

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052120\
 Data File : VU038259.D
 Acq On : 21 May 2020 12:36
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 21 16:03:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 21 01:14:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	365497	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	359118	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	176495	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	141390	4.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.60%
7) Chloroethane-d5	1.93	69	125491	4.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.80%
11) 1,1-Dichloroethene-d2	2.59	63	243771	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.20%
20) 2-Butanone-d5	4.68	46	456777	55.38	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.76%
24) Chloroform-d	5.10	84	246116	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.74	65	141473	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.76	84	500505	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.72	67	164065	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.40%
41) Toluene-d8	7.92	98	453161	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
43) trans-1,3-Dichloropropene-	8.20	79	66800	4.80	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.00%
46) 2-Hexanone-d5	8.66	63	335066	51.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.00%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	138971	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
64) 1,2-Dichlorobenzene-d4	12.21	152	163712	4.77	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	151197	4.523	ug/L 97
3) Chloromethane	1.53	50	163571	4.060	ug/L 99
5) Vinyl chloride	1.62	62	180570	4.574	ug/L 99
6) Bromomethane	1.88	94	82897	3.689	ug/L 99
8) Chloroethane	1.95	64	108037	4.450	ug/L 99
9) Trichlorofluoromethane	2.16	101	206479	5.116	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	129750	5.186	ug/L 99
12) 1,1-Dichloroethene	2.61	96	121133	4.776	ug/L 88
13) Acetone	2.68	43	292371	56.496	ug/L 98
14) Carbon disulfide	2.82	76	380315	4.203	ug/L 99
15) Methyl Acetate	2.99	43	67028	4.630	ug/L 92
16) Methylene chloride	3.08	84	140829	4.763	ug/L 96
17) Methyl tert-butyl Ether	3.40	73	327482	4.647	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	130937	4.728	ug/L 98
19) 1,1-Dichloroethane	3.91	63	259058	4.790	ug/L 99
21) 2-Butanone	4.76	43	490862	53.738	ug/L 99
22) cis-1,2-Dichloroethene	4.71	96	146751	4.918	ug/L 98

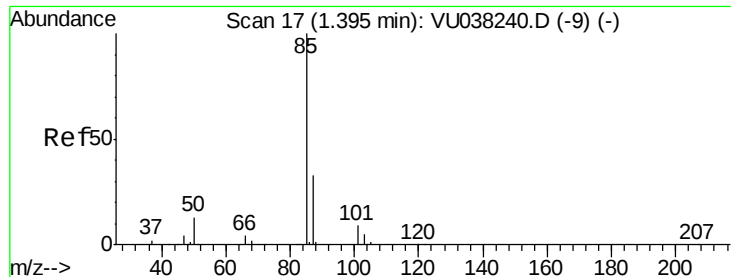
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052120\
 Data File : VU038259.D
 Acq On : 21 May 2020 12:36
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 21 16:03:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 21 01:14:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	63152	4.918	ug/L	95
25) Chloroform	5.13	83	251179	4.979	ug/L	98
27) 1,2-Dichloroethane	5.83	62	179466	5.040	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	204932	4.981	ug/L	98
30) Cyclohexane	5.42	56	230378	4.742	ug/L	100
31) Carbon tetrachloride	5.56	117	167184	5.056	ug/L	98
33) Benzene	5.81	78	569072	4.948	ug/L	100
34) Trichloroethene	6.57	95	141640	4.924	ug/L	99
35) Methylcyclohexane	6.79	83	229107	4.917	ug/L	95
37) 1,2-Dichloropropane	6.82	63	146997	4.706	ug/L	99
38) Bromodichloromethane	7.13	83	181013	5.013	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	213617	4.778	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	1090223	50.358	ug/L	99
42) Toluene	8.00	91	592486	4.881	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	188092	4.948	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	108866	5.019	ug/L	97
47) Tetrachloroethene	8.58	164	97721	4.857	ug/L	97
48) 2-Hexanone	8.71	43	825857	52.089	ug/L	99
49) Dibromochloromethane	8.83	129	113446	5.039	ug/L	97
50) 1,2-Dibromoethane	8.95	107	101806	5.057	ug/L	98
51) Chlorobenzene	9.47	112	380459	5.050	ug/L	99
52) Ethylbenzene	9.59	91	661799	5.033	ug/L	98
53) m,p-Xylene	9.71	106	252466	5.007	ug/L	100
54) o-Xylene	10.12	106	244731	5.020	ug/L	99
55) Styrene	10.13	104	416661	5.091	ug/L	98
56) Isopropylbenzene	10.50	105	644341	5.145	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	139695	5.072	ug/L	95
59) 1,2,3-Trichloropropane	10.84	75	108309	5.166	ug/L	100
61) Bromoform	10.31	173	60268	5.052	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	296798	5.168	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	298714	5.133	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	276039	4.996	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	22453	4.973	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	209812	5.035	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	195293	5.167	ug/L	99
69) Naphthalene	14.12	128	414391	5.208	ug/L	99
70) 1,2,3-Trichlorobenzene	14.37	180	180748	5.145	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.523 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

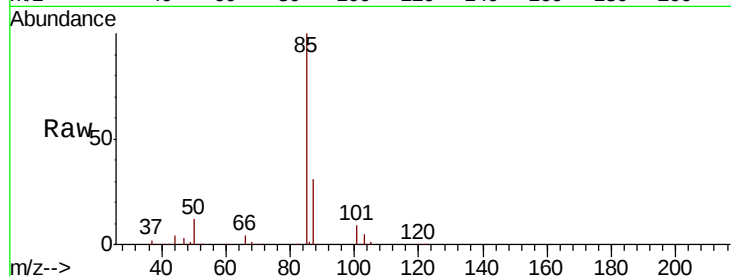
ClientSampleId :

Tot Ion: 85 Resp: 151197

Ion Ratio Lower Upper

85 100

87 31.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU038240.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038240.D (-9) (-)

1.39

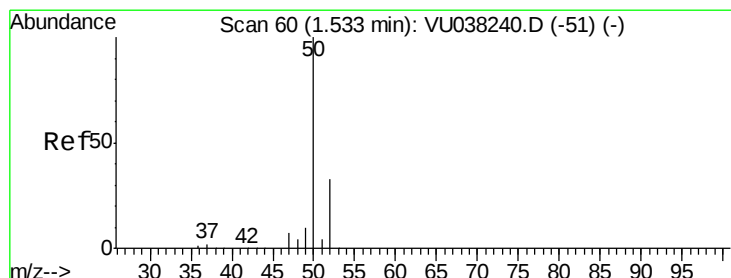
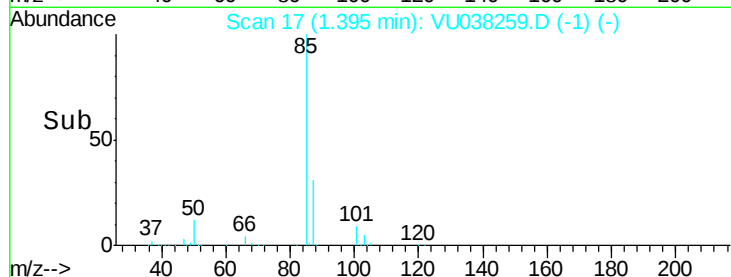
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.060 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038259.D

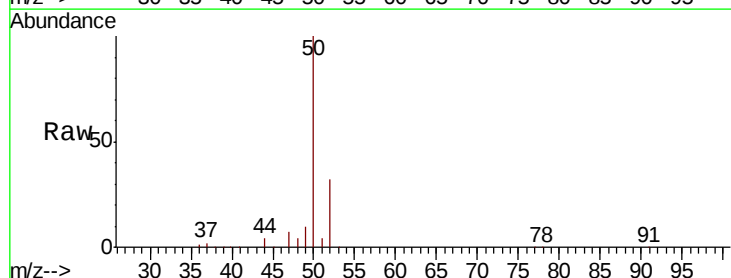
Acq: 21 May 2020 12:36

Tgt Ion: 50 Resp: 163571

Ion Ratio Lower Upper

50 100

52 31.8 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VU038240.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU038240.D (-51) (-)

1.53

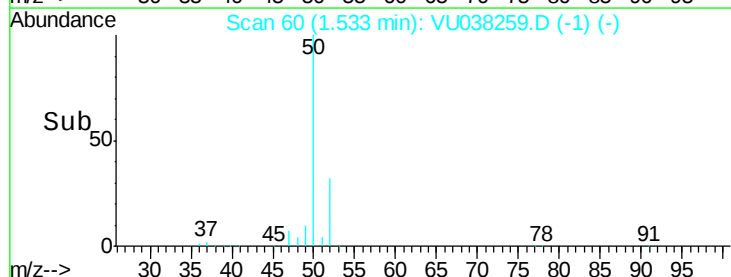
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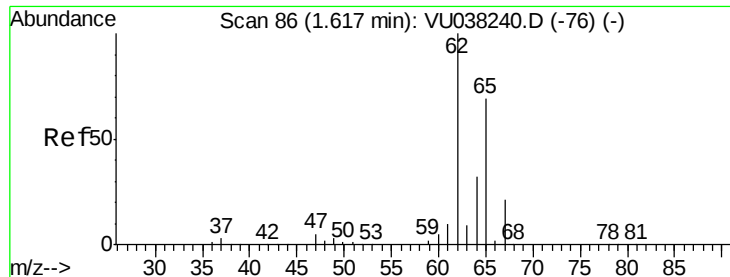
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50000

0

Time-->





#5

Vinyl chloride

Concen: 4.574 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

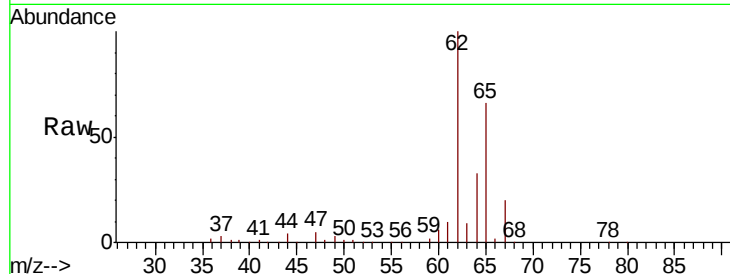
ClientSampled :

Tot Ion: 62 Resp: 180570

Ion Ratio Lower Upper

62 100

64 33.1 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.62

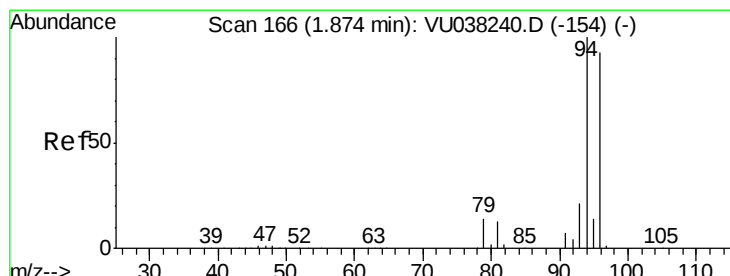
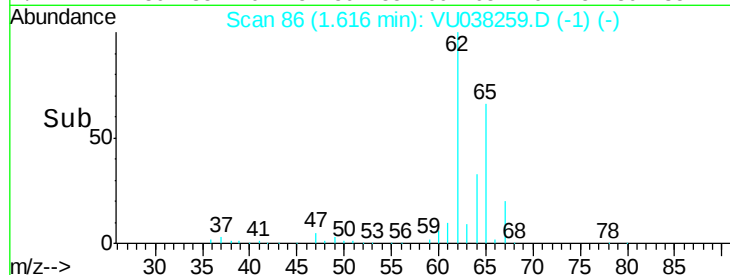
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 3.689 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU038259.D

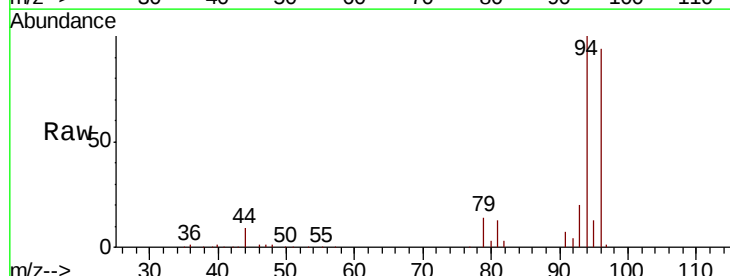
Acq: 21 May 2020 12:36

Tgt Ion: 94 Resp: 82897

Ion Ratio Lower Upper

94 100

96 94.0 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.88

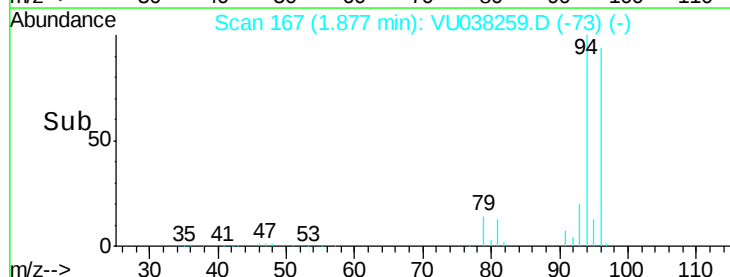
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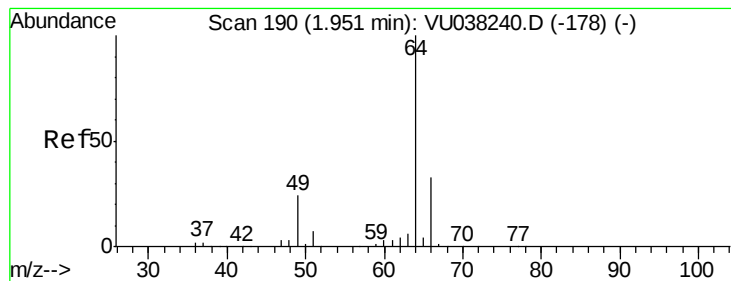
40000

20000

0

Time-->





#8

Chloroethane

Concen: 4.450 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

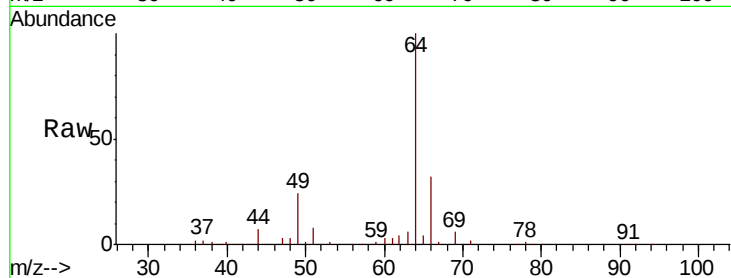
ClientSampleId :

Tot Ion: 64 Resp: 108037

Ion Ratio Lower Upper

64 100

66 31.7 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VU038240.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU038240.D (-178) (-)

1.95

80000

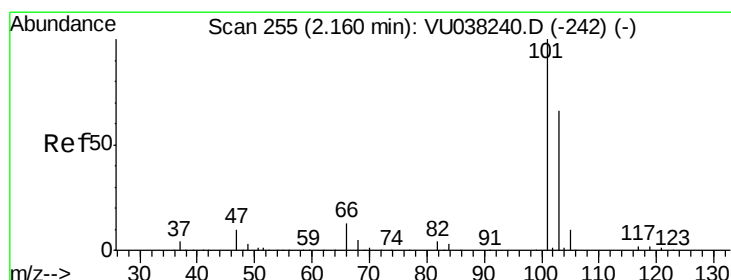
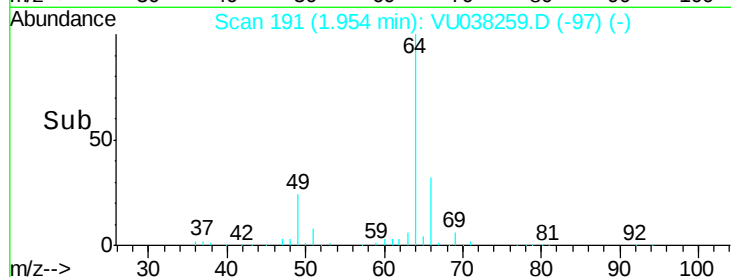
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 5.116 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU038259.D

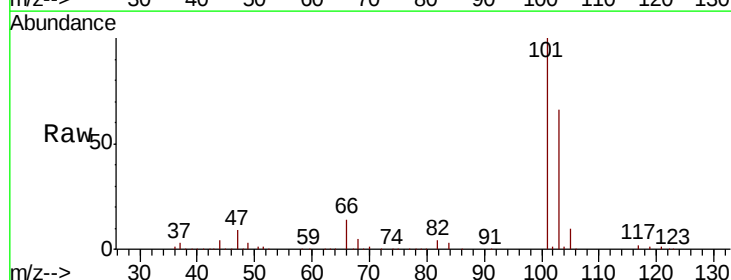
Acq: 21 May 2020 12:36

Tgt Ion:101 Resp: 206479

Ion Ratio Lower Upper

101 100

103 64.9 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU038240.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU038240.D (-242) (-)

2.16

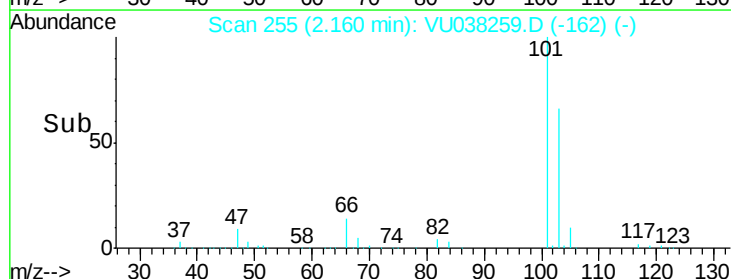
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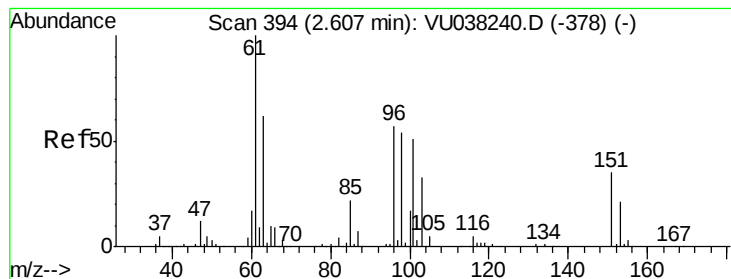
100000

