

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092820\
 Data File : VU040341.D
 Acq On : 28 Sep 2020 19:06
 Operator : SY/MD
 Sample : L4139-06DL 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG491DL

Quant Time: Sep 29 07:27:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 29 07:18:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	128954	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	128907	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	63568	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	36495	5.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.60%
7) Chloroethane-d5	1.92	69	35184	6.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	120.00%
11) 1,1-Dichloroethene-d2	2.58	63	58478	3.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.80%
20) 2-Butanone-d5	4.65	46	162508	57.71	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.42%
24) Chloroform-d	5.08	84	77956	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.72	65	49998	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
32) Benzene-d6	5.75	84	153655	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.20%
36) 1,2-Dichloropropane-d6	6.70	67	51898	5.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.60%
41) Toluene-d8	7.91	98	124643	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloropropene-	8.19	79	18929	4.15	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.00%
46) 2-Hexanone-d5	8.64	63	118827	55.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.10%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	45810	5.34	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	51979	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	2915	0.235	ug/L #	79
8) Chloroethane	1.94	64	23251	3.115	ug/L	99
13) Acetone	2.66	43	17267	6.623	ug/L	99
16) Methylene chloride	3.06	84	1842	0.141	ug/L	87
19) 1,1-Dichloroethane	3.89	63	2596	0.117	ug/L #	76
22) cis-1,2-Dichloroethene	4.69	96	18225	1.579	ug/L	97
25) Chloroform	5.11	83	4036	0.178	ug/L	98
27) 1,2-Dichloroethane	5.80	62	595	0.036	ug/L #	78
33) Benzene	5.79	78	82278	1.784	ug/L	100
35) Methylcyclohexane	6.77	83	1221	0.064	ug/L	91
37) 1,2-Dichloropropane	6.70	63	6084	0.487	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1259	0.068	ug/L #	27
42) Toluene	7.98	91	323176	6.805	ug/L	98
44) trans-1,3-Dichloropropene	8.18	75	1009	0.059	ug/L	89
48) 2-Hexanone	8.64	43	18638	2.494	ug/L #	71
51) Chlorobenzene	9.45	112	80063	2.715	ug/L	94
52) Ethylbenzene	9.57	91	51918	0.962	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 29 07:18:40 2020
Response via : Initial Calibration

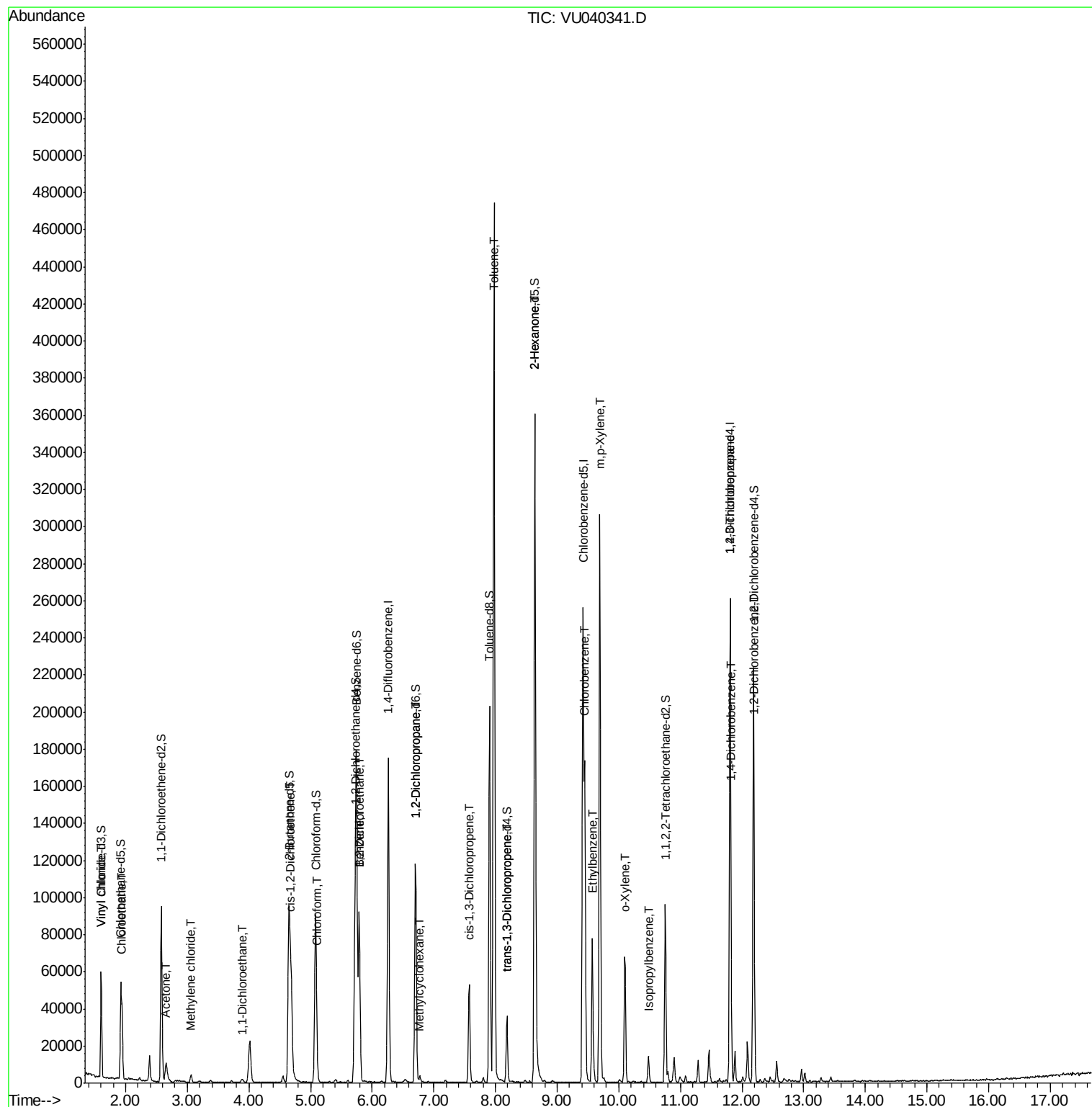
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.69	106	80958	4.214	ug/L	98
54) o-Xylene	10.10	106	16194	0.885	ug/L	93
56) Isopropylbenzene	10.48	105	9028	0.181	ug/L	96
59) 1,2,3-Trichloropropane	11.81	75	9777	1.057	ug/L	96
63) 1,4-Dichlorobenzene	11.83	146	2835	0.121	ug/L	96
65) 1,2-Dichlorobenzene	12.20	146	1977	0.088	ug/L	95

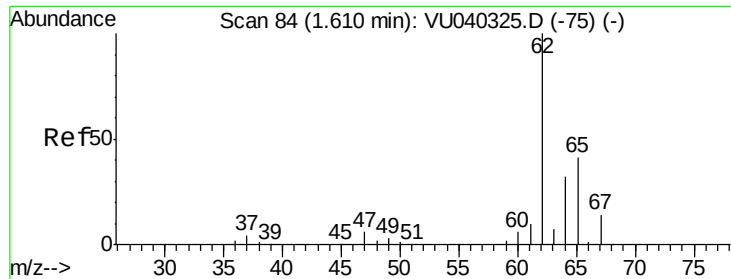
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.235 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

Instrument :

MSVOA_U

ClientSampleID :

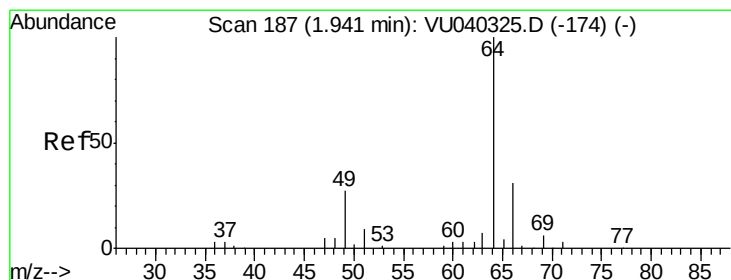
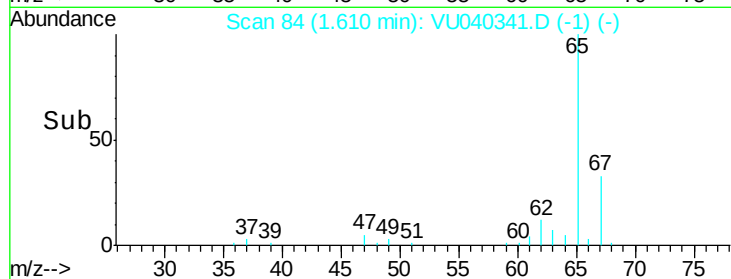
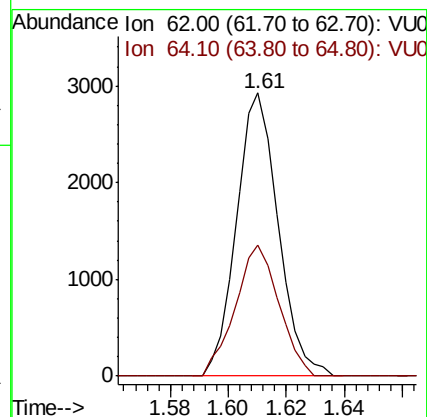
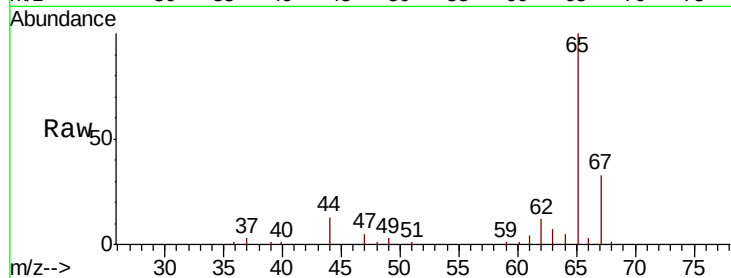
BG491DL

