

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100620\
 Data File : VU040527.D
 Acq On : 06 Oct 2020 14:42
 Operator : SY/MD
 Sample : VIBLK35
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK351

Quant Time: Oct 07 08:12:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 07 08:04:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	294899	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	291158	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	132698	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	102614	40.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.04%
7) Chloroethane-d5	1.92	69	83847	43.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.92%
11) 1,1-Dichloroethene-d2	2.58	63	156284	32.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.68%
21) 2-Butanone-d5	4.64	46	182901	91.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.00%
24) Chloroform-d	5.08	84	197625	45.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.48%
26) 1,2-Dichloroethane-d4	5.72	65	141241	46.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.84%
32) Benzene-d6	5.74	84	382214	46.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.24%
36) 1,2-Dichloropropane-d6	6.70	67	129241	46.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.06%
41) Toluene-d8	7.91	98	340003	45.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.52%
43) trans-1,3-Dichloropropene-	8.19	79	61458	44.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.42%
47) 2-Hexanone-d5	8.64	63	112600	86.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.97%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	178815	44.57	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.14%
66) 1,2-Dichlorobenzene-d4	12.19	152	133702	49.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.02%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1926	0.853	ug/L #	53
12) 1,1-Dichloroethene	2.58	96	1684	0.806	ug/L #	1
13) Acetone	2.64	43	1552	0.804	ug/L	84
14) Carbon disulfide	2.81	76	11550	1.611	ug/L #	93
17) trans-1,2-Dichloroethene	3.37	96	1453	0.653	ug/L	74
34) Trichloroethene	6.55	95	1100	0.454	ug/L	85
40) 4-Methyl-2-pentanone	7.80	43	5788	1.419	ug/L #	89
44) trans-1,3-Dichloropropene	8.18	75	3067	0.804	ug/L #	66
46) Tetrachloroethene	8.56	164	932	0.532	ug/L	88
48) 2-Hexanone	8.69	43	11469	3.460	ug/L #	89
52) Ethylbenzene	9.57	91	4211	0.395	ug/L	89
55) Styrene	10.11	104	2871	0.436	ug/L	90
57) 1,1,2,2-Tetrachloroethane	10.78	83	2796	0.683	ug/L #	77
60) 1,2,3-Trichloropropane	10.82	75	2635	0.874	ug/L #	91
61) Isopropylbenzene	10.48	105	4515	0.507	ug/L	98
62) 1,3,5-Trimethylbenzene	11.09	105	4268	0.583	ug/L	95
63) 1,2,4-Trimethylbenzene	11.47	105	4677	0.630	ug/L	91

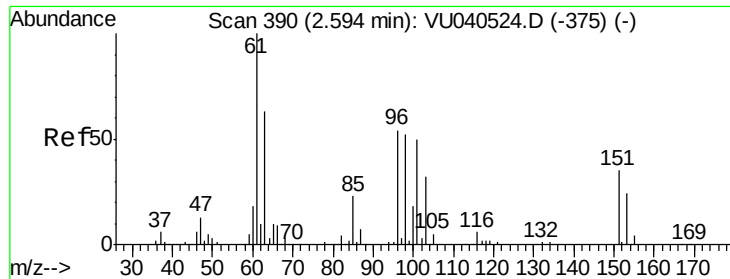
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100620\
Data File : VU040527.D
Acq On : 06 Oct 2020 14:42
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Oct 07 08:04:20 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.74	146	5287	1.217	ug/L	97
65) 1,4-Dichlorobenzene	11.83	146	6573	1.440	ug/L	94
67) 1,2-Dichlorobenzene	12.21	146	6386	1.467	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.99	75	2069	2.443	ug/L	97
69) 1,3,5-Trichlorobenzene	13.21	180	8109	2.848	ug/L	95
70) 1,2,4-trichlorobenzene	13.83	180	12107	4.906	ug/L	97
71) Naphthalene	14.08	128	60736	7.963	ug/L	99
72) 1,2,3-Trichlorobenzene	14.32	180	15467	6.315	ug/L	99

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



#10

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

Concen: 0.853 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

VIBLK351

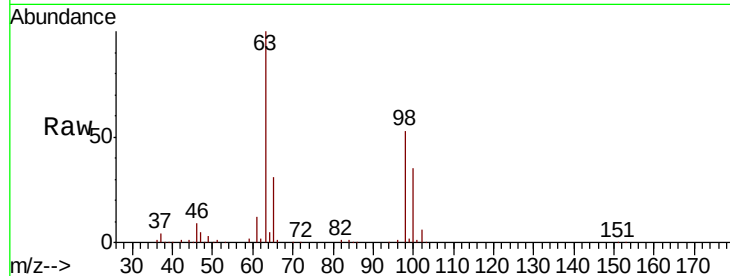
Tot Ion:101 Resp: 1926

Ion Ratio Lower Upper

101 100

85 20.8 35.4 53.2#

151 25.1 54.8 82.2#

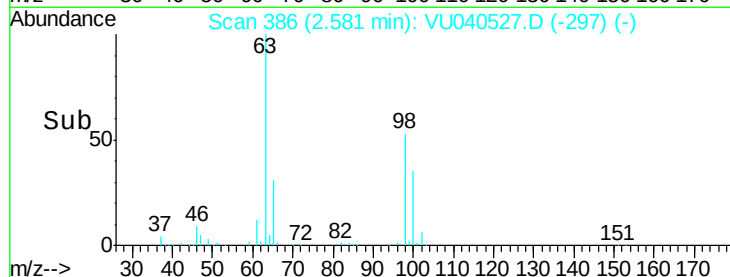


Abundance Ion 101.00 (100.70 to 101.70): V

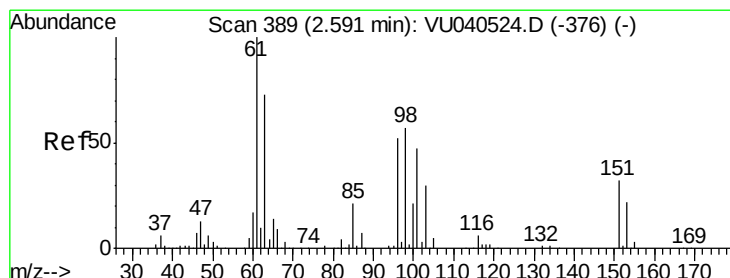
Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.58



Time-->



#12

1,1-Dichloroethene

Concen: 0.806 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

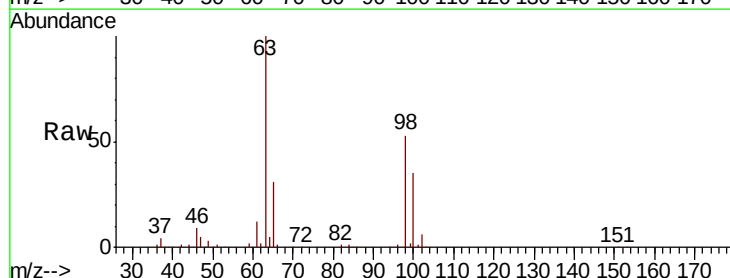
Tgt Ion: 96 Resp: 1684

Ion Ratio Lower Upper

96 100

61 1174.6 135.0 250.8#

63 9531.4 101.4 188.2#

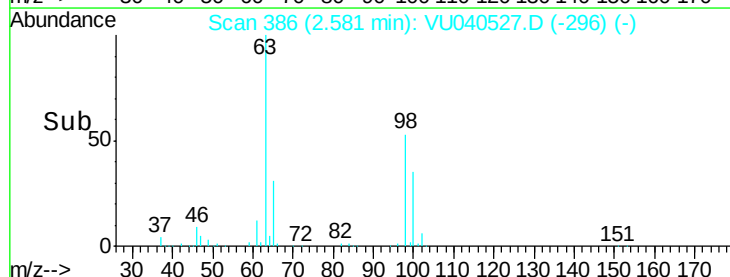


Abundance Ion 96.00 (95.70 to 96.70): VU0

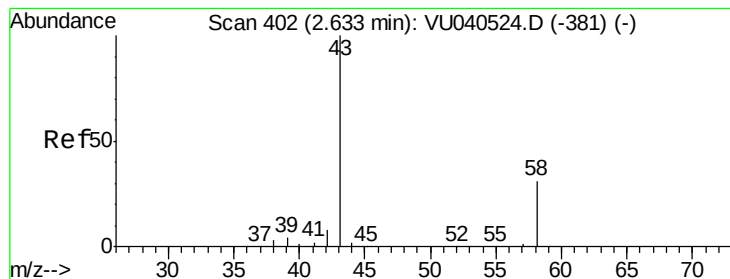
Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

