

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U062318\
 Data File : VU024852.D
 Acq On : 22 Jun 2018 23:28
 Operator : MD/SY
 Sample : J3662-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

Quant Time: Jun 23 02:17:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	196225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	301315	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289400	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	170696	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	147110	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
35) Dibromofluoromethane	4.89	113	113213	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
50) Toluene-d8	7.57	98	442307	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
62) 4-Bromofluorobenzene	10.31	95	171181	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.40	50	86417	34.44	ug/l #	42
4) Vinyl Chloride	1.40	62	11383650	4398.98	ug/l	89
5) Bromomethane	1.64	94	612	0.49	ug/l #	67
10) Methyl Iodide	2.41	142	347	5.44	ug/l #	56
11) Tert butyl alcohol	2.82	59	38873	49.89	ug/l	99
12) 1,1-Dichloroethene	2.29	96	37500	16.78	ug/l	96
13) Acrolein	2.20	56	208	0.51	ug/l #	13
16) Acetone	2.32	43	3050	1.77	ug/l	96
17) Carbon Disulfide	2.49	76	3607	0.50	ug/l	97
21) trans-1,2-Dichloroethene	2.99	96	149531	60.76	ug/l	97
24) 1,1-Dichloroethane	3.45	63	86488	18.28	ug/l	99
27) cis-1,2-Dichloroethene	4.24	96	16523535	5840.44	ug/l	87
29) Tetrahydrofuran	4.64	42	1570	1.10	ug/l #	43
30) Chloroform	4.68	83	2703	0.56	ug/l	95
31) Cyclohexane	4.99	56	10890	0.64	ug/l #	68
36) 1,1-Dichloropropene	4.99	75	14855	4.20	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18483	4.75	ug/l #	16
39) Methylcyclohexane	6.42	83	30628	6.93	ug/l	96
40) Benzene	5.39	78	395301	39.18	ug/l	98
42) 1,2-Dichloroethane	5.41	62	48805	12.70	ug/l	98
43) Isopropyl Acetate	5.54	43	4045	0.61	ug/l #	62
44) Trichloroethene	6.19	130	133899	46.63	ug/l	99
48) Methyl methacrylate	6.64	41	975	0.30	ug/l	90
49) 1,4-Dioxane	6.62	88	8261	130.05	ug/l #	85
52) Toluene	7.64	92	111086	17.11	ug/l	98
53) t-1,3-Dichloropropene	7.64	75	1324	0.31	ug/l #	1
55) 1,1,2-Trichloroethane	8.07	97	14149	5.36	ug/l	95
59) 2-Hexanone	8.17	43	19126	5.59	ug/l	77
60) Dibromochloromethane	8.23	129	1726	0.52	ug/l #	11
64) Tetrachloroethene	8.23	164	1883	0.68	ug/l	96
65) Chlorobenzene	9.13	112	6255062	846.07	ug/l	99
67) Ethyl Benzene	9.26	91	105392	8.13	ug/l	93
68) m/p-Xylenes	9.38	106	19661	3.95	ug/l	96
69) o-Xylene	9.78	106	64854	13.17	ug/l	97

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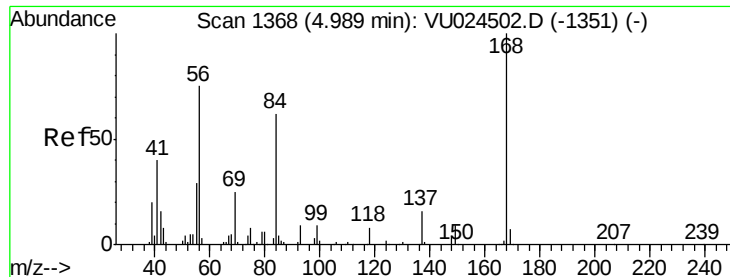
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

70) Styrene	9.78	104	3359	0.41	ug/l #	1
73) Isopropylbenzene	10.17	105	54051	4.12	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	88499	23.55	ug/l #	36
78) n-propylbenzene	10.59	91	66462	4.31	ug/l	98
79) 2-Chlorotoluene	10.68	91	5500	0.60	ug/l #	70
80) 1,3,5-Trimethylbenzene	10.78	105	56401	4.97	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	88499	54.50	ug/l #	100
82) 4-Chlorotoluene	10.68	91	5500	0.52	ug/l	76
83) tert-Butylbenzene	11.10	119	73781	6.75	ug/l	90
84) 1,2,4-Trimethylbenzene	11.15	105	102400	8.85	ug/l	99
85) sec-Butylbenzene	11.33	105	84203	6.16	ug/l	97
86) p-Isopropyltoluene	11.48	119	32555	2.66	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	106897	17.44	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	344197	55.79	ug/l	99
89) n-Butylbenzene	11.89	91	57961	5.33	ug/l #	51
90) Hexachloroethane	12.15	117	7211	3.02	ug/l #	8
91) 1,2-Dichlorobenzene	11.88	146	1510473	246.02	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.65	75	870	0.72	ug/l #	3
93) 1,2,4-Trichlorobenzene	13.51	180	4724	1.25	ug/l #	88
95) Naphthalene	13.75	128	14115	1.79	ug/l #	89
96) 1,2,3-Trichlorobenzene	13.99	180	2185	0.58	ug/l #	91

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

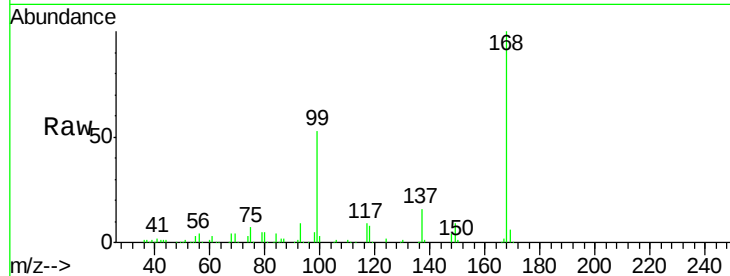
WP021MW345-180618

Tot Ion:168 Resp: 196225

Ion Ratio Lower Upper

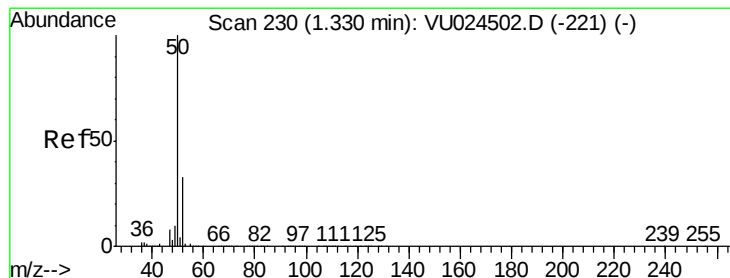
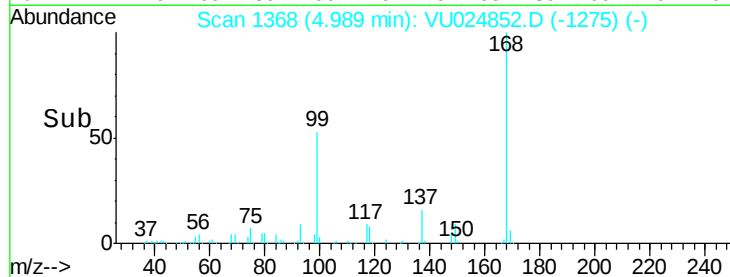
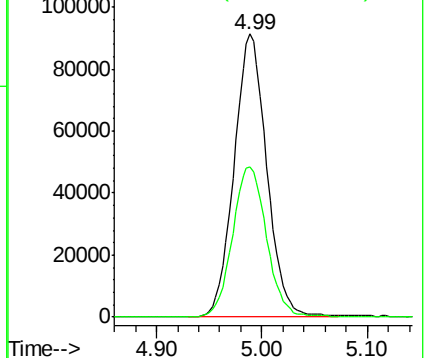
168 100

99 53.1 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024852.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024852.D (-1351) (-)



#3

Chloromethane

Concen: 34.44 ug/l

RT: 1.40 min Scan# 252

Delta R.T. 0.07 min

Lab File: VU024852.D

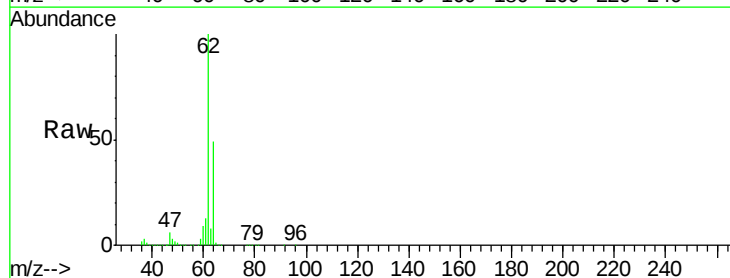
Acq: 22 Jun 2018 23:28

Tgt Ion: 50 Resp: 86417

Ion Ratio Lower Upper

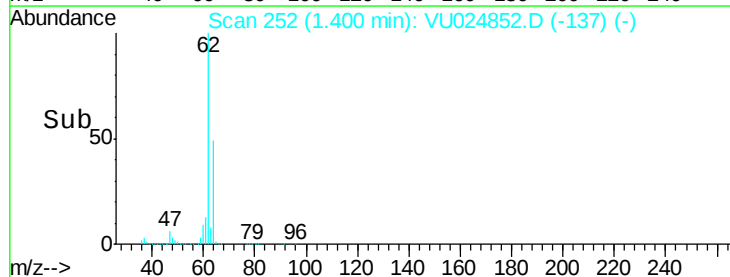
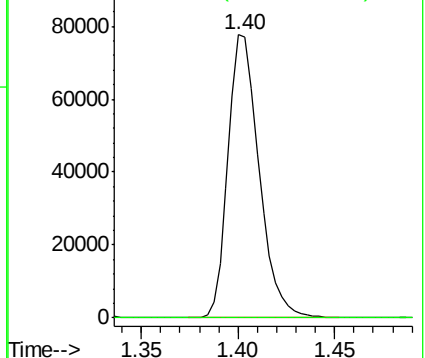
50 100

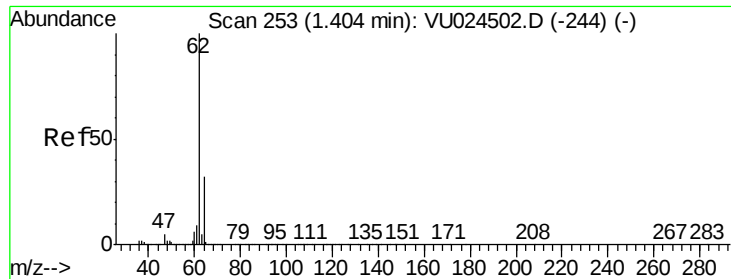
52 0.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024852.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024852.D (-137) (-)





#4

Vinyl Chloride

Concen: 4398.98 ug/l

RT: 1.40 min Scan# 251

Delta R.T. -0.01 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

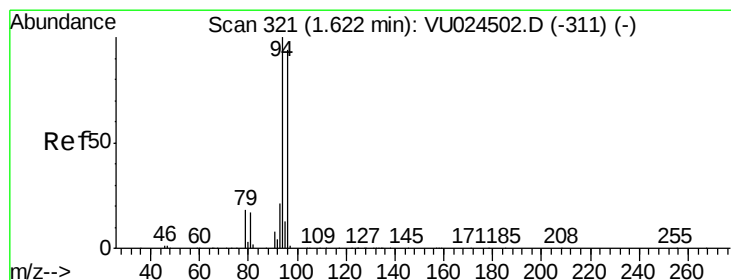
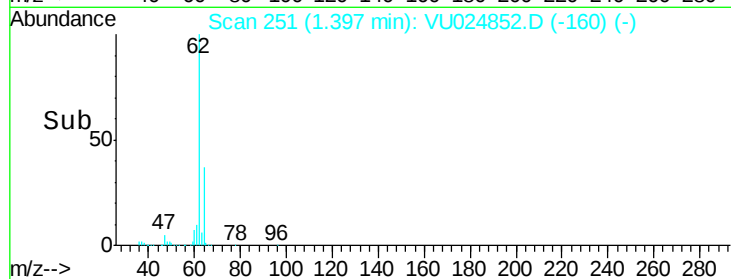
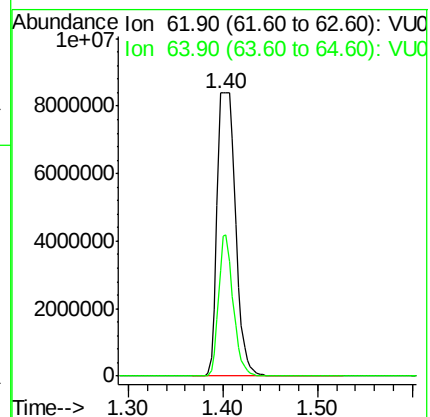
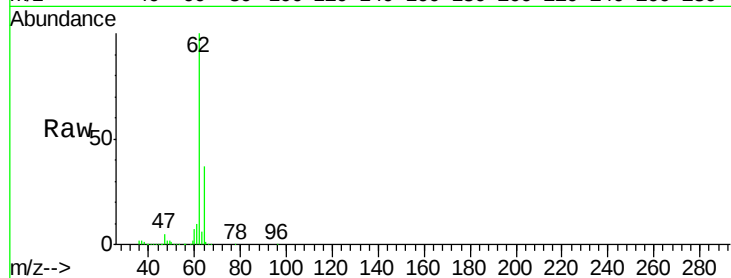
WP021MW345-180618

Tot Ion: 62 Resp: 11383650

Ion Ratio Lower Upper

62 100

64 37.1 24.8 37.2



#5

Bromomethane

Concen: 0.49 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024852.D

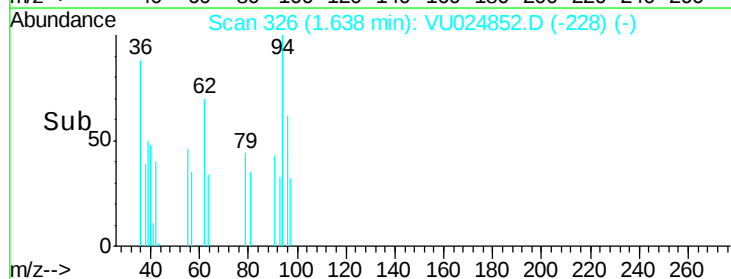
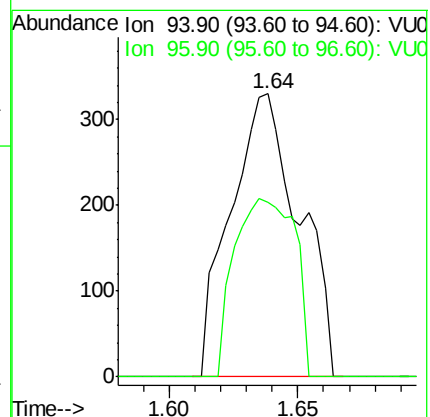
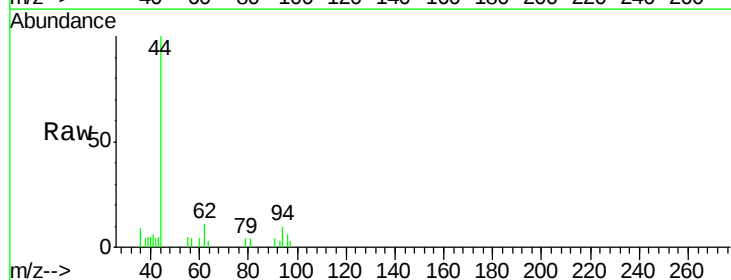
Acq: 22 Jun 2018 23:28

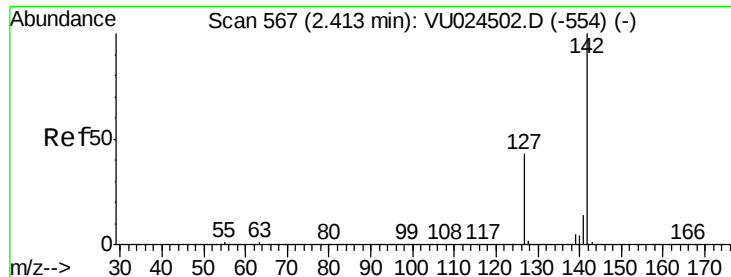
Tgt Ion: 94 Resp: 612

Ion Ratio Lower Upper

94 100

96 61.8 74.5 111.7#

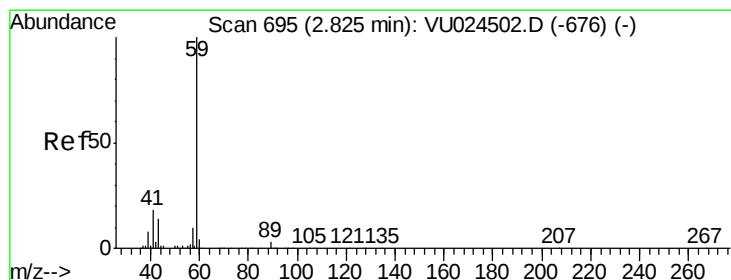
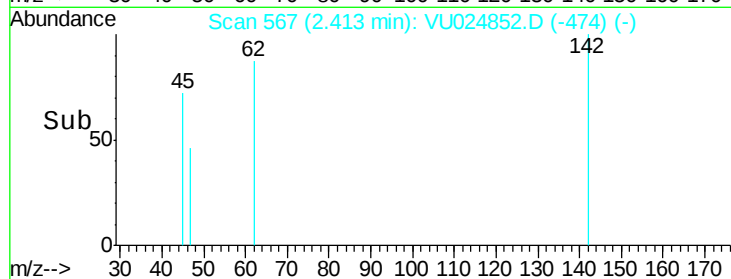
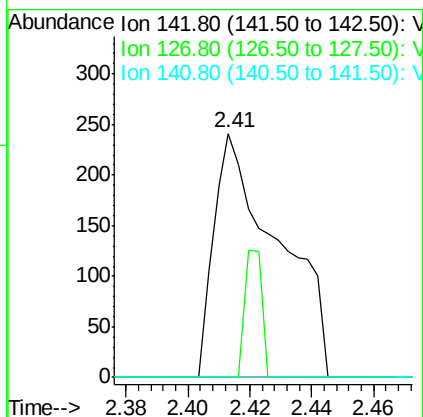
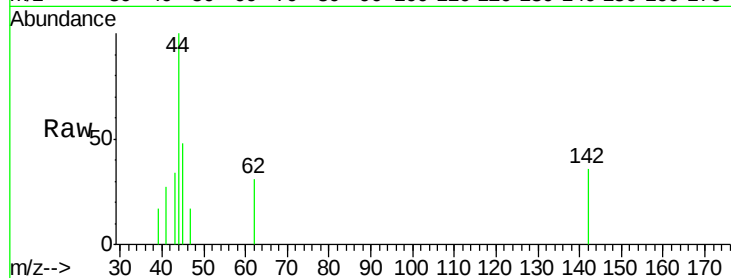




#10
Methvl Iodide
Concen: 5.44 ug/l
RT: 2.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

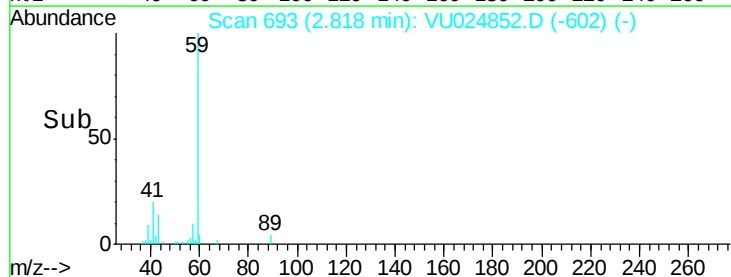
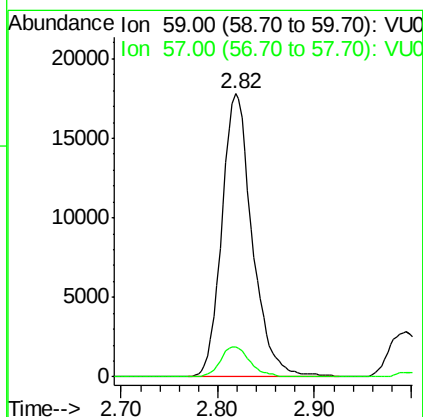
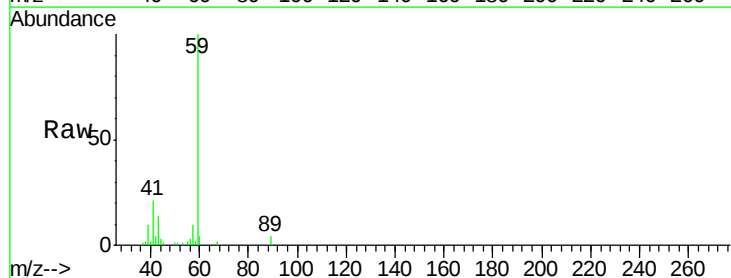
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

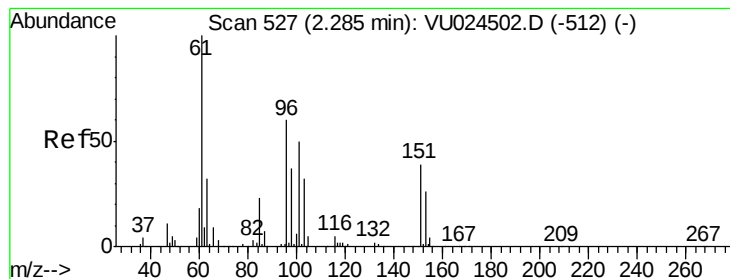
Tot Ion	Ratio	Lower	Upper
142	100		
127	13.8	35.6	53.4#
141	0.0	11.7	17.5#



