

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092820\
 Data File : VU040342.D
 Acq On : 28 Sep 2020 19:29
 Operator : SY/MD
 Sample : L4139-07DL 50X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG493DL

Quant Time: Sep 29 07:28:09 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	126782	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	124434	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	60804	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	35402	5.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.20%
7) Chloroethane-d5	1.92	69	33722	5.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	117.00%
11) 1,1-Dichloroethene-d2	2.58	63	60166	3.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.80%
20) 2-Butanone-d5	4.65	46	163565	59.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.16%
24) Chloroform-d	5.08	84	78800	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
26) 1,2-Dichloroethane-d4	5.72	65	50626	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
32) Benzene-d6	5.74	84	152118	5.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
36) 1,2-Dichloropropane-d6	6.70	67	51597	5.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.80%
41) Toluene-d8	7.91	98	126215	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
43) trans-1,3-Dichloropropene-	8.18	79	20101	4.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
46) 2-Hexanone-d5	8.64	63	122435	58.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.52%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	44766	5.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	52943	5.38	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	2299	0.313	ug/L	88
16) Methylene chloride	3.06	84	2184	0.170	ug/L	83
25) Chloroform	5.11	83	3678	0.165	ug/L	91
27) 1,2-Dichloroethane	5.79	62	7167	0.440	ug/L #	78
30) Cyclohexane	5.40	56	1034	0.055	ug/L #	1
33) Benzene	5.79	78	732756	16.461	ug/L	100
34) Trichloroethene	6.26	95	2431	0.204	ug/L #	9
35) Methylcyclohexane	6.77	83	1954	0.107	ug/L	93
37) 1,2-Dichloropropane	6.71	63	5936	0.492	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1441	0.081	ug/L #	71
42) Toluene	7.98	91	806494	17.592	ug/L	100
44) trans-1,3-Dichloropropene	8.19	75	762	0.046	ug/L #	76
48) 2-Hexanone	8.64	43	16317	2.262	ug/L #	71
51) Chlorobenzene	9.45	112	210953	7.412	ug/L	95
52) Ethylbenzene	9.57	91	89409	1.717	ug/L	99
53) m,p-Xylene	9.69	106	95684	5.160	ug/L	98
54) o-Xylene	10.10	106	37555	2.125	ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092820\
Data File : VU040342.D
Acq On : 28 Sep 2020 19:29
Operator : SY/MD
Sample : L4139-07DL 50X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BG493DL

Quant Time: Sep 29 07:28:09 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

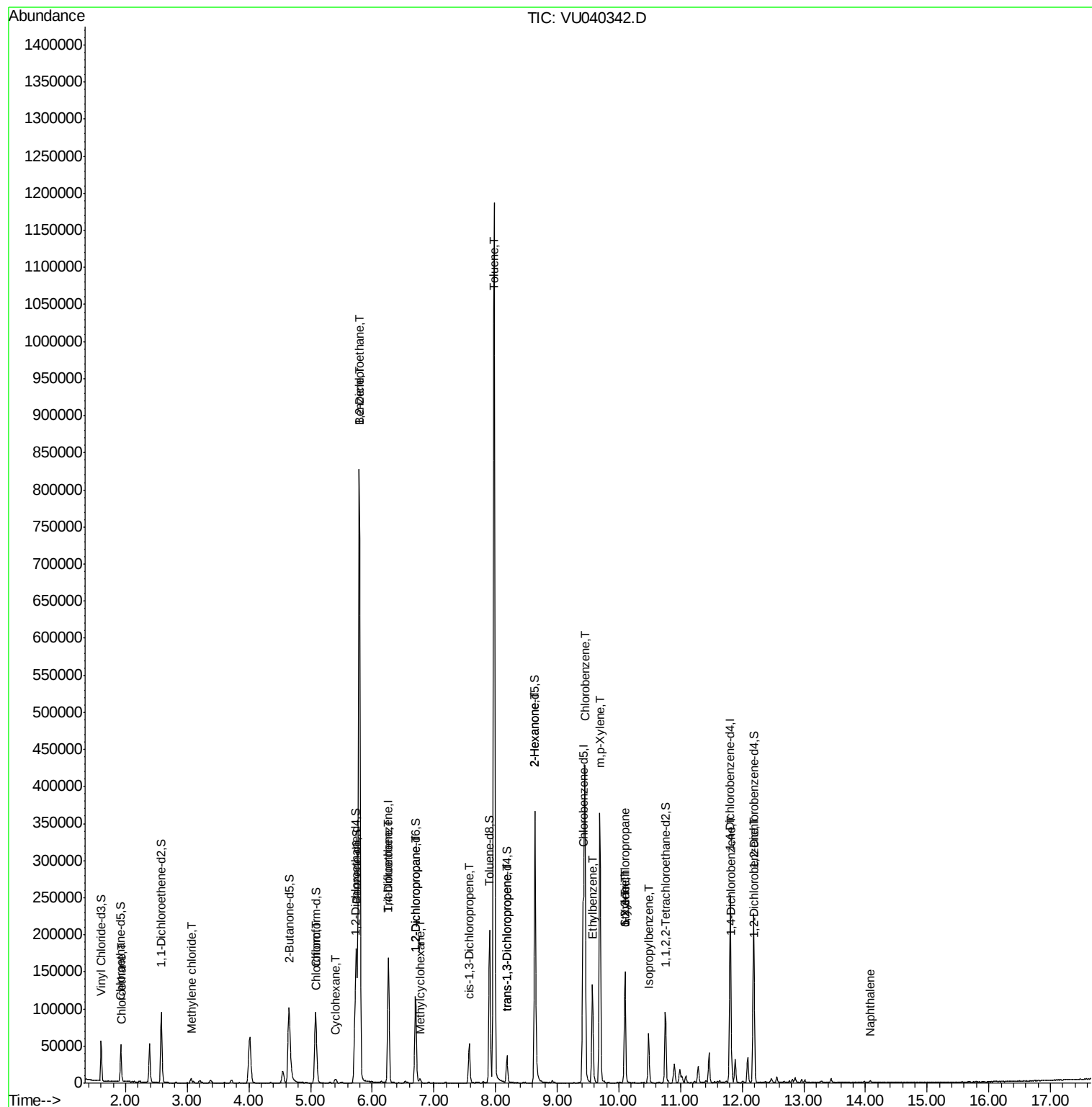
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.10	104	2498	0.081	ug/L #	1
56) Isopropylbenzene	10.48	105	41084	0.852	ug/L	98
59) 1,2,3-Trichloropropane	10.10	75	1123	0.126	ug/L #	1
63) 1,4-Dichlorobenzene	11.83	146	4878	0.217	ug/L	89
65) 1,2-Dichlorobenzene	12.21	146	3123	0.145	ug/L	90
69) Naphthalene	14.08	128	1985	0.071	ug/L #	84

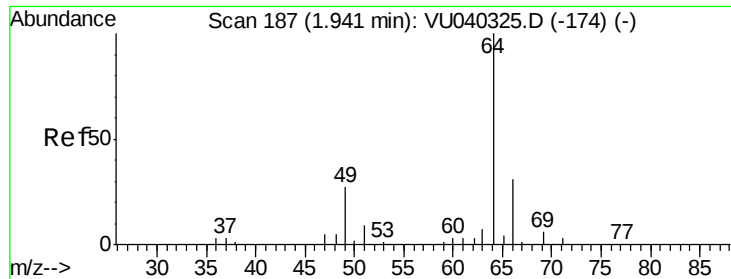
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092820\
Data File : VU040342.D
Acq On : 28 Sep 2020 19:29
Operator : SY/MD
Sample : L4139-07DL 50X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BG493DL

Quant Time: Sep 29 07:28:09 2020
Quant Method : Z:\V0ASRV\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

