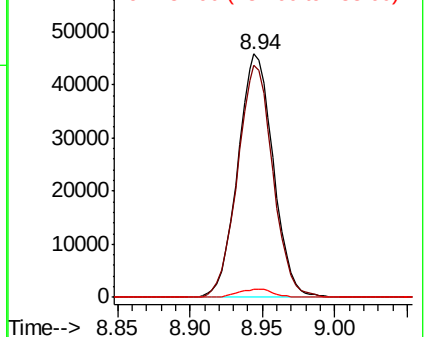
107 100

109 95.2 67.0 124.4

188 3.3 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: 4.800 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

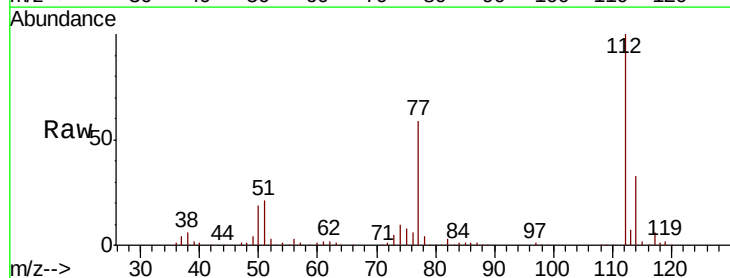
Tgt Ion:112 Resp: 253382

Ion Ratio Lower Upper

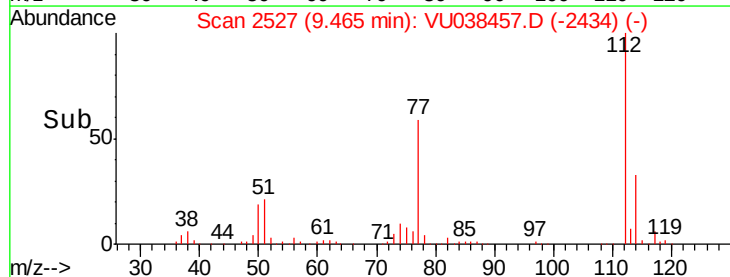
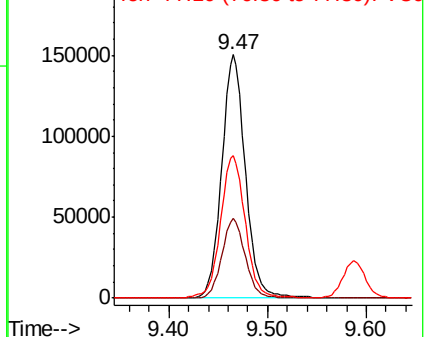
112 100

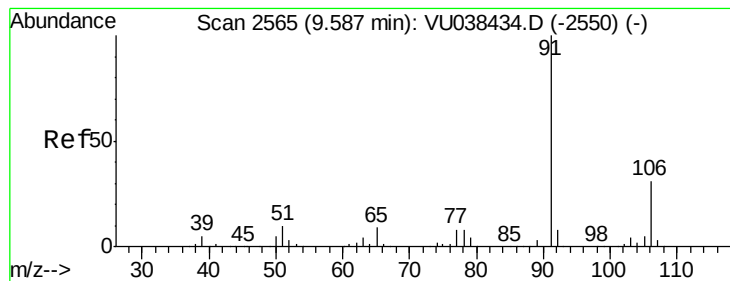
114 32.6 22.4 41.6

77 58.7 47.1 70.7



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: 4.600 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

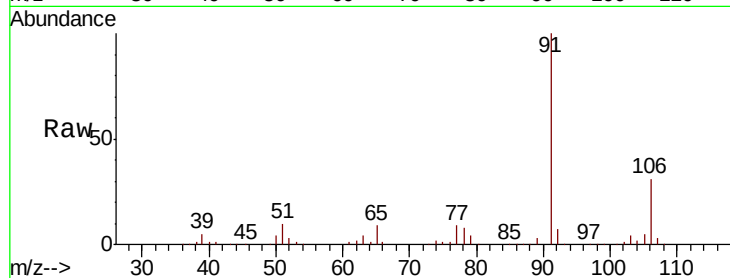
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 418861

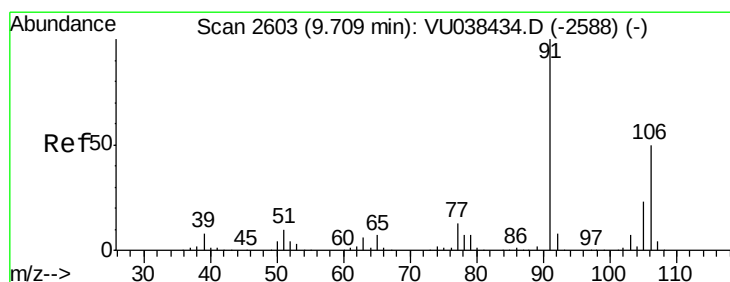
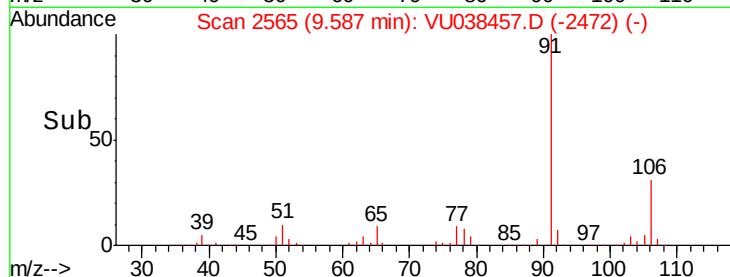
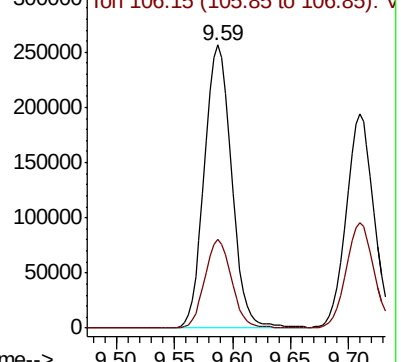
Ion Ratio Lower Upper

