

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110420\
 Data File : VU041093.D
 Acq On : 04 Nov 2020 10:27
 Operator : SY/MD
 Sample : VU1104WBL01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 05 00:50:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 05 00:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	47752	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	49491	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	21092	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	16891	4.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.20%
7) Chloroethane-d5	1.93	69	13481	4.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.40%
11) 1,1-Dichloroethene-d2	2.58	63	23910	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	4.65	46	82248	62.26	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	124.52%
24) Chloroform-d	5.08	84	32839	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
26) 1,2-Dichloroethane-d4	5.72	65	22725	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.74	84	59422	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
36) 1,2-Dichloropropane-d6	6.70	67	21407	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.91	98	46879	3.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.20%
43) trans-1,3-Dichloropropene-	8.19	79	8513	4.56	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.20%
46) 2-Hexanone-d5	8.64	63	55442	55.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.26%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	21293	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	18893	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	218	0.048 ug/L #	73
5) Vinyl chloride	1.61	62	240	0.054 ug/L #	1
8) Chloroethane	1.95	64	518	0.182 ug/L #	43
9) Trichlorofluoromethane	2.15	101	277	0.045 ug/L #	53
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	254	0.071 ug/L #	22
12) 1,1-Dichloroethene	2.59	96	236	0.070 ug/L #	1
14) Carbon disulfide	2.81	76	685	0.061 ug/L #	74
16) Methylene chloride	3.05	84	546	0.139 ug/L	83
25) Chloroform	5.11	83	1034	0.150 ug/L	82
27) 1,2-Dichloroethane	5.81	62	262	0.051 ug/L #	74
33) Benzene	5.79	78	628	0.042 ug/L	100
35) Methylcyclohexane	6.70	83	5139	0.915 ug/L #	17
37) 1,2-Dichloropropane	6.70	63	2489	0.622 ug/L #	86
38) Bromodichloromethane	7.12	83	205	0.039 ug/L #	26
42) Toluene	7.97	91	742	0.049 ug/L	88
47) Tetrachloroethene	8.56	164	152	0.055 ug/L #	87
48) 2-Hexanone	8.69	43	1701	0.708 ug/L #	88

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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

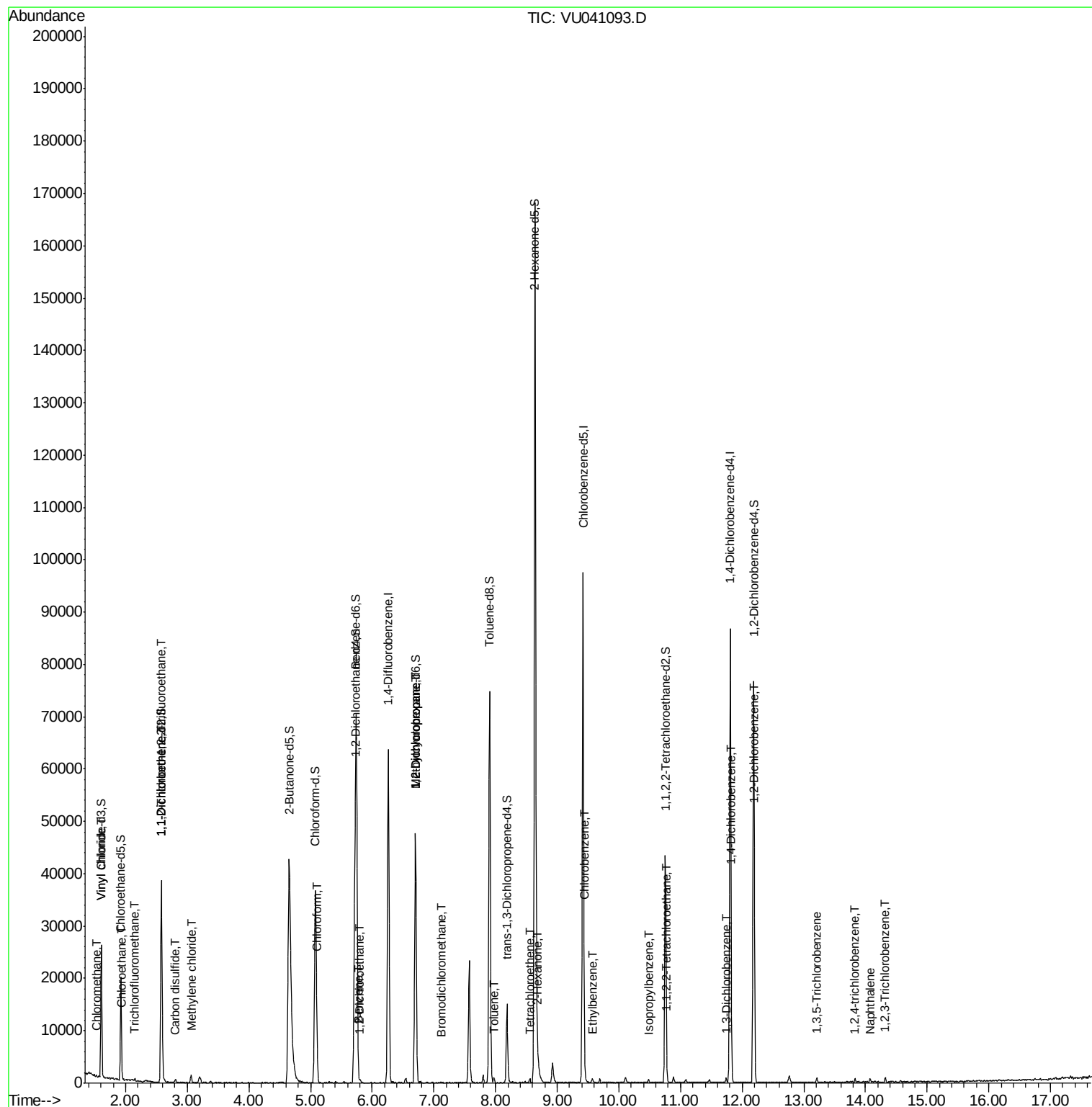
51) Chlorobenzene	9.45	112	479	0.050	ug/L #	69
52) Ethylbenzene	9.57	91	857	0.054	ug/L	96
56) Isopropylbenzene	10.48	105	655	0.045	ug/L #	61
58) 1,1,2,2-Tetrachloroethane	10.79	83	279	0.071	ug/L #	26
62) 1,3-Dichlorobenzene	11.74	146	402	0.066	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	535	0.085	ug/L	91
65) 1,2-Dichlorobenzene	12.21	146	477	0.079	ug/L	96
67) 1,3,5-Trichlorobenzene	13.21	180	431	0.101	ug/L #	77
68) 1,2,4-trichlorobenzene	13.83	180	314	0.089	ug/L #	63
69) Naphthalene	14.07	128	925	0.147	ug/L #	69
70) 1,2,3-Trichlorobenzene	14.32	180	435	0.134	ug/L #	90

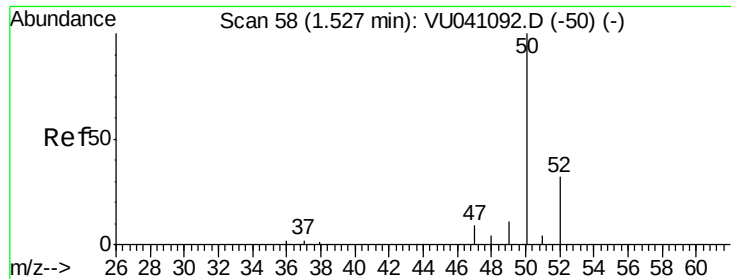
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.048 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

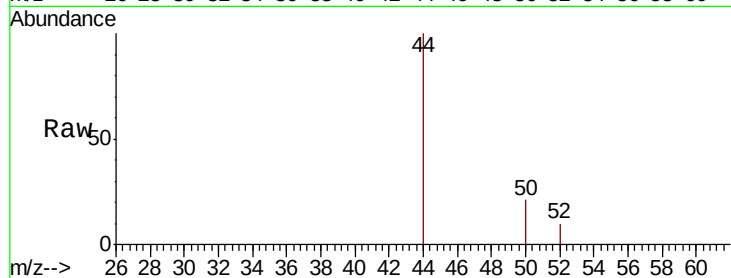
ClientSampleId :

Tot Ion: 50 Resp: 218

Ion Ratio Lower Upper

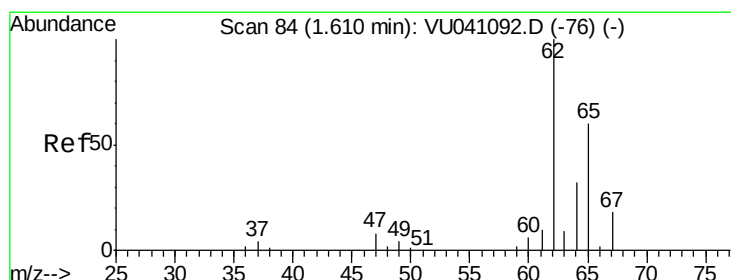
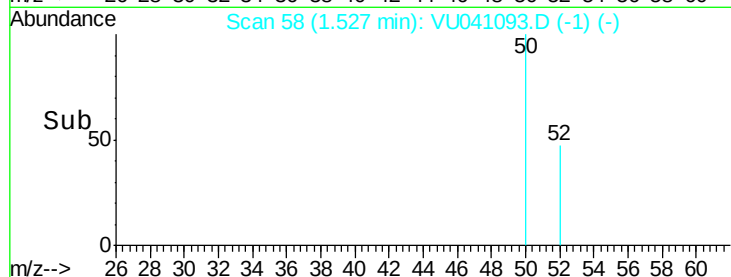
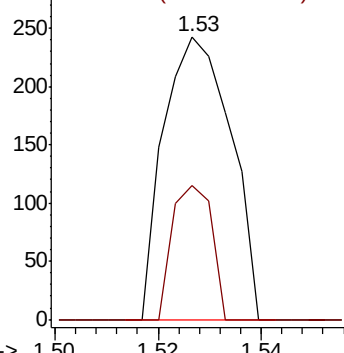
50 100

52 47.3 22.4 41.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.054 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041093.D