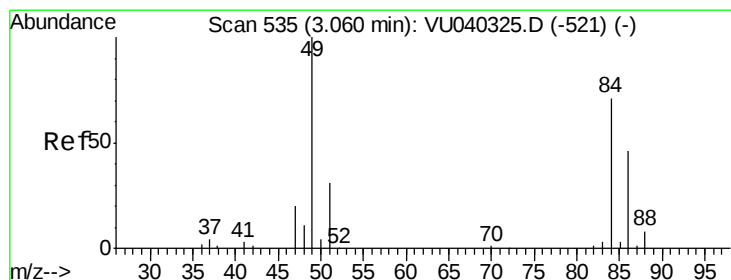
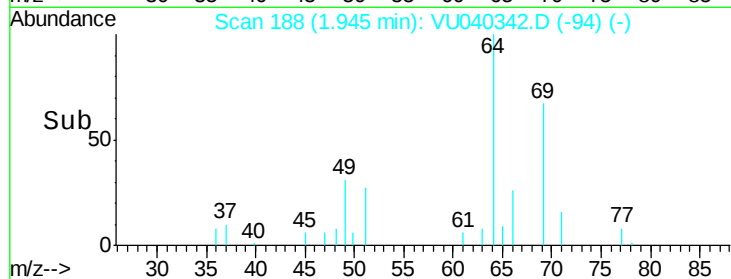
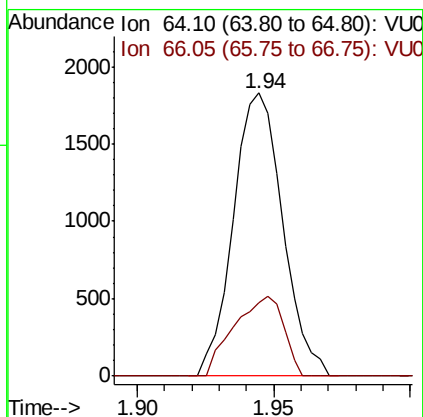
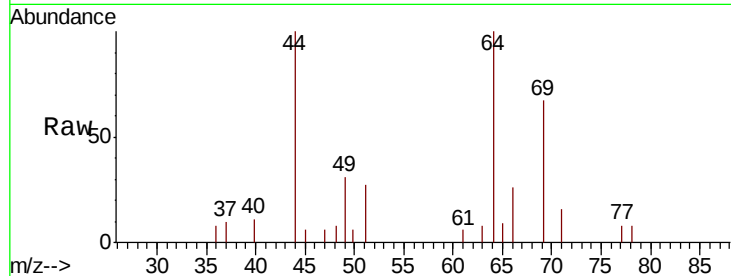




#8
Chloroethane
Concen: 0.313 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

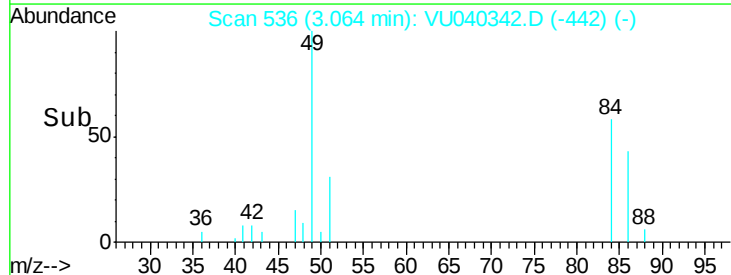
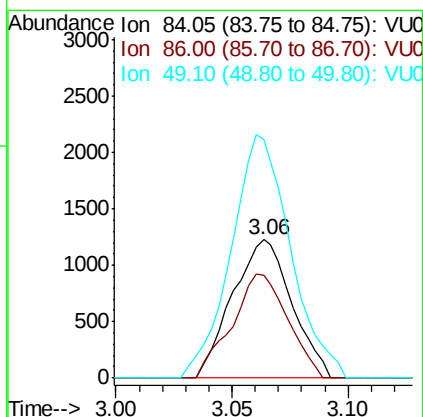
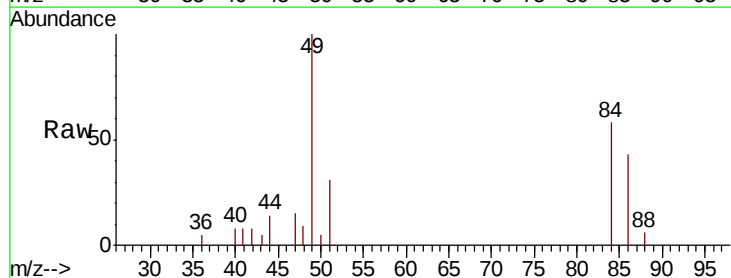
Instrument :
MSVOA_U
ClientSampled :
BG493DL

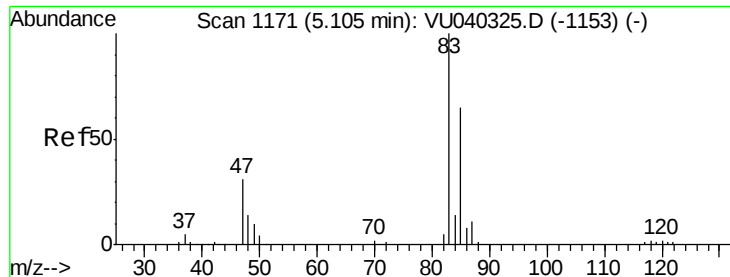
Tot Ion: 64 Resp: 2299
Ion Ratio Lower Upper
64 100
66 25.8 22.7 42.1



#16
Methylene chloride
Concen: 0.170 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.00 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

Tgt Ion: 84 Resp: 2184
Ion Ratio Lower Upper
84 100
86 74.6 45.2 84.0
49 172.1 104.0 193.2

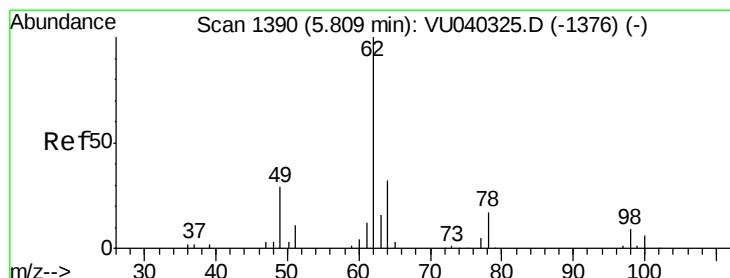
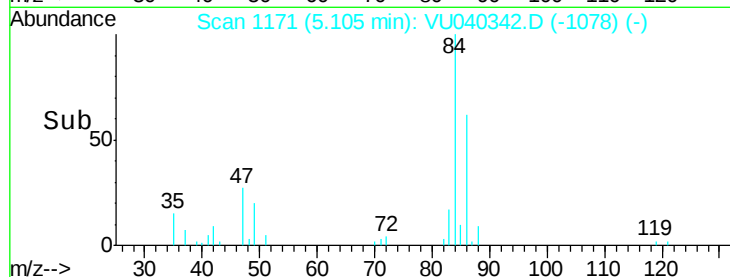
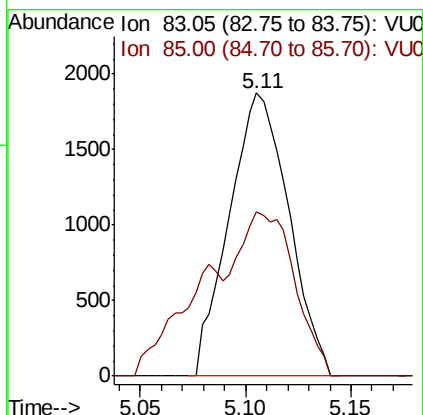
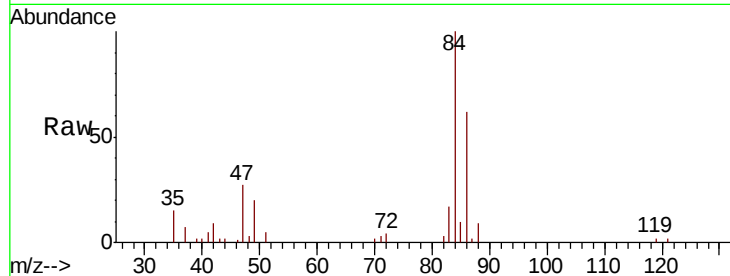




#25
Chloroform
Concen: 0.165 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

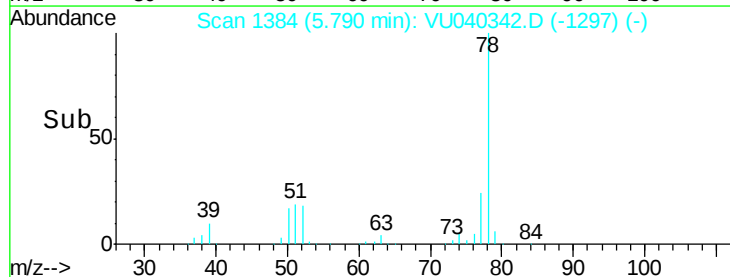
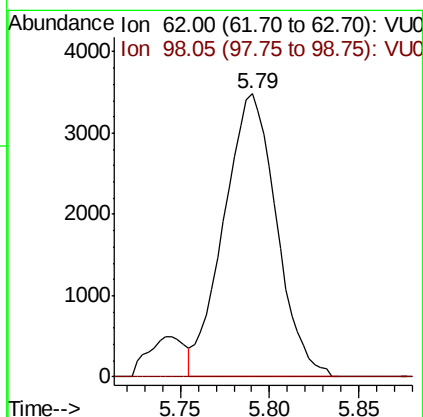
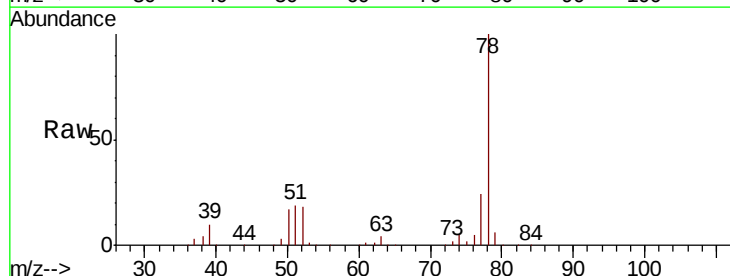
Instrument :
MSVOA_U
ClientSampleId :
BG493DL