#11
Tert butyl alcohol
Concen: 49.89 ug/l
RT: 2.82 min Scan# 693
Delta R.T. -0.01 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.5	12.7





#12

1,1-Dichloroethene

Concen: 16.78 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.01 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

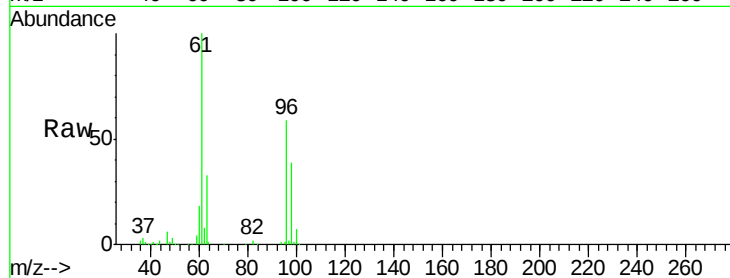
Tot Ion: 96 Resp: 37500

Ion Ratio Lower Upper

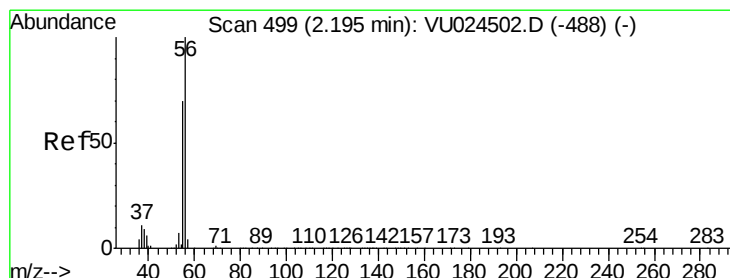
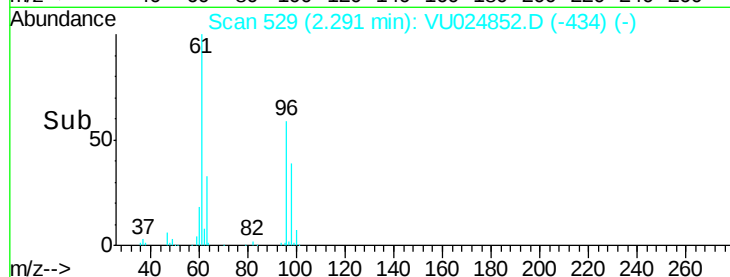
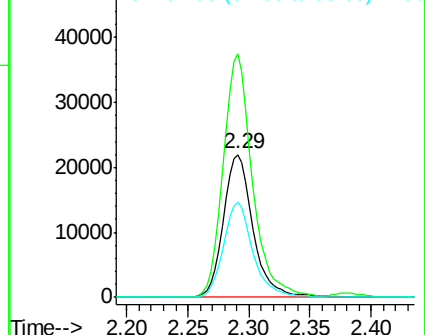
96 100

61 170.7 141.7 212.5

98 67.0 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#13

Acrolein

Concen: 0.51 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024852.D

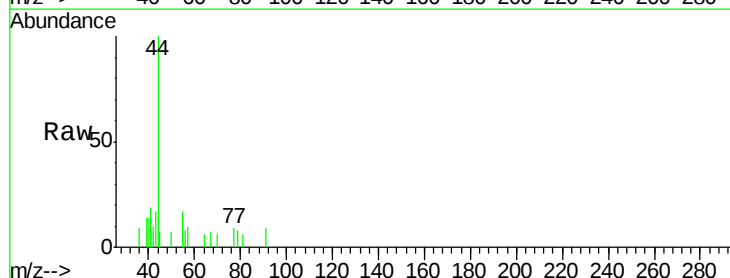
Acq: 22 Jun 2018 23:28

Tgt Ion: 56 Resp: 208

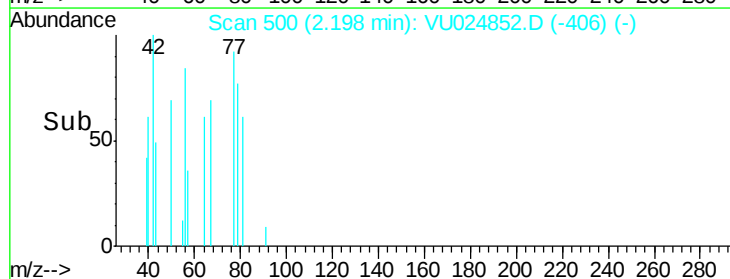
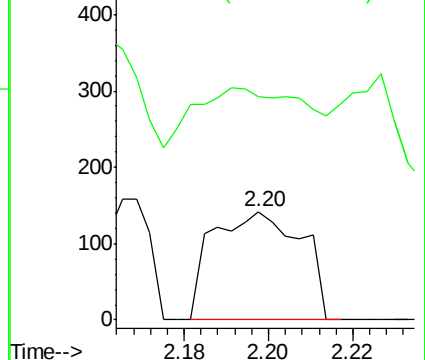
Ion Ratio Lower Upper

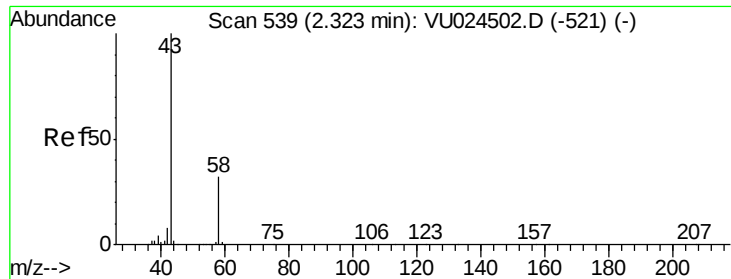
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 1.77 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

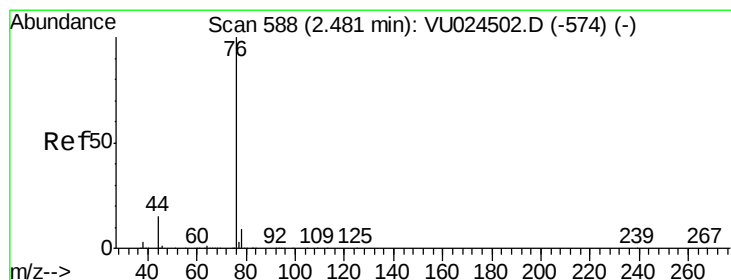
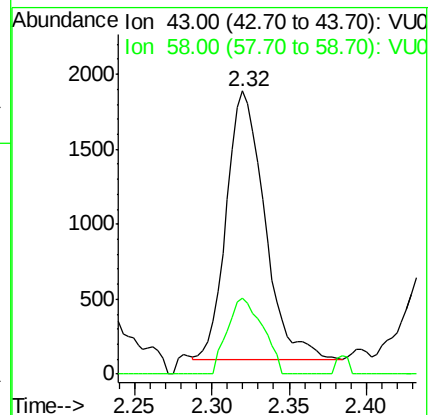
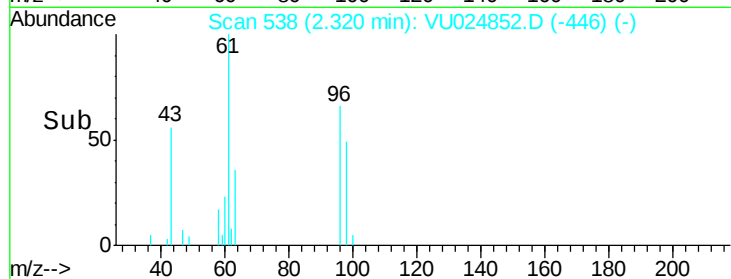
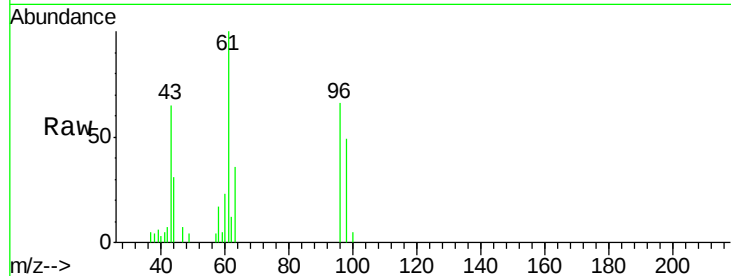
WP021MW345-180618

Tot Ion: 43 Resp: 3050

Ion Ratio Lower Upper

43 100

58 28.3 24.4 36.6



#17

Carbon Disulfide

Concen: 0.50 ug/l

RT: 2.49 min Scan# 591

Delta R.T. 0.01 min

Lab File: VU024852.D

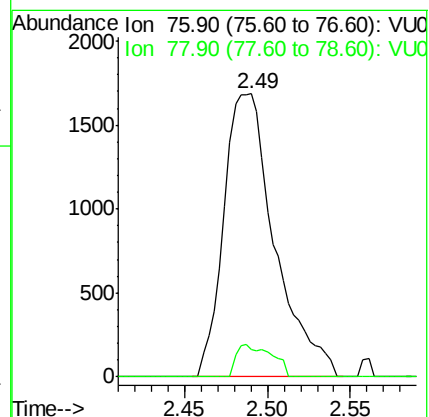
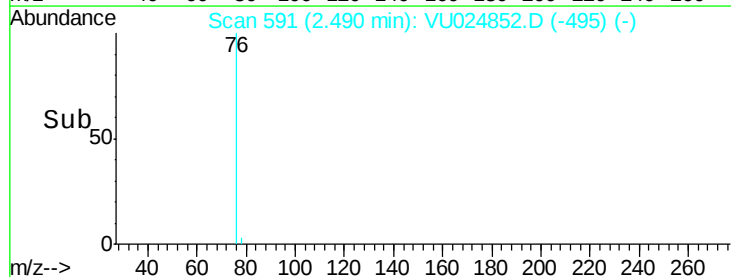
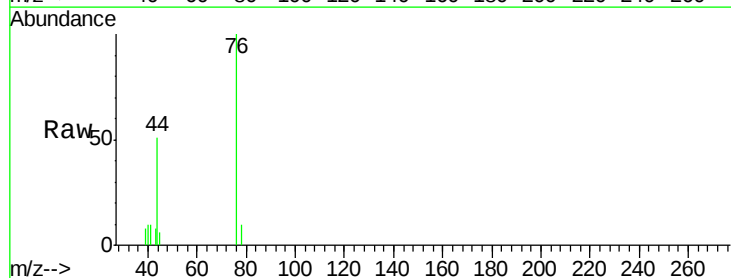
Acq: 22 Jun 2018 23:28

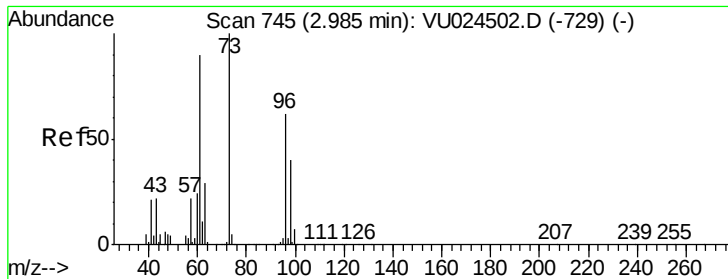
Tgt Ion: 76 Resp: 3607

Ion Ratio Lower Upper

76 100

78 9.8 7.1 10.7





#21

trans-1,2-Dichloroethene

Concen: 60.76 ug/l

RT: 2.99 min Scan# 747

Delta R.T. 0.01 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

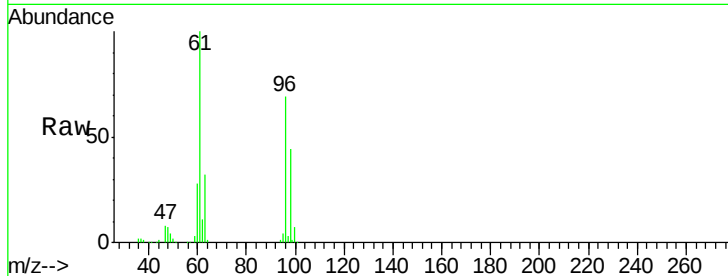
Tot Ion: 96 Resp: 149531

Ion Ratio Lower Upper

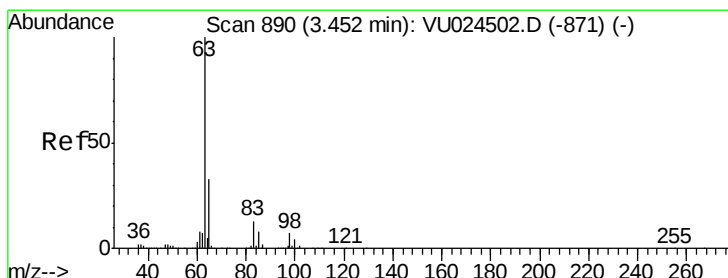
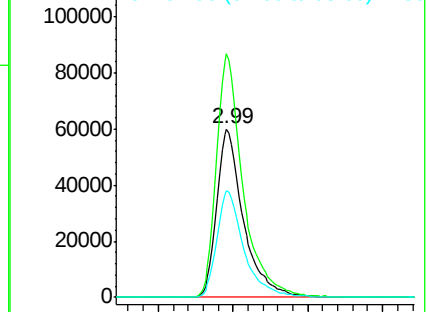
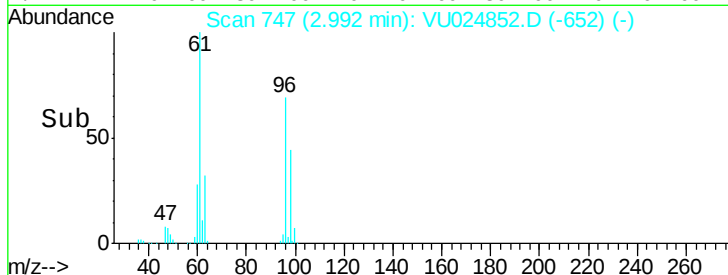
96 100

61 144.4 119.4 179.0

98 63.4 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VU024852.D (-652) (-)



#24

1,1-Dichloroethane

Concen: 18.28 ug/l

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

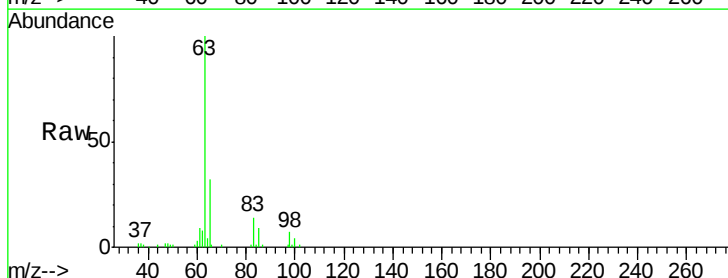
Tgt Ion: 63 Resp: 86488

Ion Ratio Lower Upper

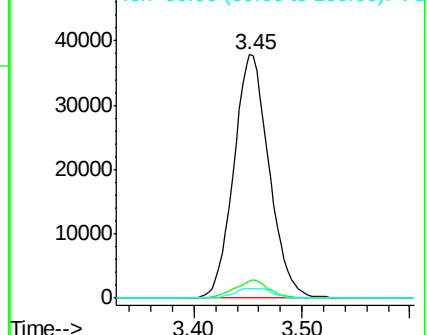
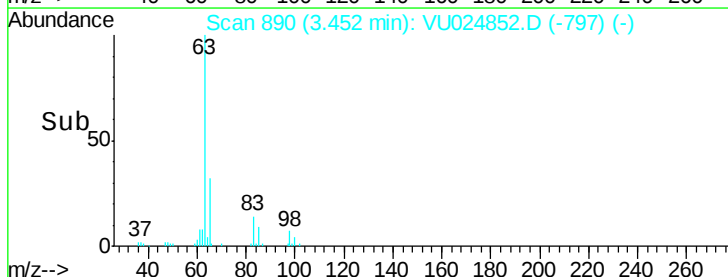
63 100

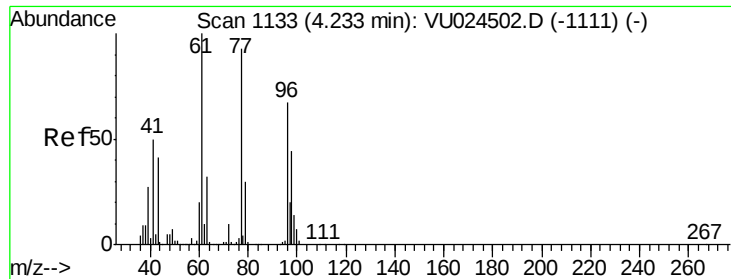
98 7.2 3.5 10.4

100 4.0 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VU024852.D (-797) (-)



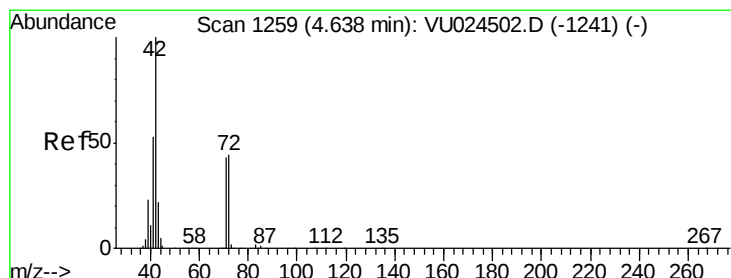
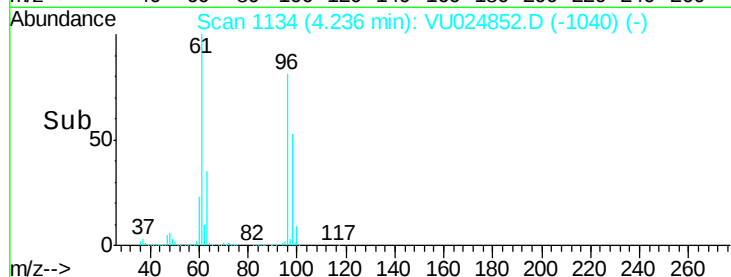
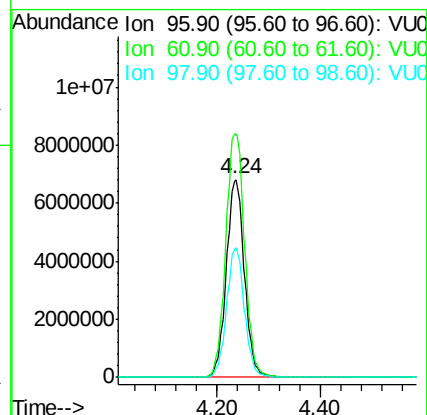
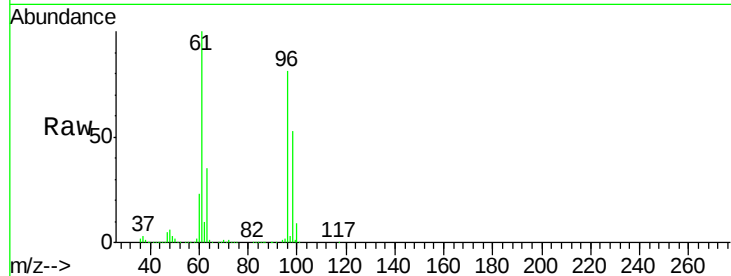


#27
 cis-1,2-Dichloroethene
 Concen: 5840.44 ug/l
 RT: 4.24 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

Tot Ion: 96 Resp:16523535

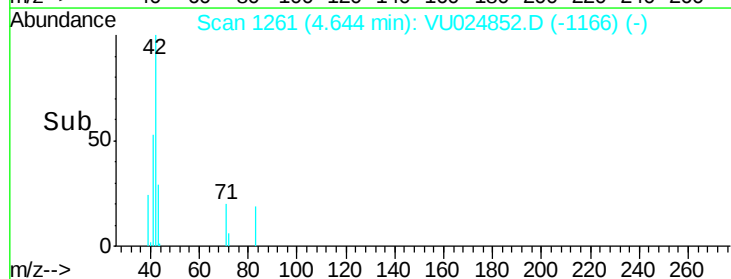
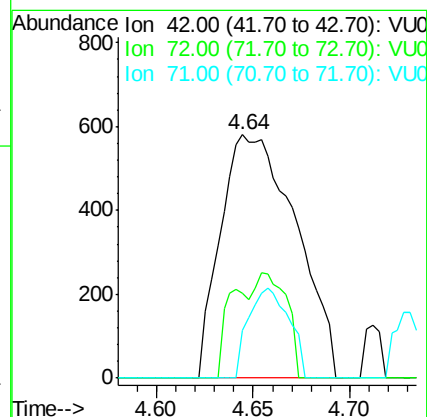
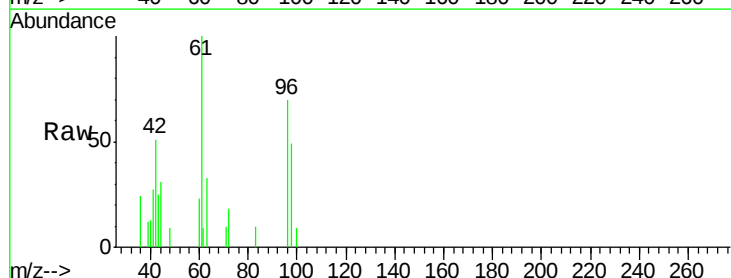
Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	306.6
98	65.0	0.0	128.8

