

Data Path : W:\HPCHEM1\MSVOA_U\DATA\VU052218\
 Data File : VU024010.D
 Acq On : 22 May 2018 12:33
 Operator : MD/SY
 Sample : J3032-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 02:52:20 2018
 Quant Method : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM051218WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 23 02:51:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	282740	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	288269	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	146376	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	97017	36.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.86%
7) Chloroethane-d5	1.66	69	79176	38.24	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.48%
11) 1,1-Dichloroethene-d2	2.27	63	166405	34.52	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.04%
21) 2-Butanone-d5	4.18	46	189152	103.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.46%
24) Chloroform-d	4.65	84	189698	47.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.31	65	130398	49.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.84%
32) Benzene-d6	5.34	84	378446	44.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.94%
36) 1,2-Dichloropropane-d6	6.33	67	132466	46.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.20%
41) Toluene-d8	7.57	98	348262	44.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.84%
43) trans-1,3-Dichloropropene-	7.85	79	57226	47.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.74%
47) 2-Hexanone-d5	8.31	63	140680	107.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.38%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	201936	50.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.90%
64) 1,2-Dichlorobenzene-d4	11.86	152	153753	48.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.26%

Target Compounds

						Qvalue
3) Chloromethane	1.33	50	56473	21.00	ug/L	99
5) Vinyl chloride	1.40	62	39751	12.76	ug/L	95
6) Bromomethane	1.61	94	6833	5.50	ug/L	96
12) 1,1-Dichloroethene	2.28	96	36309	17.19	ug/L	# 66
13) Acetone	2.34	43	37804	20.53	ug/L	44
15) Methyl Acetate	2.62	43	5479	1.77	ug/L	94
16) Methylene chloride	2.70	84	51071	20.33	ug/L	96
22) 2-Butanone	4.27	43	86603	38.64	ug/L	98
25) Chloroform	4.68	83	87481	19.55	ug/L	98
27) 1,2-Dichloroethane	5.41	62	72376	21.27	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	67950	18.87	ug/L	99
31) Carbon tetrachloride	5.14	117	52241	16.84	ug/L	99
33) Benzene	5.39	78	188879	19.92	ug/L	100
34) Trichloroethene	6.19	95	47277	19.54	ug/L	96
37) 1,2-Dichloropropane	6.44	63	51748	18.44	ug/L	99
38) Bromodichloromethane	6.76	83	55538	16.70	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	55430	14.96	ug/L	99

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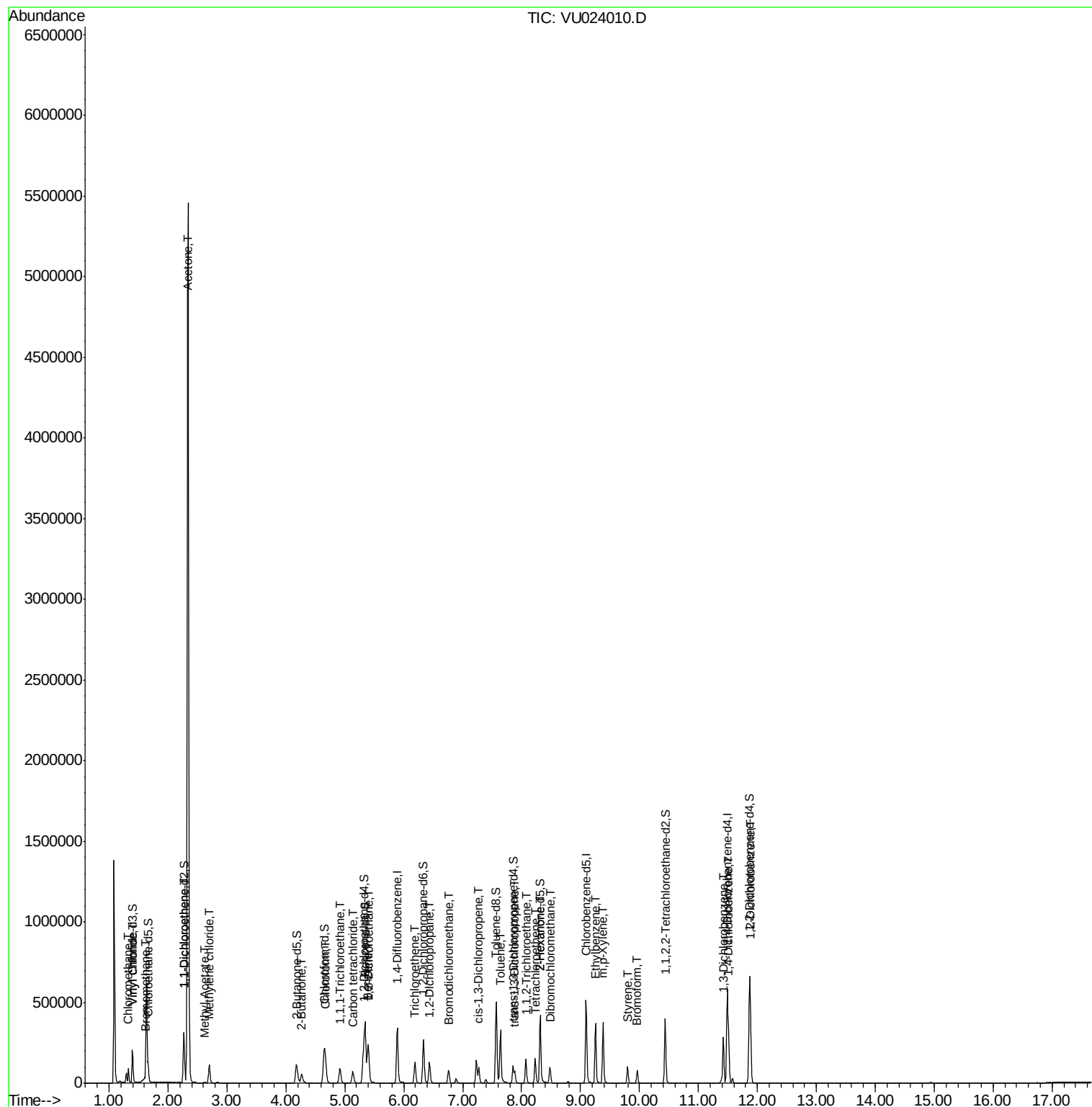
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

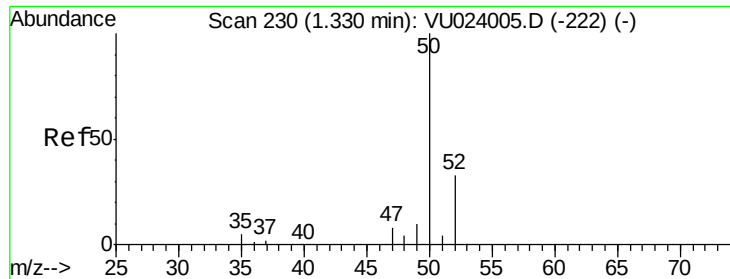
42) Toluene	7.64	91	245226	24.81	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	40296	11.81	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	46599	18.48	ug/L	98
46) Tetrachloroethene	8.23	164	36085	18.25	ug/L	98
48) 2-Hexanone	8.32	43	17071	5.32	ug/L #	68
49) Dibromochloromethane	8.48	129	50929	19.00	ug/L	98
52) Ethylbenzene	9.25	91	254301	23.87	ug/L	100
53) m,p-Xylene	9.38	106	98753	24.46	ug/L	98
55) Styrene	9.80	104	49235	7.18	ug/L	99
61) Bromoform	9.96	173	34986	16.91	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	115074	22.57	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	99503	18.42	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	129749	23.60	ug/L	98

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

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#3

Chloromethane

Concen: 21.00 ug/L

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024010.D

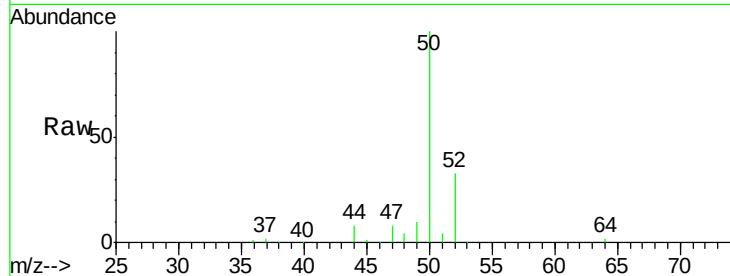
Acq: 22 May 2018 12:33

Tgt Ion: 50 Resp: 56473

Ion Ratio Lower Upper

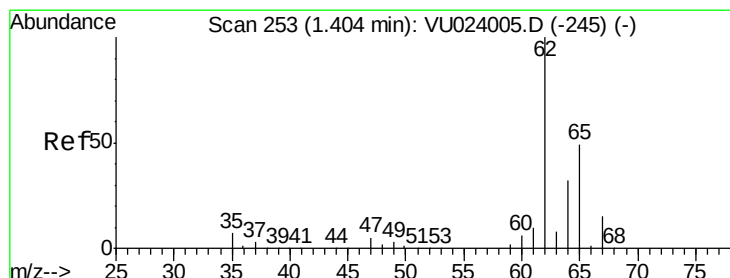
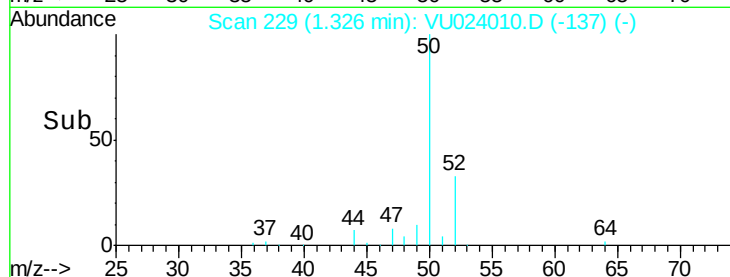
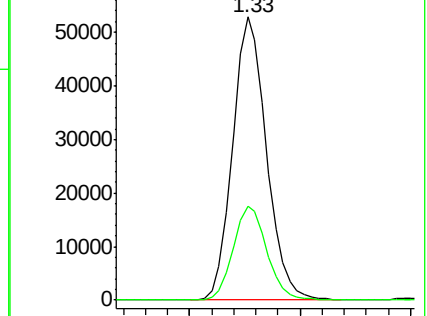
50 100

