

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052720\
 Data File : VU038330.D
 Acq On : 27 May 2020 18:52
 Operator : JC/MD
 Sample : L2749-15 50X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 28 04:20:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 04:16:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	309672	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	300211	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	148893	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	88223	3.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.40%
7) Chloroethane-d5	1.93	69	83401	3.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	68.00%
11) 1,1-Dichloroethene-d2	2.59	63	137897	2.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.20%#
20) 2-Butanone-d5	4.66	46	344007	49.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.44%
24) Chloroform-d	5.10	84	199044	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.74	65	117526	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.76	84	412349	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.72	67	131809	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.80%
41) Toluene-d8	7.92	98	370413	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloropropene-	8.20	79	50924	4.38	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.60%
46) 2-Hexanone-d5	8.65	63	273741	49.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.68%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	107979	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	150257	5.18	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.95	64	5136	0.250	ug/L	89
13) Acetone	2.65	43	4405	1.005	ug/L	96
16) Methylene chloride	3.08	84	2295	0.092	ug/L	83
22) cis-1,2-Dichloroethene	4.70	96	2715	0.107	ug/L	80
27) 1,2-Dichloroethane	5.81	62	16784	0.556	ug/L #	73
30) Cyclohexane	5.42	56	6110	0.150	ug/L	96
33) Benzene	5.81	78	1937521	20.154	ug/L	100
35) Methylcyclohexane	6.79	83	5652	0.145	ug/L	86
37) 1,2-Dichloropropane	6.72	63	14734	0.564	ug/L #	90
39) cis-1,3-Dichloropropene	7.59	75	3544	0.095	ug/L #	74
42) Toluene	7.99	91	2897697	28.553	ug/L	97
48) 2-Hexanone	8.70	43	20223	1.526	ug/L #	89
51) Chlorobenzene	9.47	112	494074	7.845	ug/L	98
52) Ethylbenzene	9.59	91	258170	2.348	ug/L	99
53) m,p-Xylene	9.71	106	279614	6.633	ug/L	99
54) o-Xylene	10.12	106	112841	2.769	ug/L	92
55) Styrene	10.12	104	6468	0.095	ug/L #	1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 28 04:16:01 2020
Response via : Initial Calibration

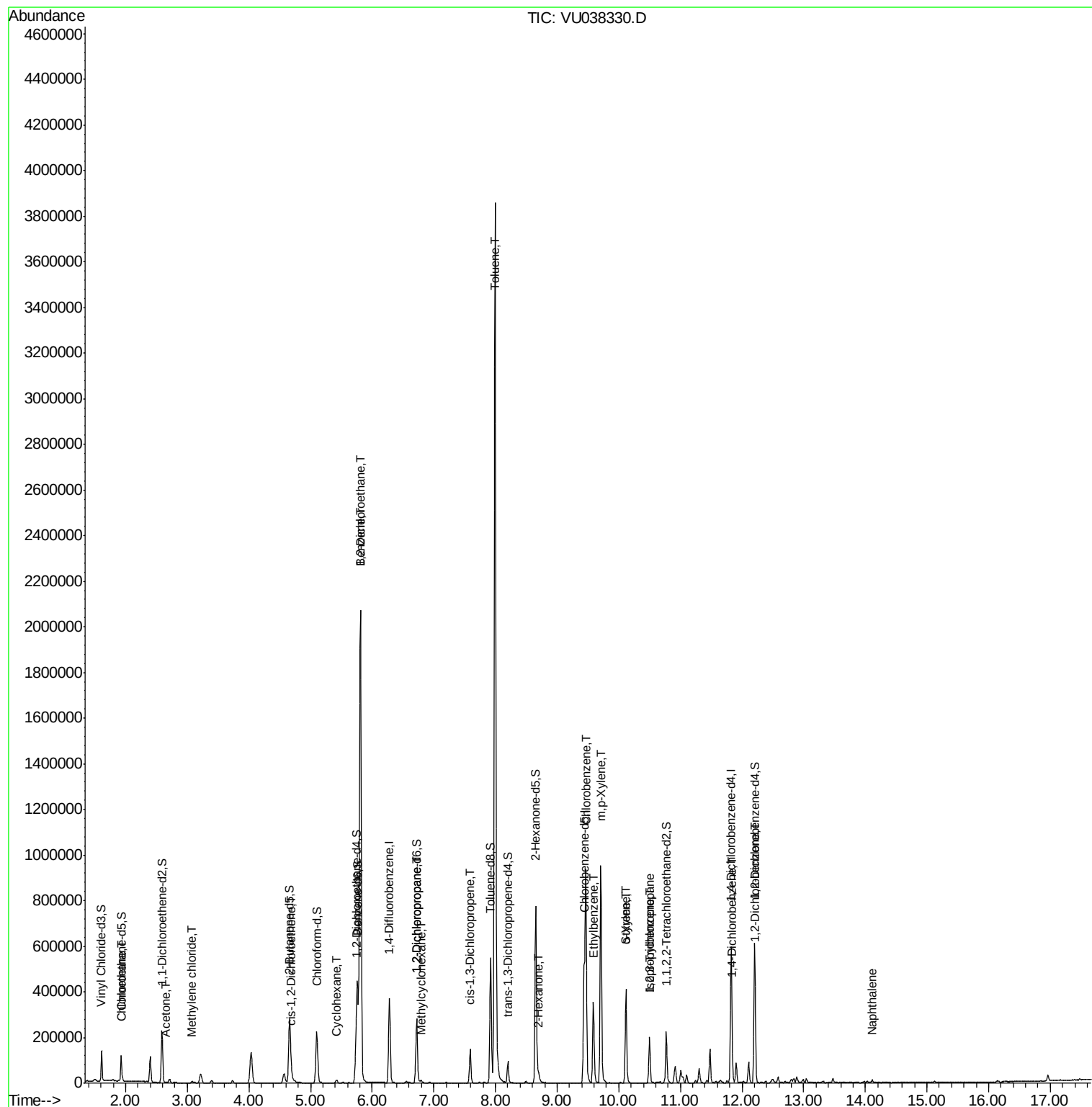
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.50	105	128938	1.232	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	1634	0.093	ug/L #	1
63) 1,4-Dichlorobenzene	11.85	146	14206	0.289	ug/L	93
65) 1,2-Dichlorobenzene	12.22	146	8154	0.175	ug/L	93
69) Naphthalene	14.11	128	10119	0.151	ug/L	99

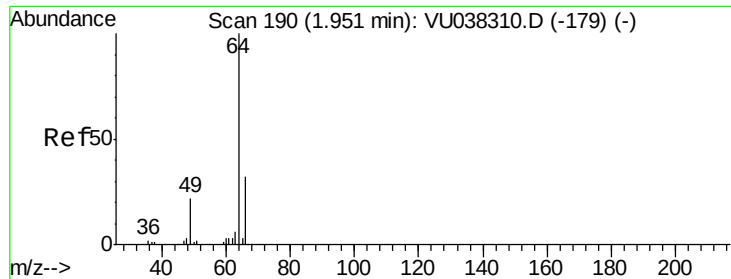
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#8

Chloroethane

Concen: 0.250 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

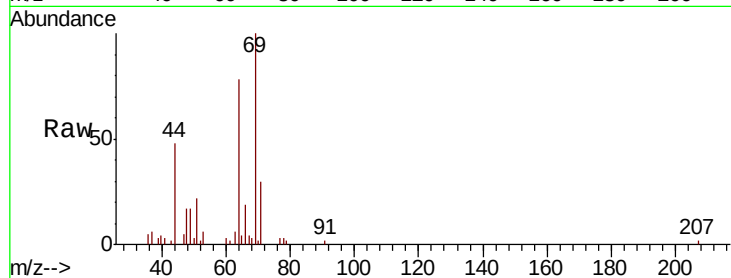
ClientSampleId :

Tot Ion: 64 Resp: 5136

Ion Ratio Lower Upper

64 100

66 24.8 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VU038330.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU038330.D (-179) (-)