2.58



Time-->



#13

Acetone

Concen: 0.804 ug/L

RT: 2.64 min Scan# 404

Delta R.T. 0.01 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

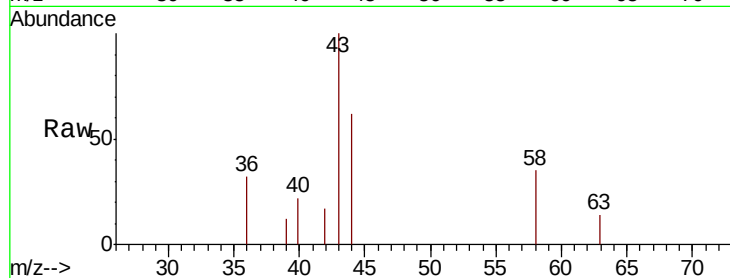
VIBLK351

Tot Ion: 43 Resp: 1552

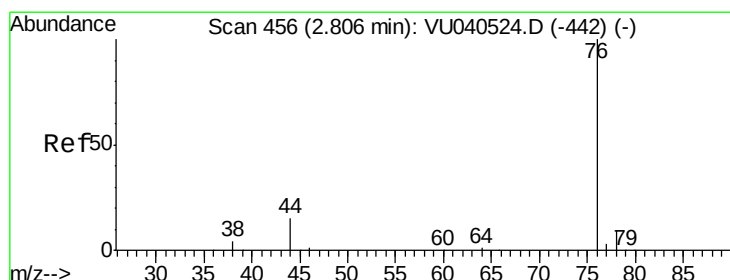
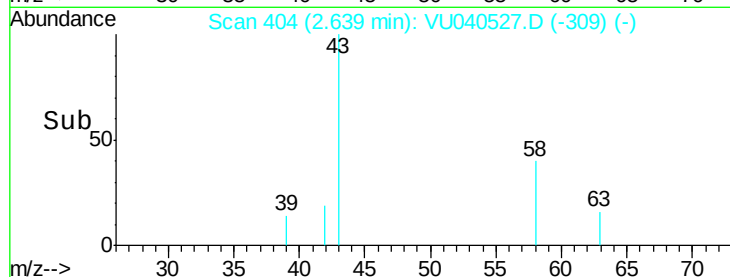
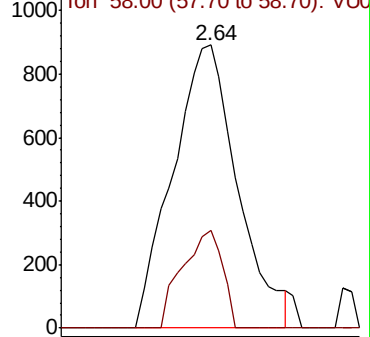
Ion Ratio Lower Upper

43 100

58 21.5 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040527.D (-309) (-)



#14

Carbon disulfide

Concen: 1.611 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040527.D

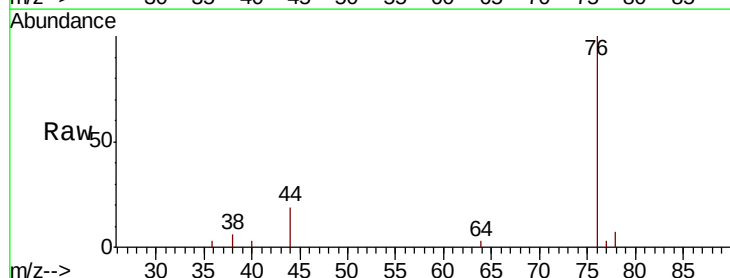
Acq: 06 Oct 2020 14:42

Tgt Ion: 76 Resp: 11550

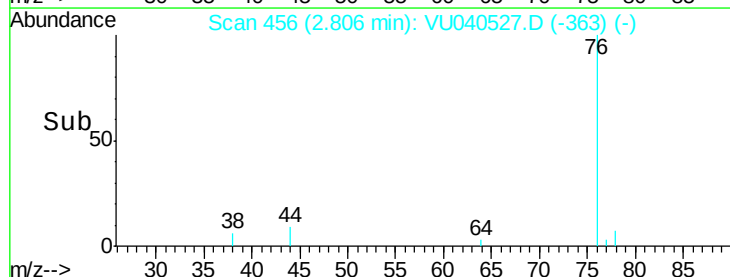
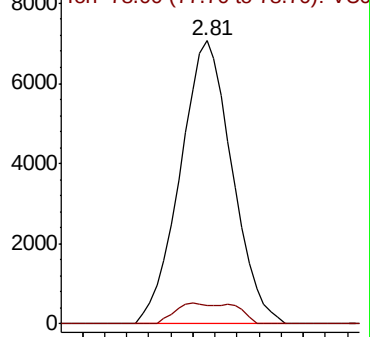
Ion Ratio Lower Upper

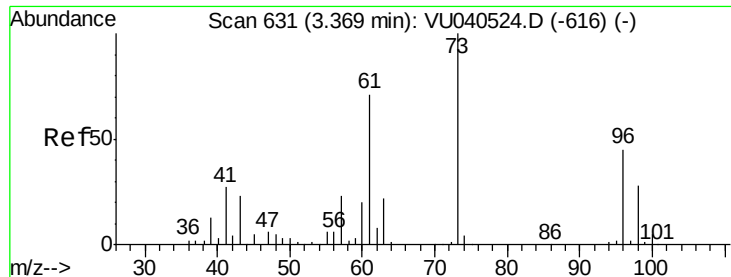
76 100

78 6.6 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VU040527.D (-363) (-)

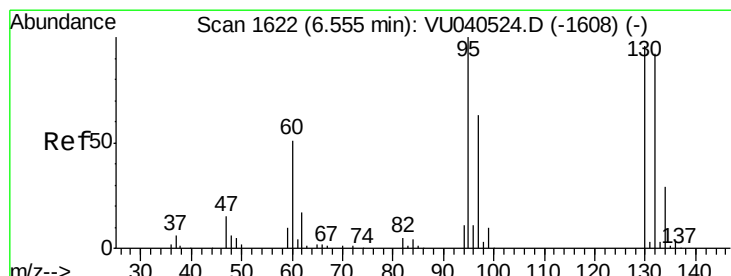
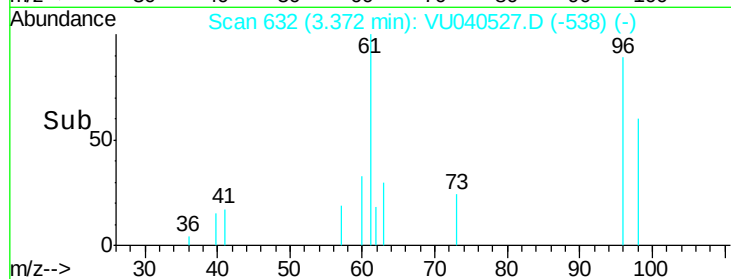
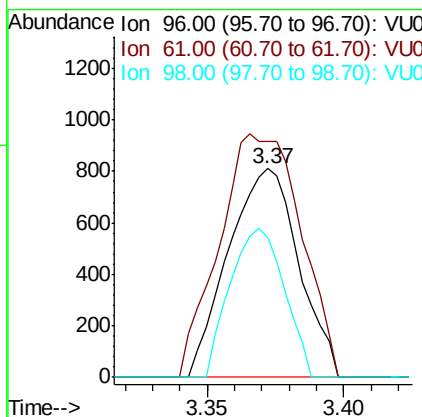
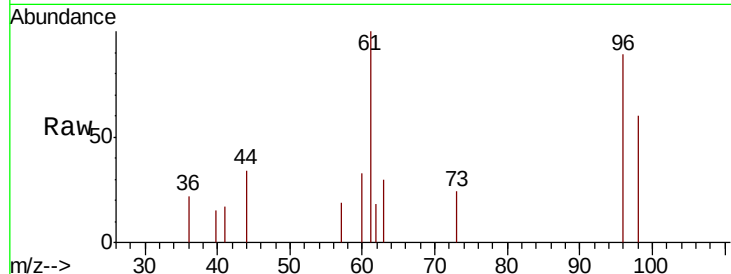




#17
trans-1,2-Dichloroethene
Concen: 0.653 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU040527.D
Acq: 06 Oct 2020 14:42

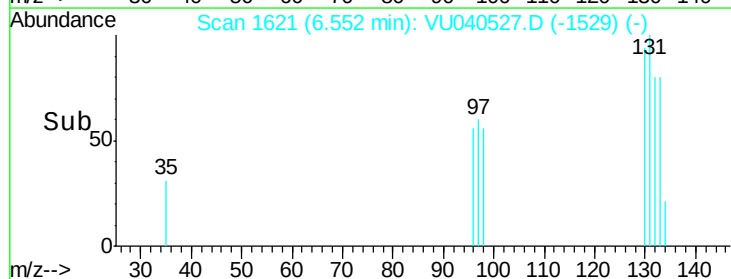
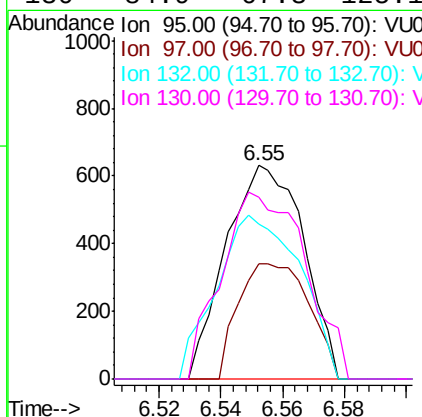
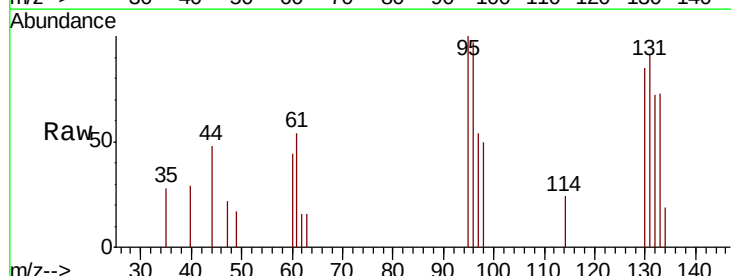
Instrument :
MSVOA_U
ClientSampleId :
VIBLK351