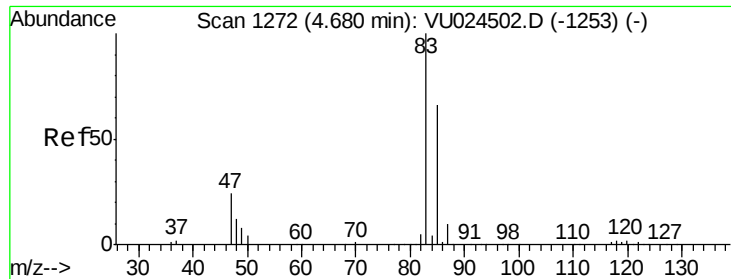


#29
 Tetrahydrofuran
 Concen: 1.10 ug/l
 RT: 4.64 min Scan# 1261
 Delta R.T. 0.01 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Tgt Ion: 42 Resp: 1570

Ion	Ratio	Lower	Upper
42	100		
72	12.0	34.5	51.7#
71	0.0	32.2	48.4#

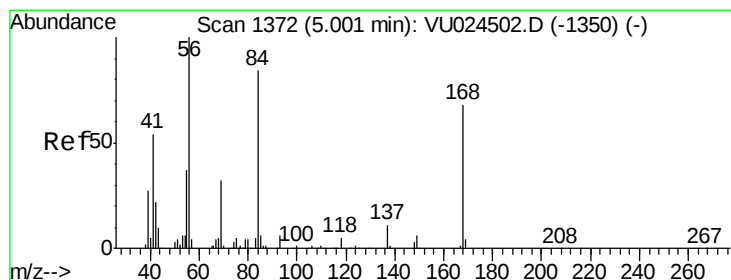
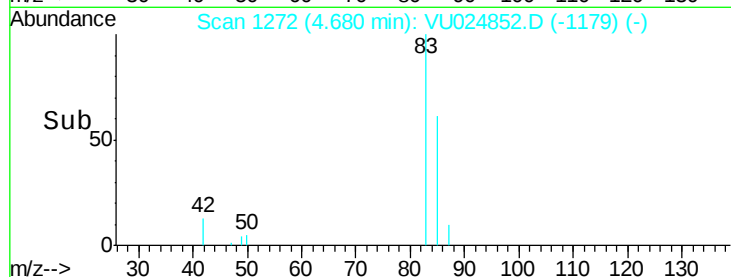
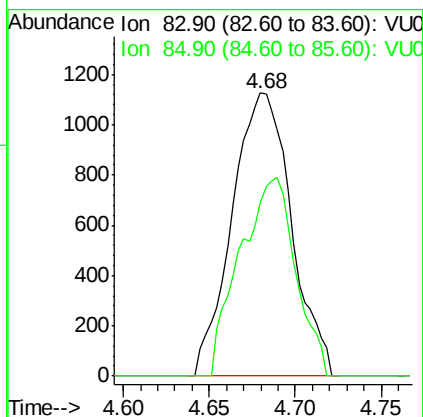
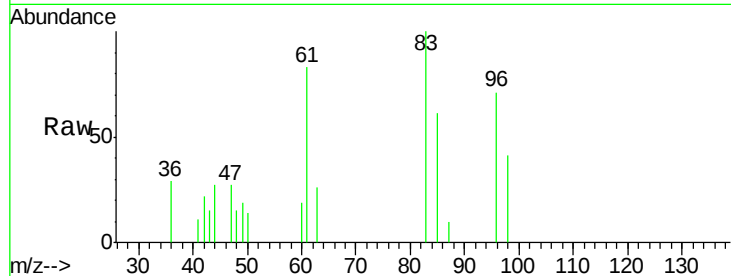




#30
Chloroform
Concen: 0.56 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

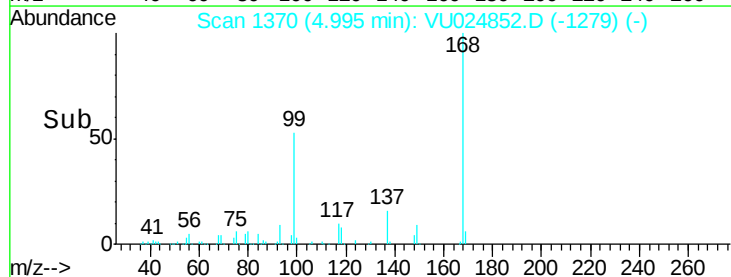
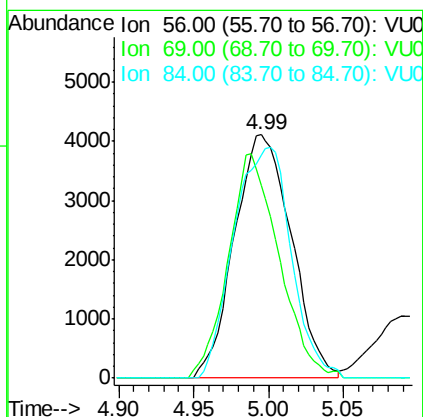
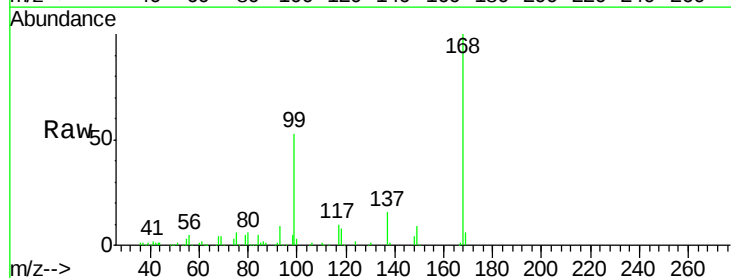
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

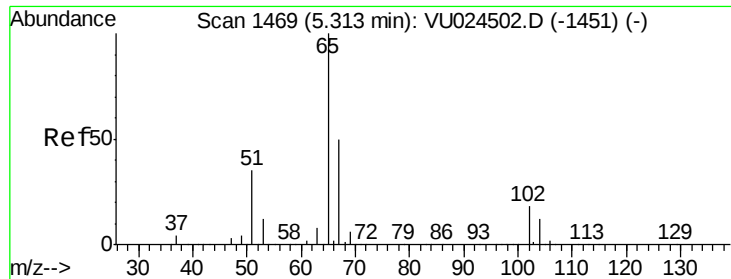
Tot Ion: 83 Resp: 2703
Ion Ratio Lower Upper
83 100
85 61.4 52.4 78.6



#31
Cyclohexane
Concen: 0.64 ug/l
RT: 4.99 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion: 56 Resp: 10890
Ion Ratio Lower Upper
56 100
69 79.2 24.8 37.2#
84 91.5 65.2 97.8





#33

1,2-Dichloroethane-d4

Concen: 45.92 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

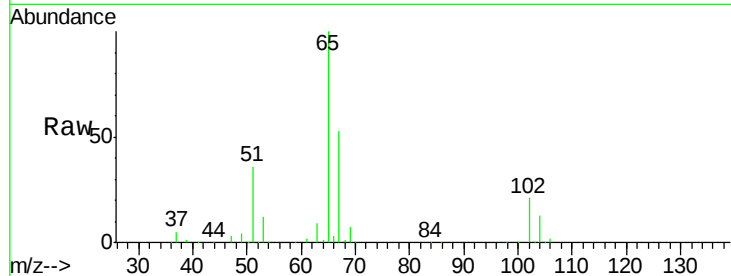
WP021MW345-180618

Tot Ion: 65 Resp: 147110

Ion Ratio Lower Upper

65 100

67 52.0 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU024852.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU024852.D (-1376) (-)

5.31

60000

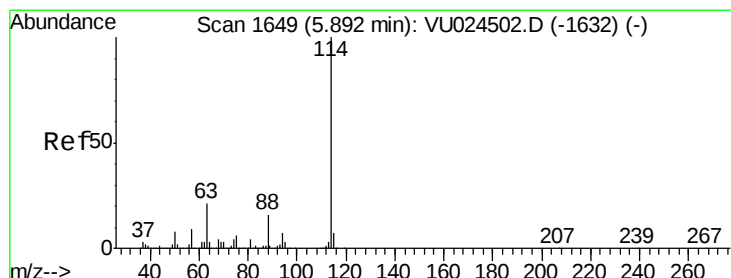
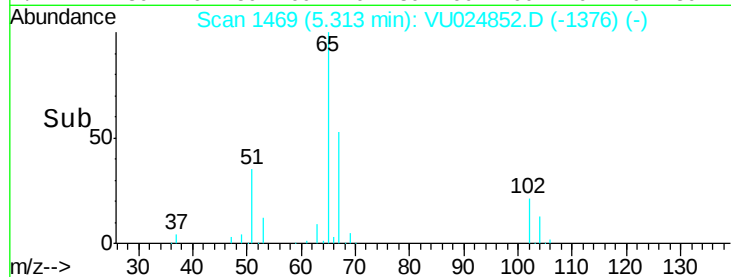
40000

20000

0

5.25 5.30 5.35 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

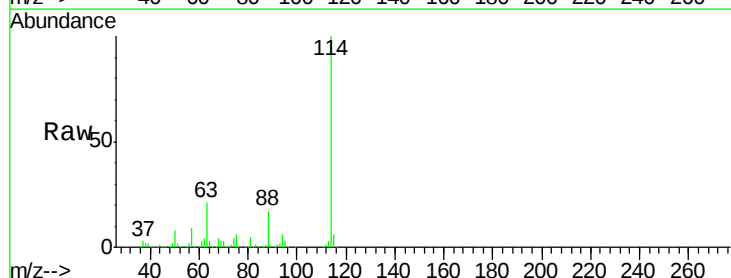
Tgt Ion: 114 Resp: 301315

Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.4

88 16.8 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VU024852.D (-1556) (-)

Ion 63.00 (62.70 to 63.70): VU024852.D (-1556) (-)

Ion 87.90 (87.60 to 88.60): VU024852.D (-1556) (-)

200000

150000

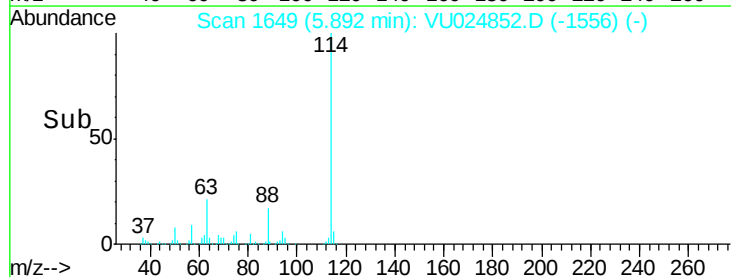
100000

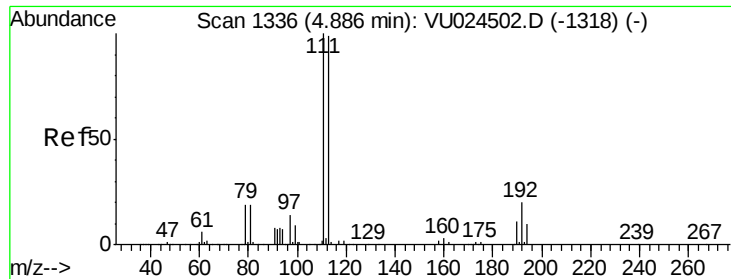
50000

0

5.80 5.90 6.00

Time-->

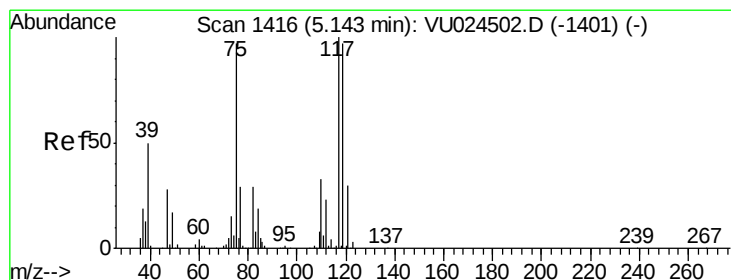
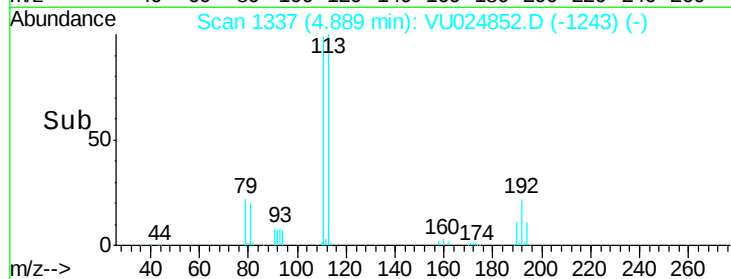
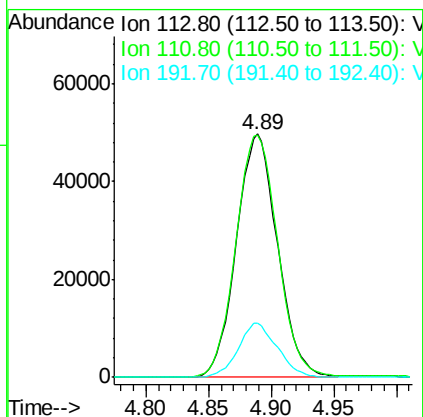
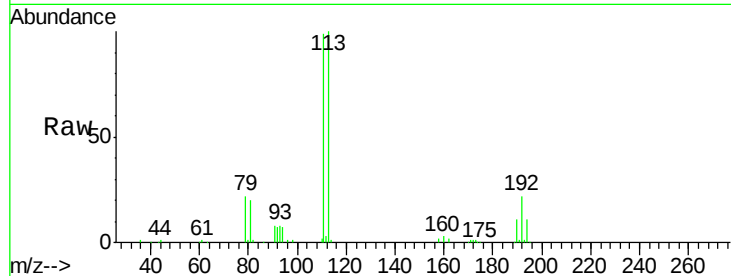




#35
 Dibromofluoromethane
 Concen: 45.27 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

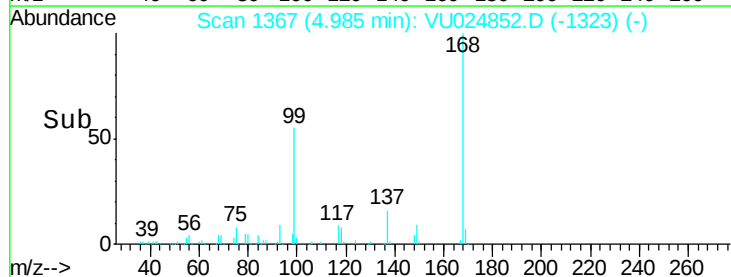
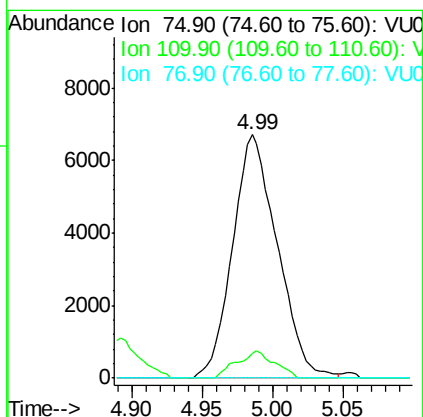
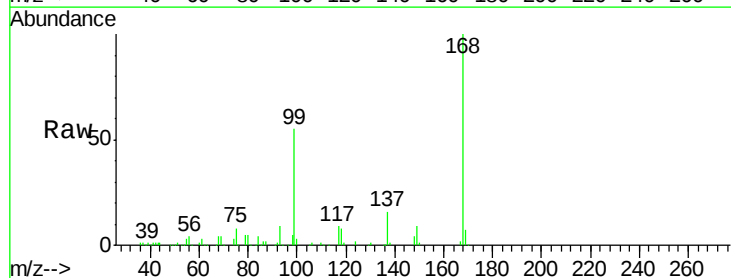
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

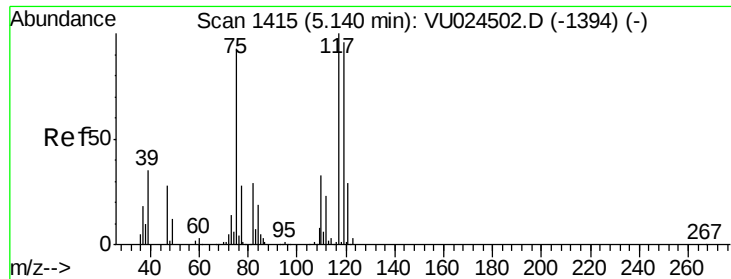
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.2	123.4
192	21.3	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.20 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.75 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

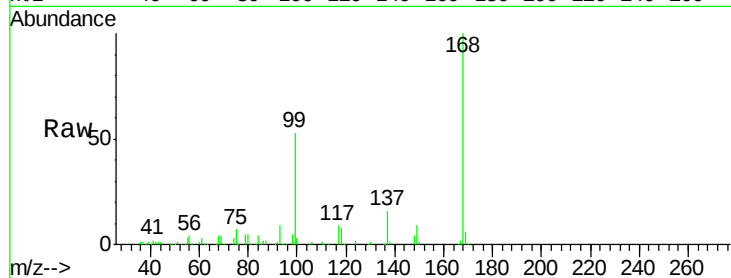
Tot Ion:117 Resp: 18483

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

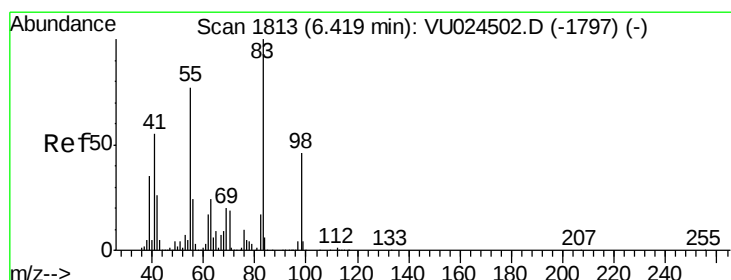
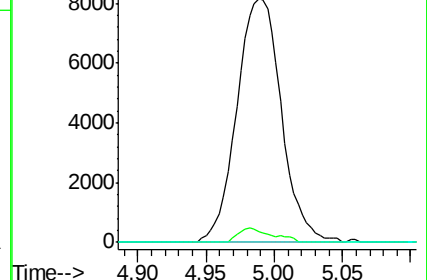
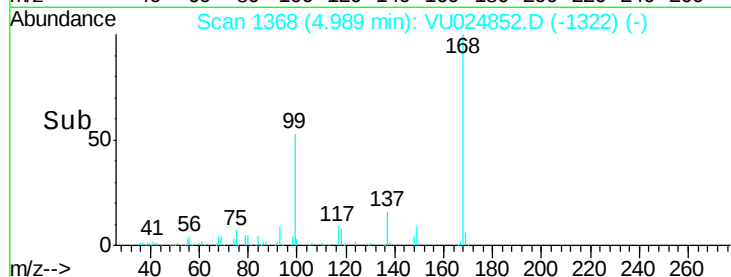
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 6.93 ug/l

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

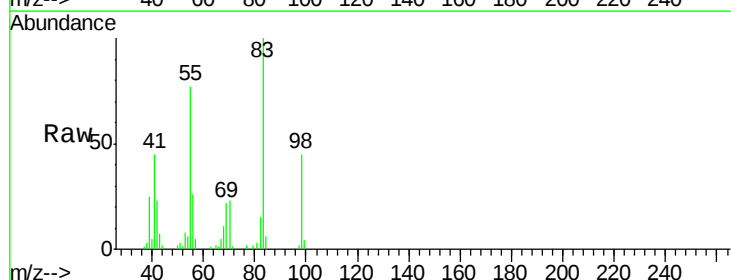
Tgt Ion: 83 Resp: 30628

Ion Ratio Lower Upper

83 100

55 77.3 65.8 98.6

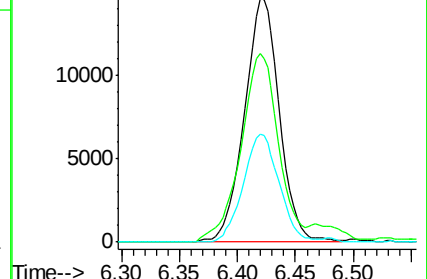
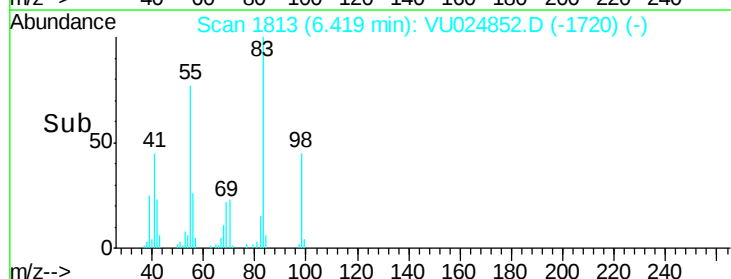
98 44.5 36.7 55.1