1.95

6000

5000

4000

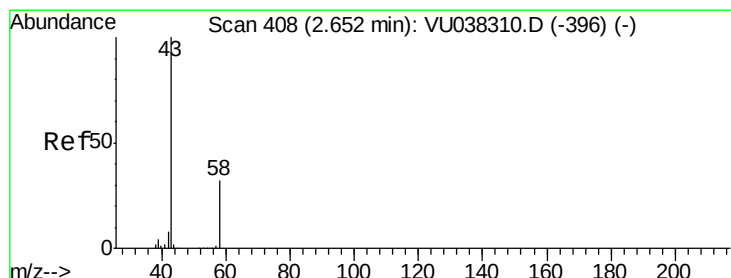
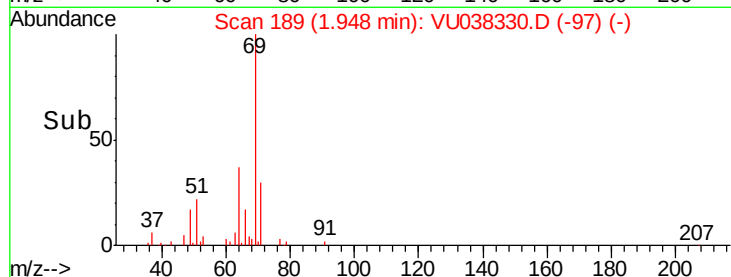
3000

2000

1000

0

Time--> 1.90 1.95 2.00



#13

Acetone

Concen: 1.005 ug/L

RT: 2.65 min Scan# 407

Delta R.T. -0.00 min

Lab File: VU038330.D

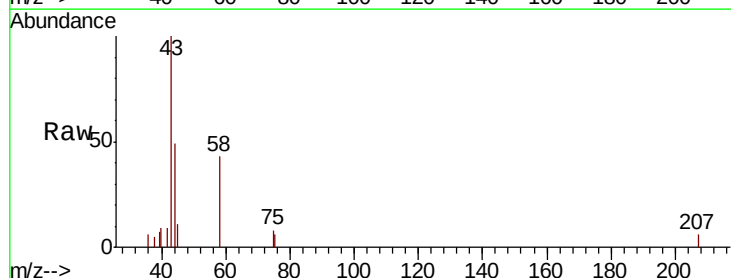
Acq: 27 May 2020 18:52

Tgt Ion: 43 Resp: 4405

Ion Ratio Lower Upper

43 100

58 33.9 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038330.D (-315) (-)

Ion 58.05 (57.75 to 58.75): VU038330.D (-315) (-)

2.65

2500

2000

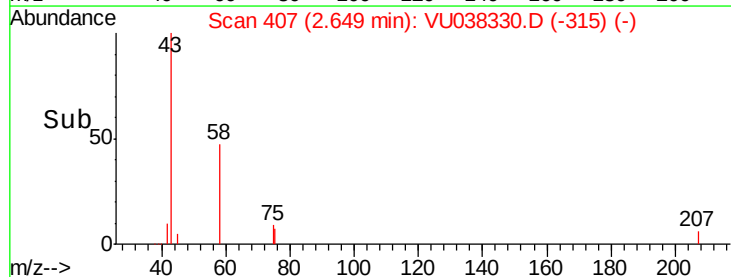
1500

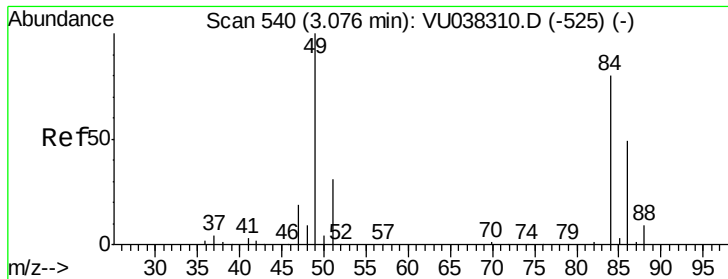
1000

500

0

Time--> 2.60 2.65 2.70





#16

Methylene chloride

Concen: 0.092 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

ClientSampleId :

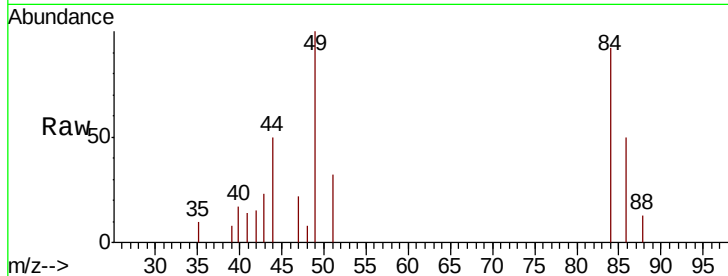
Tot Ion: 84 Resp: 2295

Ion Ratio Lower Upper

84 100

86 54.6 44.9 83.3

49 108.4 92.0 170.9

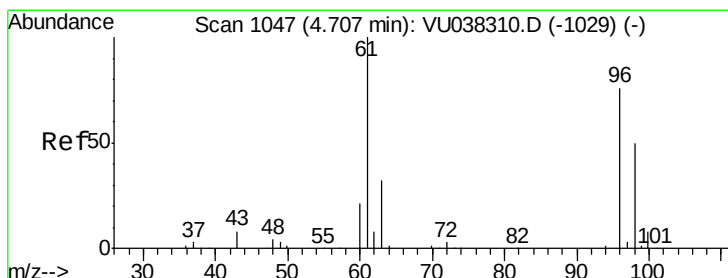
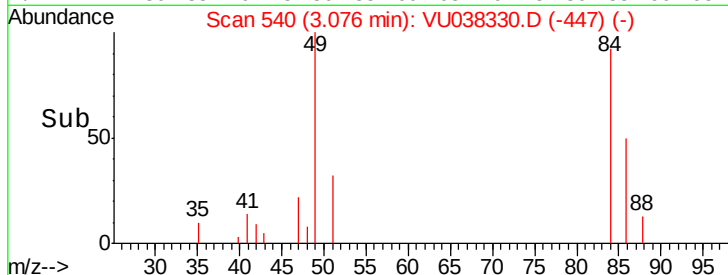
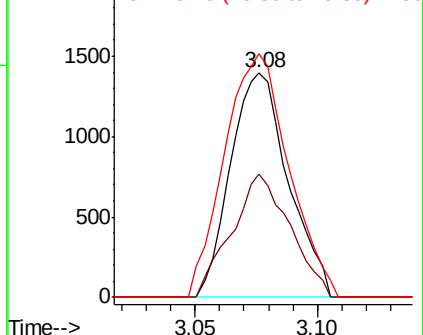


Abundance

Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



#22

cis-1,2-Dichloroethene

Concen: 0.107 ug/L

RT: 4.70 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

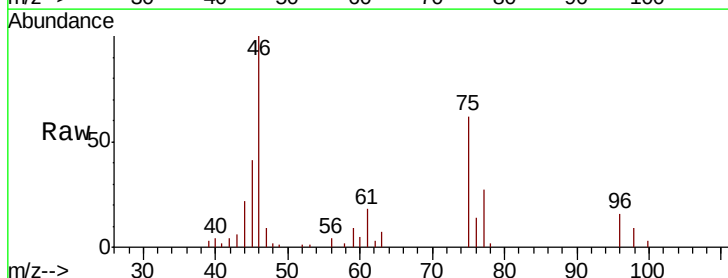
Tgt Ion: 96 Resp: 2715

Ion Ratio Lower Upper

96 100

61 111.7 95.3 176.9

68 0.0 0.0 0.0

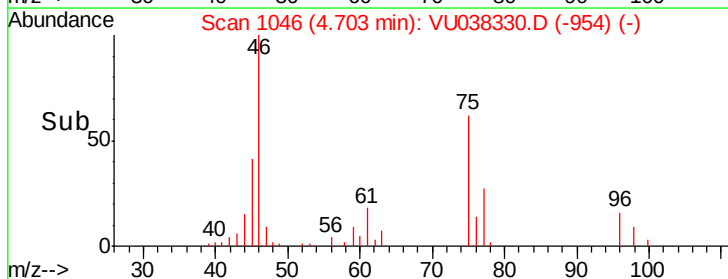
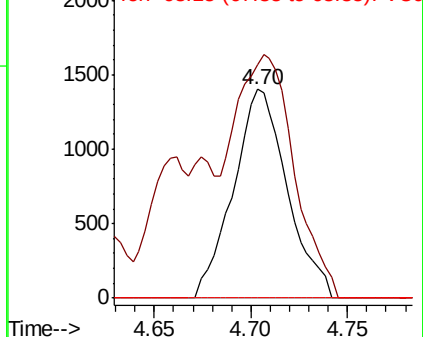