Tot Ion: 62 Resp: 2915

Ion Ratio Lower Upper

62 100

64 46.1 23.9 44.3#



#8

Chloroethane

Concen: 3.115 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040341.D

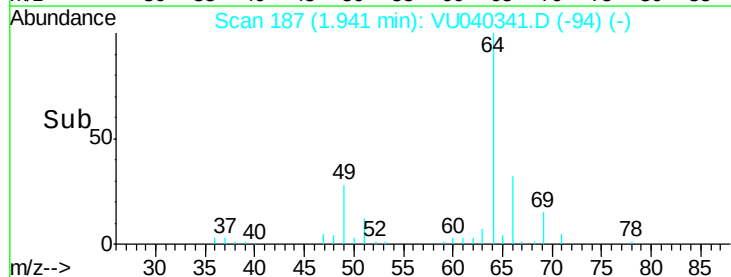
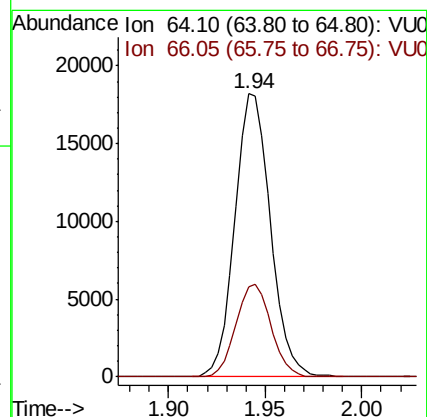
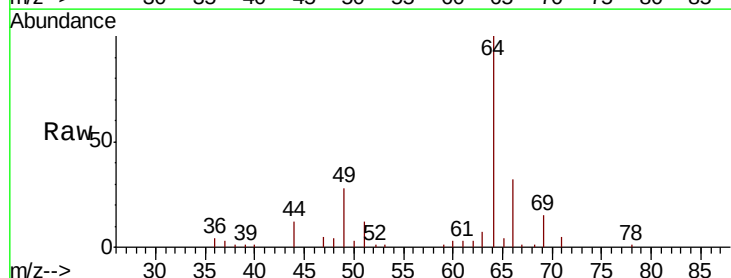
Acq: 28 Sep 2020 19:06

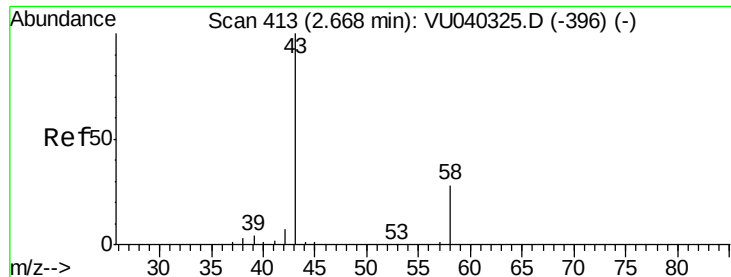
Tgt Ion: 64 Resp: 23251

Ion Ratio Lower Upper

64 100

66 31.8 22.7 42.1





#13

Acetone

Concen: 6.623 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.01 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

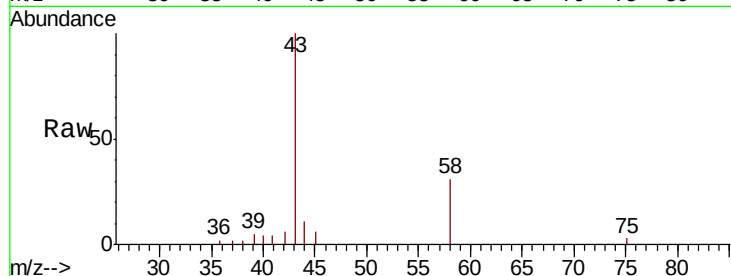
BG491DL

Tot Ion: 43 Resp: 17267

Ion Ratio Lower Upper

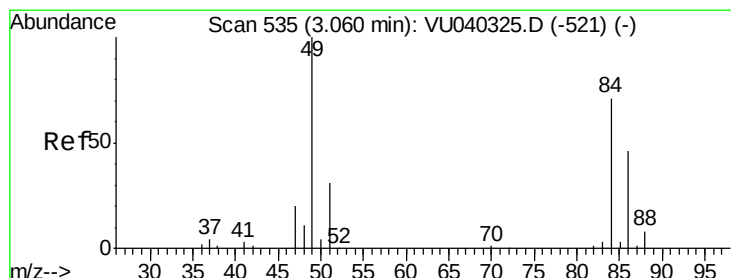
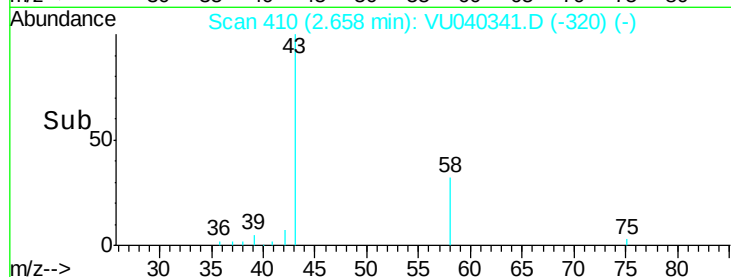
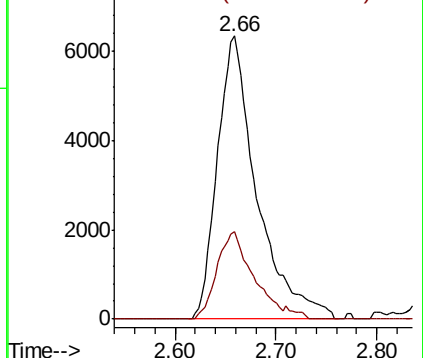
43 100

58 28.1 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#16

Methylene chloride

Concen: 0.141 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

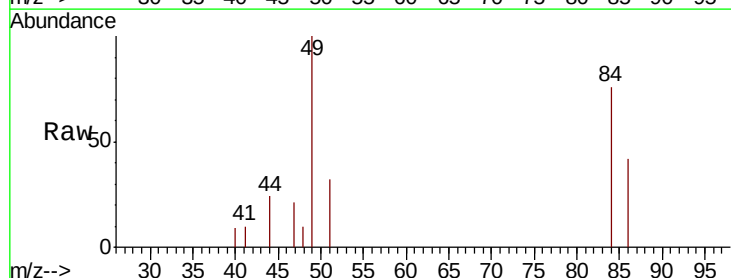
Tgt Ion: 84 Resp: 1842

Ion Ratio Lower Upper

84 100

86 55.2 45.2 84.0

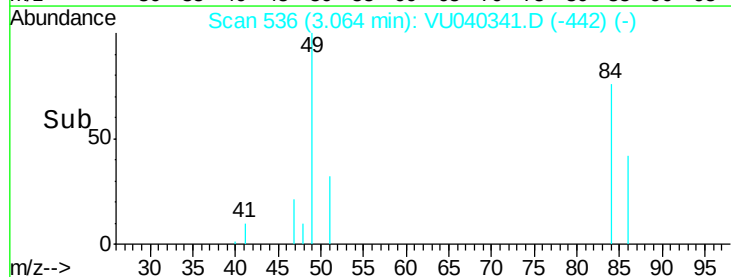
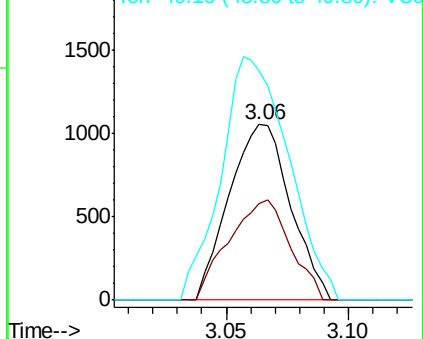
49 131.0 104.0 193.2