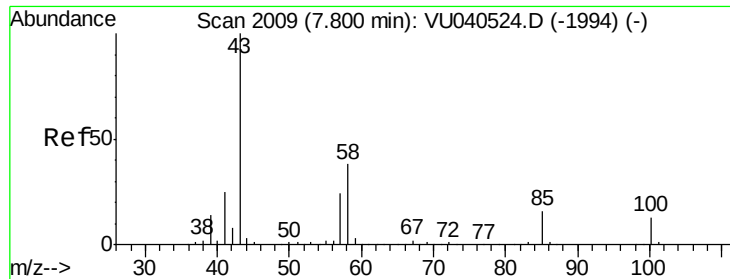
Tot Ion: 96 Resp: 1453
Ion Ratio Lower Upper
96 100
61 112.9 109.6 203.6
98 67.3 43.3 80.3



#34
Trichloroethene
Concen: 0.454 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. -0.00 min
Lab File: VU040527.D
Acq: 06 Oct 2020 14:42

Tgt Ion: 95 Resp: 1100
Ion Ratio Lower Upper
95 100
97 54.0 44.3 82.3
132 72.4 64.2 119.2
130 84.9 67.3 125.1





#40

4-Methyl-2-pentanone

Concen: 1.419 ug/L

RT: 7.80 min Scan# 2009

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

VIBLK351

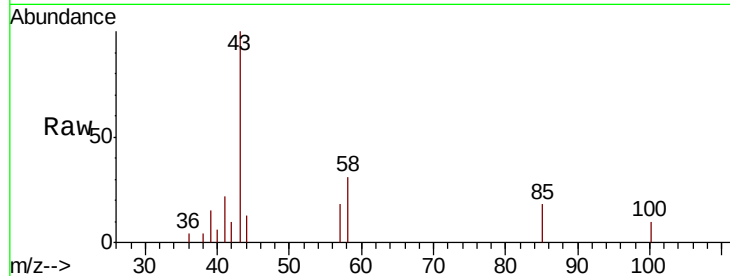
Tot Ion: 43 Resp: 5788

Ion Ratio Lower Upper

43 100

58 30.4 29.7 44.5

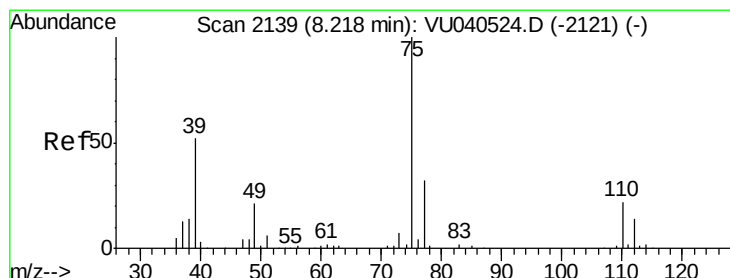
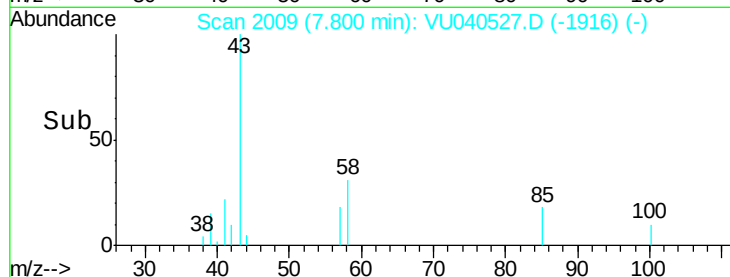
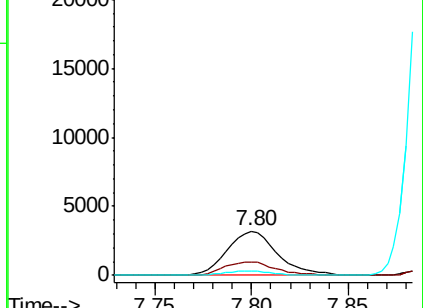
100 8.8 10.5 15.7#



Abundance Ion 43.00 (42.70 to 43.70): VU040527.D (-1916) (-)

Ion 58.00 (57.70 to 58.70): VU040527.D (-1916) (-)

Ion 100.00 (99.70 to 100.70): VU040527.D (-1916) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.804 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.04 min

Lab File: VU040527.D

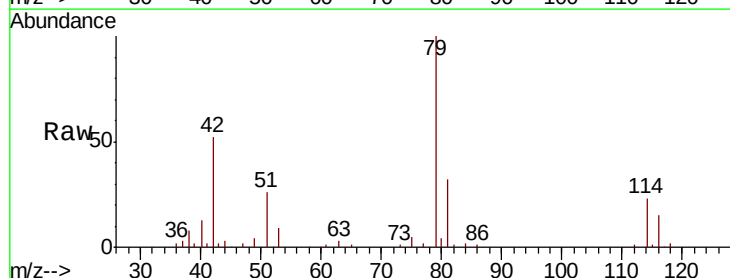
Acq: 06 Oct 2020 14:42

Tgt Ion: 75 Resp: 3067

Ion Ratio Lower Upper

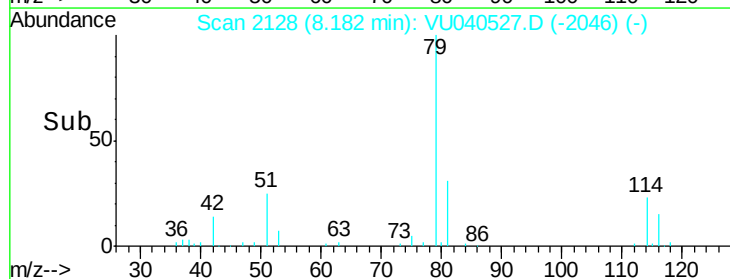
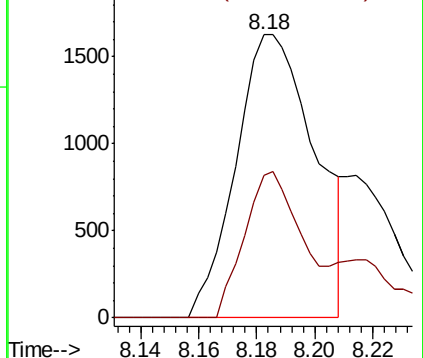
75 100

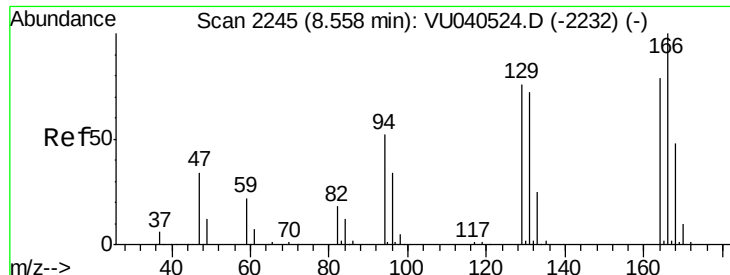
77 50.5 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VU040527.D (-2046) (-)

Ion 77.00 (76.70 to 77.70): VU040527.D (-2046) (-)