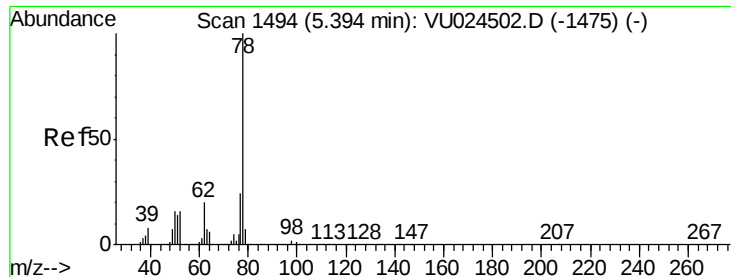


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#40

Benzene

Concen: 39.18 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

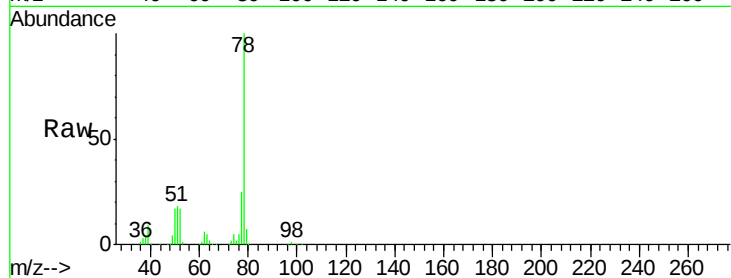
WP021MW345-180618

Tot Ion: 78 Resp: 395301

Ion Ratio Lower Upper

78 100

77 24.8 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

200000

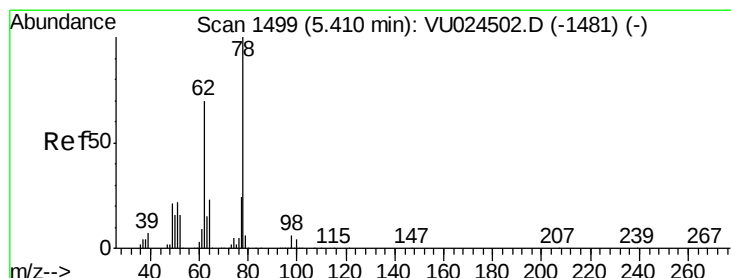
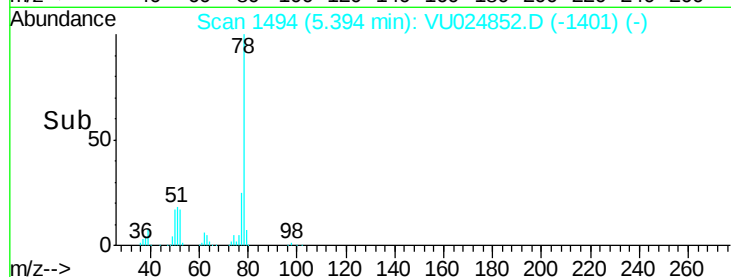
150000

100000

50000

0

Time--> 5.30 5.35 5.40 5.45 5.50



#42

1,2-Dichloroethane

Concen: 12.70 ug/l

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU024852.D

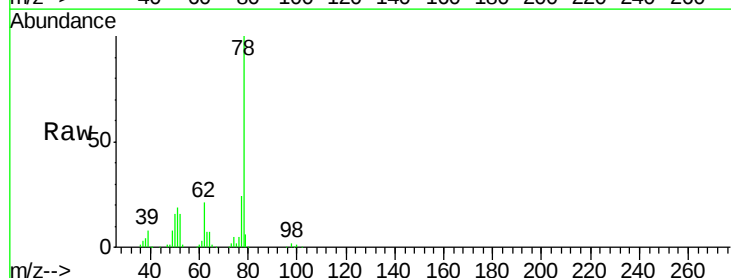
Acq: 22 Jun 2018 23:28

Tgt Ion: 62 Resp: 48805

Ion Ratio Lower Upper

62 100

98 8.9 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

5.41

25000

20000

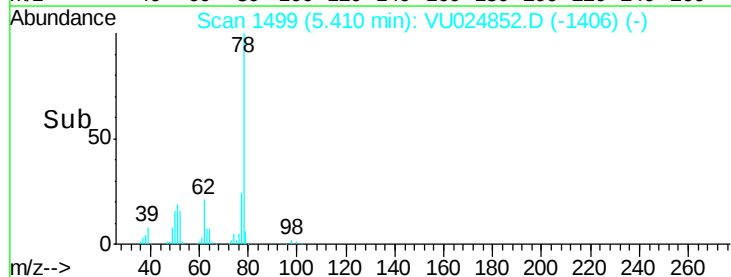
15000

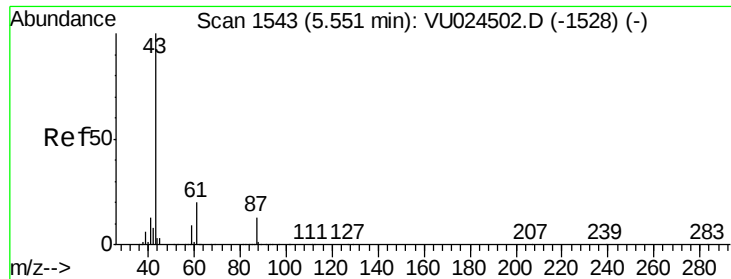
10000

5000

0

Time--> 5.30 5.35 5.40 5.45 5.50





#43

Isopropyl Acetate

Concen: 0.61 ug/l

RT: 5.54 min Scan# 1541

Delta R.T. -0.01 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

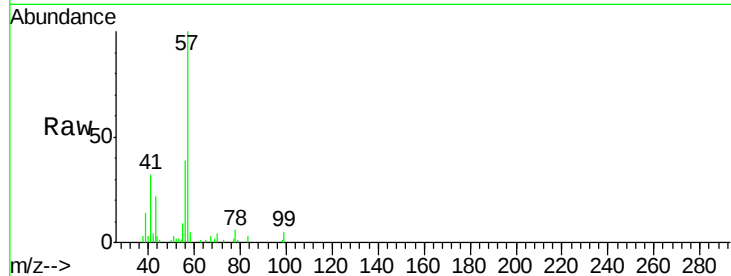
Tot Ion: 43 Resp: 4045

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 0.0 10.0 15.0#

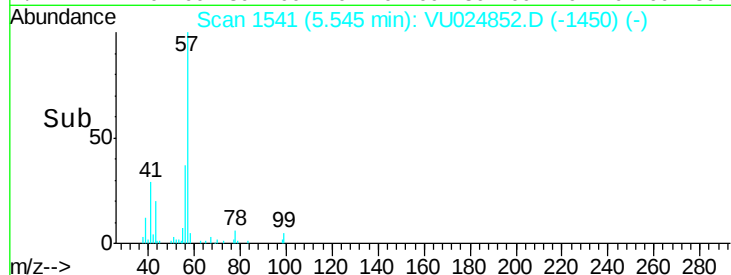


Abundance Ion 43.00 (42.70 to 43.70): VU024852.D (-1450) (-)

Ion 61.00 (60.70 to 61.70): VU024852.D (-1450) (-)

Ion 87.00 (86.70 to 87.70): VU024852.D (-1450) (-)

Time-->



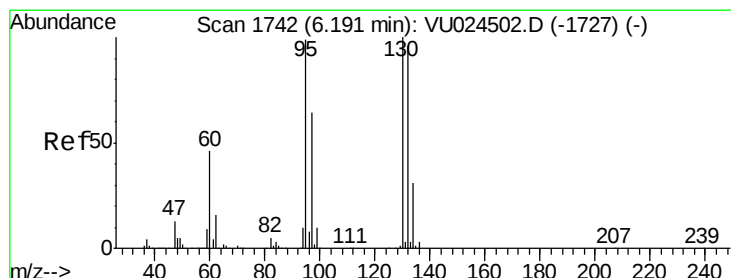
Abundance

Ion 43.00 (42.70 to 43.70): VU024852.D (-1450) (-)

Ion 61.00 (60.70 to 61.70): VU024852.D (-1450) (-)

Ion 87.00 (86.70 to 87.70): VU024852.D (-1450) (-)

Time-->



#44

Trichloroethene

Concen: 46.63 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU024852.D

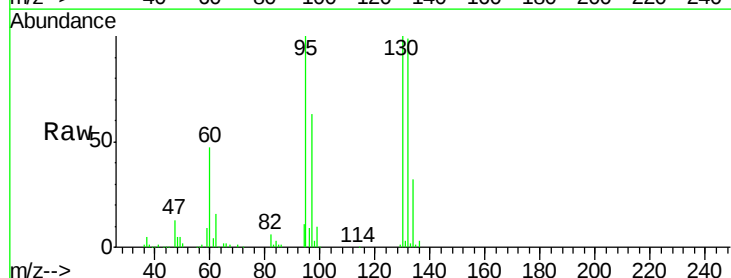
Acq: 22 Jun 2018 23:28

Tgt Ion: 130 Resp: 133899

Ion Ratio Lower Upper

130 100

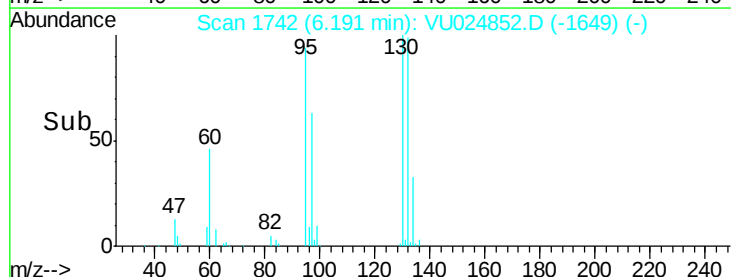
95 100.2 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024852.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024852.D (-1649) (-)

Time-->

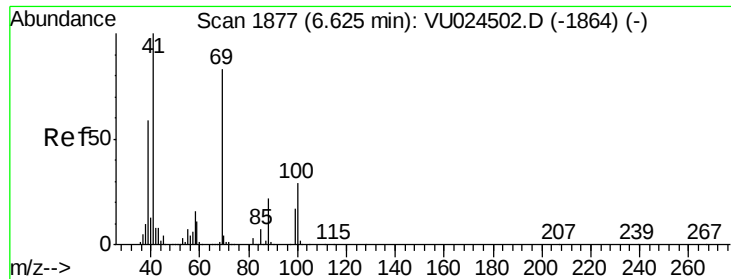


Abundance

Ion 129.80 (129.50 to 130.50): VU024852.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024852.D (-1649) (-)

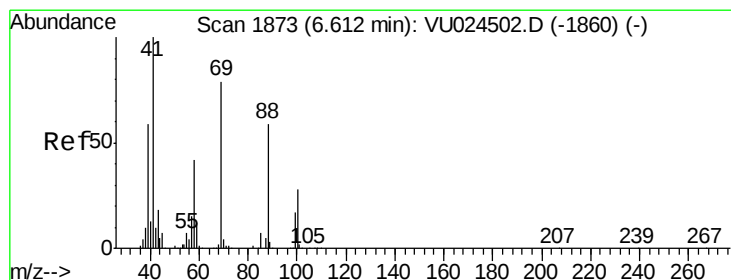
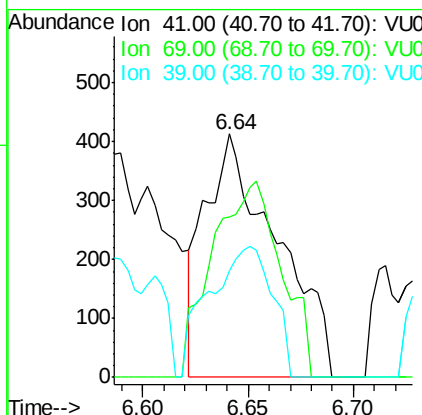
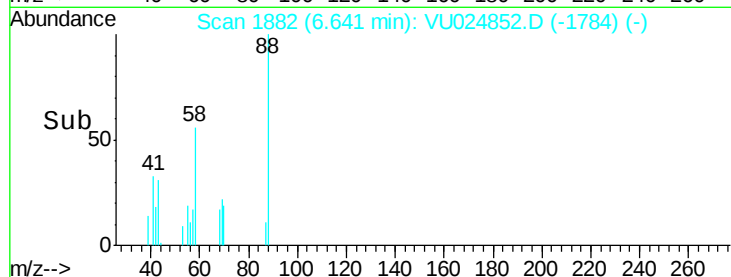
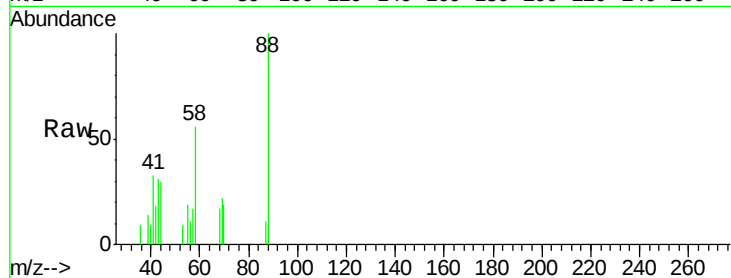
Time-->



#48
Methvl methacrylate
Concen: 0.30 ug/l
RT: 6.64 min Scan# 1882
Delta R.T. 0.02 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

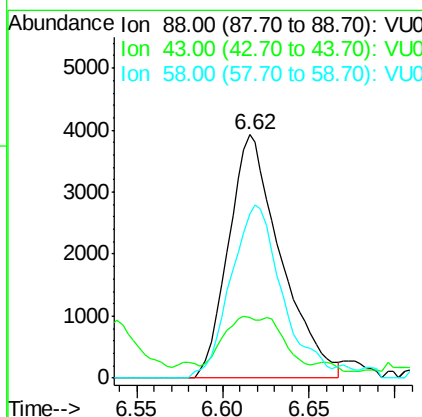
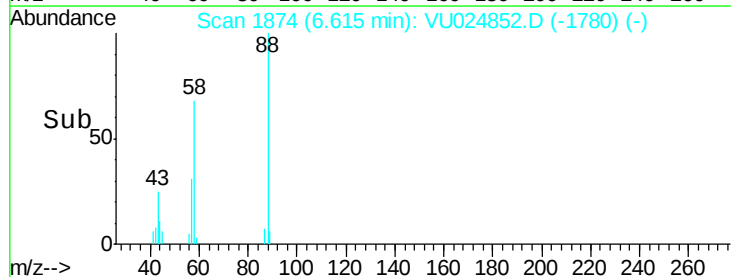
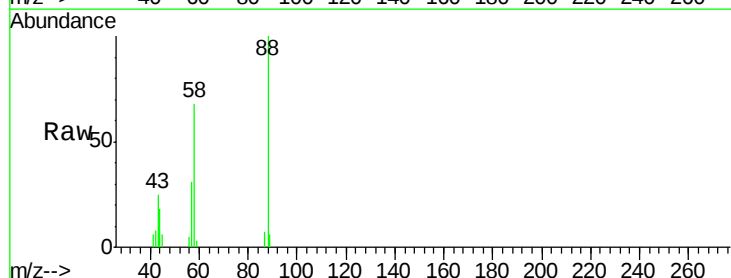
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

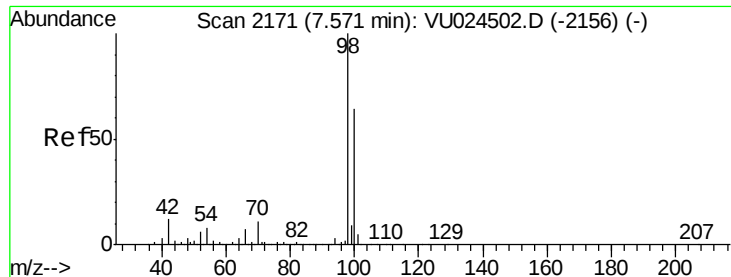
Tot Ion: 41 Resp: 975
Ion Ratio Lower Upper
41 100
69 77.2 67.3 100.9
39 47.8 46.5 69.7



#49
1,4-Dioxane
Concen: 130.05 ug/l
RT: 6.62 min Scan# 1874
Delta R.T. 0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion: 88 Resp: 8261
Ion Ratio Lower Upper
88 100
43 12.3 28.6 42.8#
58 69.9 58.2 87.4

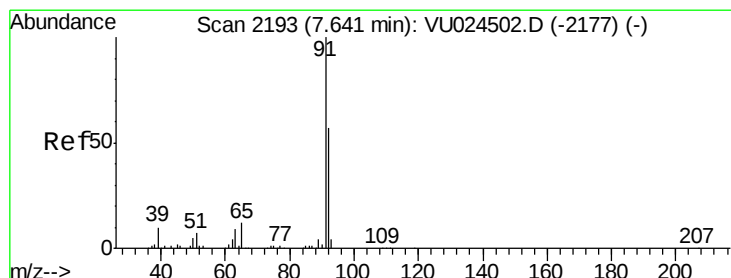
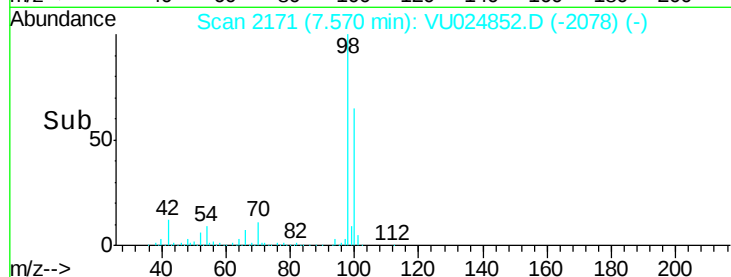
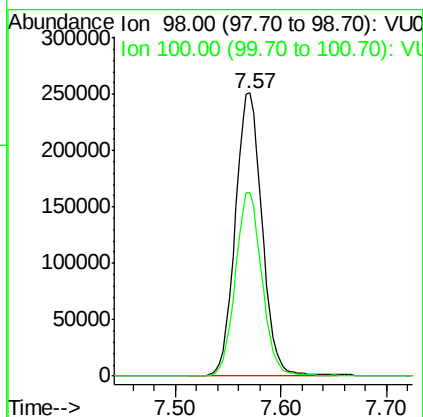
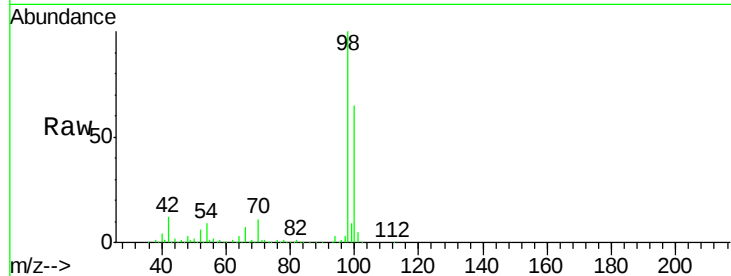




#50
Toluene-d8
Concen: 48.49 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

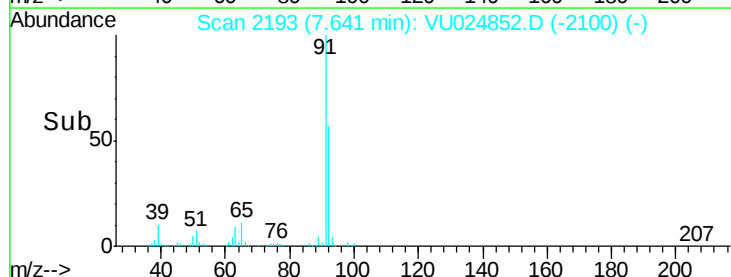
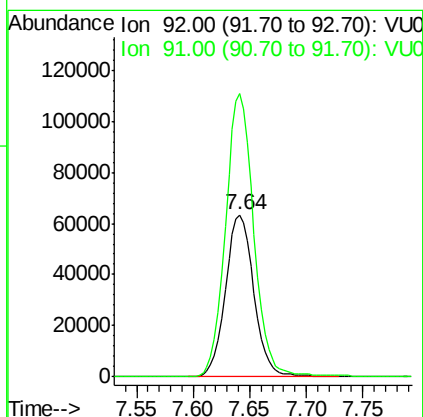
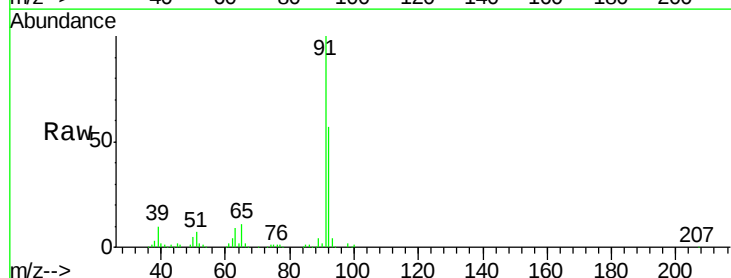
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

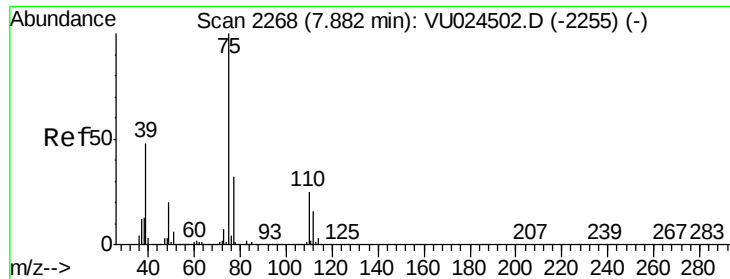
Tot Ion: 98 Resp: 442307
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



#52
Toluene
Concen: 17.11 ug/l
RT: 7.64 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion: 92 Resp: 111086
Ion Ratio Lower Upper
92 100
91 173.0 140.5 210.7





#53

t-1,3-Dichloropropene

Concen: 0.31 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.24 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

