

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092120\
 Data File : VU040235.D
 Acq On : 21 Sep 2020 15:49
 Operator : SY/MD
 Sample : L4046-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P0

Quant Time: Sep 22 07:15:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 22 07:07:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	175394	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	171254	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	86622	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	29723	3.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.00%
7) Chloroethane-d5	1.92	69	29520	3.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.00%
11) 1,1-Dichloroethene-d2	2.58	63	53479	2.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	43.60%#
20) 2-Butanone-d5	4.66	46	139817	36.50	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	73.00%
24) Chloroform-d	5.08	84	79225	3.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.80%
26) 1,2-Dichloroethane-d4	5.72	65	50566	3.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.20%
32) Benzene-d6	5.74	84	141917	3.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.00%
36) 1,2-Dichloropropane-d6	6.70	67	49268	3.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	74.80%
41) Toluene-d8	7.90	98	121093	3.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.00%#
43) trans-1,3-Dichloropropene-	8.18	79	20957	3.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.20%
46) 2-Hexanone-d5	8.64	63	130466	45.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48616	4.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	56216	4.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	80.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	625	0.037	ug/L #	1
8) Chloroethane	1.94	64	9194	0.906	ug/L	93
13) Acetone	2.39	43	145576	41.056	ug/L	52
15) Methyl Acetate	3.10	43	35363	3.974	ug/L #	55
17) Methyl tert-butyl Ether	3.38	73	13766	0.336	ug/L #	1
18) trans-1,2-Dichloroethene	3.36	96	1781	0.122	ug/L	72
19) 1,1-Dichloroethane	3.88	63	2281	0.076	ug/L #	85
30) Cyclohexane	5.40	56	39354	1.509	ug/L	99
33) Benzene	5.79	78	63766	1.041	ug/L	100
35) Methylcyclohexane	6.77	83	21492	0.854	ug/L #	84
38) Bromodichloromethane	7.17	83	2287	0.101	ug/L #	25
42) Toluene	7.97	91	10845	0.172	ug/L	92
44) trans-1,3-Dichloropropene	8.36	75	1110	0.049	ug/L	97
45) 1,1,2-Trichloroethane	8.38	97	1370	0.113	ug/L #	23
48) 2-Hexanone	8.68	43	4904	0.494	ug/L #	38
51) Chlorobenzene	9.45	112	1817777	46.405	ug/L	97
54) o-Xylene	10.10	106	6531	0.269	ug/L	86

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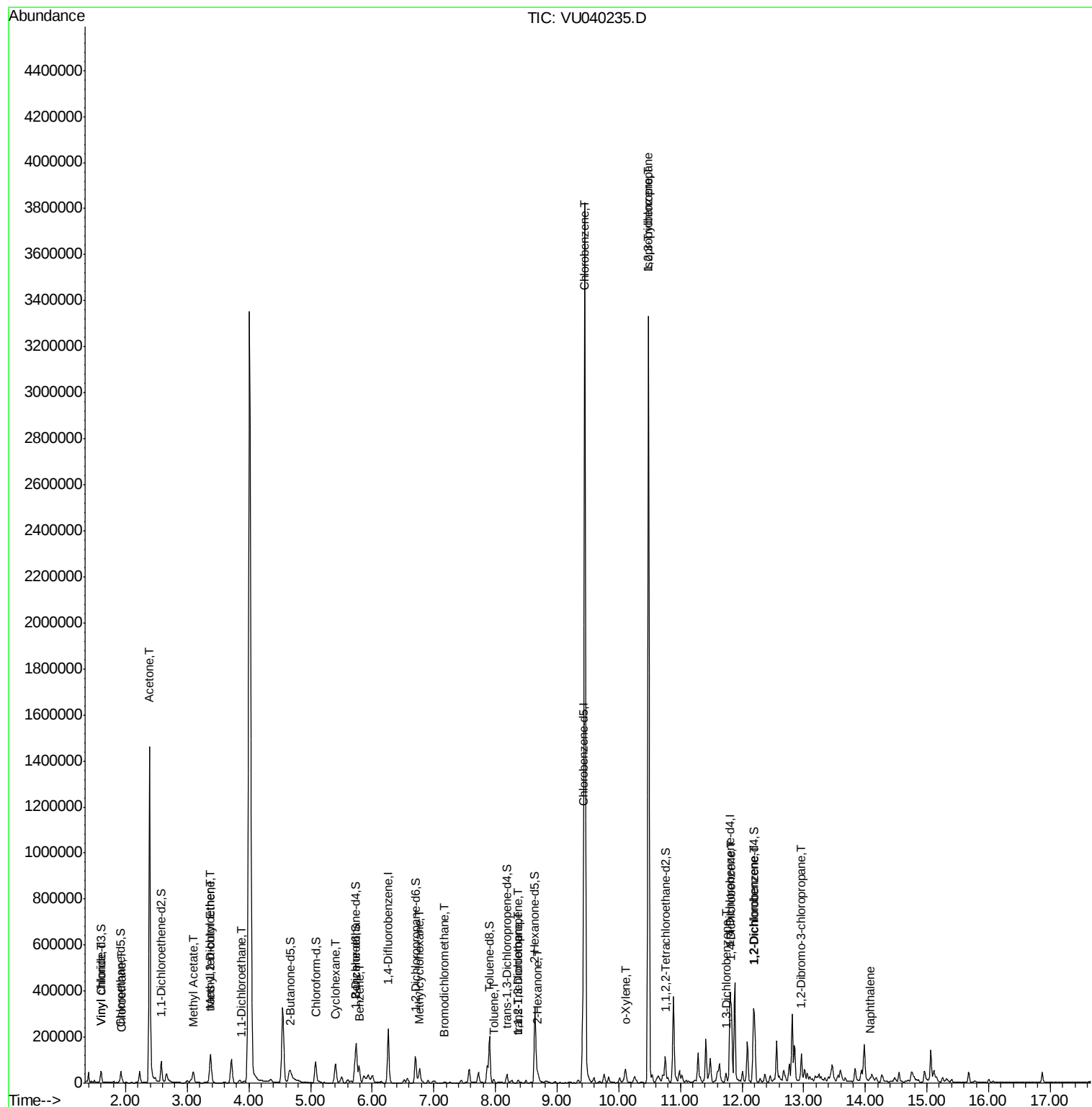
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.48	105	2009982	30.302	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	28314	2.304	ug/L #	1
62) 1,3-Dichlorobenzene	11.74	146	9925	0.313	ug/L	97
63) 1,4-Dichlorobenzene	11.83	146	100796	3.146	ug/L	98
65) 1,2-Dichlorobenzene	12.20	146	74168	2.421	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.96	75	372	0.114	ug/L #	8
69) Naphthalene	14.08	128	2629	0.066	ug/L #	71

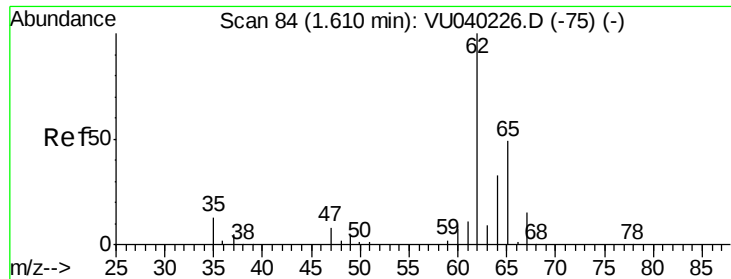
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.037 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

Instrument :

MSVOA_U

ClientSampled :

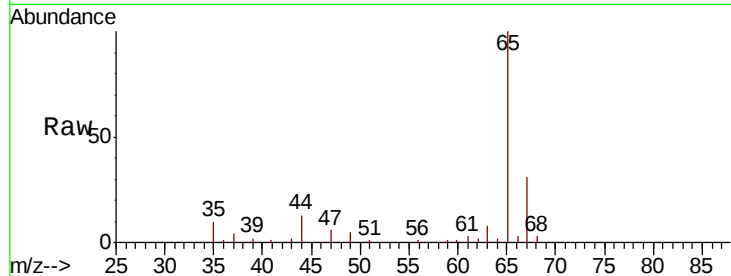
BG0P0

Tot Ion: 62 Resp: 625

Ion Ratio Lower Upper

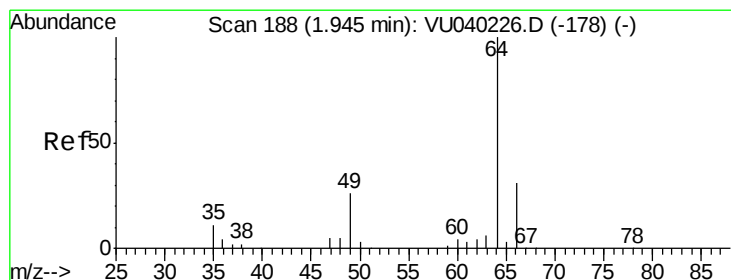
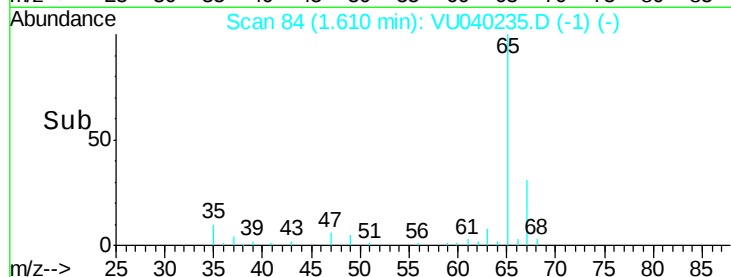
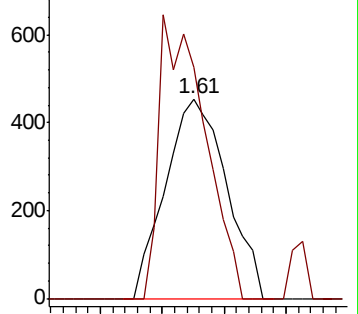
62 100