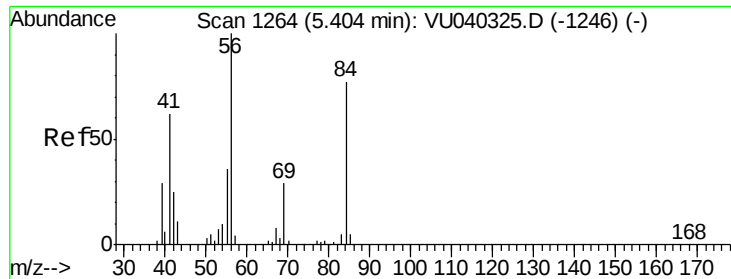
Tot Ion: 83 Resp: 3678
Ion Ratio Lower Upper
83 100
85 57.9 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.440 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.02 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

Tgt Ion: 62 Resp: 7167
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#

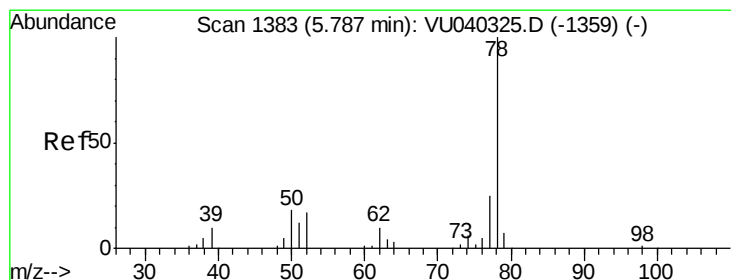
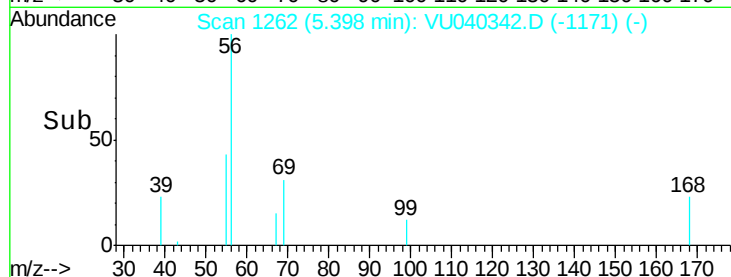
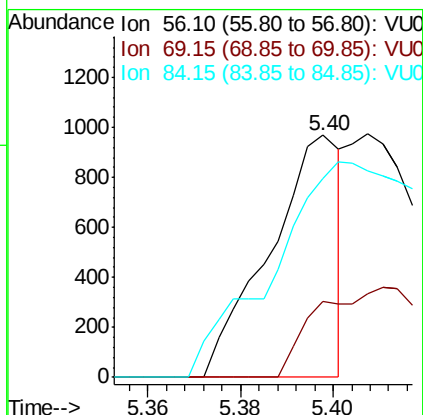
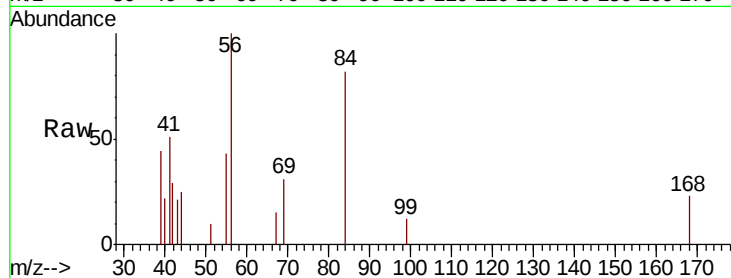




#30
Cyclohexane
Concen: 0.055 ug/L
RT: 5.40 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

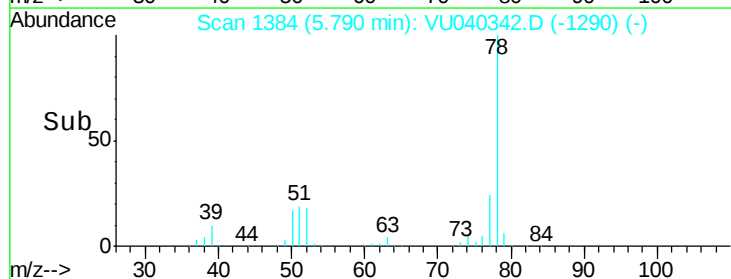
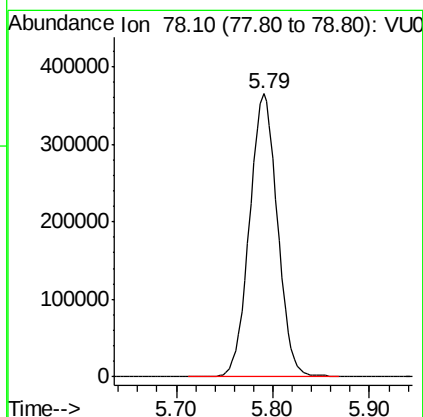
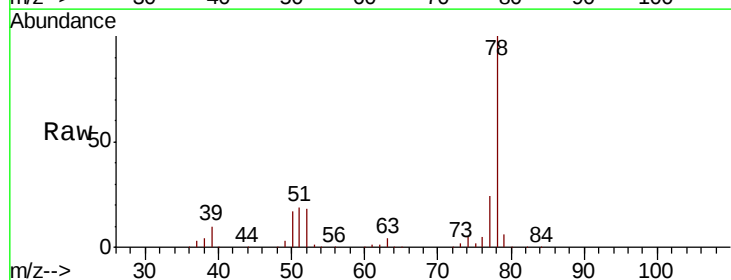
Instrument :
MSVOA_U
ClientSampleId :
BG493DL

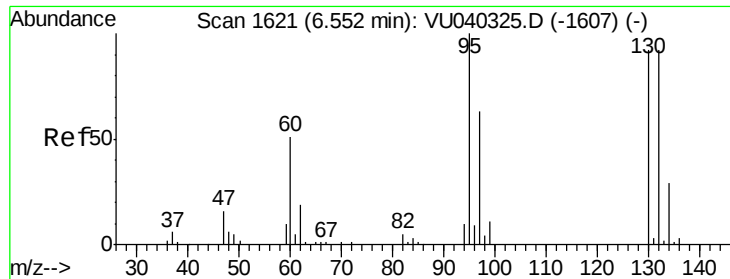
Tot Ion: 56 Resp: 1034
Ion Ratio Lower Upper
56 100
69 59.1 24.1 36.1#
84 202.7 65.0 97.4#



#33
Benzene
Concen: 16.461 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

Tgt Ion: 78 Resp: 732756





#34

Trichloroethene

Concen: 0.204 ug/L

RT: 6.26 min Scan# 1531

Delta R.T. -0.29 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleId :

