

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070718\
 Data File : VU025253.D
 Acq On : 06 Jul 2018 20:30
 Operator : MD/SY
 Sample : J3808-03DL 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW473-180628DL

Quant Time: Jul 06 23:32:10 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	194207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	289662	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	272520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	140835	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	147769	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
35) Dibromofluoromethane	4.89	113	115491	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	7.57	98	421944	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
62) 4-Bromofluorobenzene	10.31	95	154871	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	767	0.309	ug/l	99
4) Vinyl Chloride	1.40	62	21728	8.484	ug/l	98
5) Bromomethane	1.64	94	303	0.245	ug/l	98
6) Chloroethane	1.52	64	307	Below Cal	#	43
10) Methyl Iodide	2.42	142	20	5.297	ug/l #	40
11) Tert butyl alcohol	2.84	59	572	0.742	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	865	0.391	ug/l	90
13) Acrolein	2.20	56	82	0.203	ug/l #	1
16) Acetone	2.33	43	689	0.404	ug/l #	44
20) Methylene Chloride	2.70	84	2508	0.938	ug/l #	78
27) cis-1,2-Dichloroethene	4.23	96	292745	104.549	ug/l	89
31) Cyclohexane	4.99	56	3976	Below Cal	#	11
36) 1,1-Dichloropropene	4.99	75	14273	4.193	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18619	4.974	ug/l #	16
39) Methylcyclohexane	6.19	83	2798	0.659	ug/l #	1
44) Trichloroethene	6.19	130	237494	86.040	ug/l	95
45) 1,2-Dichloropropane	6.19	63	971	0.375	ug/l #	1
51) 4-Methyl-2-Pentanone	7.57	43	1948	0.484	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	82378	26.568	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	82378	61.489	ug/l #	100
95) Naphthalene	13.77	128	44	0.683	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

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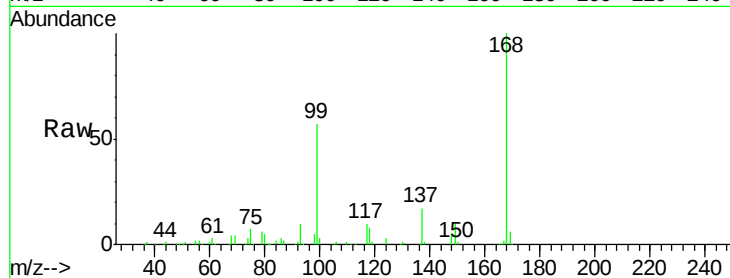
WP021MW473-180628DL

Tot Ion:168 Resp: 194207

Ion Ratio Lower Upper

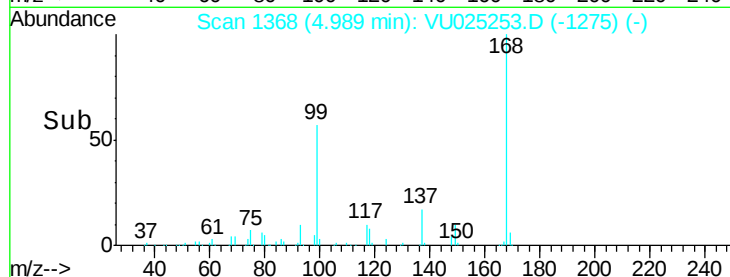
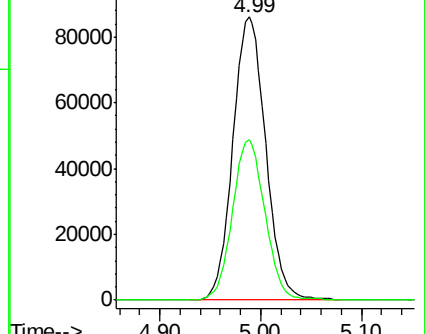
168 100

99 56.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.309 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025253.D