64 115.6 23.9 44.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.906 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040235.D

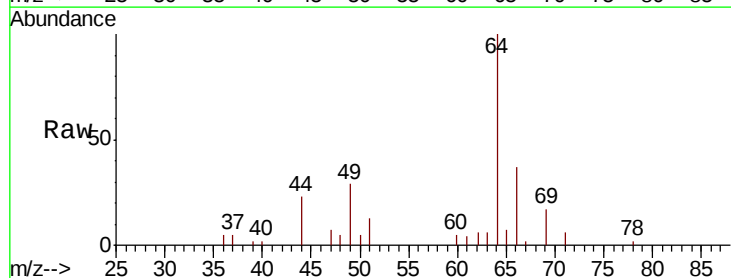
Acq: 21 Sep 2020 15:49

Tgt Ion: 64 Resp: 9194

Ion Ratio Lower Upper

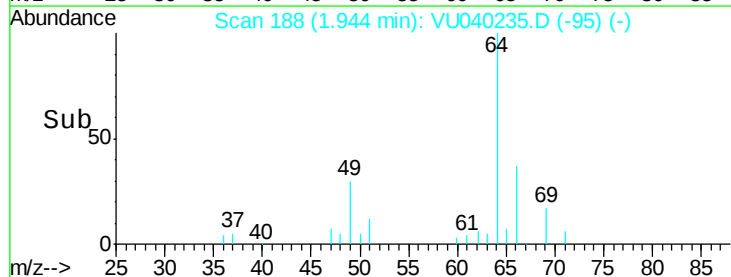
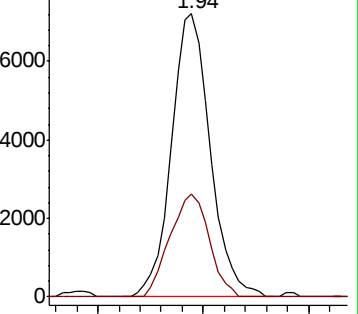
64 100

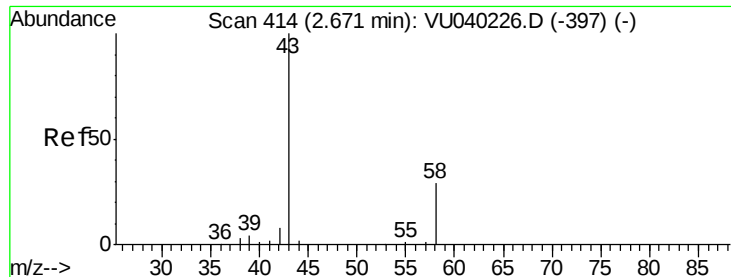
66 36.5 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#13

Acetone

Concen: 41.056 ug/L

RT: 2.39 min Scan# 326

Delta R.T. -0.28 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

Instrument :

MSVOA_U

ClientSampled :

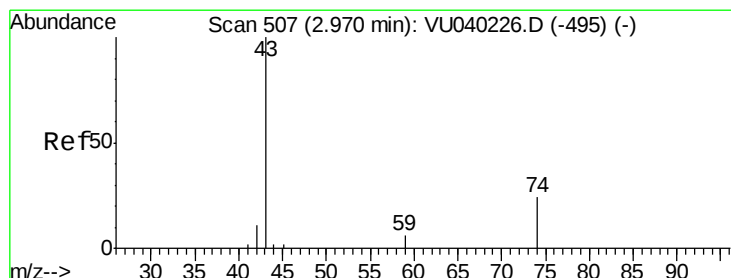
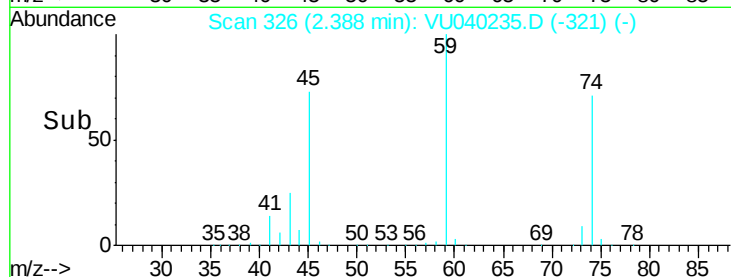
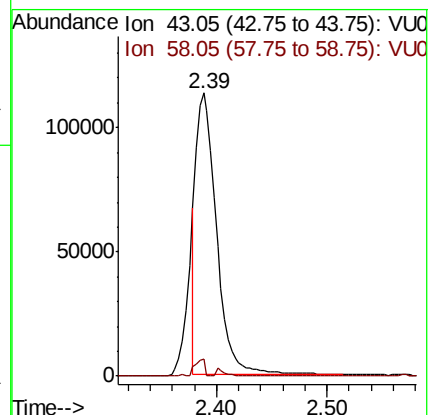
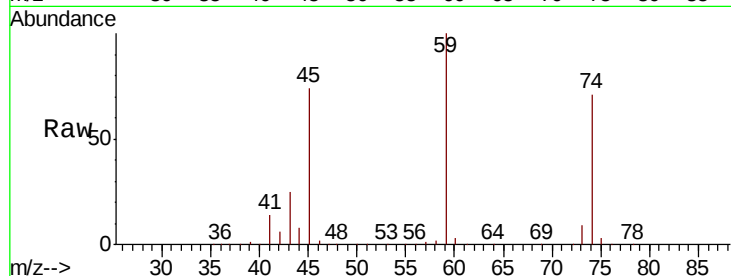
BG0P0

Tot Ion: 43 Resp: 145576

Ion Ratio Lower Upper

43 100

58 2.4 0.0 55.4



#15

Methyl Acetate

Concen: 3.974 ug/L

RT: 3.10 min Scan# 547

Delta R.T. 0.13 min

Lab File: VU040235.D

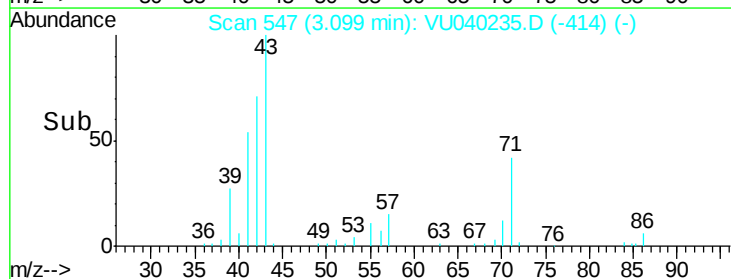
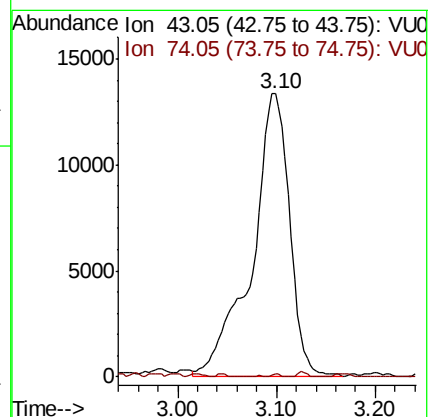
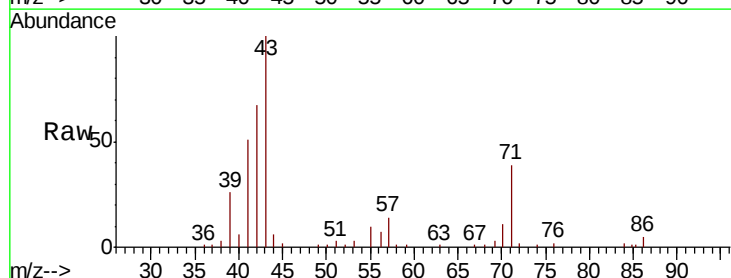
Acq: 21 Sep 2020 15:49