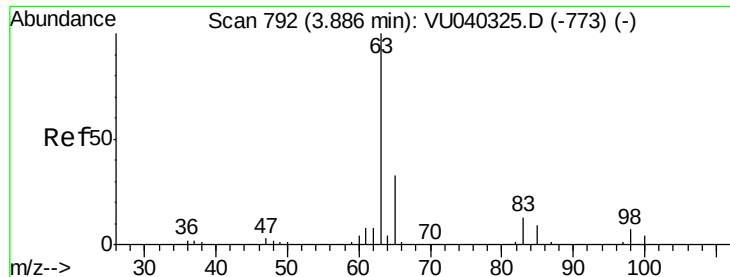


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

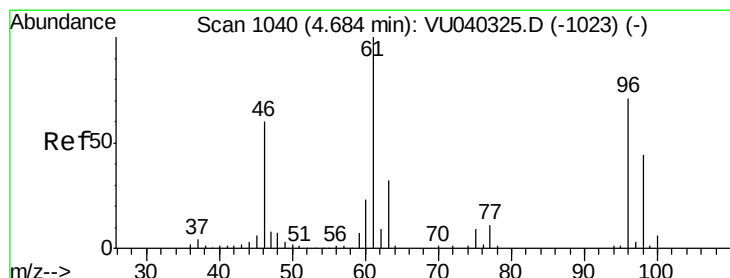
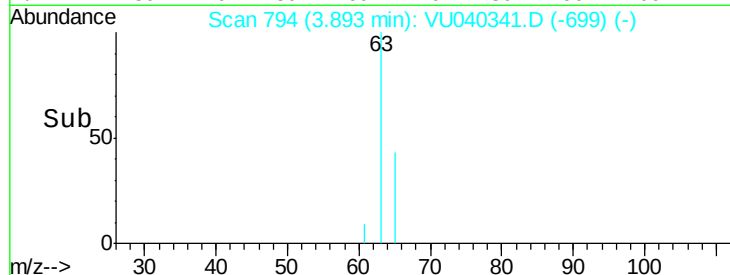
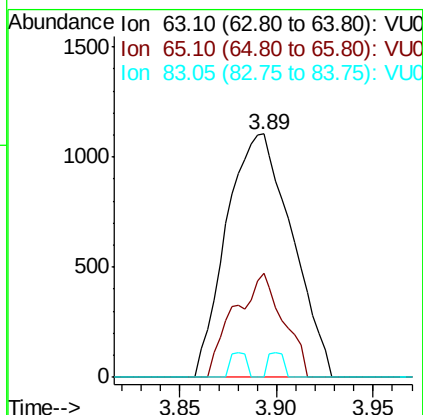
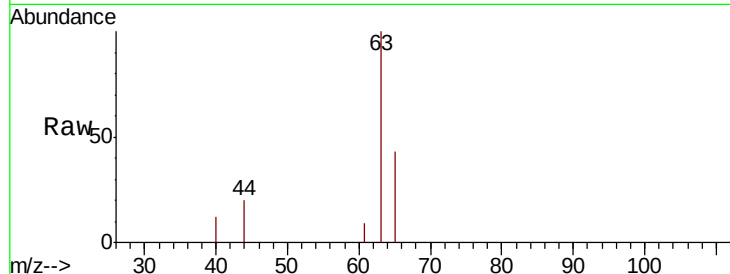




#19
 1,1-Dichloroethane
 Concen: 0.117 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.01 min
 Lab File: VU040341.D
 Acq: 28 Sep 2020 19:06

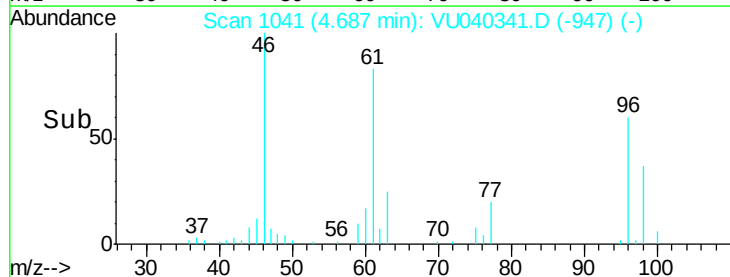
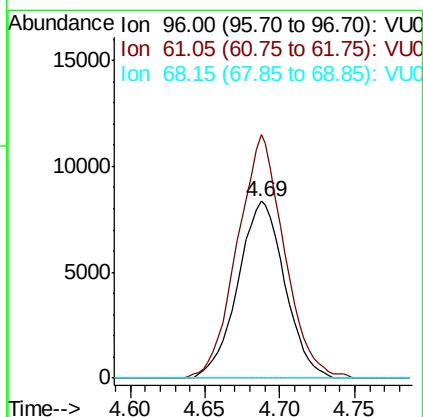
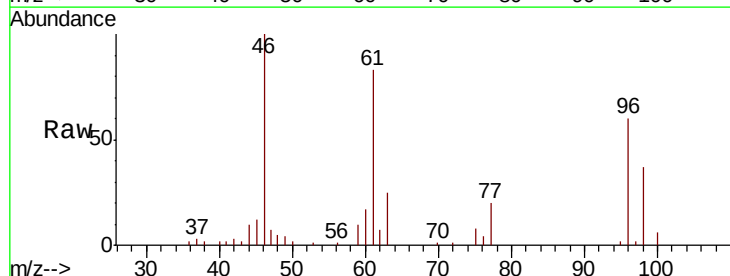
Instrument :
 MSVOA_U
 ClientSampled :
 BG491DL

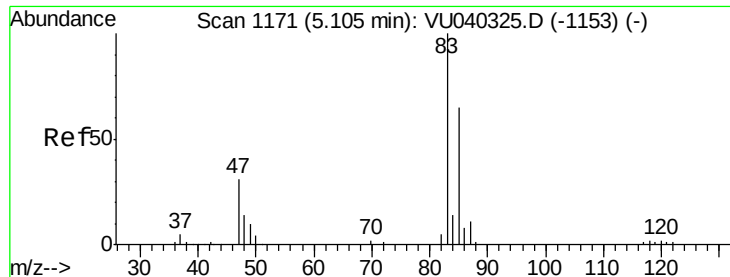
Tot Ion: 63 Resp: 2596
 Ion Ratio Lower Upper
 63 100
 65 42.5 22.2 41.2#
 83 0.0 9.4 17.6#



#22
 cis-1,2-Dichloroethene
 Concen: 1.579 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU040341.D
 Acq: 28 Sep 2020 19:06

Tgt Ion: 96 Resp: 18225
 Ion Ratio Lower Upper
 96 100
 61 137.7 98.8 183.4
 68 0.0 0.0 0.0

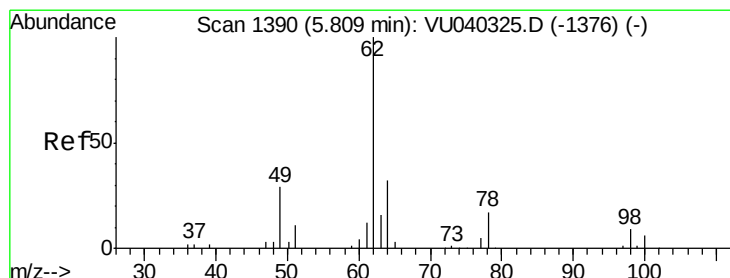
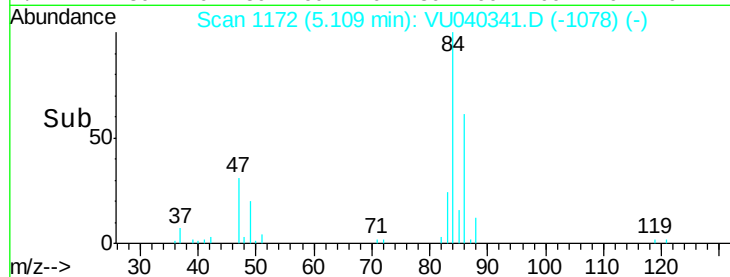
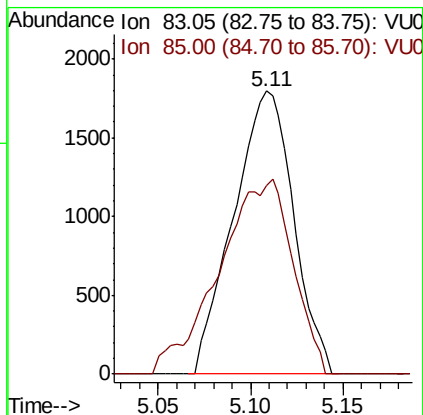
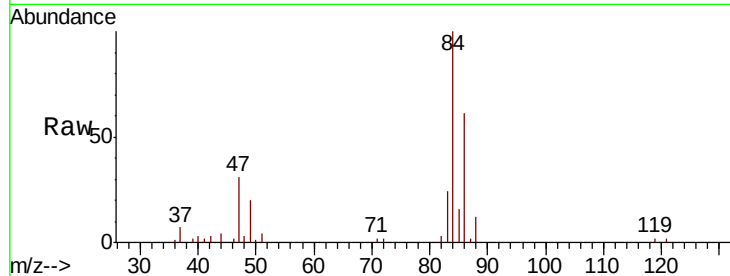