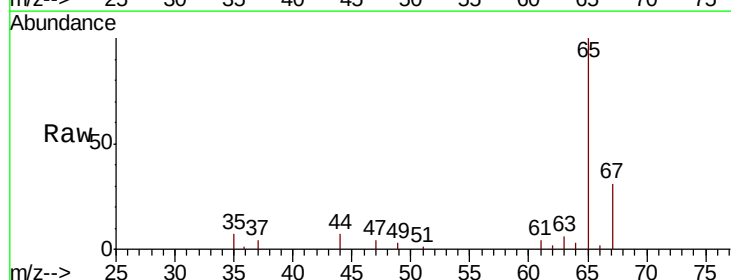
Acq: 04 Nov 2020 10:27

Tgt Ion: 62 Resp: 240

Ion Ratio Lower Upper

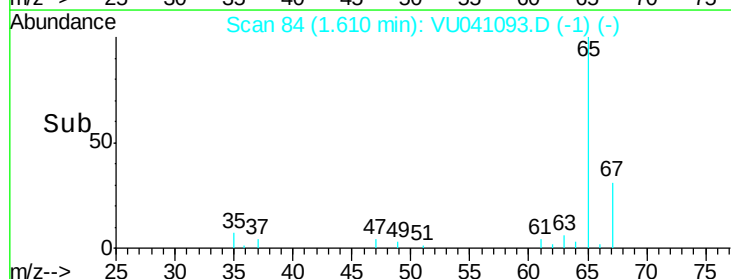
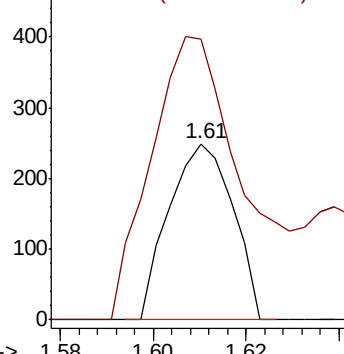
62 100

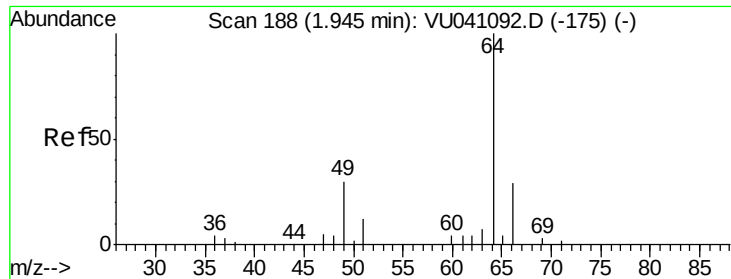
64 159.4 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

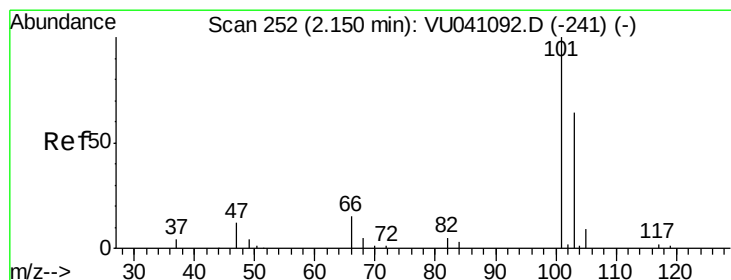
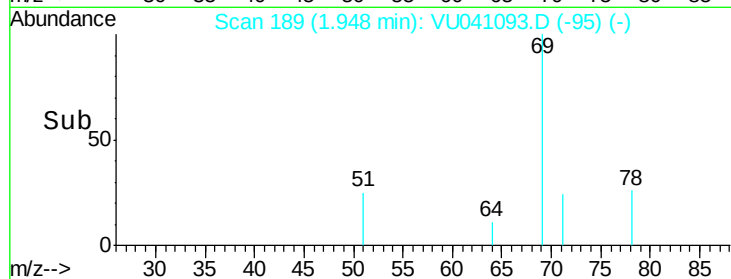
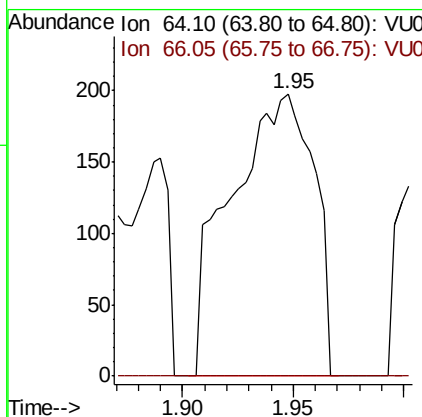
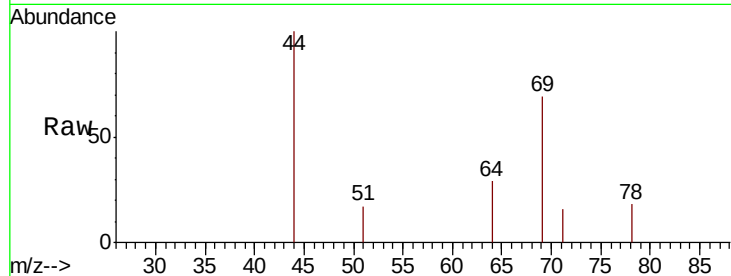




#8
Chloroethane
Concen: 0.182 ug/L
RT: 1.95 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

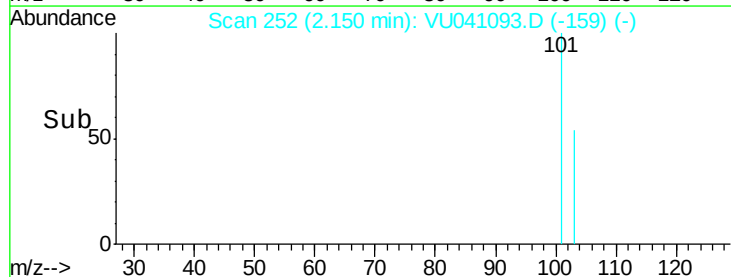
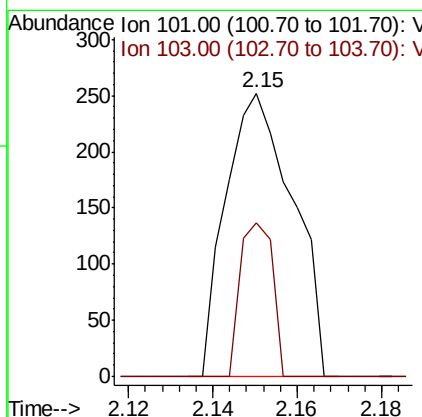
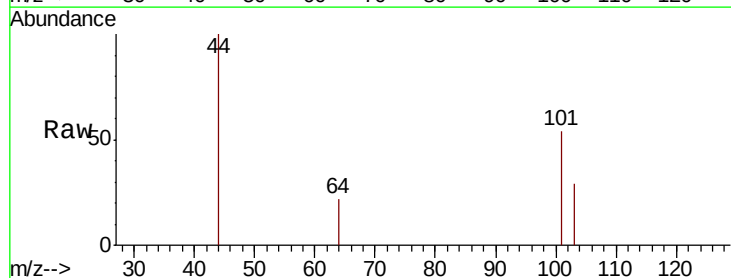
Instrument :
MSVOA_U
ClientSampled :

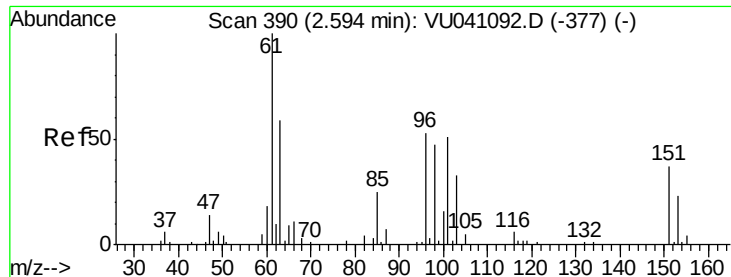
Tot Ion: 64 Resp: 518
Ion Ratio Lower Upper
64 100
66 0.0 22.3 41.5#



#9
Trichlorofluoromethane
Concen: 0.045 ug/L
RT: 2.15 min Scan# 252
Delta R.T. -0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

Tgt Ion:101 Resp: 277
Ion Ratio Lower Upper
101 100
103 26.7 51.0 76.4#





#10

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

Concen: 0.071 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.01 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

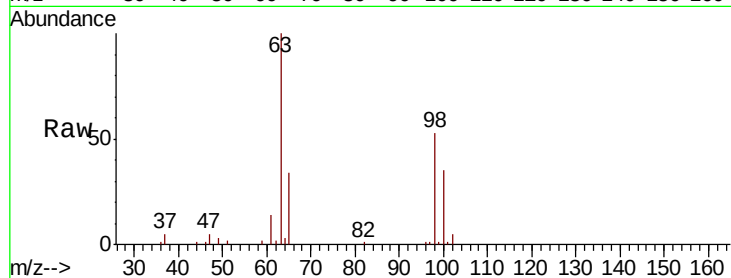
Tot Ion:101 Resp: 254

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

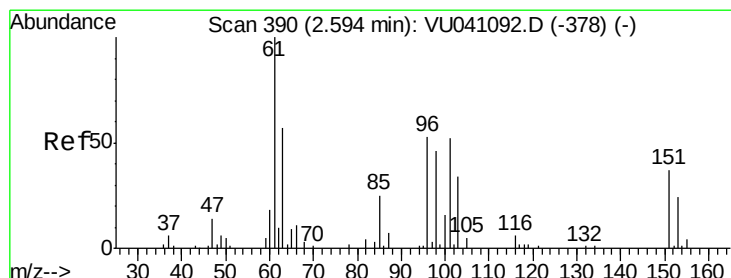
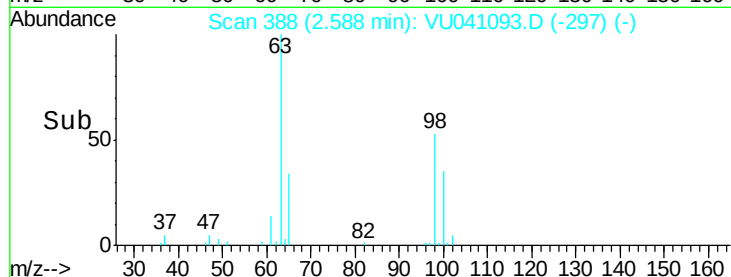
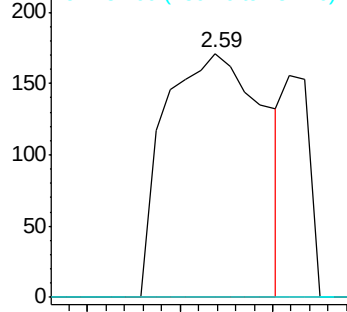
151 0.0 55.3 82.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.070 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