52 33.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#5

Vinyl chloride

Concen: 12.76 ug/L

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU024010.D

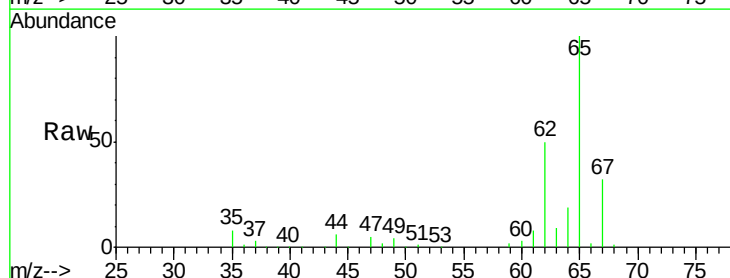
Acq: 22 May 2018 12:33

Tgt Ion: 62 Resp: 39751

Ion Ratio Lower Upper

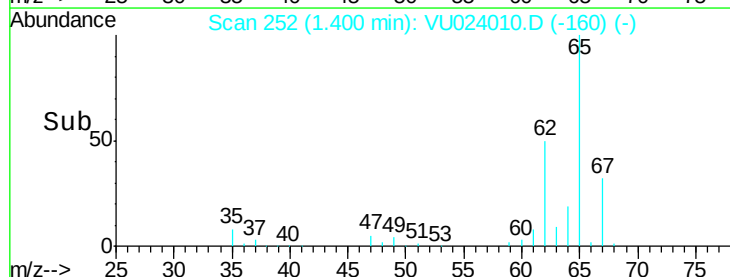
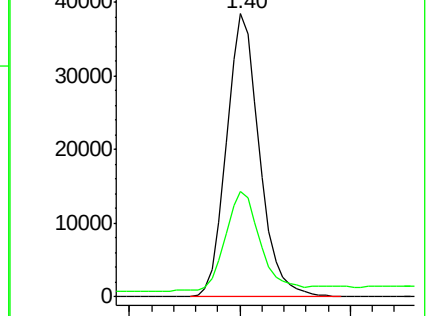
62 100

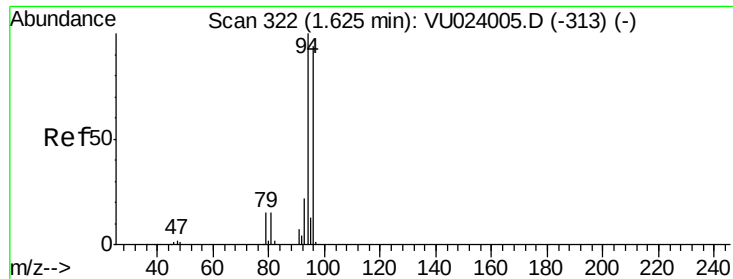
64 37.4 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#6

Bromomethane

Concen: 5.50 ug/L

RT: 1.61 min Scan# 316

Delta R.T. -0.02 min

Lab File: VU024010.D

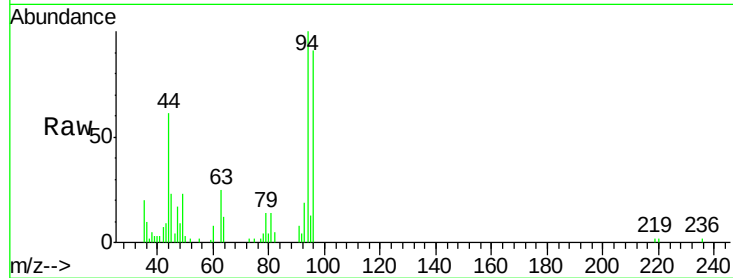
Acq: 22 May 2018 12:33

Tgt Ion: 94 Resp: 6833

Ion Ratio Lower Upper

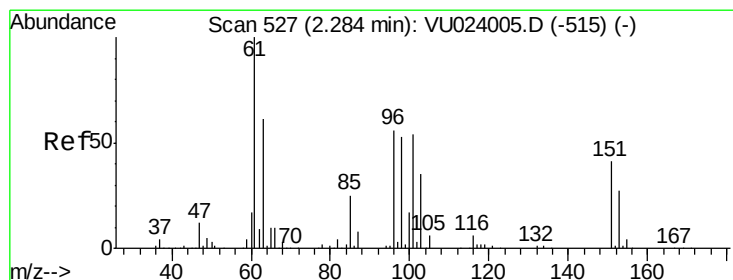
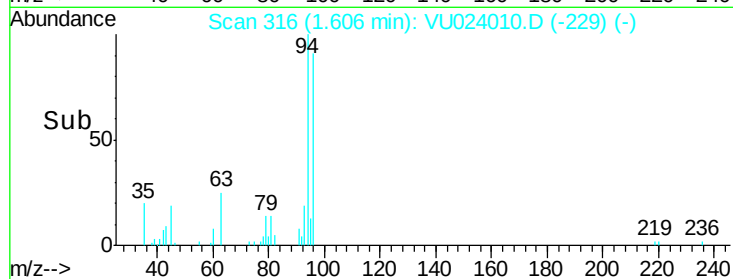
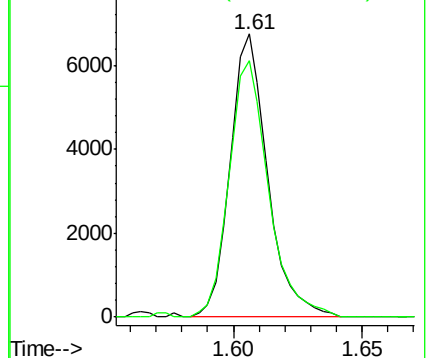
94 100

96 90.8 66.6 123.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#12

1,1-Dichloroethene

Concen: 17.19 ug/L

RT: 2.28 min Scan# 525

Delta R.T. -0.01 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

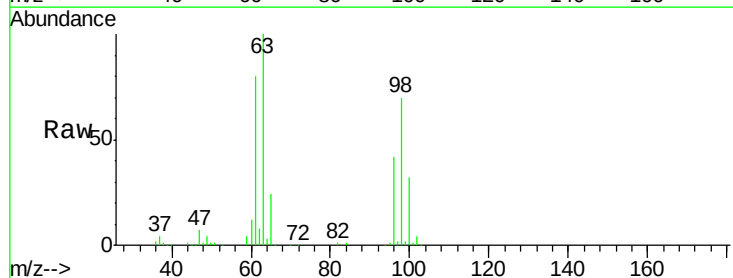
Tgt Ion: 96 Resp: 36309

Ion Ratio Lower Upper

96 100

61 191.8 129.5 240.5

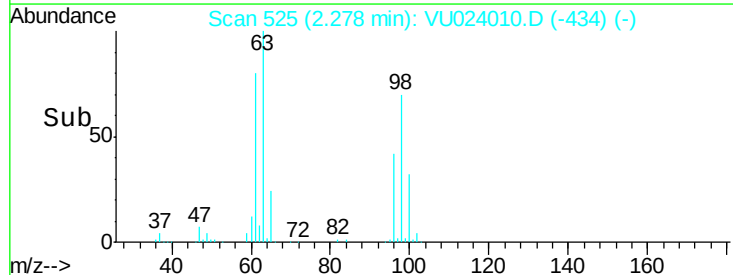
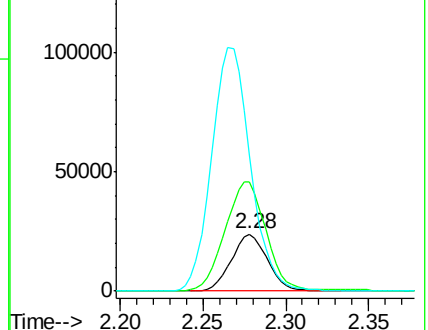
63 240.5 106.9 198.5#

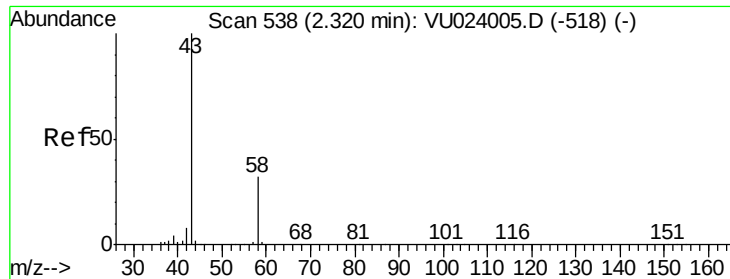


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 20.53 ug/L

RT: 2.34 min Scan# 544

Delta R.T. 0.02 min

Lab File: VU024010.D

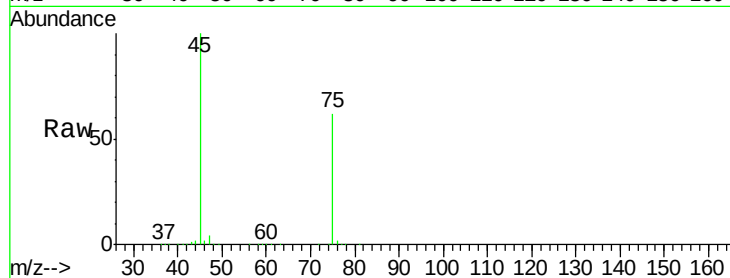
Acq: 22 May 2018 12:33

Tgt Ion: 43 Resp: 37804

Ion Ratio Lower Upper

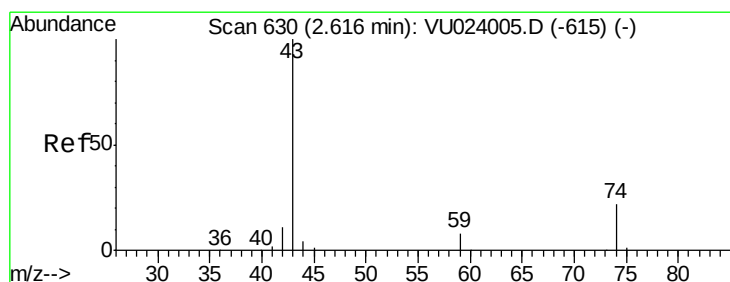
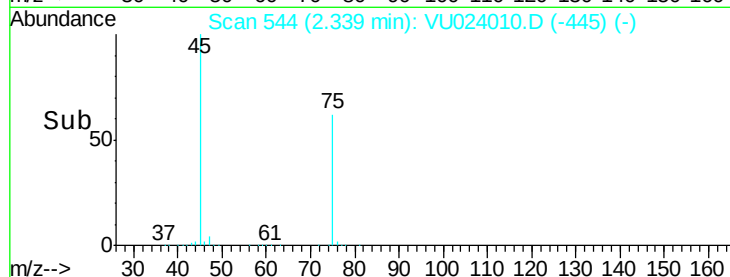
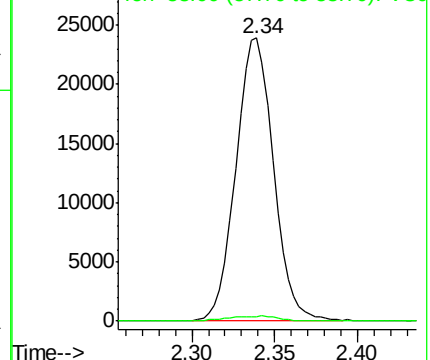
43 100