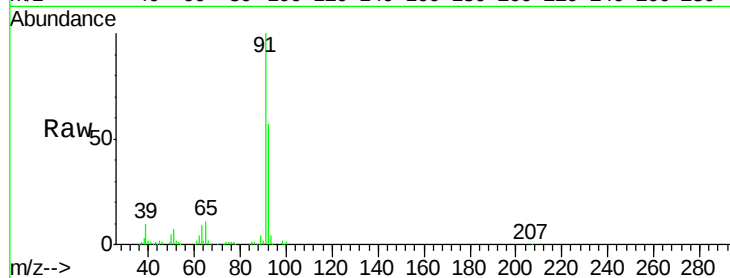
WP021MW345-180618

Tot Ion: 75 Resp: 1324

Ion Ratio Lower Upper

75 100

77 137.4 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

1500

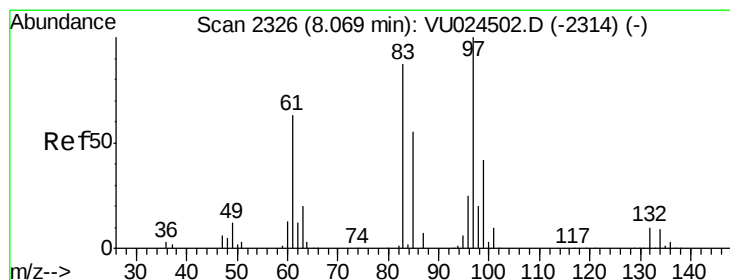
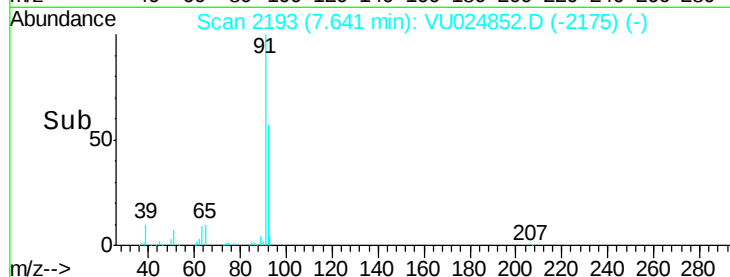
1000

500

0

7.60 7.65

Time-->



#55

1,1,2-Trichloroethane

Concen: 5.36 ug/l

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Tgt Ion: 97 Resp: 14149

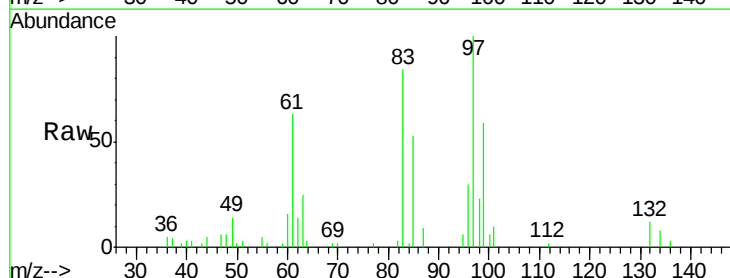
Ion Ratio Lower Upper

97 100

83 84.2 70.5 105.7

85 53.0 46.4 69.6

99 59.2 50.2 75.2



Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

10000

8000

6000

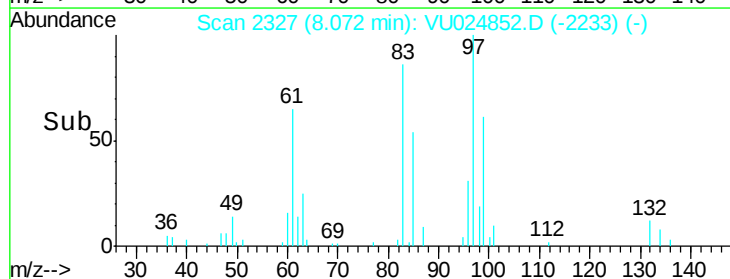
4000

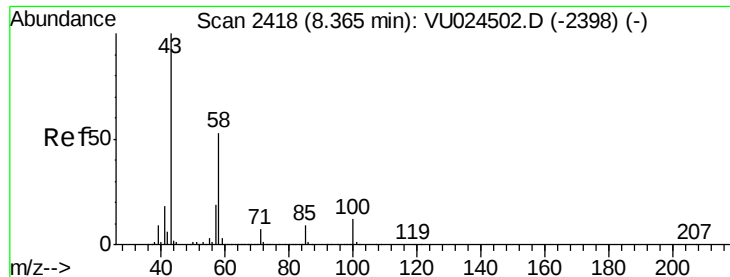
2000

0

8.00 8.05 8.10 8.15

Time-->





#59

2-Hexanone

Concen: 5.59 ug/l

RT: 8.17 min Scan# 2356

Delta R.T. -0.20 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

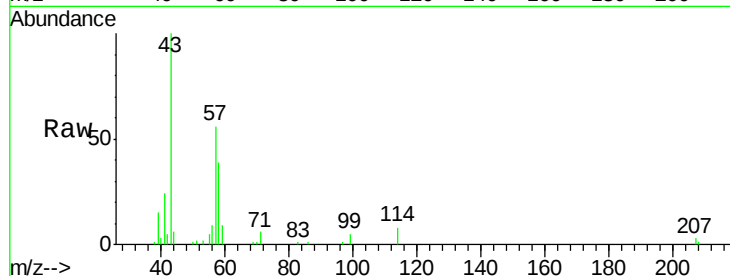
WP021MW345-180618

Tot Ion: 43 Resp: 19126

Ion Ratio Lower Upper

43 100

58 36.3 26.4 79.0



Abundance Ion 43.00 (42.70 to 43.70): VU024852.D (-2356) (-)

Ion 58.00 (57.70 to 58.70): VU024852.D (-2356) (-)

8.17

12000

10000

8000

6000

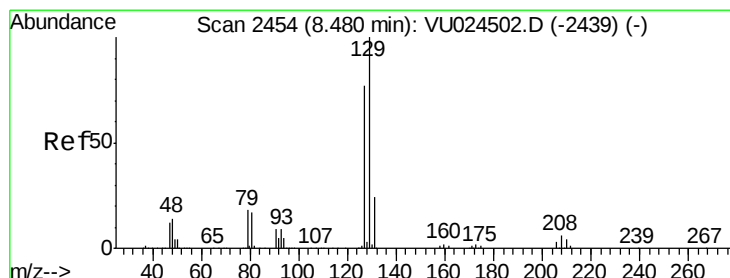
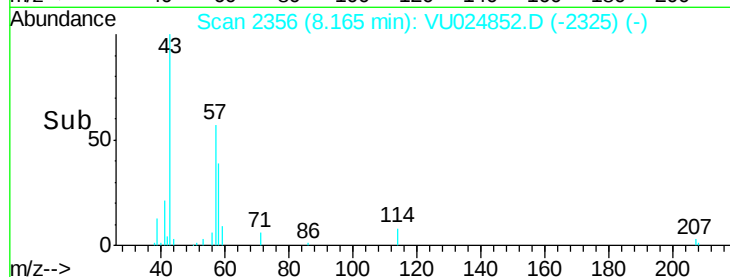
4000

2000

0

Time-->

8.10 8.15 8.20



#60

Dibromochloromethane

Concen: 0.52 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU024852.D

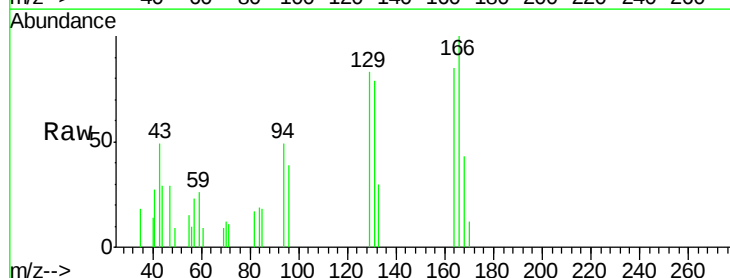
Acq: 22 Jun 2018 23:28

Tgt Ion: 129 Resp: 1726

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): VU024852.D (-2377) (-)

Ion 126.80 (126.50 to 127.50): VU024852.D (-2377) (-)

8.23

1200

1000

800

600

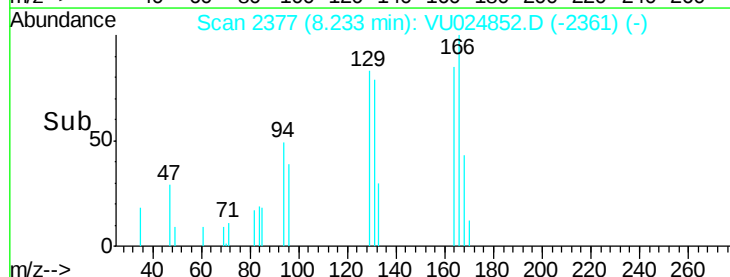
400

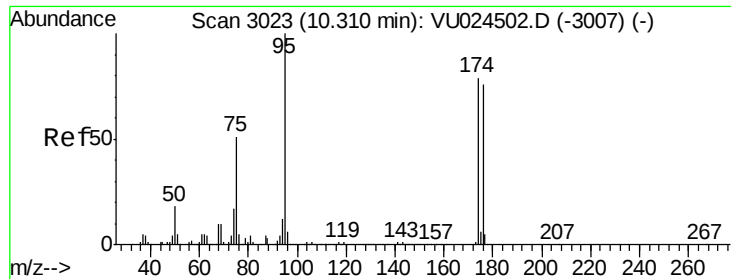
200

0

Time-->

8.20 8.25





#62

4-Bromofluorobenzene

Concen: 47.27 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

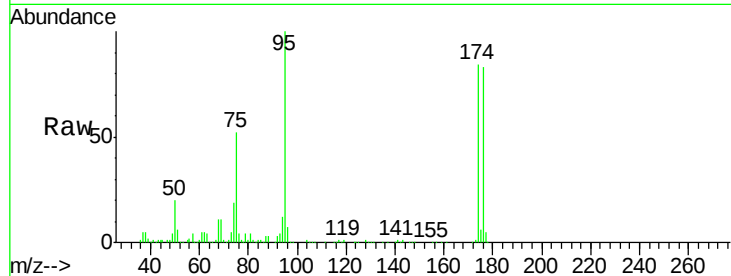
Tot Ion: 95 Resp: 171181

Ion Ratio Lower Upper

95 100

174 85.2 0.0 165.8

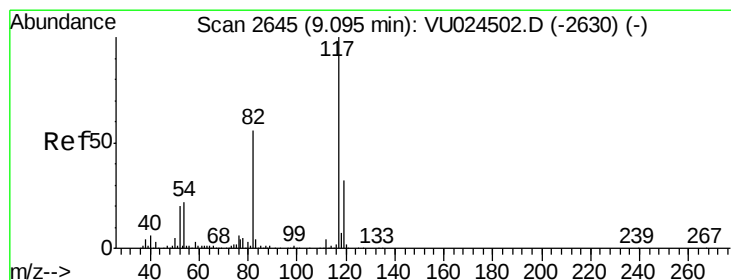
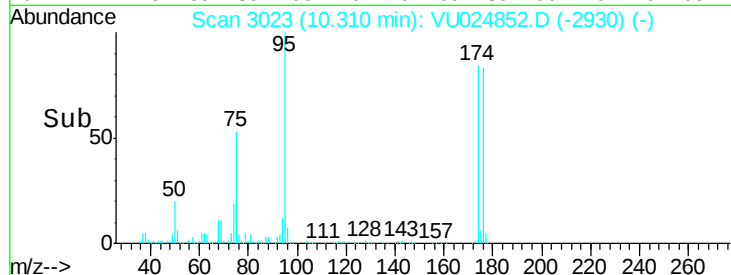
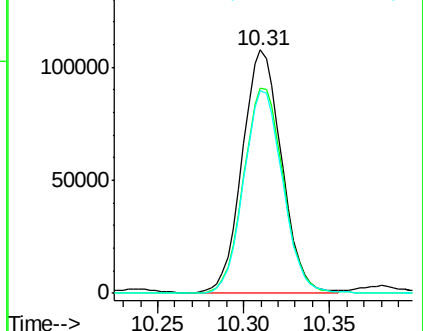
176 82.8 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024852.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU024852.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU024852.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

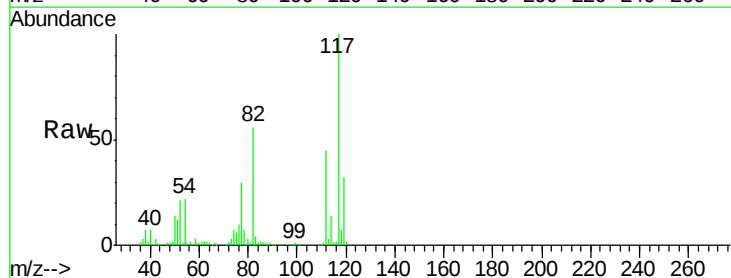
Tgt Ion: 117 Resp: 289400

Ion Ratio Lower Upper

117 100

82 56.4 44.3 66.5

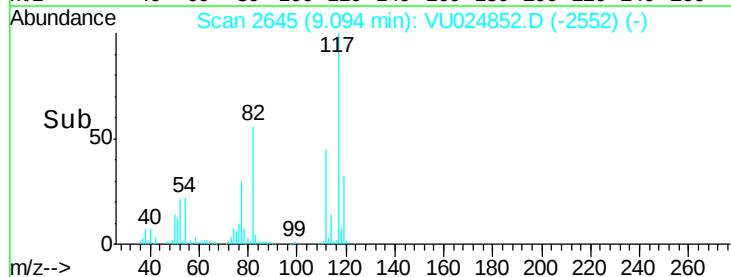
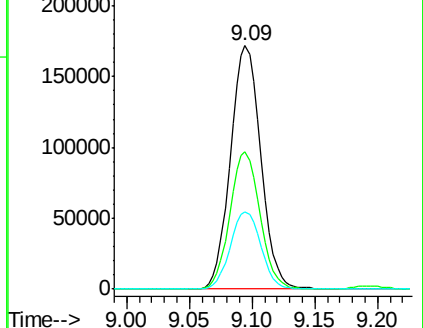
119 31.9 25.4 38.2

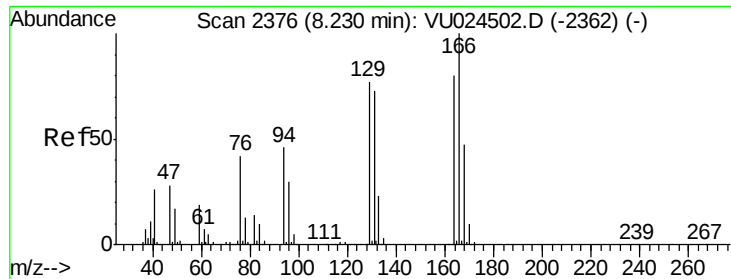


Abundance Ion 116.90 (116.60 to 117.60): VU024852.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU024852.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU024852.D (-2552) (-)





#64

Tetrachloroethene

Concen: 0.68 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

Tot Ion:164 Resp: 1883

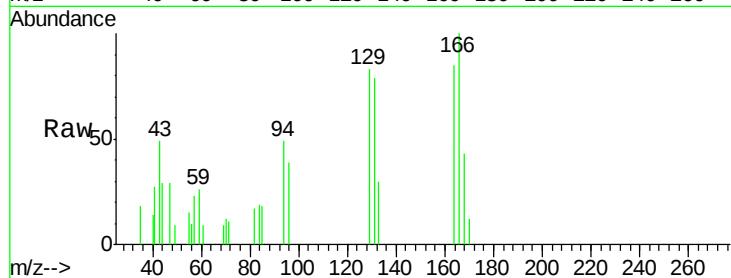
Ion Ratio Lower Upper

164 100

166 117.4 101.7 152.5

129 97.5 76.9 115.3

131 92.8 74.9 112.3

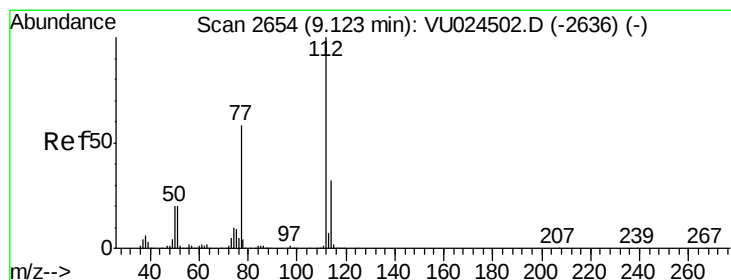
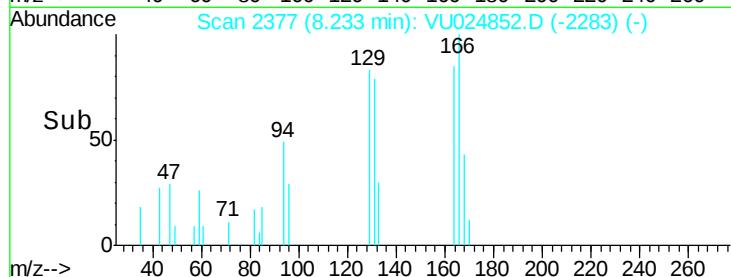
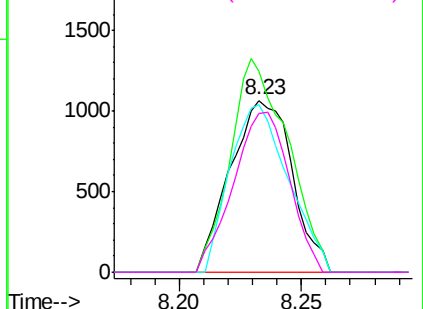


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 846.07 ug/l

RT: 9.13 min Scan# 2655

Delta R.T. 0.00 min

Lab File: VU024852.D

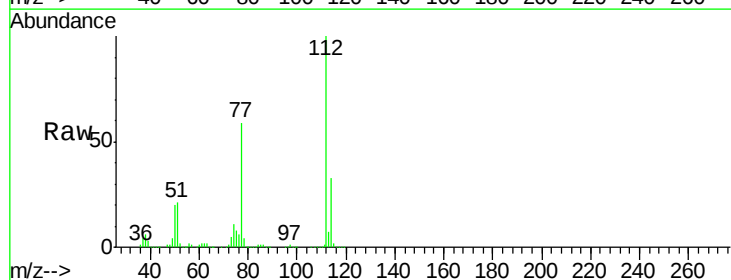
Acq: 22 Jun 2018 23:28

Tgt Ion:112 Resp: 6255062

Ion Ratio Lower Upper

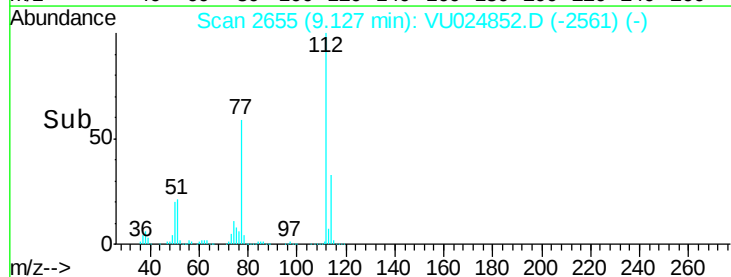
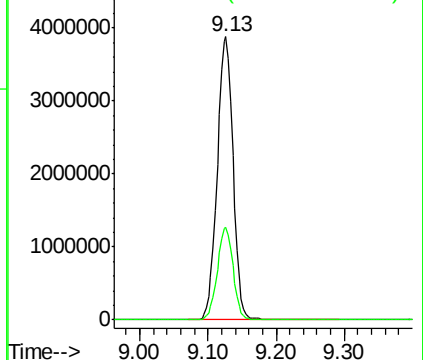
112 100

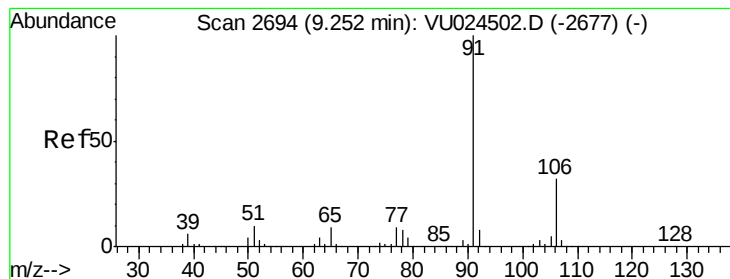
114 32.7 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#67

Ethyl Benzene

Concen: 8.13 ug/l

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

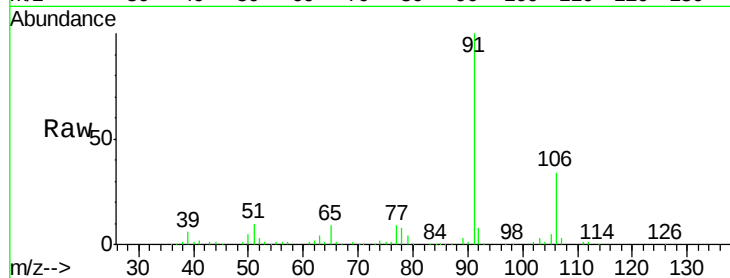
WP021MW345-180618

Tot Ion: 91 Resp: 105392

Ion Ratio Lower Upper

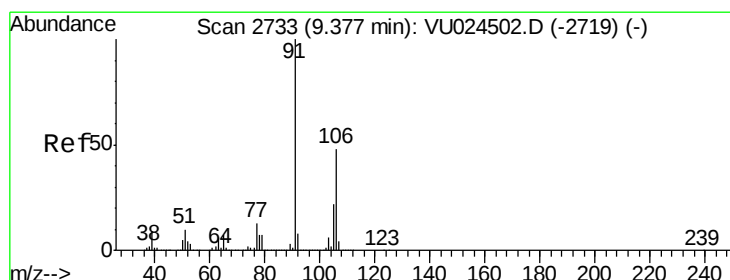
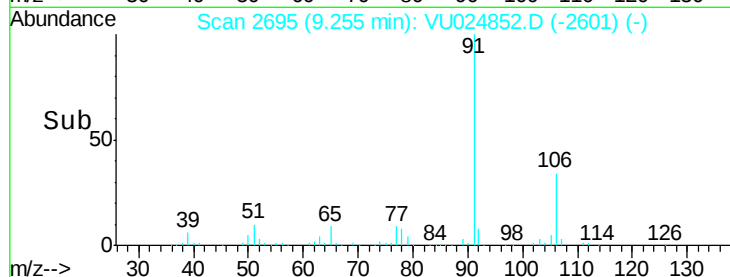
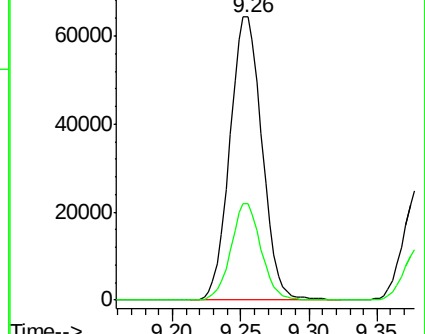
91 100