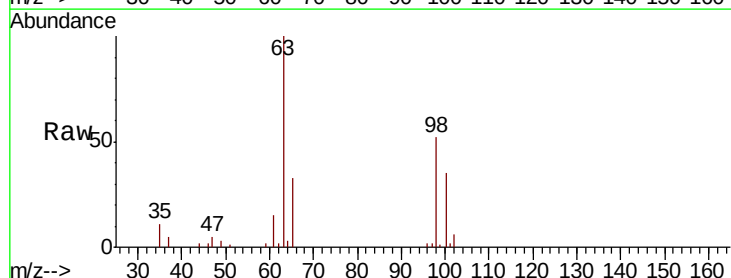
Tgt Ion: 96 Resp: 236

Ion Ratio Lower Upper

96 100

61 764.6 134.3 249.5#

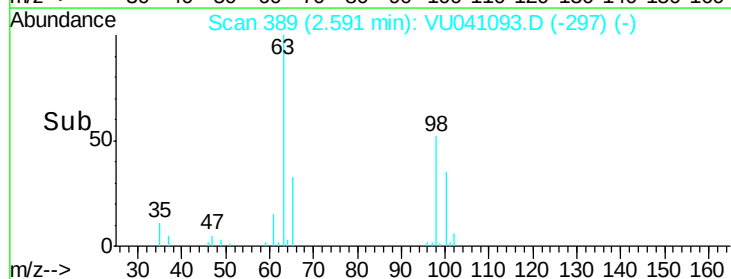
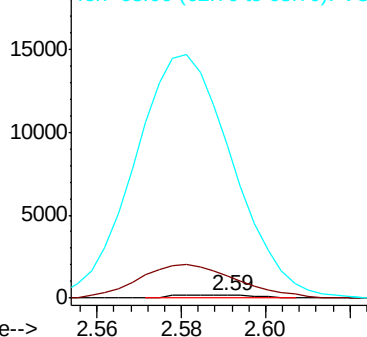
63 5265.1 95.0 176.4#

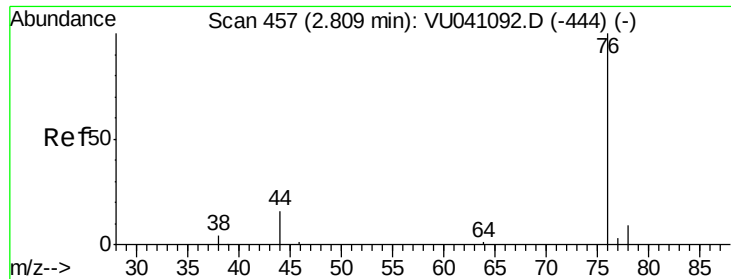


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#14

Carbon disulfide

Concen: 0.061 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

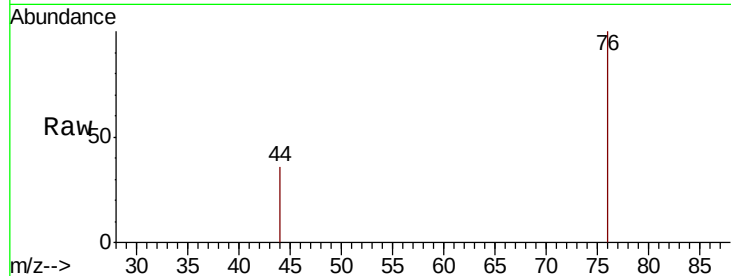
ClientSampled :

Tot Ion: 76 Resp: 685

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU041092.D

Ion 78.00 (77.70 to 78.70): VU041092.D

2.81

500

400

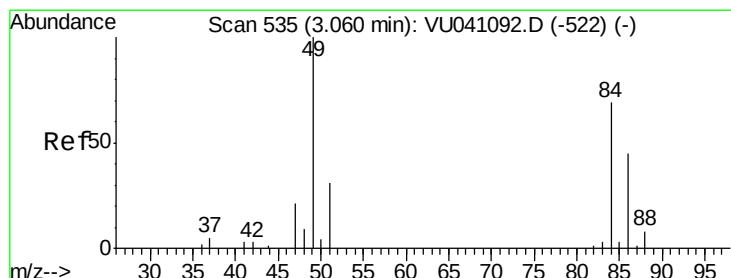
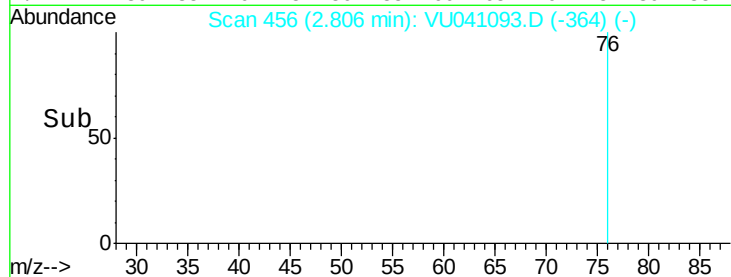
300

200

100

0

Time--> 2.76 2.78 2.80 2.82 2.84



#16

Methylene chloride

Concen: 0.139 ug/L

RT: 3.05 min Scan# 533

Delta R.T. -0.01 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

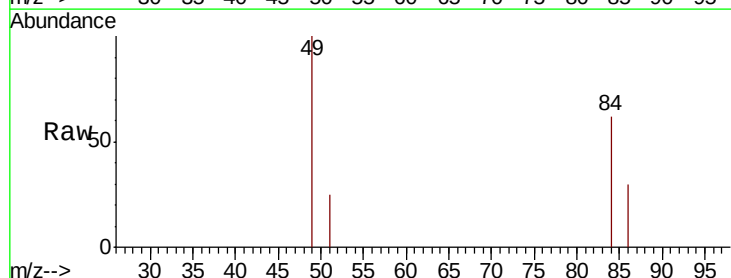
Tgt Ion: 84 Resp: 546

Ion Ratio Lower Upper

84 100

86 48.3 42.8 79.6

49 162.2 99.5 184.7



Abundance Ion 84.05 (83.75 to 84.75): VU041092.D

Ion 86.00 (85.70 to 86.70): VU041092.D

Ion 49.10 (48.80 to 49.80): VU041092.D

800

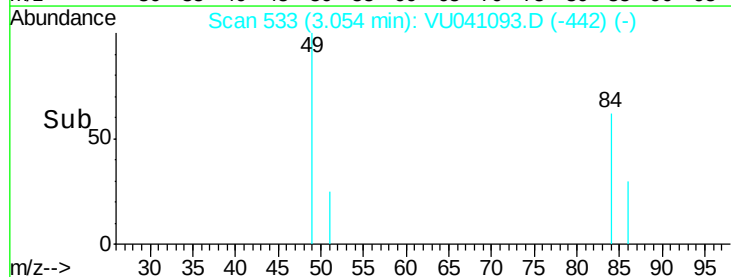
600

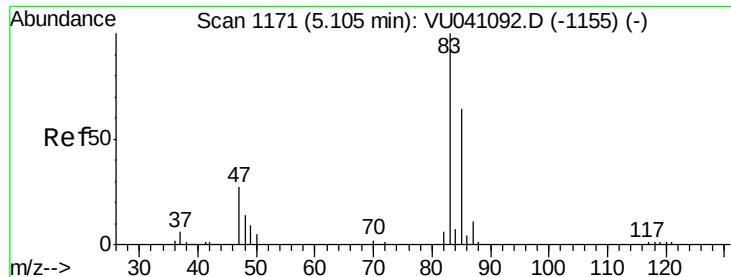
400

200

0

Time--> 3.02 3.04 3.06 3.08 3.10

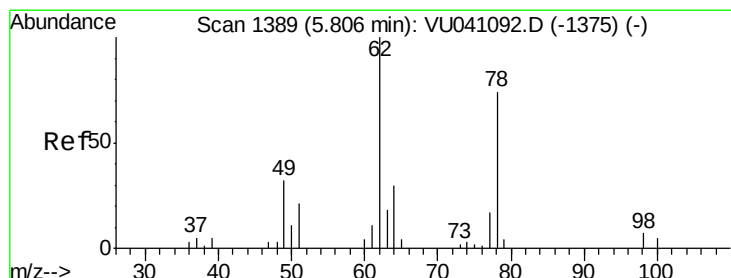
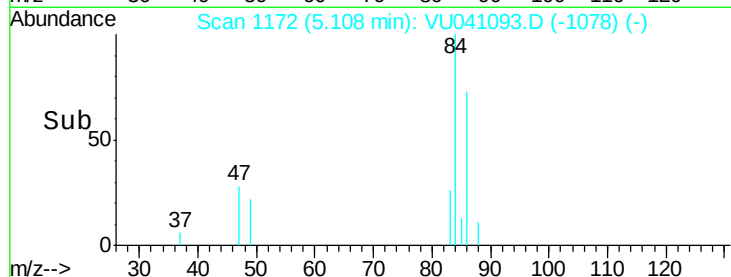
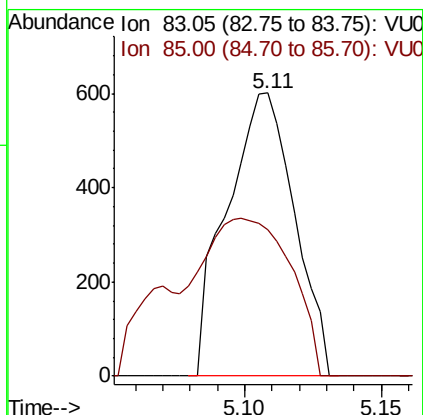
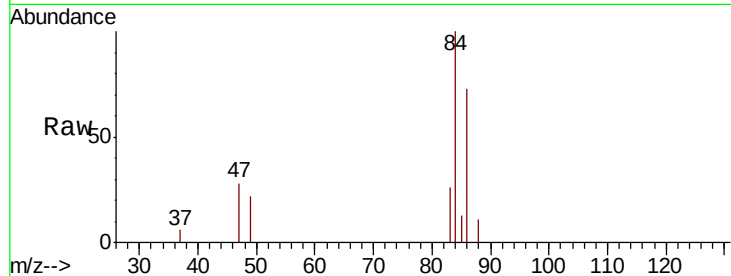