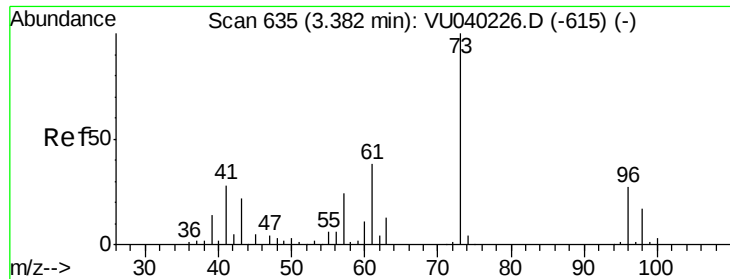
Tgt Ion: 43 Resp: 35363

Ion Ratio Lower Upper

43 100

74 0.2 17.4 26.0#

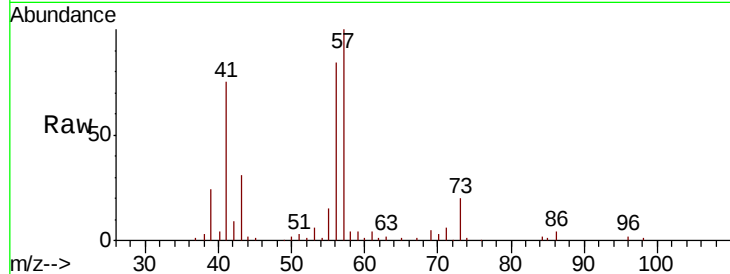




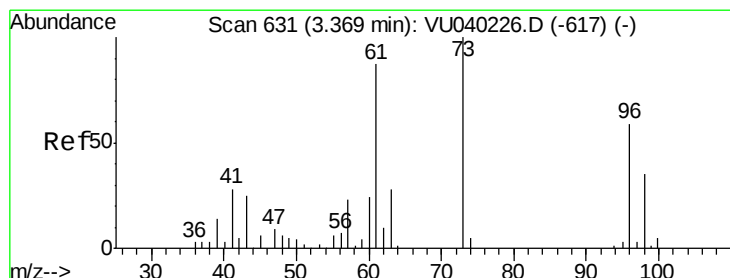
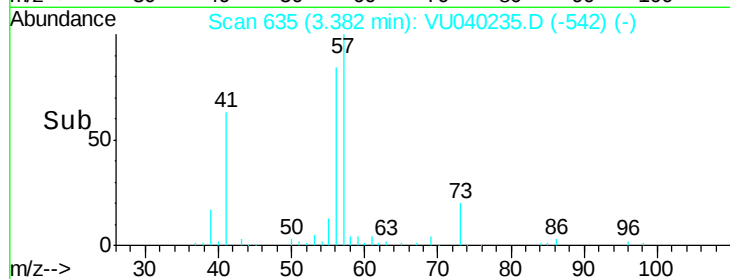
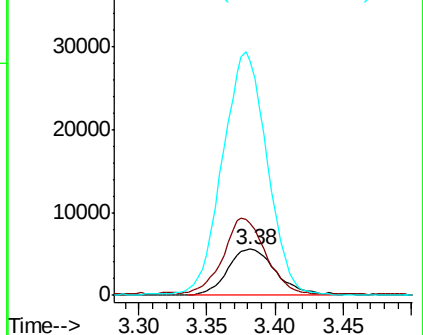
#17
Methvl tert-butvl Ether
Concen: 0.336 ug/L
RT: 3.38 min Scan# 635
Delta R.T. -0.00 min
Lab File: VU040235.D
Acq: 21 Sep 2020 15:49

Instrument :
MSVOA_U
ClientSampleId :
BG0P0

Tot Ion: 73 Resp: 13766
Ion Ratio Lower Upper
73 100
43 142.0 19.1 28.7#
57 486.5 18.3 27.5#

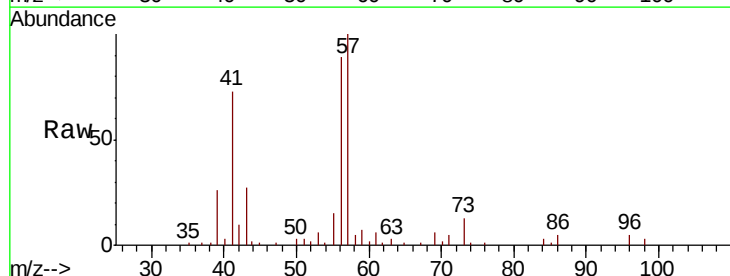


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

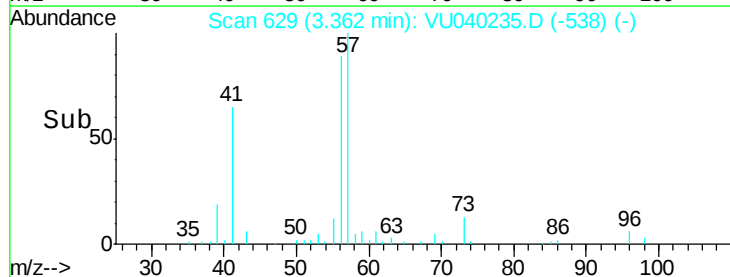
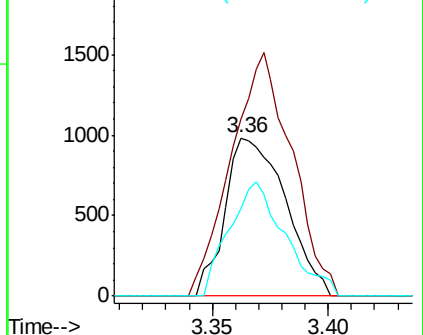


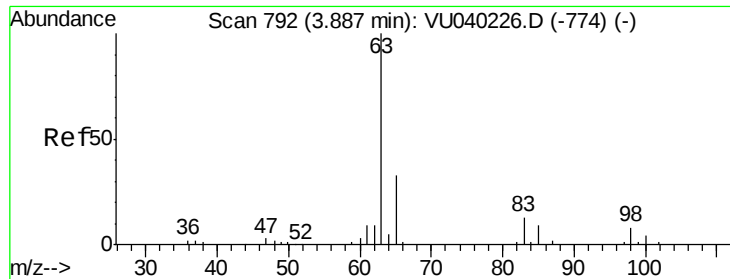
#18
trans-1,2-Dichloroethene
Concen: 0.122 ug/L
RT: 3.36 min Scan# 629
Delta R.T. -0.01 min
Lab File: VU040235.D
Acq: 21 Sep 2020 15:49

Tgt Ion: 96 Resp: 1781
Ion Ratio Lower Upper
96 100
61 112.0 110.5 205.3
98 55.0 43.2 80.2



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

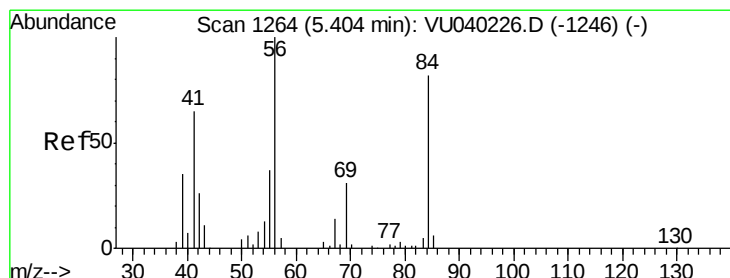
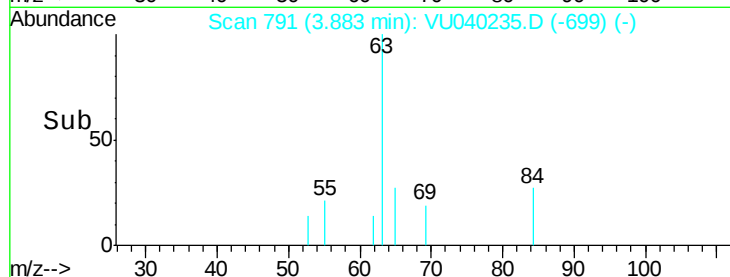
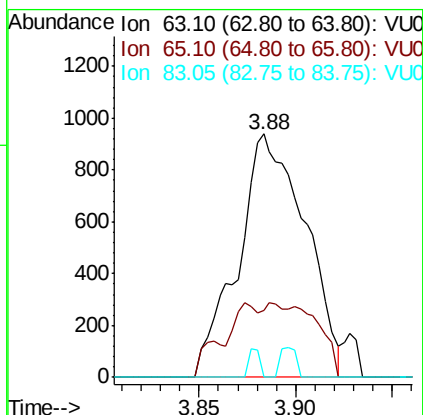
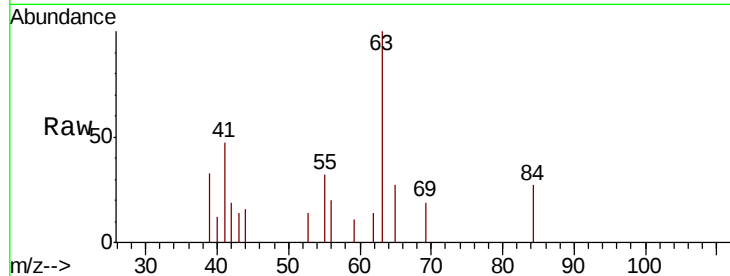




#19
 1,1-Dichloroethane
 Concen: 0.076 ug/L
 RT: 3.88 min Scan# 791
 Delta R.T. -0.00 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