58 1.3 0.0 65.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#15

Methyl Acetate

Concen: 1.77 ug/L

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU024010.D

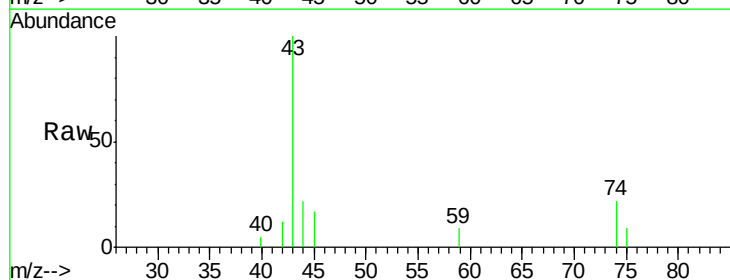
Acq: 22 May 2018 12:33

Tgt Ion: 43 Resp: 5479

Ion Ratio Lower Upper

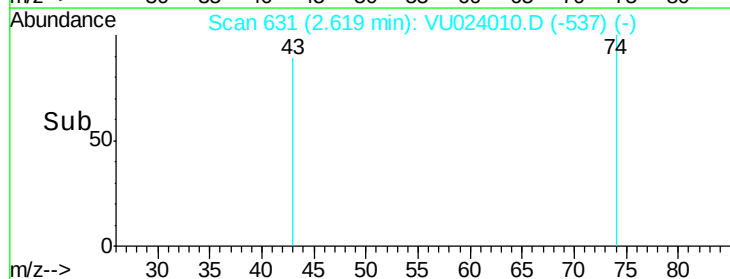
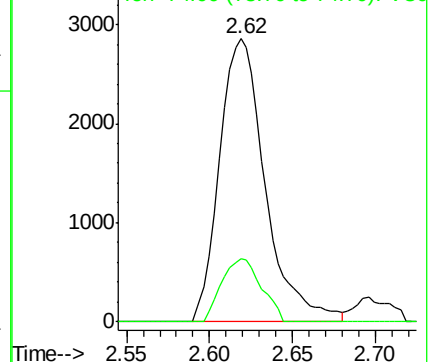
43 100

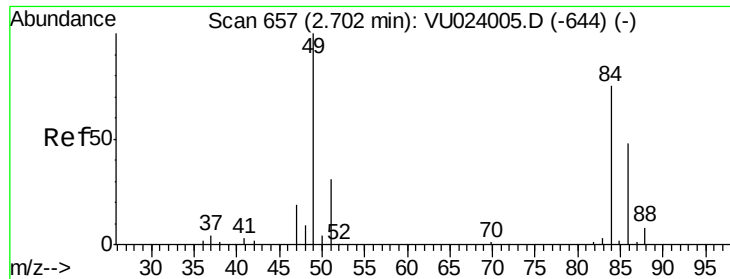
74 19.3 17.8 26.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

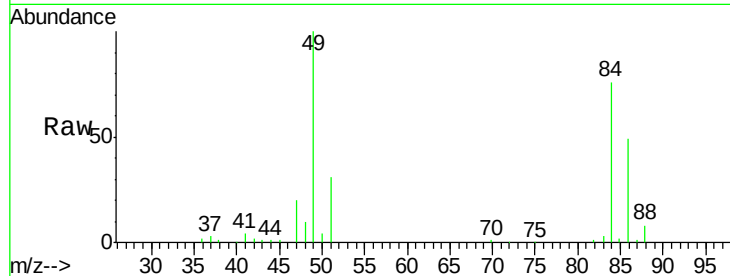
Ion 74.00 (73.70 to 74.70): VU0



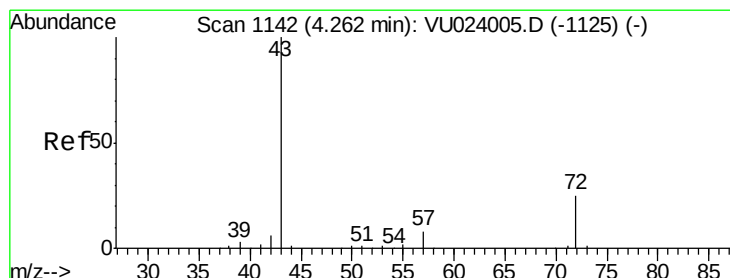
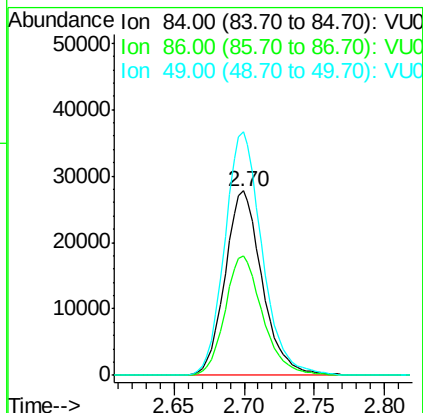
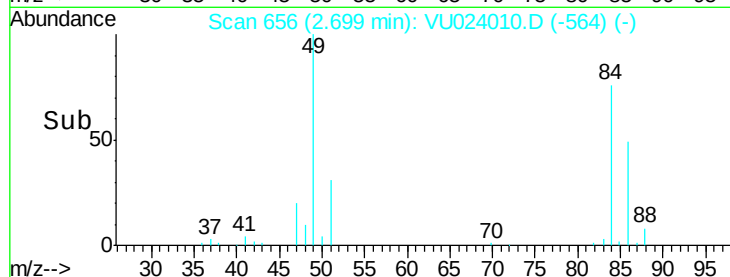


#16
Methylene chloride
Concen: 20.33 ug/L
RT: 2.70 min Scan# 656
Delta R.T. -0.00 min
Lab File: VU024010.D
Acq: 22 May 2018 12:33

Tgt Ion: 84 Resp: 51071
Ion Ratio Lower Upper
84 100
86 64.6 44.6 82.8
49 132.1 87.6 162.6

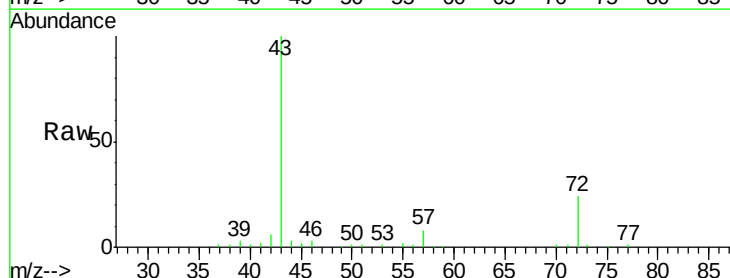


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

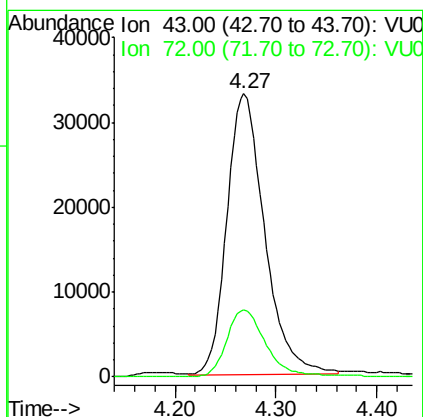
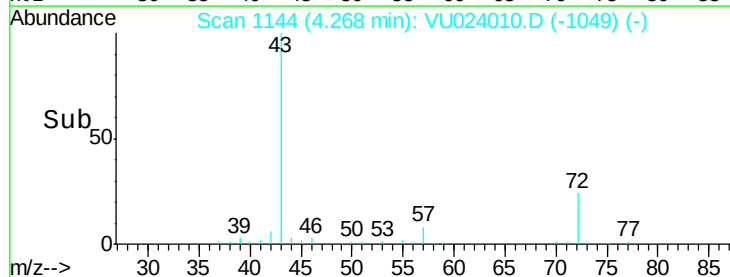


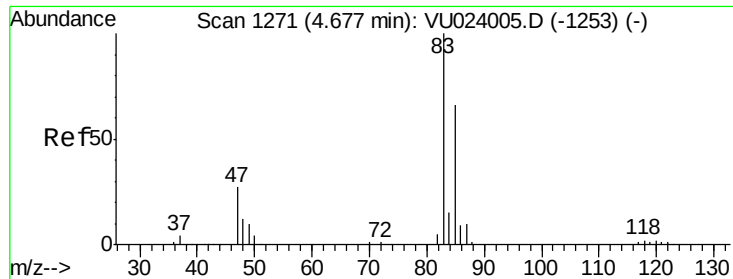
#22
2-Butanone
Concen: 38.64 ug/L
RT: 4.27 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VU024010.D
Acq: 22 May 2018 12:33

Tgt Ion: 43 Resp: 86603
Ion Ratio Lower Upper
43 100
72 24.6 12.8 38.4



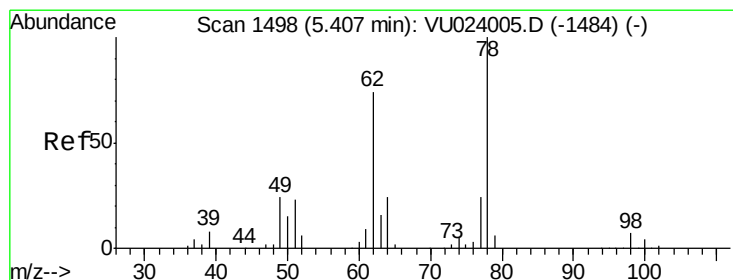
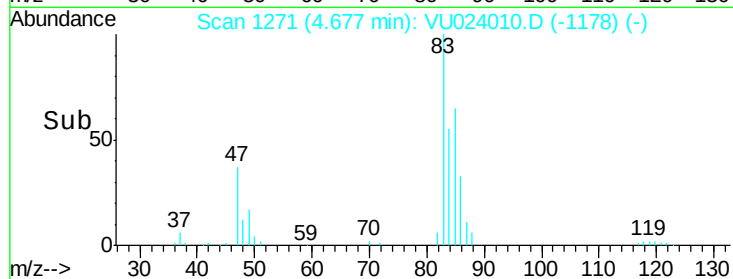
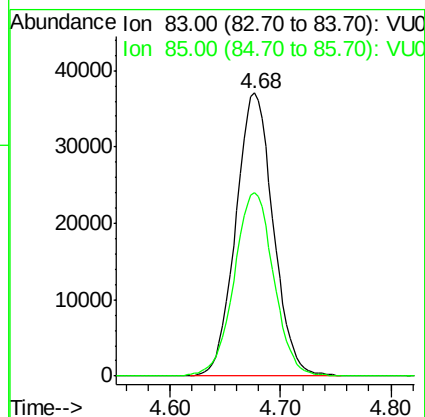
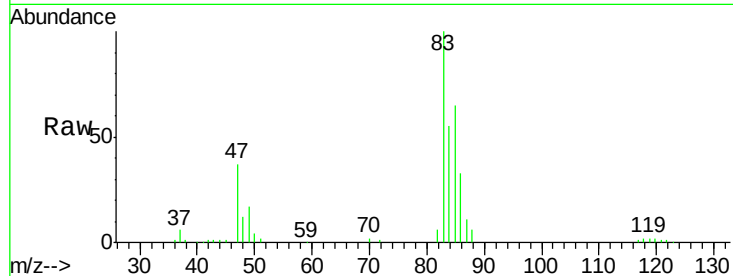
Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0