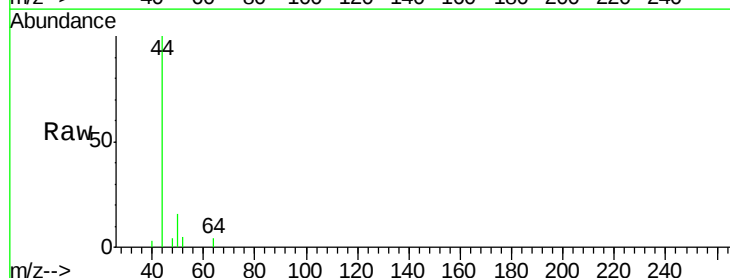
Acq: 06 Jul 2018 20:30

Tgt Ion: 50 Resp: 767

Ion Ratio Lower Upper

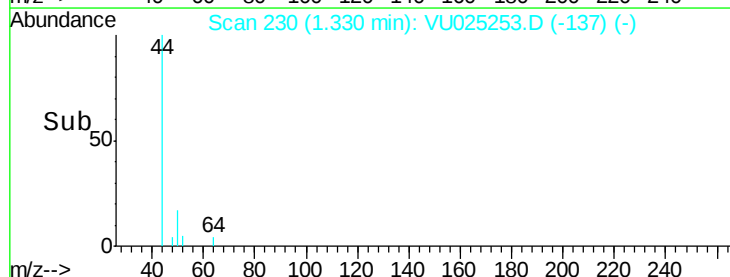
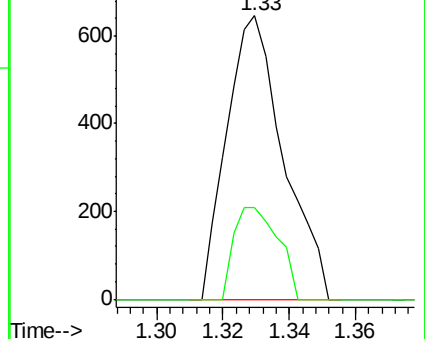
50 100

52 32.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#4

Vinyl Chloride

Concen: 8.484 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

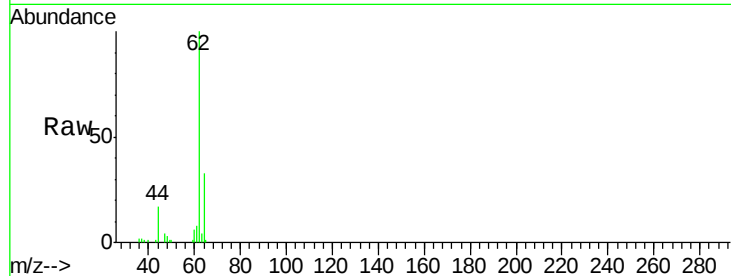
WP021MW473-180628DL

Tot Ion: 62 Resp: 21728

Ion Ratio Lower Upper

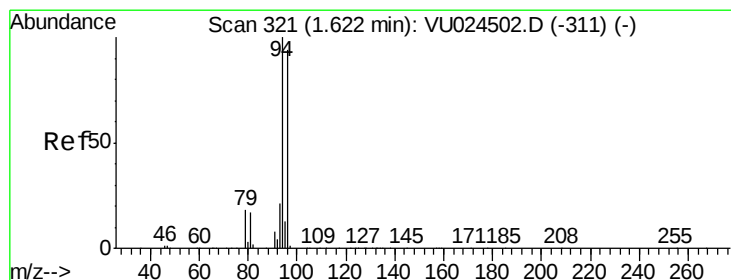
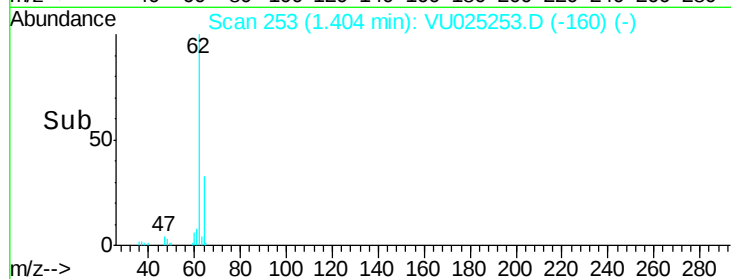
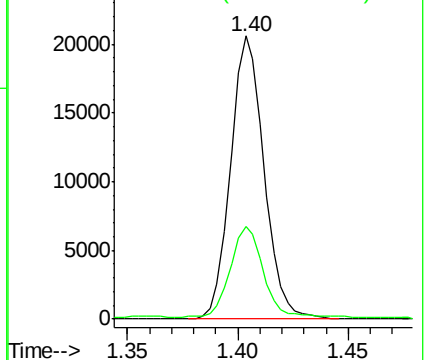
62 100

64 32.0 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.245 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025253.D