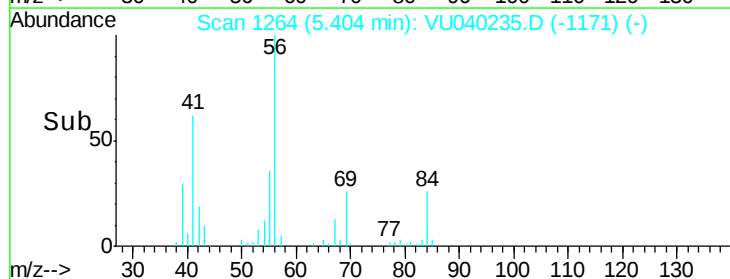
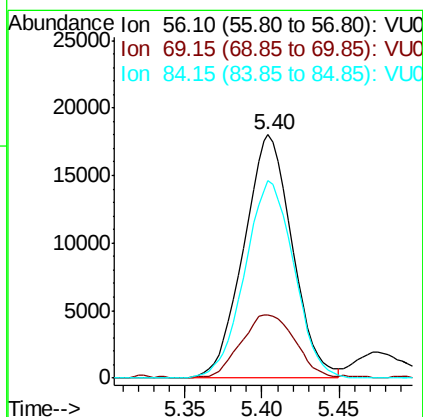
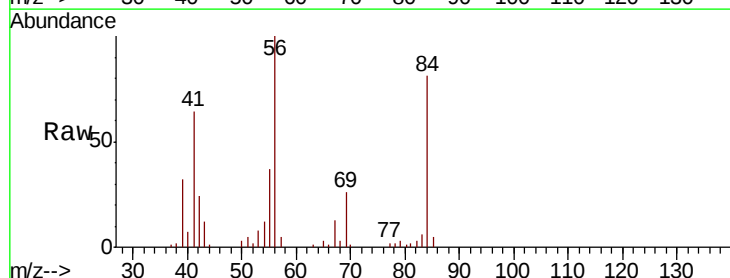
Instrument :
 MSVOA_U
 ClientSampled :
 BG0P0

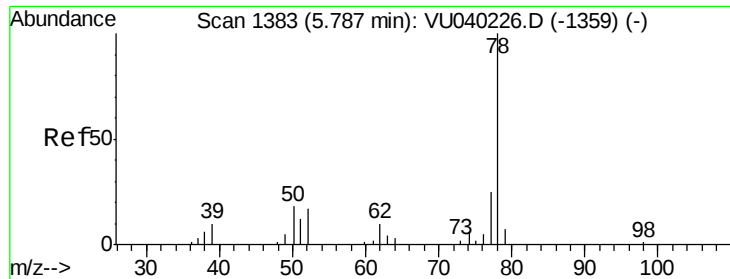
Tot Ion: 63 Resp: 2281
 Ion Ratio Lower Upper
 63 100
 65 27.4 22.2 41.2
 83 0.0 9.4 17.6#



#30
 Cyclohexane
 Concen: 1.509 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

Tgt Ion: 56 Resp: 39354
 Ion Ratio Lower Upper
 56 100
 69 29.4 24.1 36.1
 84 82.2 65.0 97.4





#33

Benzene

Concen: 1.041 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

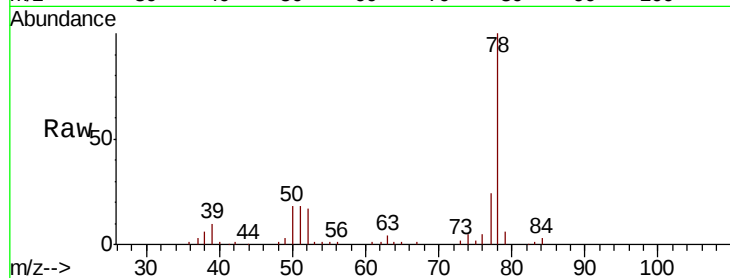
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MSVOA_U

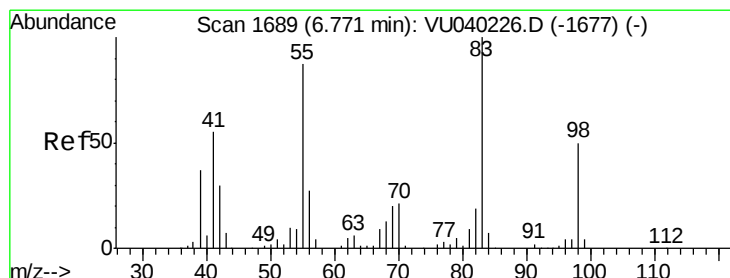
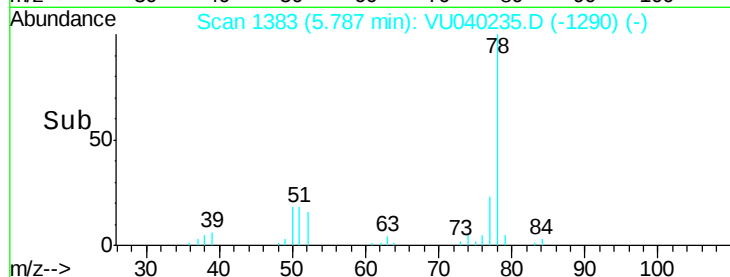
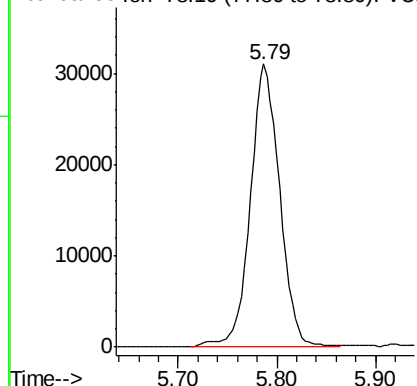
ClientSampled :

BG0P0

Tgt Ion: 78 Resp: 63766



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.854 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VU040235.D

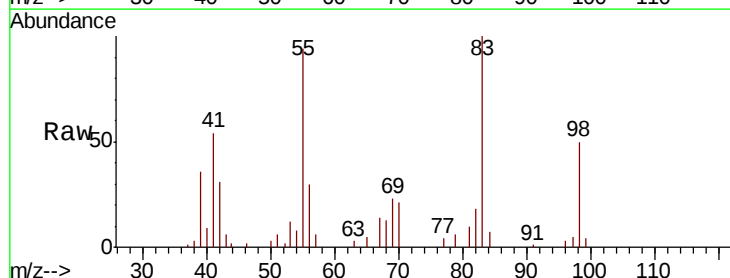
Acq: 21 Sep 2020 15:49

Tgt Ion: 83 Resp: 21492

Ion	Ratio	Lower	Upper
83	100		

55	107.2	70.5	105.7#
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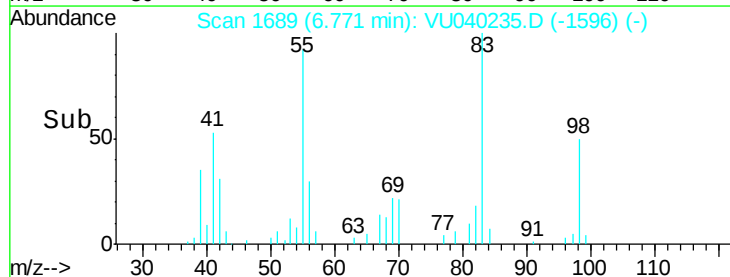
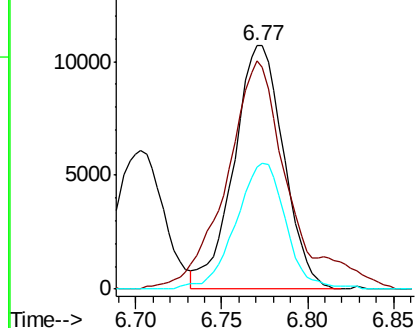
98	51.6	37.8	56.6
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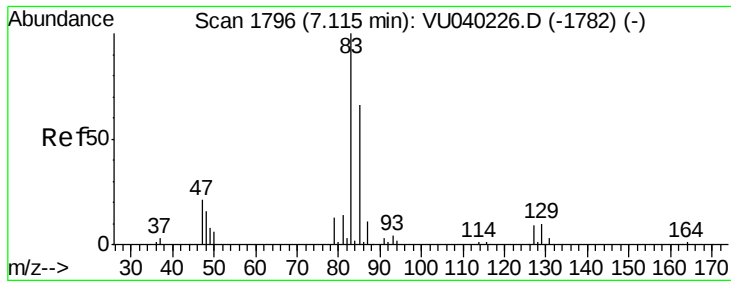