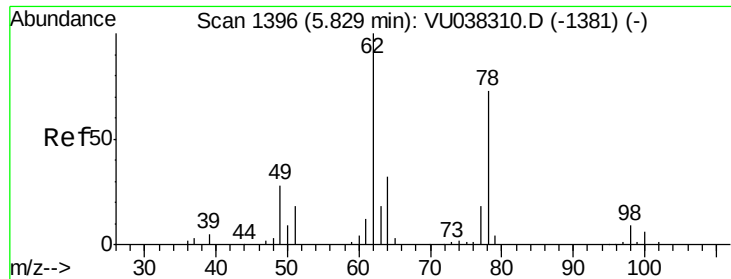
Abundance

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





#27

1,2-Dichloroethane

Concen: 0.556 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.02 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

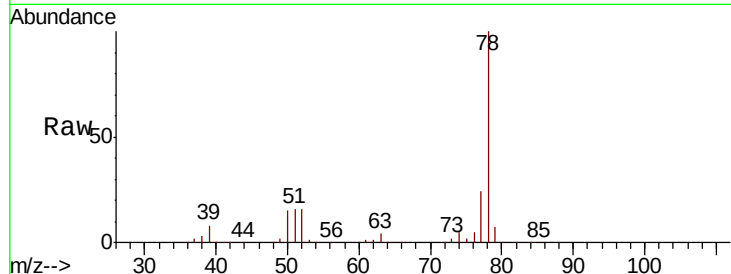
ClientSampled :

Tot Ion: 62 Resp: 16784

Ion Ratio Lower Upper

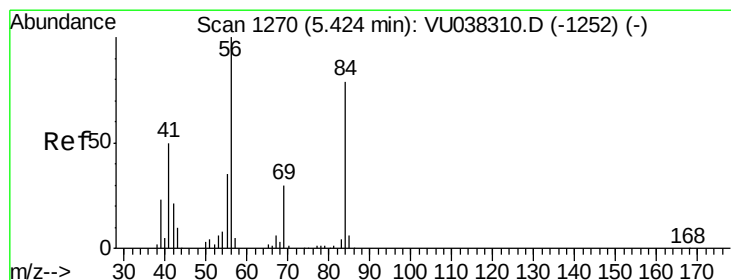
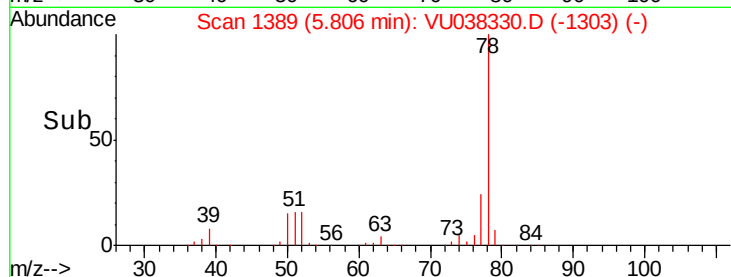
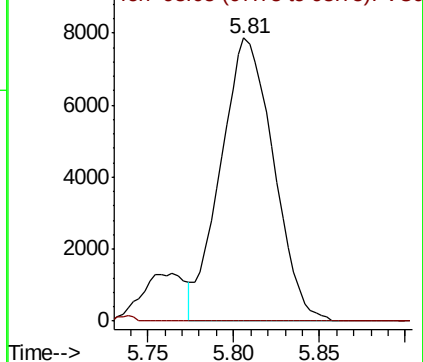
62 100

98 0.0 7.8 11.8#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0



#30

Cyclohexane

Concen: 0.150 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

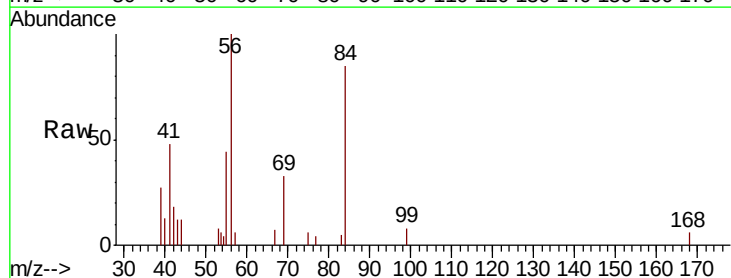
Tgt Ion: 56 Resp: 6110

Ion Ratio Lower Upper

56 100

69 32.2 24.2 36.4

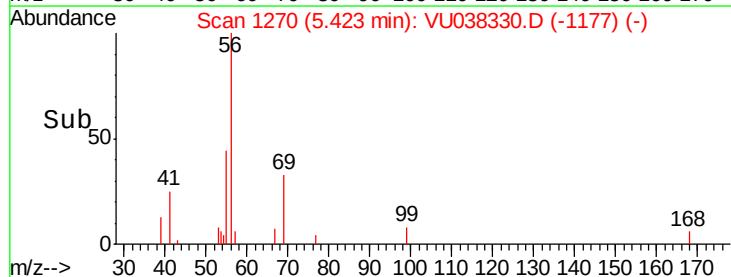
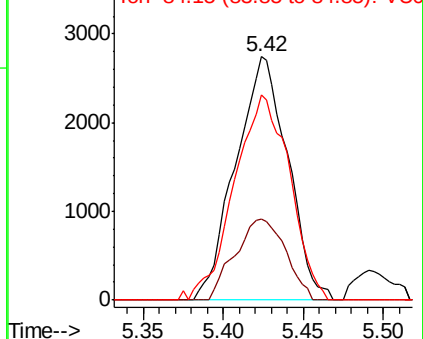
84 89.6 68.5 102.7

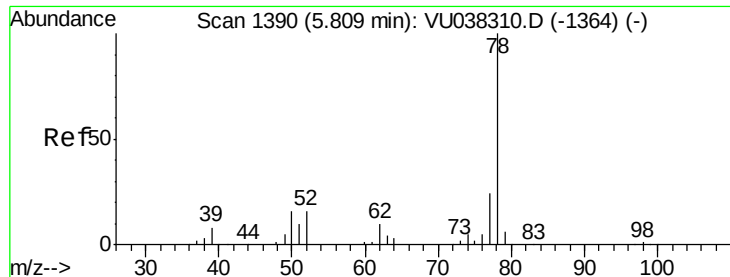


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#33

Benzene

Concen: 20.154 ug/L

RT: 5.81 min Scan# 1390

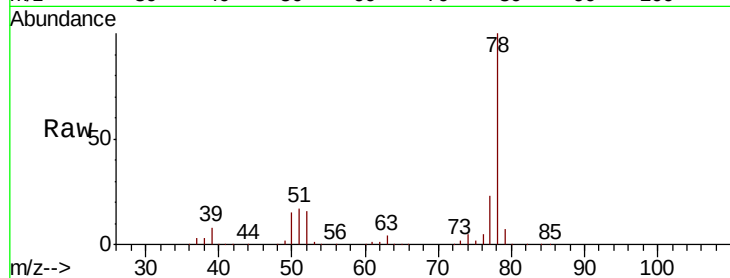
Delta R.T. -0.00 min

Lab File: VU038330.D

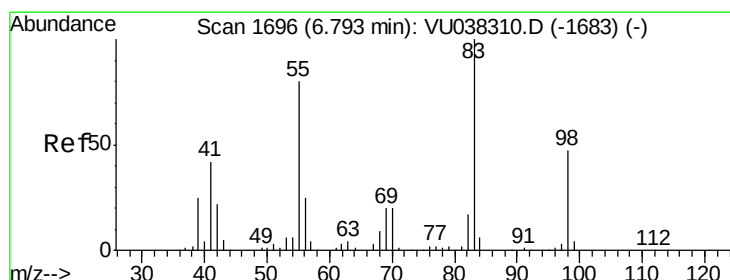
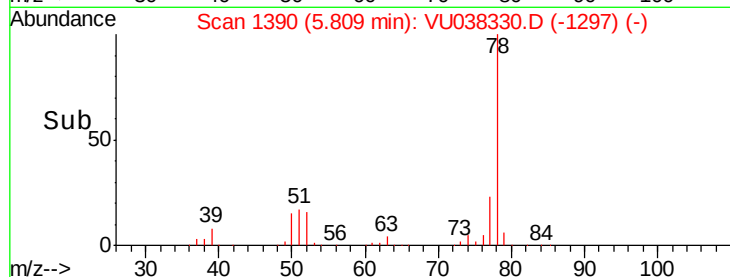
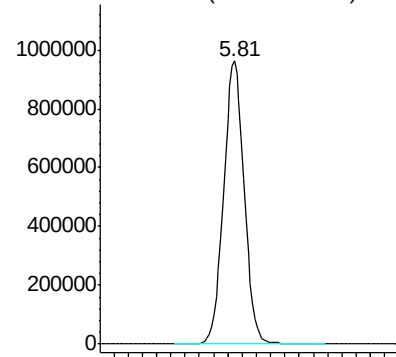
Acq: 27 May 2020 18:52