#25
Chloroform
Concen: 0.150 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

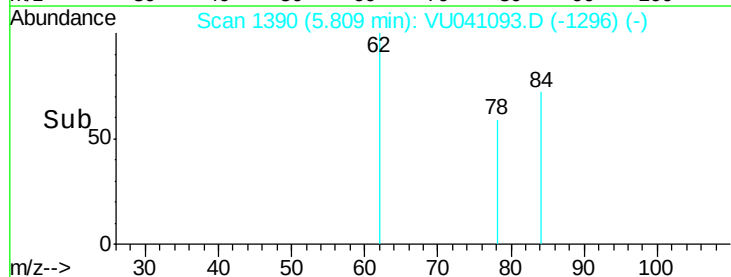
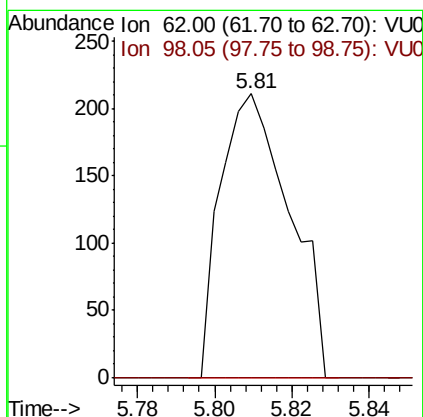
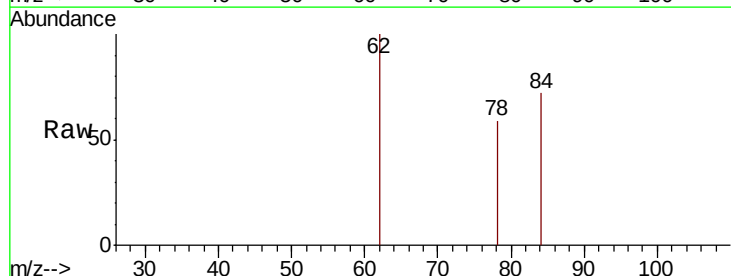
Instrument :
MSVOA_U
ClientSampled :

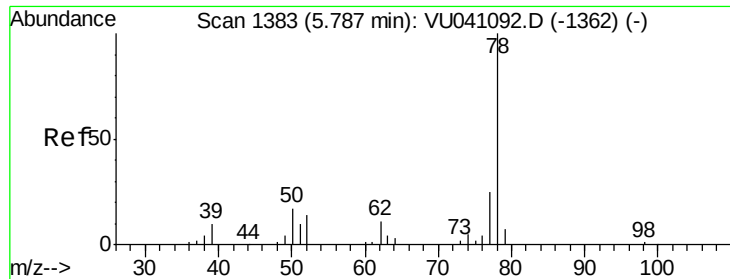
Tot Ion: 83 Resp: 1034
Ion Ratio Lower Upper
83 100
85 51.9 46.1 85.7



#27
1,2-Dichloroethane
Concen: 0.051 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

Tgt Ion: 62 Resp: 262
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#

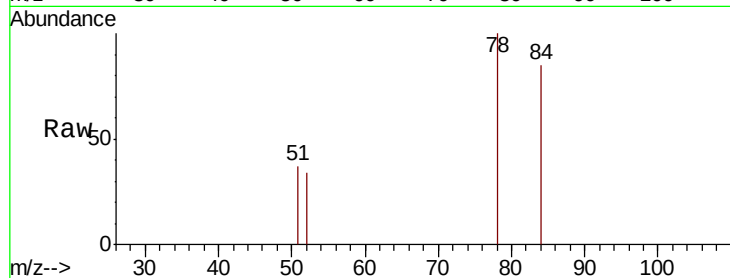




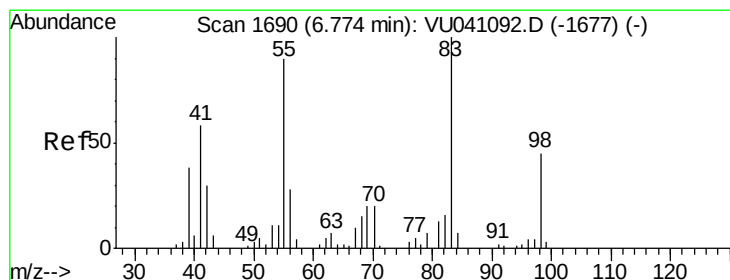
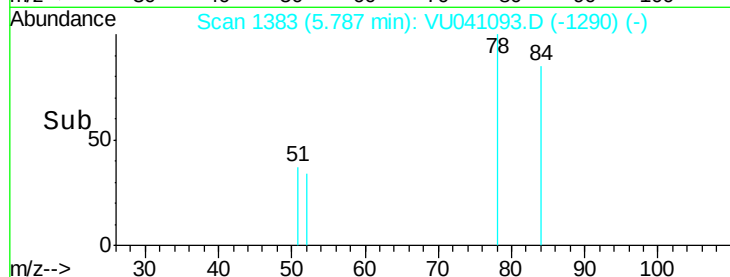
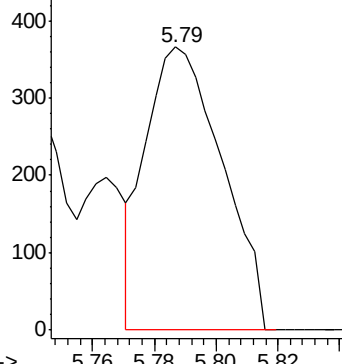
#33
Benzene
Concen: 0.042 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 628

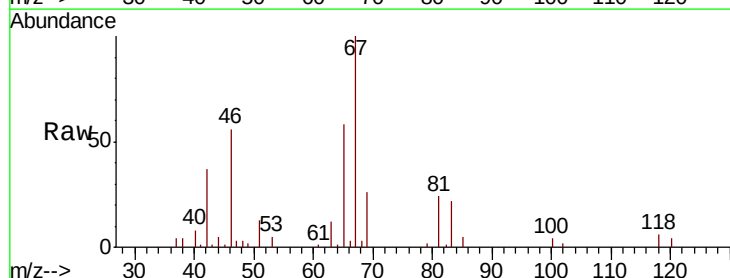


Abundance Ion 78.10 (77.80 to 78.80): VU0



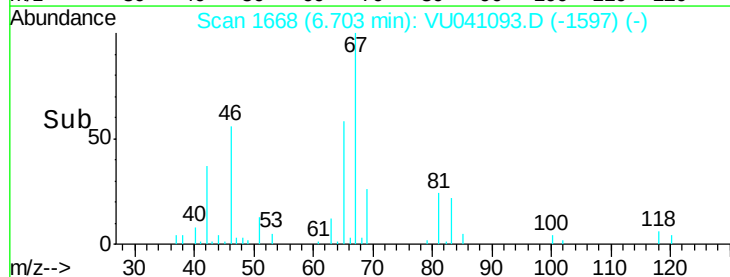
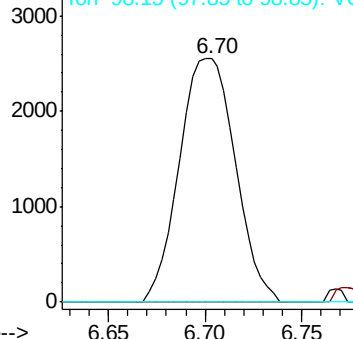
#35
Methylcyclohexane
Concen: 0.915 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

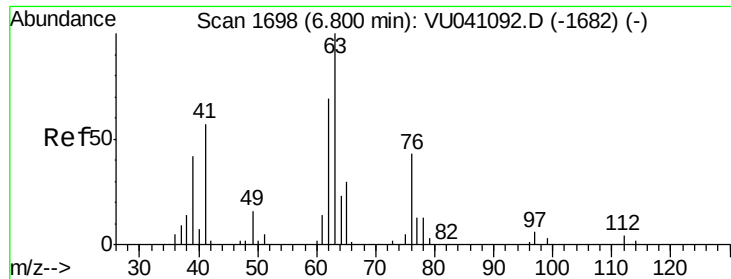
Tgt Ion: 83 Resp: 5139
Ion Ratio Lower Upper
83 100
55 3.5 72.0 108.0#
98 1.7 36.6 55.0#



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

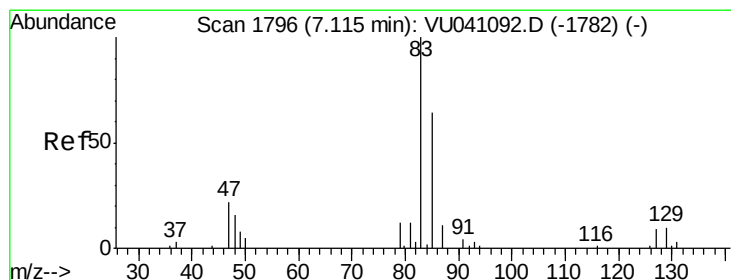
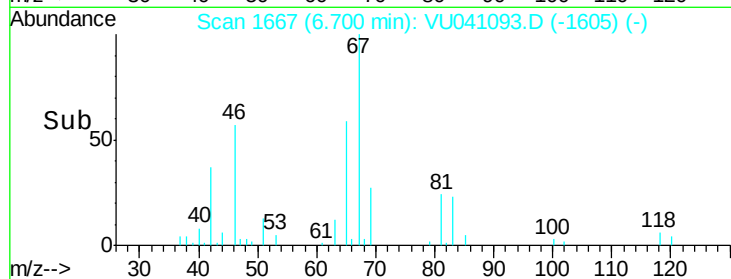
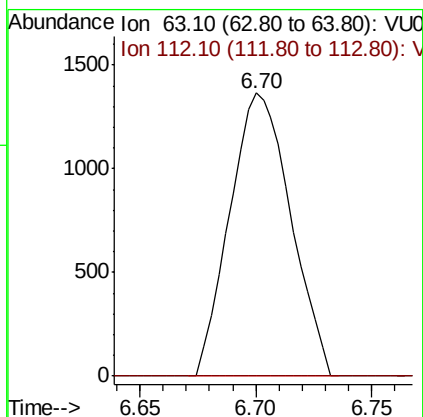
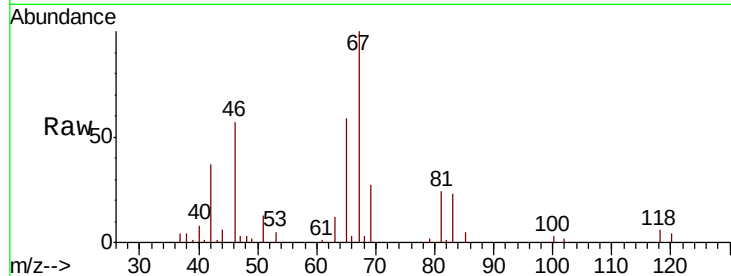