91 100

106 31.2 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VU038457.D (-2550) (-)



#53

m,p-Xylene

Concen: 4.634 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU038457.D

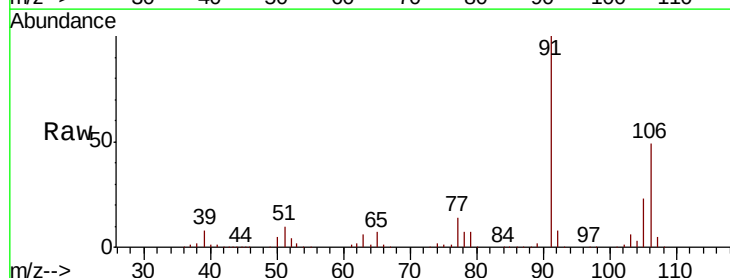
Acq: 31 May 2020 08:55

Tgt Ion: 106 Resp: 162301

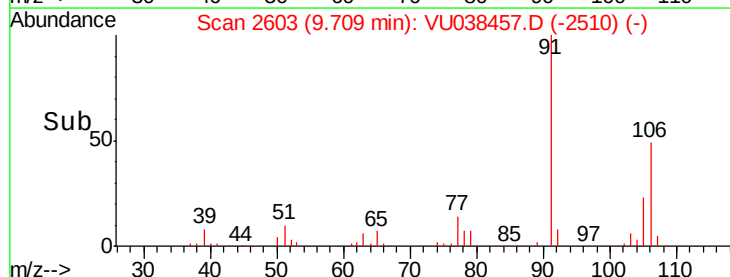
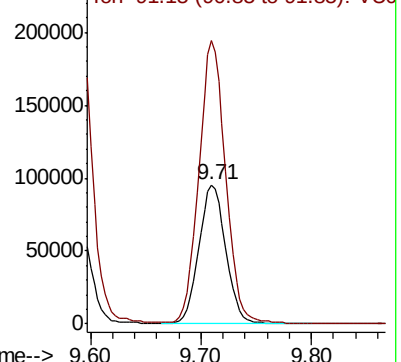
Ion Ratio Lower Upper

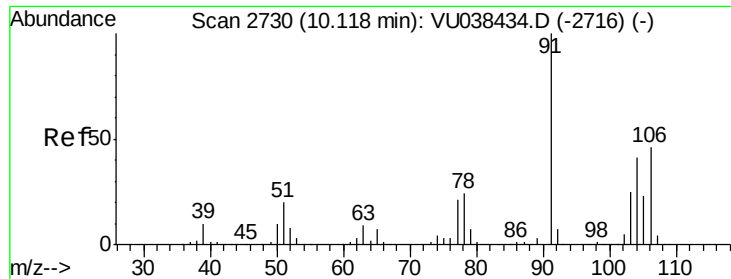
106 100

91 203.3 138.1 256.5



Abundance Ion 106.15 (105.85 to 106.85): VU038457.D (-2510) (-)

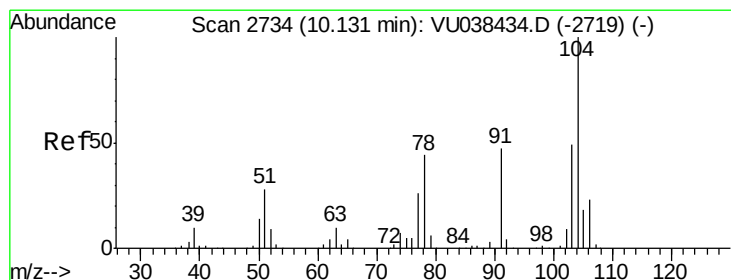
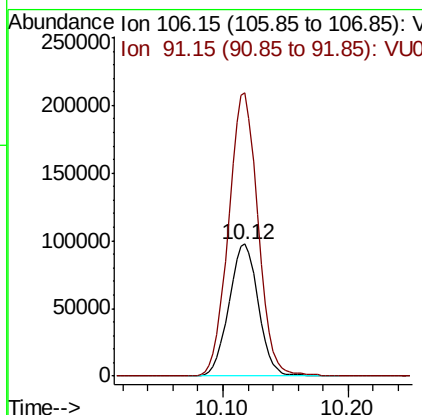
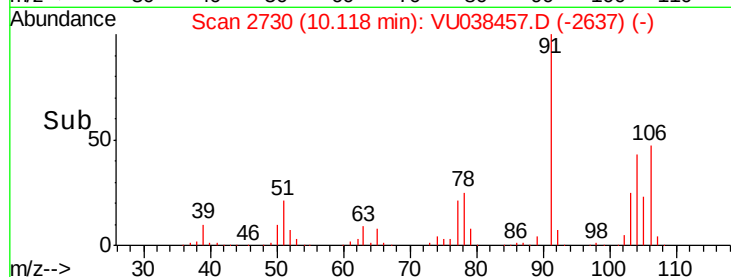
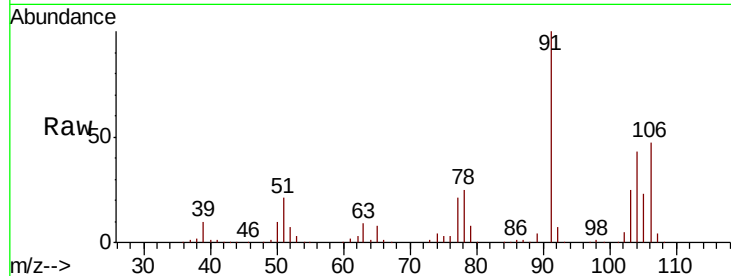