50000

0

Time-->





#10

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

Concen: 5.186 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

ClientSampleId :

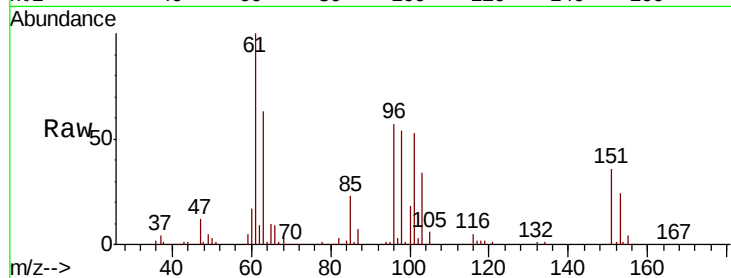
Tot Ion:101 Resp: 129750

Ion Ratio Lower Upper

101 100

85 42.9 35.3 52.9

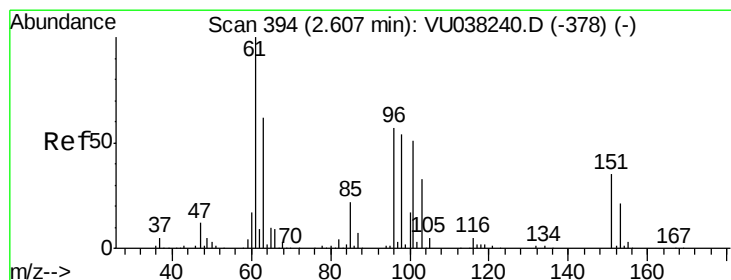
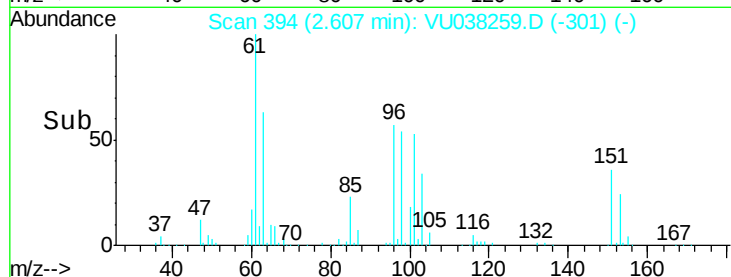
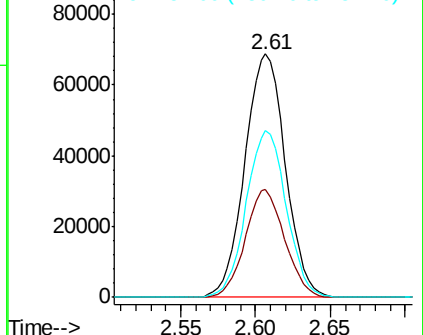
151 67.7 54.2 81.2



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: 4.776 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

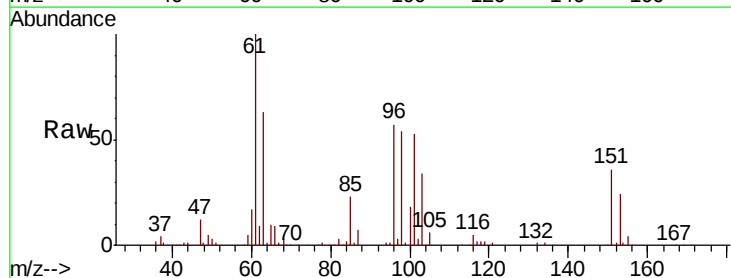
Tgt Ion: 96 Resp: 121133

Ion Ratio Lower Upper

96 100

61 175.1 126.2 234.4

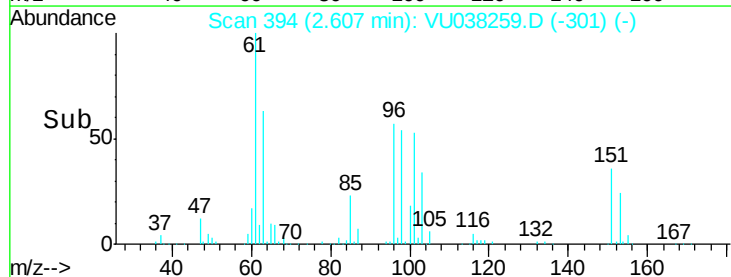
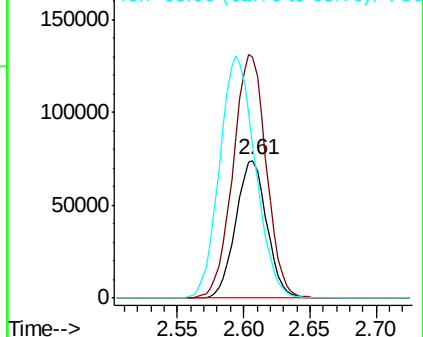
63 110.4 96.9 179.9

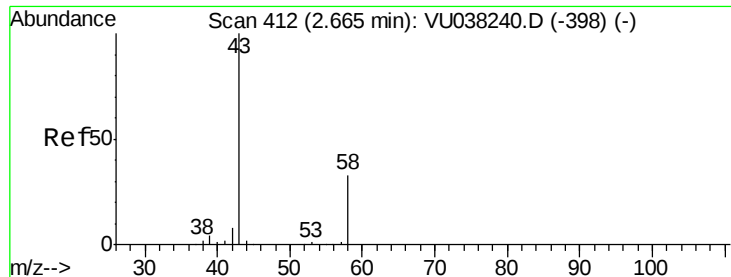


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 56.496 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.02 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

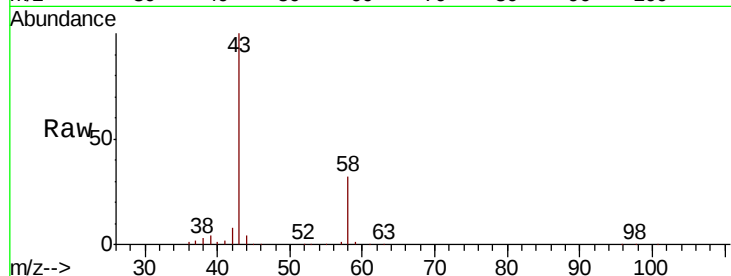
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 292371

Ion Ratio Lower Upper

43 100

58 32.8 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038240.D (-398) (-)

Ion 58.05 (57.75 to 58.75): VU038240.D (-398) (-)

2.68

80000

60000

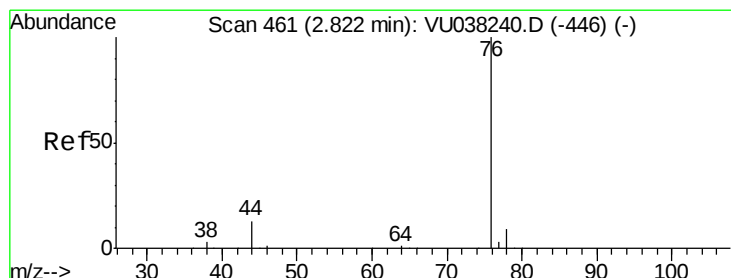
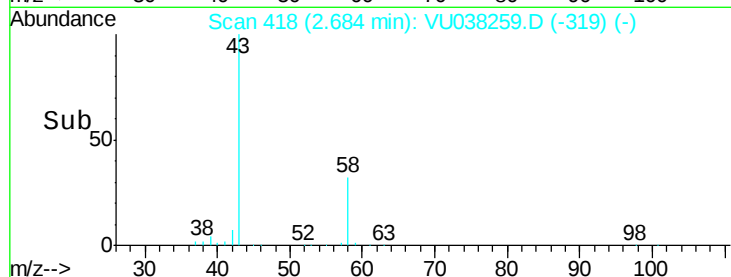
40000

20000

0

2.60 2.70 2.80 2.90

Time-->



#14

Carbon disulfide

Concen: 4.203 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038259.D

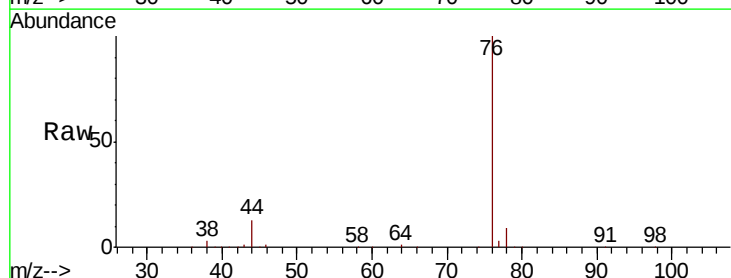
Acq: 21 May 2020 12:36

Tgt Ion: 76 Resp: 380315

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU038240.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038240.D (-446) (-)

2.82

250000

200000

150000

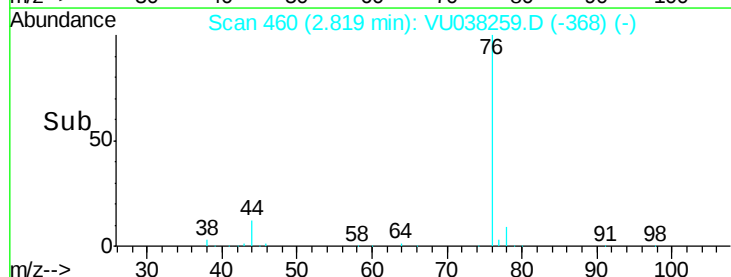
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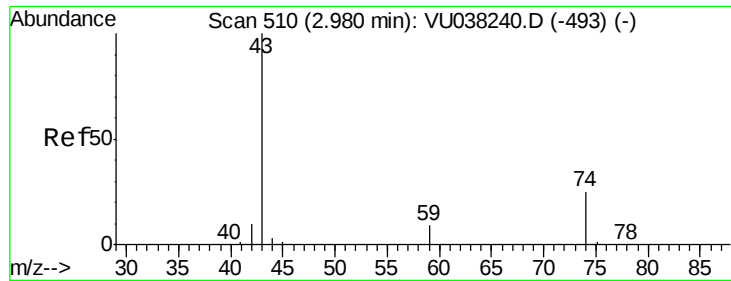
50000

0

2.80 2.90

Time-->





#15

Methyl Acetate

Concen: 4.630 ug/L

RT: 2.99 min Scan# 513

Delta R.T. 0.01 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

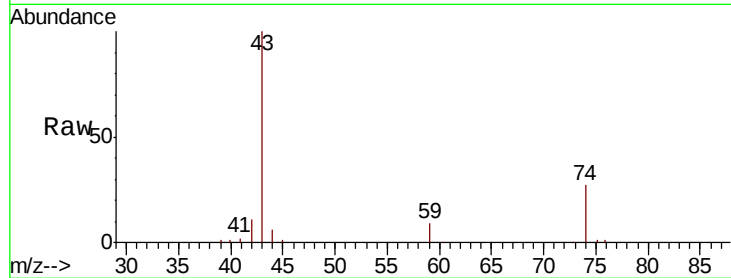
ClientSampleId :

Tot Ion: 43 Resp: 67028

Ion Ratio Lower Upper

43 100

74 26.4 18.0 27.0



Abundance Ion 43.05 (42.75 to 43.75): VU038240.D (-493) (-)

Ion 74.05 (73.75 to 74.75): VU038240.D (-493) (-)

2.99

30000

25000

20000

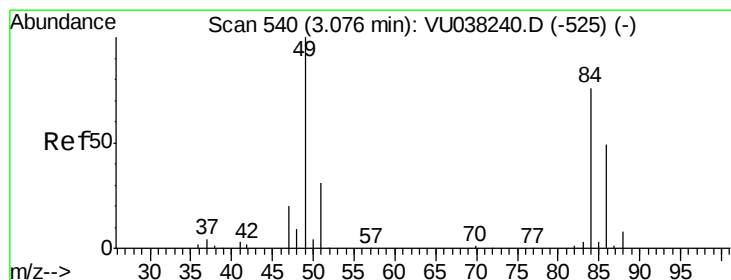
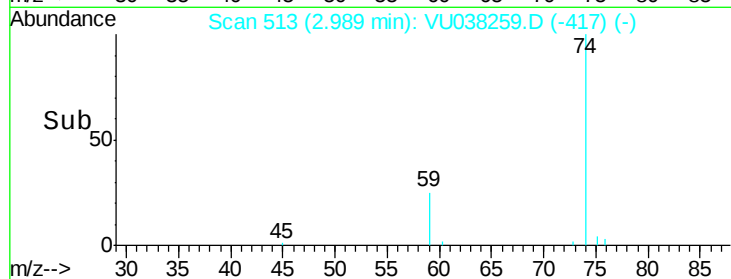
15000

10000

5000

0

Time-->



#16

Methylene chloride

Concen: 4.763 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

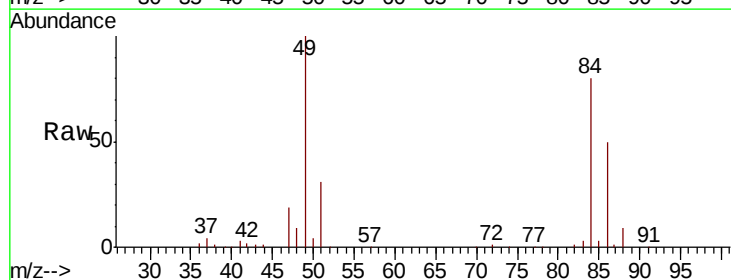
Tgt Ion: 84 Resp: 140829

Ion Ratio Lower Upper

84 100

86 62.4 44.9 83.3

49 125.1 92.0 170.9



Abundance Ion 84.05 (83.75 to 84.75): VU038240.D (-525) (-)

Ion 86.00 (85.70 to 86.70): VU038240.D (-525) (-)

Ion 49.10 (48.80 to 49.80): VU038240.D (-525) (-)

120000

100000

80000

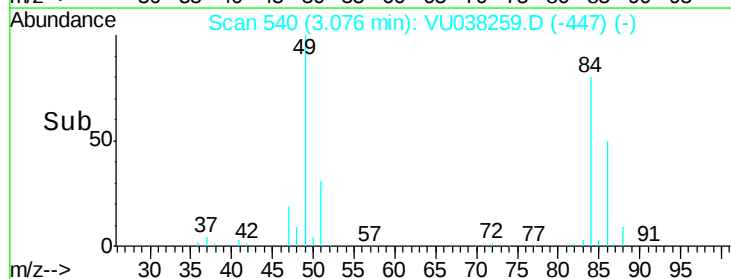
60000

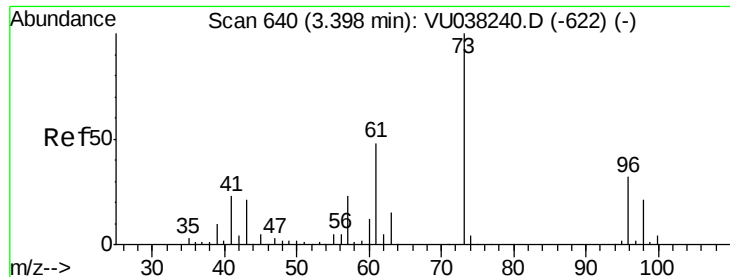
40000

20000

0

Time-->

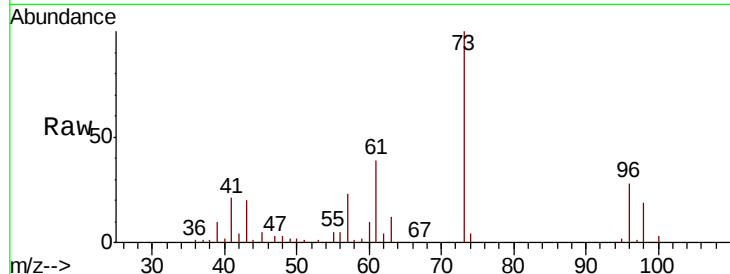




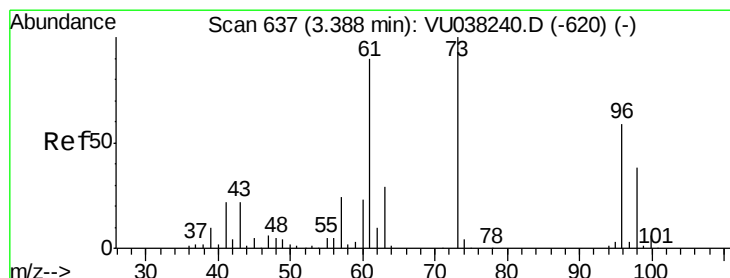
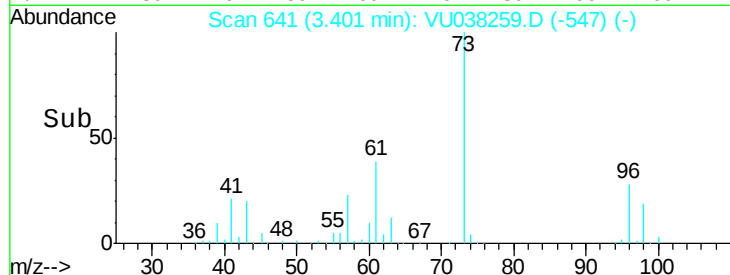
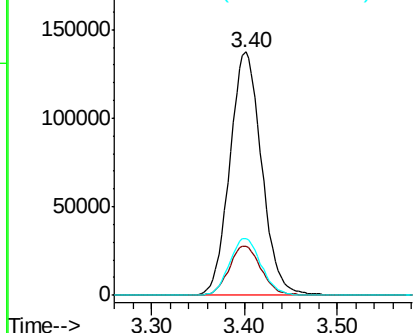
#17
Methvl tert-butvl Ether
Concen: 4.647 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 327482
Ion Ratio Lower Upper
73 100
43 20.5 16.9 25.3
57 23.3 18.2 27.2