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 1937521



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.145 ug/L

RT: 6.79 min Scan# 1695

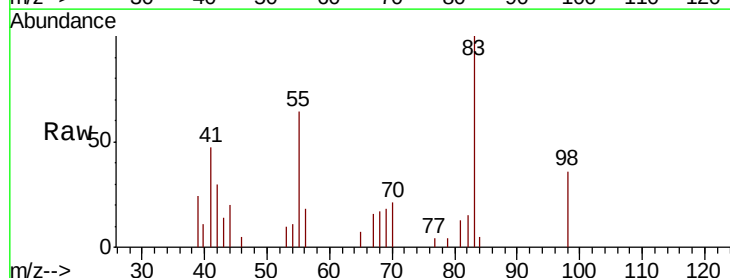
Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Tgt Ion: 83 Resp: 5652

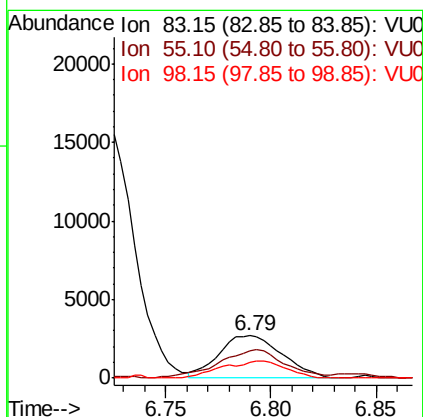
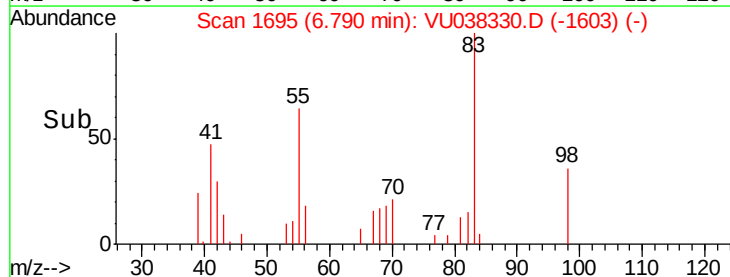
Ion	Ratio	Lower	Upper
83	100		
55	70.3	66.7	100.1
98	39.8	39.4	59.2

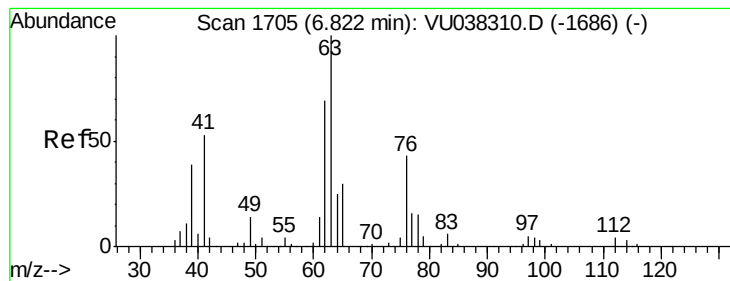


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.564 ug/L

RT: 6.72 min Scan# 1673

Delta R.T. -0.10 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

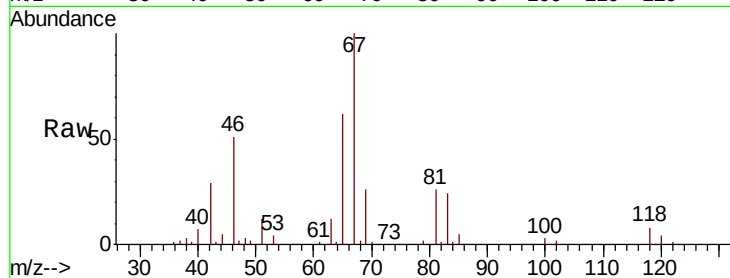
ClientSampled :

Tot Ion: 63 Resp: 14734

Ion Ratio Lower Upper

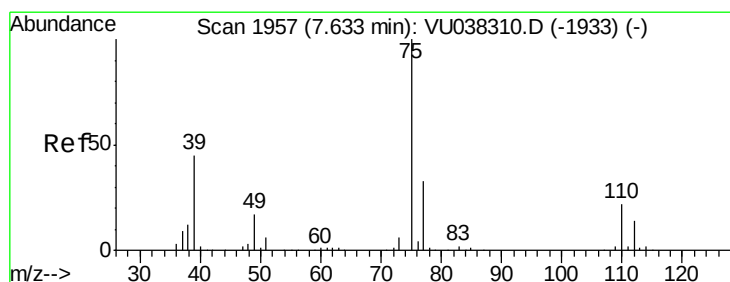
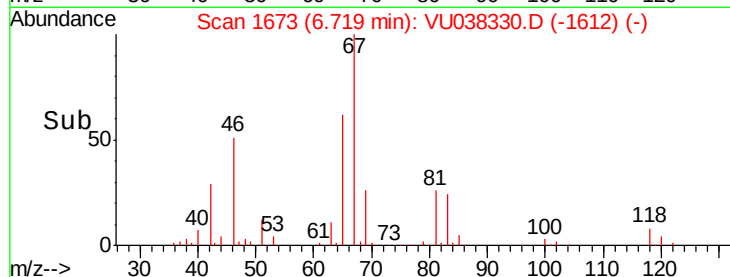
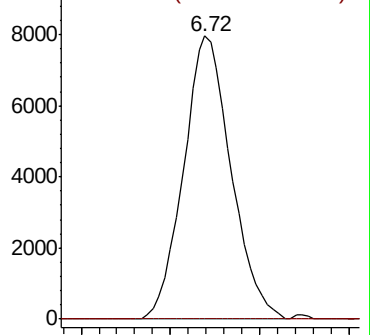
63 100

112 0.7 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU038330.D (-1673) (-)

Ion 112.10 (111.80 to 112.80): VU038330.D (-1673) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 7.59 min Scan# 1945

Delta R.T. -0.04 min

Lab File: VU038330.D

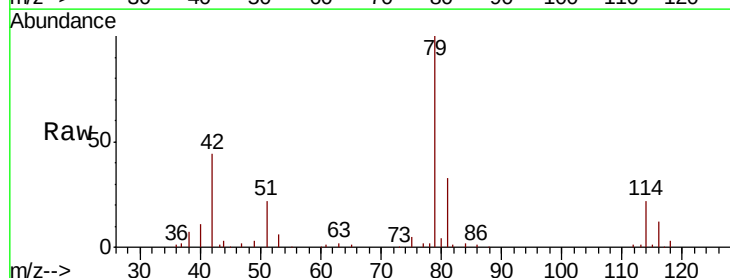
Acq: 27 May 2020 18:52

Tgt Ion: 75 Resp: 3544

Ion Ratio Lower Upper

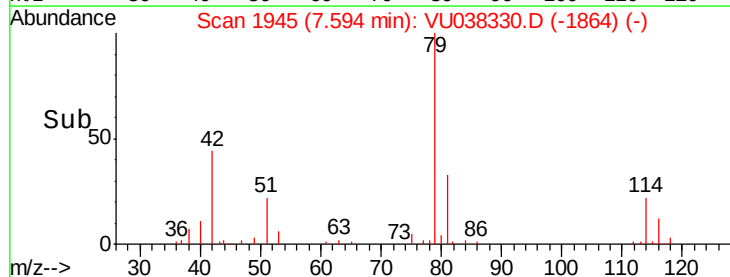
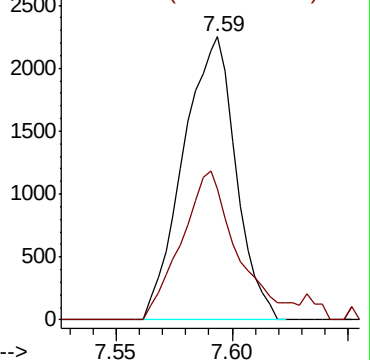
75 100