#46

Tetrachloroethene

Concen: 0.532 ug/L

RT: 8.56 min Scan# 2246

Delta R.T. 0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

VIBLK351

Tot Ion:164 Resp: 932

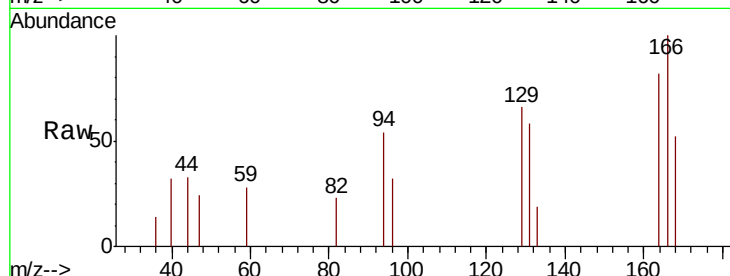
Ion Ratio Lower Upper

164 100

129 80.9 67.4 125.2

131 71.4 63.8 118.6

166 122.3 88.7 164.7

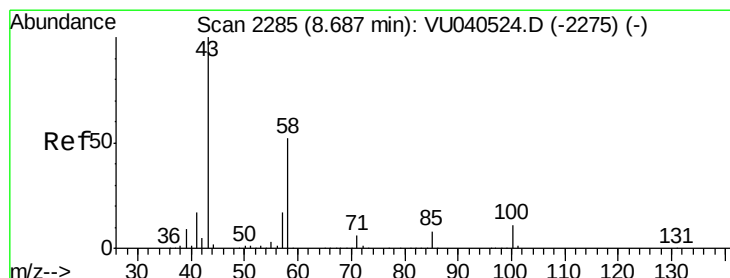
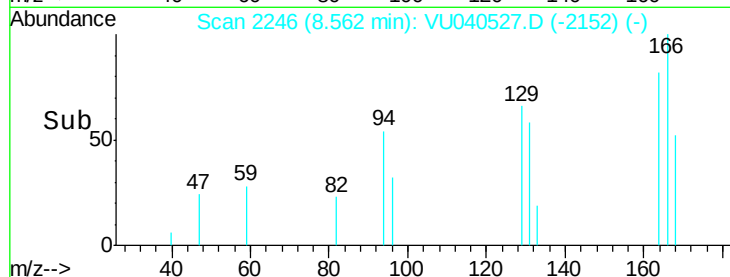
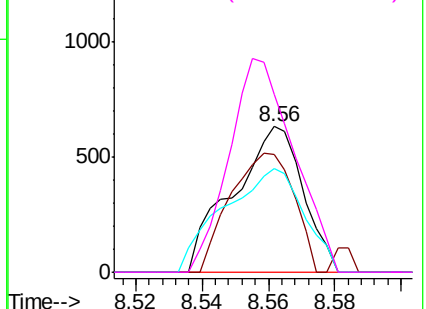


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 3.460 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Tgt Ion: 43 Resp: 11469

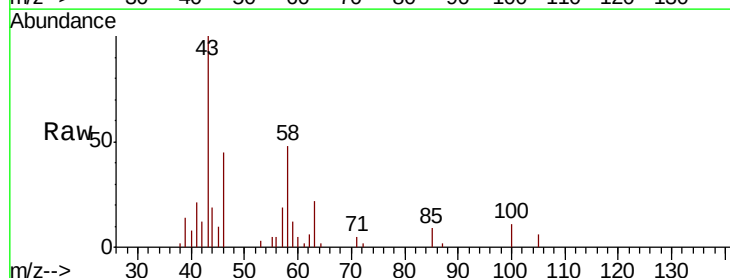
Ion Ratio Lower Upper

43 100

58 41.8 40.6 60.8

57 13.1 14.3 21.5#

100 9.4 8.5 12.7

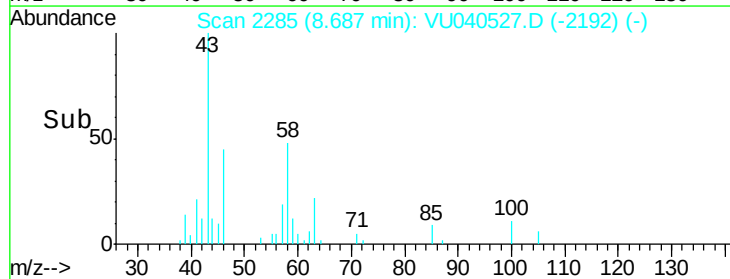
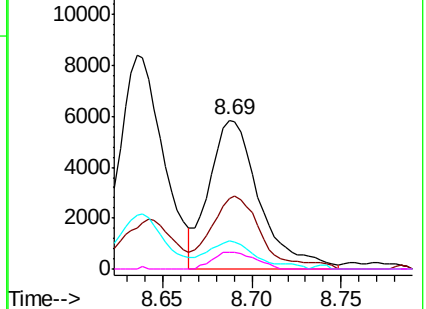


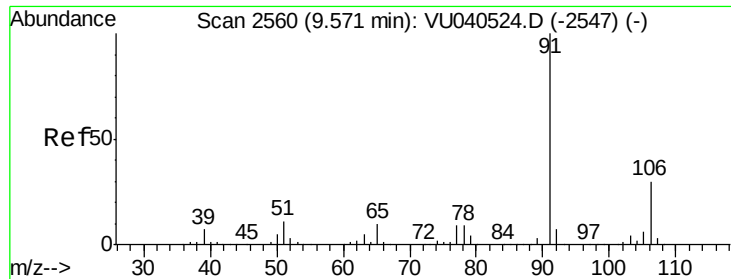
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#52

Ethylbenzene

Concen: 0.395 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

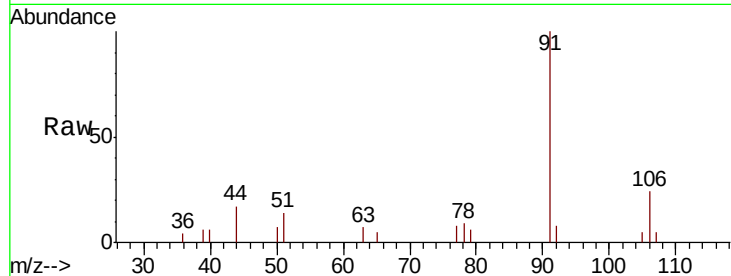
VIBLK351

Tot Ion: 91 Resp: 4211

Ion Ratio Lower Upper

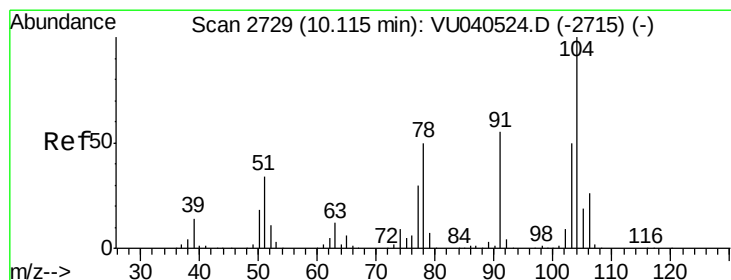
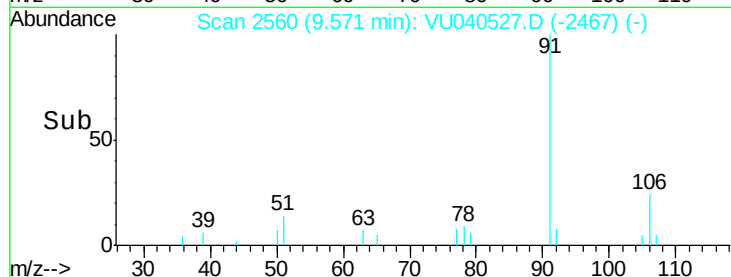
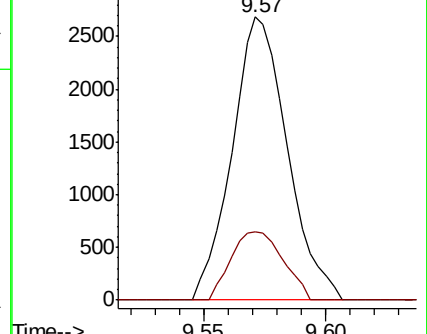
91 100

106 24.2 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040524.D (-2547) (-)

Ion 106.00 (105.70 to 106.70): VU040524.D (-2547) (-)



#55

Styrene

Concen: 0.436 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU040527.D

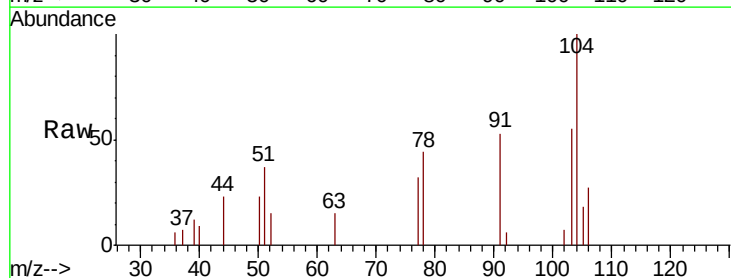
Acq: 06 Oct 2020 14:42

Tgt Ion: 104 Resp: 2871

Ion Ratio Lower Upper

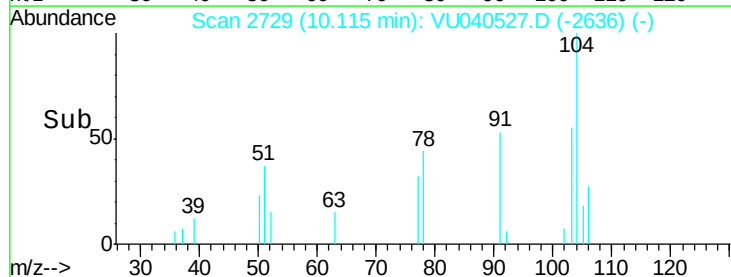
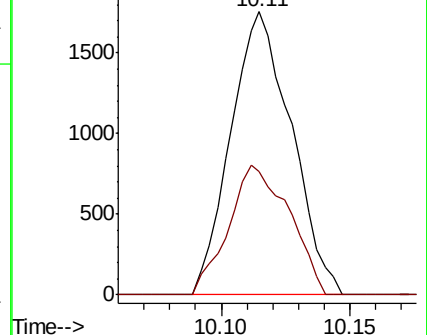
104 100