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

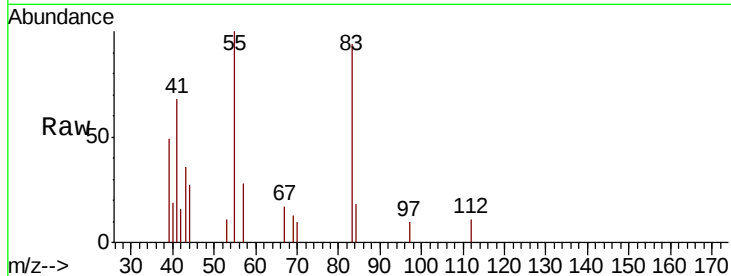




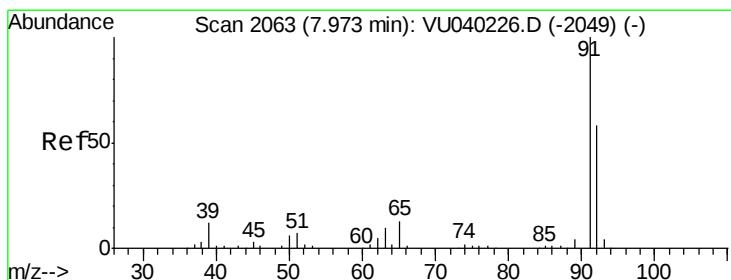
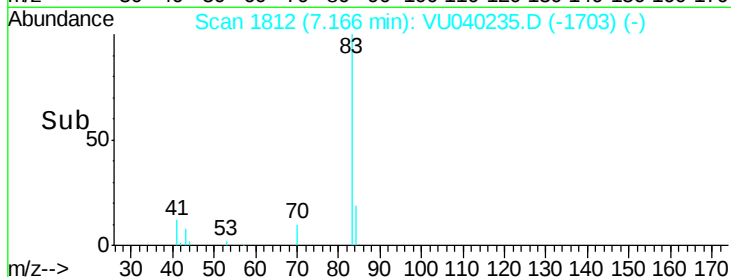
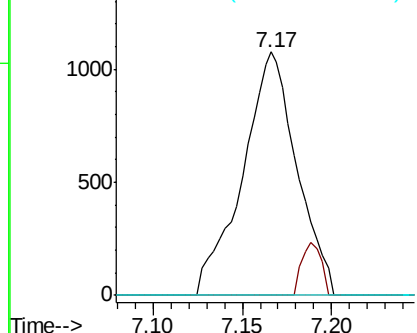
#38
 Bromodichloromethane
 Concen: 0.101 ug/L
 RT: 7.17 min Scan# 1812
 Delta R.T. 0.05 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

Instrument :
 MSVOA_U
 ClientSampled :
 BG0P0

Tot Ion: 83 Resp: 2287
 Ion Ratio Lower Upper
 83 100
 85 0.0 45.1 83.9#
 127 0.0 6.7 10.1#

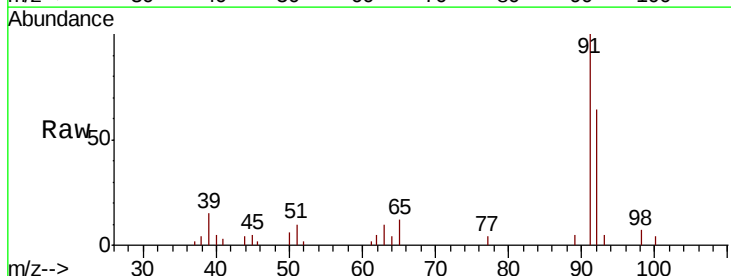


Abundance Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0
 Ion 126.90 (126.60 to 127.60): V

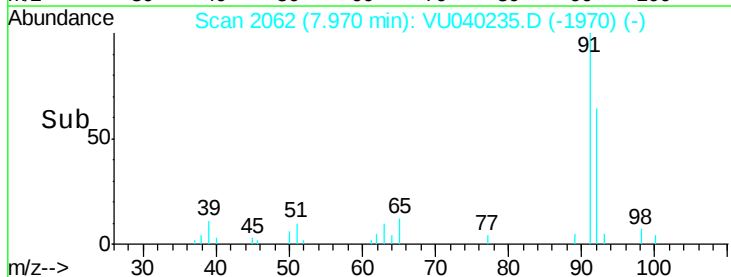
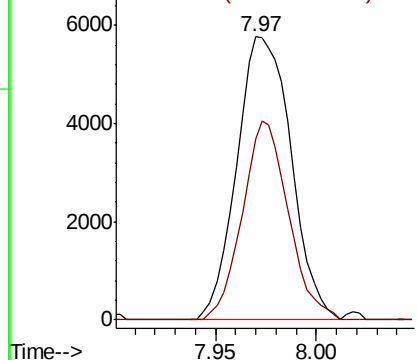


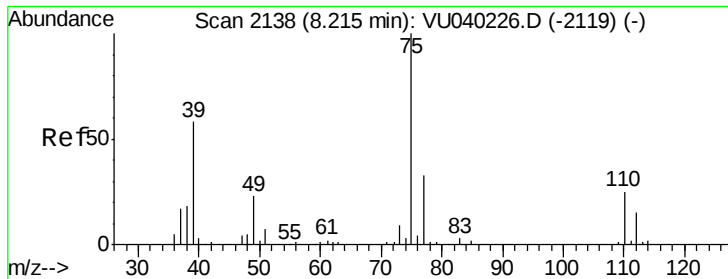
#42
 Toluene
 Concen: 0.172 ug/L
 RT: 7.97 min Scan# 2062
 Delta R.T. -0.00 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

Tgt Ion: 91 Resp: 10845
 Ion Ratio Lower Upper
 91 100
 92 64.1 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU0
 Ion 92.15 (91.85 to 92.85): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.049 ug/L

RT: 8.36 min Scan# 2184

Delta R.T. 0.15 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

Instrument :

MSVOA_U

ClientSampleId :

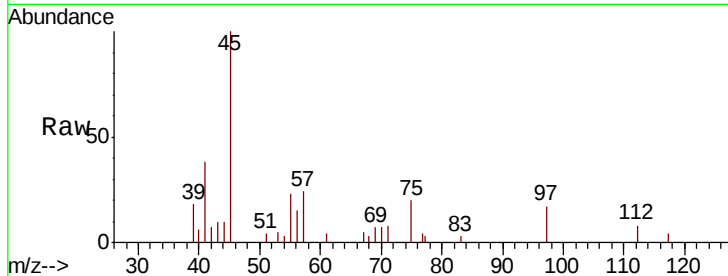
BG0P0

Tot Ion: 75 Resp: 1110

Ion Ratio Lower Upper

75 100

77 36.0 23.9 44.3

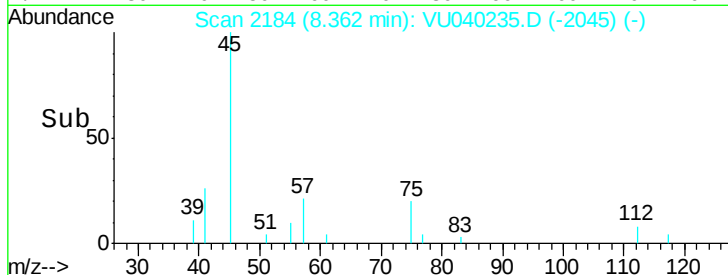


Abundance Ion 75.05 (74.75 to 75.75): VU0

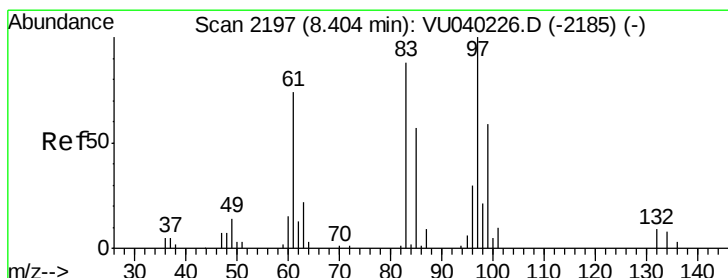
Ion 77.05 (76.75 to 77.75): VU0

8.36

8.40



Time-->



#45

1,1,2-Trichloroethane

Concen: 0.113 ug/L

RT: 8.38 min Scan# 2188

Delta R.T. -0.03 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

Tgt Ion: 97 Resp: 1370

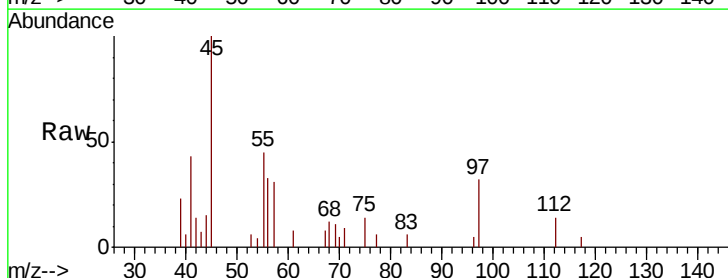
Ion Ratio Lower Upper

97 100

99 0.0 43.0 79.8#

83 18.3 61.7 114.7#

85 0.0 39.3 73.1#



Abundance Ion 96.95 (96.65 to 97.65): VU0

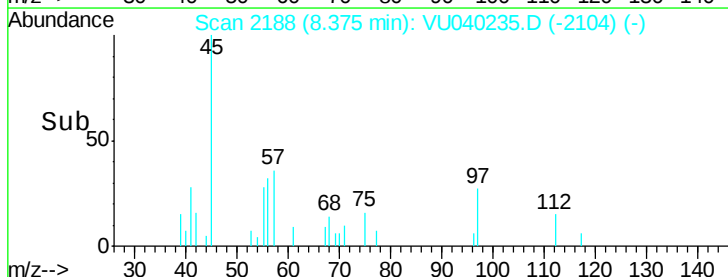
Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