#25
Chloroform
Concen: 0.178 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040341.D
Acq: 28 Sep 2020 19:06

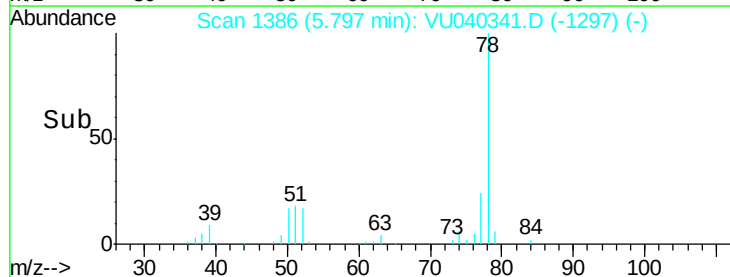
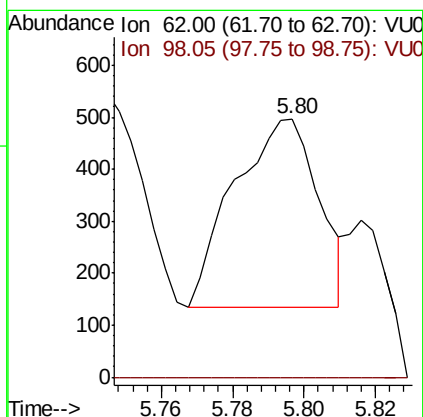
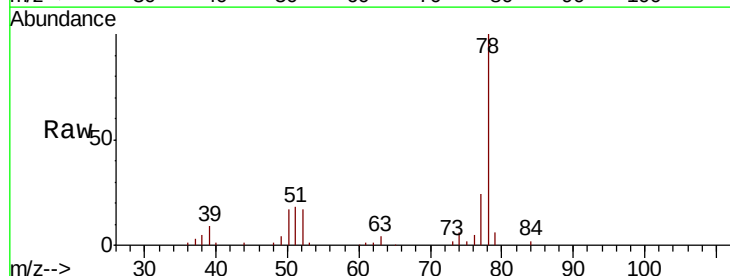
Instrument :
MSVOA_U
ClientSampleId :
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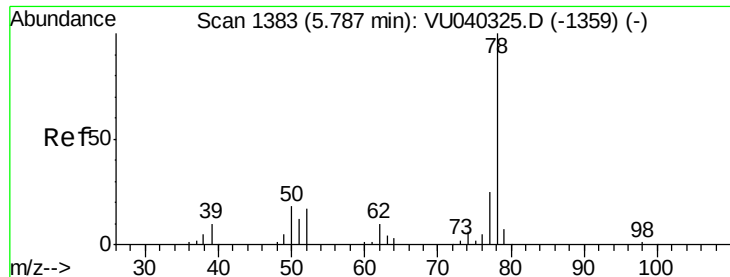
Tot Ion: 83 Resp: 4036
Ion Ratio Lower Upper
83 100
85 66.5 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.036 ug/L
RT: 5.80 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VU040341.D
Acq: 28 Sep 2020 19:06

Tgt Ion: 62 Resp: 595
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#





#33

Benzene

Concen: 1.784 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

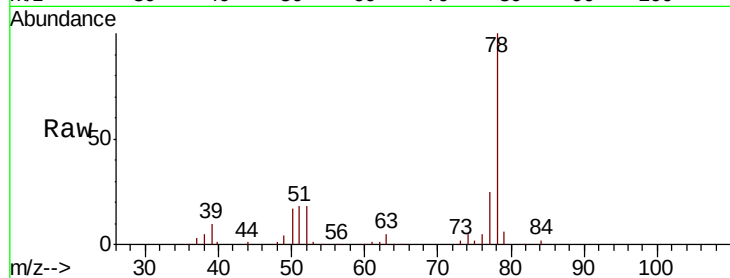
Instrument :

MSVOA_U

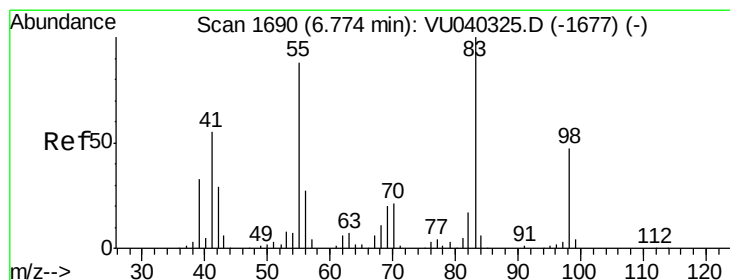
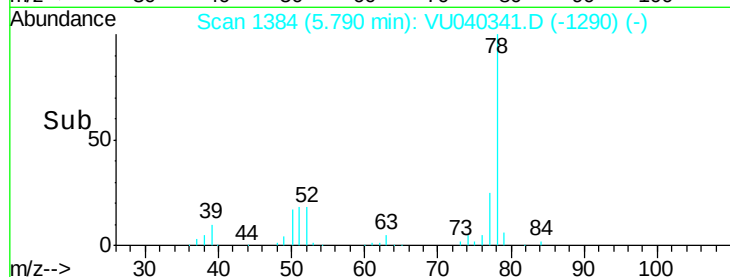
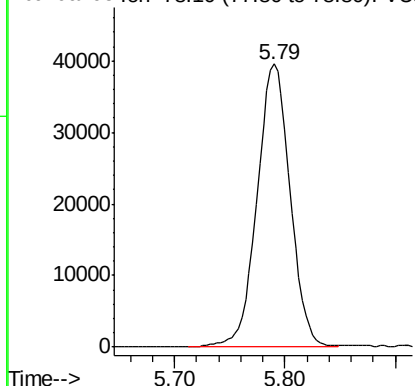
ClientSampleId :

BG491DL

Tgt Ion: 78 Resp: 82278



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.064 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU040341.D

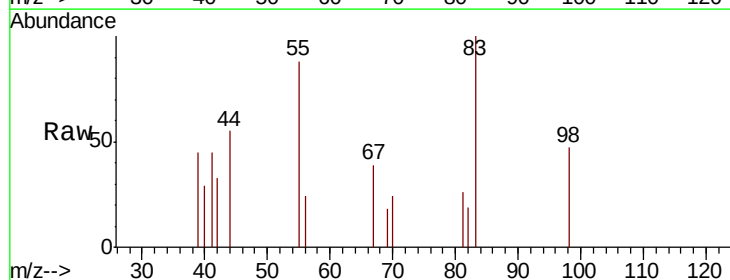
Acq: 28 Sep 2020 19:06

Tgt Ion: 83 Resp: 1221

Ion	Ratio	Lower	Upper
83	100		

55	94.8	70.5	105.7
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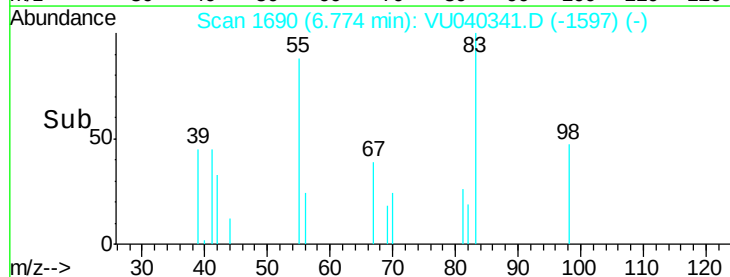
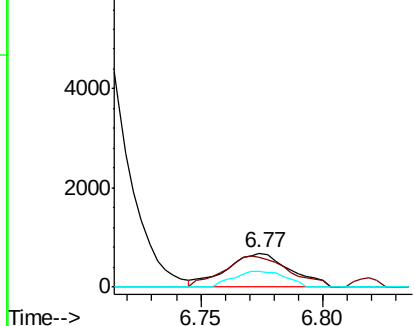
98	38.3	37.8	56.6
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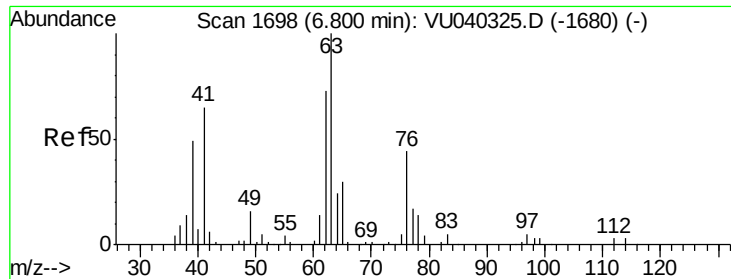