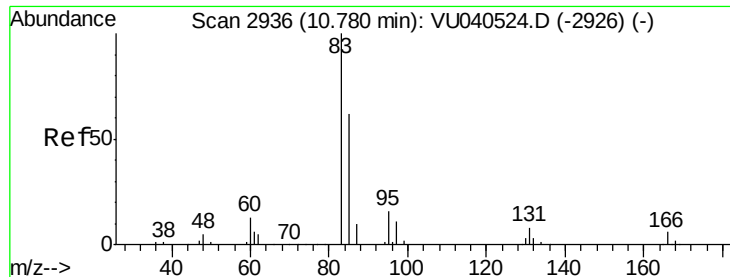
78 43.6 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): VU040524.D (-2715) (-)

Ion 78.00 (77.70 to 78.70): VU040524.D (-2715) (-)

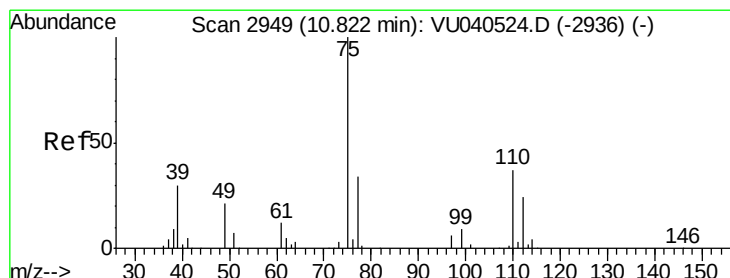
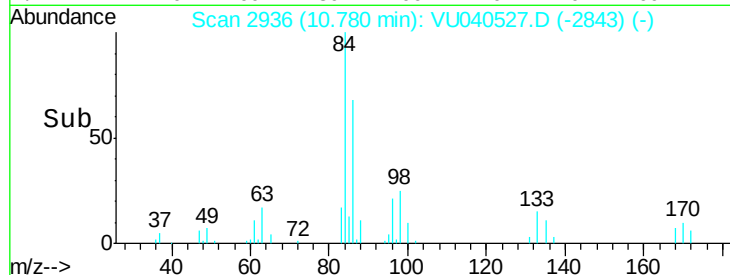
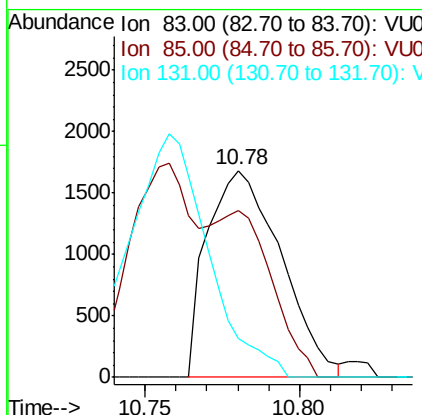
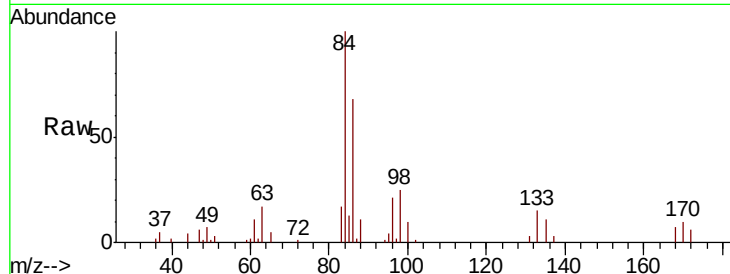




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.683 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. -0.00 min
 Lab File: VU040527.D
 Acq: 06 Oct 2020 14:42

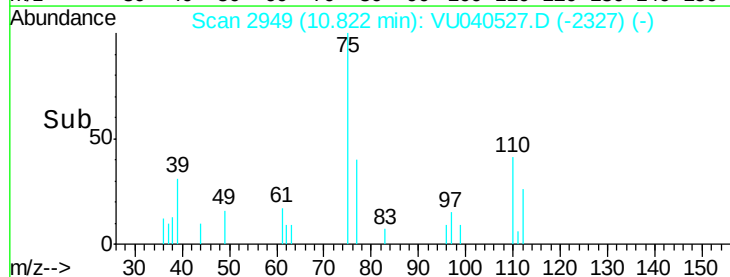
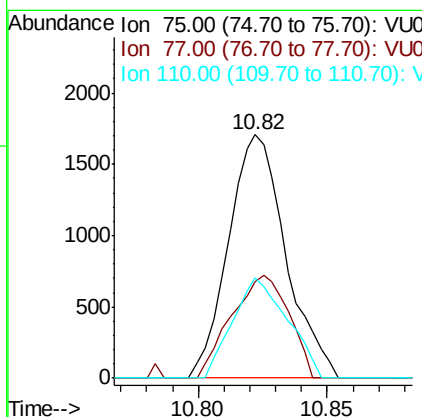
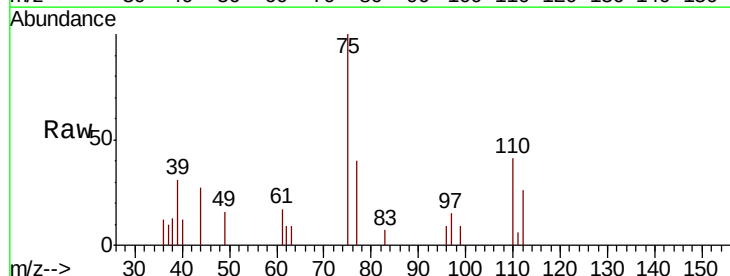
Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK351

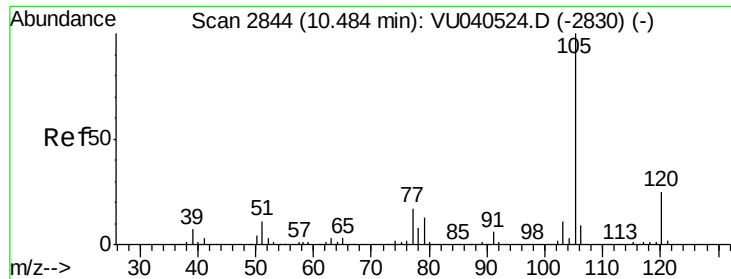
Tot Ion: 83 Resp: 2796
 Ion Ratio Lower Upper
 83 100
 85 80.7 44.2 82.2
 131 18.6 7.1 10.7#



#60
 1,2,3-Trichloropropane
 Concen: 0.874 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU040527.D
 Acq: 06 Oct 2020 14:42

Tgt Ion: 75 Resp: 2635
 Ion Ratio Lower Upper
 75 100
 77 42.5 26.4 39.6#
 110 39.4 30.1 45.1





#61

Isopropylbenzene

Concen: 0.507 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

VIBLK351

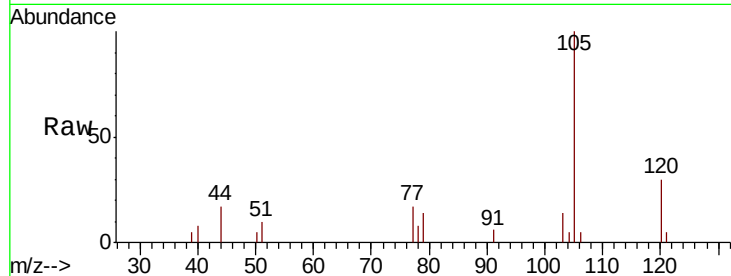
Tot Ion:105 Resp: 4515

Ion Ratio Lower Upper

105 100

120 26.8 20.7 31.1

77 16.5 13.8 20.8

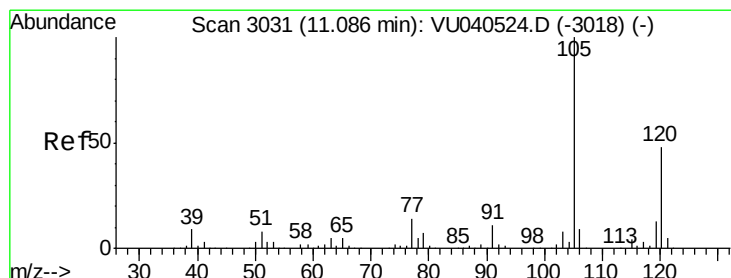
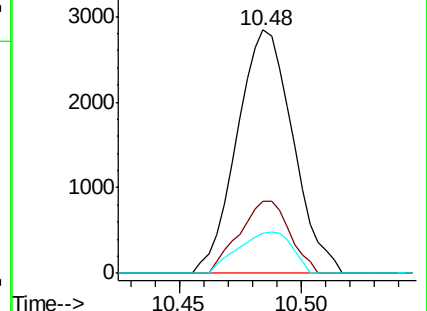
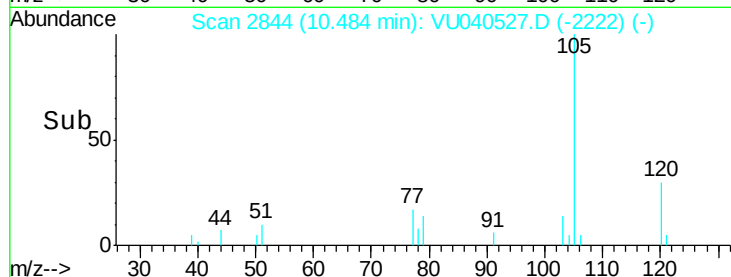