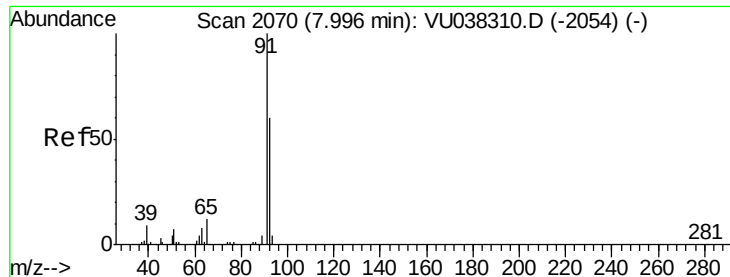
77 46.4 22.4 41.6#



Abundance Ion 75.05 (74.75 to 75.75): VU038330.D (-1945) (-)

Ion 77.05 (76.75 to 77.75): VU038330.D (-1945) (-)





#42

Toluene

Concen: 28.553 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

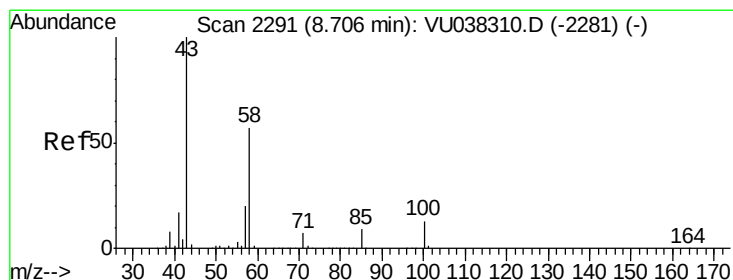
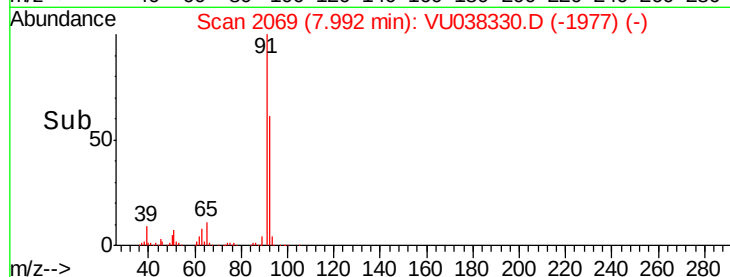
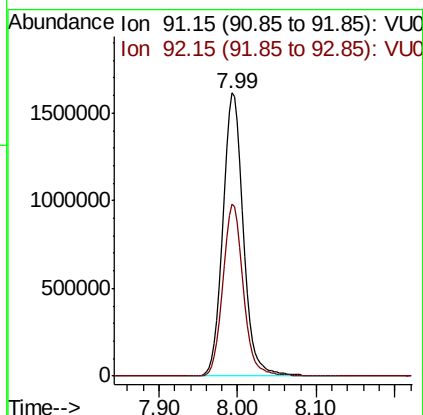
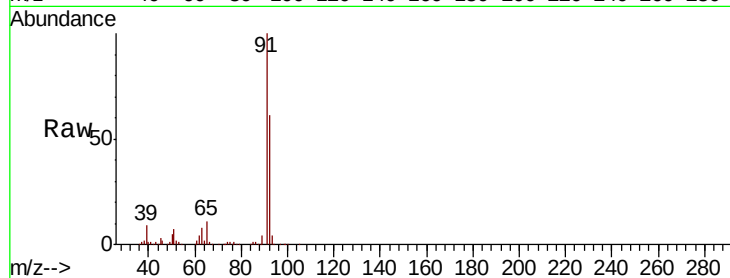
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 2897697

Ion Ratio Lower Upper

91 100

92 60.6 40.9 75.9



#48

2-Hexanone

Concen: 1.526 ug/L

RT: 8.70 min Scan# 2290

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Tgt Ion: 43 Resp: 20223

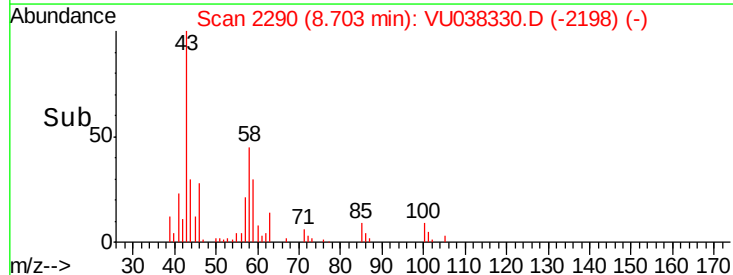
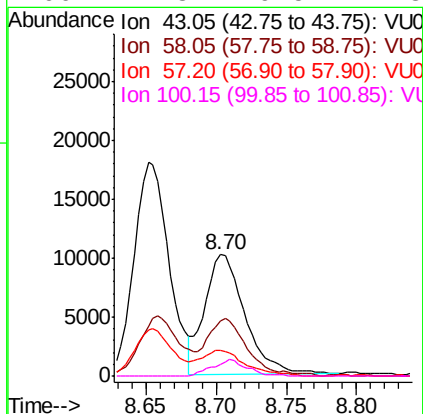
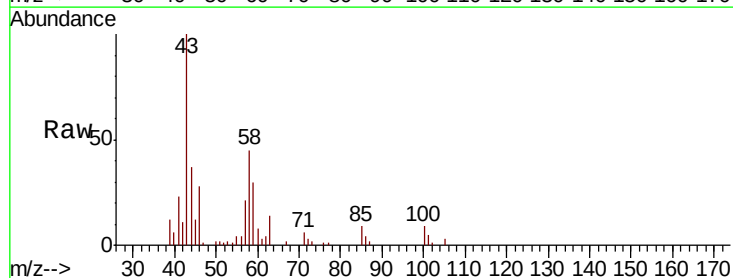
Ion Ratio Lower Upper

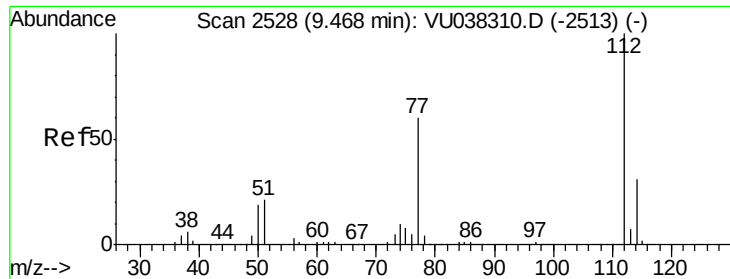
43 100

58 46.8 45.2 67.8

57 24.0 15.5 23.3#

100 11.8 9.5 14.3





#51

Chlorobenzene

Concen: 7.845 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

ClientSampleId :