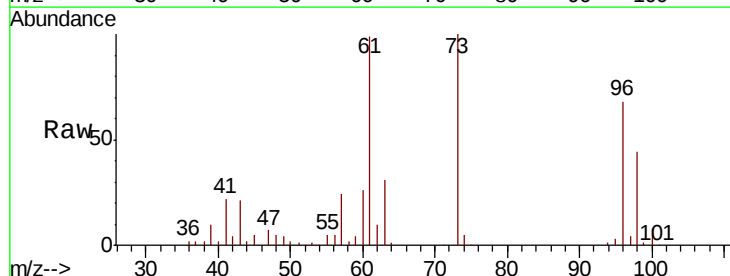


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

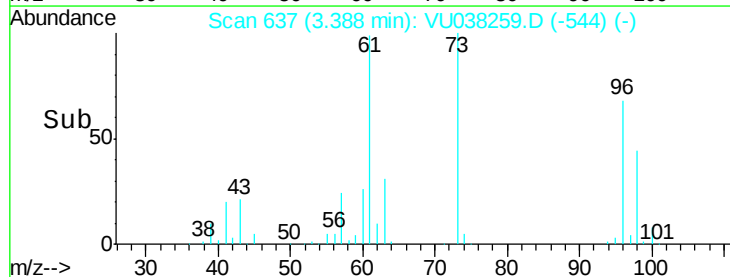
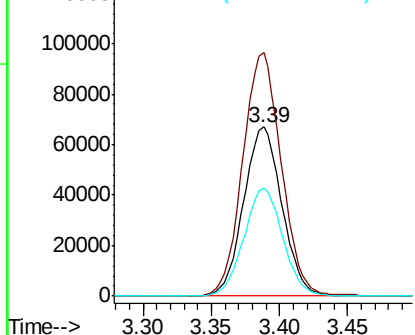


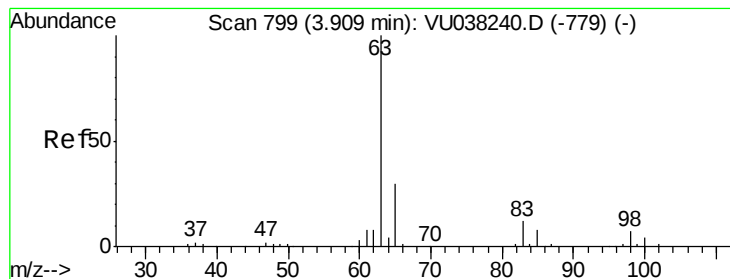
#18
trans-1,2-Dichloroethene
Concen: 4.728 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Tgt Ion: 96 Resp: 130937
Ion Ratio Lower Upper
96 100
61 144.0 102.1 189.5
98 63.8 45.6 84.8



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: 4.790 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

ClientSampled :

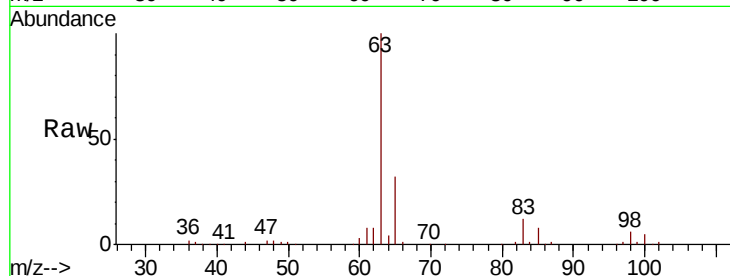
Tot Ion: 63 Resp: 259058

Ion Ratio Lower Upper

63 100

65 32.4 22.5 41.7

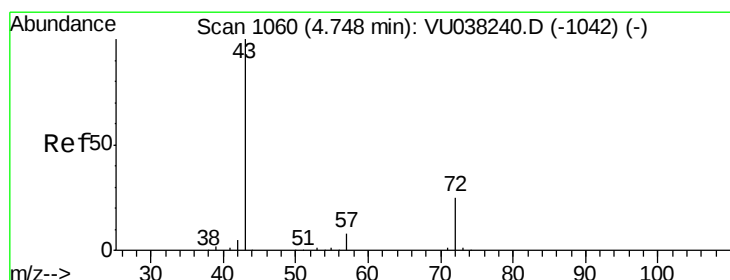
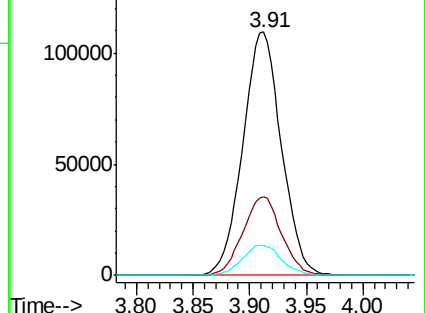
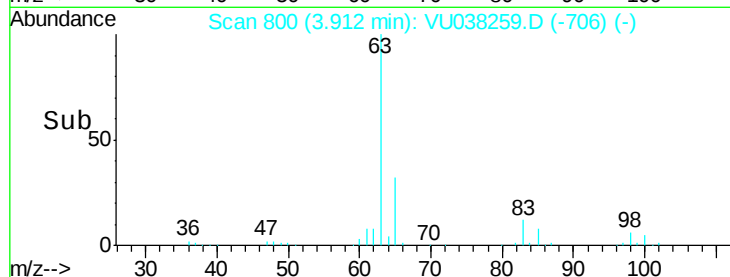
83 12.2 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU038259.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU038259.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU038259.D (-706) (-)



#21

2-Butanone

Concen: 53.738 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VU038259.D

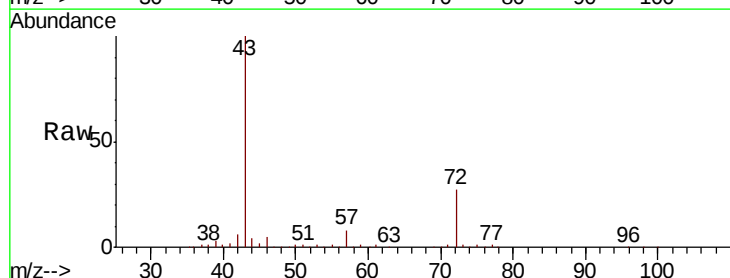
Acq: 21 May 2020 12:36

Tgt Ion: 43 Resp: 490862

Ion Ratio Lower Upper

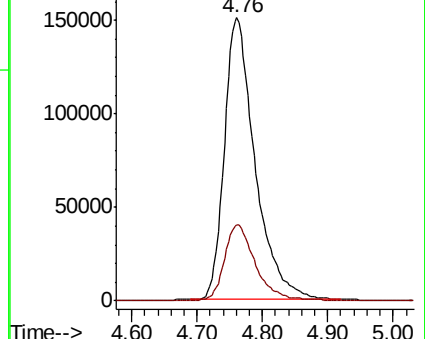
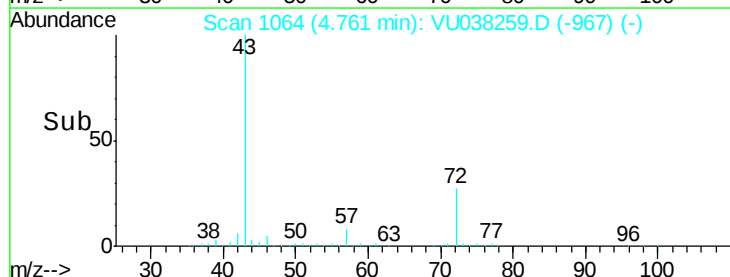
43 100

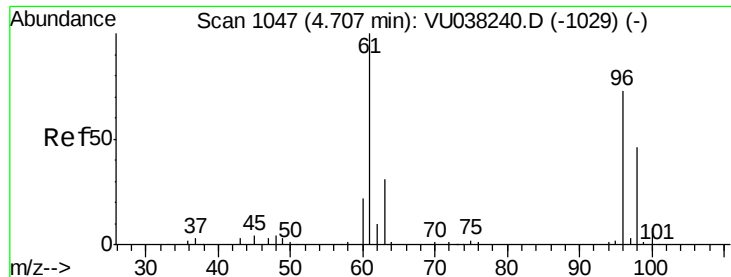
72 27.6 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU038259.D (-967) (-)

Ion 72.10 (71.80 to 72.80): VU038259.D (-967) (-)

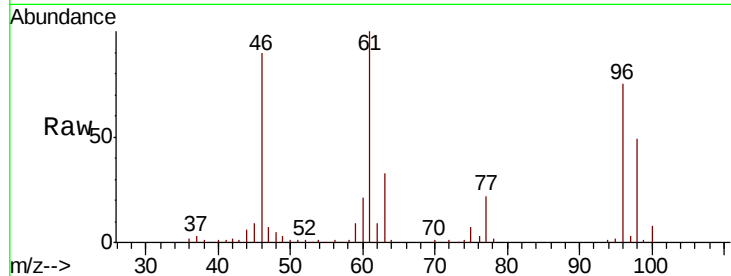




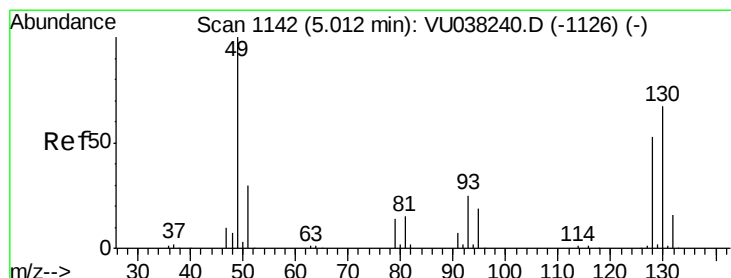
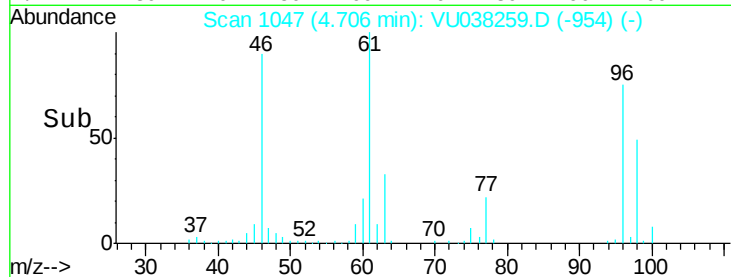
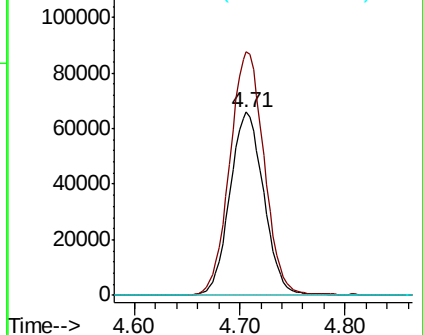
#22
 cis-1,2-Dichloroethene
 Concen: 4.918 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 146751
 Ion Ratio Lower Upper
 96 100
 61 133.1 95.3 176.9
 68 0.0 0.0 0.0

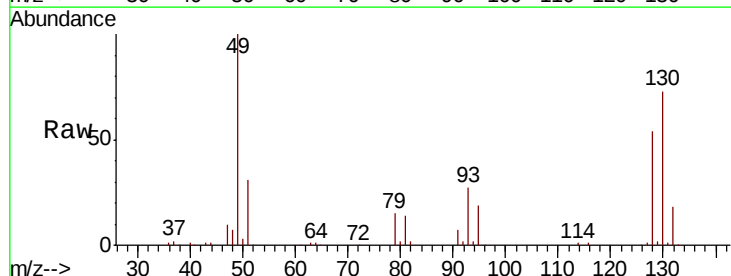


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

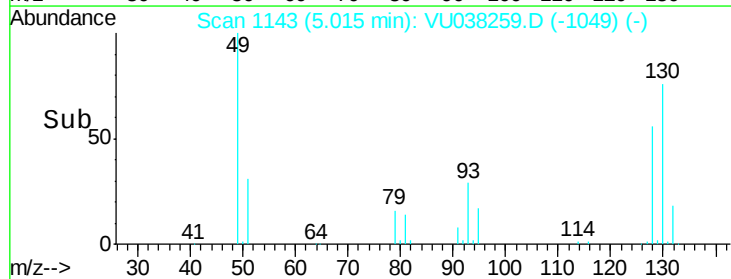
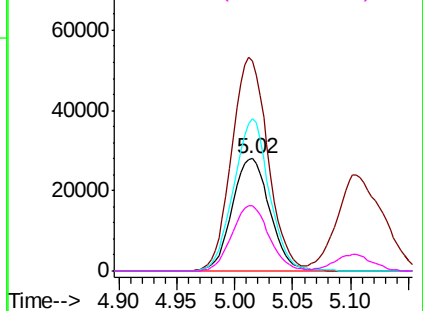


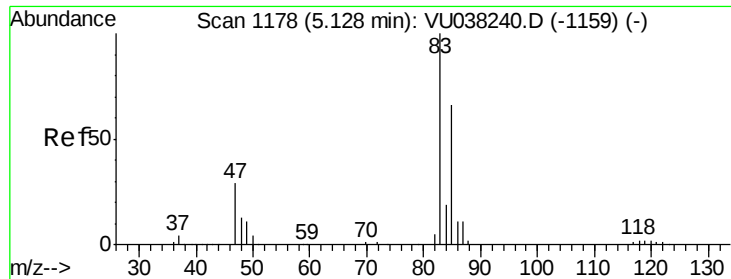
#23
 Bromochloromethane
 Concen: 4.918 ug/L
 RT: 5.02 min Scan# 1143
 Delta R.T. 0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion: 128 Resp: 63152
 Ion Ratio Lower Upper
 128 100
 49 186.6 135.6 251.8
 130 135.5 91.4 169.8
 51 57.8 49.6 74.4



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

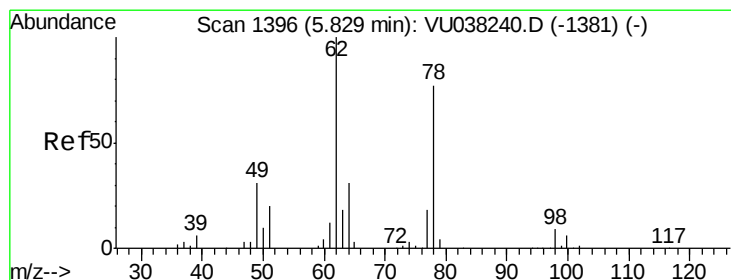
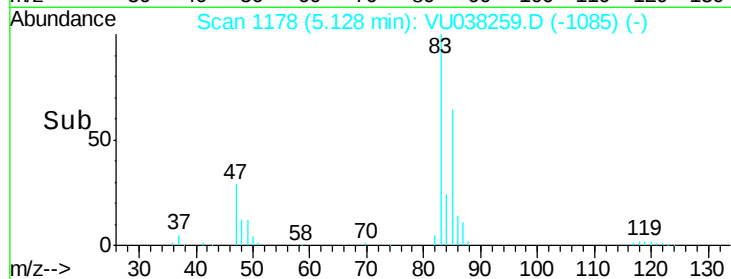
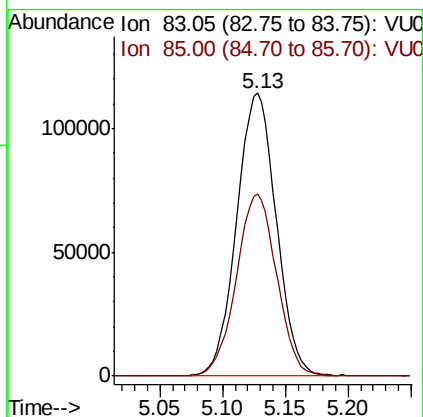
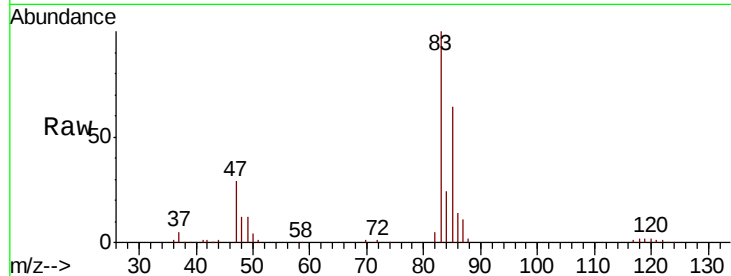




#25
Chloroform
Concen: 4.979 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

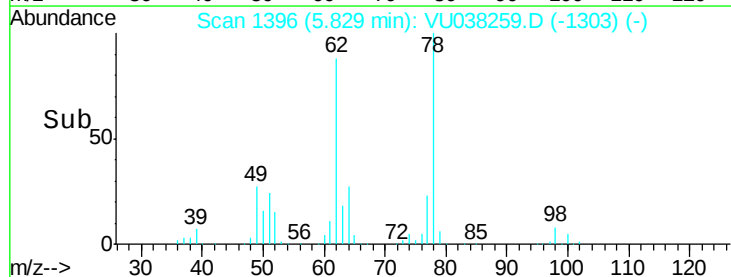
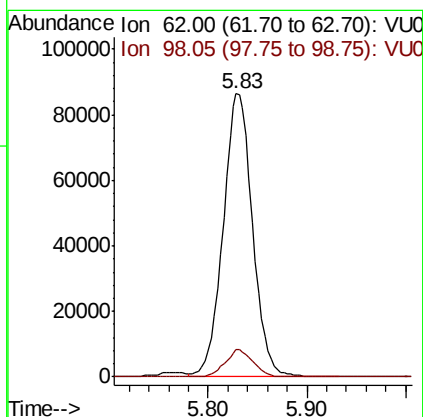
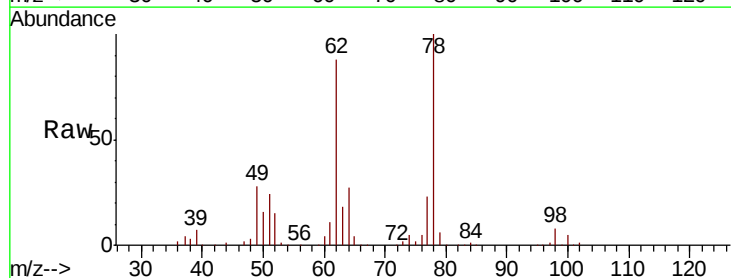
Instrument :
MSVOA_U
ClientSampled :