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

Time-->



#62

1,3,5-Trimethylbenzene

Concen: 0.583 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040527.D

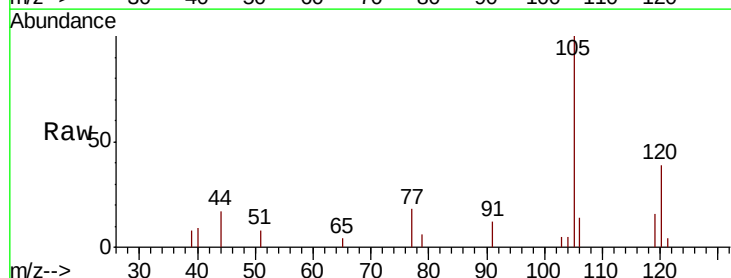
Acq: 06 Oct 2020 14:42

Tgt Ion:105 Resp: 4268

Ion Ratio Lower Upper

105 100

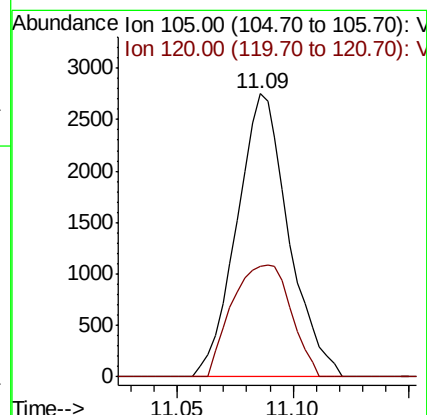
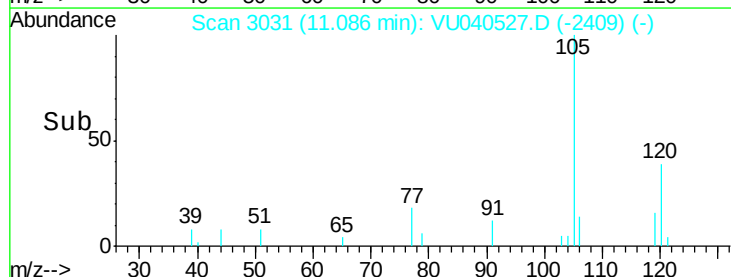
120 44.8 38.6 58.0

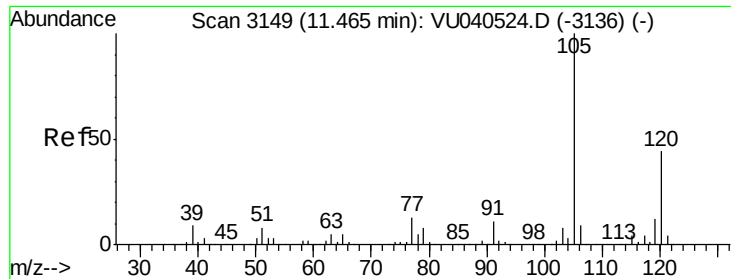


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Time-->





#63

1,2,4-Trimethylbenzene

Concen: 0.630 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

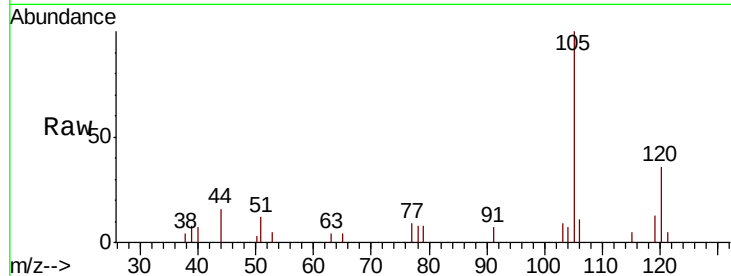
VIBLK351

Tot Ion:105 Resp: 4677

Ion Ratio Lower Upper

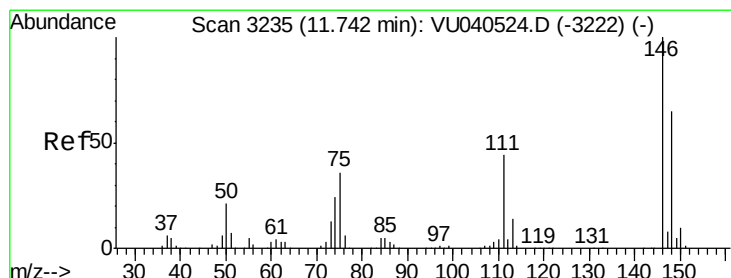
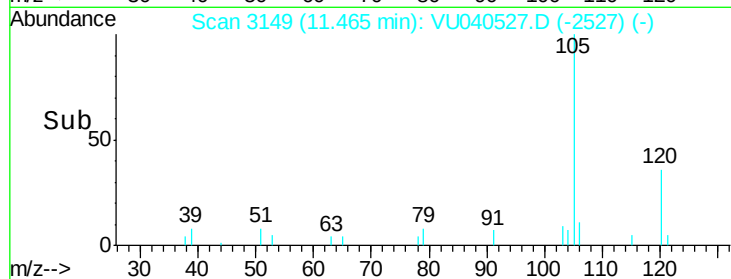
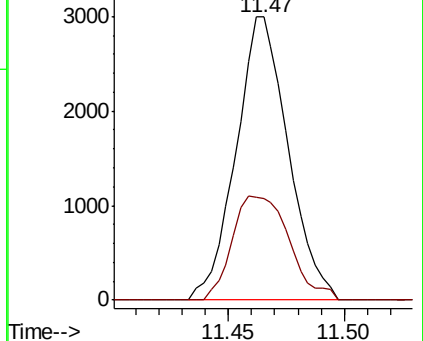
105 100

120 39.0 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#64

1,3-Dichlorobenzene

Concen: 1.217 ug/L

RT: 11.74 min Scan# 3236

Delta R.T. 0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

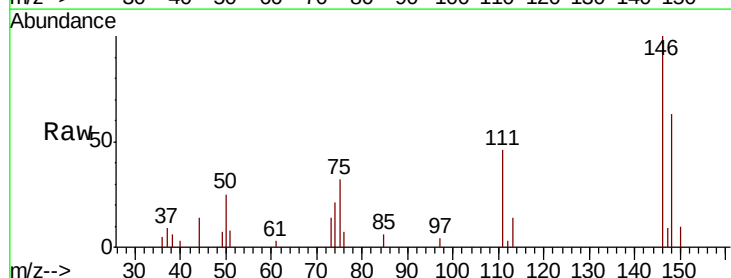
Tgt Ion:146 Resp: 5287

Ion Ratio Lower Upper

146 100

111 46.1 30.8 57.2

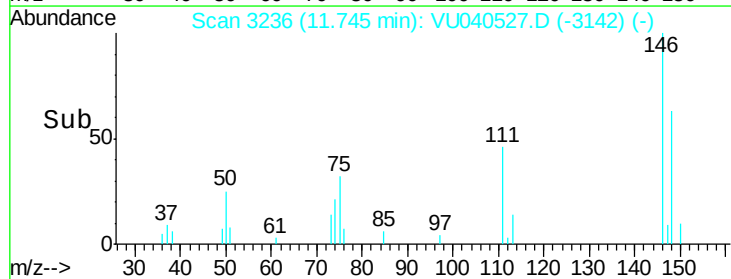
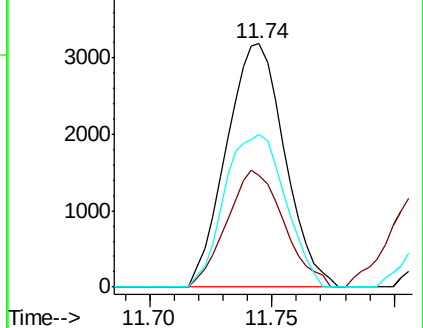
148 62.9 45.4 84.2