106 33.9 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VU024852.D (-2677) (-)

Ion 106.00 (105.70 to 106.70): VU024852.D (-2677) (-)



#68

m/p-Xylenes

Concen: 3.95 ug/l

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU024852.D

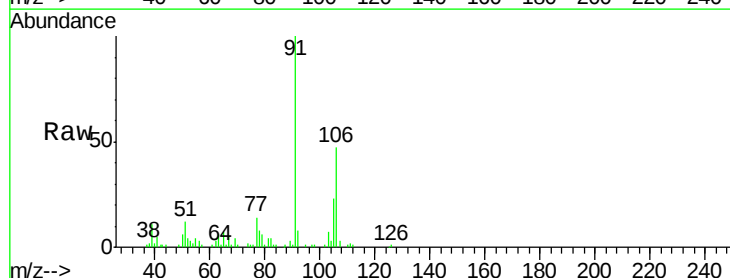
Acq: 22 Jun 2018 23:28

Tgt Ion: 106 Resp: 19661

Ion Ratio Lower Upper

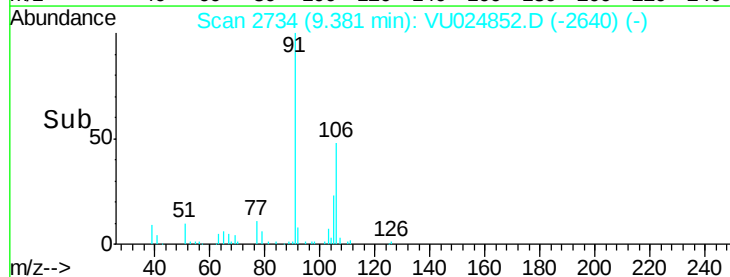
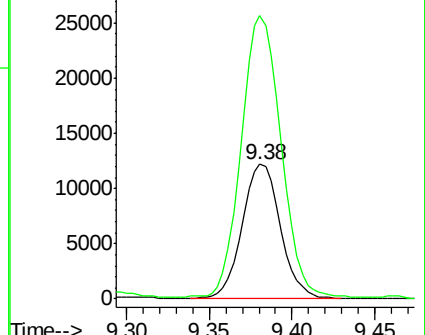
106 100

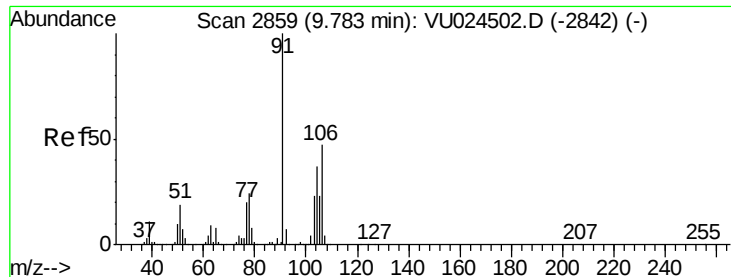
91 214.3 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): VU024852.D (-2719) (-)

Ion 91.00 (90.70 to 91.70): VU024852.D (-2719) (-)

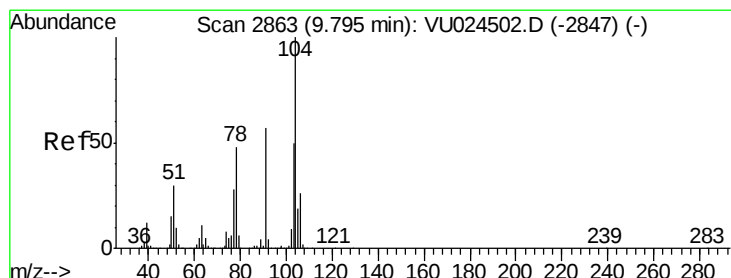
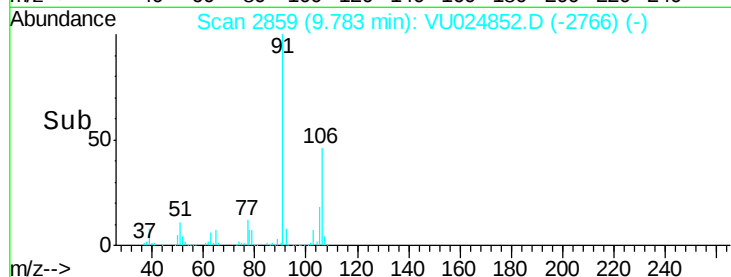
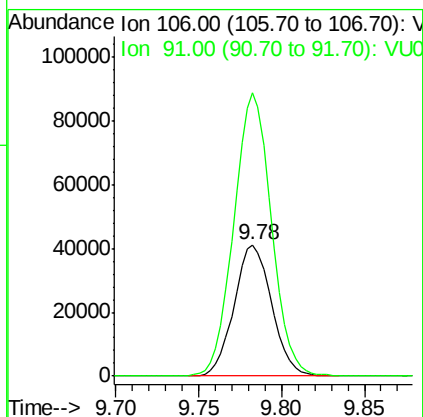
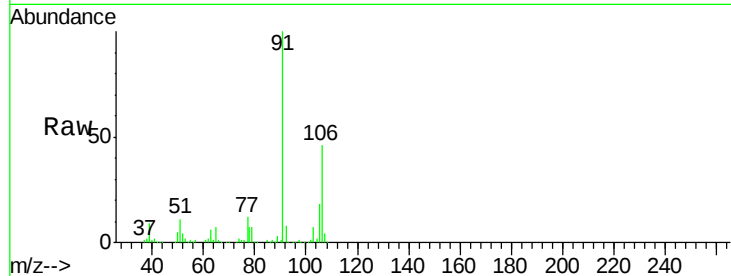




#69
o-Xylene
Concen: 13.17 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

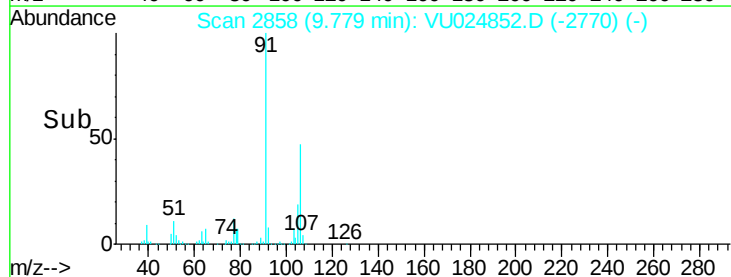
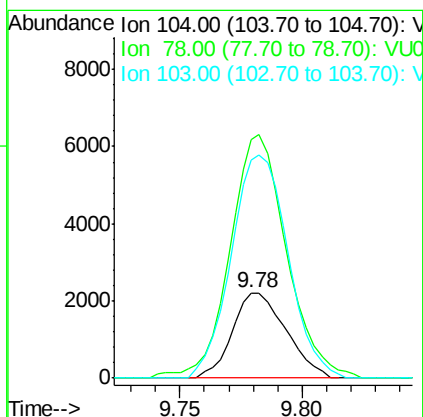
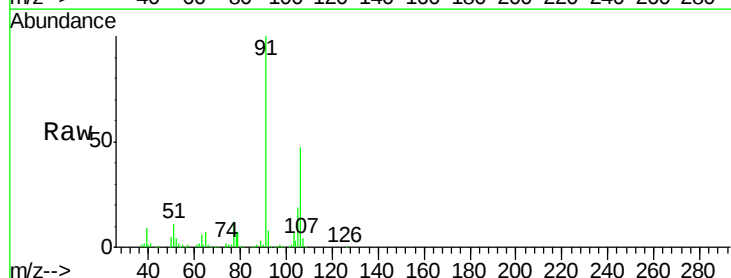
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

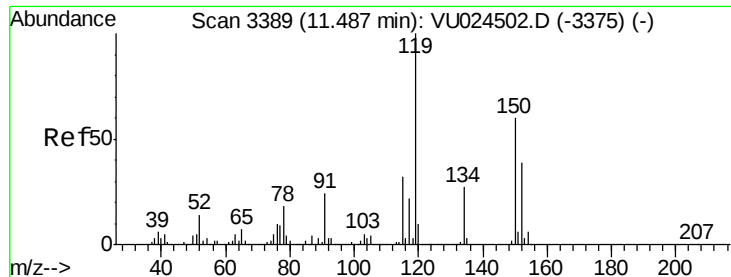
Tot Ion:106 Resp: 64854
Ion Ratio Lower Upper
106 100
91 215.7 110.7 331.9



#70
Styrene
Concen: 0.41 ug/l
RT: 9.78 min Scan# 2858
Delta R.T. -0.02 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion:104 Resp: 3359
Ion Ratio Lower Upper
104 100
78 301.8 40.6 60.8#
103 278.4 44.7 67.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

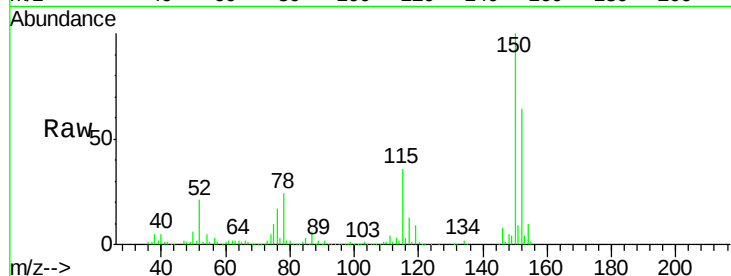
Tot Ion:152 Resp: 170696

Ion Ratio Lower Upper

152 100

115 57.7 43.0 129.0

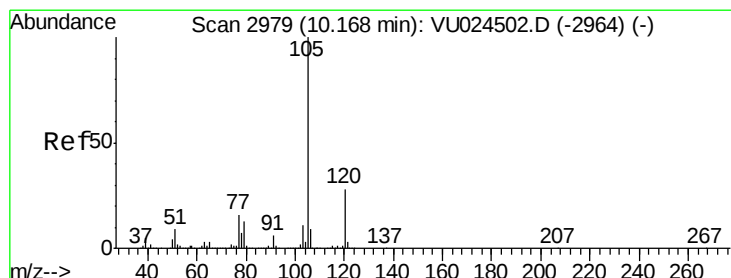
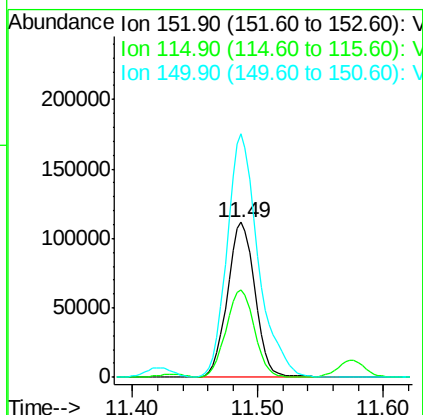
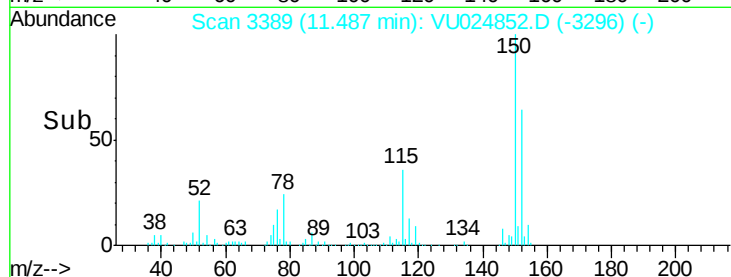
150 176.4 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 4.12 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU024852.D

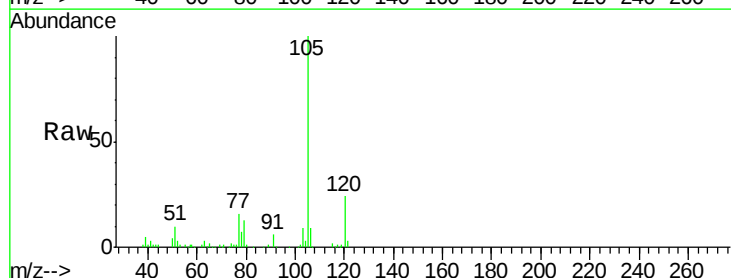
Acq: 22 Jun 2018 23:28

Tgt Ion:105 Resp: 54051

Ion Ratio Lower Upper

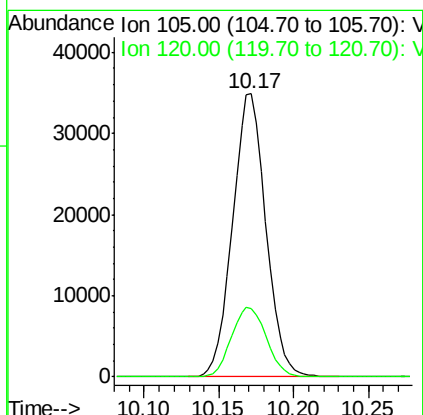
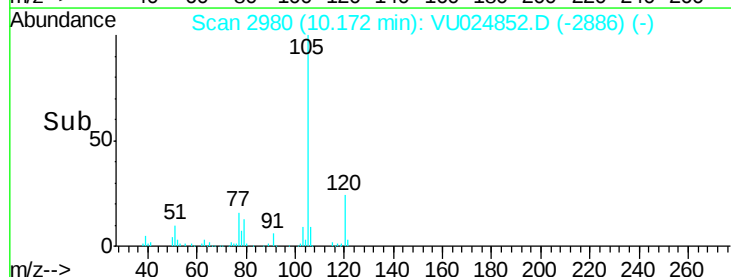
105 100

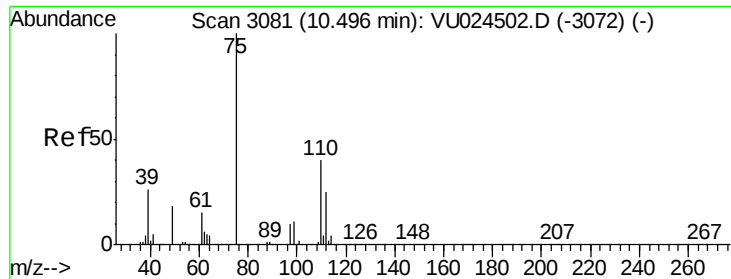
120 25.7 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

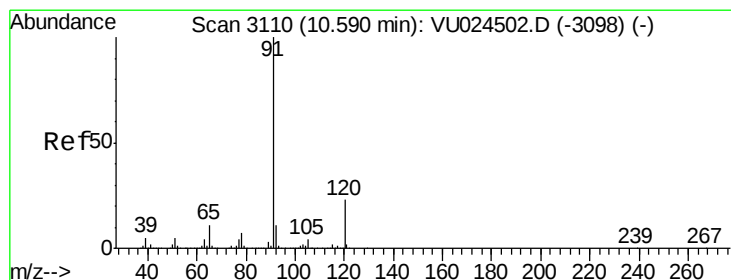
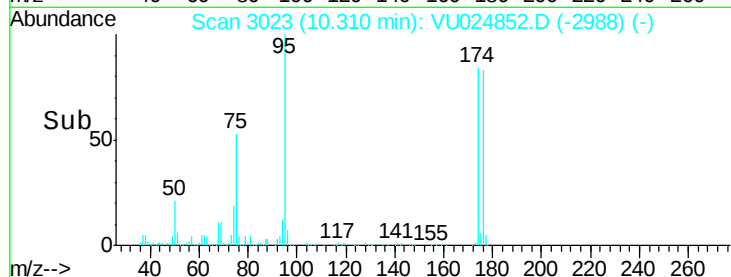
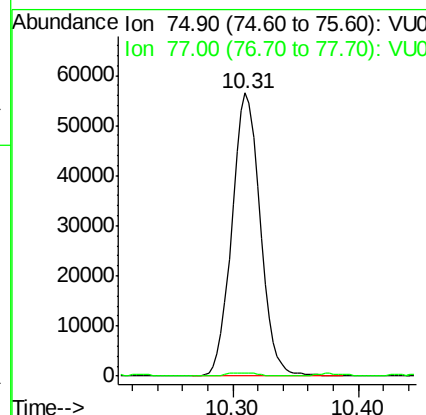
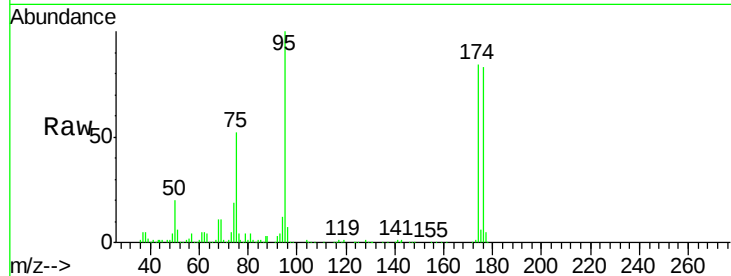




#76
 1,2,3-Trichloropropane
 Concen: 23.55 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

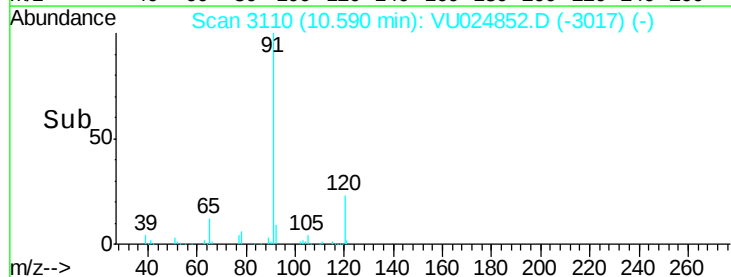
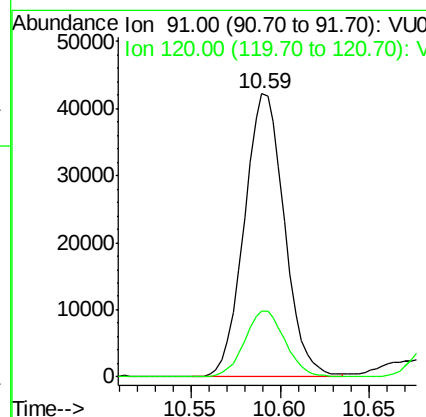
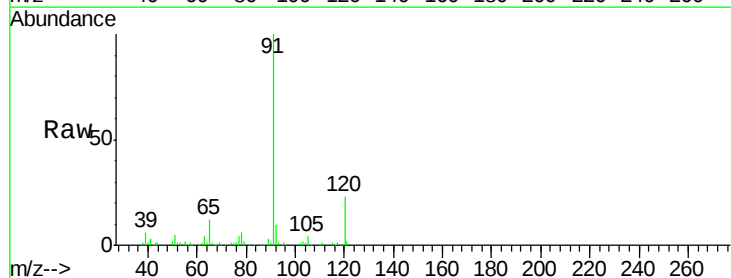
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

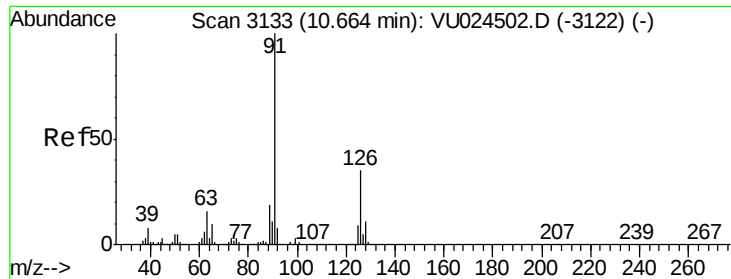
Tot Ion: 75 Resp: 88499
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.7#



#78
 n-propylbenzene
 Concen: 4.31 ug/l
 RT: 10.59 min Scan# 3110
 Delta R.T. -0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Tgt Ion: 91 Resp: 66462
 Ion Ratio Lower Upper
 91 100
 120 23.4 11.2 33.5