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

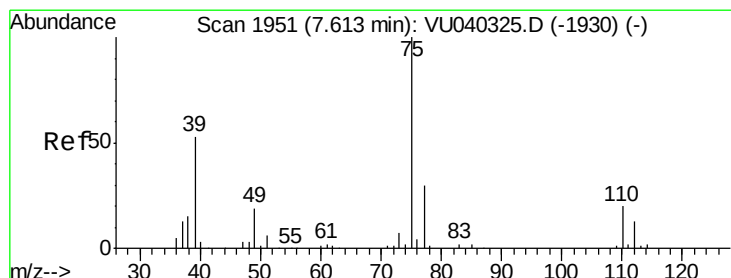
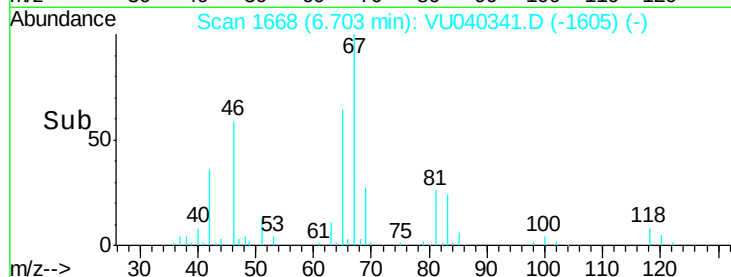
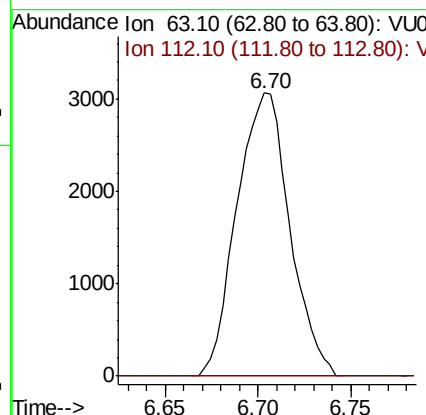
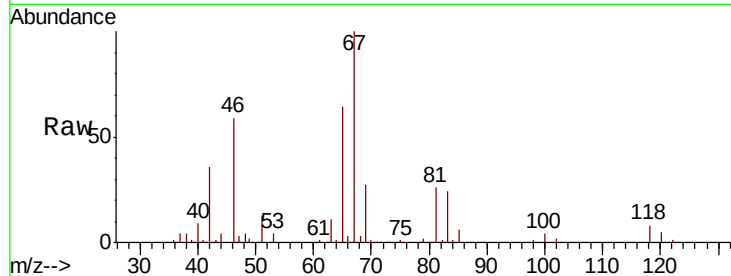




#37
 1,2-Dichloropropane
 Concen: 0.487 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040341.D
 Acq: 28 Sep 2020 19:06

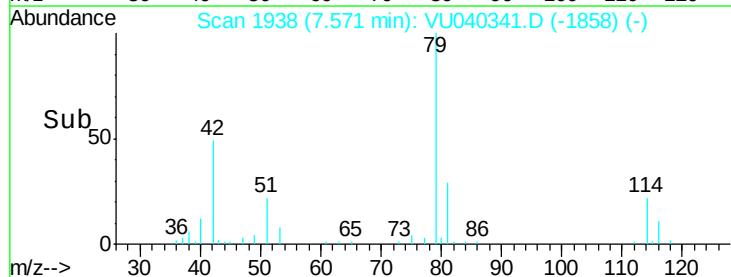
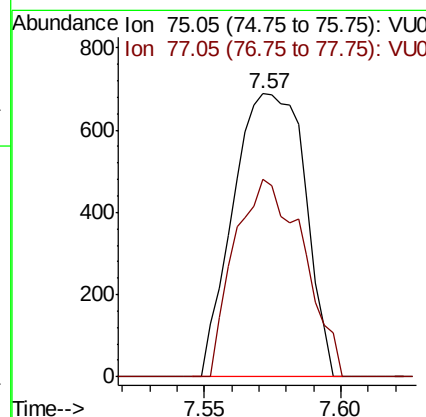
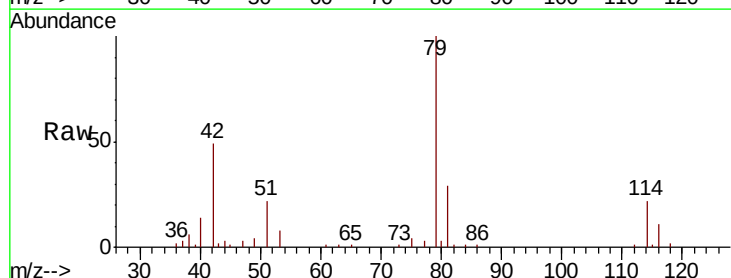
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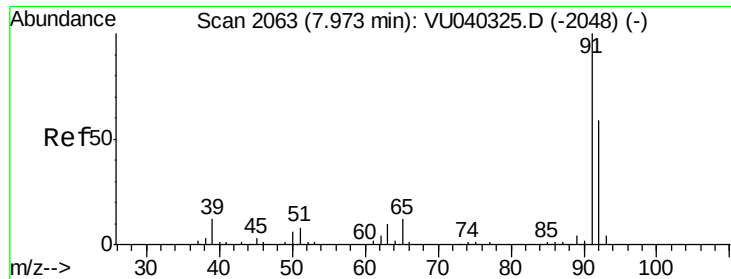
Tot Ion: 63 Resp: 6084
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.068 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040341.D
 Acq: 28 Sep 2020 19:06

Tgt Ion: 75 Resp: 1259
 Ion Ratio Lower Upper
 75 100
 77 69.8 21.1 39.3#





#42

Toluene

Concen: 6.805 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

Instrument :

MSVOA_U

ClientSampled :

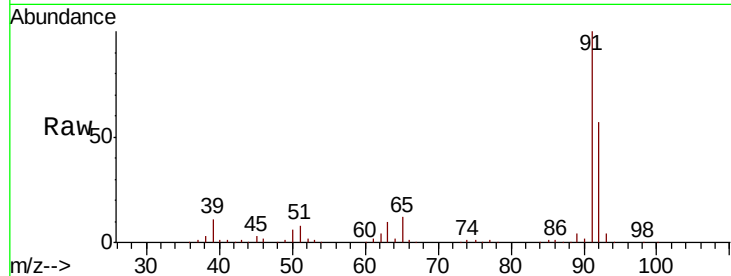
BG491DL

Tot Ion: 91 Resp: 323176

Ion Ratio Lower Upper

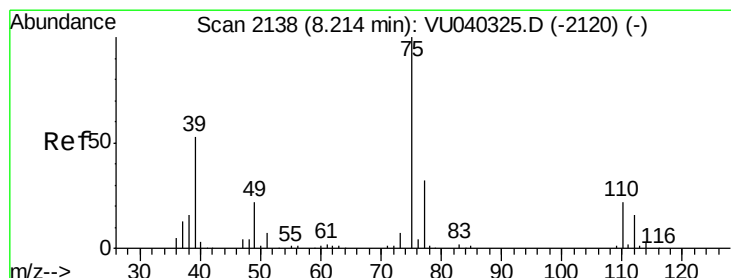
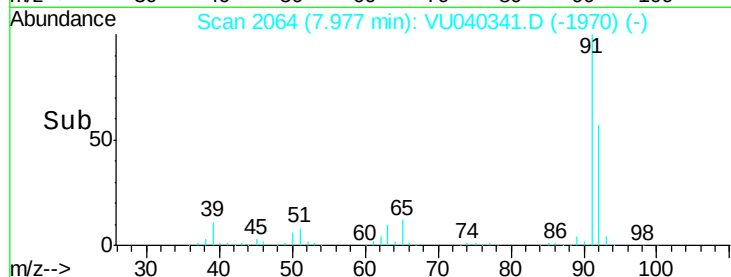
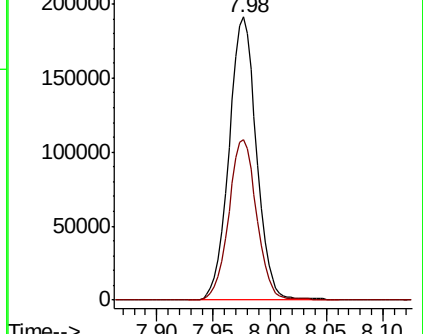
91 100