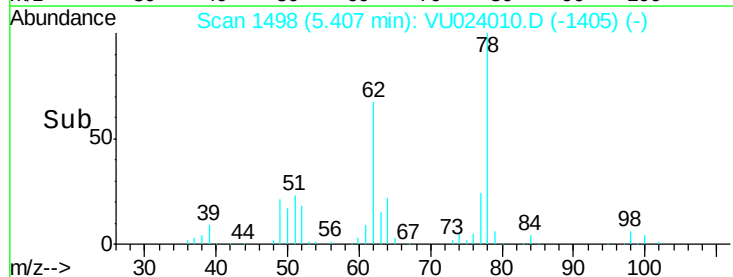
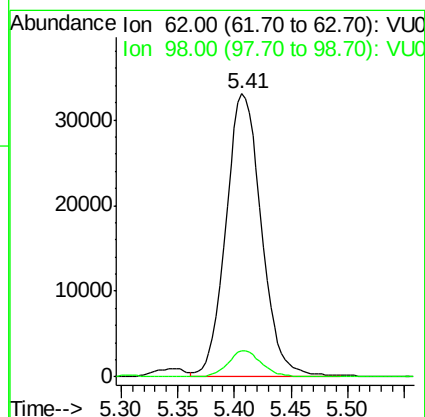
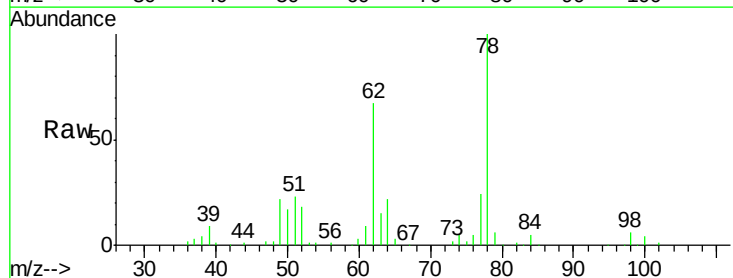
#25
Chloroform
Concen: 19.55 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU024010.D
Acq: 22 May 2018 12:33

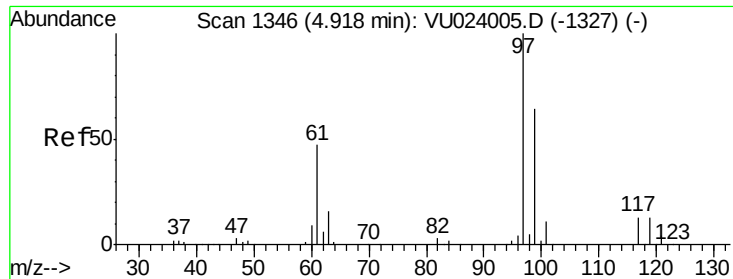
Tgt Ion: 83 Resp: 87481
Ion Ratio Lower Upper
83 100
85 64.9 44.4 82.5



#27
1,2-Dichloroethane
Concen: 21.27 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU024010.D
Acq: 22 May 2018 12:33

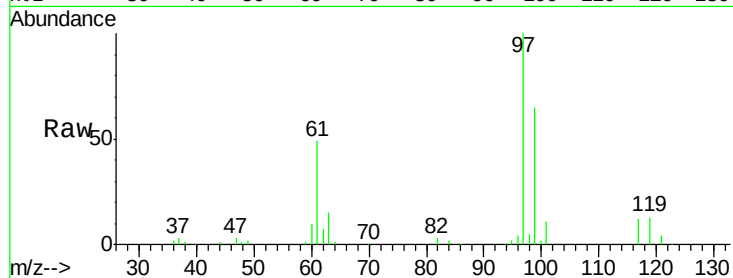
Tgt Ion: 62 Resp: 72376
Ion Ratio Lower Upper
62 100
98 9.2 7.5 11.3



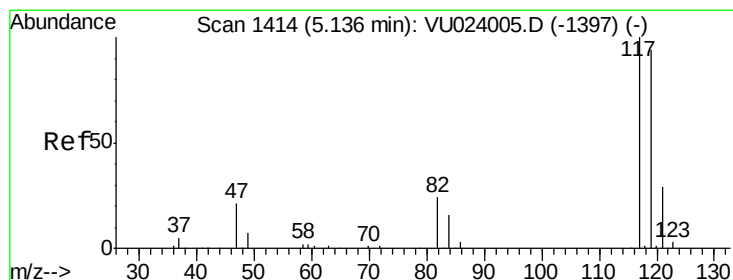
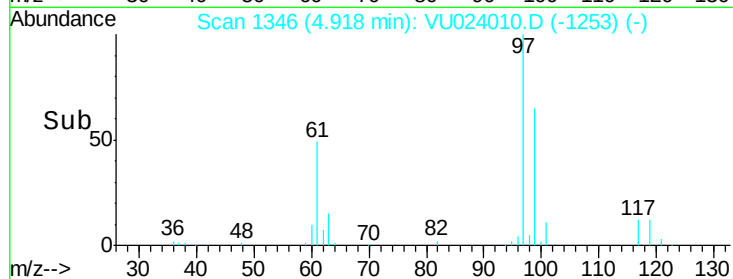
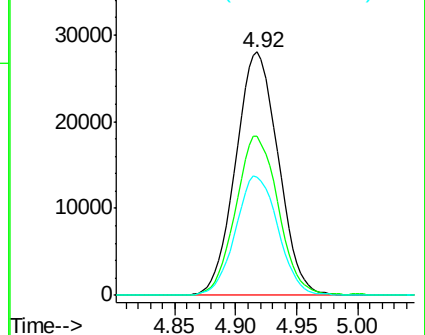


#30
 1,1,1-Trichloroethane
 Concen: 18.87 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU024010.D
 Acq: 22 May 2018 12:33

Tgt Ion: 97 Resp: 67950
 Ion Ratio Lower Upper
 97 100
 99 65.4 52.0 78.0
 61 48.8 37.6 56.4

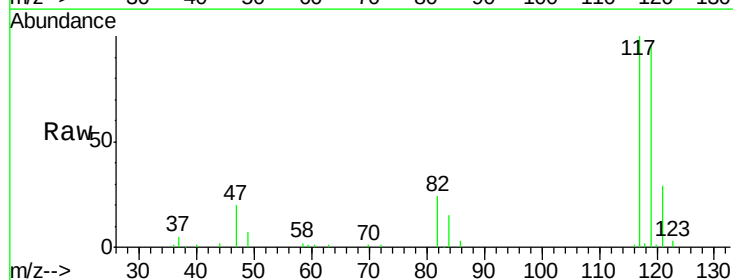


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

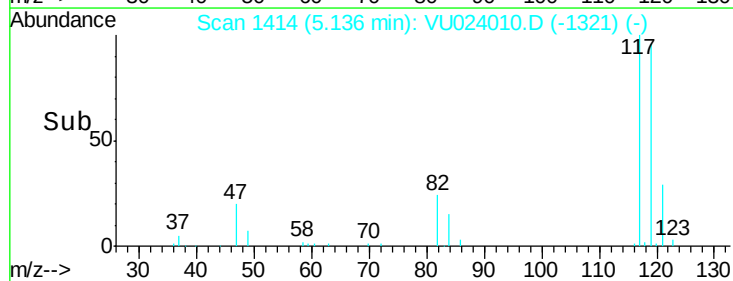
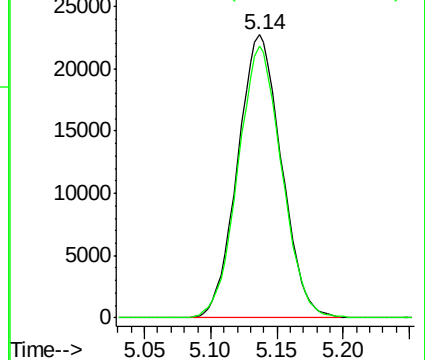


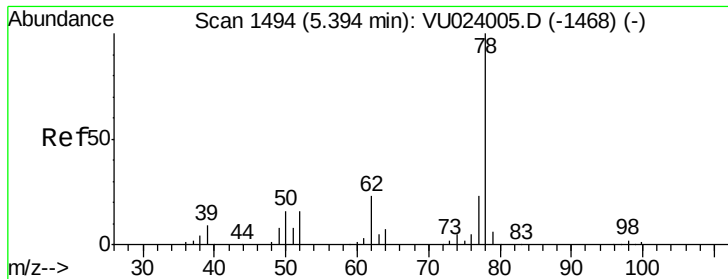
#31
 Carbon tetrachloride
 Concen: 16.84 ug/L
 RT: 5.14 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: VU024010.D
 Acq: 22 May 2018 12:33

Tgt Ion: 117 Resp: 52241
 Ion Ratio Lower Upper
 117 100
 119 95.3 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#33

Benzene

Concen: 19.92 ug/L

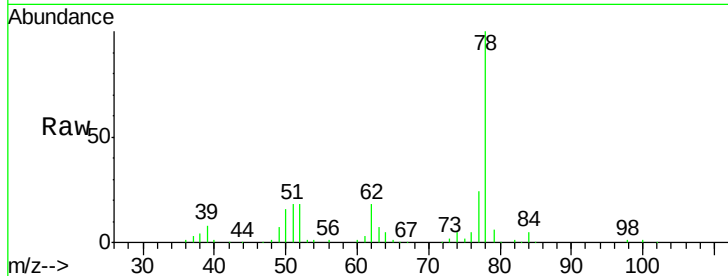
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

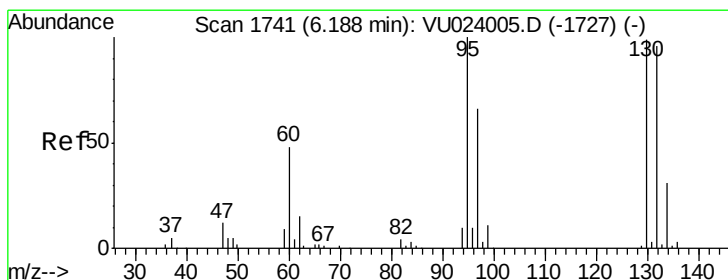
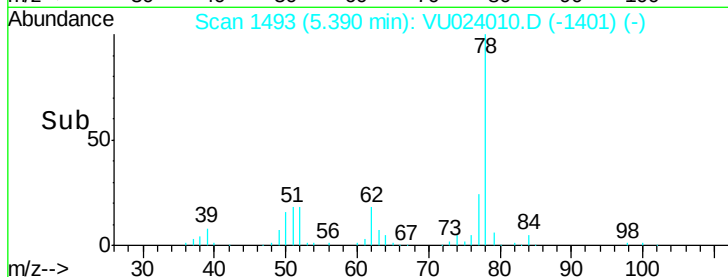
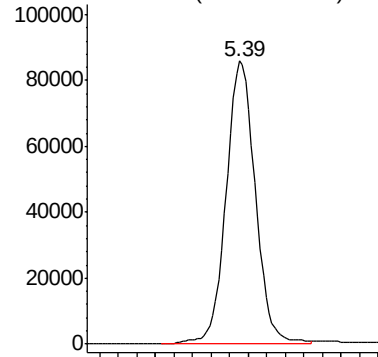
Lab File: VU024010.D