#54
o-Xylene
Concen: 4.729 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

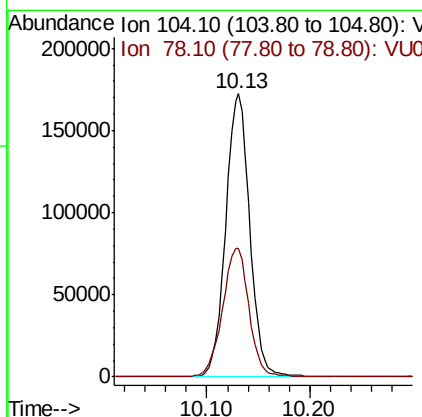
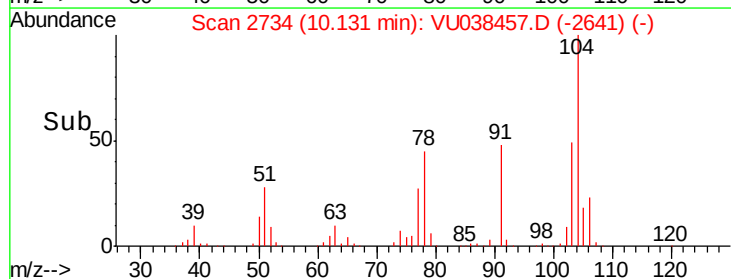
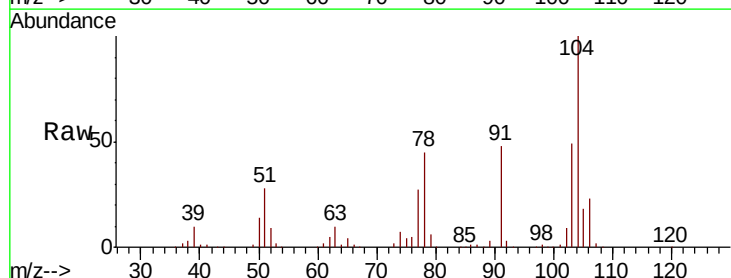
Instrument :
MSVOA_U
ClientSampled :

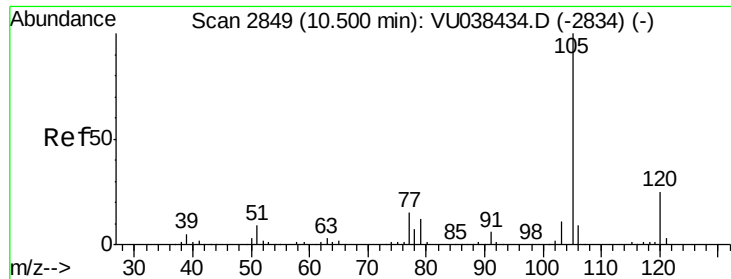
Tot Ion:106 Resp: 158977
Ion Ratio Lower Upper
106 100
91 214.9 150.6 279.8



#55
Styrene
Concen: 4.908 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU038457.D
Acq: 31 May 2020 08:55

Tgt Ion:104 Resp: 280104
Ion Ratio Lower Upper
104 100
78 45.4 31.9 59.3





#56

Isopropylbenzene

Concen: 4.448 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

ClientSampleId :

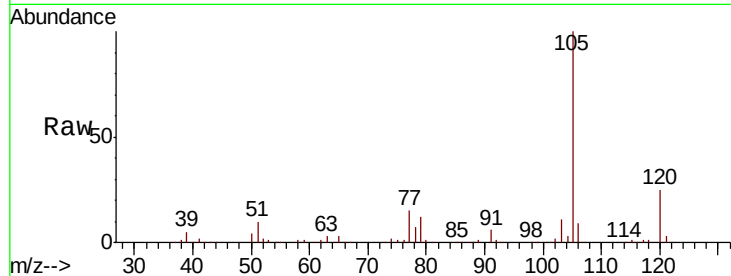
Tot Ion:105 Resp: 393634

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1

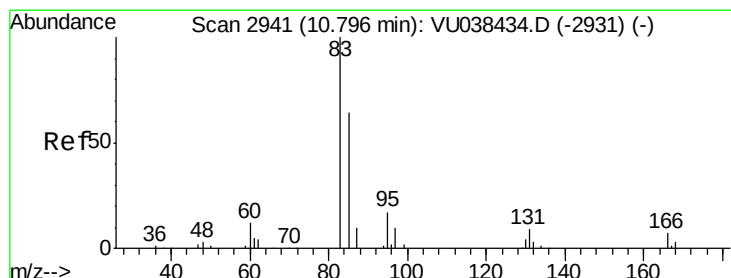
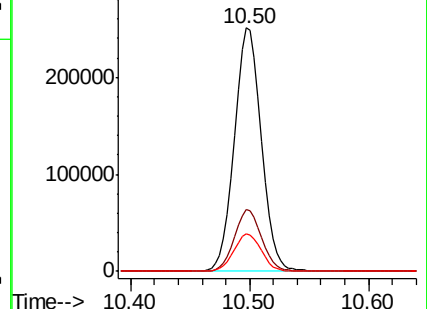
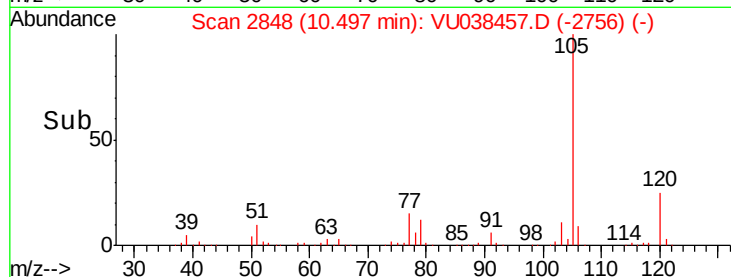
77 15.7 12.5 18.7