92 56.7 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: 0.059 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU040341.D

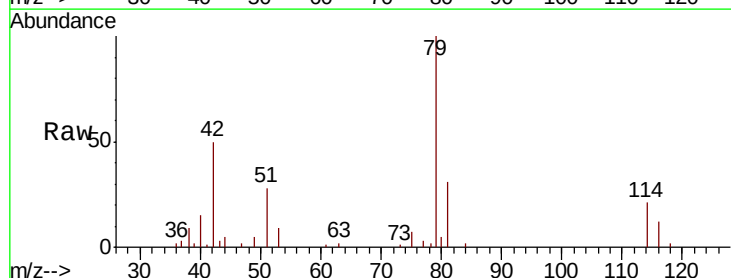
Acq: 28 Sep 2020 19:06

Tgt Ion: 75 Resp: 1009

Ion Ratio Lower Upper

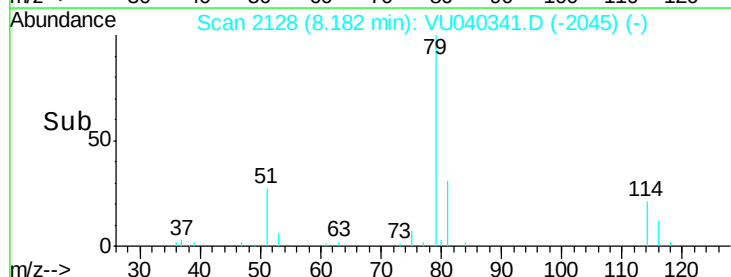
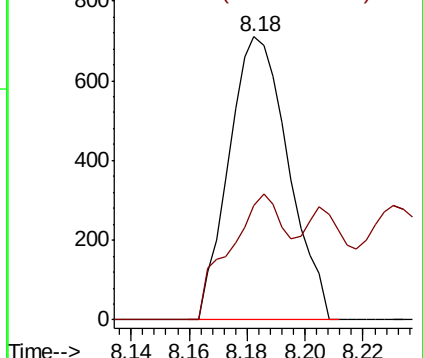
75 100

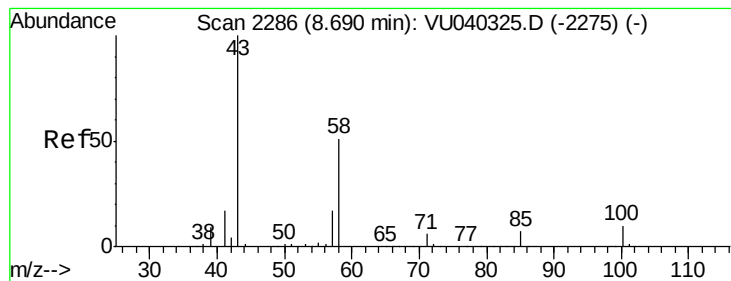
77 40.4 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#48

2-Hexanone

Concen: 2.494 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

BG491DL

Tot Ion: 43 Resp: 18638

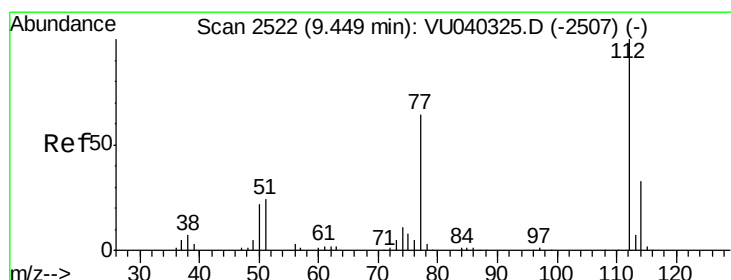
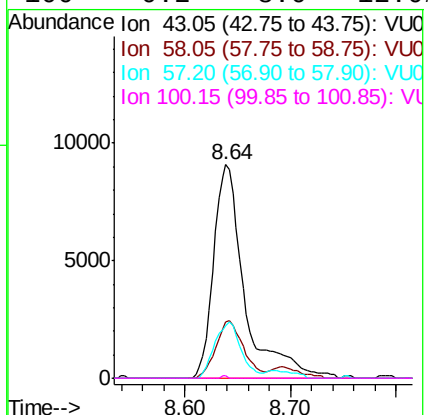
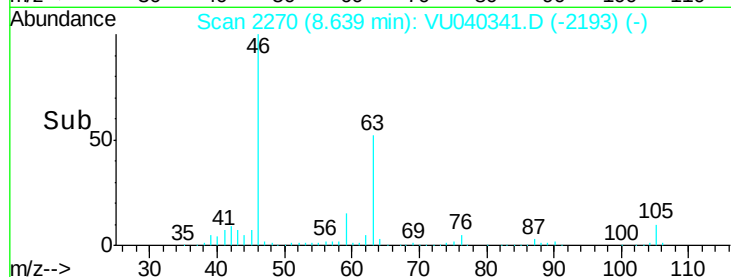
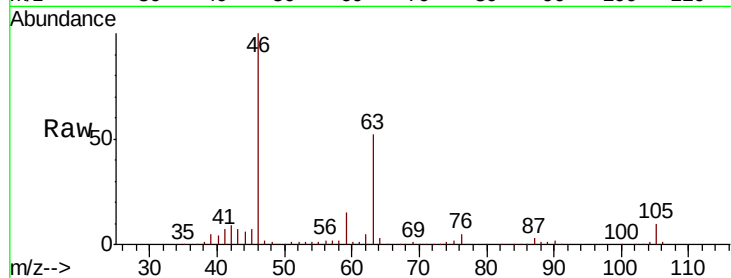
Ion Ratio Lower Upper

43 100

58 24.0 39.6 59.4#

57 22.2 14.3 21.5#

100 0.2 8.0 12.0#



#51

Chlorobenzene

Concen: 2.715 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

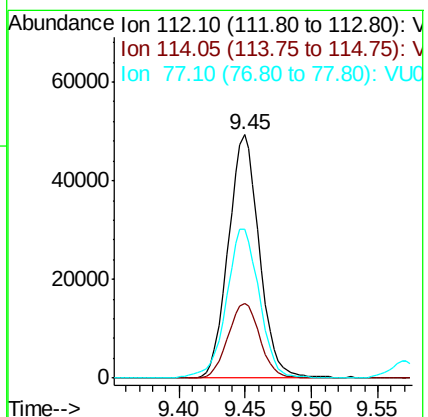
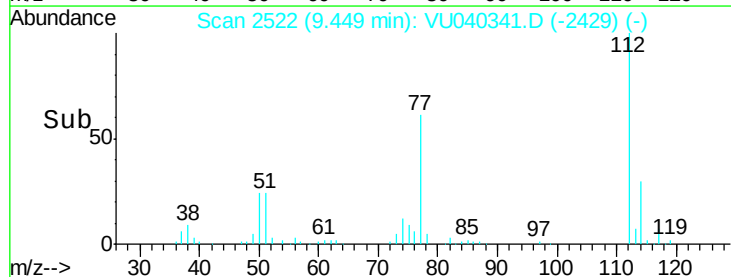
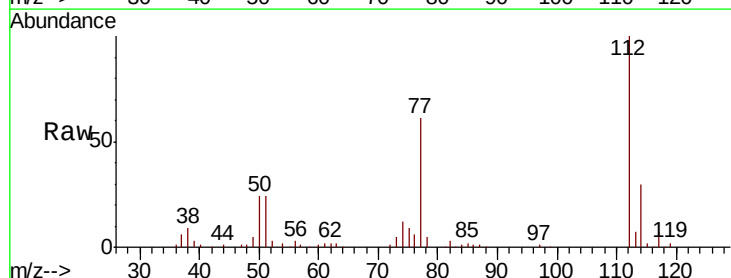
Tgt Ion: 112 Resp: 80063