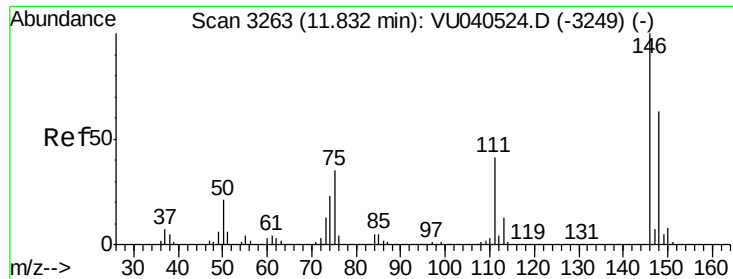


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

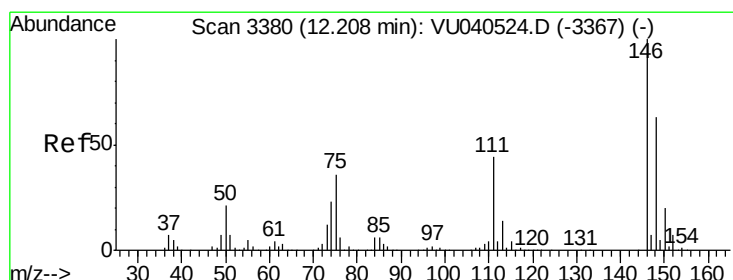
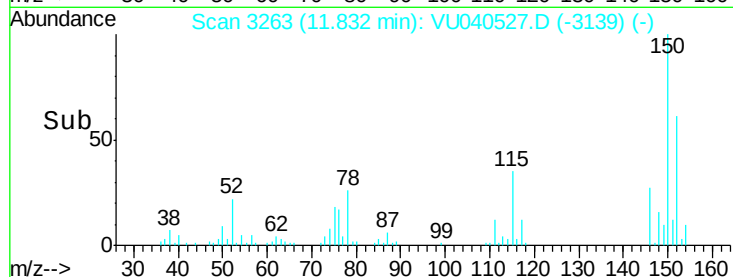
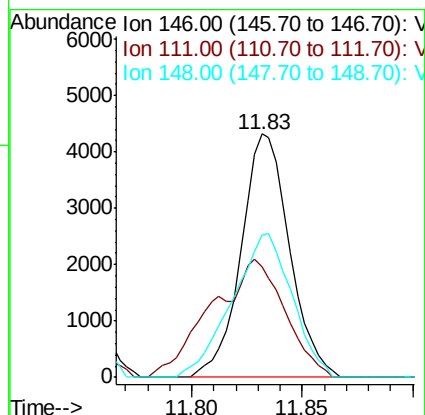
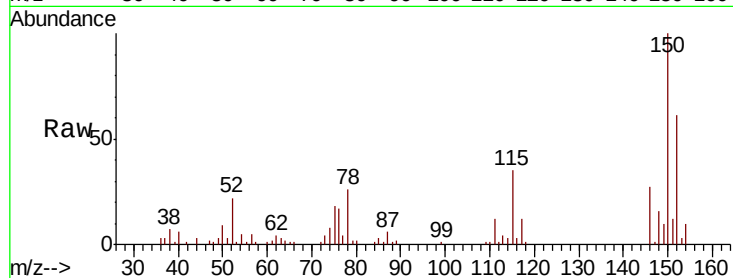




#65
 1,4-Dichlorobenzene
 Concen: 1.440 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040527.D
 Acq: 06 Oct 2020 14:42

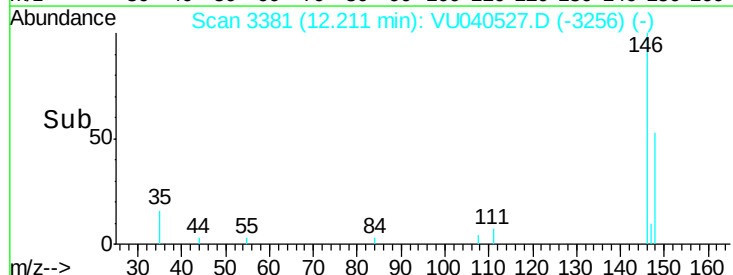
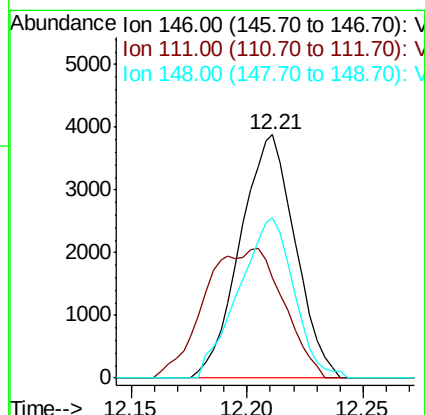
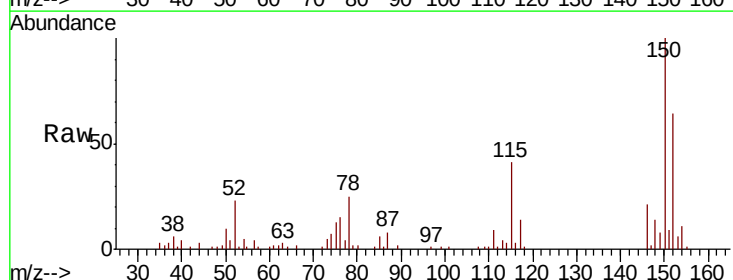
Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK351

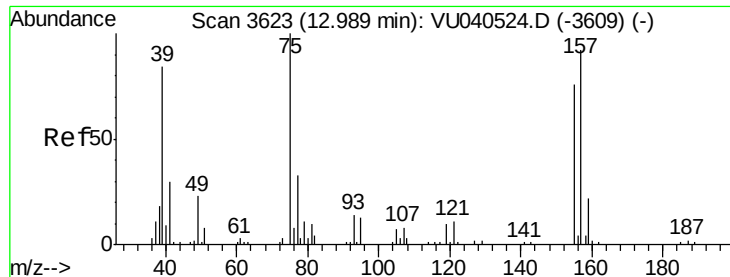
Tot Ion:146 Resp: 6573
 Ion Ratio Lower Upper
 146 100
 111 45.4 28.7 53.3
 148 58.8 44.1 81.9



#67
 1,2-Dichlorobenzene
 Concen: 1.467 ug/L
 RT: 12.21 min Scan# 3381
 Delta R.T. 0.00 min
 Lab File: VU040527.D
 Acq: 06 Oct 2020 14:42

Tgt Ion:146 Resp: 6386
 Ion Ratio Lower Upper
 146 100
 111 41.3 35.7 53.5
 148 65.9 50.6 75.8

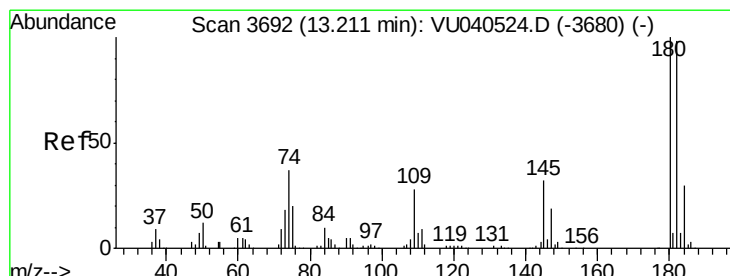
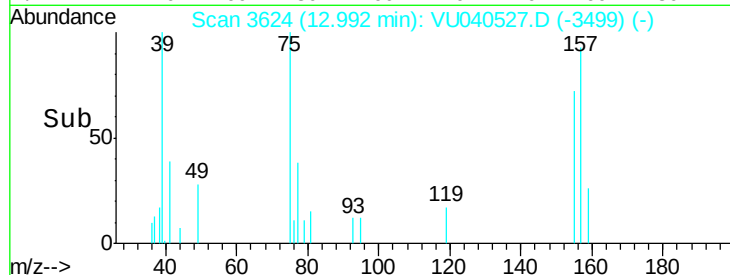
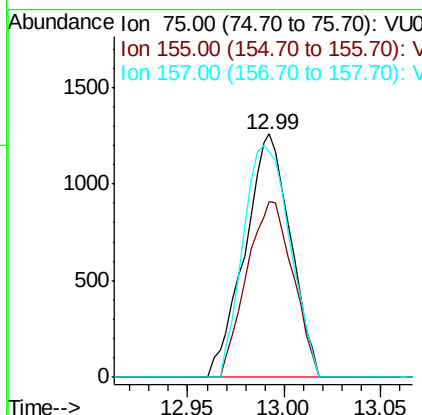
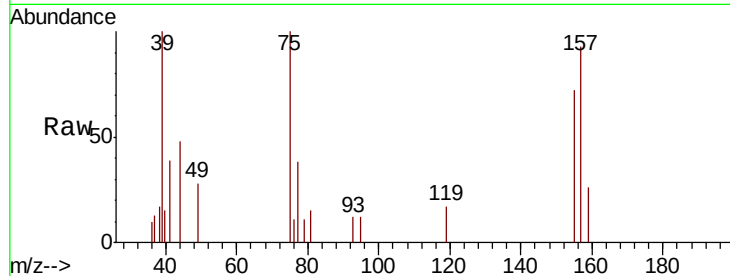




#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.443 ug/L
 RT: 12.99 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VU040527.D
 Acq: 06 Oct 2020 14:42