BG493DL

Tot Ion: 95 Resp: 2431

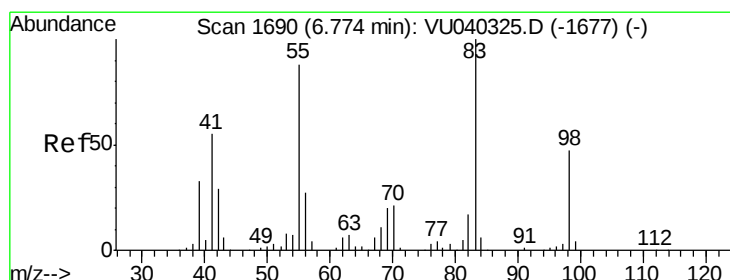
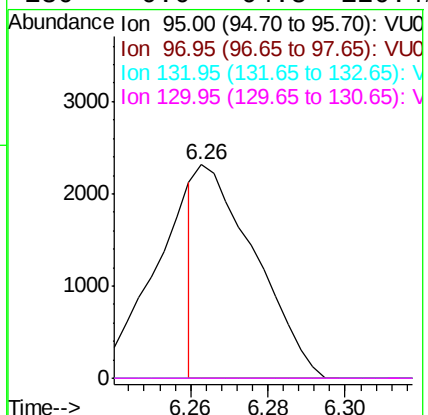
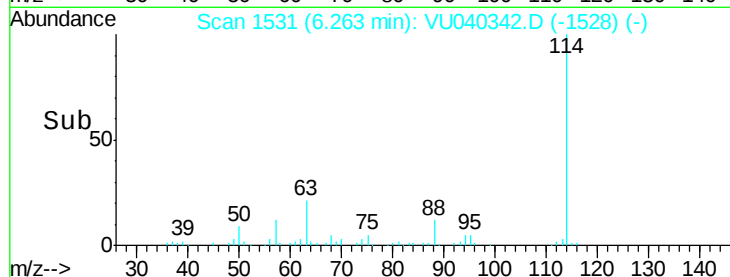
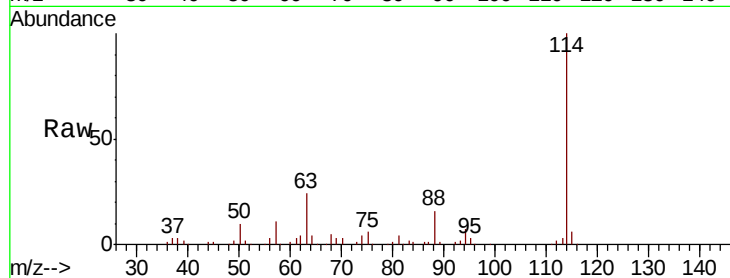
Ion Ratio Lower Upper

95 100

97 0.0 43.3 80.5#

132 0.0 59.4 110.4#

130 0.0 64.8 120.4#



#35

Methylcyclohexane

Concen: 0.107 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

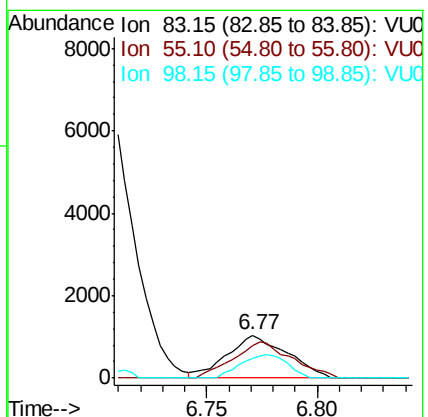
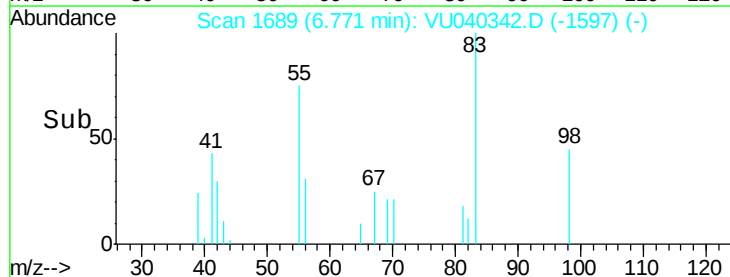
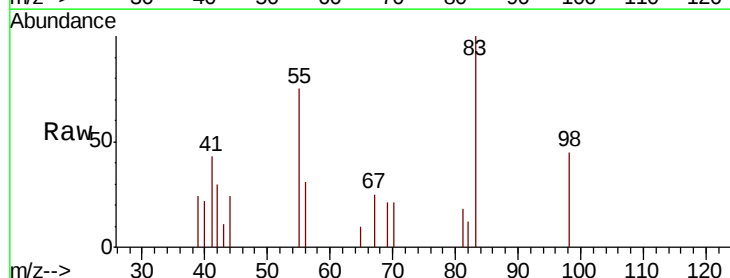
Tgt Ion: 83 Resp: 1954

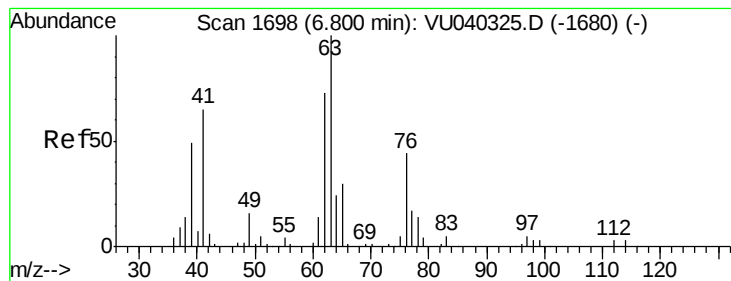
Ion Ratio Lower Upper

83 100

55 82.7 70.5 105.7

98 42.0 37.8 56.6





#37

1,2-Dichloropropane

Concen: 0.492 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.09 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleID :

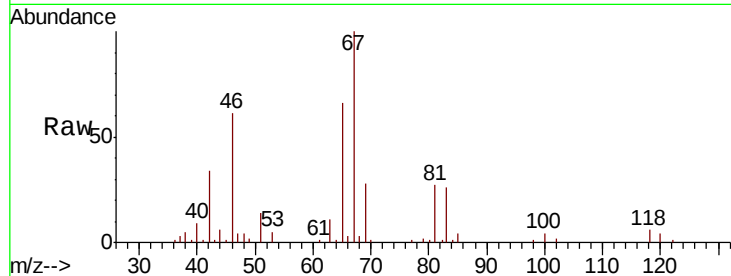
BG493DL

Tot Ion: 63 Resp: 5936

Ion Ratio Lower Upper

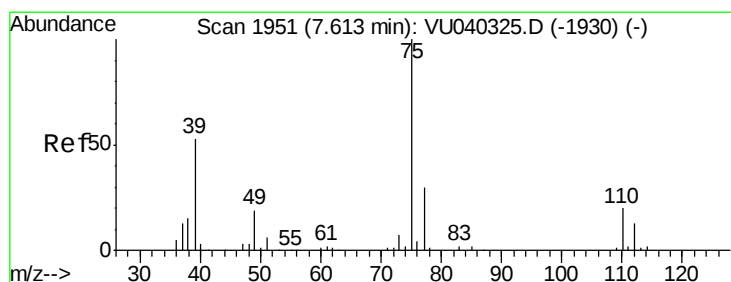
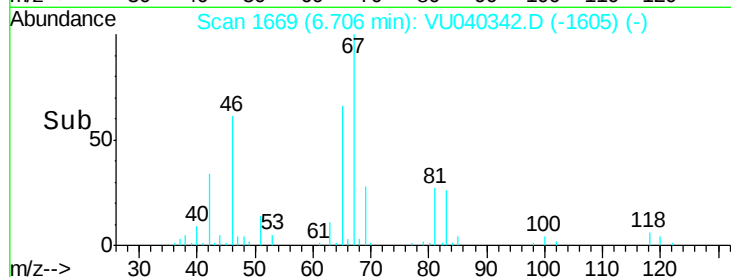
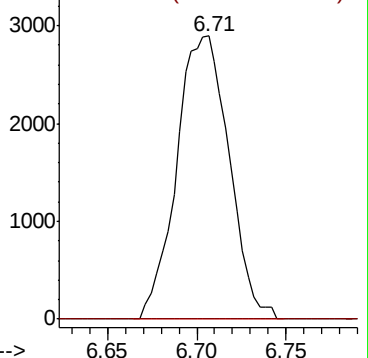
63 100

112 0.0 3.2 4.8#



Abundance Ion 63.10 (62.80 to 63.80): VU040325.D (-1680) (-)

Ion 112.10 (111.80 to 112.80): VU040325.D (-1680) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU040342.D

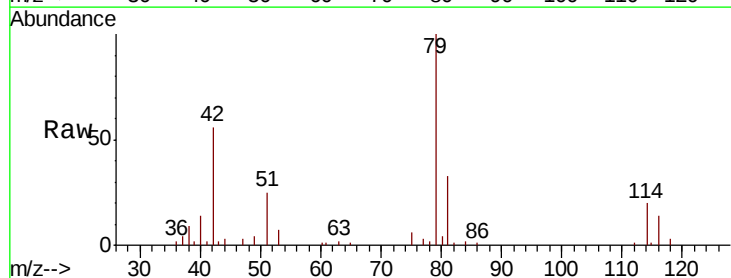
Acq: 28 Sep 2020 19:29

Tgt Ion: 75 Resp: 1441

Ion Ratio Lower Upper

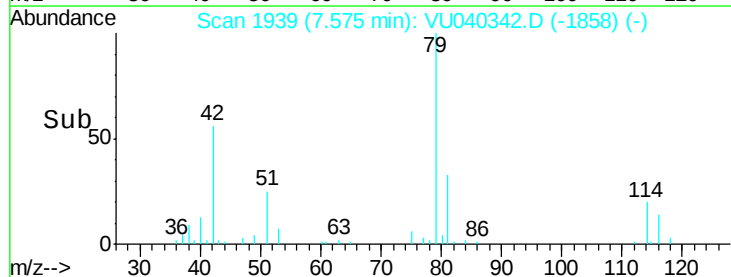
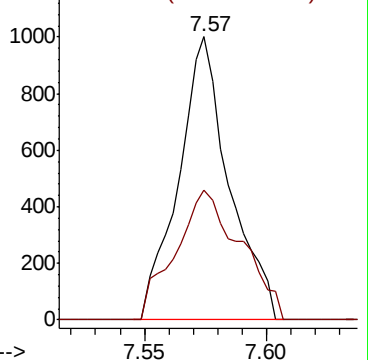
75 100