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: 5.530 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

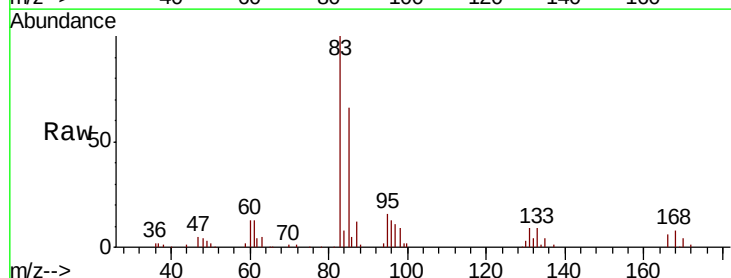
Tgt Ion: 83 Resp: 104106

Ion Ratio Lower Upper

83 100

85 65.7 44.2 82.0

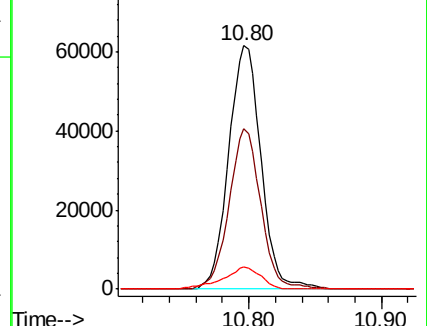
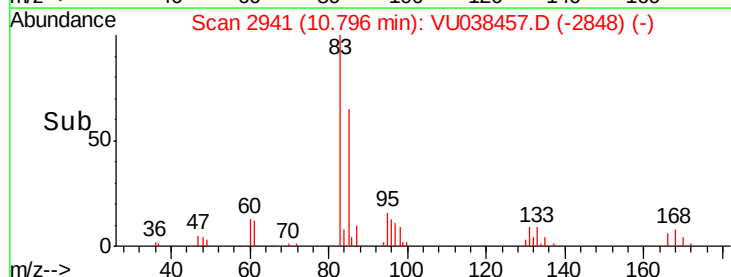
131 9.2 8.1 12.1

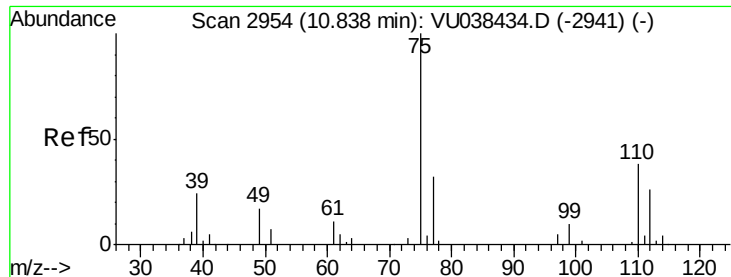


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

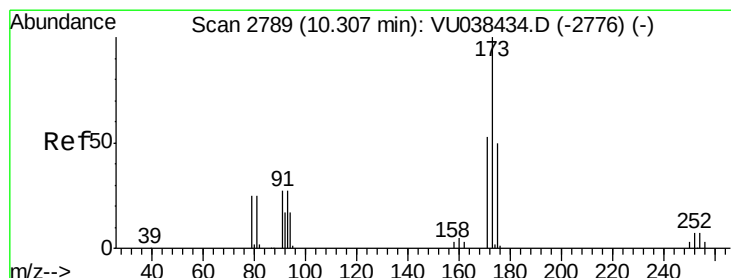
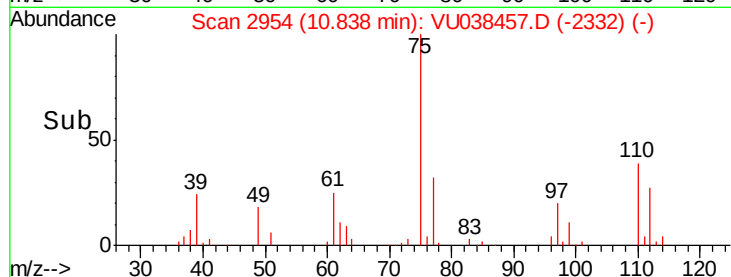
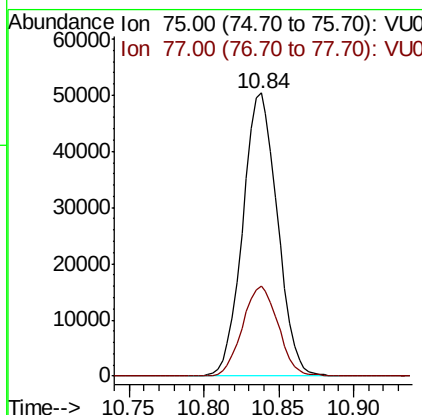
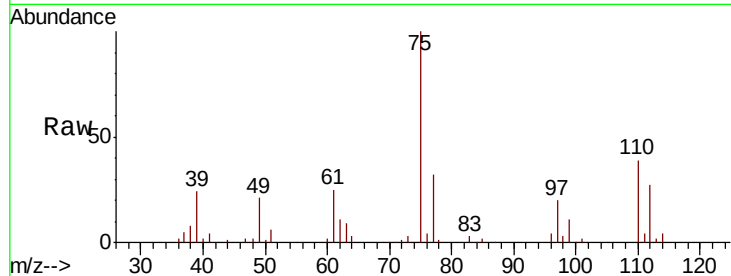




#59
 1,2,3-Trichloropropane
 Concen: 5.543 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