#37
 1,2-Dichloropropane
 Concen: 0.622 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041093.D
 Acq: 04 Nov 2020 10:27

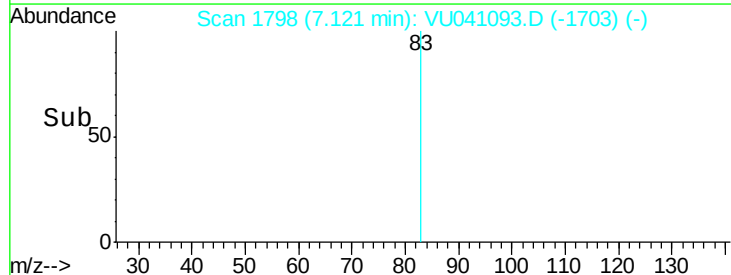
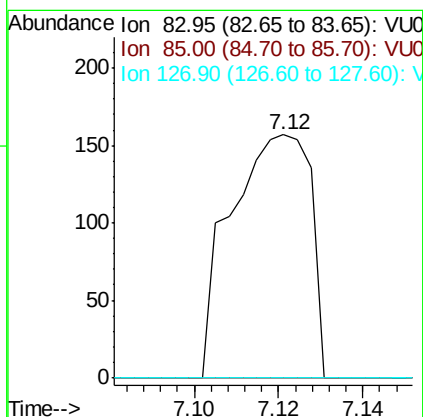
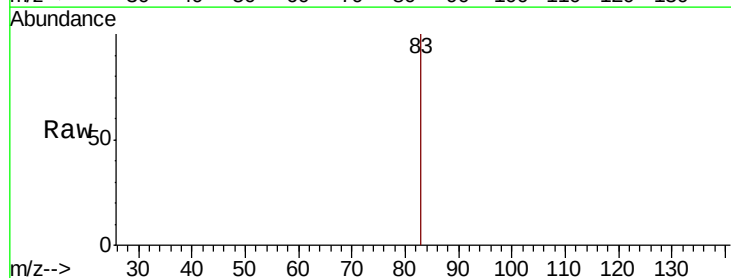
Instrument :
 MSVOA_U
 ClientSampleId :

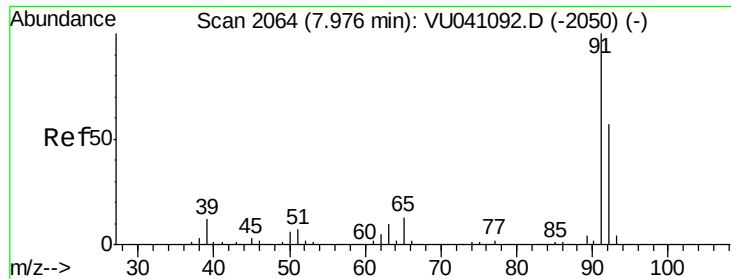
Tot Ion: 63 Resp: 2489
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#38
 Bromodichloromethane
 Concen: 0.039 ug/L
 RT: 7.12 min Scan# 1798
 Delta R.T. 0.01 min
 Lab File: VU041093.D
 Acq: 04 Nov 2020 10:27

Tgt Ion: 83 Resp: 205
 Ion Ratio Lower Upper
 83 100
 85 0.0 43.3 80.3#
 127 0.0 5.9 8.9#





#42

Toluene

Concen: 0.049 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

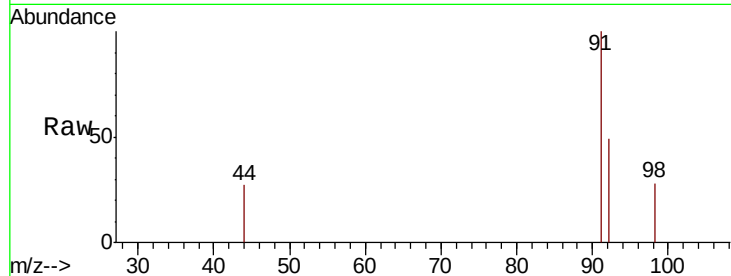
ClientSampleId :

Tot Ion: 91 Resp: 742

Ion Ratio Lower Upper

91 100

92 49.0 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU041092.D (-2050) (-)

Ion 92.15 (91.85 to 92.85): VU041092.D (-2050) (-)

7.97

500

400

300

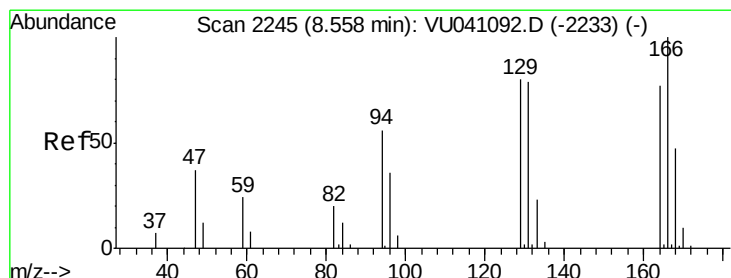
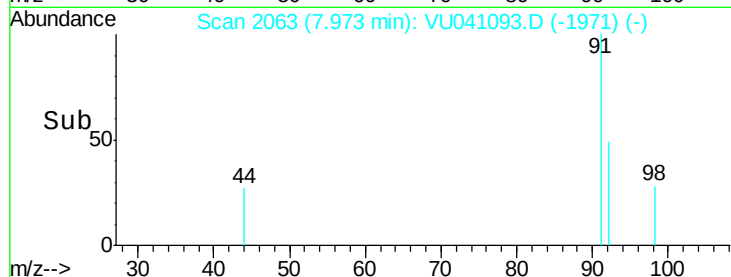
200

100

0

7.94 7.96 7.98 8.00

Time-->



#47

Tetrachloroethene

Concen: 0.055 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Tgt Ion: 164 Resp: 152

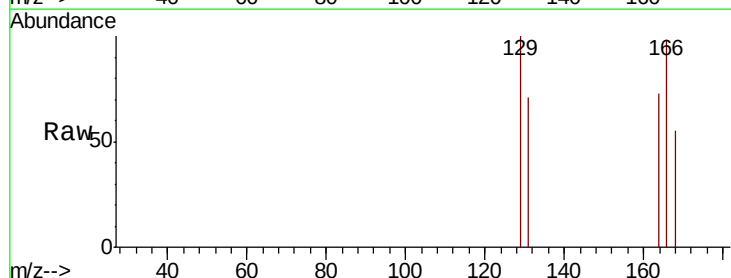
Ion Ratio Lower Upper

164 100

129 136.3 70.3 130.7#

131 96.9 70.8 131.4

166 133.1 92.0 170.8



Abundance Ion 163.90 (163.60 to 164.60): VU041092.D (-2233) (-)

Ion 128.95 (128.65 to 129.65): VU041092.D (-2233) (-)

Ion 130.95 (130.65 to 131.65): VU041092.D (-2233) (-)

Ion 165.90 (165.60 to 166.60): VU041092.D (-2233) (-)

400

300

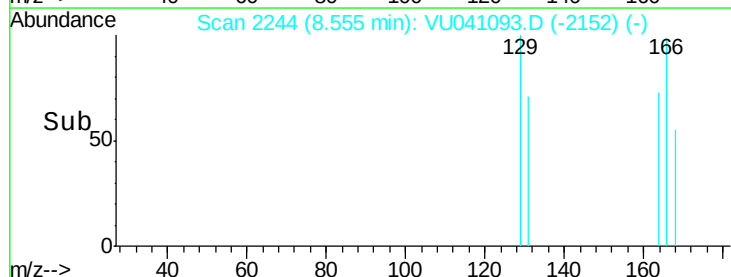
200

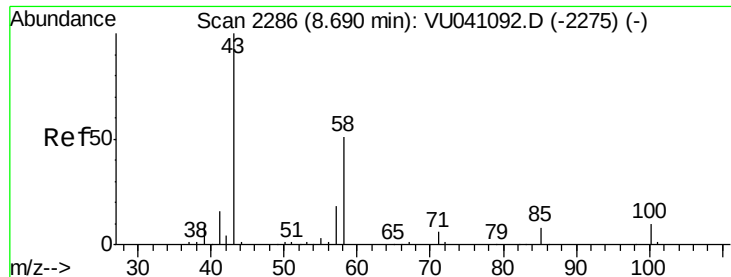
100

0

8.54 8.56

Time-->

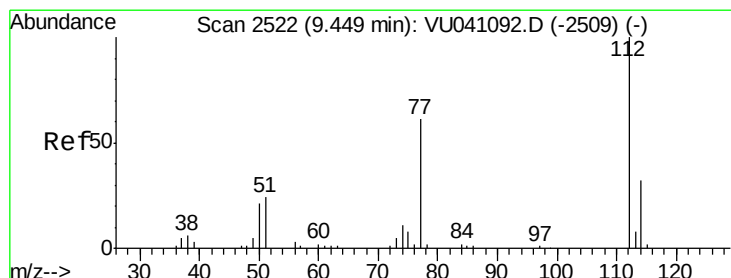
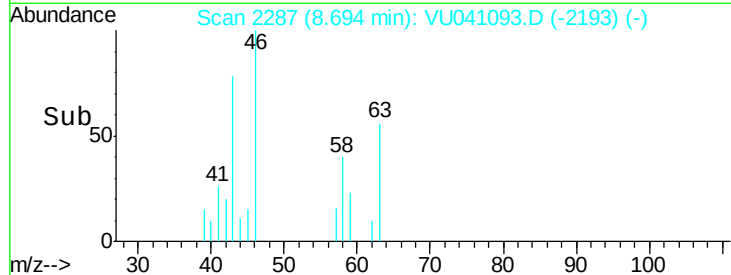
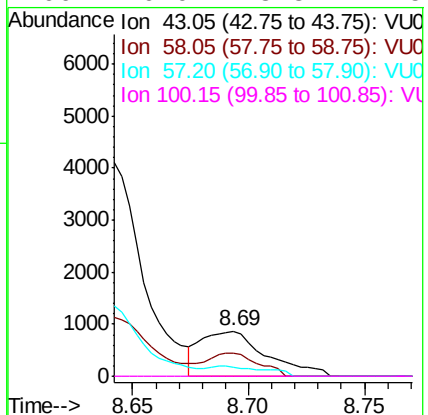
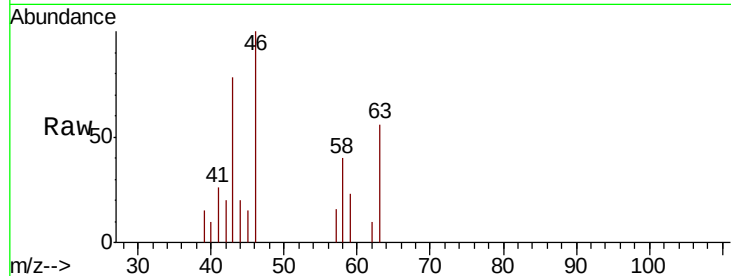