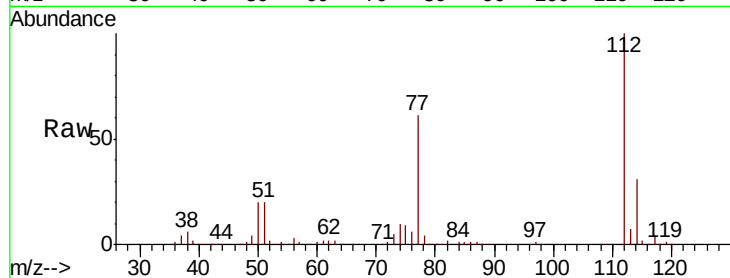
Tot Ion:112 Resp: 494074

Ion Ratio Lower Upper

112 100

114 31.5 22.5 41.7

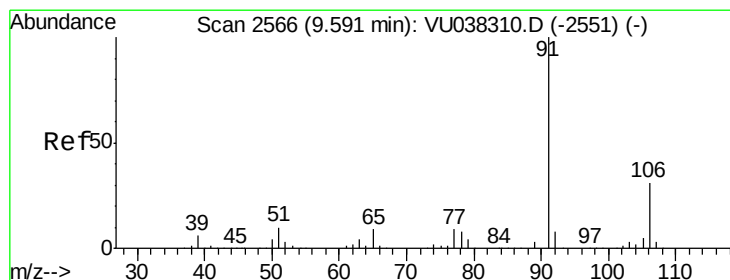
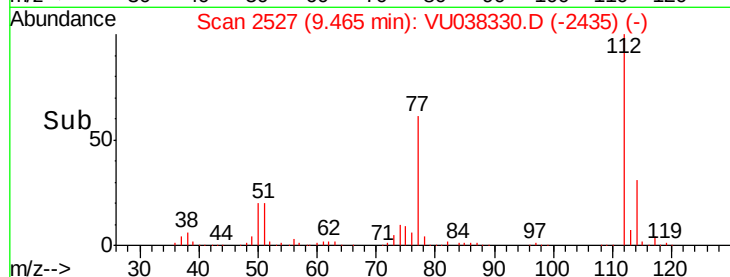
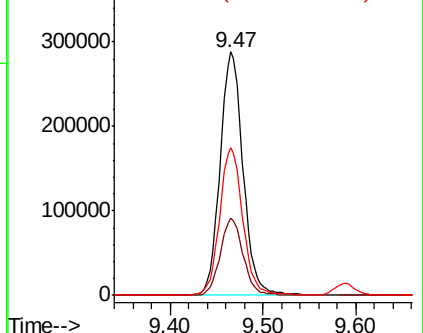
77 60.8 49.9 74.9



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): V



#52

Ethylbenzene

Concen: 2.348 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038330.D

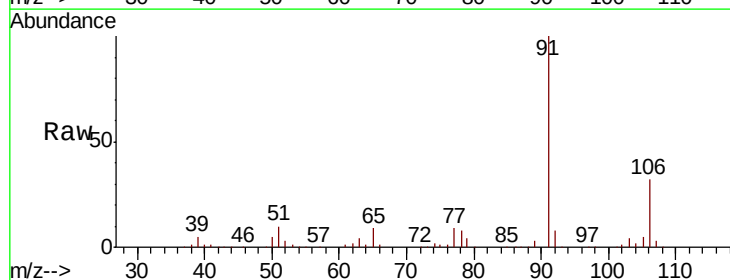
Acq: 27 May 2020 18:52

Tgt Ion: 91 Resp: 258170

Ion Ratio Lower Upper

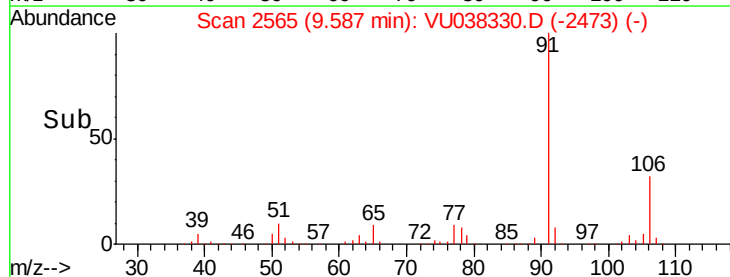
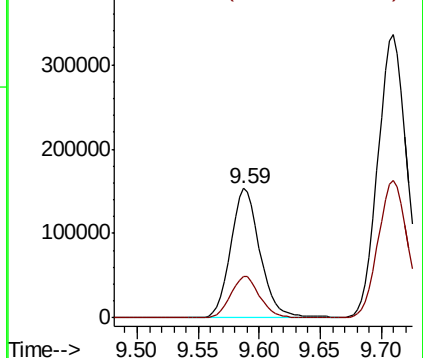
91 100

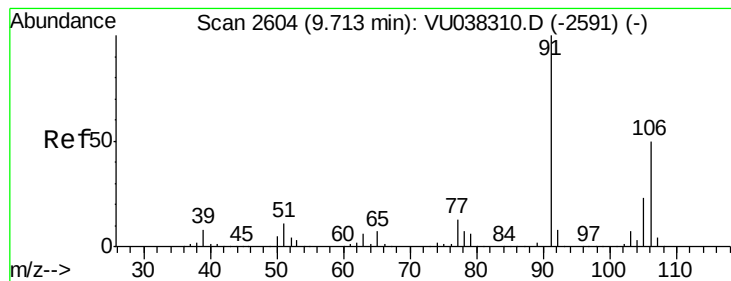
106 31.9 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 6.633 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

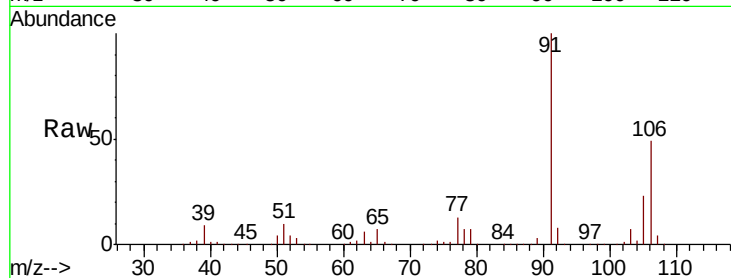
ClientSampled :

Tot Ion:106 Resp: 279614

Ion Ratio Lower Upper

106 100

91 205.2 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

400000

300000

200000

100000

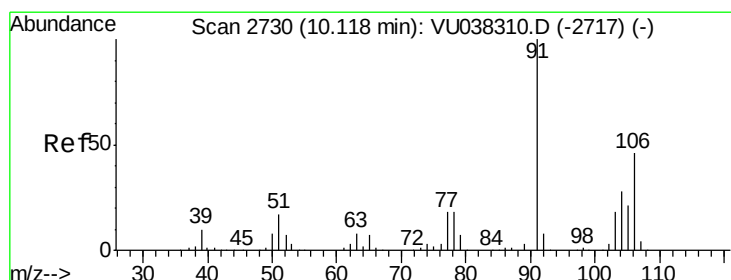
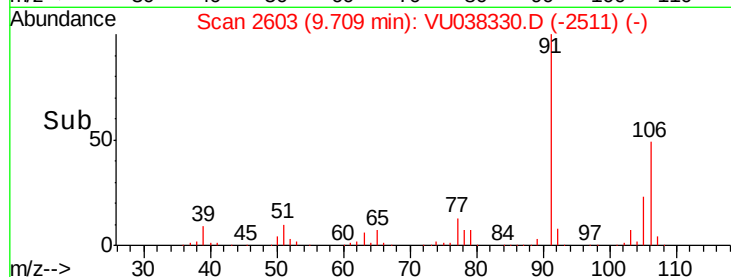
0