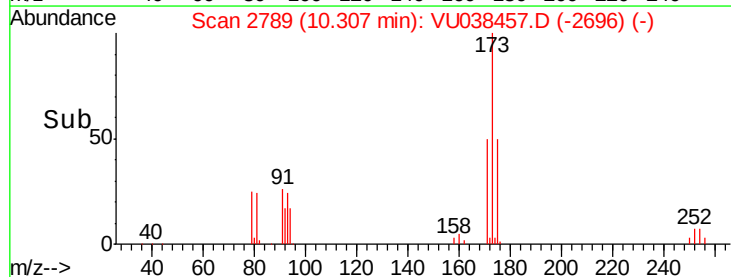
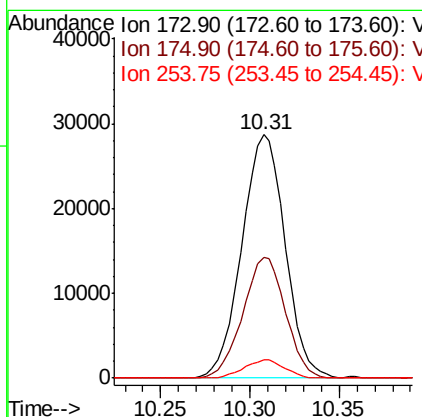
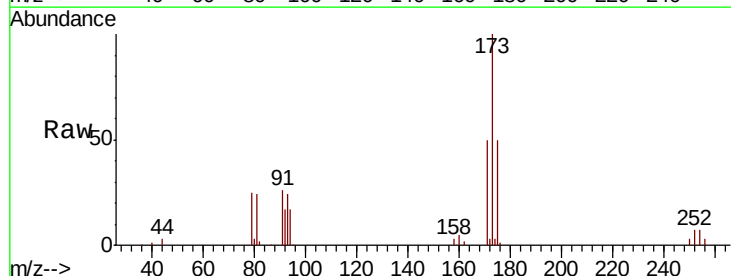
Instrument :
 MSVOA_U
 ClientSampleId :

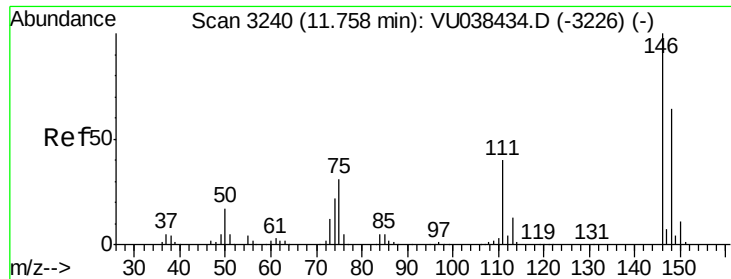
Tot Ion: 75 Resp: 81249
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.4 38.2



#61
 Bromoform
 Concen: 5.666 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion: 173 Resp: 48621
 Ion Ratio Lower Upper
 173 100
 175 48.9 38.7 58.1
 254 7.0 5.4 8.2

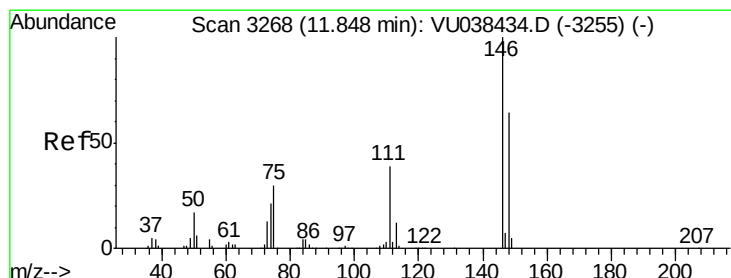
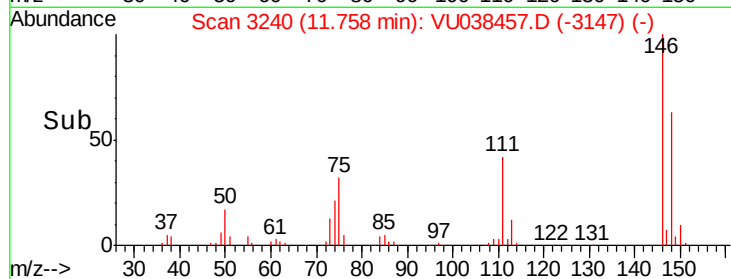
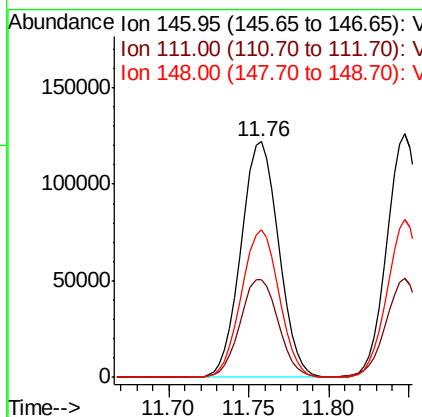
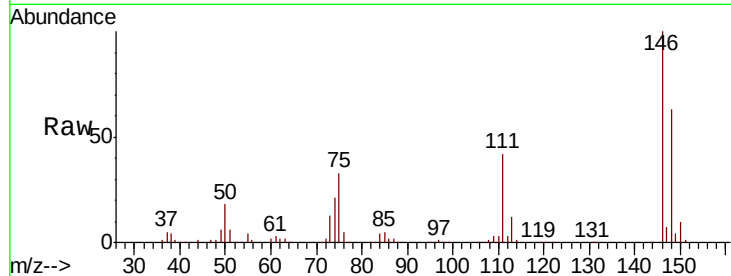




#62
 1,3-Dichlorobenzene
 Concen: 4.839 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