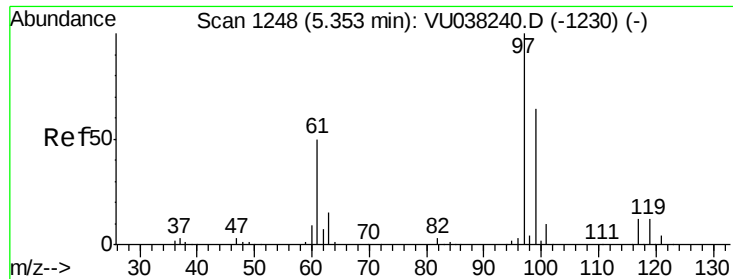
Tot Ion: 83 Resp: 251179
Ion Ratio Lower Upper
83 100
85 64.3 46.2 85.8



#27
1,2-Dichloroethane
Concen: 5.040 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Tgt Ion: 62 Resp: 179466
Ion Ratio Lower Upper
62 100
98 9.5 7.8 11.8

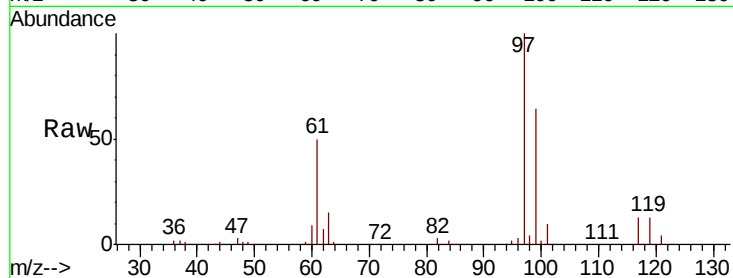




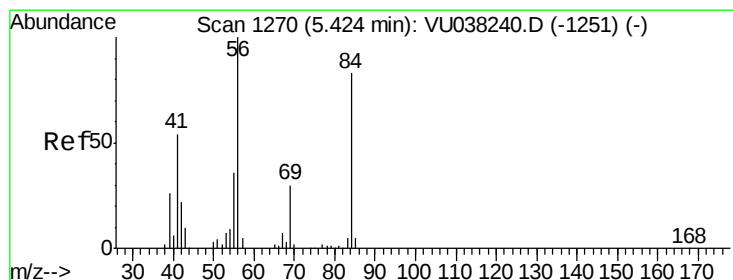
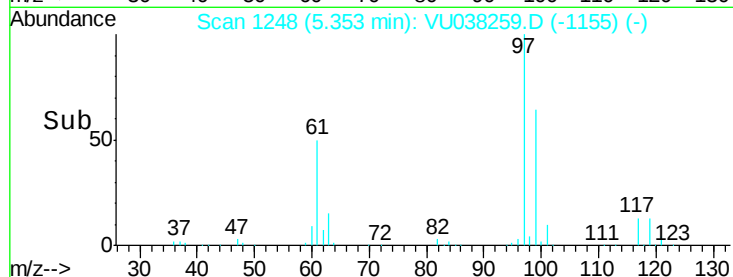
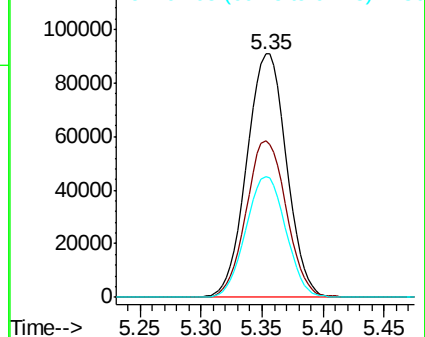
#29
 1,1,1-Trichloroethane
 Concen: 4.981 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	97	Resp	204932
Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.0	76.4
61	49.8	38.2	57.4

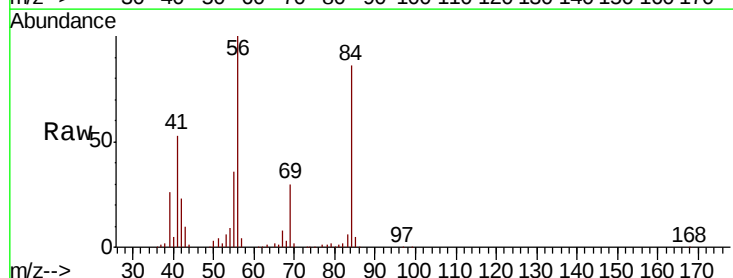


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

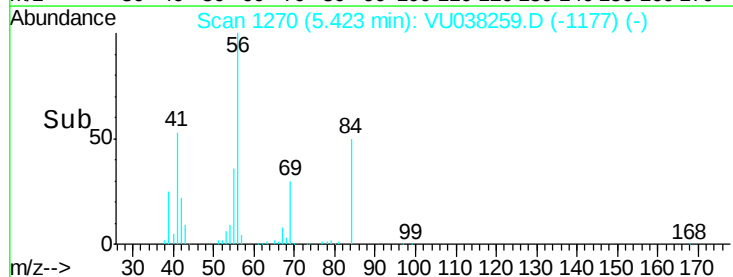
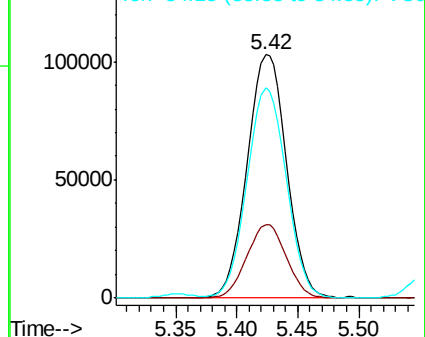


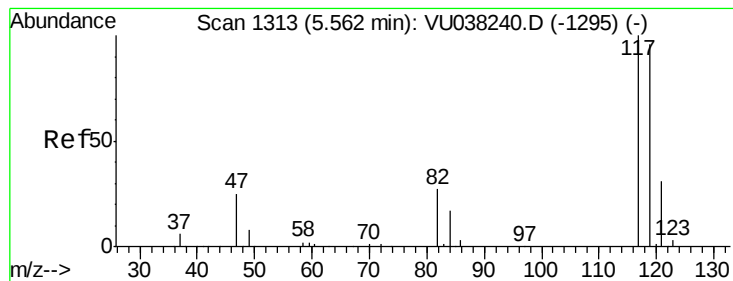
#30
 Cyclohexane
 Concen: 4.742 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion	56	Resp	230378
Ion	Ratio	Lower	Upper
56	100		
69	30.3	24.2	36.4
84	86.0	68.5	102.7



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: 5.056 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

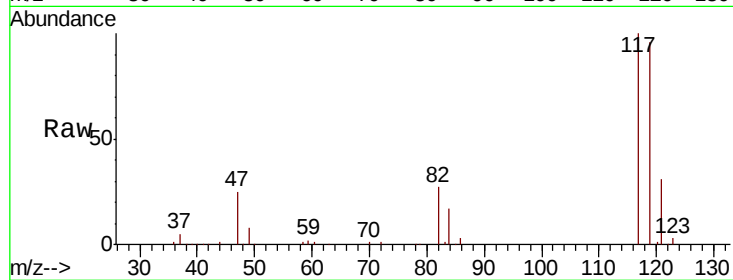
ClientSampleId :

Tot Ion:117 Resp: 167184

Ion Ratio Lower Upper

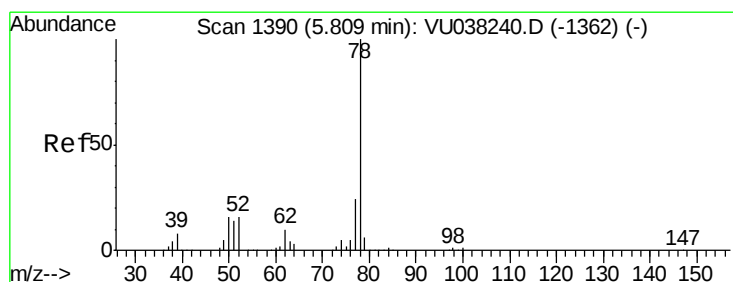
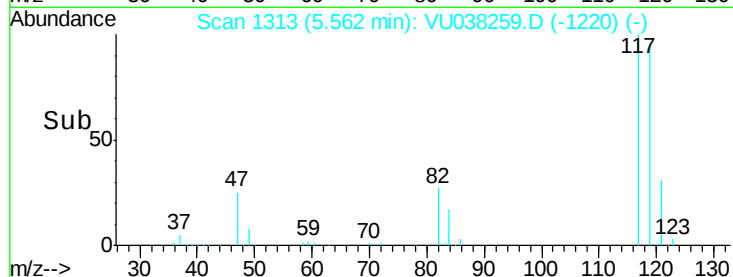
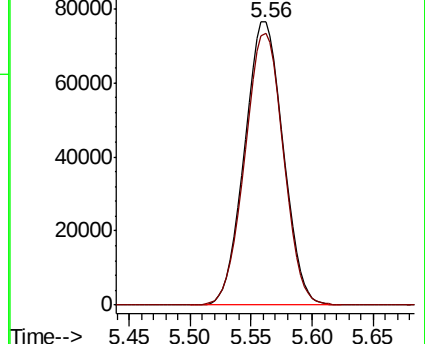
117 100

119 95.8 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.948 ug/L

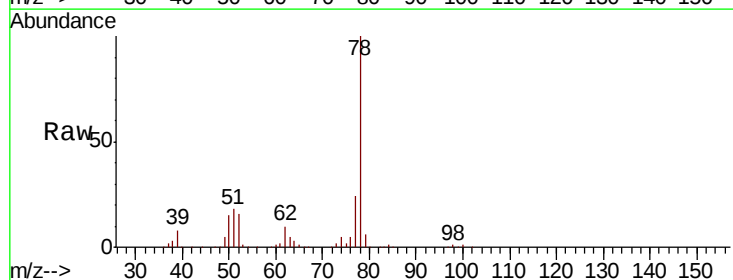
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

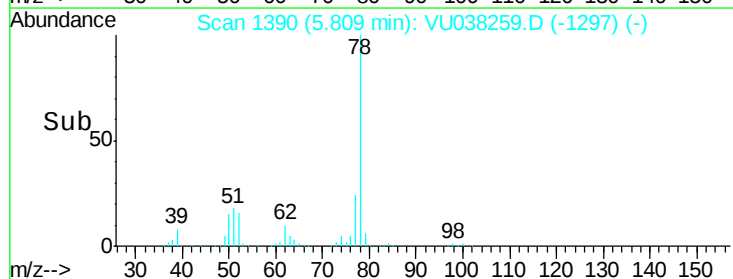
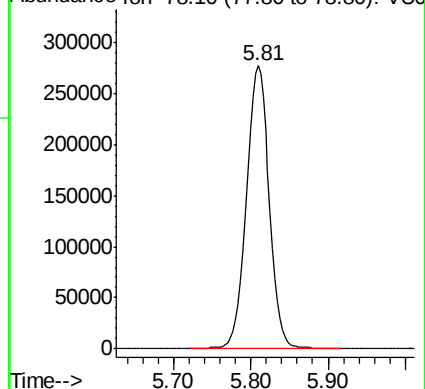
Lab File: VU038259.D

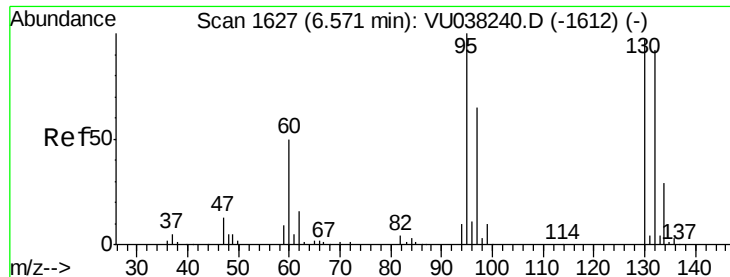
Acq: 21 May 2020 12:36

Tgt Ion: 78 Resp: 569072



Abundance Ion 78.10 (77.80 to 78.80): VU0

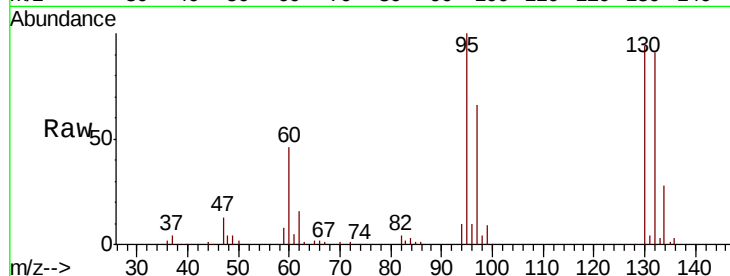




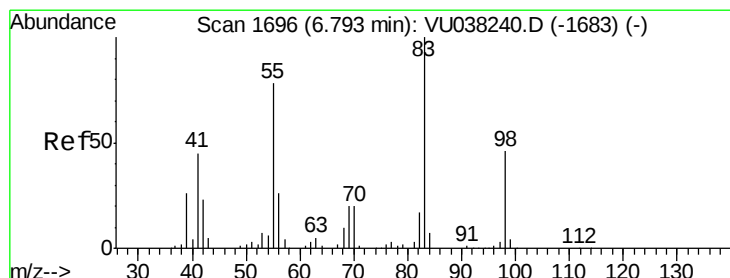
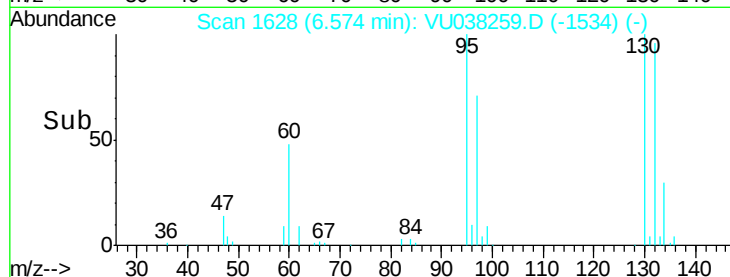
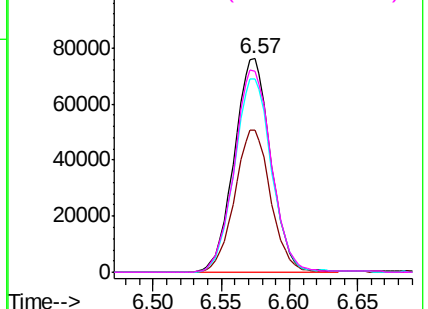
#34
 Trichloroethene
 Concen: 4.924 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 141640
 Ion Ratio Lower Upper
 95 100
 97 66.5 44.9 83.3
 132 90.8 63.3 117.5
 130 93.9 65.7 122.1

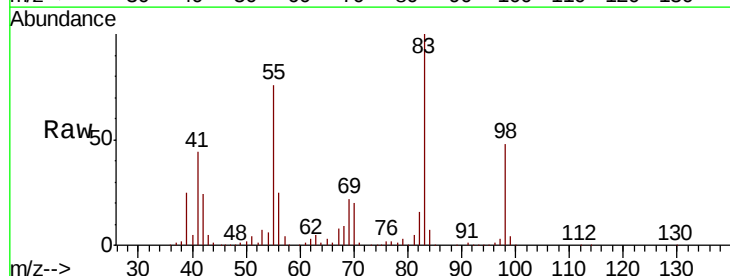


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

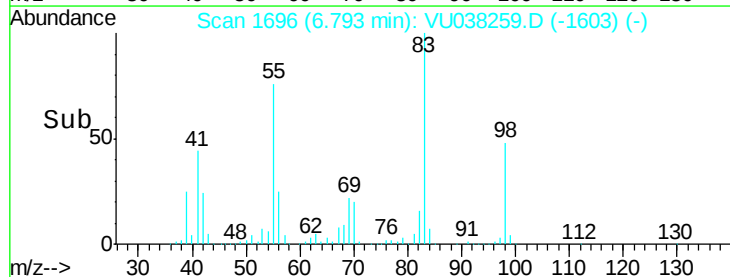
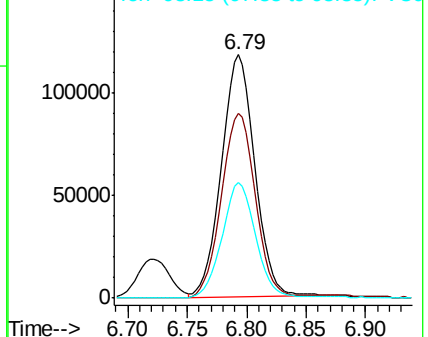


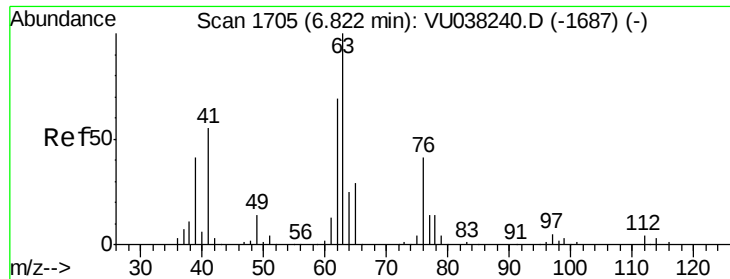
#35
 Methylcyclohexane
 Concen: 4.917 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion: 83 Resp: 229107
 Ion Ratio Lower Upper
 83 100
 55 78.2 66.7 100.1
 98 47.7 39.4 59.2