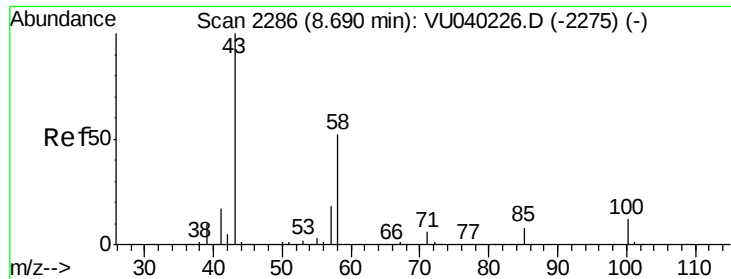
Ion 85.00 (84.70 to 85.70): VU0

8.38

8.40



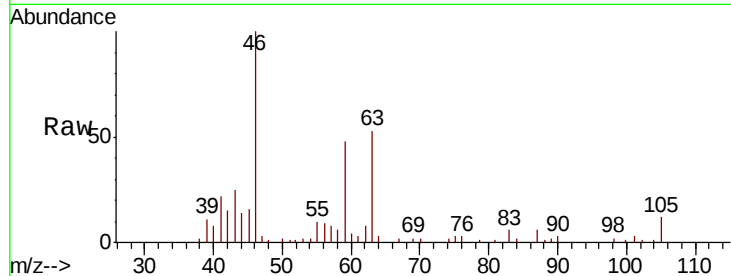
Time-->



#48
2-Hexanone
Concen: 0.494 ug/L
RT: 8.68 min Scan# 2284
Delta R.T. -0.01 min
Lab File: VU040235.D
Acq: 21 Sep 2020 15:49

Instrument :
MSVOA_U
ClientSampled :
BG0P0

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.6	59.4#
57	41.6	14.3	21.5#
100	0.4	8.0	12.0#

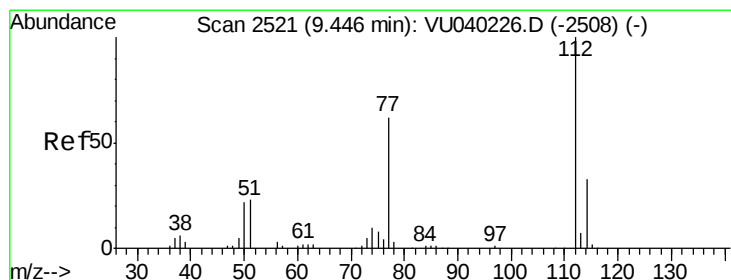
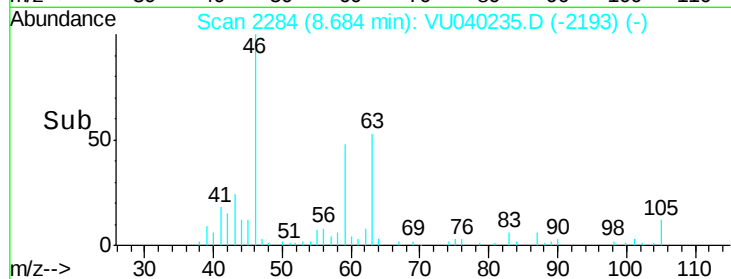
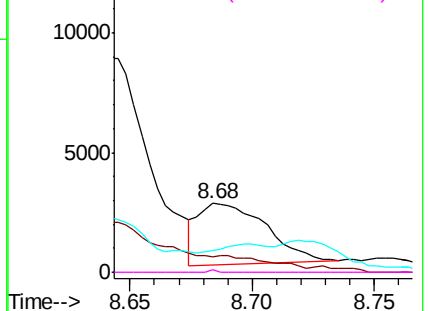


Abundance Ion 43.05 (42.75 to 43.75): VU040235.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU040235.D (-2193) (-)

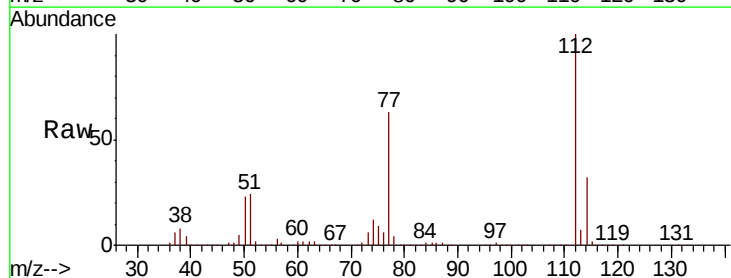
Ion 57.20 (56.90 to 57.90): VU040235.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU040235.D (-2193) (-)



#51
Chlorobenzene
Concen: 46.405 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040235.D
Acq: 21 Sep 2020 15:49

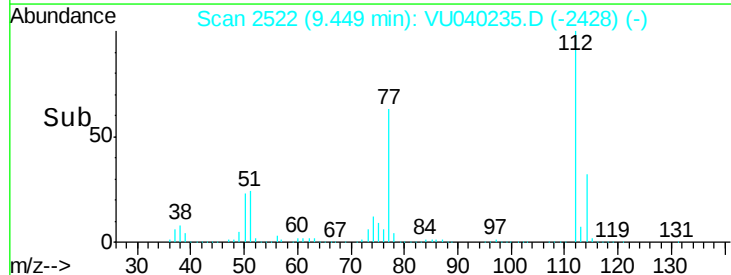
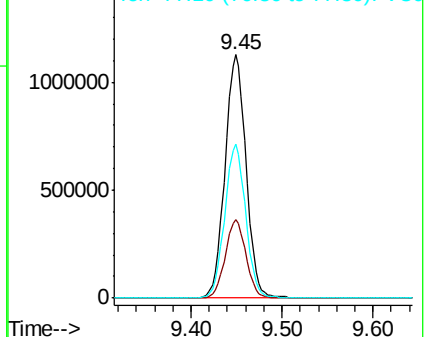
Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.7	42.3
77	63.0	53.2	79.8

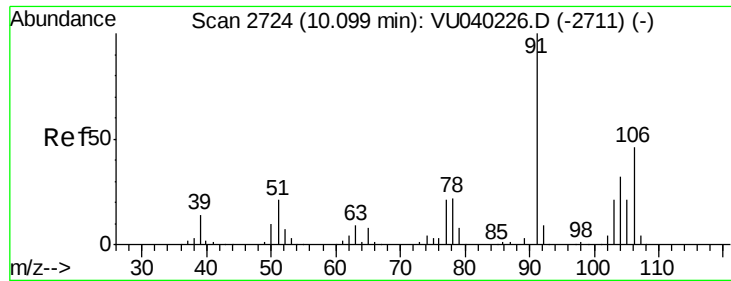


Abundance Ion 112.10 (111.80 to 112.80): VU040235.D (-2428) (-)

Ion 114.05 (113.75 to 114.75): VU040235.D (-2428) (-)

Ion 77.10 (76.80 to 77.80): VU040235.D (-2428) (-)

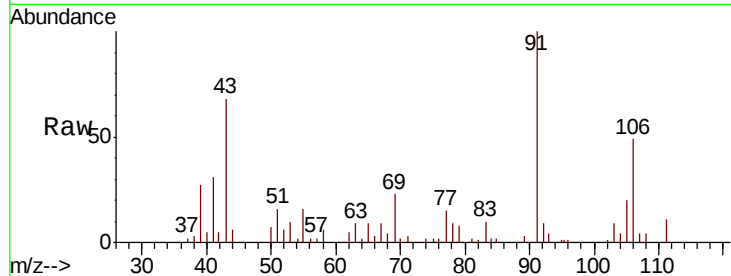




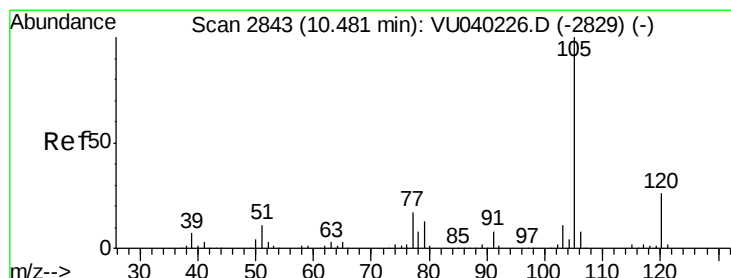
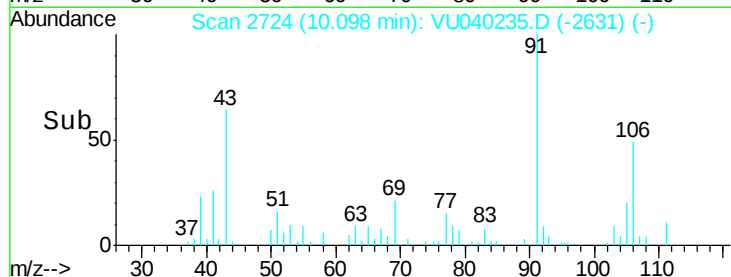
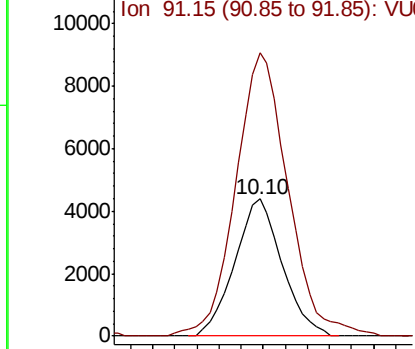
#54
o-Xylene
Concen: 0.269 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040235.D
Acq: 21 Sep 2020 15:49