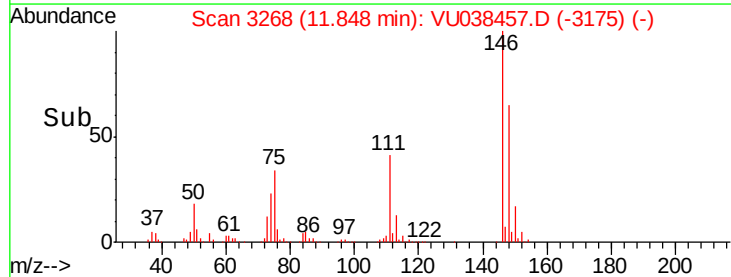
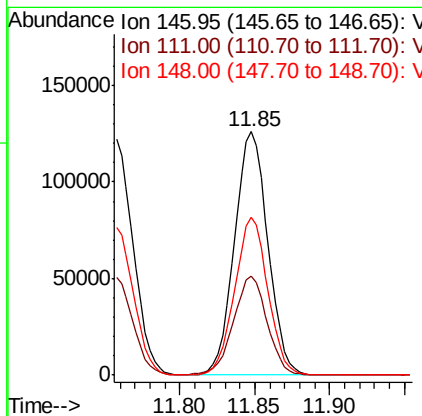
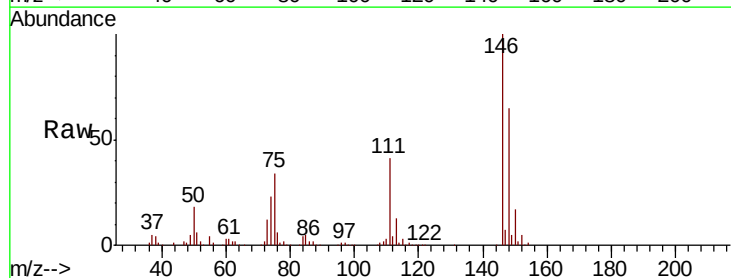
Instrument :
 MSVOA_U
 ClientSampleId :

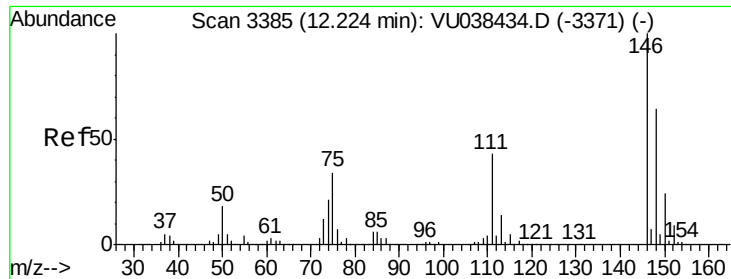
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	29.5	54.9
148	62.8	45.6	84.6



#63
 1,4-Dichlorobenzene
 Concen: 4.764 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	27.6	51.2
148	65.1	44.8	83.2

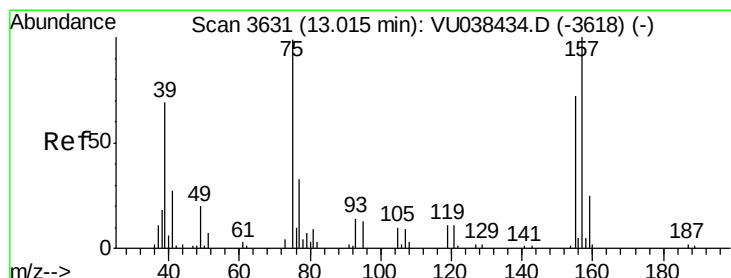
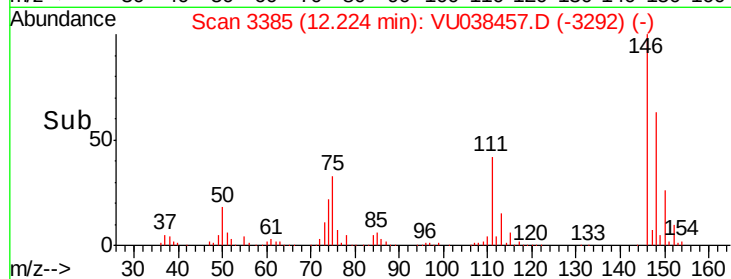
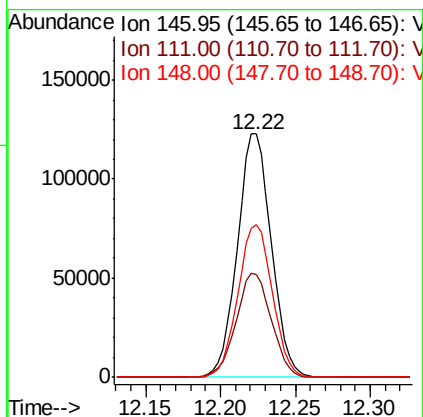
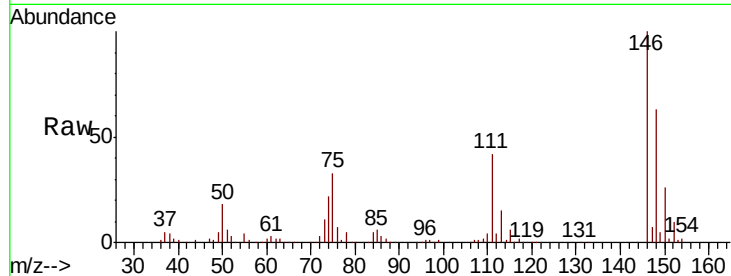




#65
 1,2-Dichlorobenzene
 Concen: 5.048 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