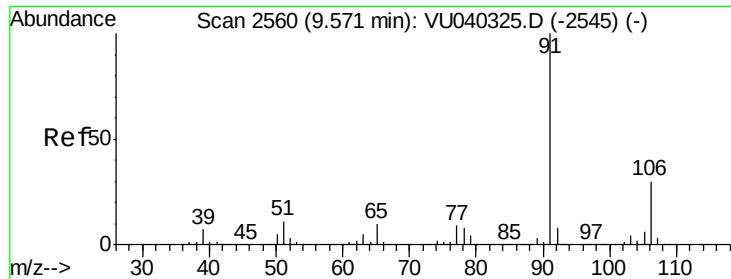
Ion Ratio Lower Upper

112 100

114 30.5 22.7 42.3

77 61.1 53.2 79.8

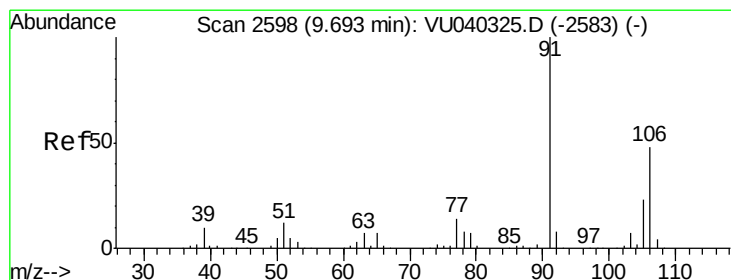
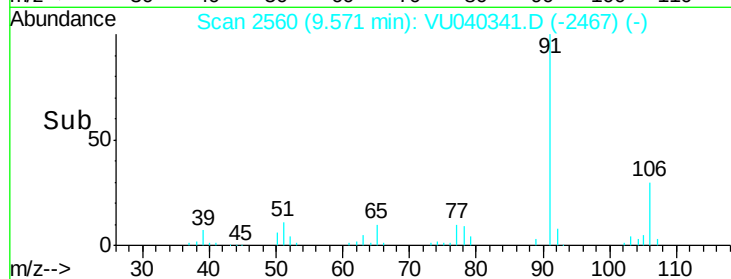
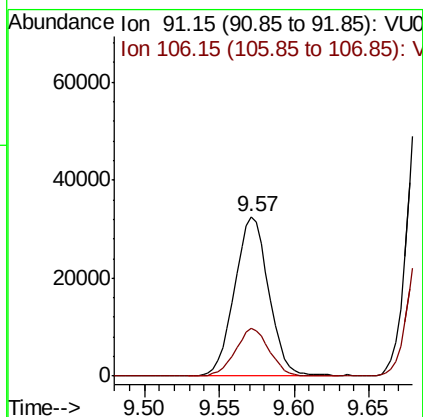
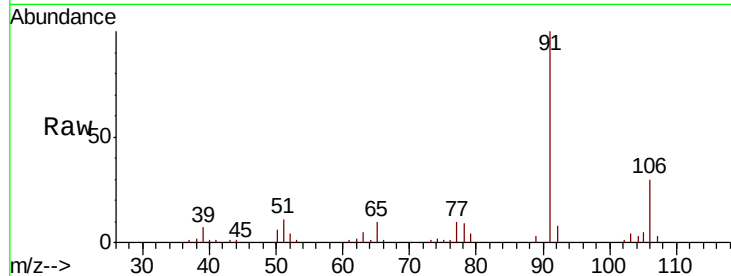




#52
Ethylbenzene
Concen: 0.962 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040341.D
Acq: 28 Sep 2020 19:06

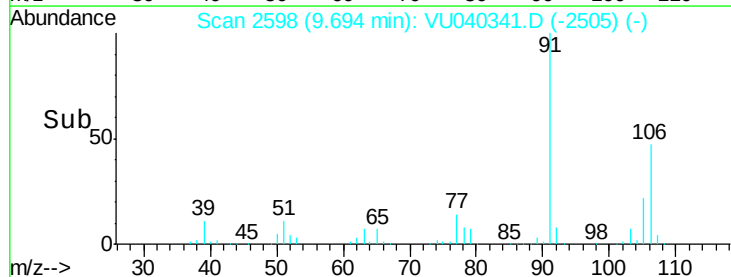
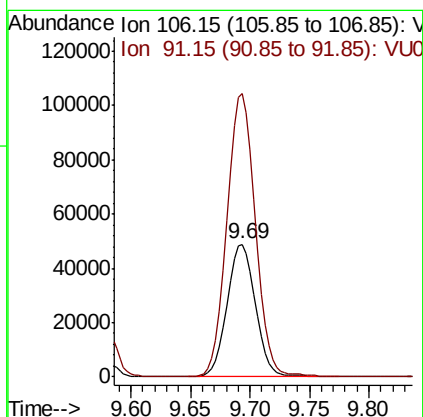
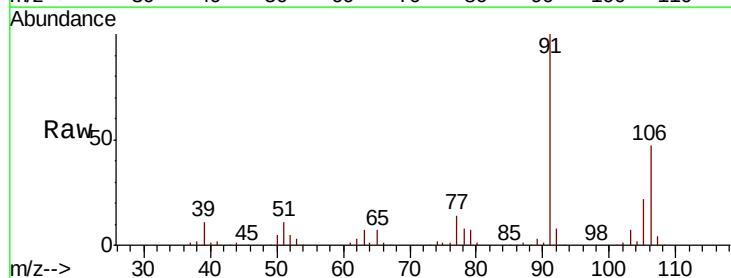
Instrument :
MSVOA_U
ClientSampleId :
BG491DL

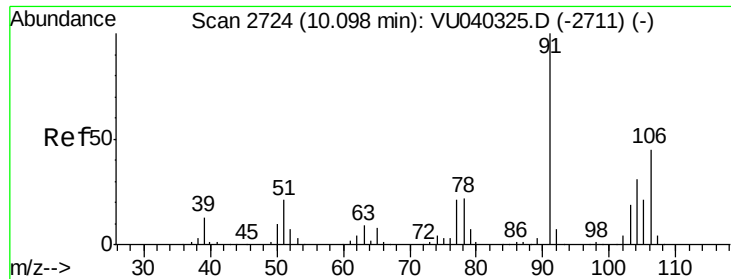
Tot Ion: 91 Resp: 51918
Ion Ratio Lower Upper
91 100
106 29.6 21.0 39.0



#53
m,p-Xylene
Concen: 4.214 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VU040341.D
Acq: 28 Sep 2020 19:06

Tgt Ion: 106 Resp: 80958
Ion Ratio Lower Upper
106 100
91 213.0 151.7 281.7

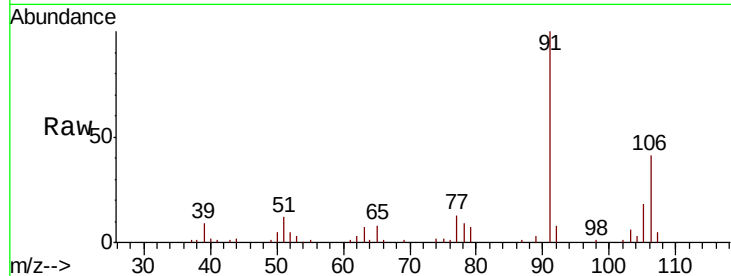




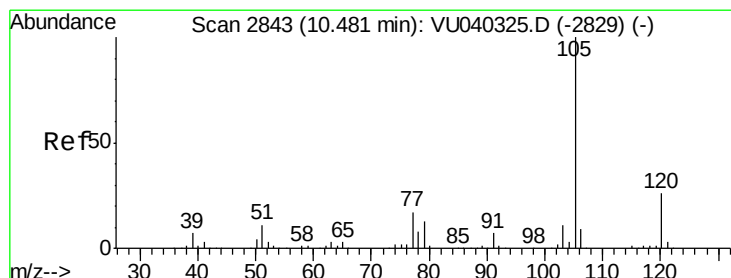
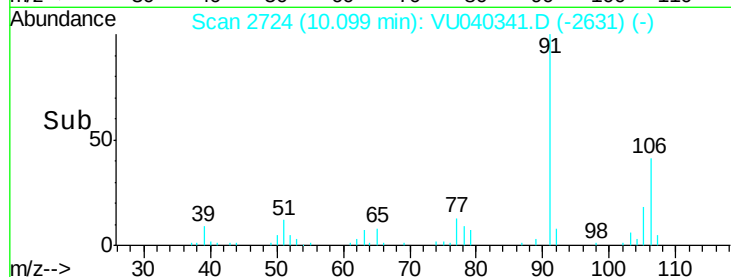
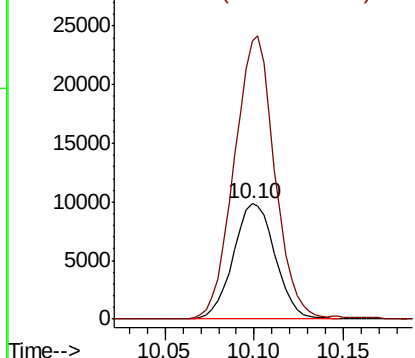
#54
o-Xylene
Concen: 0.885 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. 0.00 min
Lab File: VU040341.D
Acq: 28 Sep 2020 19:06