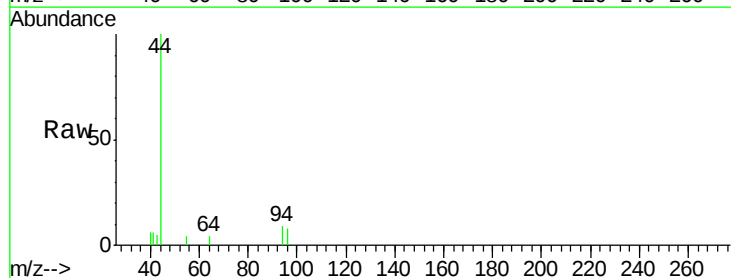
Acq: 06 Jul 2018 20:30

Tgt Ion: 94 Resp: 303

Ion Ratio Lower Upper

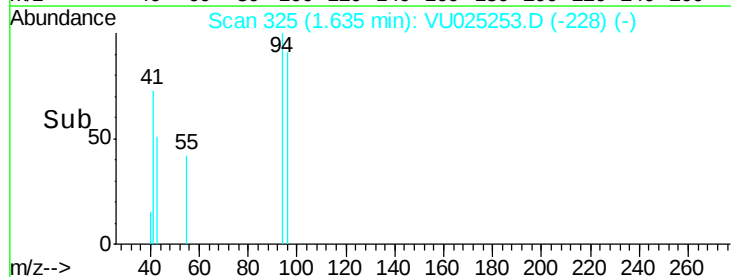
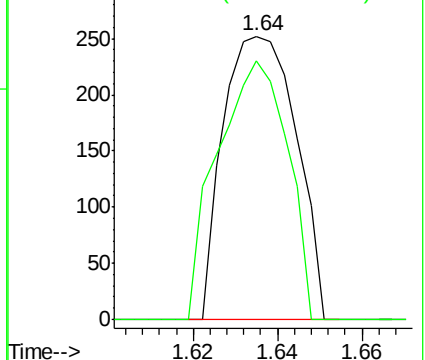
94 100

96 91.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0





#6

Chloroethane

Concen: Below Cal

RT: 1.52 min Scan# 289

Delta R.T. -0.18 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

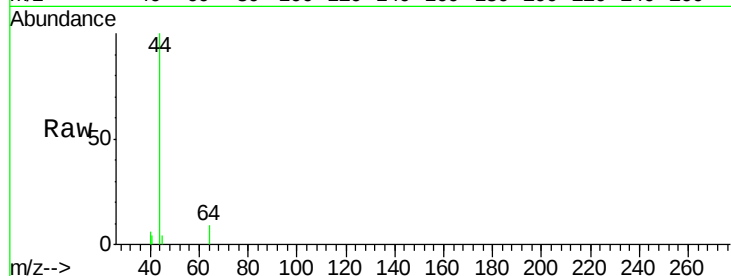
WP021MW473-180628DL

Tot Ion: 64 Resp: 307

Ion Ratio Lower Upper

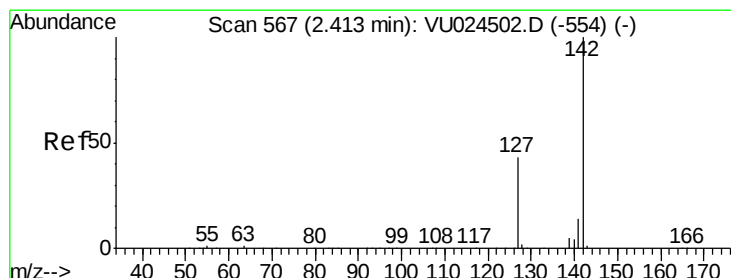
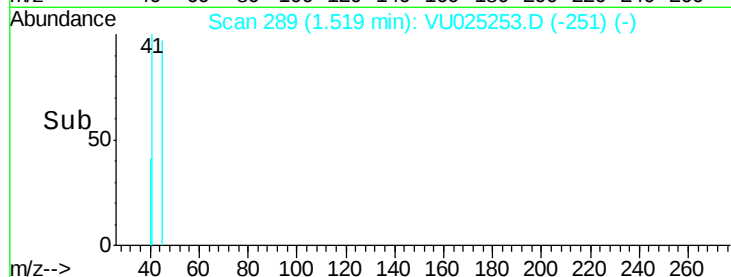
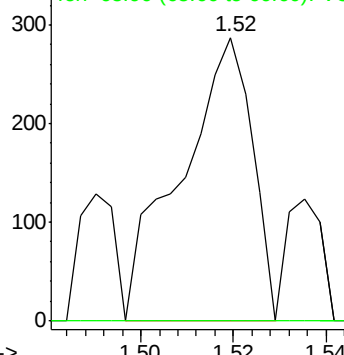
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#10