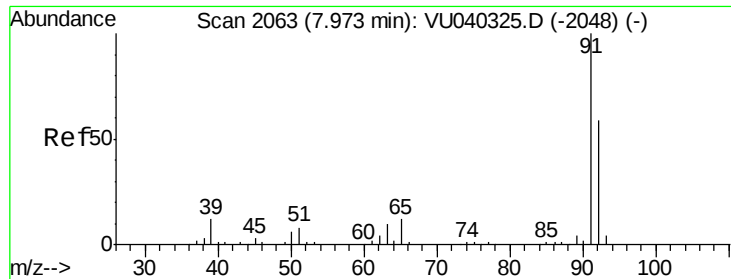
77 46.0 21.1 39.3#



Abundance Ion 75.05 (74.75 to 75.75): VU040325.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU040325.D (-1930) (-)





#42

Toluene

Concen: 17.592 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleId :

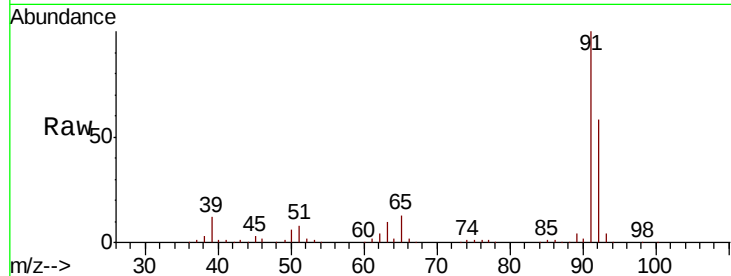
BG493DL

Tot Ion: 91 Resp: 806494

Ion Ratio Lower Upper

91 100

92 58.2 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040325.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU040325.D (-2048) (-)

7.98

500000

400000

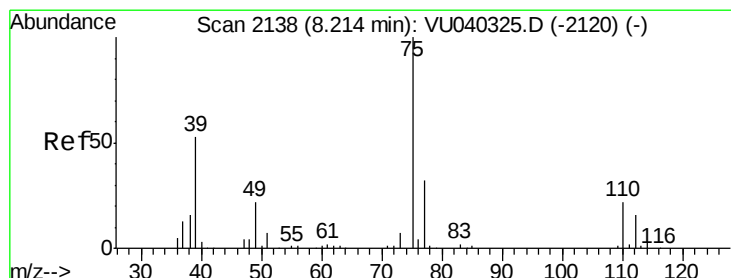
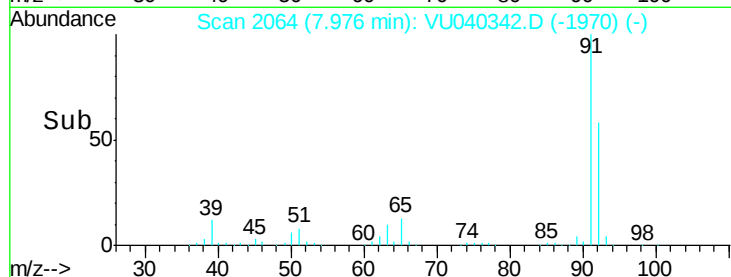
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.046 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040342.D

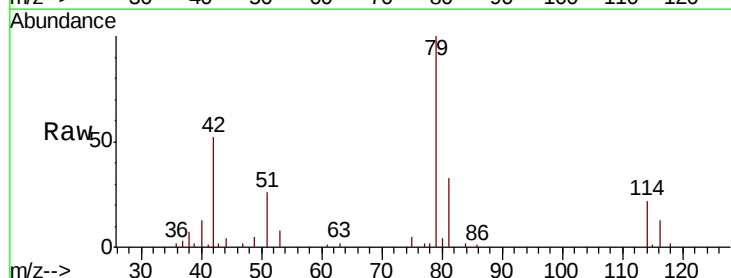
Acq: 28 Sep 2020 19:29

Tgt Ion: 75 Resp: 762

Ion Ratio Lower Upper

75 100

77 48.1 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU040325.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU040325.D (-2120) (-)

8.19

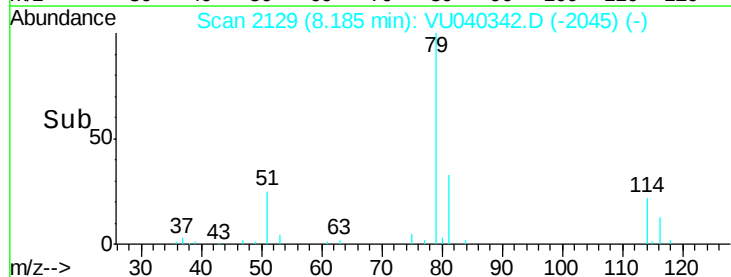
600

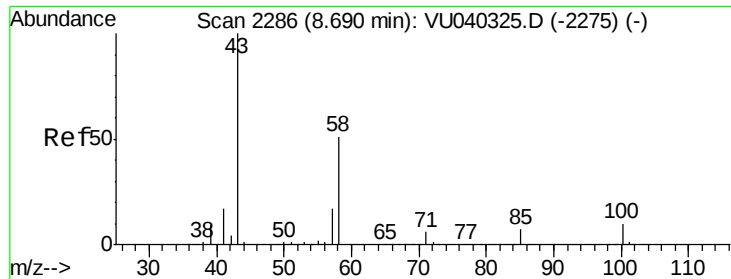
400

200

0

Time-->

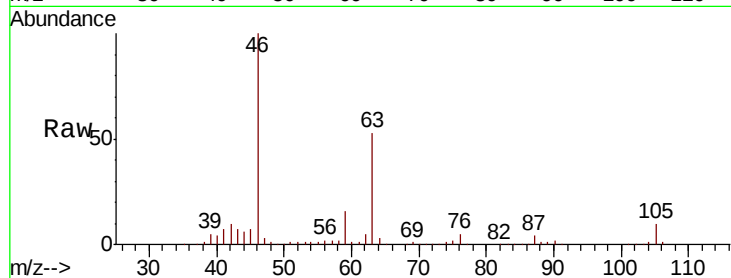




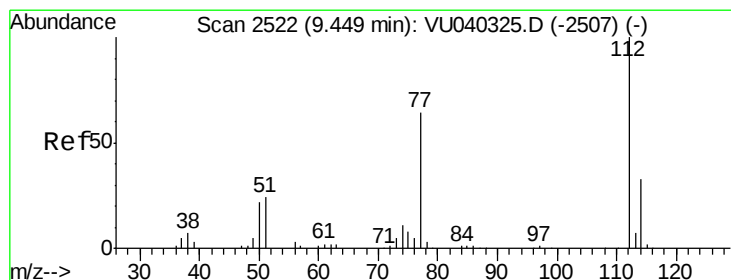
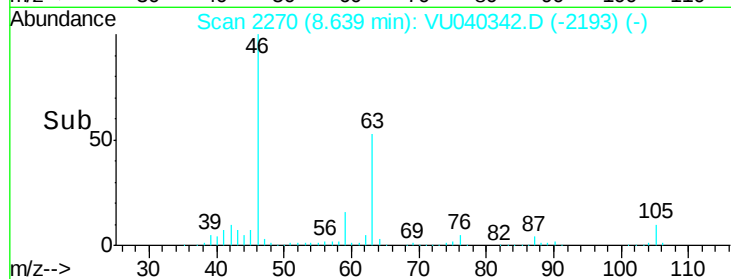
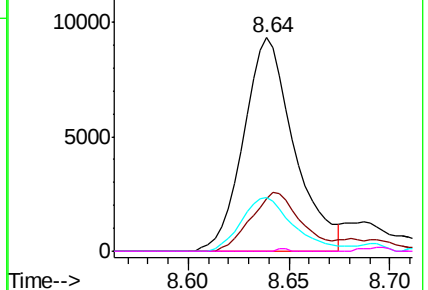
#48
2-Hexanone
Concen: 2.262 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