Instrument :
MSVOA_U
ClientSampled :
BG491DL

Tot Ion:106 Resp: 16194
Ion Ratio Lower Upper
106 100
91 241.3 160.8 298.6

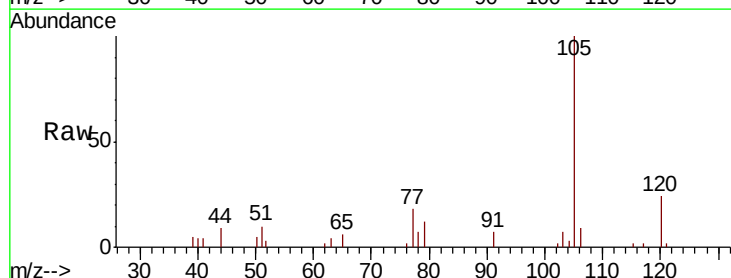


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

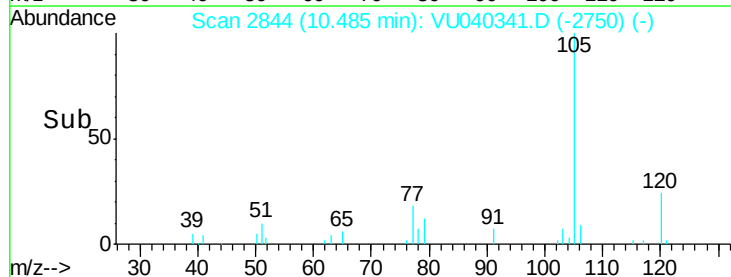
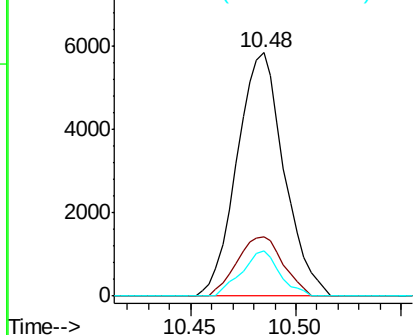


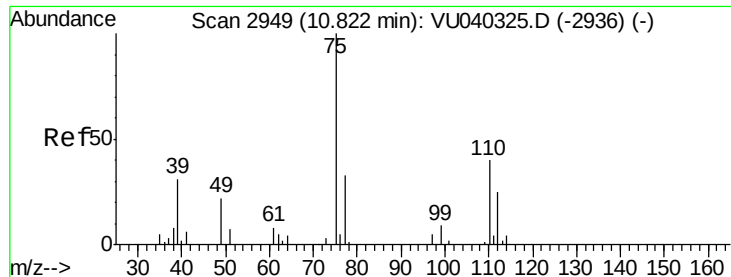
#56
Isopropylbenzene
Concen: 0.181 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040341.D
Acq: 28 Sep 2020 19:06

Tgt Ion:105 Resp: 9028
Ion Ratio Lower Upper
105 100
120 24.0 20.1 30.1
77 15.0 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: 1.057 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

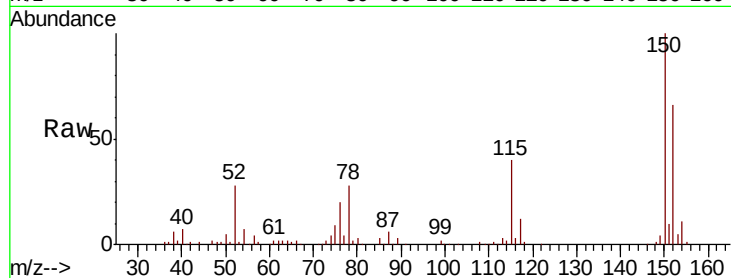
BG491DL

Tot Ion: 75 Resp: 9777

Ion Ratio Lower Upper

75 100

77 33.6 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VU040325.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040325.D (-2936) (-)

11.81

6000

5000

4000

3000

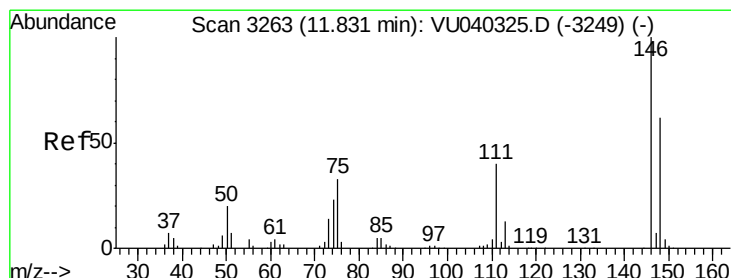
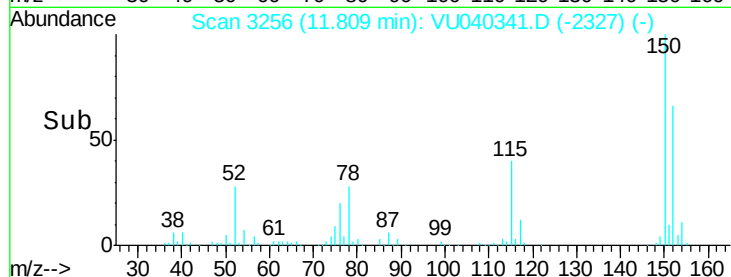
2000

1000

0

11.75 11.80 11.85

Time-->



#63

1,4-Dichlorobenzene

Concen: 0.121 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

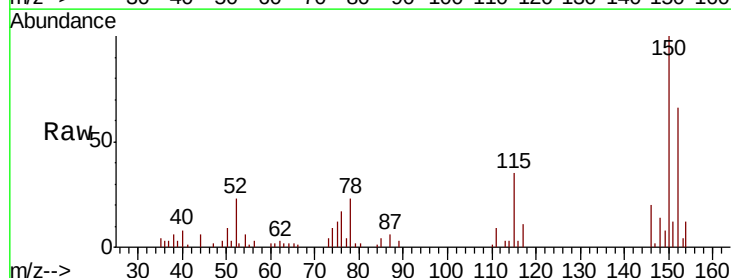
Tgt Ion: 146 Resp: 2835

Ion Ratio Lower Upper

146 100

111 44.5 30.5 56.7

148 69.0 45.4 84.4



Abundance Ion 145.95 (145.65 to 146.65): VU040325.D (-3249) (-)

Ion 111.00 (110.70 to 111.70): VU040325.D (-3249) (-)

Ion 148.00 (147.70 to 148.70): VU040325.D (-3249) (-)

11.83

2500

2000

1500

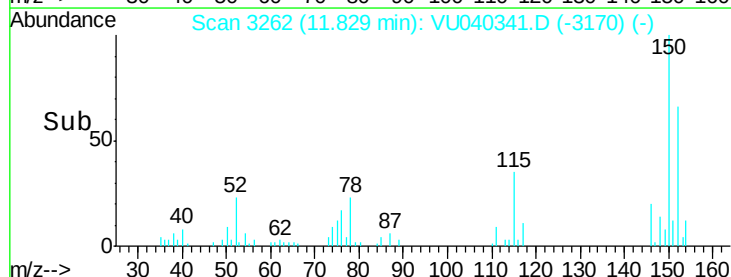
1000

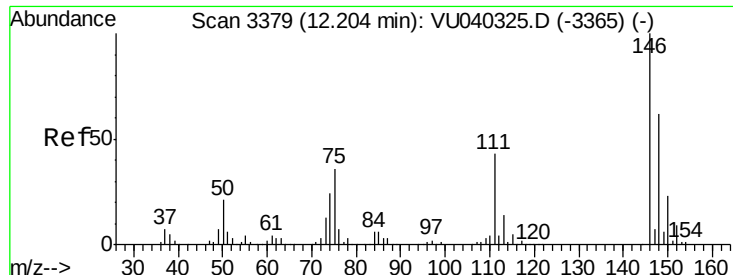
500

0

11.80 11.85

Time-->





#65

1,2-Dichlorobenzene

Concen: 0.088 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. 0.00 min

Lab File: VU040341.D

Acq: 28 Sep 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

BG491DL

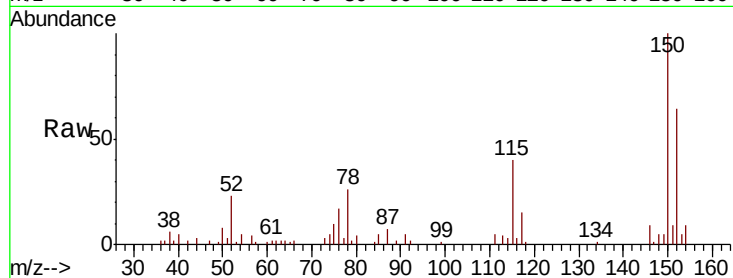
Tot Ion:146 Resp: 1977

Ion Ratio Lower Upper

146 100

111 50.3 36.5 54.7

148 58.4 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