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

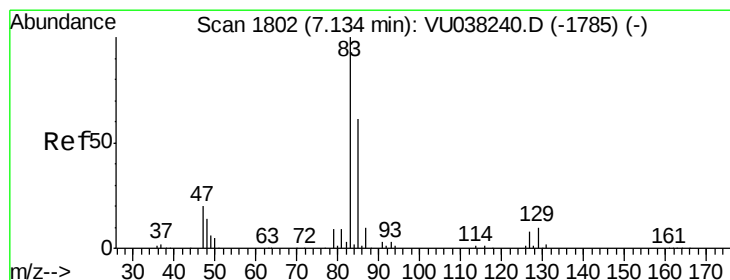
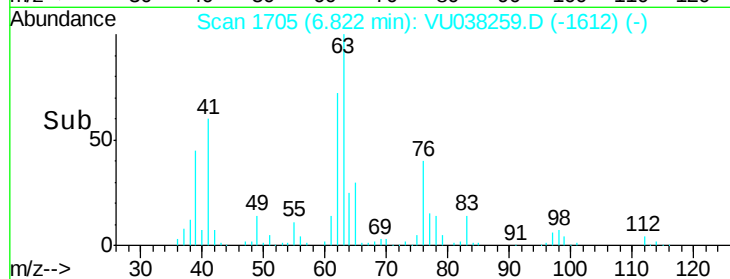
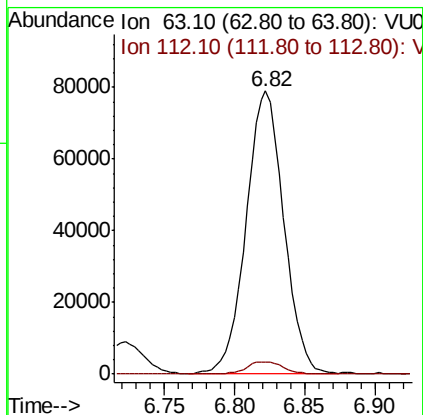
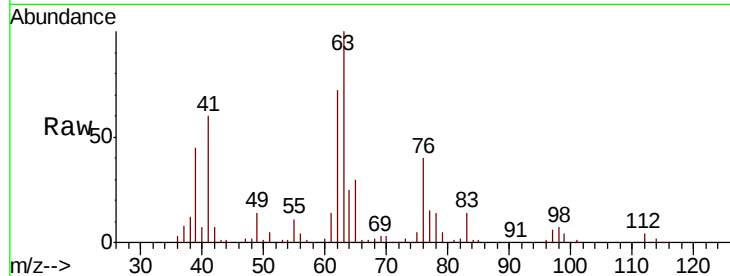




#37
 1,2-Dichloropropane
 Concen: 4.706 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

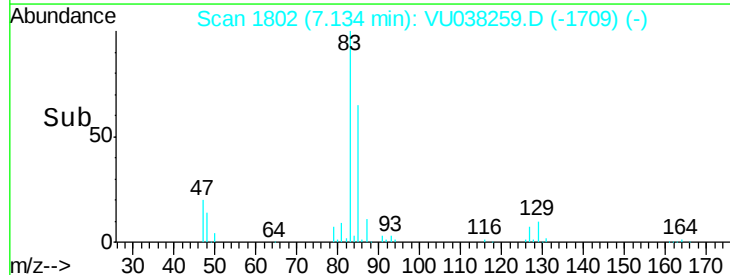
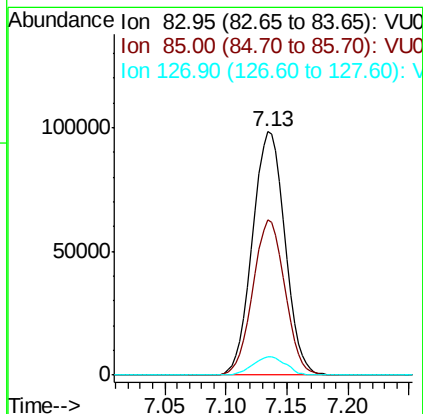
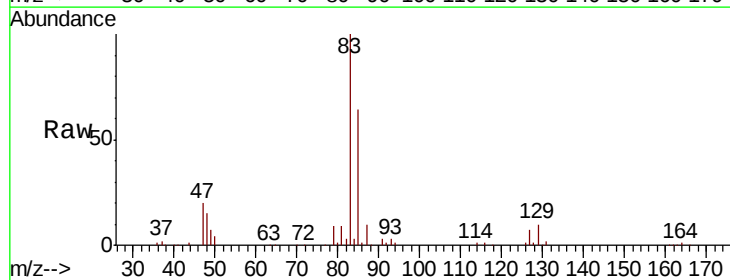
Instrument :
 MSVOA_U
 ClientSampled :

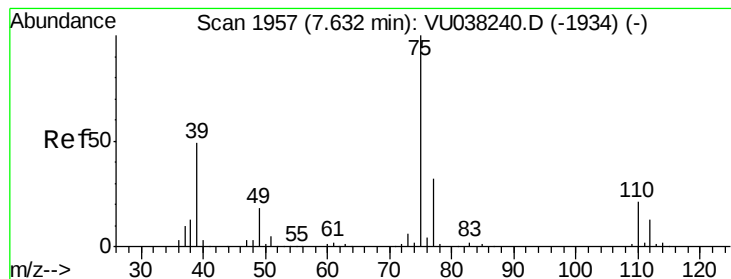
Tot Ion: 63 Resp: 146997
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.013 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion: 83 Resp: 181013
 Ion Ratio Lower Upper
 83 100
 85 63.6 44.6 82.8
 127 7.3 6.4 9.6



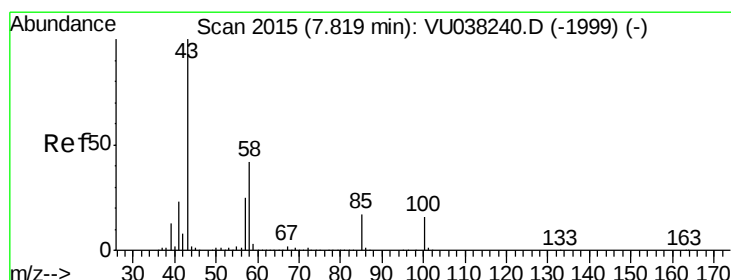
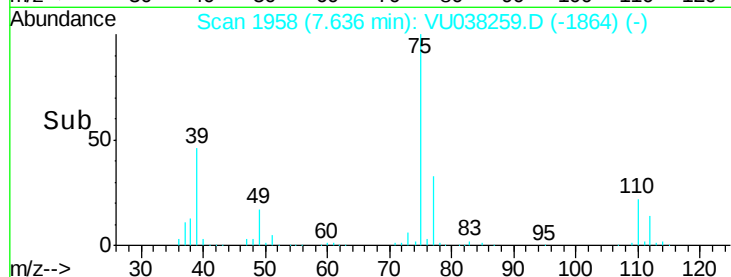
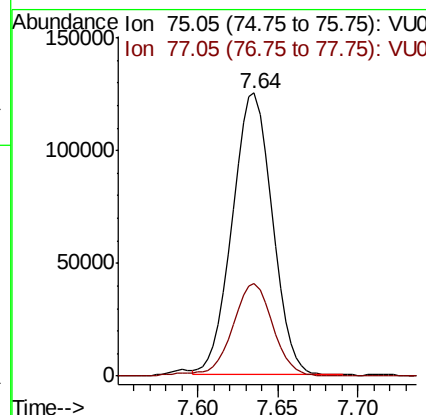
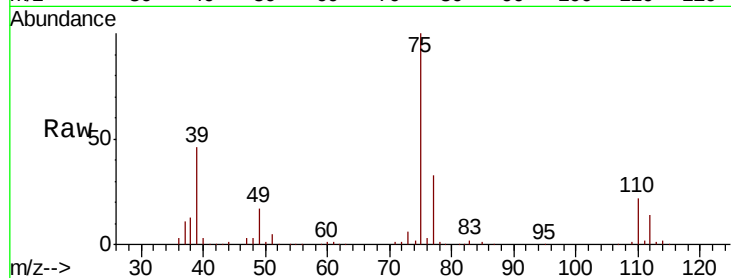


#39

cis-1,3-Dichloropropene
 Concen: 4.778 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Instrument :
 MSVOA_U
 ClientSampleId :

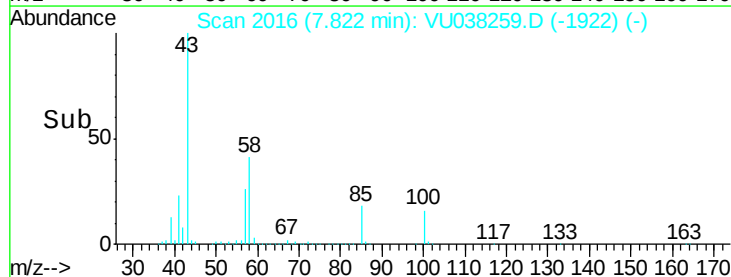
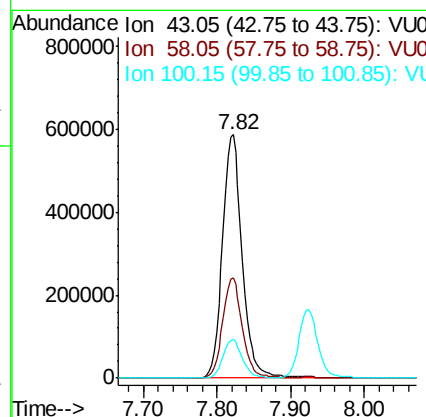
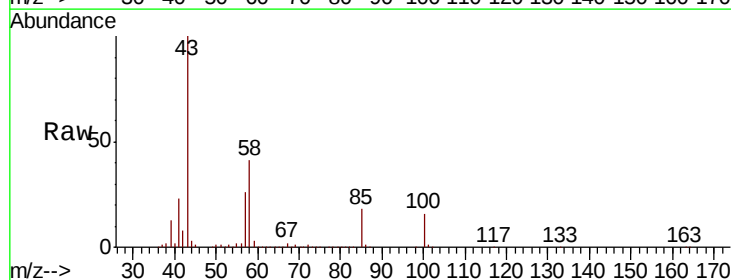
Tot Ion: 75 Resp: 213617
 Ion Ratio Lower Upper
 75 100
 77 32.6 22.4 41.6

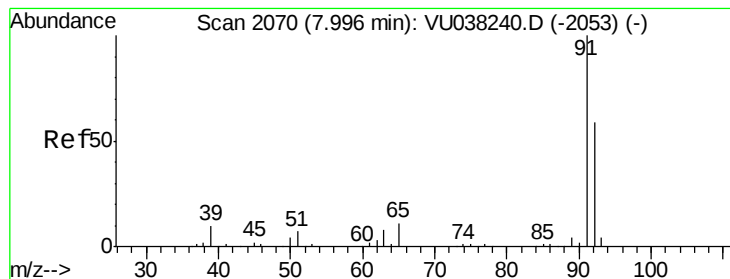


#40

4-Methyl-2-pentanone
 Concen: 50.358 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion: 43 Resp: 1090223
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.2 48.4
 100 15.6 12.1 18.1





#42

Toluene

Concen: 4.881 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

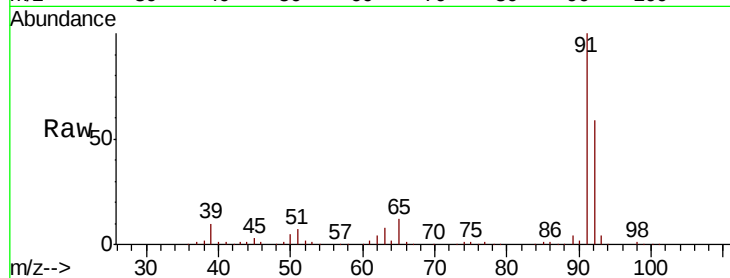
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 592486

Ion Ratio Lower Upper

91 100

92 59.4 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038240.D (-2053) (-)

Ion 92.15 (91.85 to 92.85): VU038240.D (-2053) (-)

8.00

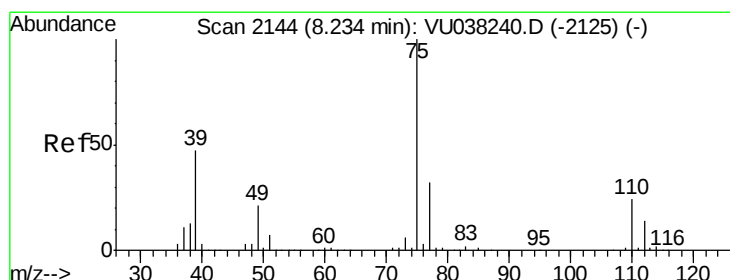
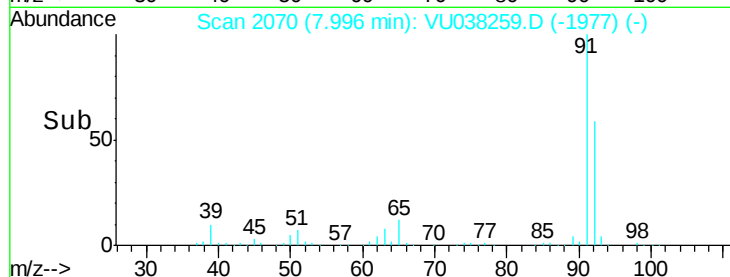
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.948 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU038259.D

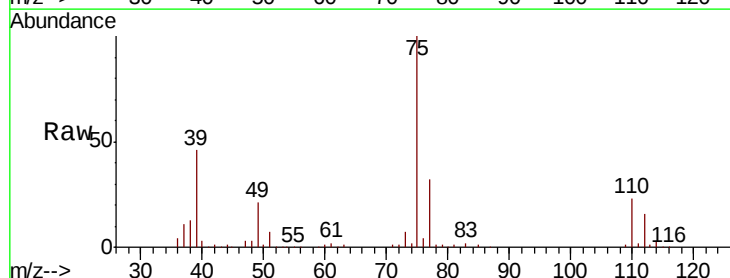
Acq: 21 May 2020 12:36

Tgt Ion: 75 Resp: 188092

Ion Ratio Lower Upper

75 100

77 31.8 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU038240.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU038240.D (-2125) (-)

8.23

120000

100000

80000

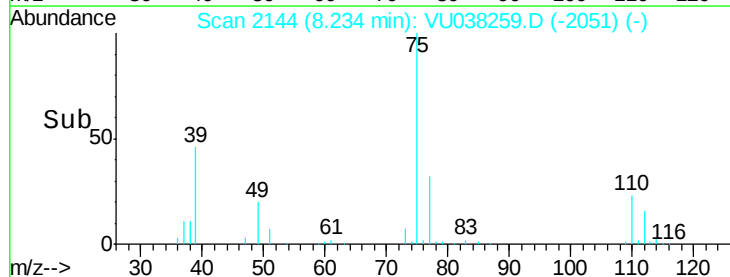
60000

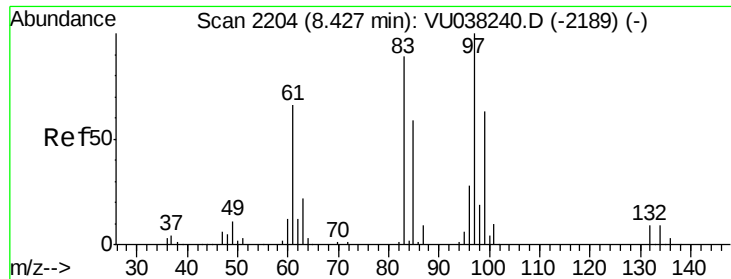
40000

20000

0

Time-->

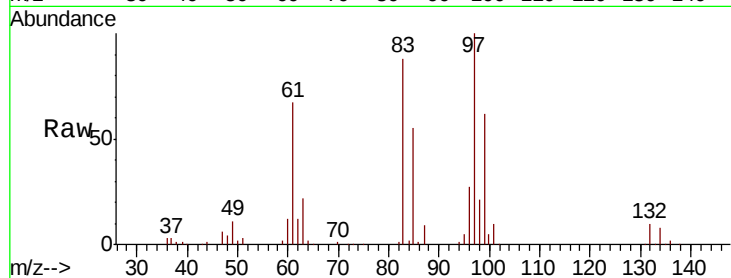




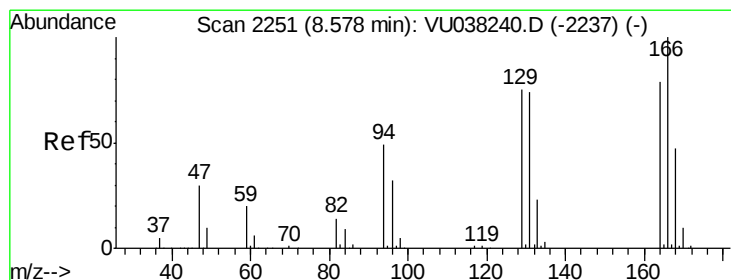
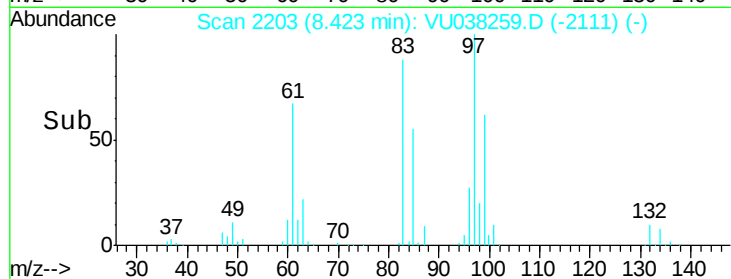
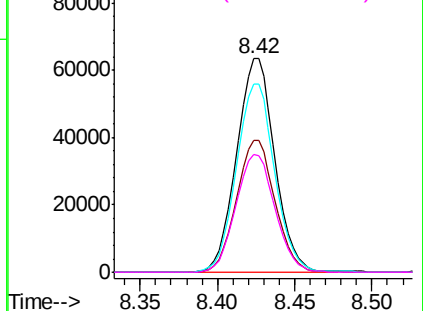
#45
1,1,2-Trichloroethane
Concen: 5.019 ug/L
RT: 8.42 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	97	Resp:	108866
Ion	Ratio	Lower	Upper
97	100		
99	62.0	44.0	81.6
83	88.1	59.6	110.8
85	55.4	41.3	76.7

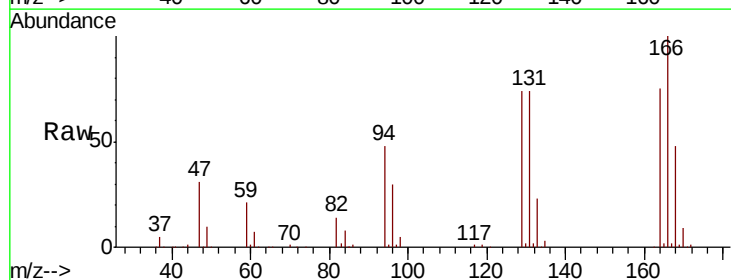


Abundance Ion 96.95 (96.65 to 97.65): VU038259.D (-2111) (-)
Ion 99.05 (98.75 to 99.75): VU038259.D (-2111) (-)
Ion 82.95 (82.65 to 83.65): VU038259.D (-2111) (-)
Ion 85.00 (84.70 to 85.70): VU038259.D (-2111) (-)