Instrument :
MSVOA_U
ClientSampled :
BG0P0

Tot Ion:106 Resp: 6531
Ion Ratio Lower Upper
106 100
91 206.0 160.8 298.6

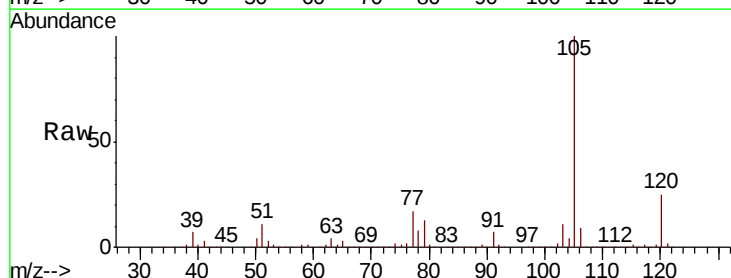


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

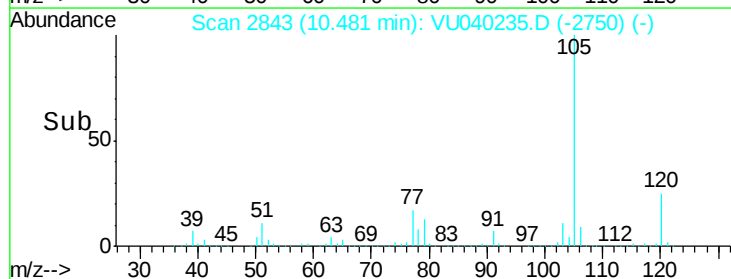
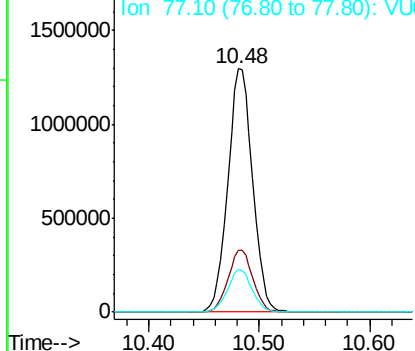


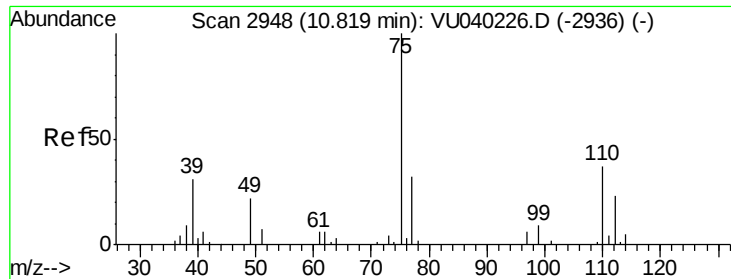
#56
Isopropylbenzene
Concen: 30.302 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. -0.00 min
Lab File: VU040235.D
Acq: 21 Sep 2020 15:49

Tgt Ion:105 Resp: 2009982
Ion Ratio Lower Upper
105 100
120 25.7 20.1 30.1
77 17.2 14.4 21.6



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VU0

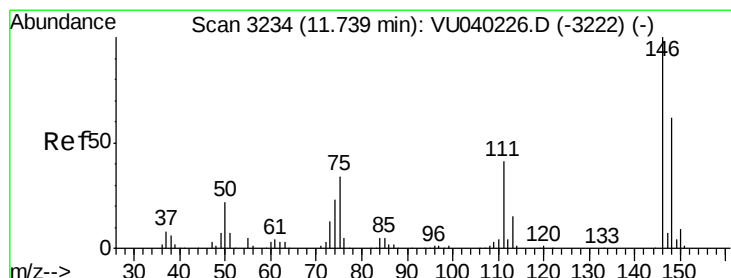
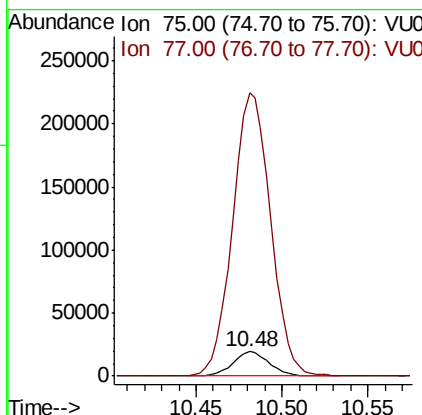
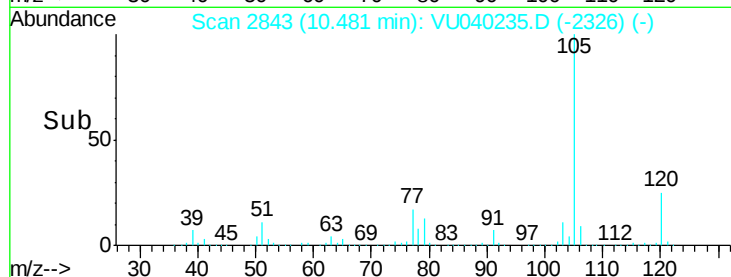
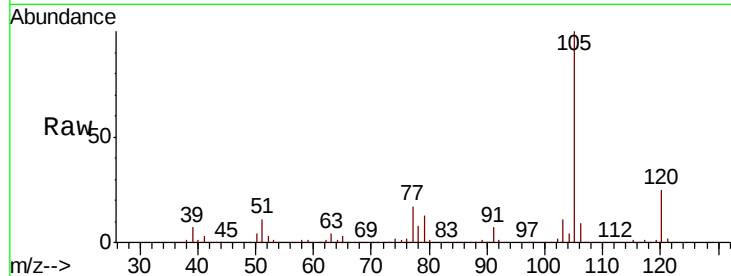




#59
 1,2,3-Trichloropropane
 Concen: 2.304 ug/L
 RT: 10.48 min Scan# 2843
 Delta R.T. -0.34 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

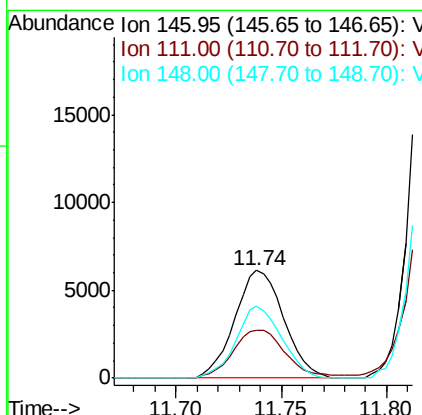
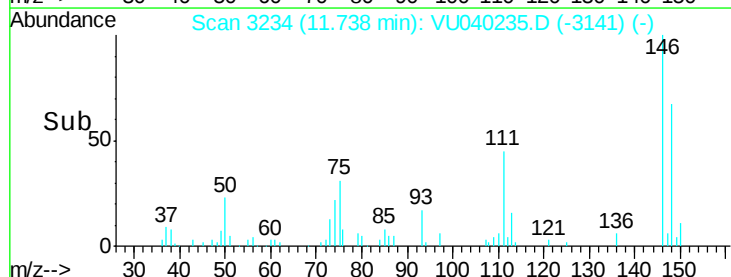
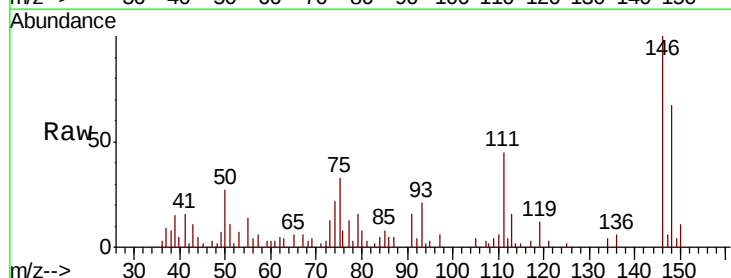
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P0

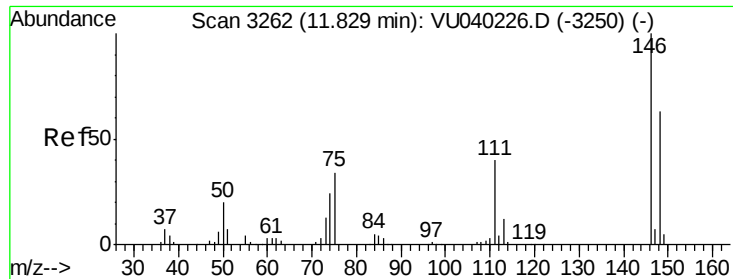
Tot Ion: 75 Resp: 28314
 Ion Ratio Lower Upper
 75 100
 77 1224.2 24.9 37.3#



#62
 1,3-Dichlorobenzene
 Concen: 0.313 ug/L
 RT: 11.74 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