#48
2-Hexanone
Concen: 0.708 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

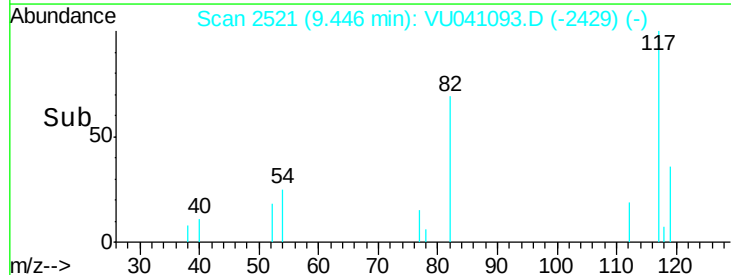
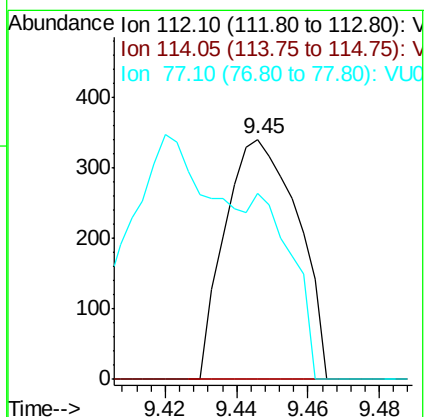
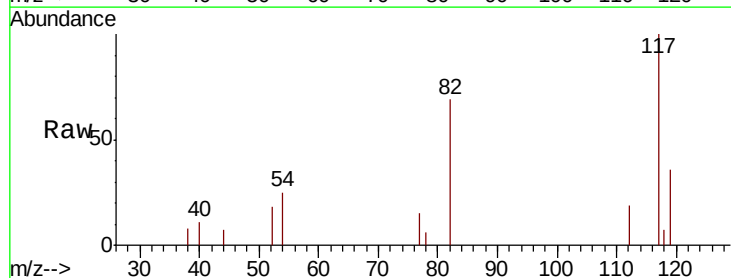
Instrument :
MSVOA_U
ClientSampleId :

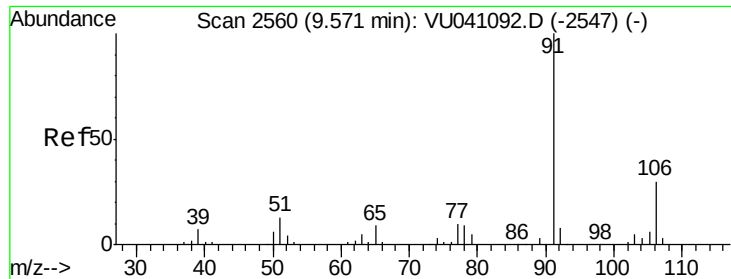
Tot Ion: 43 Resp: 1701
Ion Ratio Lower Upper
43 100
58 42.4 41.4 62.2
57 18.7 14.6 21.8
100 0.0 8.3 12.5#



#51
Chlorobenzene
Concen: 0.050 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU041093.D
Acq: 04 Nov 2020 10:27

Tgt Ion: 112 Resp: 479
Ion Ratio Lower Upper
112 100
114 0.0 22.4 41.6#
77 77.4 51.2 76.8#





#52

Ethylbenzene

Concen: 0.054 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

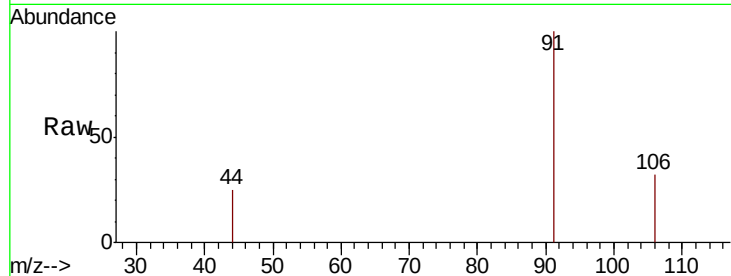
ClientSampled :

Tot Ion: 91 Resp: 857

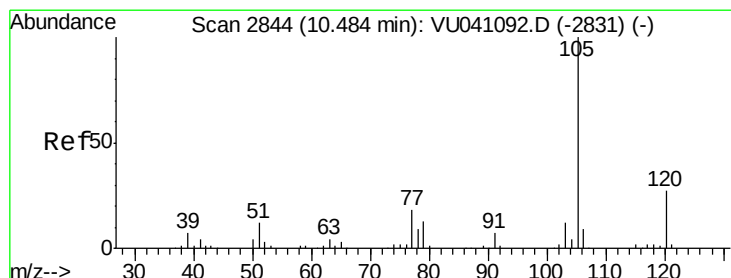
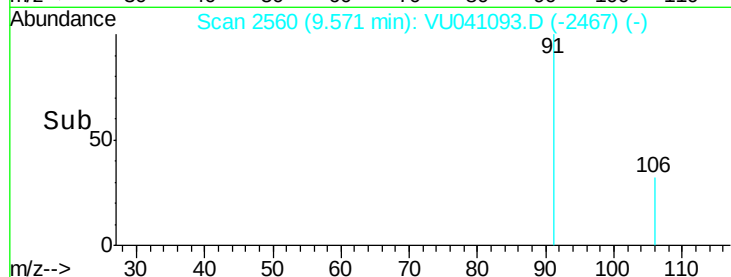
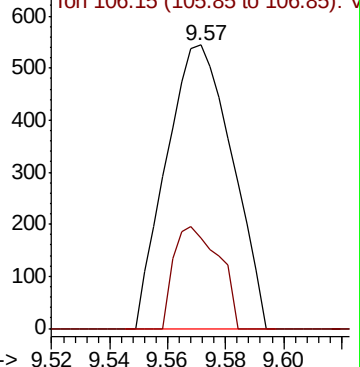
Ion Ratio Lower Upper

91 100

106 32.0 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041093.D (-2547) (-)



#56

Isopropylbenzene

Concen: 0.045 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

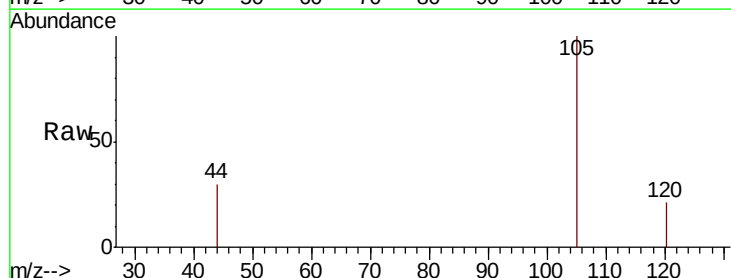
Tgt Ion: 105 Resp: 655

Ion Ratio Lower Upper

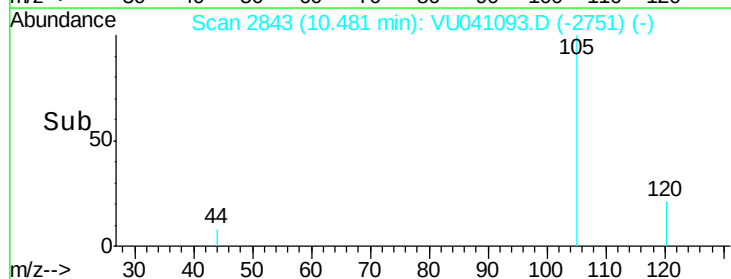
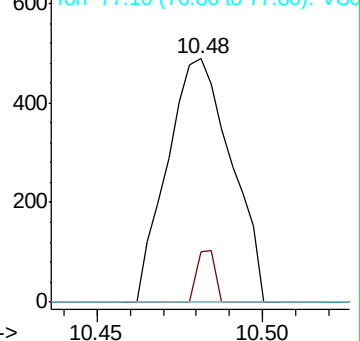
105 100

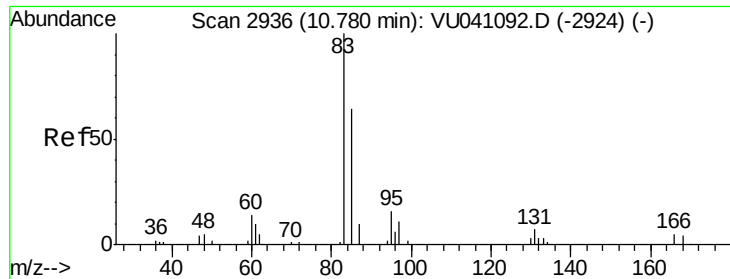
120 6.1 20.7 31.1#

77 0.0 13.8 20.6#



Abundance Ion 105.05 (104.75 to 105.75): VU041093.D (-2751) (-)





#58

1,1,2,2-Tetrachloroethane

Concen: 0.071 ug/L

RT: 10.79 min Scan# 2938

Delta R.T. 0.01 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

ClientSampled :