Instrument :
MSVOA_U
ClientSampleId :
BG493DL

Tot Ion: 43 Resp: 16317
Ion Ratio Lower Upper
43 100
58 27.2 39.6 59.4#
57 26.4 14.3 21.5#
100 0.3 8.0 12.0#

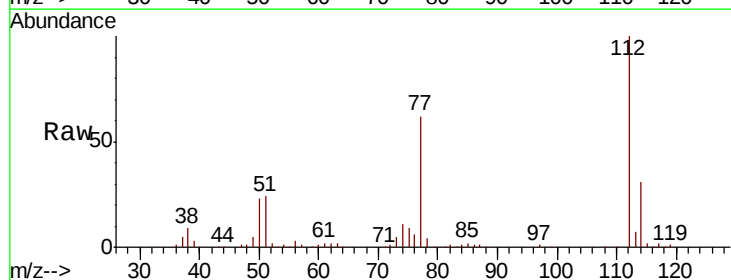


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

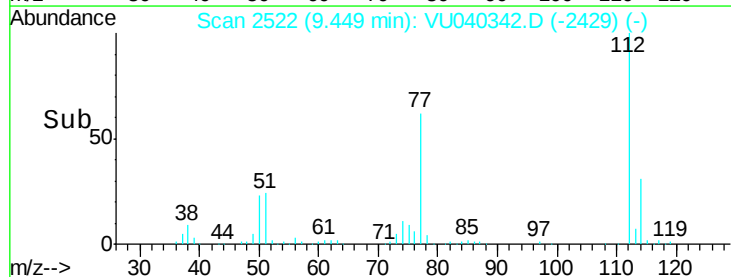
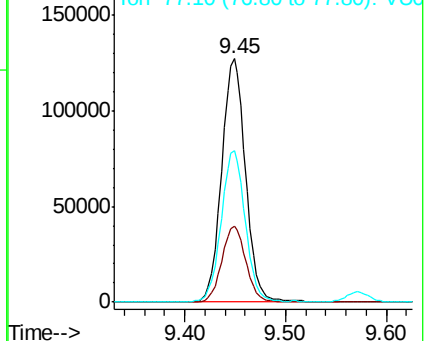


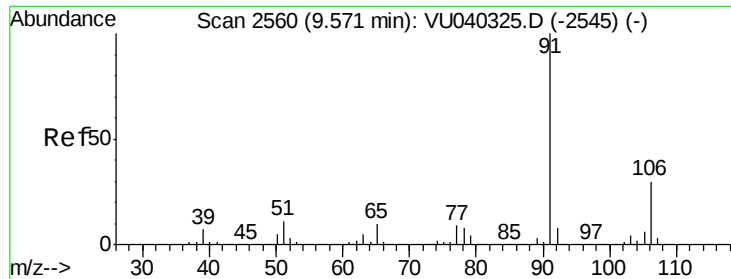
#51
Chlorobenzene
Concen: 7.412 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040342.D
Acq: 28 Sep 2020 19:29

Tgt Ion: 112 Resp: 210953
Ion Ratio Lower Upper
112 100
114 31.1 22.7 42.3
77 62.0 53.2 79.8



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): VU0





#52

Ethylbenzene

Concen: 1.717 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleId :

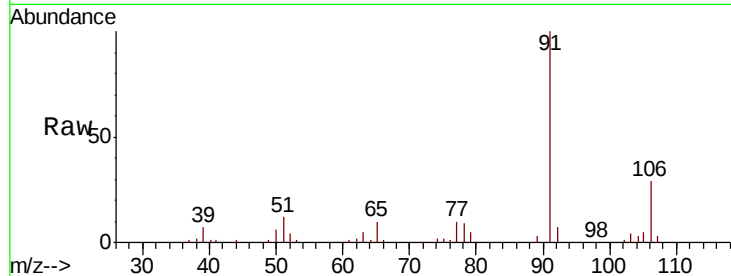
BG493DL

Tot Ion: 91 Resp: 89409

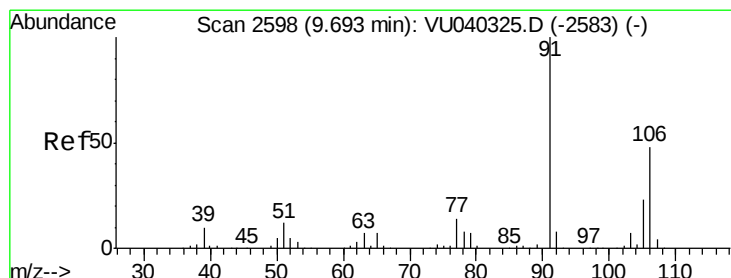
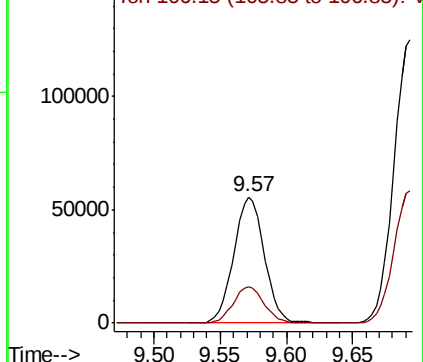
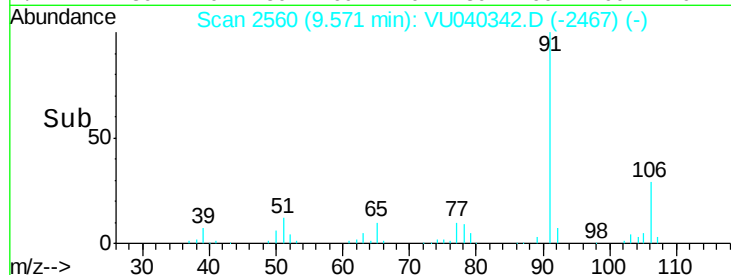
Ion Ratio Lower Upper

91 100

106 29.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040342.D (-2467) (-)



#53

m,p-Xylene

Concen: 5.160 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040342.D

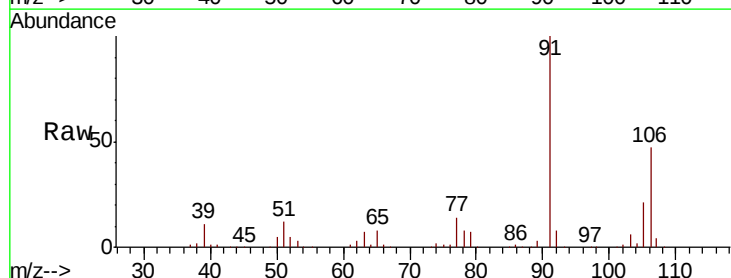
Acq: 28 Sep 2020 19:29

Tgt Ion: 106 Resp: 95684

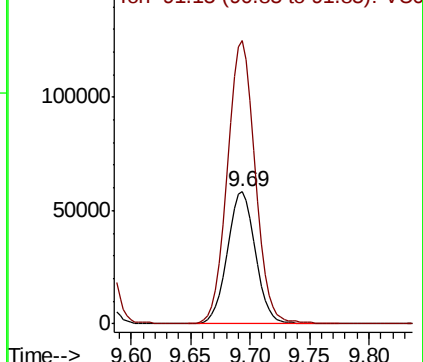
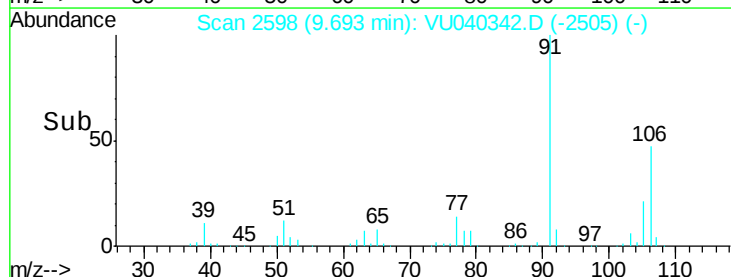
Ion Ratio Lower Upper

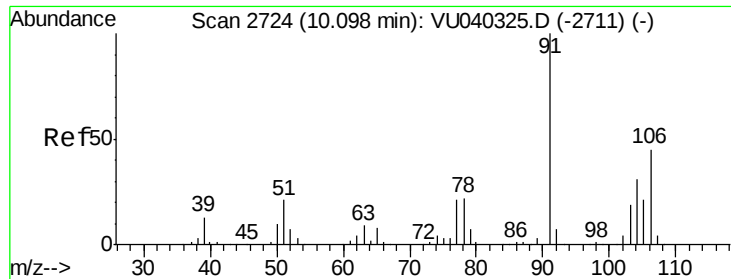
106 100

91 214.0 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040342.D (-2505) (-)





#54

o-Xylene

Concen: 2.125 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleID :