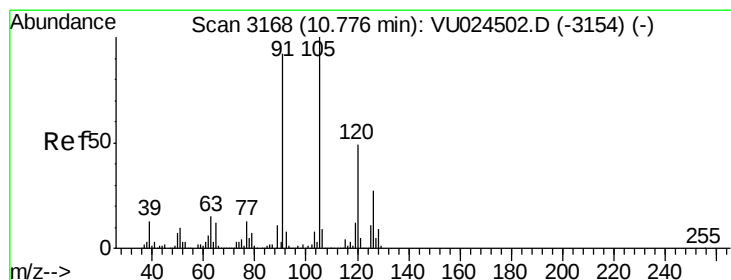
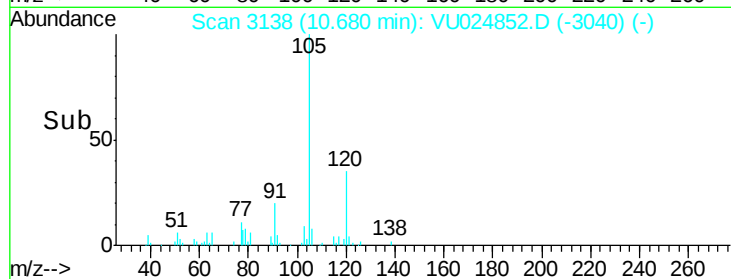
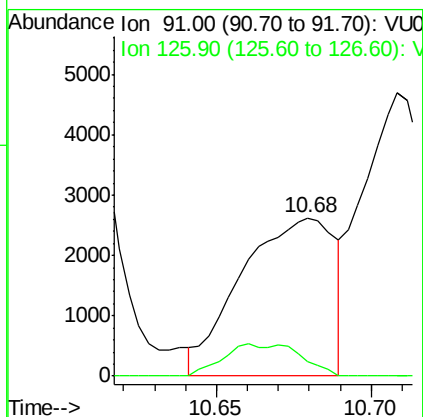
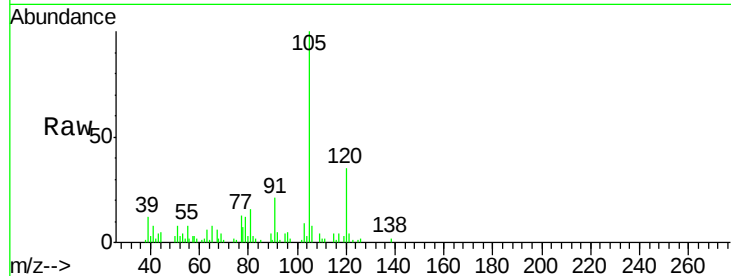




#79
 2-Chlorotoluene
 Concen: 0.60 ug/l
 RT: 10.68 min Scan# 3138
 Delta R.T. 0.02 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

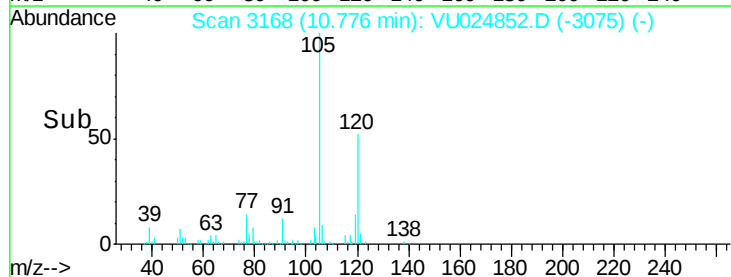
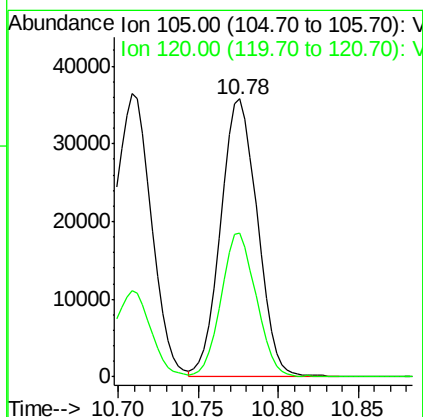
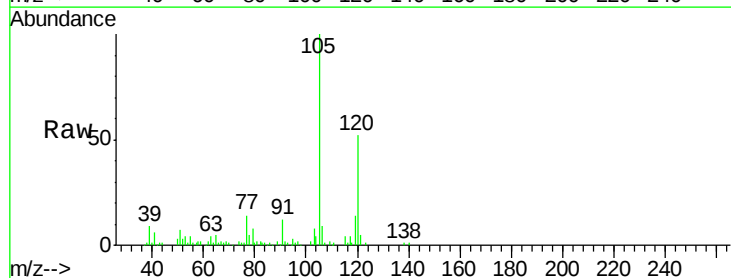
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

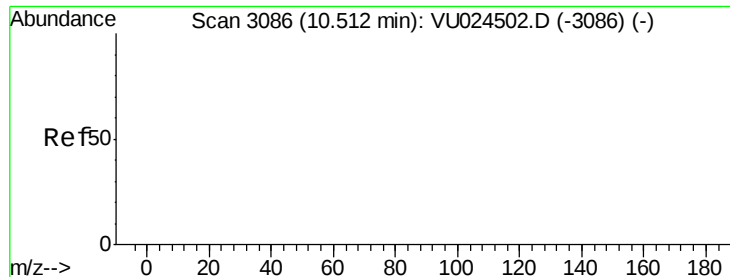
Tot Ion: 91 Resp: 5500
 Ion Ratio Lower Upper
 91 100
 126 16.7 16.9 50.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 4.97 ug/l
 RT: 10.78 min Scan# 3168
 Delta R.T. -0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Tgt Ion: 105 Resp: 56401
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 54.50 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

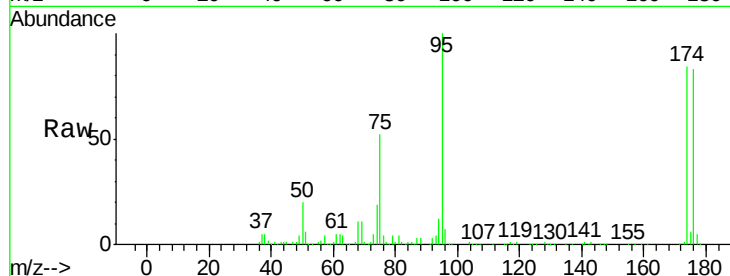
Tot Ion: 75 Resp: 88499

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

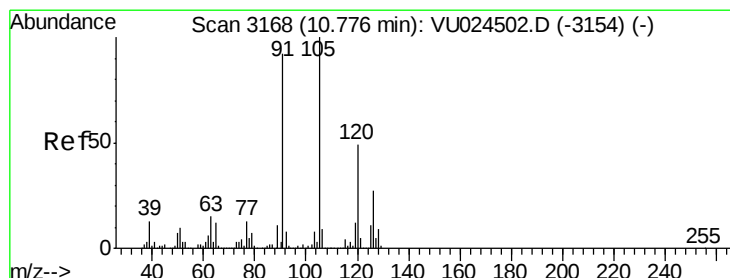
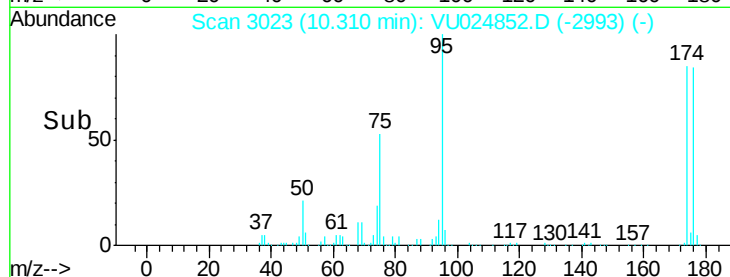
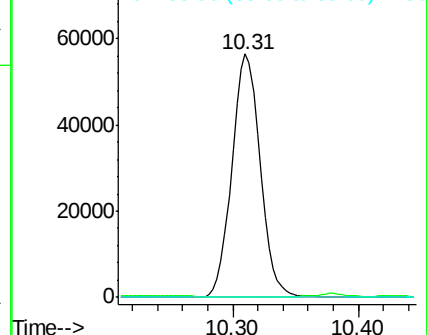
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#82

4-Chlorotoluene

Concen: 0.52 ug/l

RT: 10.68 min Scan# 3138

Delta R.T. -0.10 min

Lab File: VU024852.D

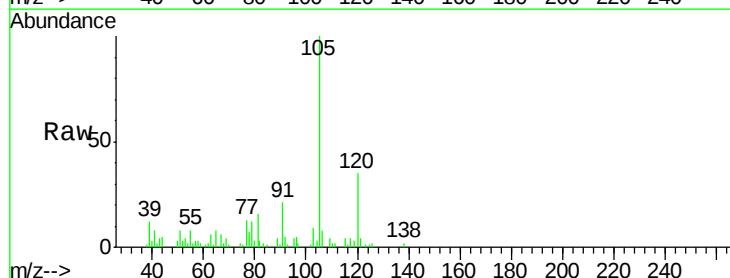
Acq: 22 Jun 2018 23:28

Tgt Ion: 91 Resp: 5500

Ion Ratio Lower Upper

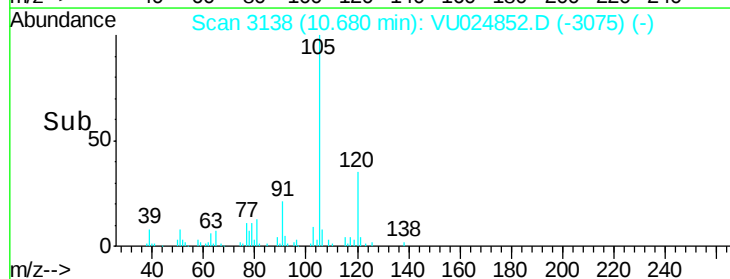
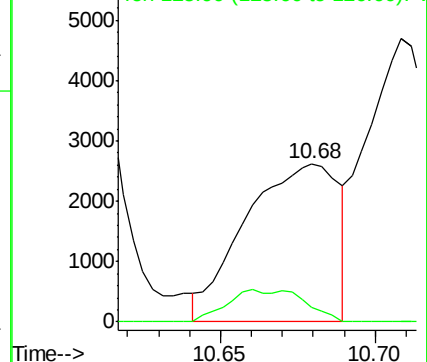
91 100

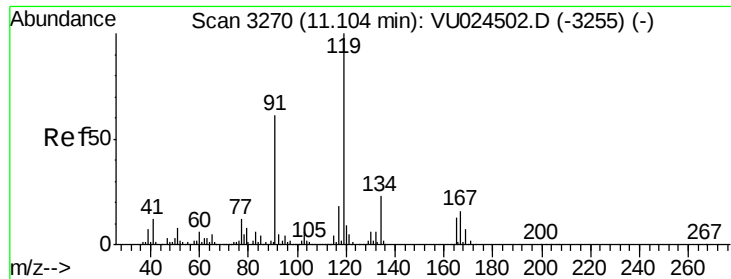
126 16.7 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

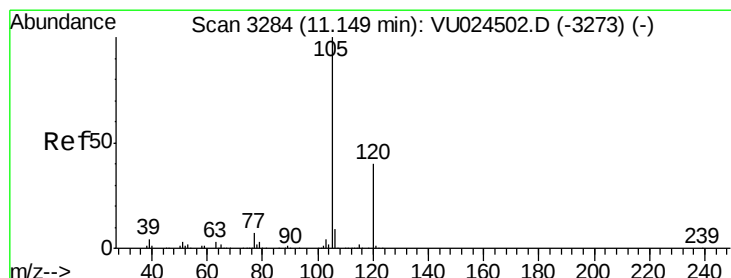
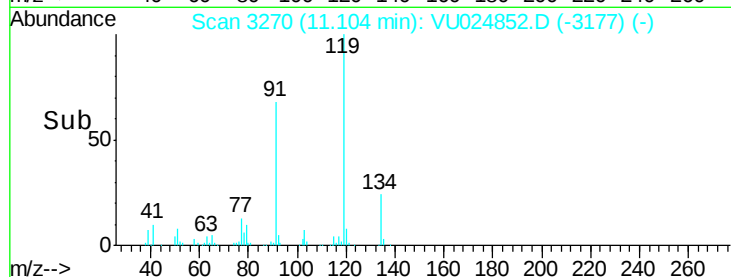
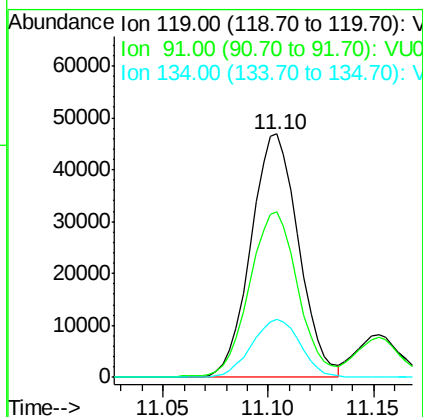
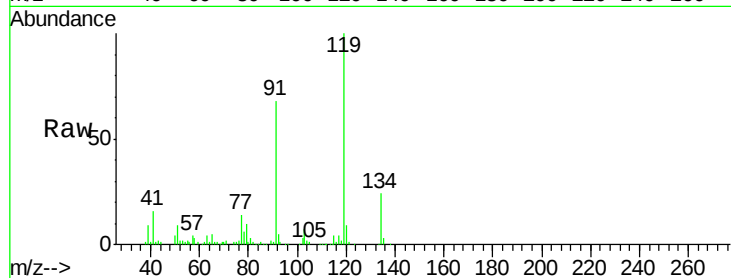




#83
tert-Butylbenzene
Concen: 6.75 ug/l
RT: 11.10 min Scan# 3270
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

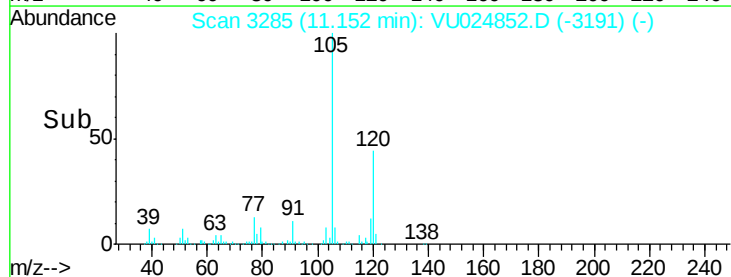
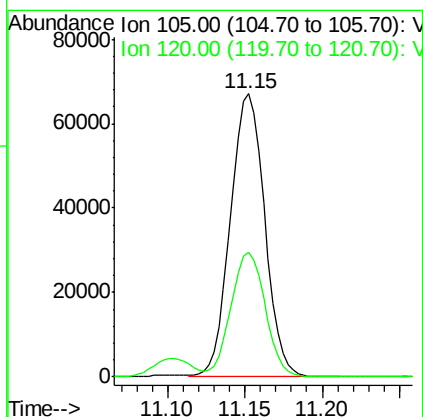
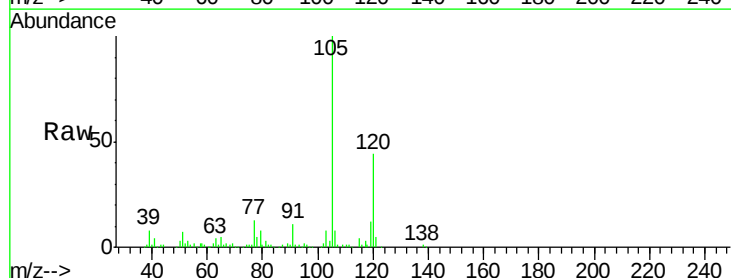
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

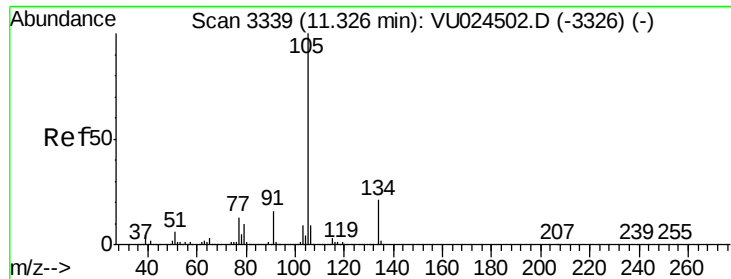
Tot Ion:119 Resp: 73781
Ion Ratio Lower Upper
119 100
91 69.7 29.7 89.1
134 24.3 11.6 34.7



#84
1,2,4-Trimethylbenzene
Concen: 8.85 ug/l
RT: 11.15 min Scan# 3285
Delta R.T. 0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion:105 Resp: 102400
Ion Ratio Lower Upper
105 100
120 44.4 22.6 67.8





#85

sec-Butylbenzene

Concen: 6.16 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

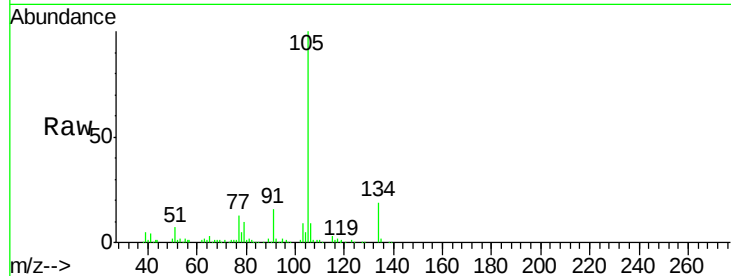
WP021MW345-180618

Tot Ion:105 Resp: 84203

Ion Ratio Lower Upper

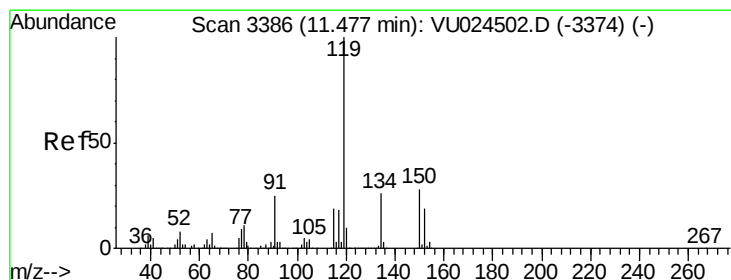
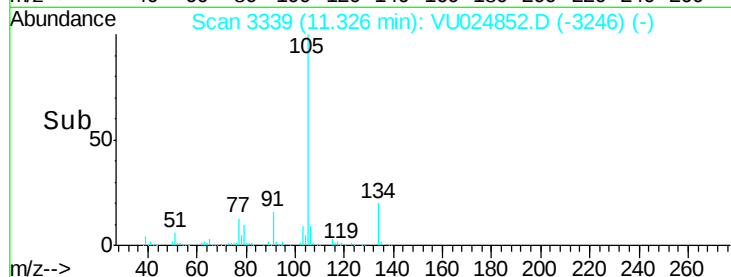
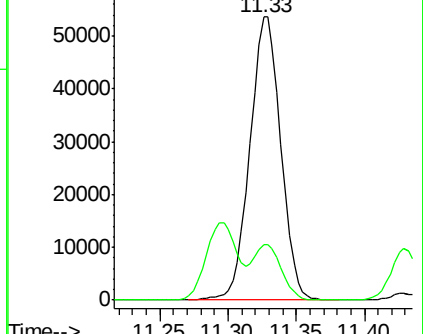
105 100

134 18.1 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.66 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

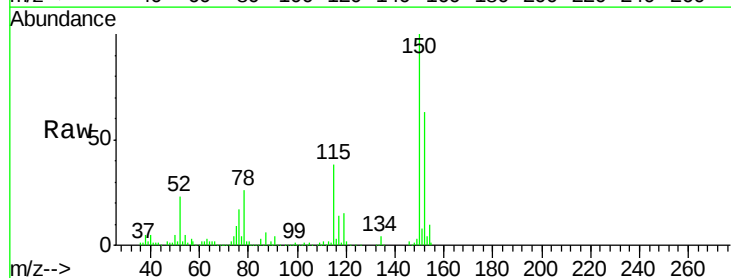
Tgt Ion:119 Resp: 32555

Ion Ratio Lower Upper

119 100

134 25.8 12.9 38.6

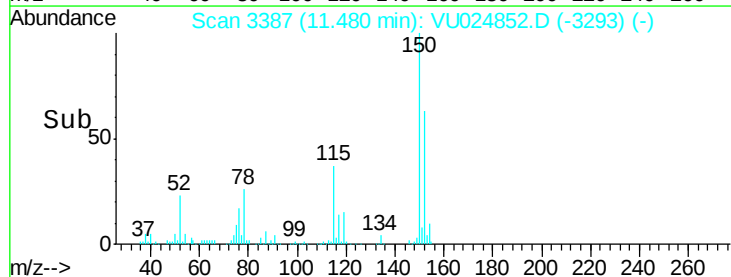
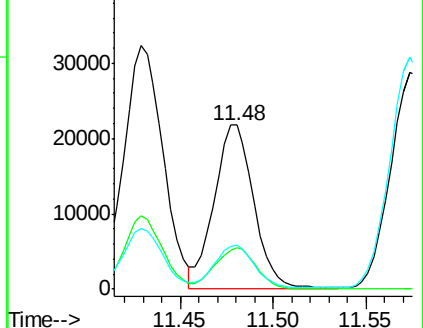
91 26.3 12.0 36.1