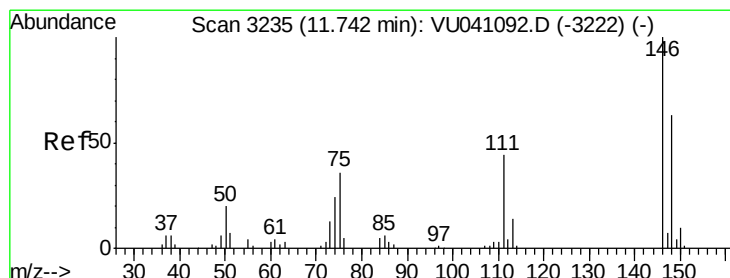
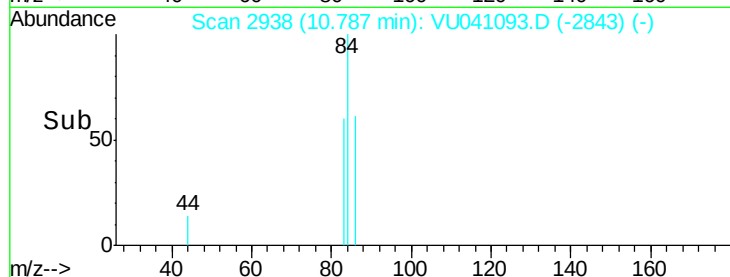
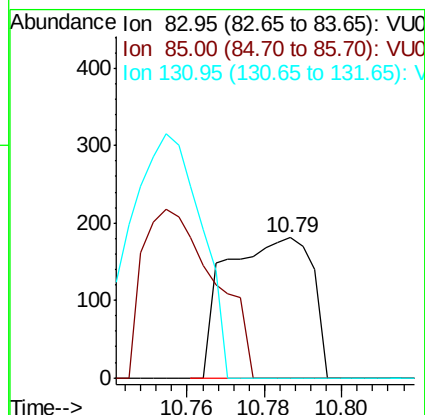
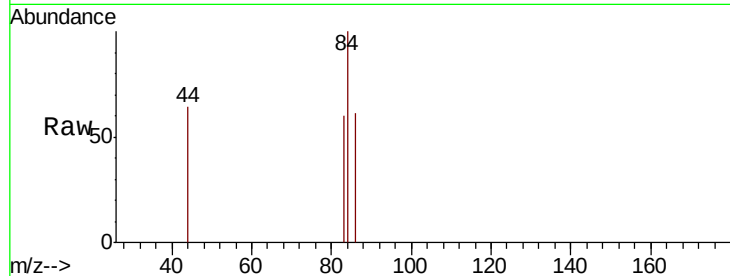
Tot Ion: 83 Resp: 279

Ion Ratio Lower Upper

83 100

85 0.0 44.4 82.4#

131 0.0 7.7 11.5#



#62

1,3-Dichlorobenzene

Concen: 0.066 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

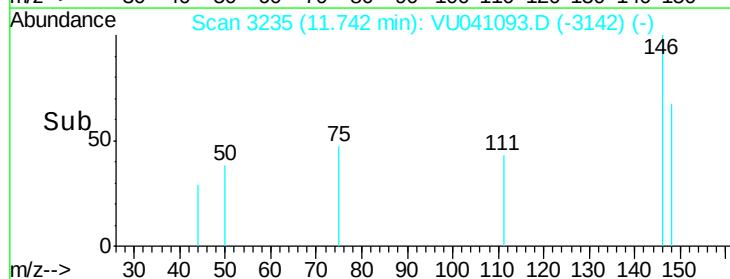
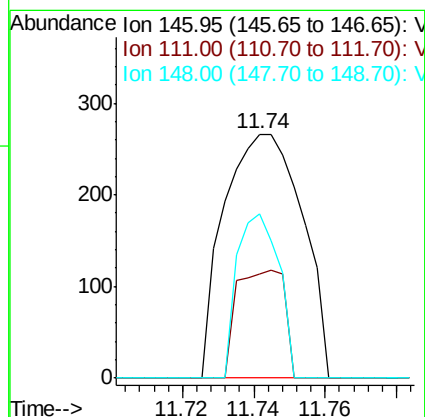
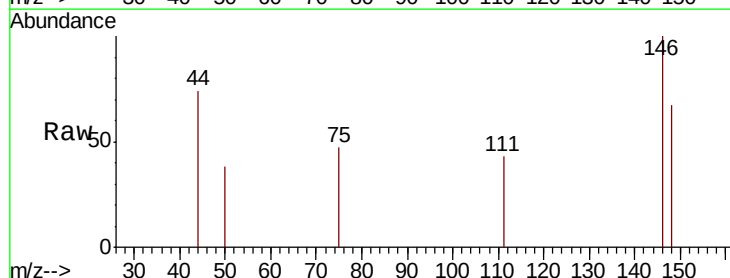
Tgt Ion: 146 Resp: 402

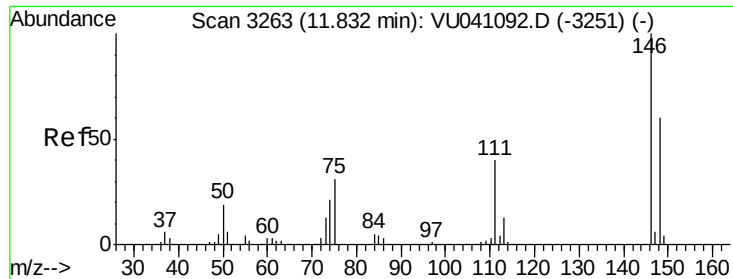
Ion Ratio Lower Upper

146 100

111 42.9 30.9 57.3

148 67.3 45.8 85.2

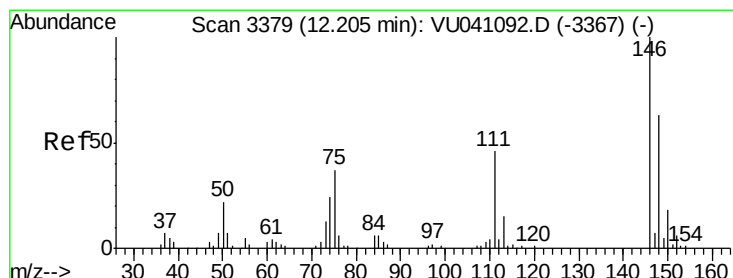
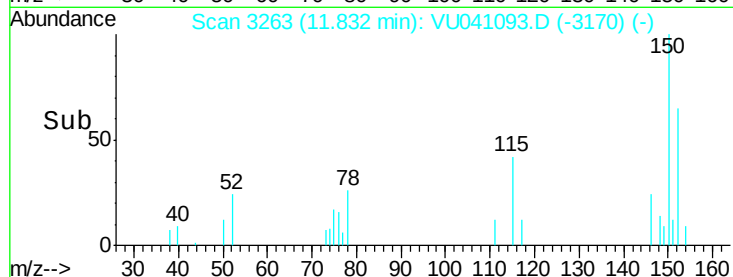
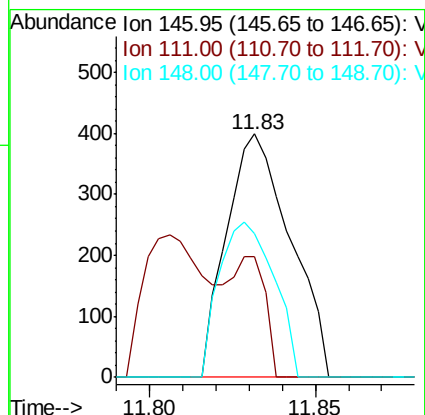
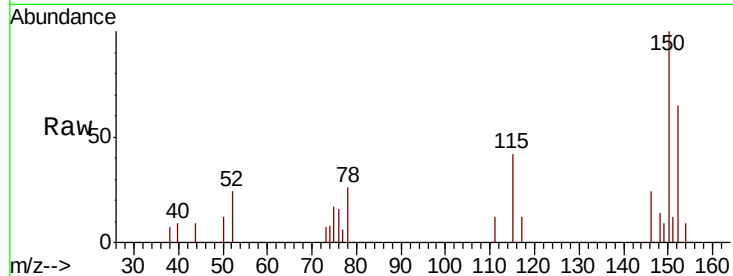




#63
 1,4-Dichlorobenzene
 Concen: 0.085 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU041093.D
 Acq: 04 Nov 2020 10:27

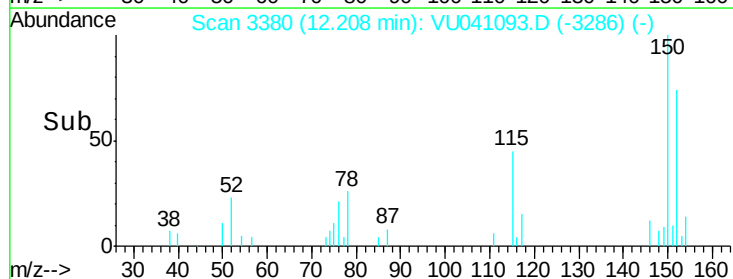
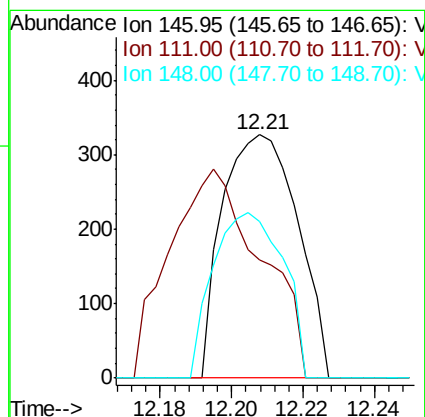
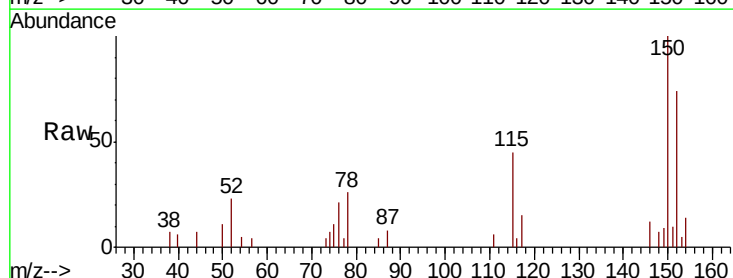
Instrument :
 MSVOA_U
 ClientSampled :