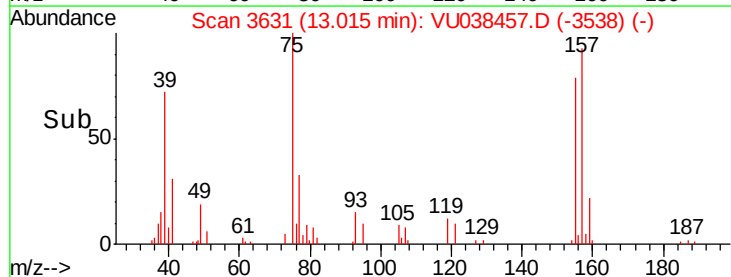
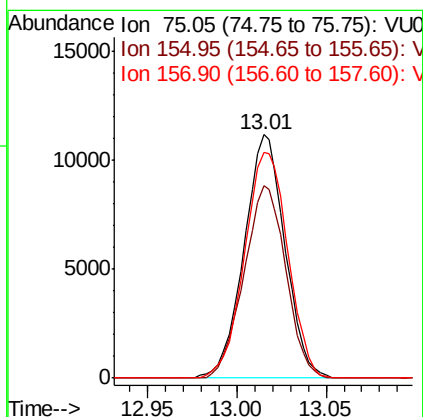
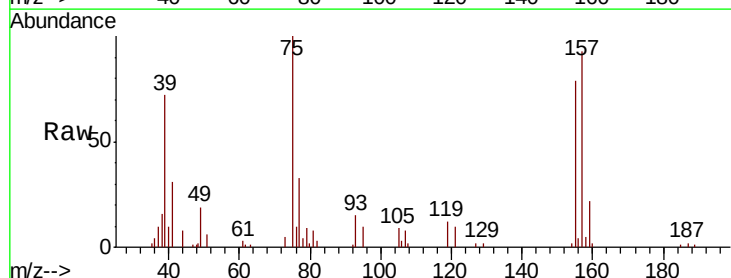
Instrument :
 MSVOA_U
 ClientSampleId :

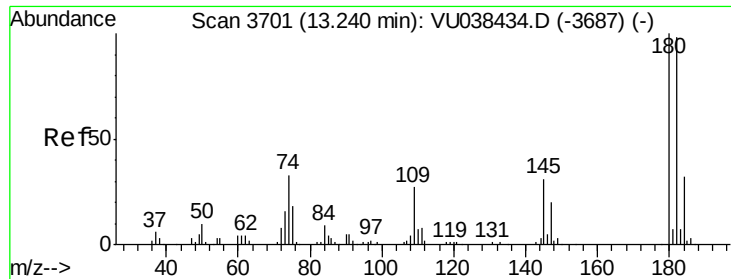
Tot Ion:146 Resp: 194022
 Ion Ratio Lower Upper
 146 100
 111 42.2 35.1 52.7
 148 62.8 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.758 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion: 75 Resp: 17917
 Ion Ratio Lower Upper
 75 100
 155 78.8 59.6 89.4
 157 92.7 79.8 119.6

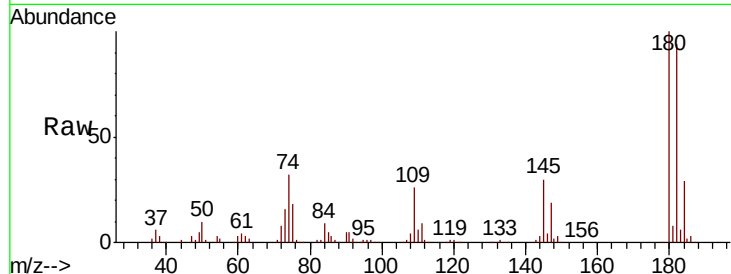




#67
 1,3,5-Trichlorobenzene
 Concen: 4.640 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.8	115.2
184	30.0	25.1	37.7
145	30.7	24.6	37.0



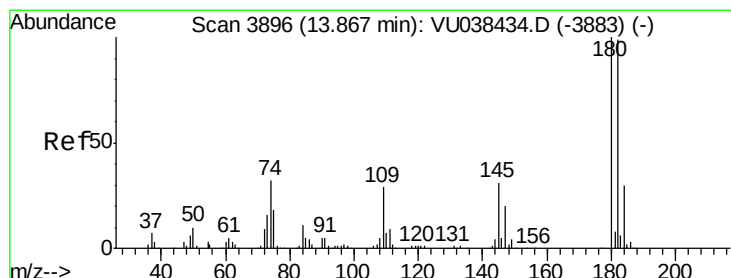
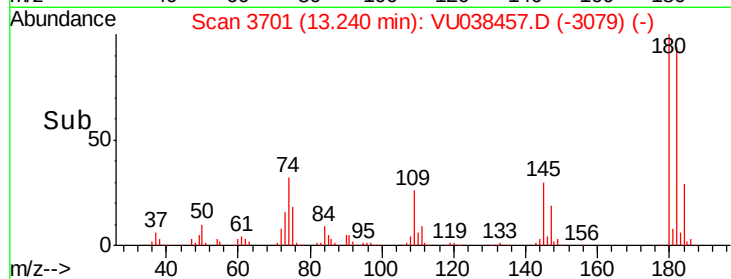
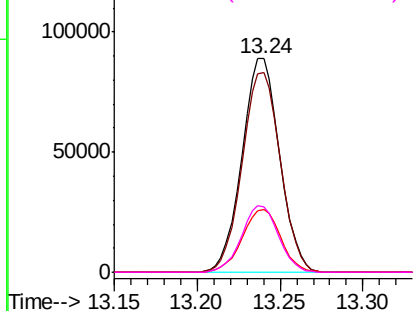
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

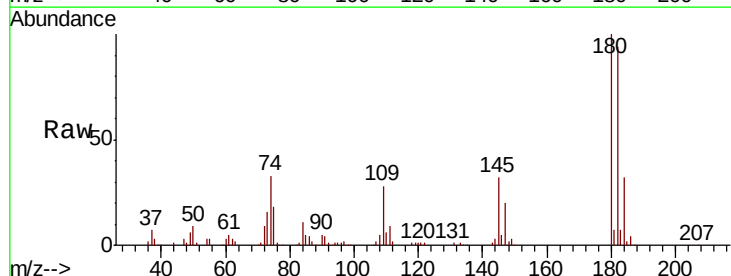
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.658 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU038457.D
 Acq: 31 May 2020 08:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.8	113.8
145	32.3	25.3	37.9