Acq: 22 May 2018 12:33

Tgt Ion: 78 Resp: 188879



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 19.54 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

Tgt Ion: 95 Resp: 47277

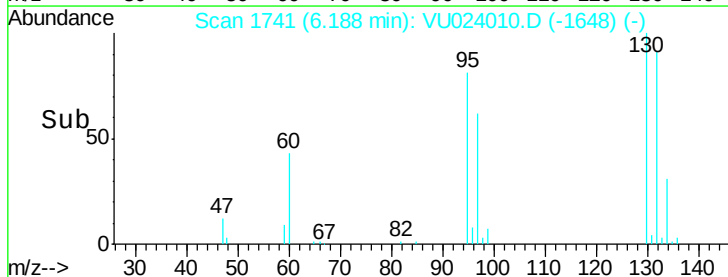
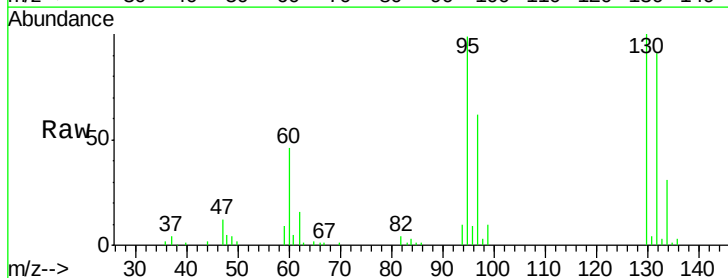
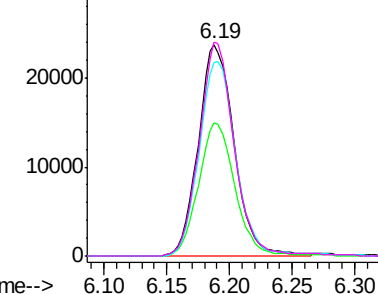
Ion	Ratio	Lower	Upper
95	100		
97	63.0	45.4	84.2
132	91.7	69.0	128.1
130	101.1	71.7	133.1

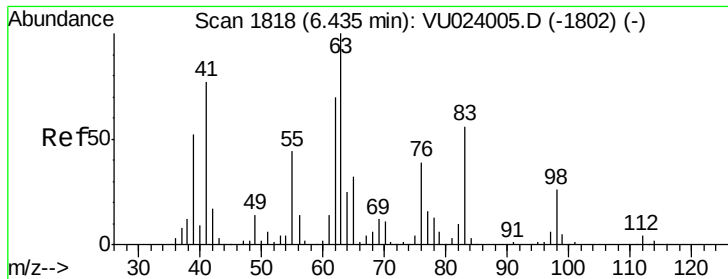
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





#37

1,2-Dichloropropane

Concen: 18.44 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU024010.D

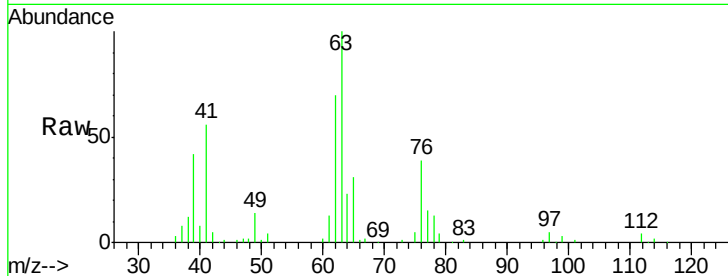
Acq: 22 May 2018 12:33

Tgt Ion: 63 Resp: 51748

Ion Ratio Lower Upper

63 100

112 3.7 3.2 4.8

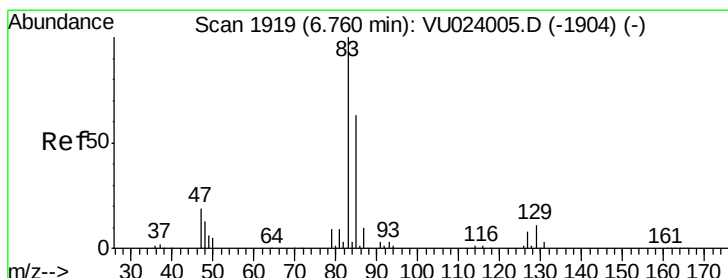
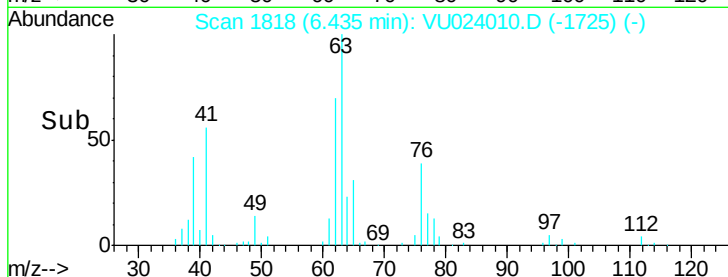


Abundance Ion 63.00 (62.70 to 63.70): VU024010.D (-1725) (-)

Ion 112.00 (111.70 to 112.70): VU024010.D (-1725) (-)

6.44

Time-->



#38

Bromodichloromethane

Concen: 16.70 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

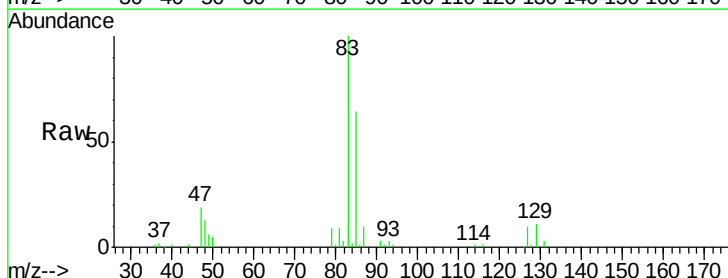
Tgt Ion: 83 Resp: 55538

Ion Ratio Lower Upper

83 100

85 63.9 45.8 85.0

127 9.6 6.6 10.0



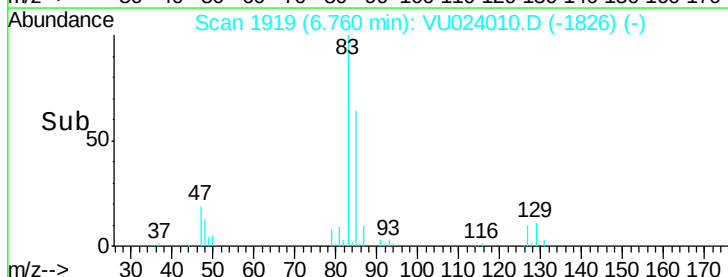
Abundance Ion 83.00 (82.70 to 83.70): VU024010.D (-1826) (-)

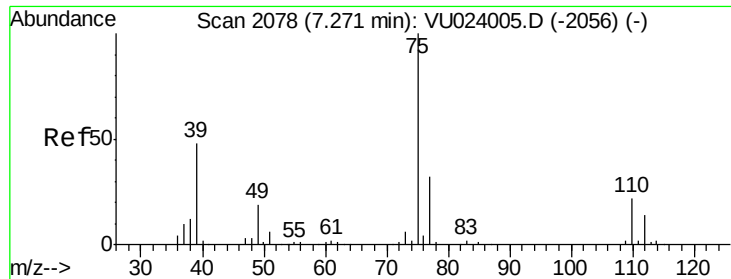
Ion 85.00 (84.70 to 85.70): VU024010.D (-1826) (-)

Ion 127.00 (126.70 to 127.70): VU024010.D (-1826) (-)

6.76

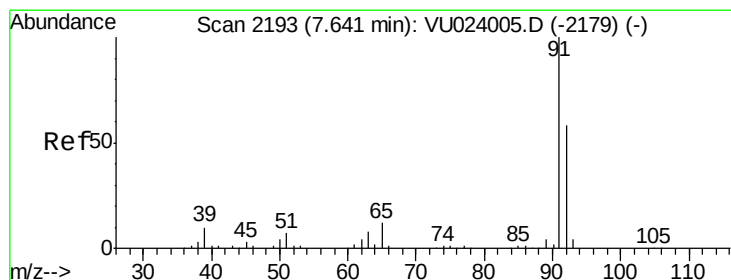
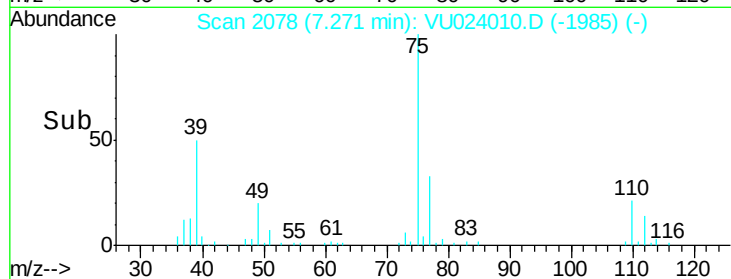
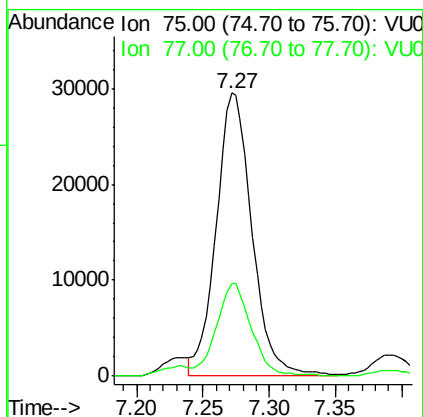
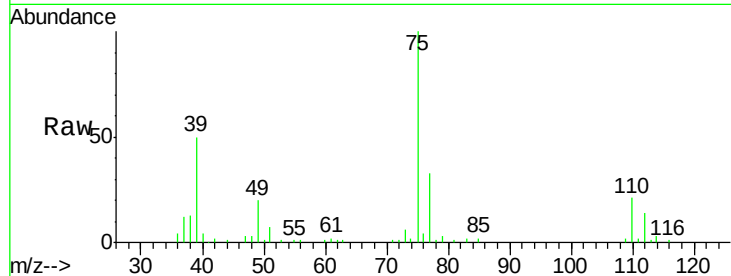
Time-->