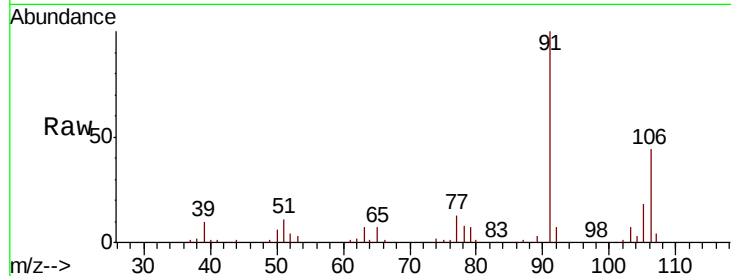
BG493DL

Tot Ion:106 Resp: 37555

Ion Ratio Lower Upper

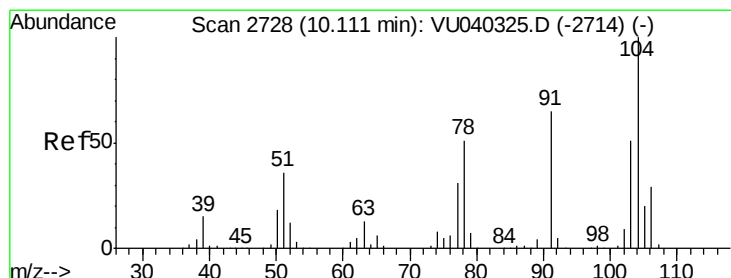
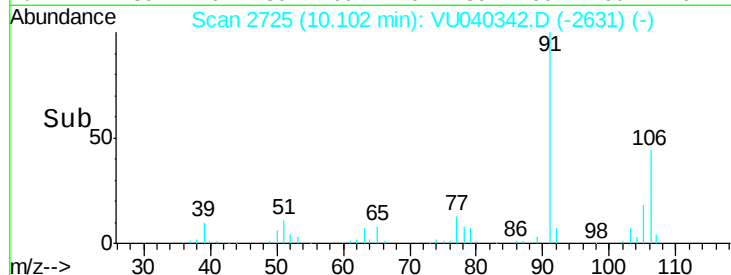
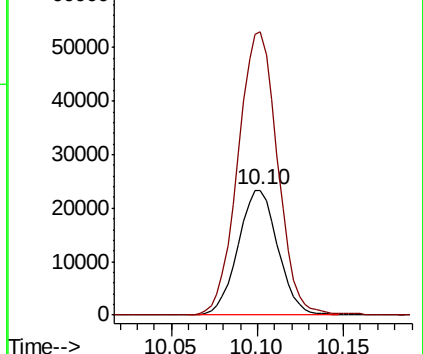
106 100

91 226.4 160.8 298.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.081 ug/L

RT: 10.10 min Scan# 2723

Delta R.T. -0.02 min

Lab File: VU040342.D

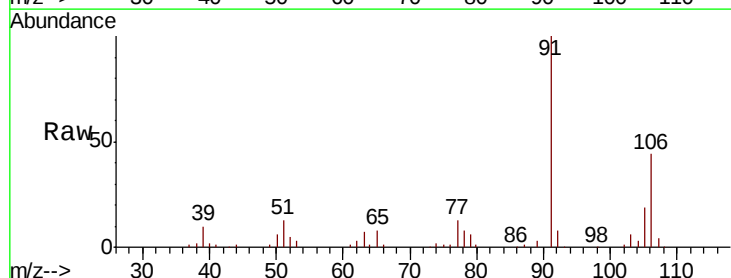
Acq: 28 Sep 2020 19:29

Tgt Ion:104 Resp: 2498

Ion Ratio Lower Upper

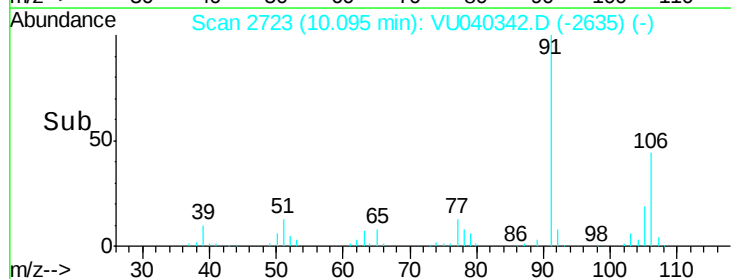
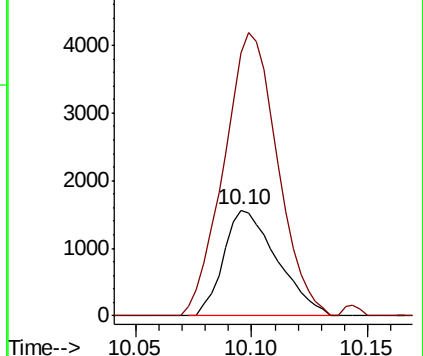
104 100

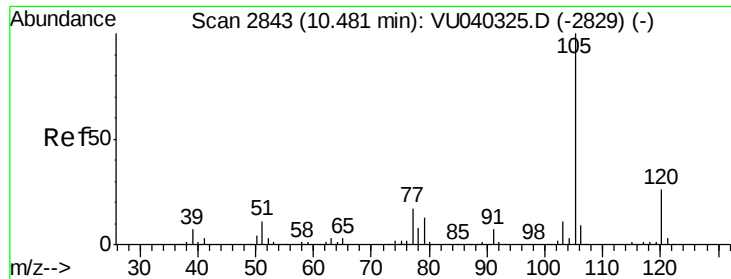
78 247.9 36.8 68.3#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.852 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleId :

BG493DL

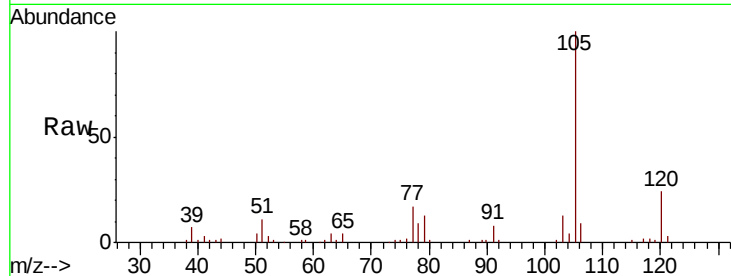
Tot Ion:105 Resp: 41084

Ion Ratio Lower Upper

105 100

120 24.2 20.1 30.1

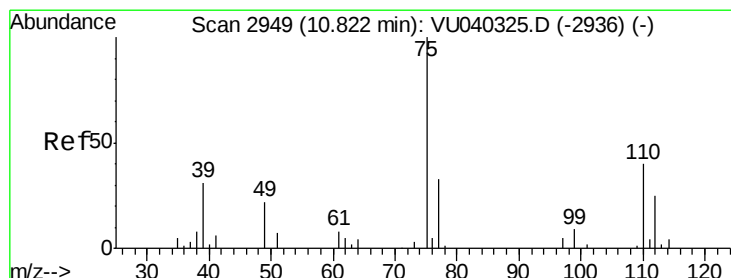
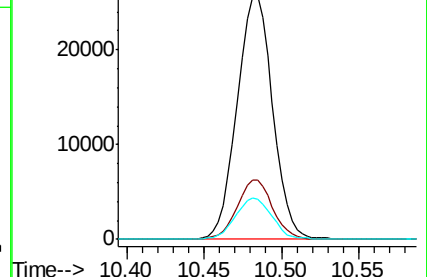
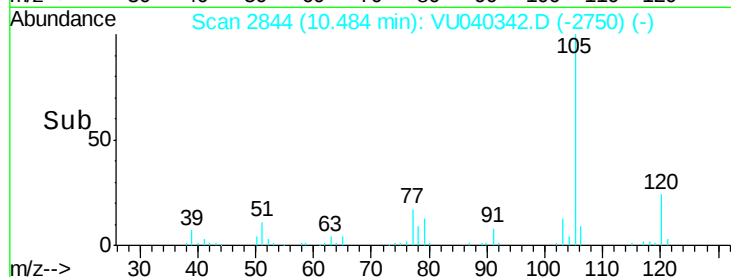
77 17.3 14.4 21.6