9.60

9.70

9.80

Time-->



#54

o-Xylene

Concen: 2.769 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU038330.D

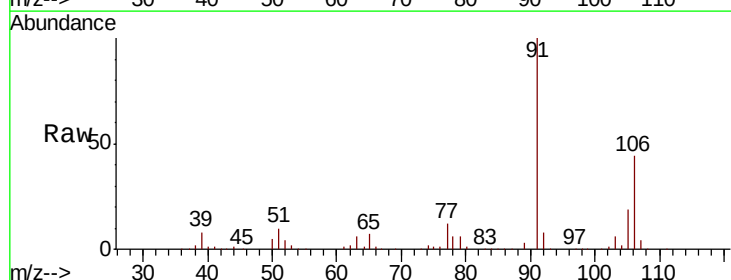
Acq: 27 May 2020 18:52

Tgt Ion:106 Resp: 112841

Ion Ratio Lower Upper

106 100

91 225.1 148.5 275.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

150000

100000

50000

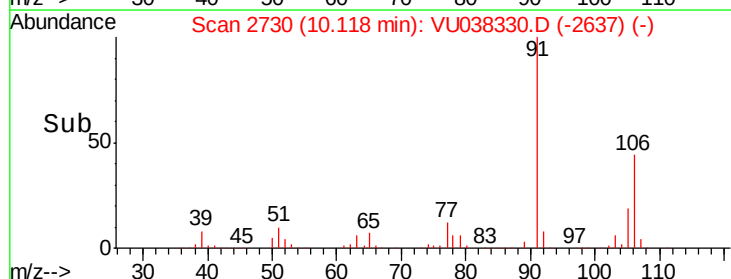
0

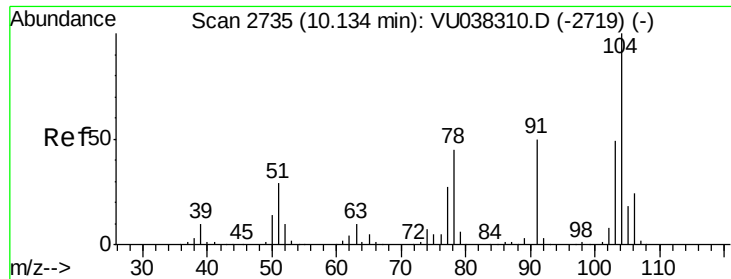
10.10

10.12

10.20

Time-->

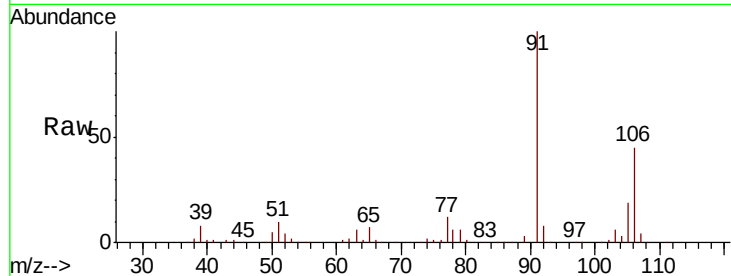




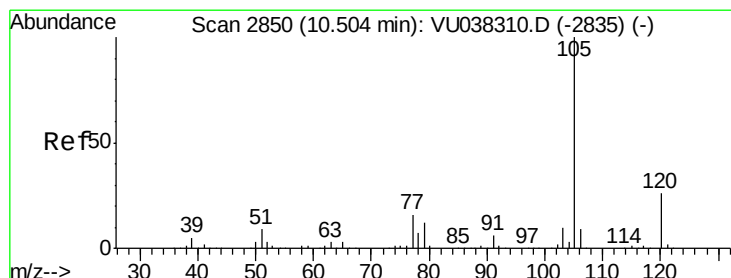
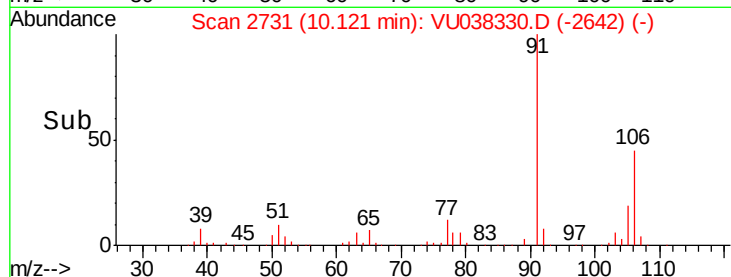
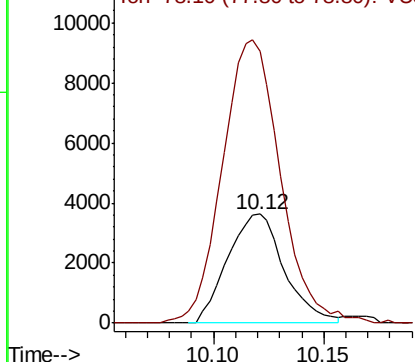
#55
Stvrene
Concen: 0.095 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.01 min
Lab File: VU038330.D
Acq: 27 May 2020 18:52

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:104 Resp: 6468
Ion Ratio Lower Upper
104 100
78 249.6 32.3 59.9#

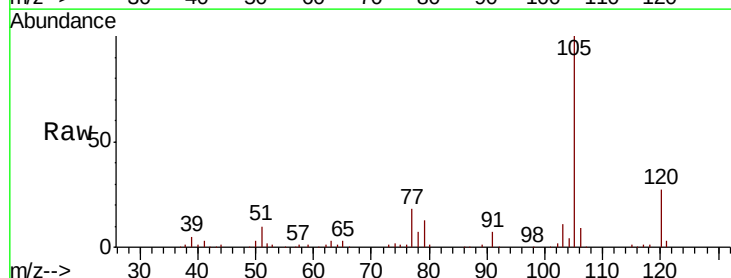


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

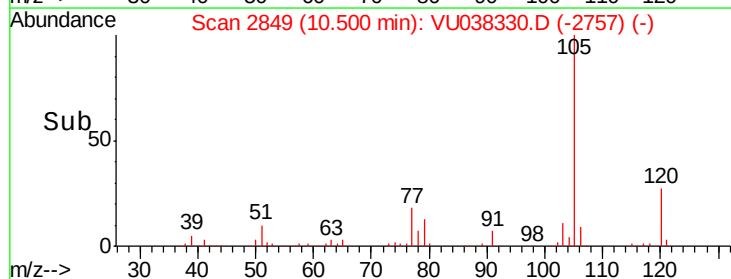
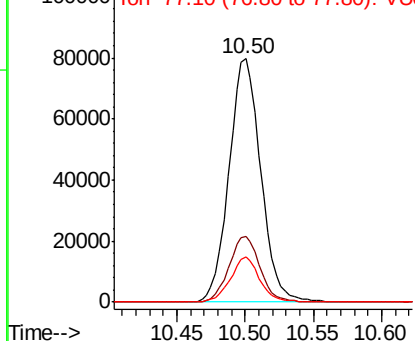


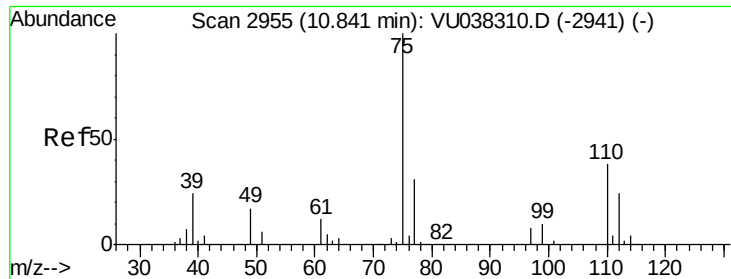
#56
Isopropylbenzene
Concen: 1.232 ug/L
RT: 10.50 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VU038330.D
Acq: 27 May 2020 18:52

Tgt Ion:105 Resp: 128938
Ion Ratio Lower Upper
105 100
120 26.3 21.0 31.6
77 17.0 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): VU0

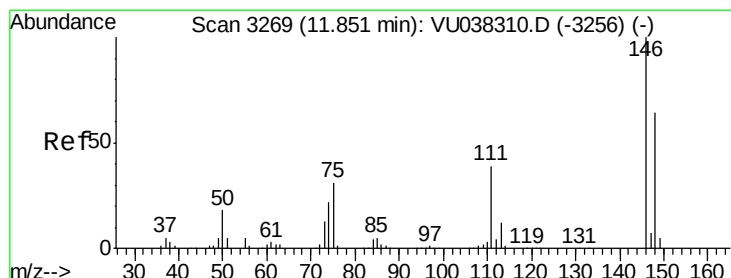
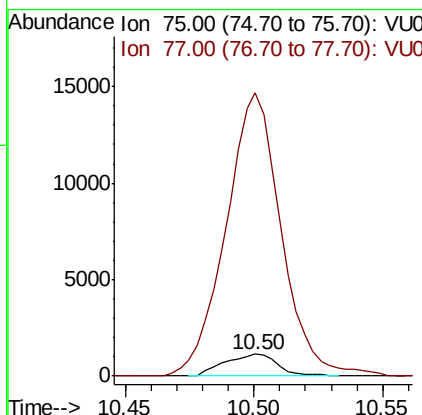
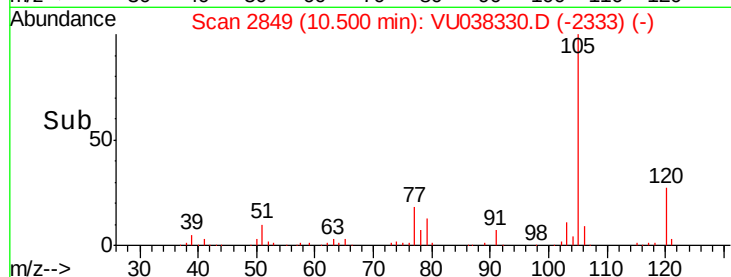
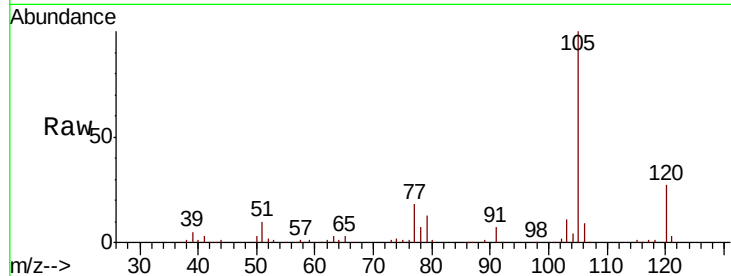