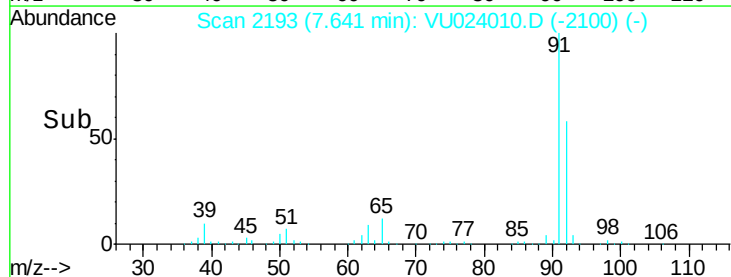
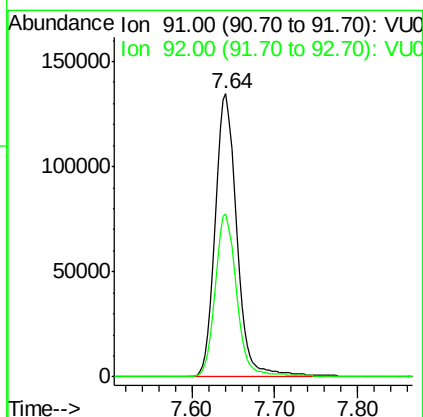
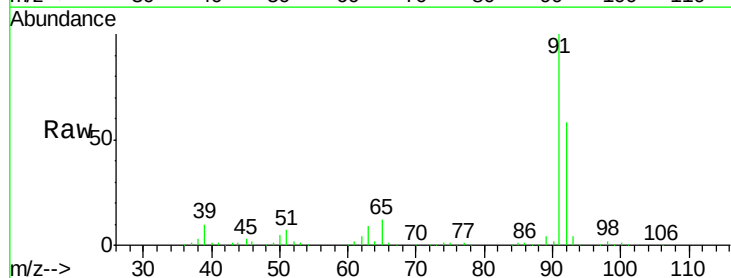
#39
 cis-1,3-Dichloropropene
 Concen: 14.96 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU024010.D
 Acq: 22 May 2018 12:33

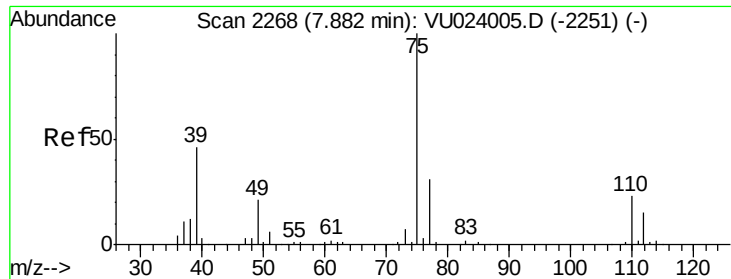
Tgt Ion: 75 Resp: 55430
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.5 41.9



#42
 Toluene
 Concen: 24.81 ug/L
 RT: 7.64 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VU024010.D
 Acq: 22 May 2018 12:33

Tgt Ion: 91 Resp: 245226
 Ion Ratio Lower Upper
 91 100
 92 57.7 40.0 74.4





#44

trans-1,3-Dichloropropene

Concen: 11.81 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU024010.D

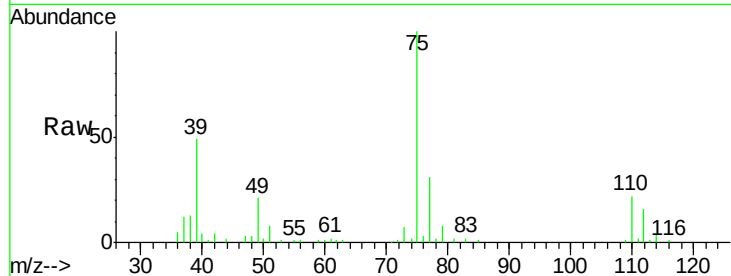
Acq: 22 May 2018 12:33

Tgt Ion: 75 Resp: 40296

Ion Ratio Lower Upper

75 100

77 31.4 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.88

25000

20000

15000

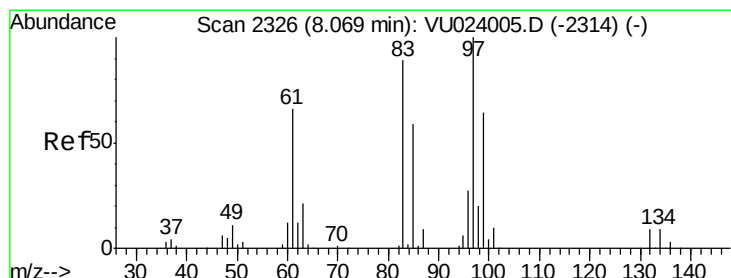
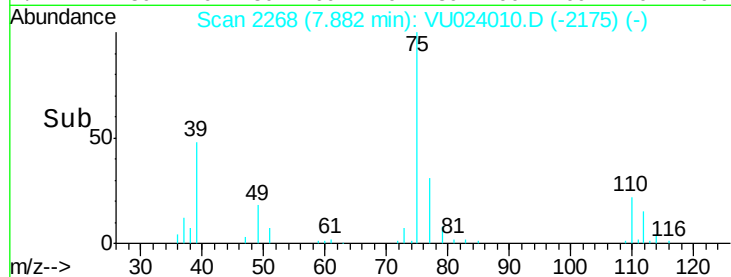
10000

5000

0

7.80 7.85 7.90 7.95

Time-->



#45

1,1,2-Trichloroethane

Concen: 18.48 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

Tgt Ion: 97 Resp: 46599

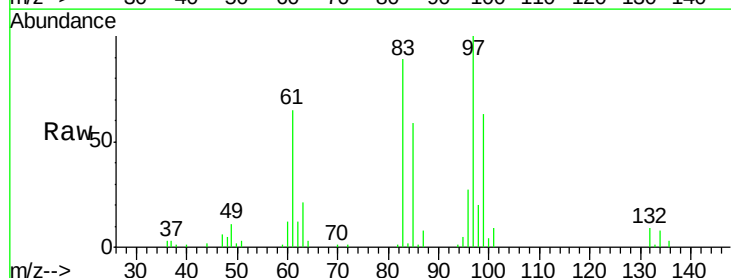
Ion Ratio Lower Upper

97 100

99 62.6 43.3 80.3

83 89.5 61.9 114.9

85 59.4 39.8 74.0



Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

40000

30000

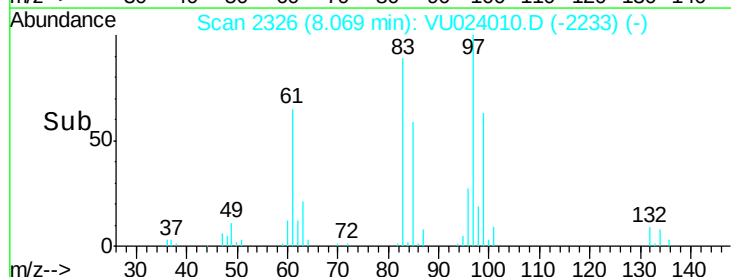
20000

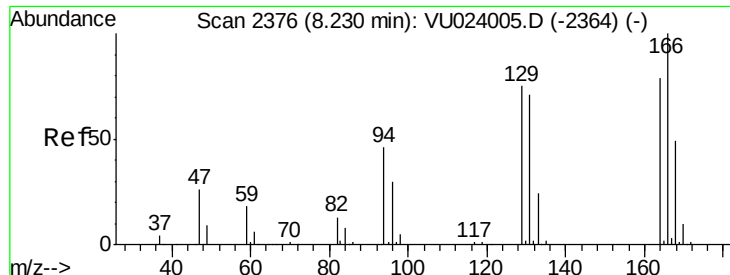
10000

0

8.00 8.05 8.10 8.15

Time-->





#46

Tetrachloroethene

Concen: 18.25 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

Tgt Ion: 164 Resp: 36085

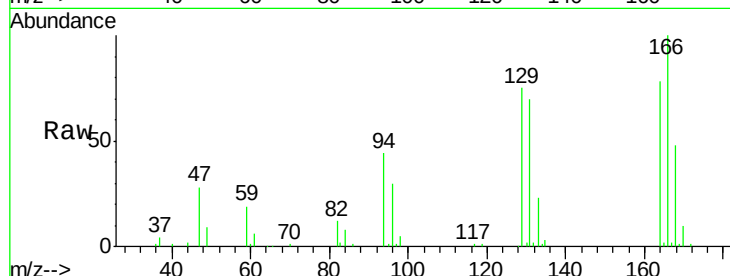
Ion Ratio Lower Upper

164 100

129 96.4 65.3 121.3

131 90.4 63.0 117.0

166 128.4 87.4 162.2

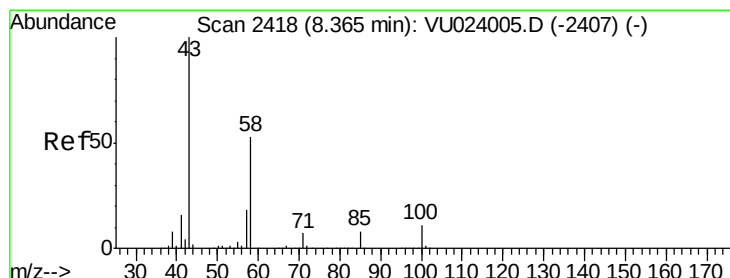
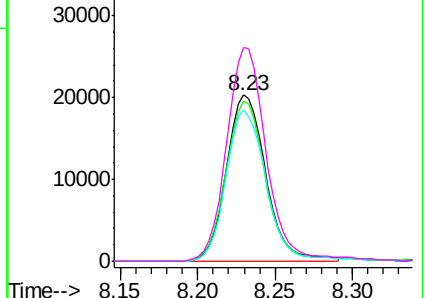
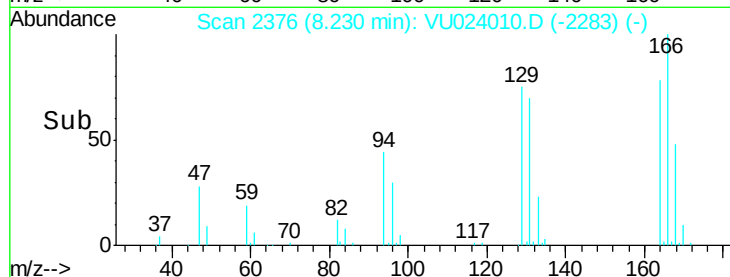