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): V



#59

1,2,3-Trichloropropane

Concen: 0.126 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. -0.72 min

Lab File: VU040342.D

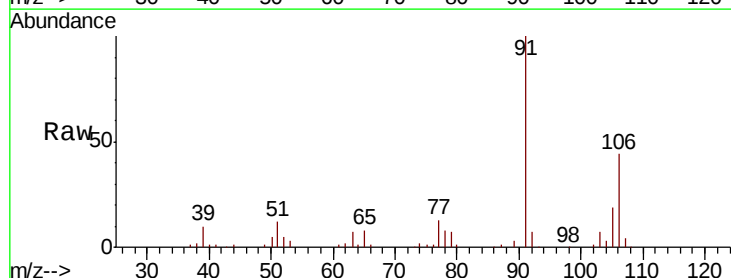
Acq: 28 Sep 2020 19:29

Tgt Ion: 75 Resp: 1123

Ion Ratio Lower Upper

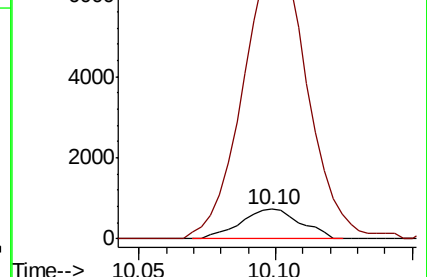
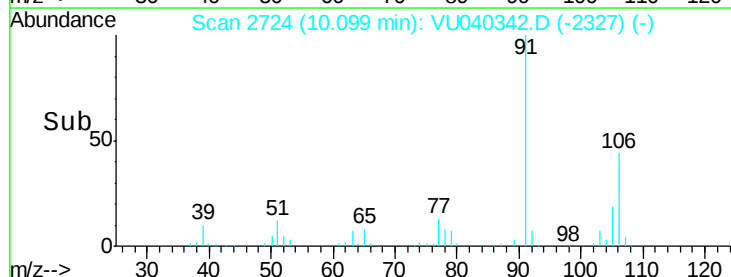
75 100

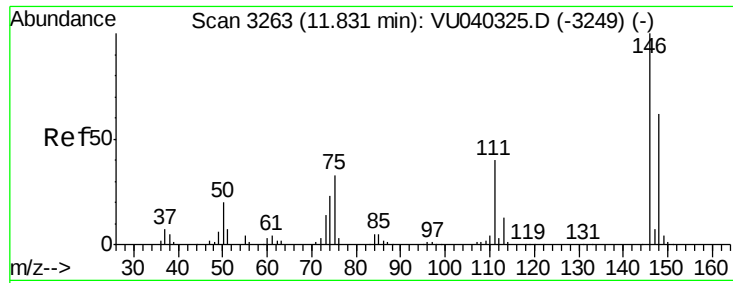
77 1017.8 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#63

1,4-Dichlorobenzene

Concen: 0.217 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleId :

BG493DL

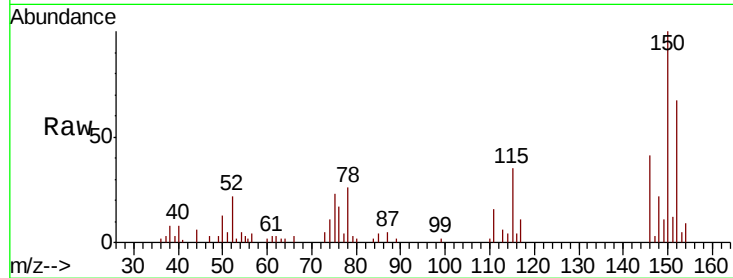
Tot Ion:146 Resp: 4878

Ion Ratio Lower Upper

146 100

111 38.7 30.5 56.7

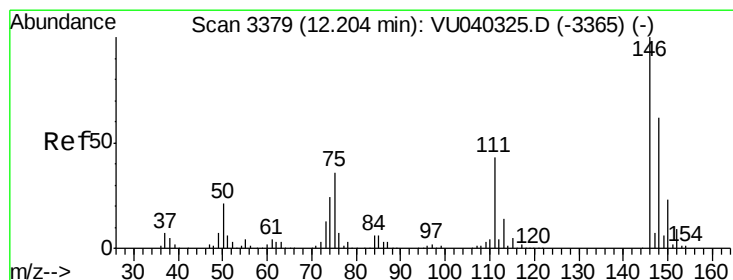
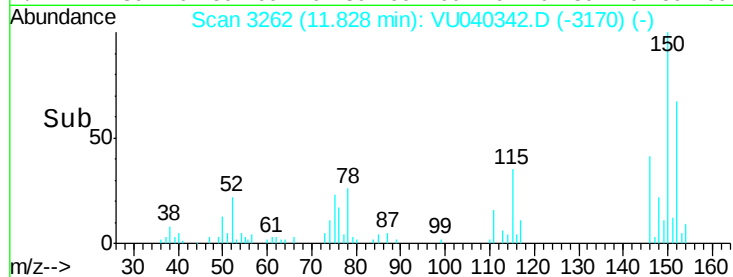
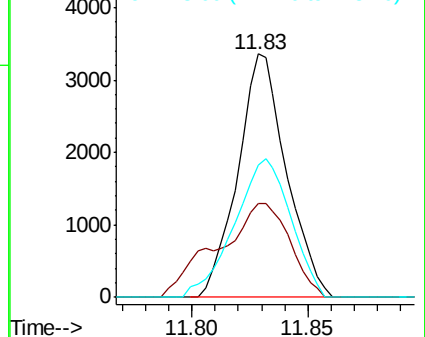
148 54.2 45.4 84.4



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: 0.145 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

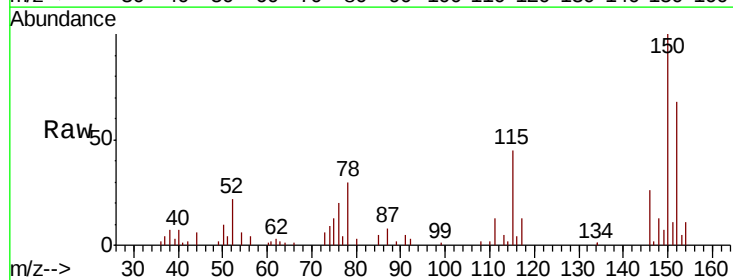
Tgt Ion:146 Resp: 3123

Ion Ratio Lower Upper

146 100

111 48.9 36.5 54.7

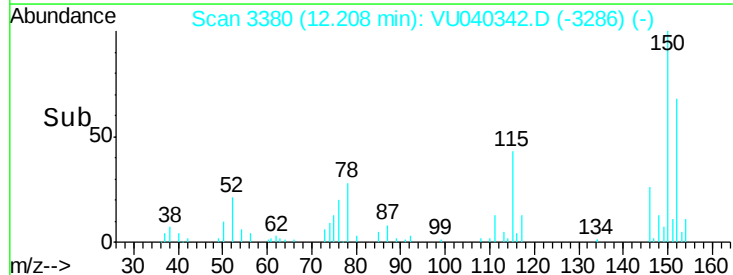
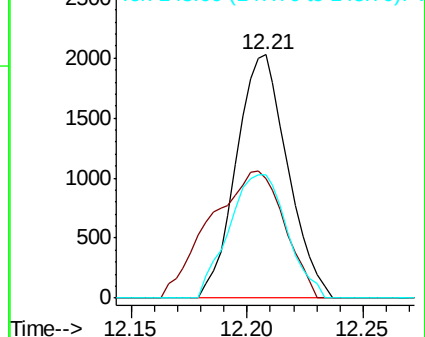
148 50.4 48.6 72.8

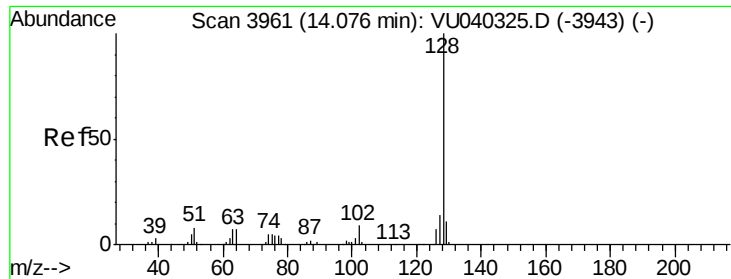


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 0.071 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU040342.D

Acq: 28 Sep 2020 19:29

Instrument :

MSVOA_U

ClientSampleId :

BG493DL

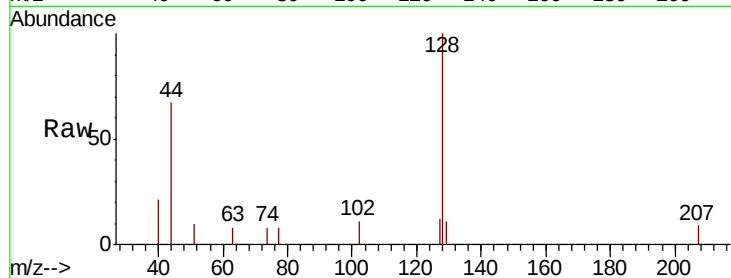
Tot Ion:128 Resp: 1985

Ion Ratio Lower Upper

128 100

129 4.5 8.7 13.1#

127 7.1 10.7 16.1#



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