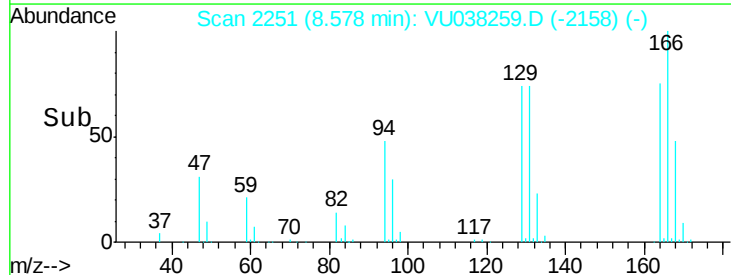
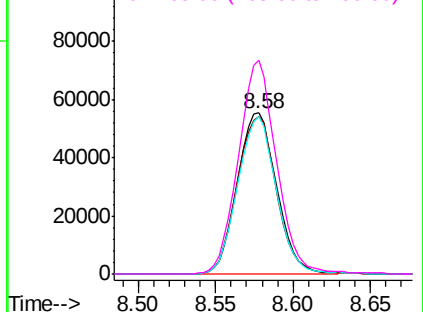


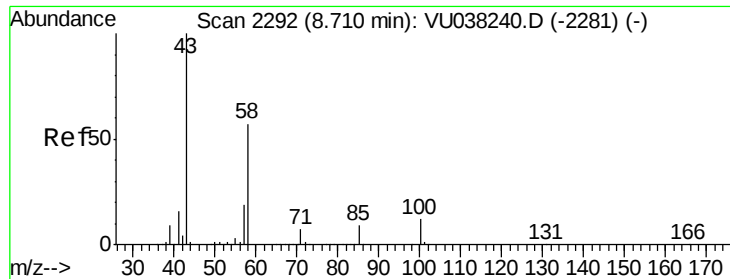
#47
Tetrachloroethene
Concen: 4.857 ug/L
RT: 8.58 min Scan# 2251
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Tgt Ion:	164	Resp:	97721
Ion	Ratio	Lower	Upper
164	100		
129	97.9	68.8	127.8
131	97.7	66.8	124.2
166	132.5	88.9	165.1



Abundance Ion 163.90 (163.60 to 164.60): VU038259.D (-2158) (-)
Ion 128.95 (128.65 to 129.65): VU038259.D (-2158) (-)
Ion 130.95 (130.65 to 131.65): VU038259.D (-2158) (-)
Ion 165.90 (165.60 to 166.60): VU038259.D (-2158) (-)

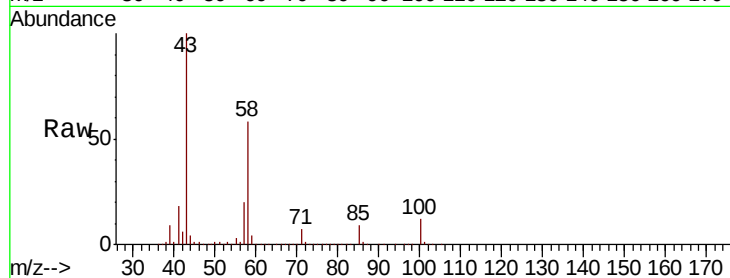




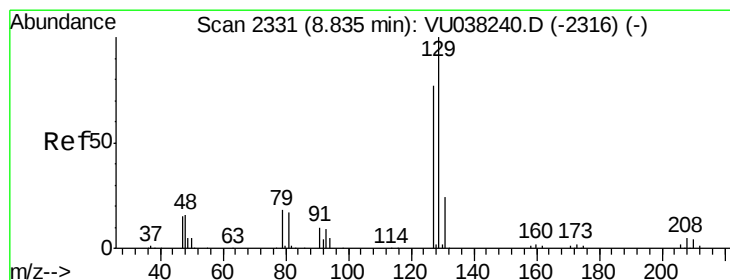
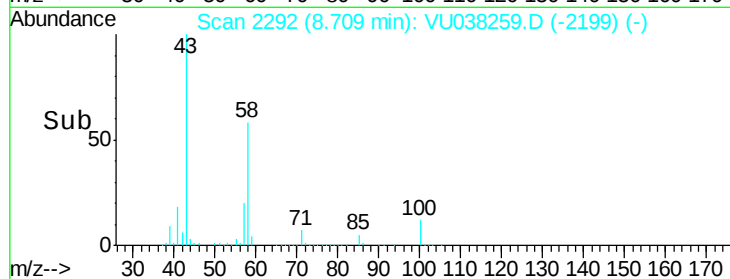
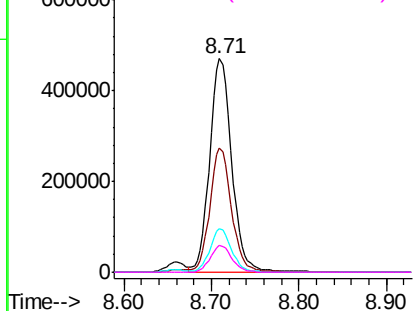
#48
2-Hexanone
Concen: 52.089 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 825857
Ion Ratio Lower Upper
43 100
58 57.1 45.2 67.8
57 19.7 15.5 23.3
100 12.3 9.5 14.3

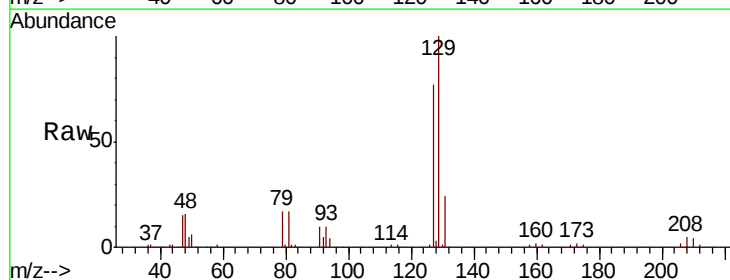


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

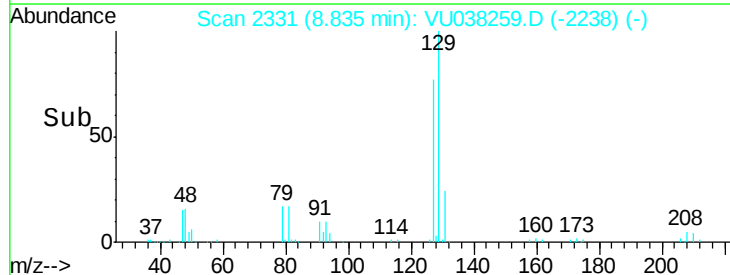
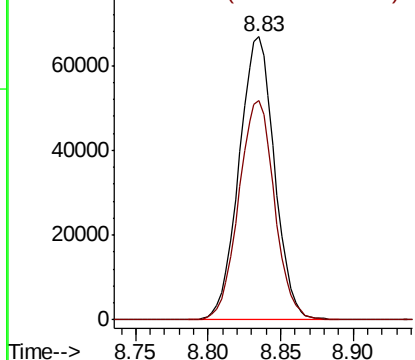


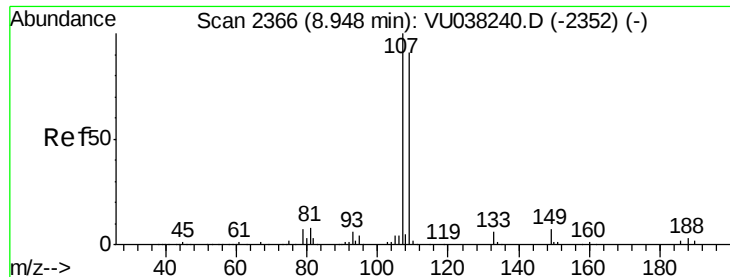
#49
Dibromochloromethane
Concen: 5.039 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Tgt Ion: 129 Resp: 113446
Ion Ratio Lower Upper
129 100
127 77.3 55.6 103.4



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

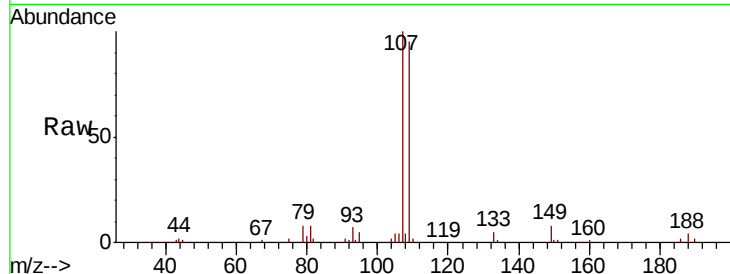




#50
1,2-Dibromoethane
Concen: 5.057 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.1	120.9
188	3.6	2.6	4.0

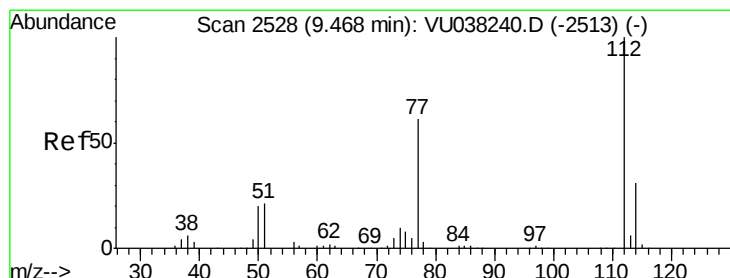
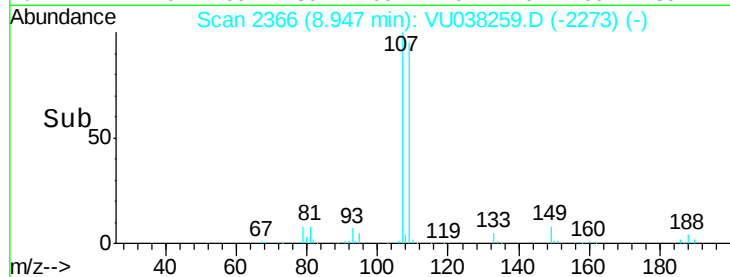
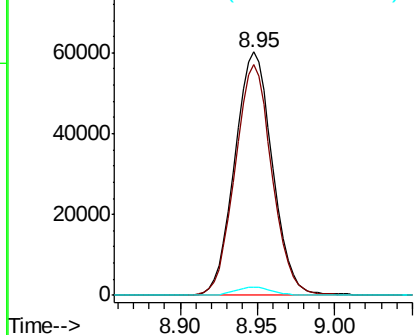


Abundance

Ion 106.95 (106.65 to 107.65): V

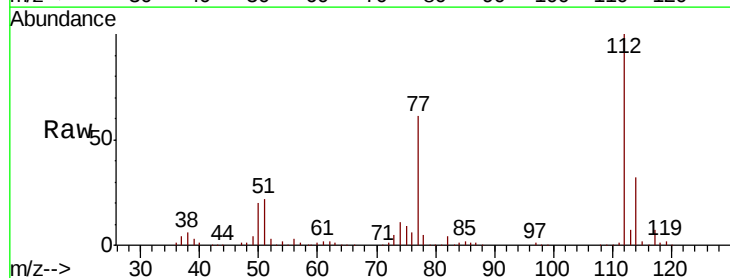
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 5.050 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.5	41.7
77	60.9	49.9	74.9

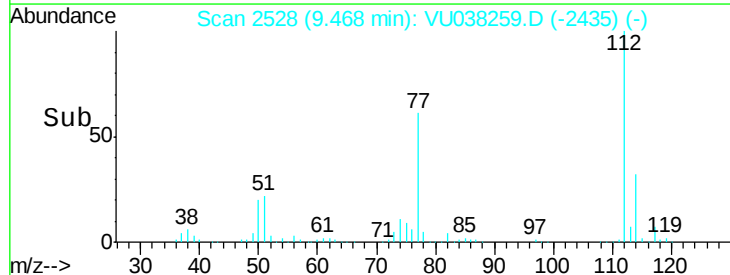
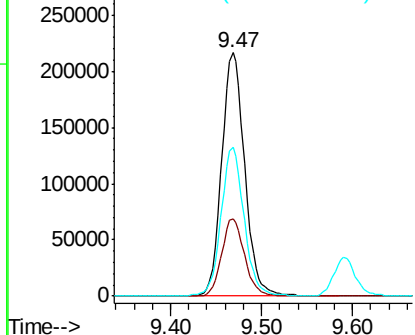


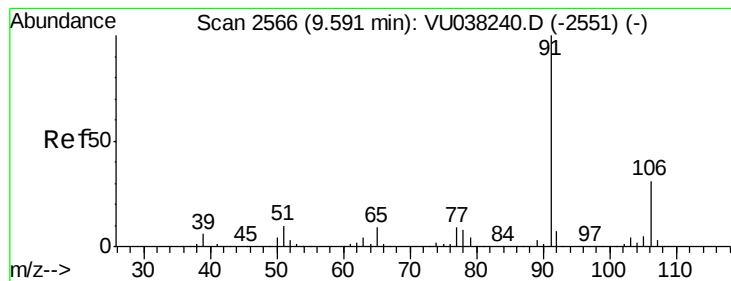
Abundance

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): VU





#52

Ethylbenzene

Concen: 5.033 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

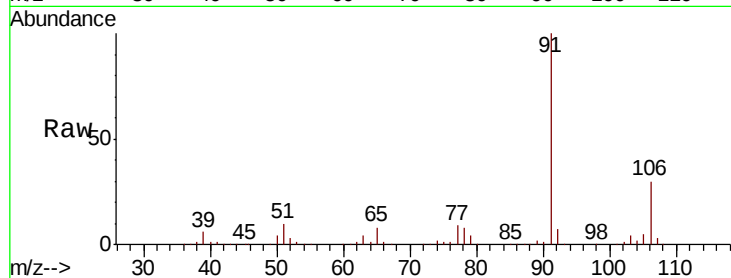
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 661799

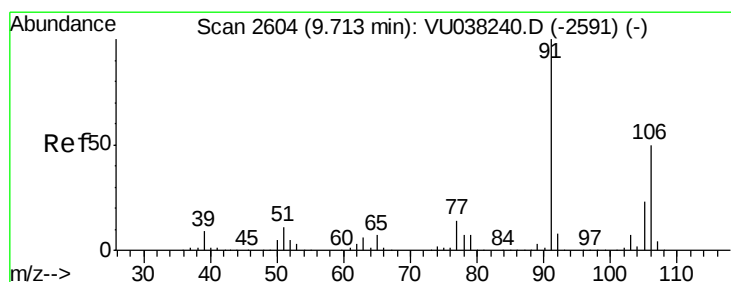
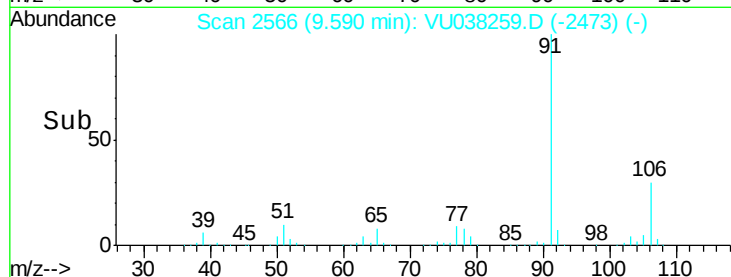
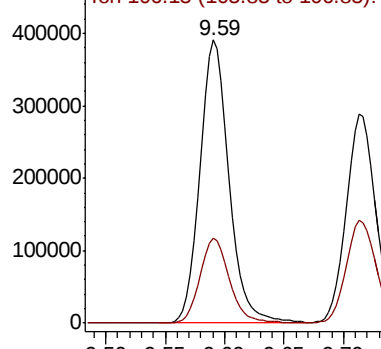
Ion Ratio Lower Upper

91 100

106 29.9 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU038240.D (-2551) (-)



#53

m,p-Xylene

Concen: 5.007 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU038259.D

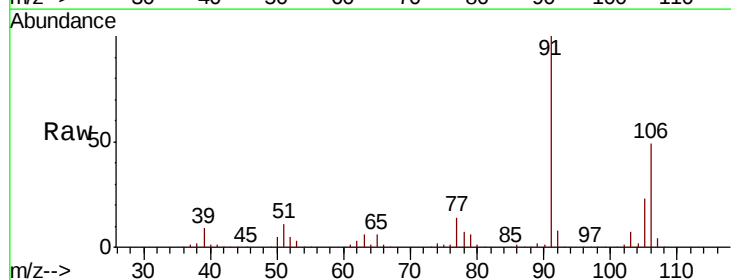
Acq: 21 May 2020 12:36

Tgt Ion: 106 Resp: 252466

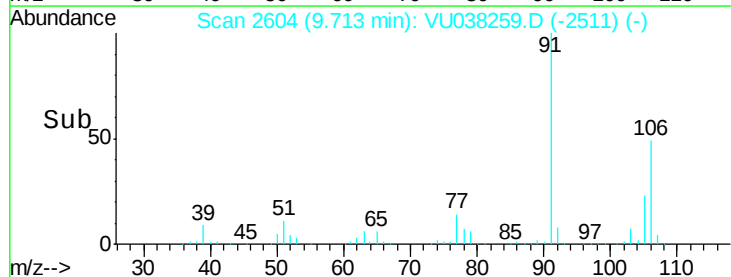
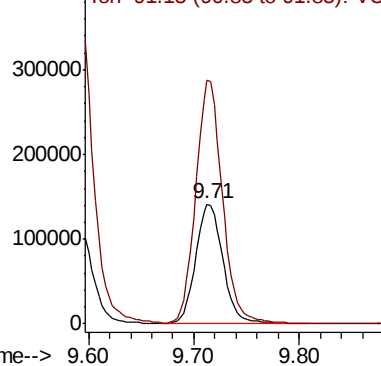
Ion Ratio Lower Upper

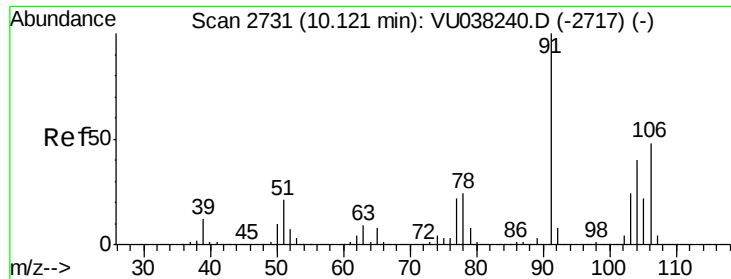
106 100

91 203.5 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): VU038240.D (-2591) (-)