Abundance Ion 164.00 (163.70 to 164.70): V

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: 5.32 ug/L

RT: 8.32 min Scan# 2403

Delta R.T. -0.05 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

Tgt Ion: 43 Resp: 17071

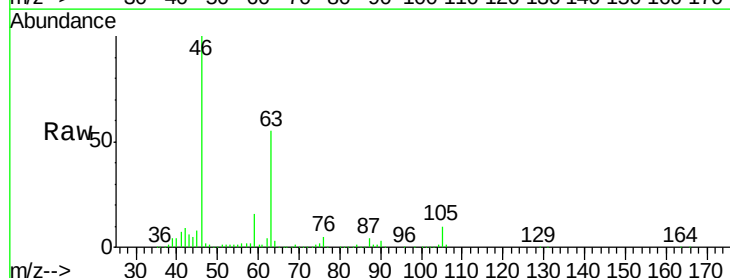
Ion Ratio Lower Upper

43 100

58 27.9 42.6 63.8#

57 31.1 14.9 22.3#

100 2.0 8.5 12.7#

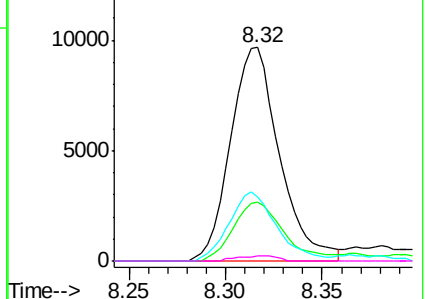
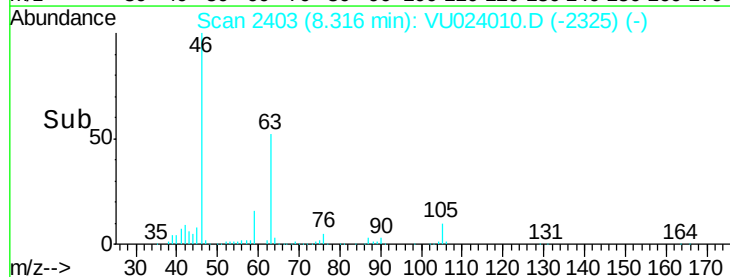


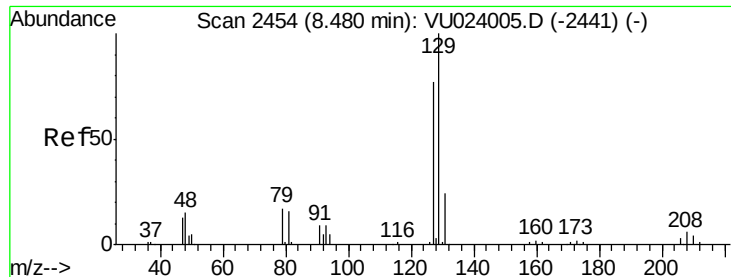
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





#49

Dibromochloromethane

Concen: 19.00 ug/L

RT: 8.48 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VU024010.D

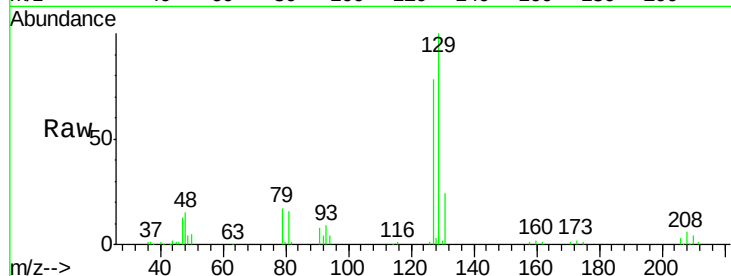
Acq: 22 May 2018 12:33

Tgt Ion: 129 Resp: 50929

Ion Ratio Lower Upper

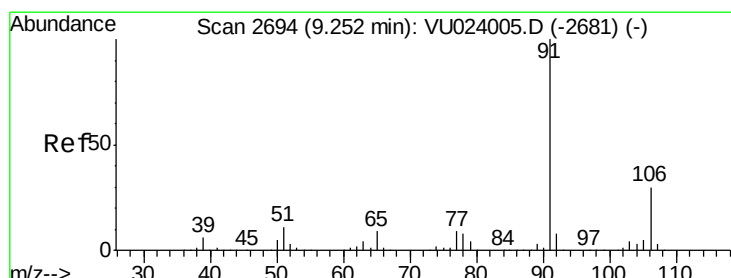
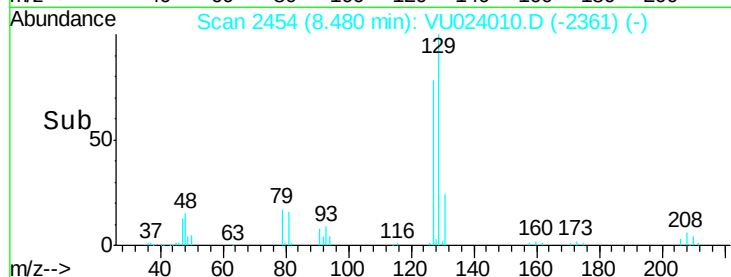
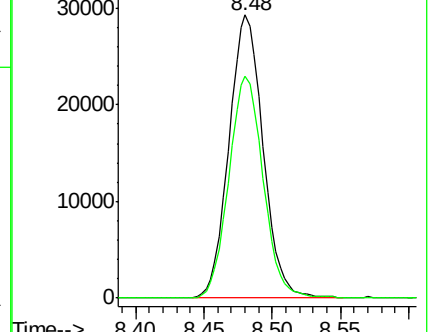
129 100

127 78.3 53.5 99.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Ethylbenzene

Concen: 23.87 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU024010.D

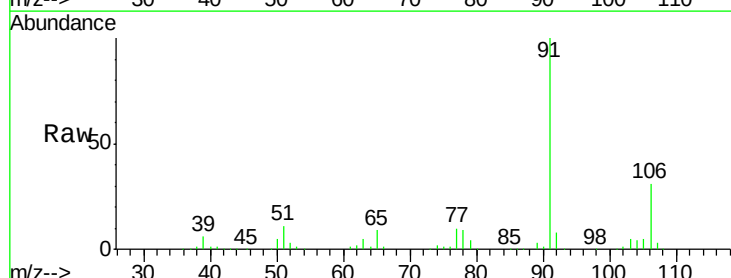
Acq: 22 May 2018 12:33

Tgt Ion: 91 Resp: 254301

Ion Ratio Lower Upper

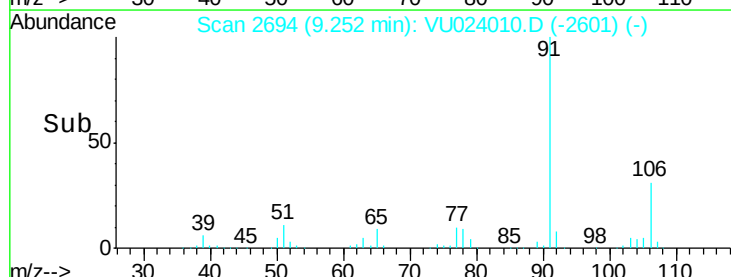
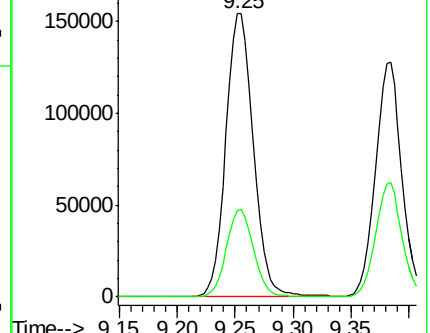
91 100

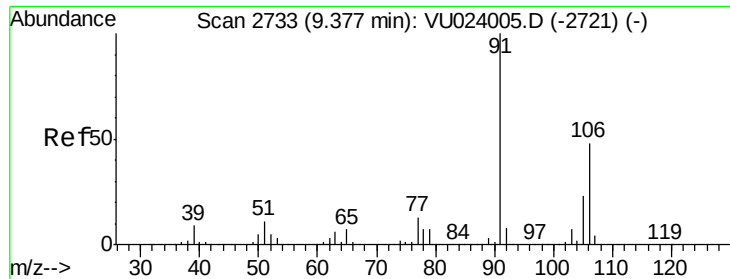
106 30.7 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

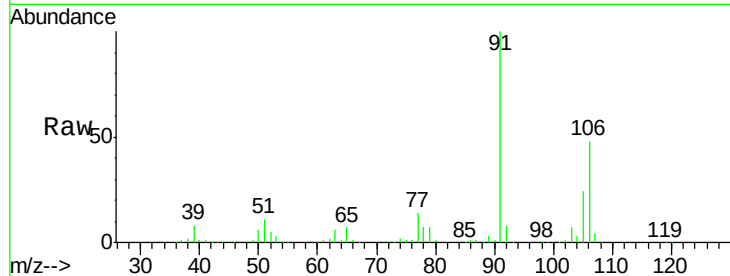
Ion 106.00 (105.70 to 106.70): V



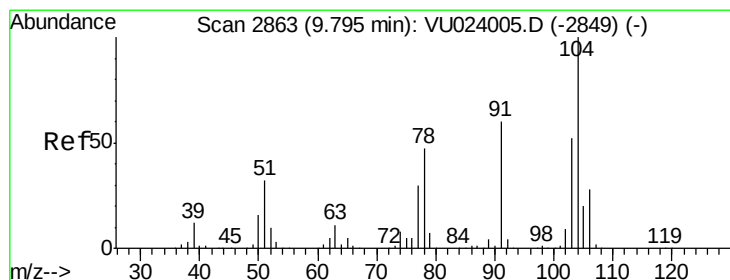
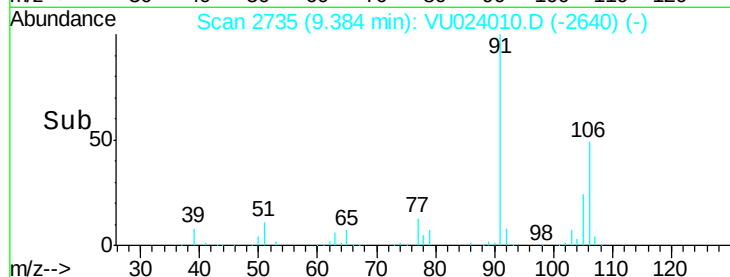
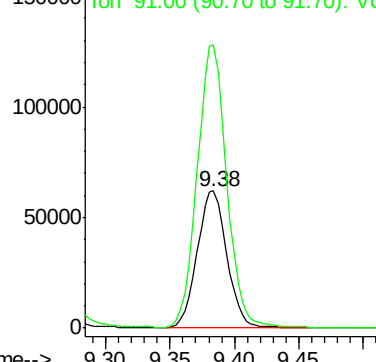


#53
m,p-Xylene
Concen: 24.46 ug/L
RT: 9.38 min Scan# 2735
Delta R.T. 0.01 min
Lab File: VU024010.D
Acq: 22 May 2018 12:33

Tgt Ion:106 Resp: 98753
Ion Ratio Lower Upper
106 100
91 206.2 141.8 263.4

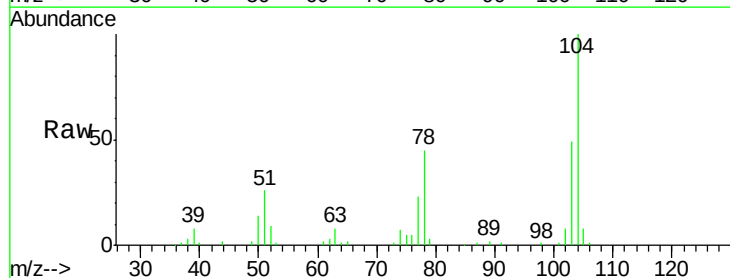


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

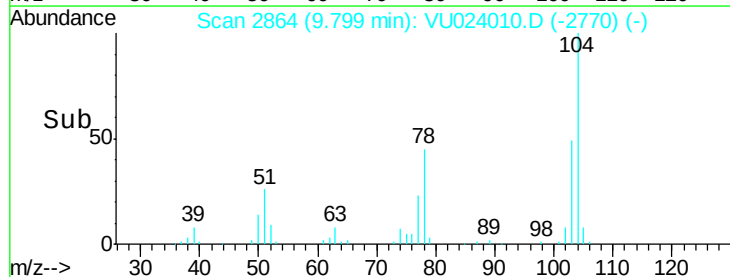
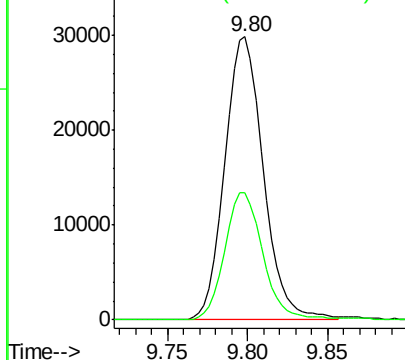