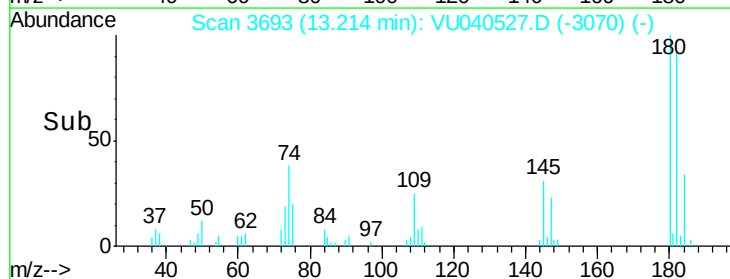
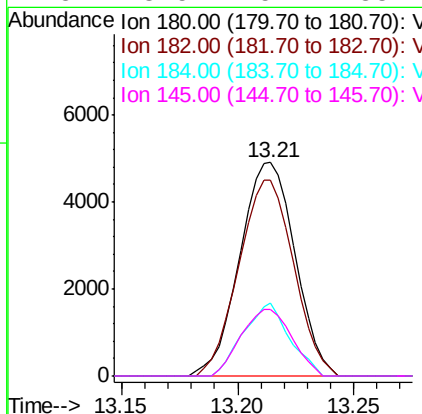
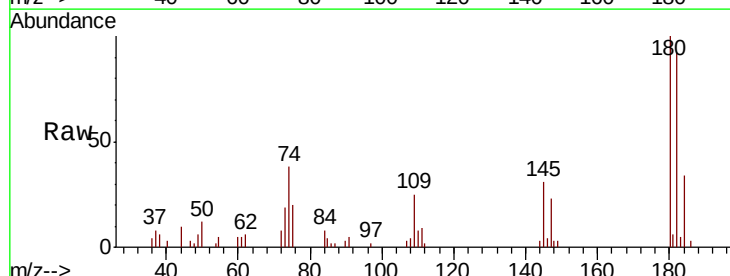
Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK351

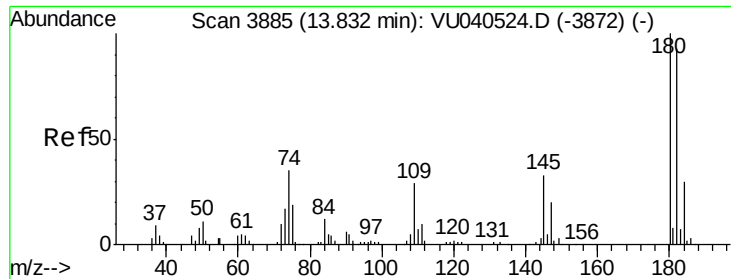
Tot Ion: 75 Resp: 2069
 Ion Ratio Lower Upper
 75 100
 155 72.4 61.0 91.6
 157 92.9 73.5 110.3



#69
 1,3,5-Trichlorobenzene
 Concen: 2.848 ug/L
 RT: 13.21 min Scan# 3693
 Delta R.T. 0.00 min
 Lab File: VU040527.D
 Acq: 06 Oct 2020 14:42

Tgt Ion: 180 Resp: 8109
 Ion Ratio Lower Upper
 180 100
 182 91.0 76.9 115.3
 184 28.6 24.2 36.2
 145 28.5 25.4 38.2





#70

1,2,4-trichlorobenzene

Concen: 4.906 ug/L

RT: 13.83 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampled :

VIBLK351

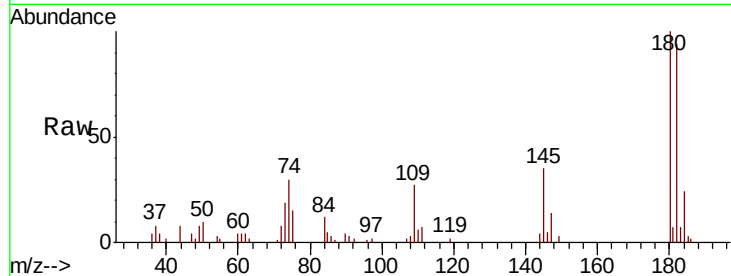
Tot Ion:180 Resp: 12107

Ion Ratio Lower Upper

180 100

182 98.0 75.0 112.6

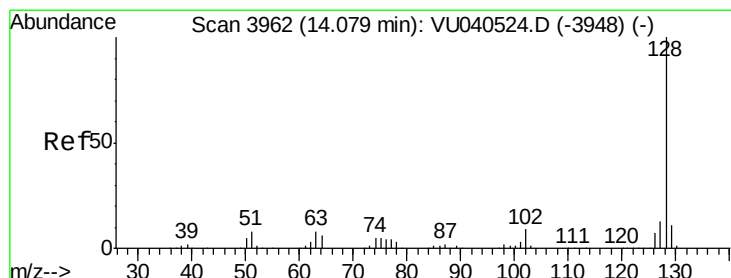
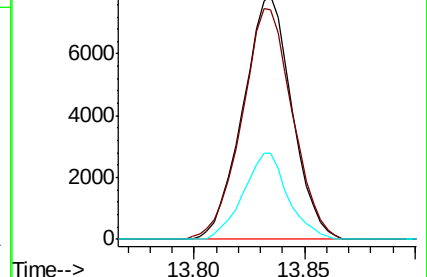
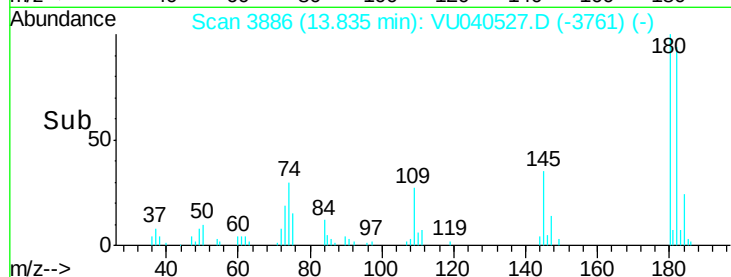
145 32.5 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#71

Naphthalene

Concen: 7.963 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

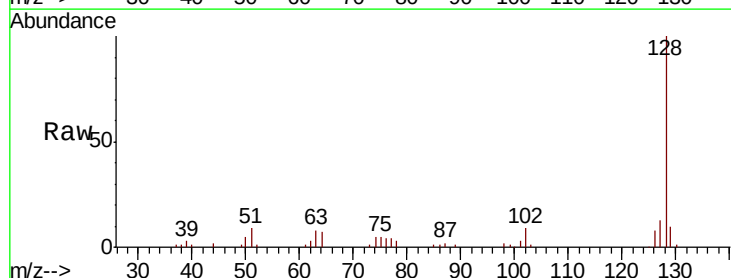
Tgt Ion:128 Resp: 60736

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

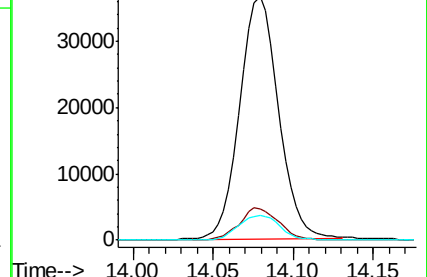
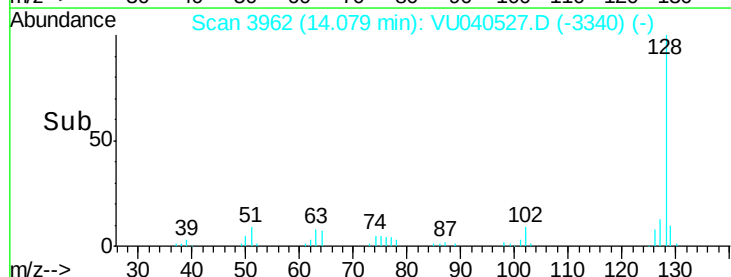
129 10.7 8.6 13.0

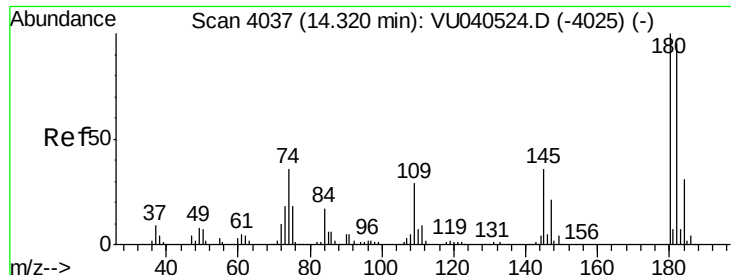


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#72

1,2,3-Trichlorobenzene

Concen: 6.315 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040527.D

Acq: 06 Oct 2020 14:42

Instrument :

MSVOA_U

ClientSampleId :

VIBLK351

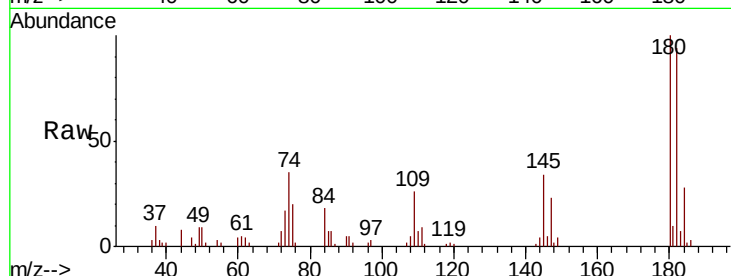
Tot Ion:180 Resp: 15467

Ion Ratio Lower Upper

180 100

182 96.5 77.7 116.5

145 37.3 28.4 42.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