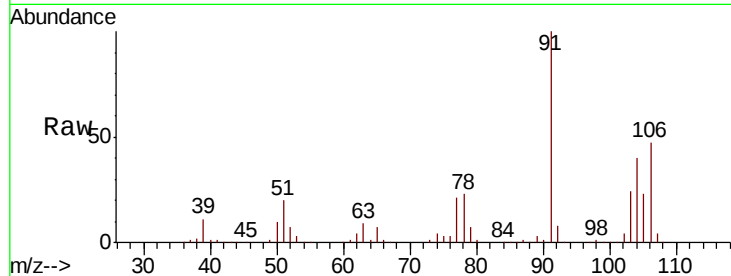




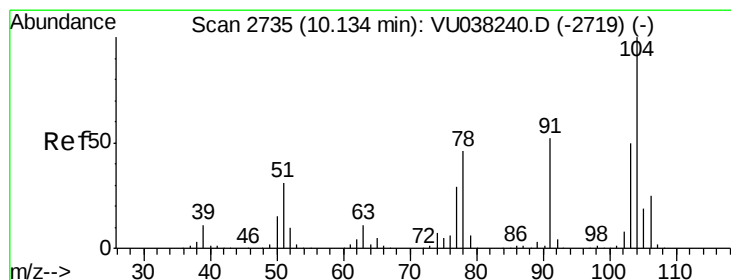
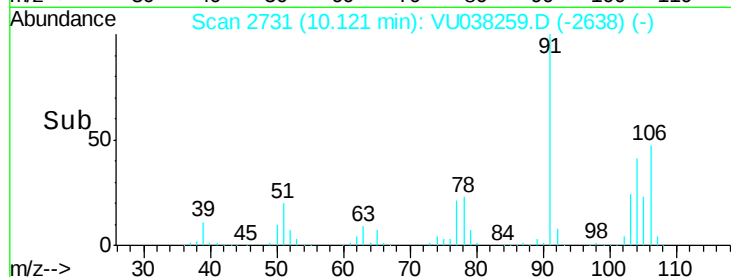
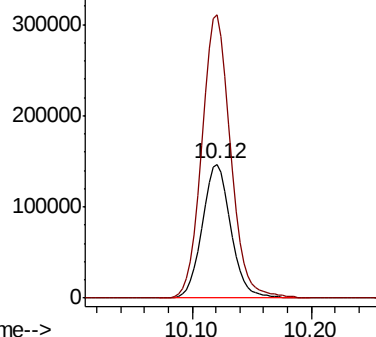
#54
o-Xylene
Concen: 5.020 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 244731
Ion Ratio Lower Upper
106 100
91 211.0 148.5 275.9

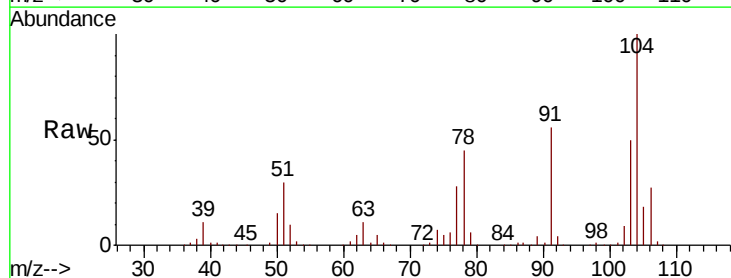


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

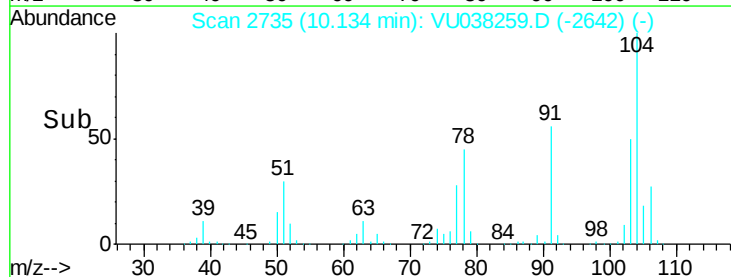
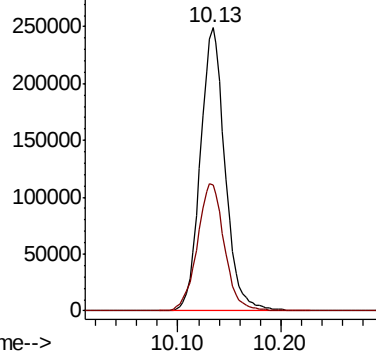


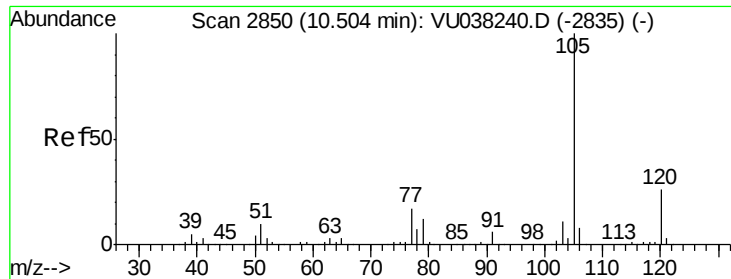
#55
Styrene
Concen: 5.091 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU038259.D
Acq: 21 May 2020 12:36

Tgt Ion:104 Resp: 416661
Ion Ratio Lower Upper
104 100
78 44.6 32.3 59.9



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





#56

Isopropylbenzene

Concen: 5.145 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

ClientSampleId :

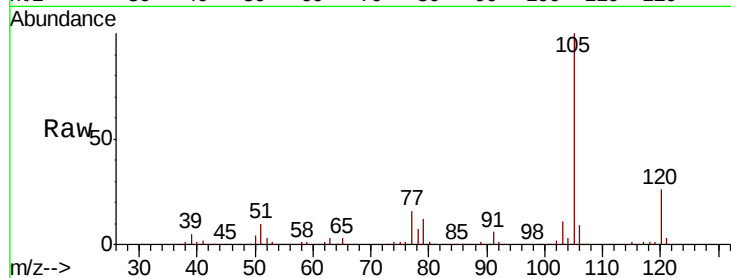
Tot Ion:105 Resp: 644341

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.6

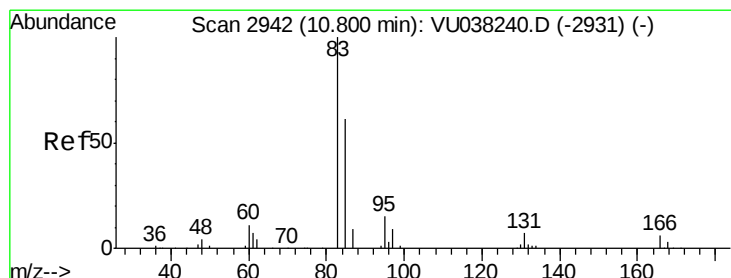
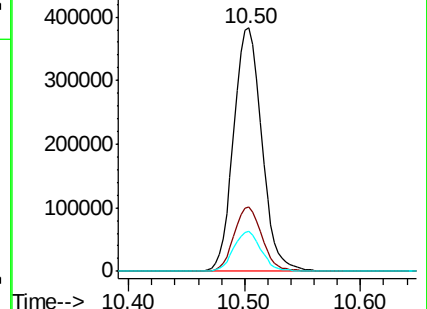
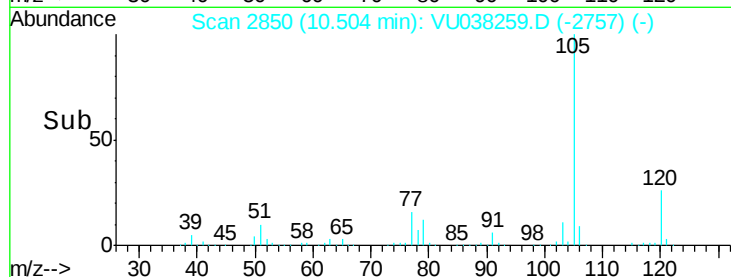
77 16.1 13.0 19.4



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: 5.072 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

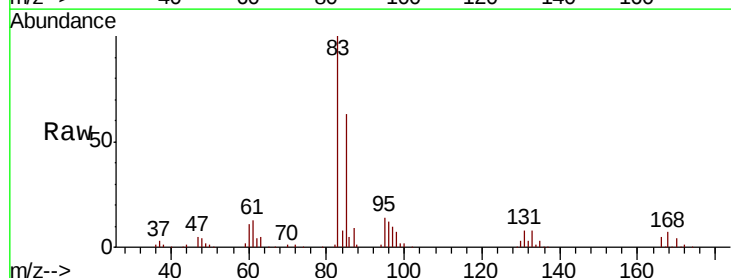
Tgt Ion: 83 Resp: 139695

Ion Ratio Lower Upper

83 100

85 62.7 47.0 87.2

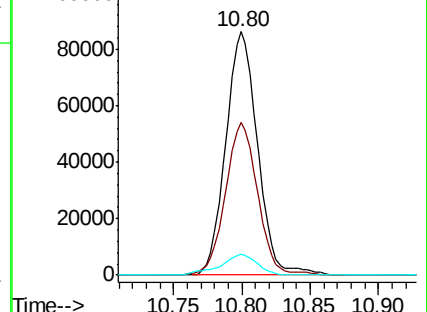
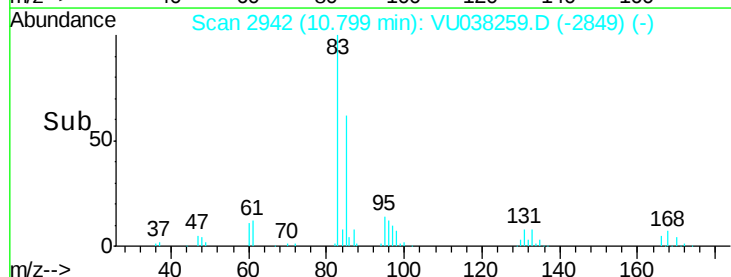
131 8.3 7.7 11.5

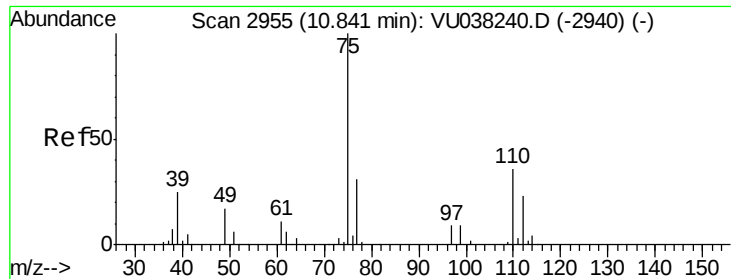


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

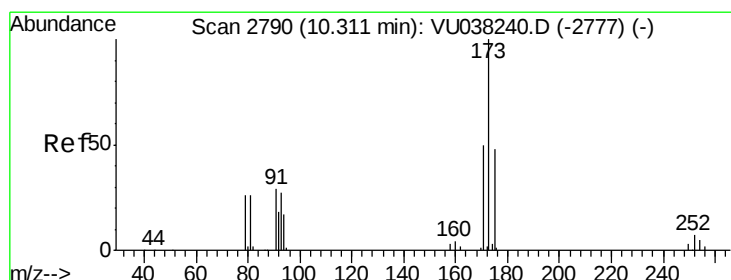
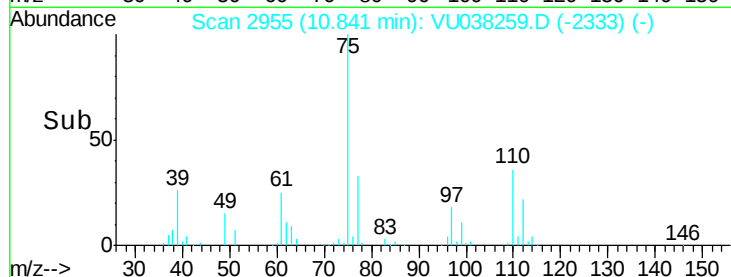
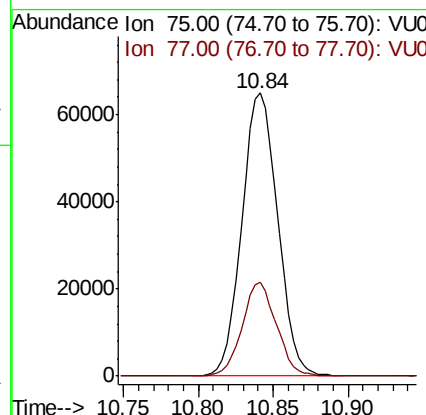
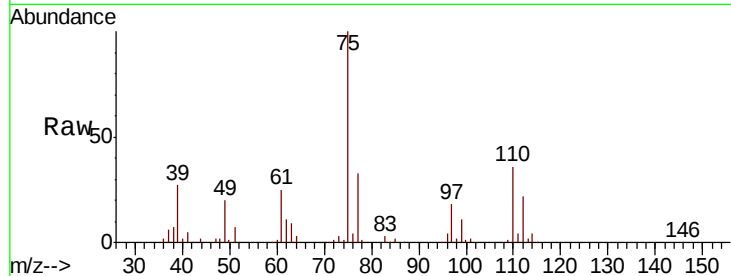




#59
 1,2,3-Trichloropropane
 Concen: 5.166 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

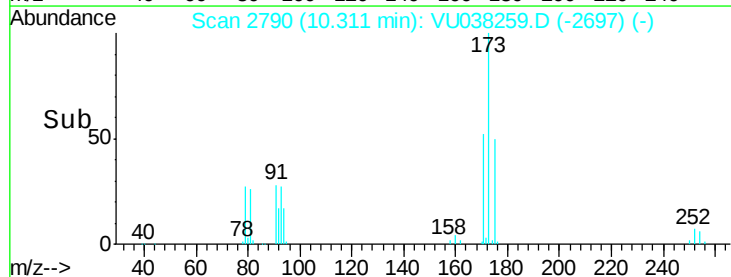
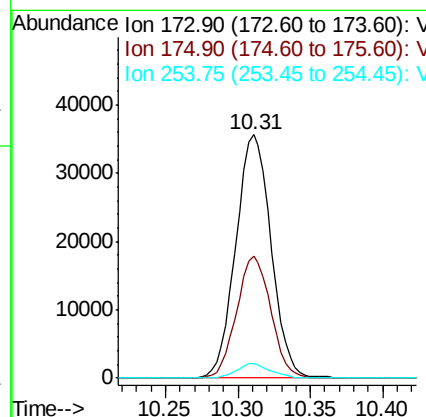
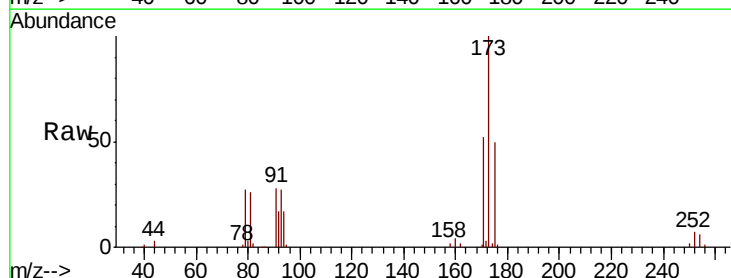
Instrument :
 MSVOA_U
 ClientSampleId :

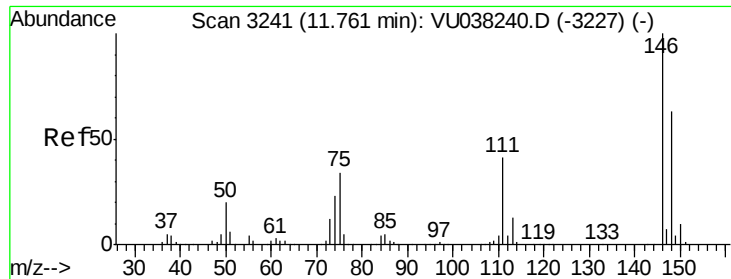
Tot Ion: 75 Resp: 108309
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.4 38.0



#61
 Bromoform
 Concen: 5.052 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion: 173 Resp: 60268
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.5 59.3
 254 5.6 5.0 7.4

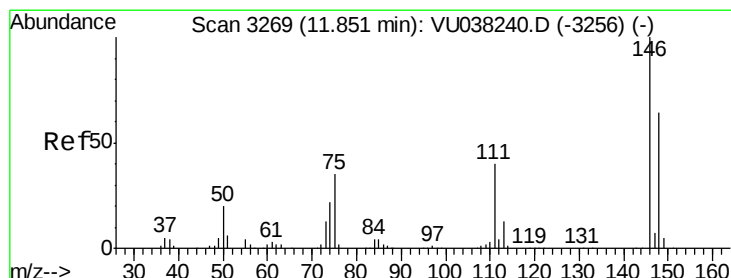
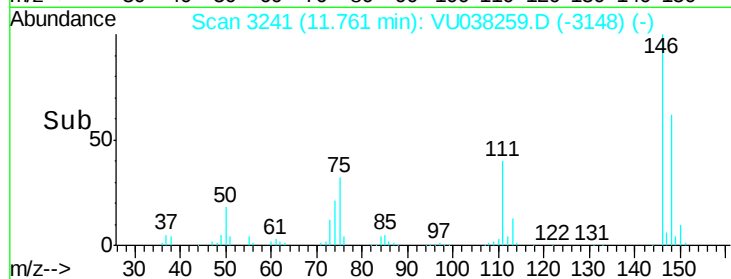
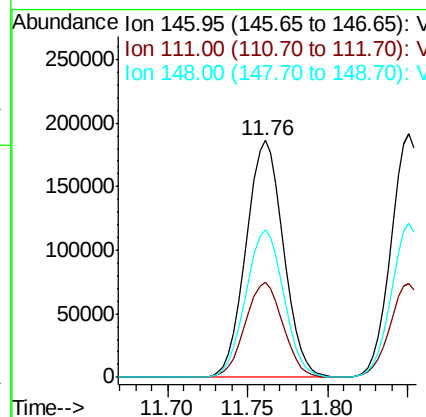
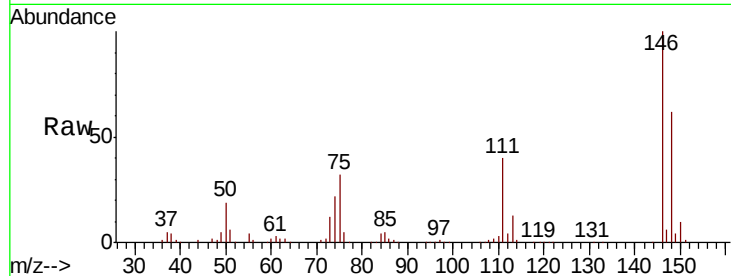