Tgt Ion: 146 Resp: 9925
 Ion Ratio Lower Upper
 146 100
 111 44.9 31.6 58.8
 148 67.0 44.2 82.0





#63

1,4-Dichlorobenzene

Concen: 3.146 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

Instrument :

MSVOA_U

ClientSampled :

BG0P0

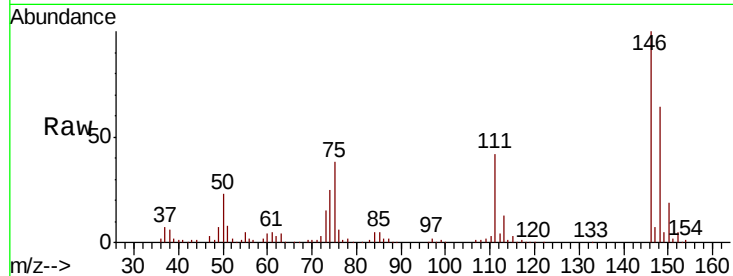
Tot Ion:146 Resp: 100796

Ion Ratio Lower Upper

146 100

111 41.9 30.5 56.7

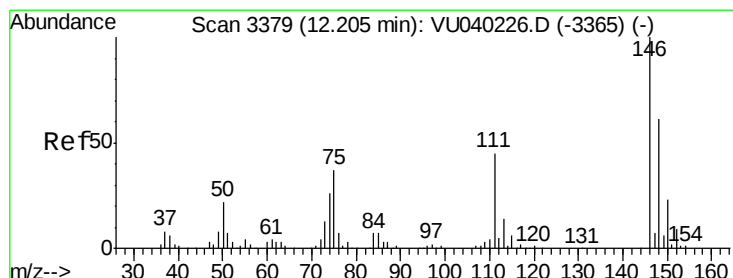
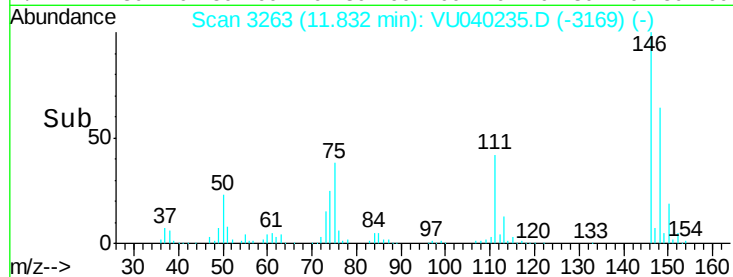
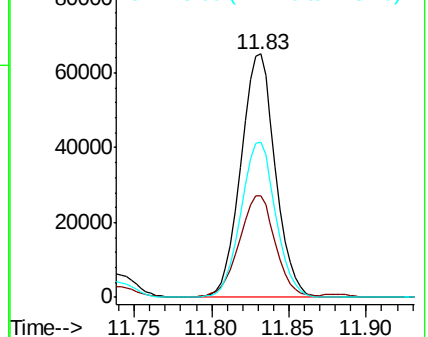
148 63.9 45.4 84.4



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



#65

1,2-Dichlorobenzene

Concen: 2.421 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040235.D

Acq: 21 Sep 2020 15:49

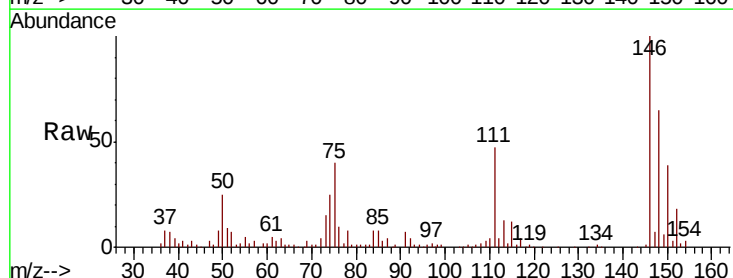
Tgt Ion:146 Resp: 74168

Ion Ratio Lower Upper

146 100

111 47.5 36.5 54.7

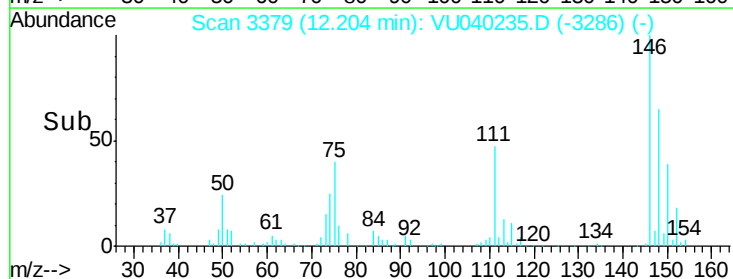
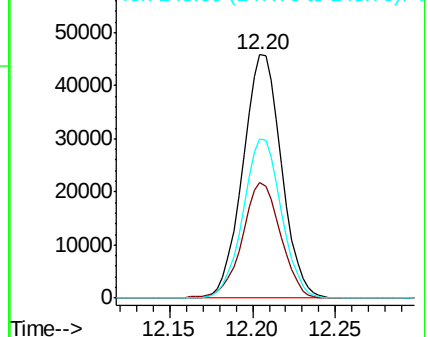
148 65.4 48.6 72.8

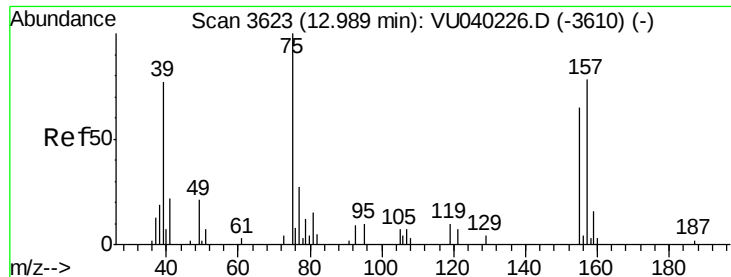


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

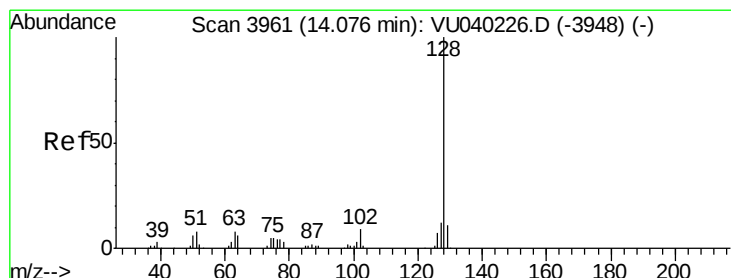
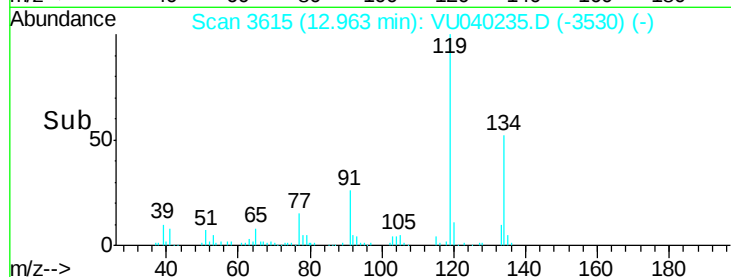
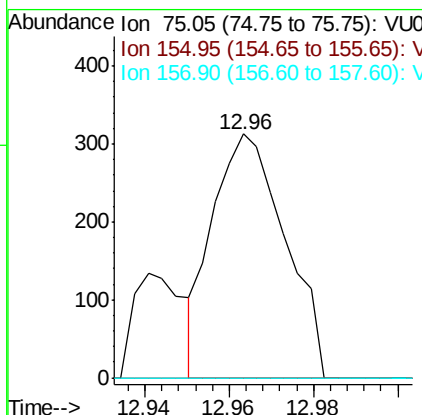
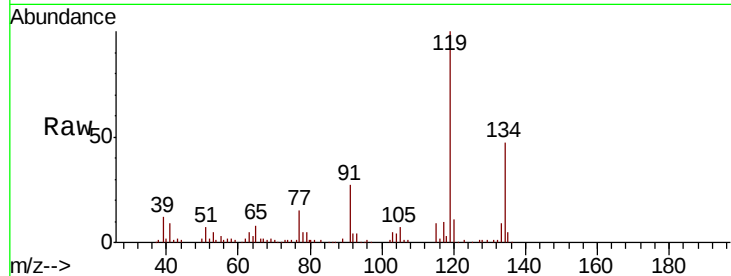




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.114 ug/L
 RT: 12.96 min Scan# 3615
 Delta R.T. -0.03 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0P0

Tot Ion: 75 Resp: 372
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.6 82.0#
 157 0.0 75.6 113.4#



#69
 Naphthalene
 Concen: 0.066 ug/L
 RT: 14.08 min Scan# 3961
 Delta R.T. -0.00 min
 Lab File: VU040235.D
 Acq: 21 Sep 2020 15:49

Tgt Ion: 128 Resp: 2629
 Ion Ratio Lower Upper
 128 100
 129 15.0 8.7 13.1#
 127 31.2 10.7 16.1#