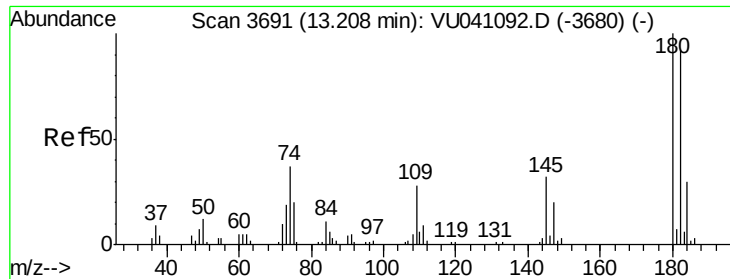
Tot Ion:146 Resp: 535
 Ion Ratio Lower Upper
 146 100
 111 49.4 28.3 52.7
 148 59.1 44.2 82.2



#65
 1,2-Dichlorobenzene
 Concen: 0.079 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU041093.D
 Acq: 04 Nov 2020 10:27

Tgt Ion:146 Resp: 477
 Ion Ratio Lower Upper
 146 100
 111 48.6 35.0 52.6
 148 64.2 52.0 78.0

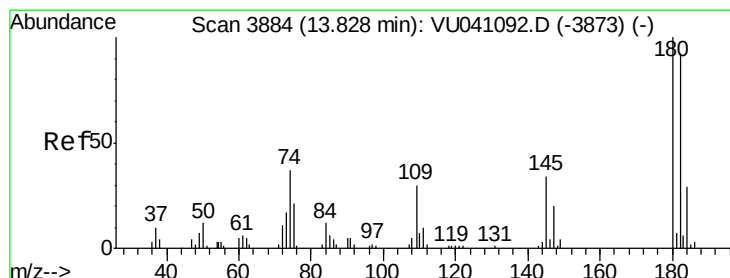
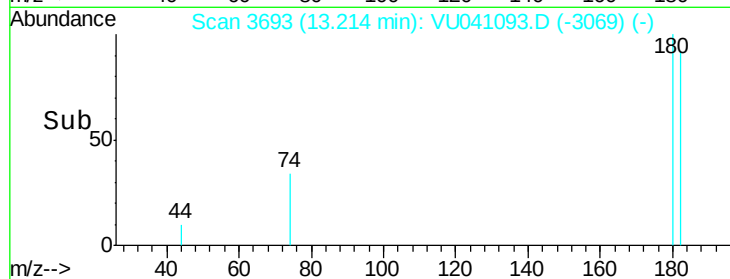
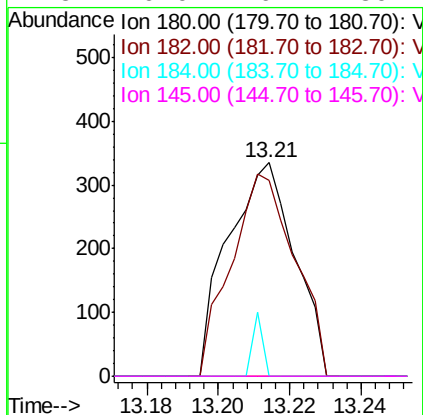
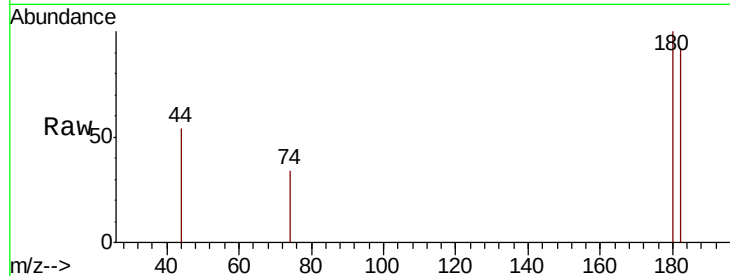




#67
 1,3,5-Trichlorobenzene
 Concen: 0.101 ug/L
 RT: 13.21 min Scan# 3693
 Delta R.T. 0.01 min
 Lab File: VU041093.D
 Acq: 04 Nov 2020 10:27

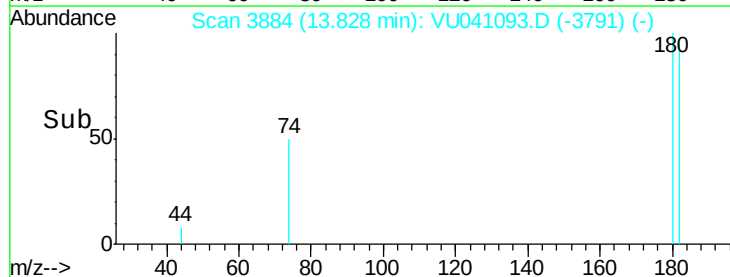
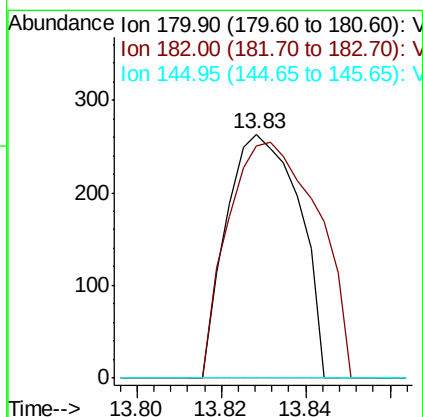
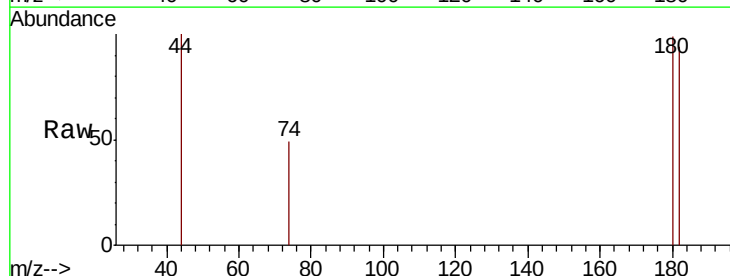
Instrument :
 MSVOA_U
 ClientSampleId :

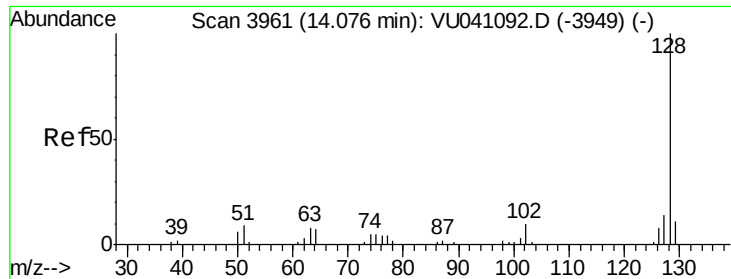
Tot Ion:180 Resp: 431
 Ion Ratio Lower Upper
 180 100
 182 91.0 75.7 113.5
 184 4.4 23.7 35.5#
 145 0.0 26.1 39.1#



#68
 1,2,4-trichlorobenzene
 Concen: 0.089 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU041093.D
 Acq: 04 Nov 2020 10:27

Tgt Ion:180 Resp: 314
 Ion Ratio Lower Upper
 180 100
 182 120.1 73.5 110.3#
 145 0.0 26.6 40.0#





#69

Naphthalene

Concen: 0.147 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. -0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

Instrument :

MSVOA_U

ClientSampleId :

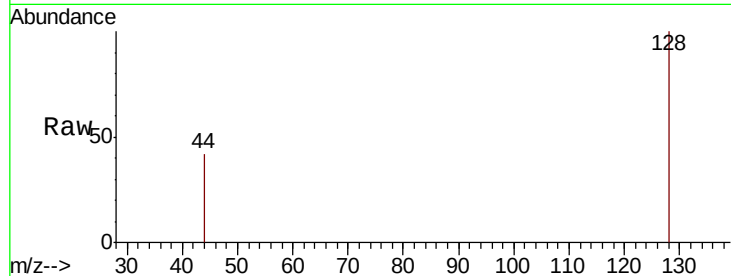
Tot Ion:128 Resp: 925

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

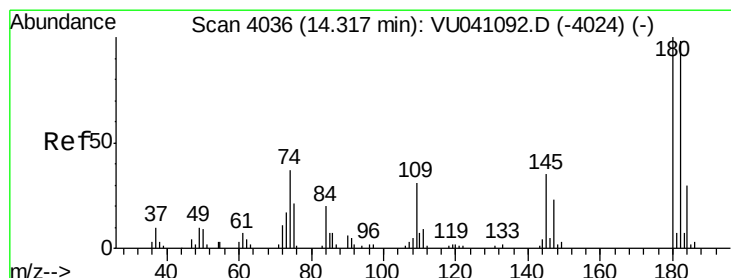
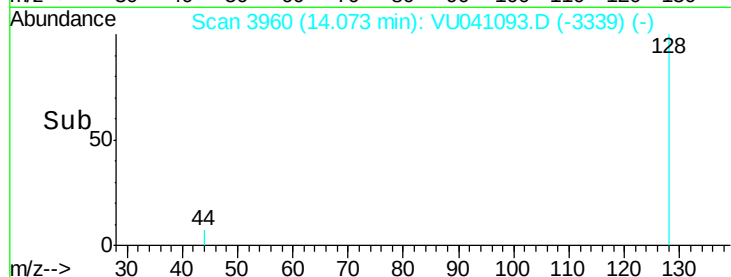
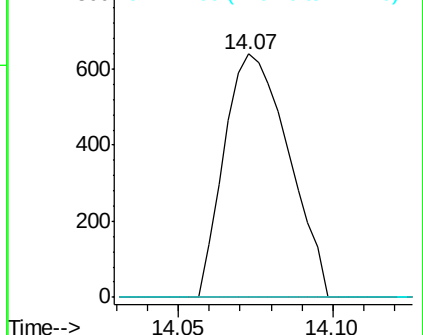
127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.134 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU041093.D

Acq: 04 Nov 2020 10:27

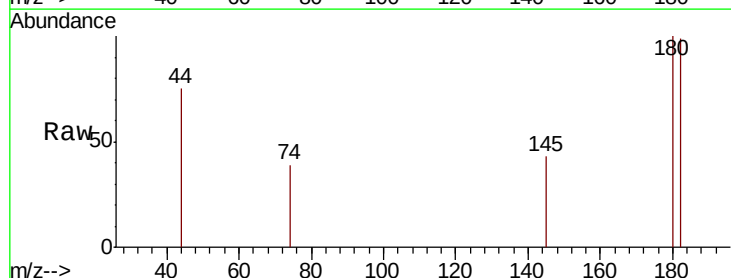
Tgt Ion:180 Resp: 435

Ion Ratio Lower Upper

180 100

182 97.2 77.7 116.5

145 16.3 29.4 44.0#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