#62
 1,3-Dichlorobenzene
 Concen: 5.168 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

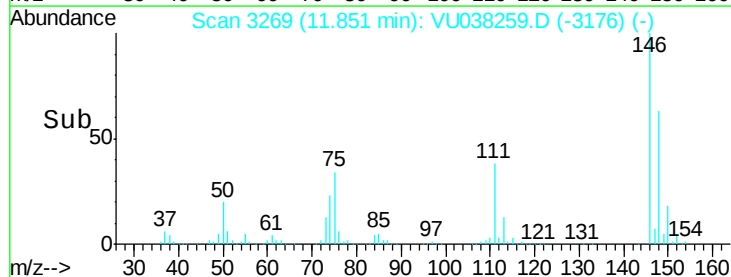
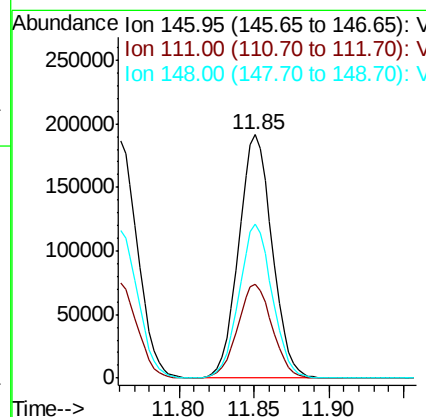
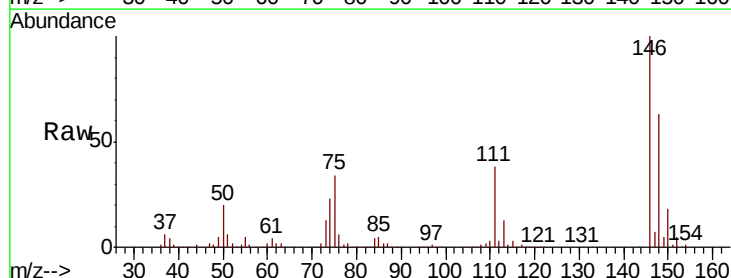
Instrument :
 MSVOA_U
 ClientSampled :

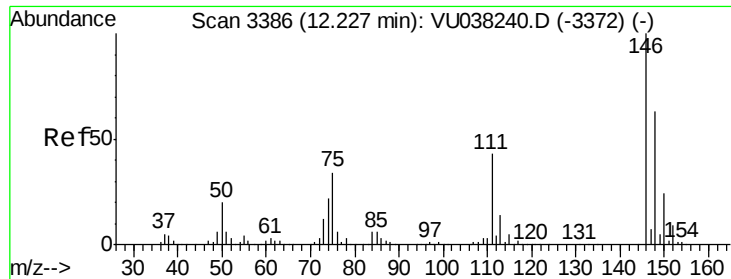
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	28.6	53.2
148	62.1	45.2	84.0



#63
 1,4-Dichlorobenzene
 Concen: 5.133 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	27.2	50.6
148	63.2	43.8	81.3





#65

1,2-Dichlorobenzene

Concen: 4.996 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

ClientSampleId :

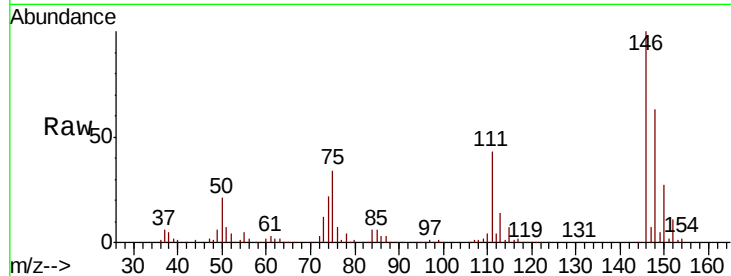
Tot Ion:146 Resp: 276039

Ion Ratio Lower Upper

146 100

111 43.3 35.3 52.9

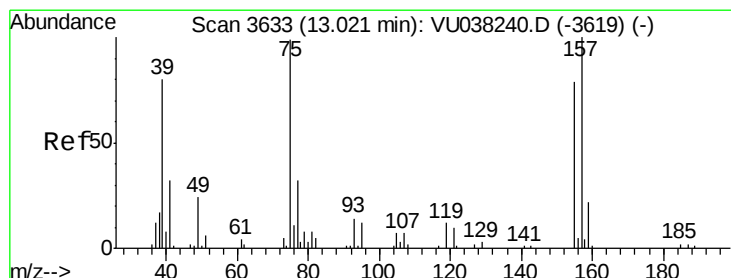
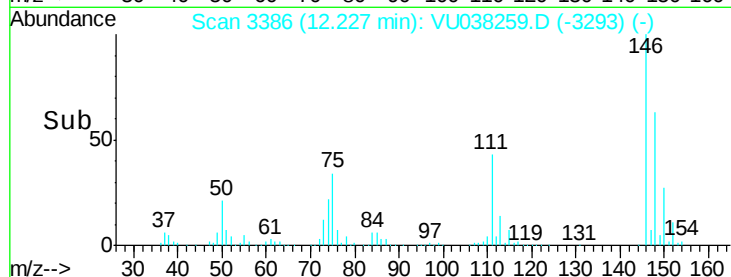
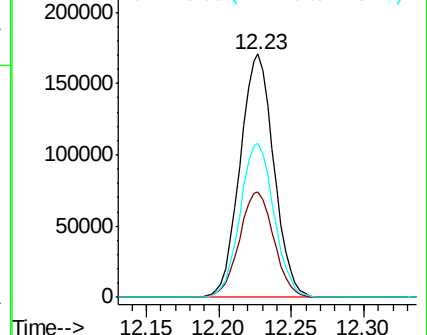
148 63.1 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.973 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

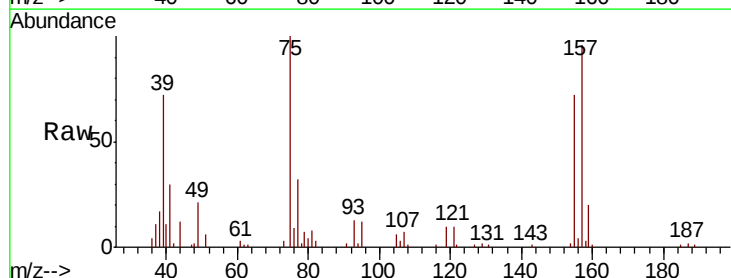
Tgt Ion: 75 Resp: 22453

Ion Ratio Lower Upper

75 100

155 72.0 58.2 87.2

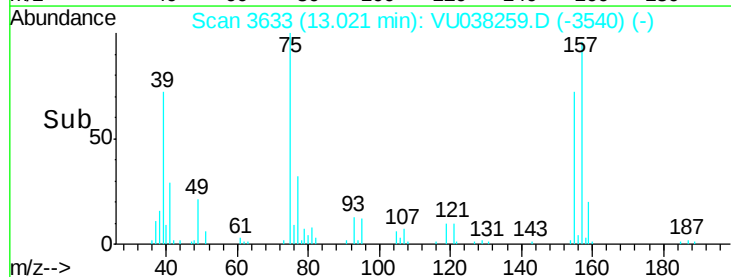
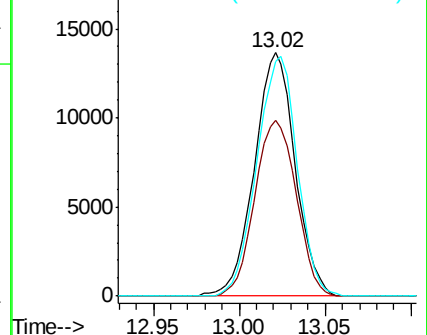
157 96.2 72.9 109.3

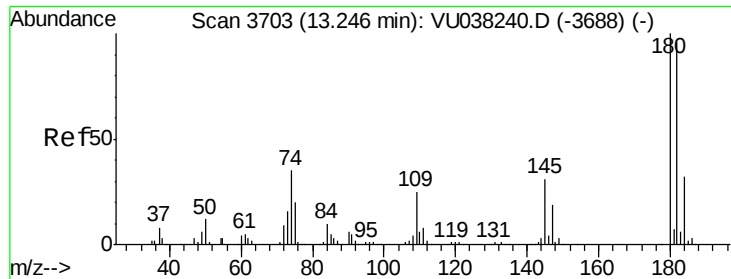


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

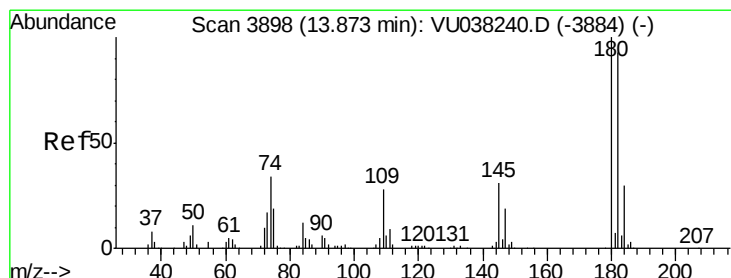
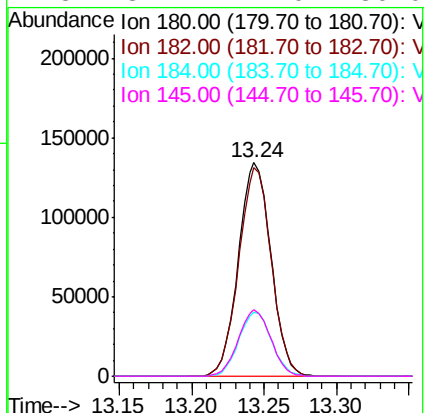
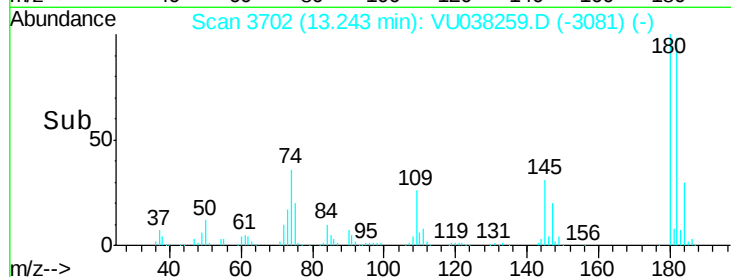
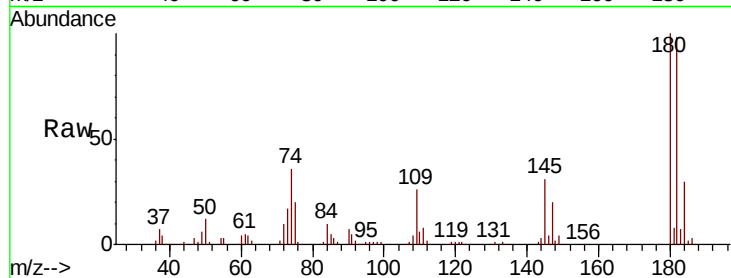




#67
 1,3,5-Trichlorobenzene
 Concen: 5.035 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

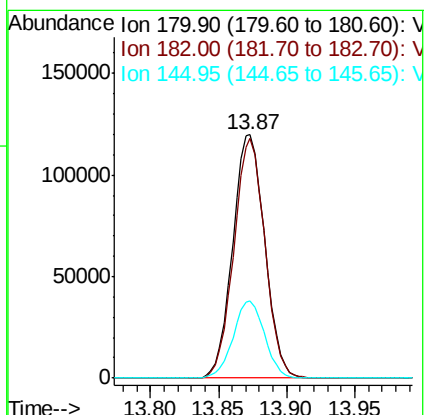
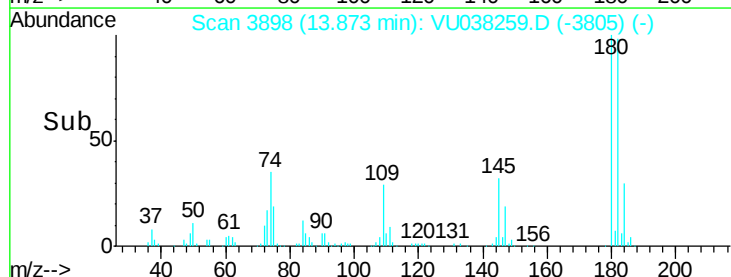
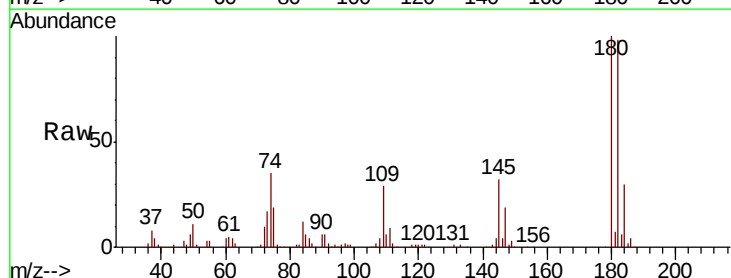
Instrument :
 MSVOA_U
 ClientSampleId :

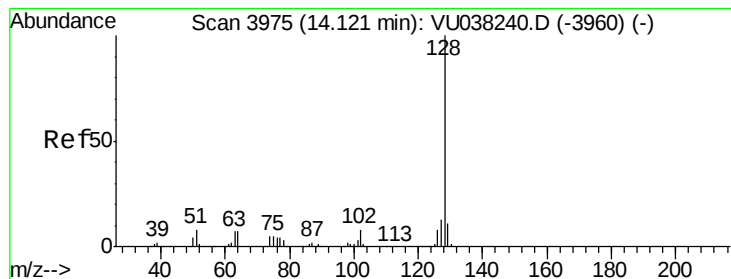
Tot Ion:	180	Resp:	209812
Ion	Ratio	Lower	Upper
180	100		
182	97.3	77.4	116.2
184	30.3	24.2	36.2
145	31.2	24.0	36.0



#68
 1,2,4-trichlorobenzene
 Concen: 5.167 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. -0.00 min
 Lab File: VU038259.D
 Acq: 21 May 2020 12:36

Tgt Ion:	180	Resp:	195293
Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.0	112.6
145	30.9	24.8	37.2





#69

Naphthalene

Concen: 5.208 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

Instrument :

MSVOA_U

ClientSampleId :

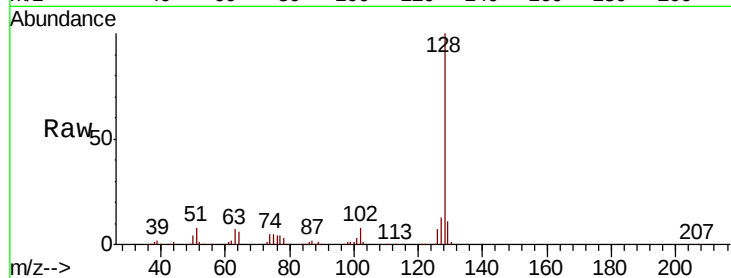
Tot Ion:128 Resp: 414391

Ion Ratio Lower Upper

128 100

129 10.4 8.7 13.1

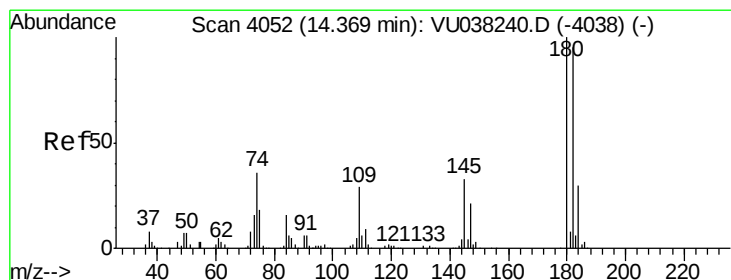
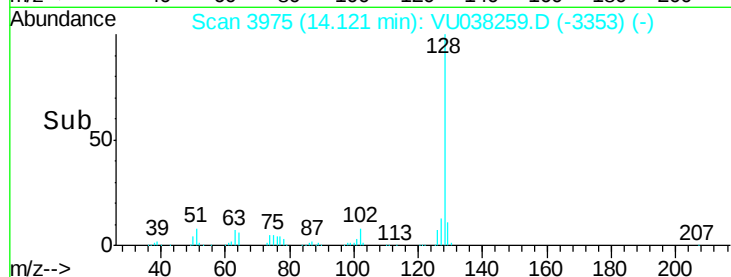
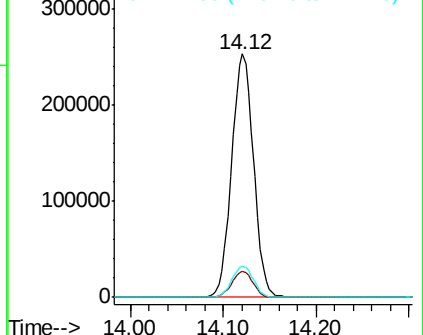
127 12.6 10.2 15.4



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: 5.145 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VU038259.D

Acq: 21 May 2020 12:36

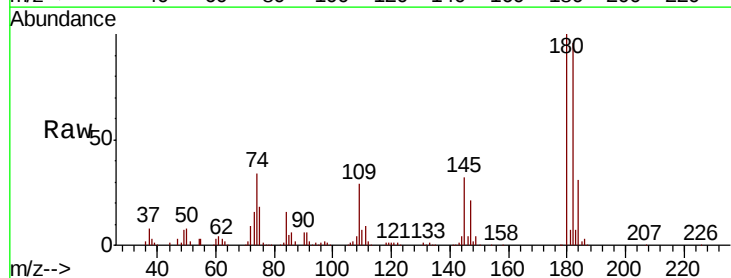
Tgt Ion:180 Resp: 180748

Ion Ratio Lower Upper

180 100

182 95.2 76.3 114.5

145 32.6 26.1 39.1



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