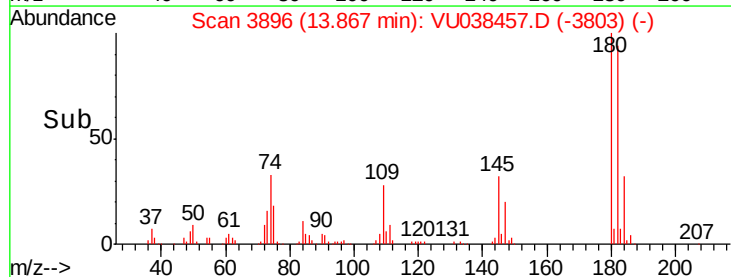
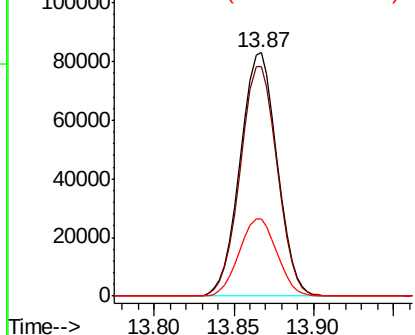


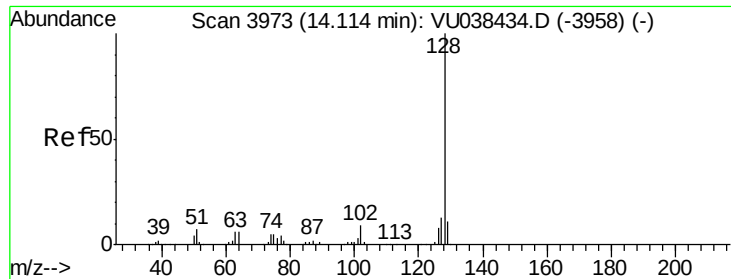
Abundance

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: 5.294 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

Instrument :

MSVOA_U

ClientSampleId :

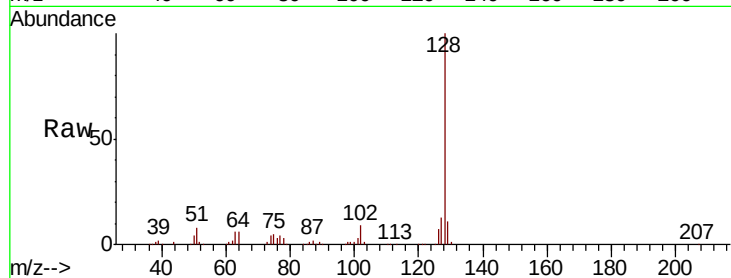
Tot Ion:128 Resp: 294478

Ion Ratio Lower Upper

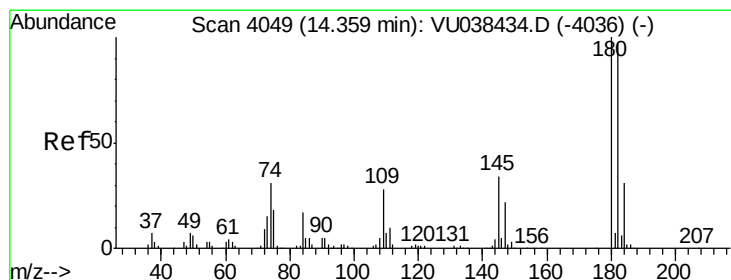
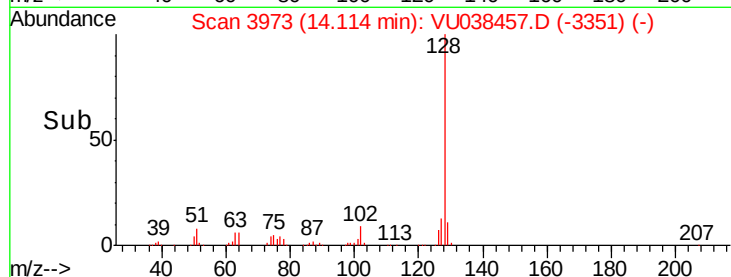
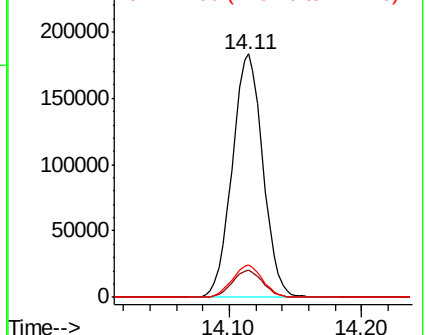
128 100

129 11.1 8.9 13.3

127 13.1 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.031 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU038457.D

Acq: 31 May 2020 08:55

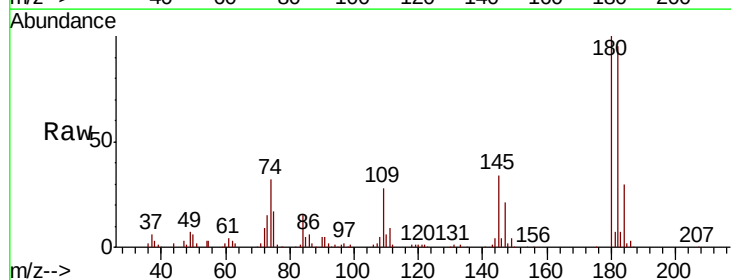
Tgt Ion:180 Resp: 127937

Ion Ratio Lower Upper

180 100

182 96.2 78.7 118.1

145 33.2 27.5 41.3



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