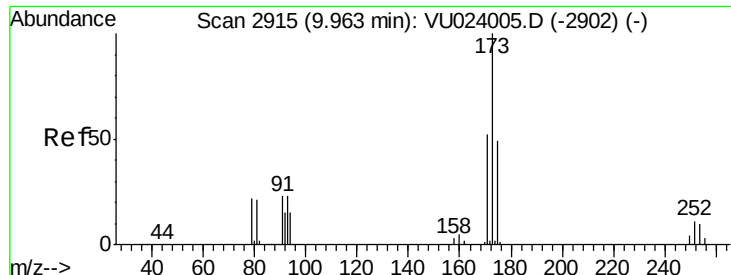
#55
Styrene
Concen: 7.18 ug/L
RT: 9.80 min Scan# 2864
Delta R.T. 0.00 min
Lab File: VU024010.D
Acq: 22 May 2018 12:33

Tgt Ion:104 Resp: 49235
Ion Ratio Lower Upper
104 100
78 45.0 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#61

Bromoform

Concen: 16.91 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

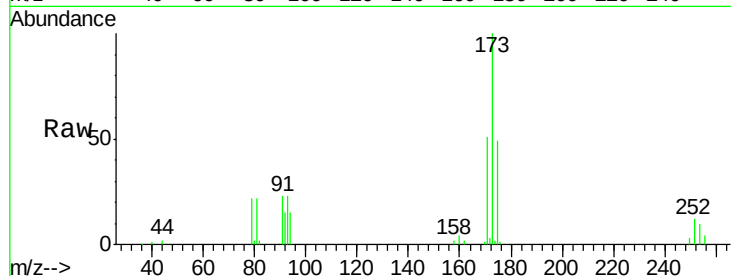
Tgt Ion:173 Resp: 34986

Ion Ratio Lower Upper

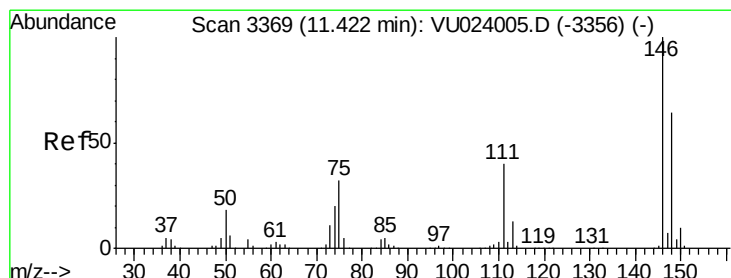
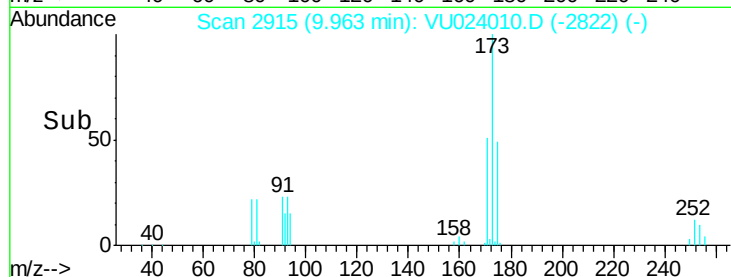
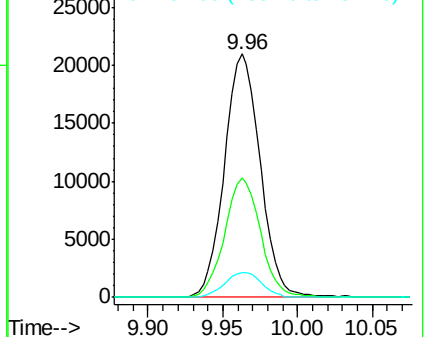
173 100

175 49.0 38.7 58.1

254 10.4 8.9 13.3



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 22.57 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. -0.00 min

Lab File: VU024010.D

Acq: 22 May 2018 12:33

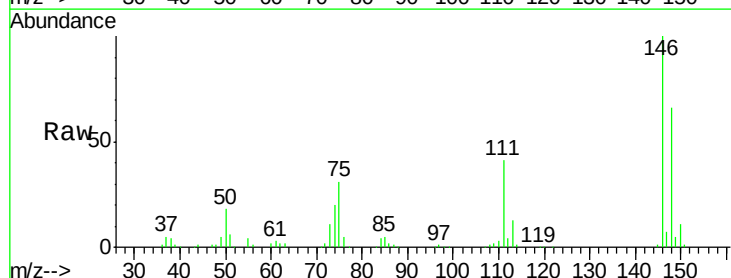
Tgt Ion:146 Resp: 115074

Ion Ratio Lower Upper

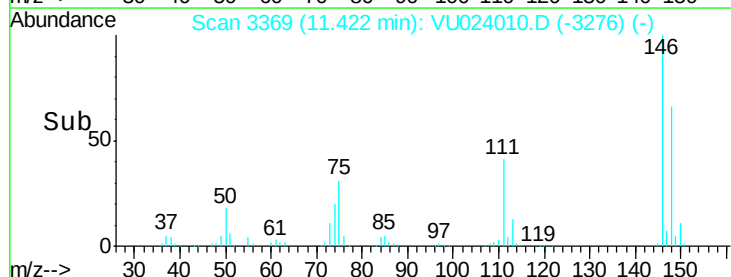
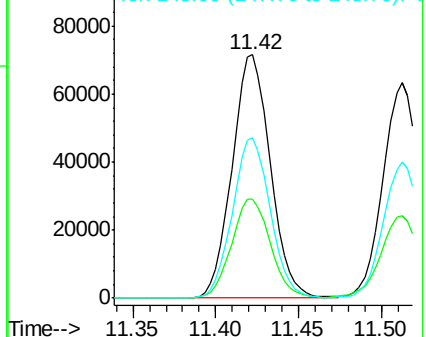
146 100

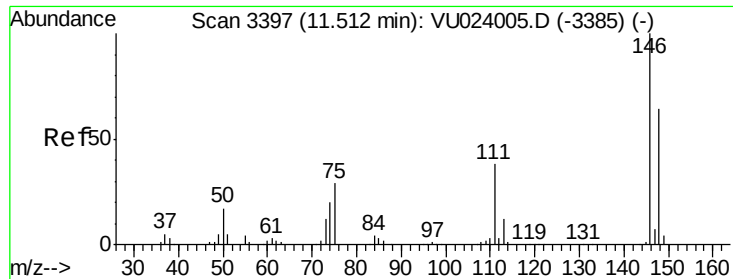
111 40.8 27.6 51.4

148 65.9 45.4 84.2



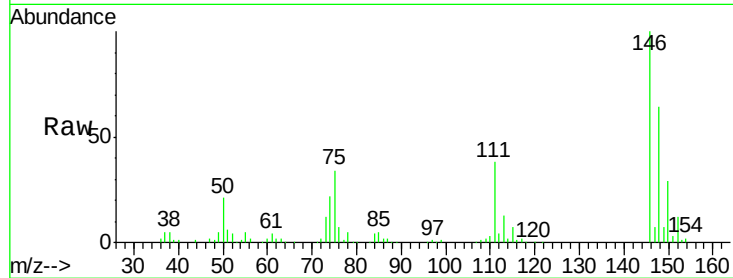
Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



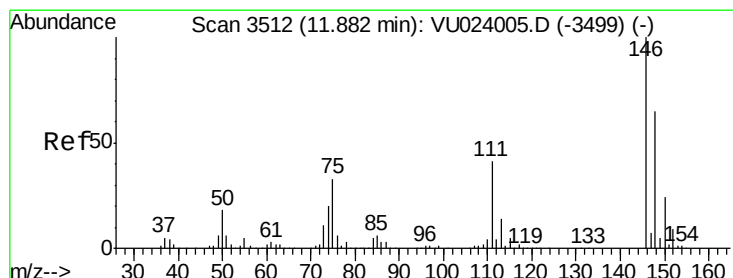
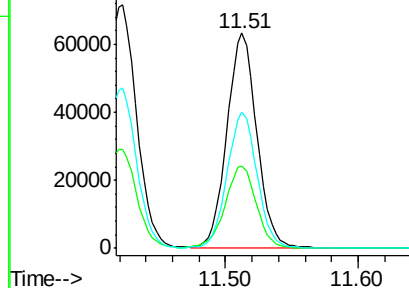
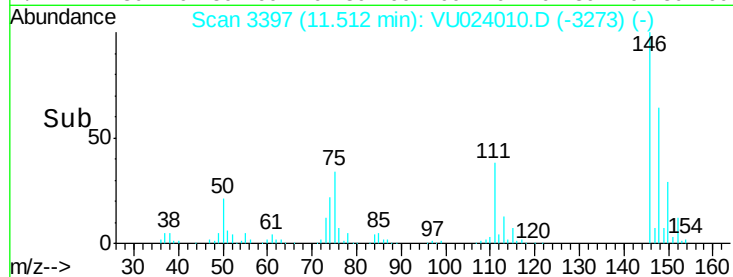


#63
 1,4-Dichlorobenzene
 Concen: 18.42 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. -0.00 min
 Lab File: VU024010.D
 Acq: 22 May 2018 12:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	27.0	50.2
148	63.6	45.2	84.0

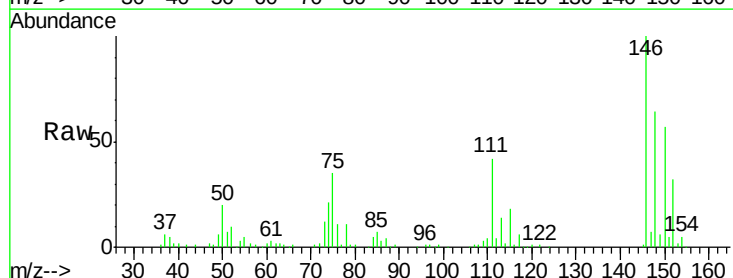


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



#65
 1,2-Dichlorobenzene
 Concen: 23.60 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU024010.D
 Acq: 22 May 2018 12:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	32.1	48.1
148	63.6	49.8	74.8



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