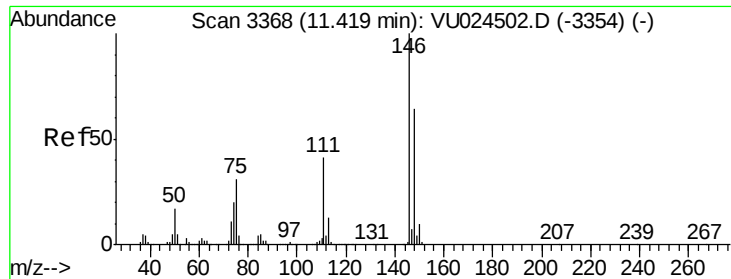


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0

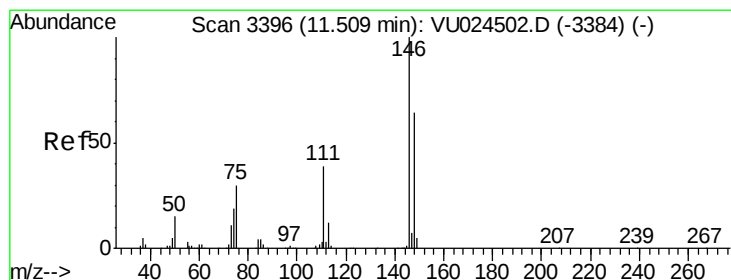
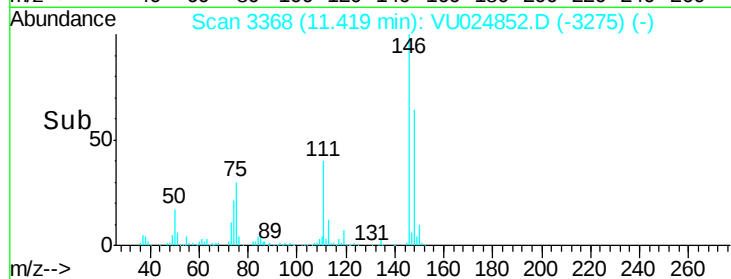
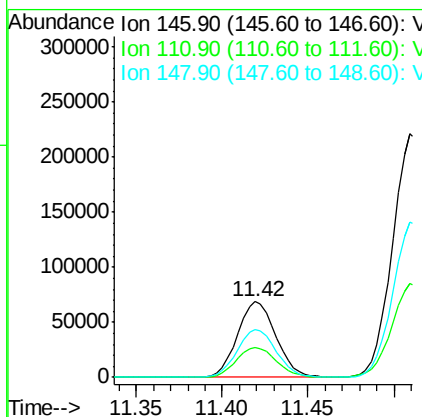
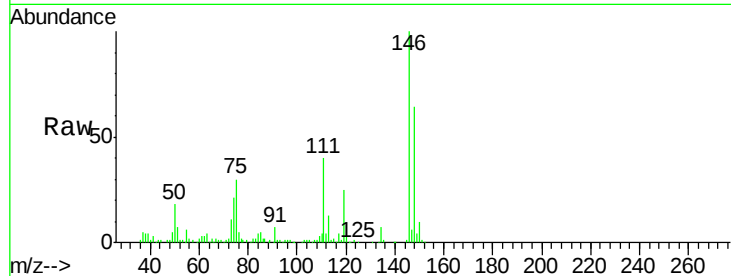




#87
 1,3-Dichlorobenzene
 Concen: 17.44 ug/l
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

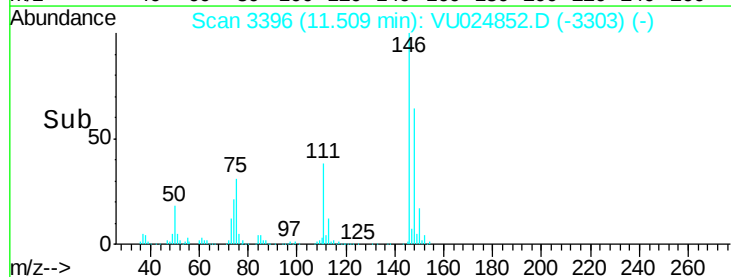
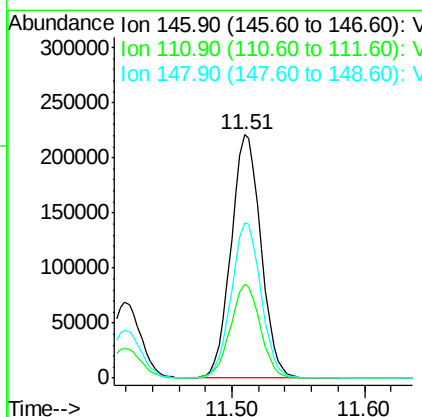
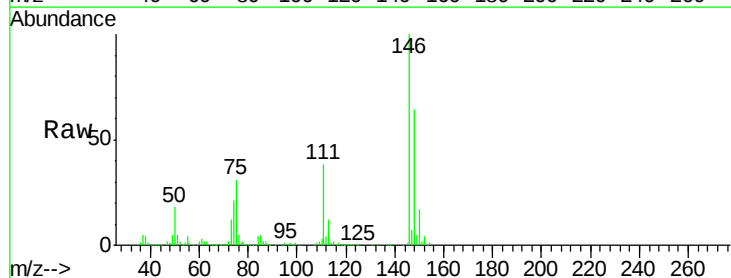
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

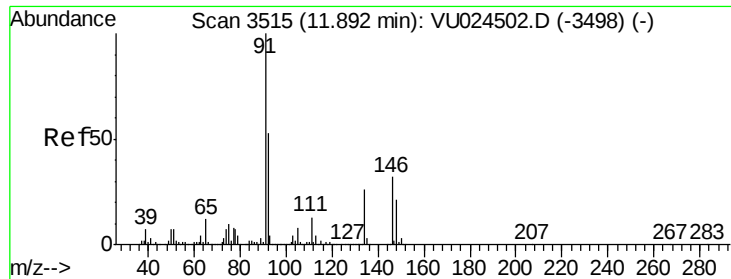
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.0	60.0
148	64.6	32.1	96.5



#88
 1,4-Dichlorobenzene
 Concen: 55.79 ug/l
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.5	58.5
148	63.6	32.4	97.0

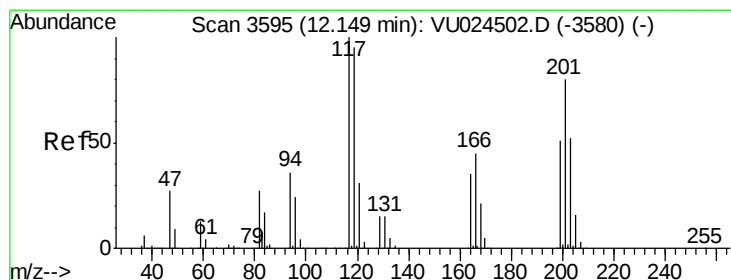
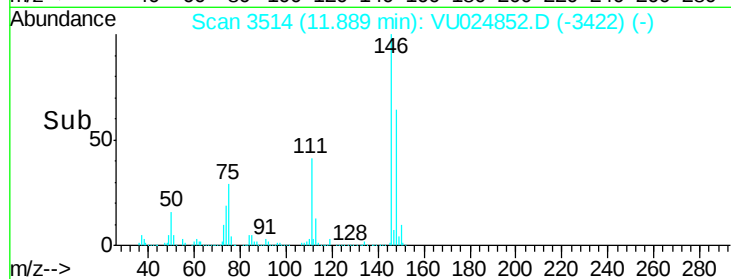
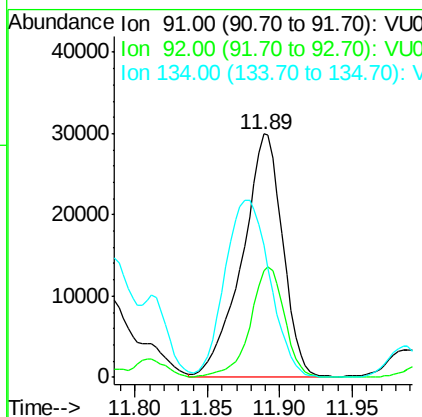
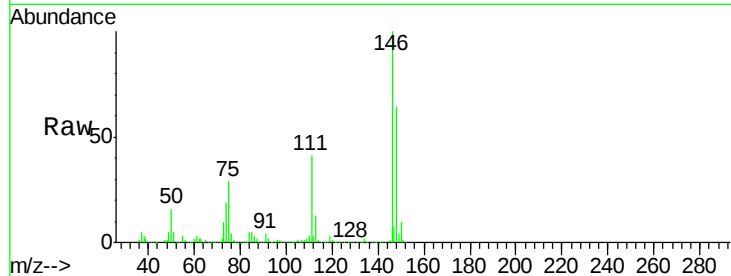




#89
n-Butylbenzene
Concen: 5.33 ug/l
RT: 11.89 min Scan# 3514
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

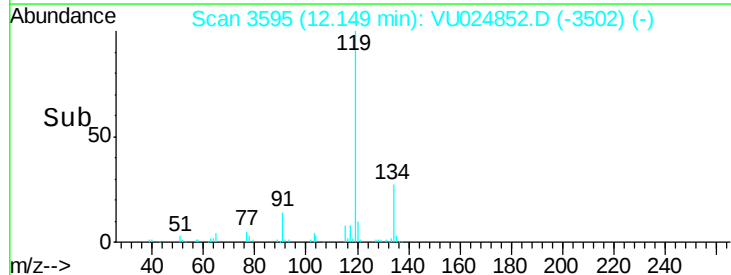
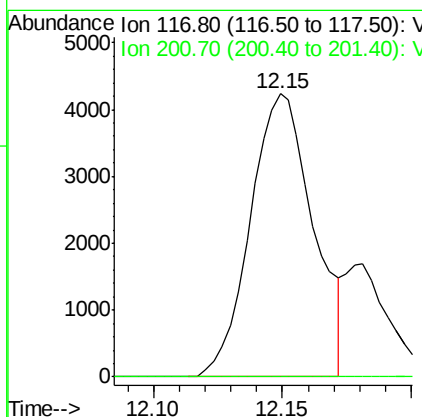
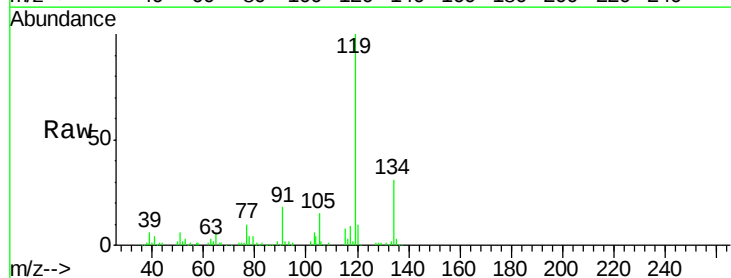
Instrument :
MSVOA_U
ClientSampleId :
WP021MW345-180618

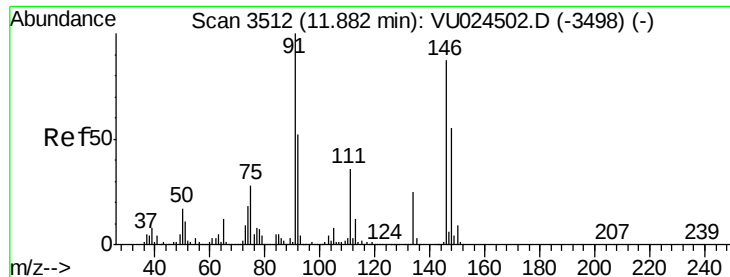
Tot Ion	Ratio	Lower	Upper
91	100		
92	38.7	25.6	76.8
134	81.3	12.3	36.8#



#90
Hexachloroethane
Concen: 3.02 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. -0.00 min
Lab File: VU024852.D
Acq: 22 Jun 2018 23:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	41.1	123.3#





#91

1,2-Dichlorobenzene

Concen: 246.02 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

Instrument :

MSVOA_U

ClientSampleId :

WP021MW345-180618

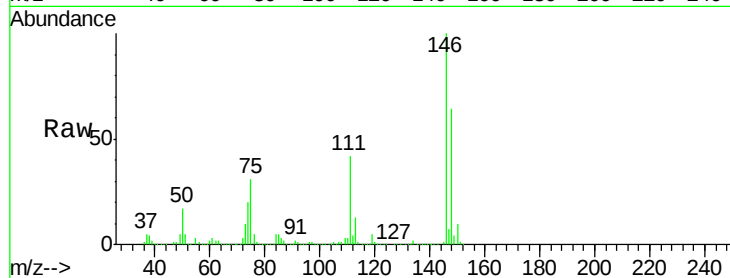
Tot Ion:146 Resp: 1510473

Ion Ratio Lower Upper

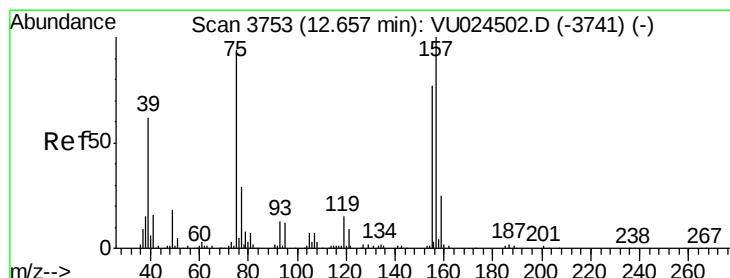
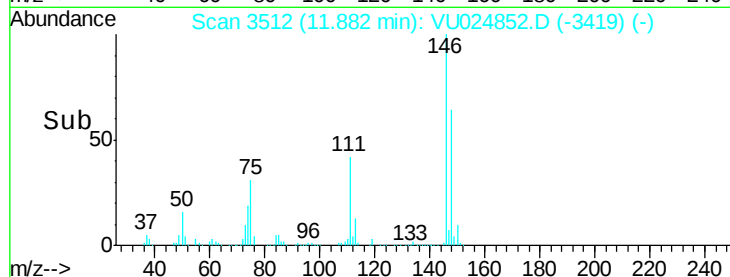
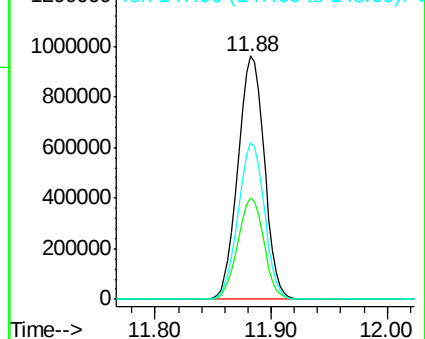
146 100

111 41.3 20.5 61.6

148 64.1 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.72 ug/l

RT: 12.65 min Scan# 3751

Delta R.T. -0.01 min

Lab File: VU024852.D

Acq: 22 Jun 2018 23:28

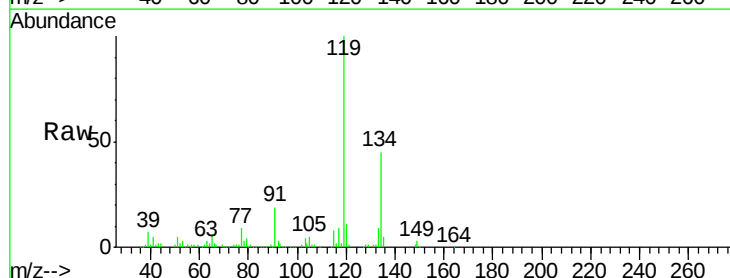
Tgt Ion: 75 Resp: 870

Ion Ratio Lower Upper

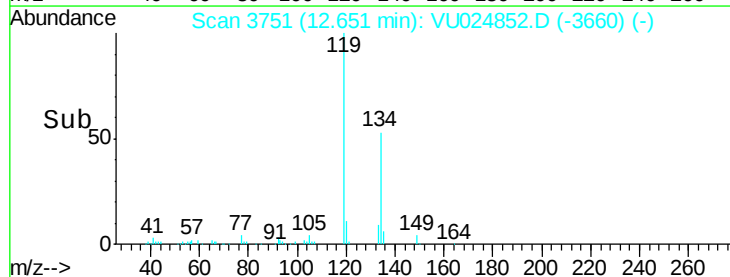
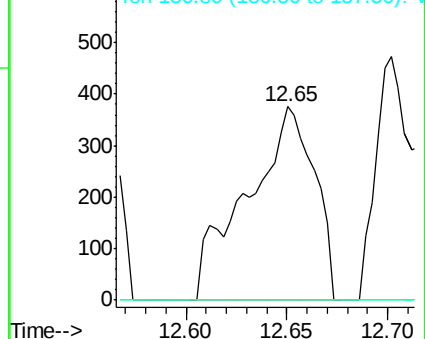
75 100

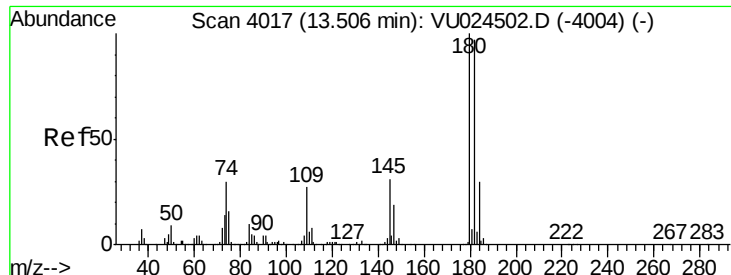
155 0.0 40.4 121.2#

157 0.0 52.3 156.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

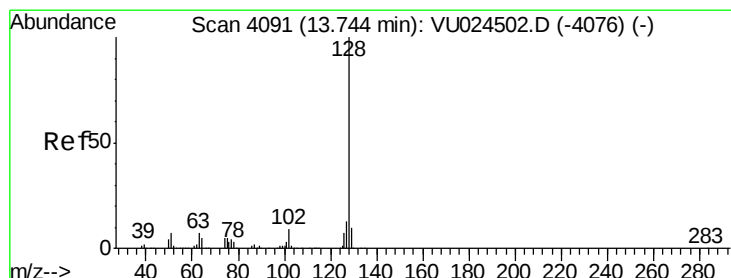
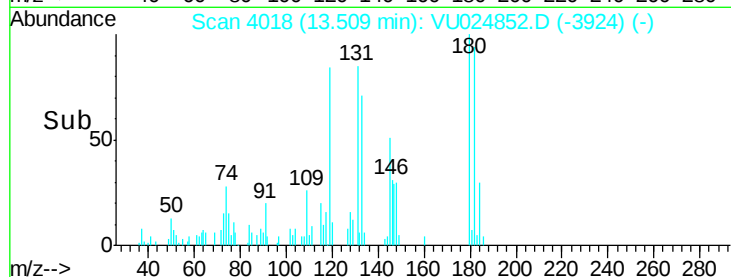
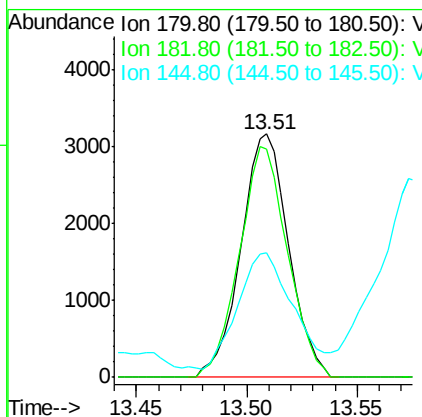
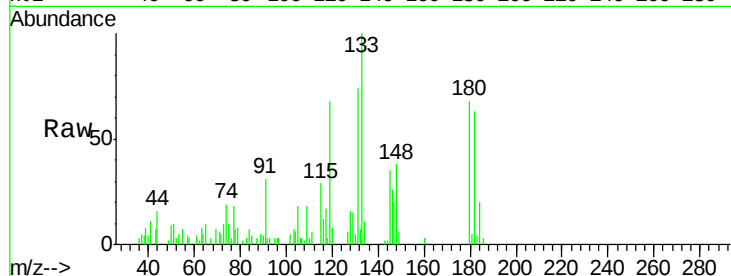




#93
 1,2,4-Trichlorobenzene
 Concen: 1.25 ug/l
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

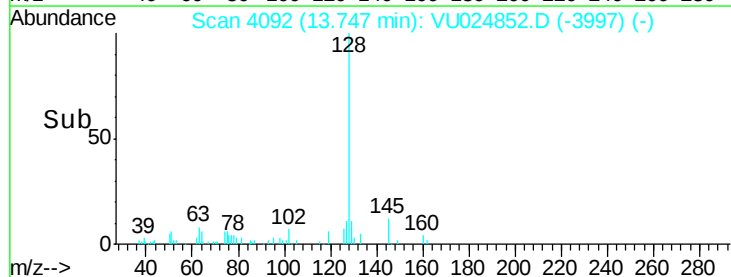
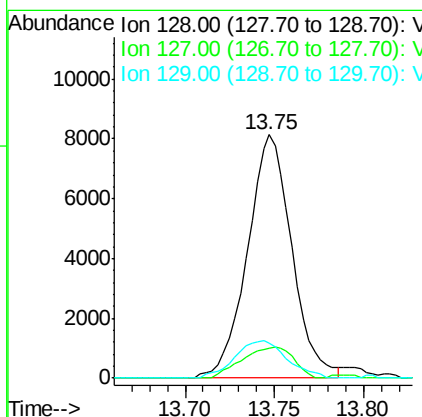
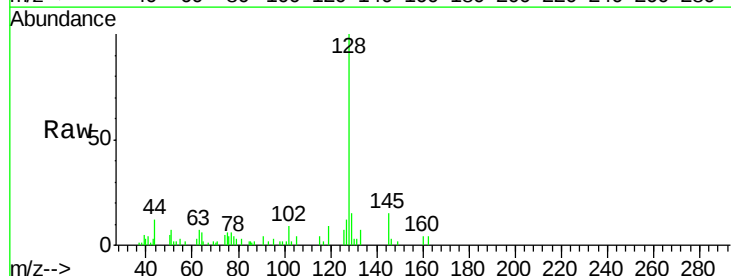
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

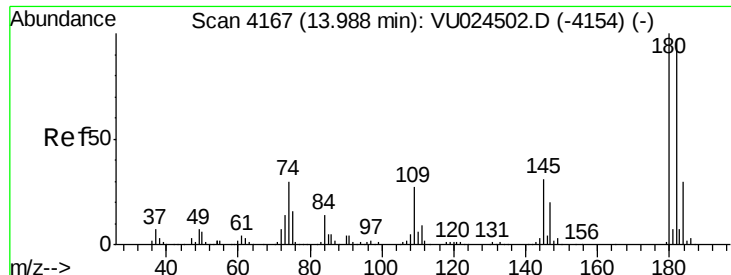
Tot Ion:180 Resp: 4724
 Ion Ratio Lower Upper
 180 100
 182 95.8 48.0 144.2
 145 55.7 14.7 44.1#



#95
 Naphthalene
 Concen: 1.79 ug/l
 RT: 13.75 min Scan# 4092
 Delta R.T. 0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Tgt Ion:128 Resp: 14115
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.6 16.0
 129 18.0 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.58 ug/l
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU024852.D
 Acq: 22 Jun 2018 23:28

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW345-180618

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.9	143.7
145	14.2	15.4	46.1