#59
 1,2,3-Trichloropropane
 Concen: 0.093 ug/L
 RT: 10.50 min Scan# 2849
 Delta R.T. -0.34 min
 Lab File: VU038330.D
 Acq: 27 May 2020 18:52

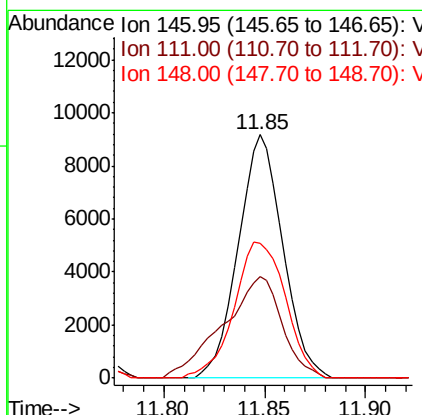
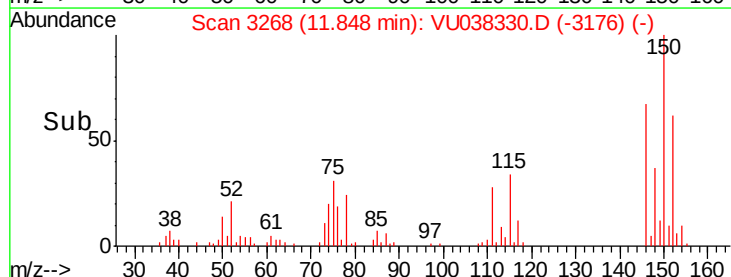
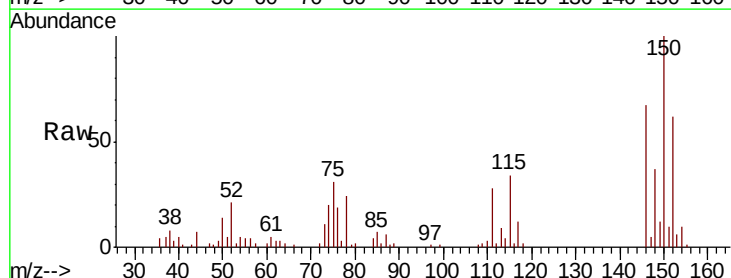
Instrument :
 MSVOA_U
 ClientSampleId :

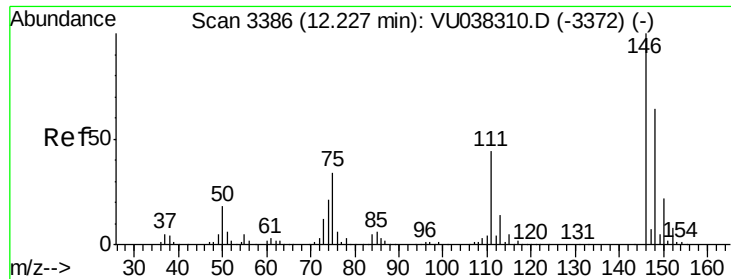
Tot Ion: 75 Resp: 1634
 Ion Ratio Lower Upper
 75 100
 77 1342.0 25.4 38.0#



#63
 1,4-Dichlorobenzene
 Concen: 0.289 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038330.D
 Acq: 27 May 2020 18:52

Tgt Ion: 146 Resp: 14206
 Ion Ratio Lower Upper
 146 100
 111 41.5 27.2 50.6
 148 55.5 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 0.175 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

Instrument :

MSVOA_U

ClientSampleId :

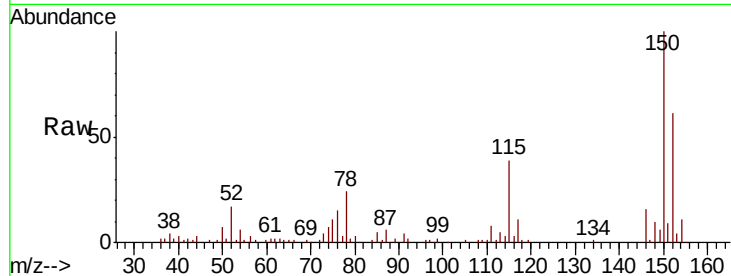
Tot Ion:146 Resp: 8154

Ion Ratio Lower Upper

146 100

111 50.6 35.3 52.9

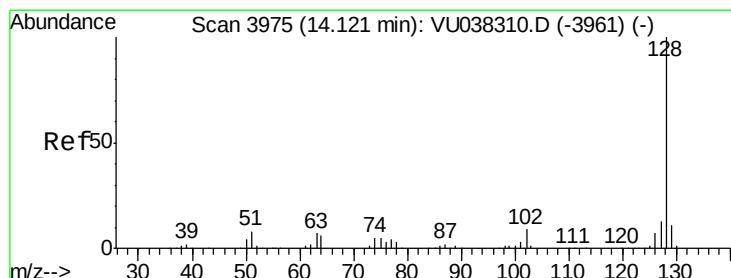
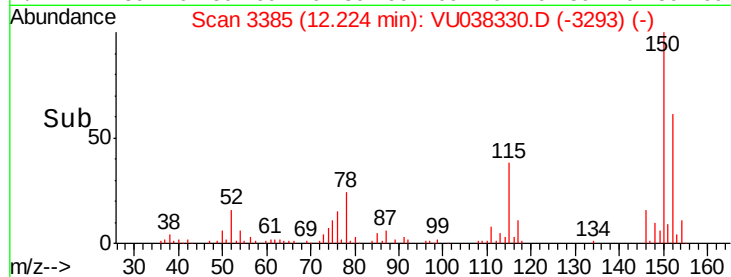
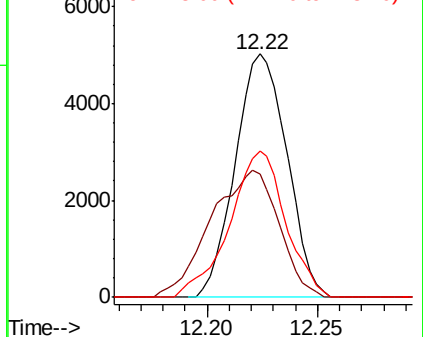
148 60.2 51.0 76.4



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



#69

Naphthalene

Concen: 0.151 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038330.D

Acq: 27 May 2020 18:52

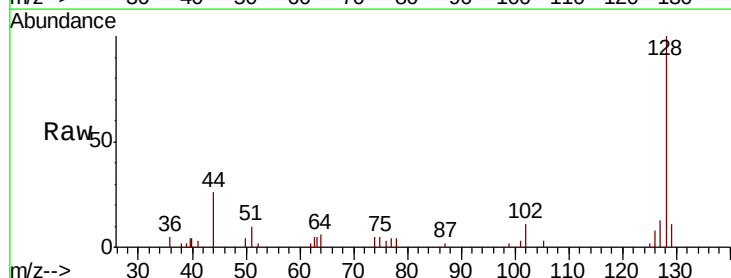
Tgt Ion:128 Resp: 10119

Ion Ratio Lower Upper

128 100

129 10.3 8.7 13.1

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