Methyl Iodide

Concen: 5.297 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

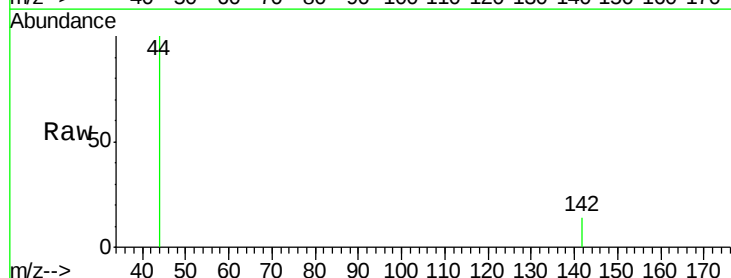
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

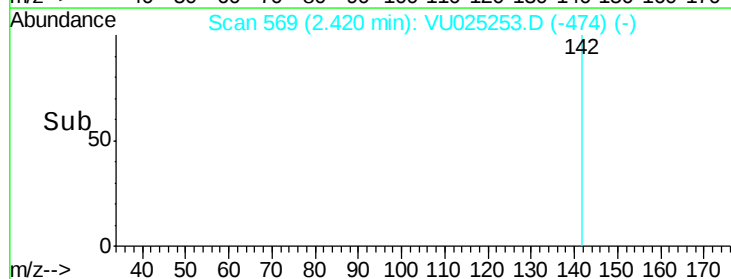
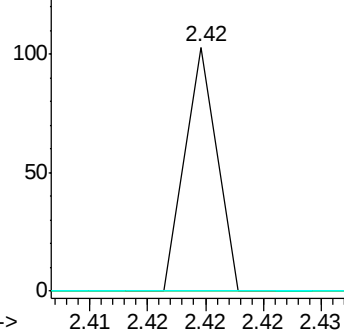
141 0.0 11.7 17.5#

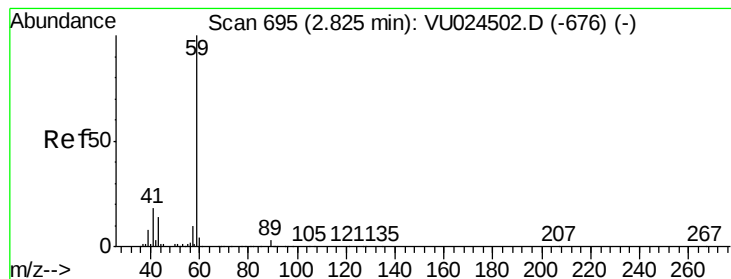


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



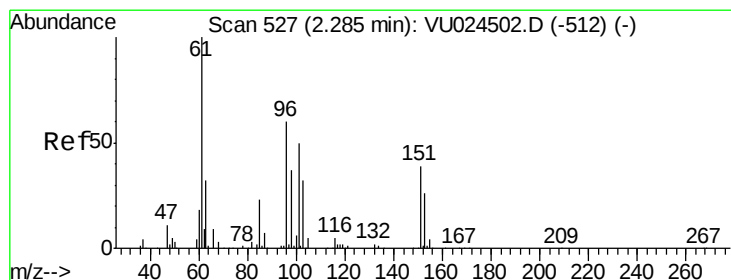
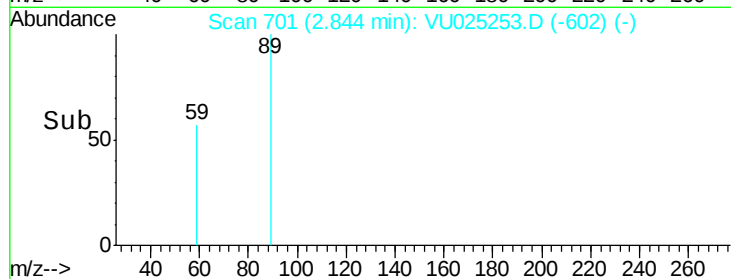
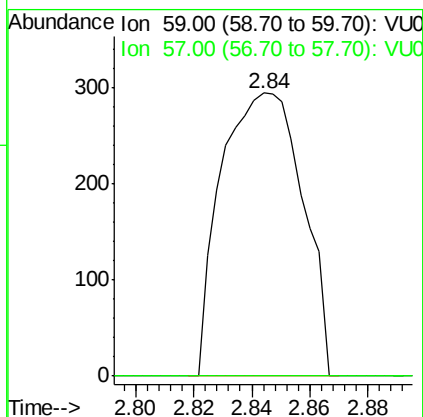
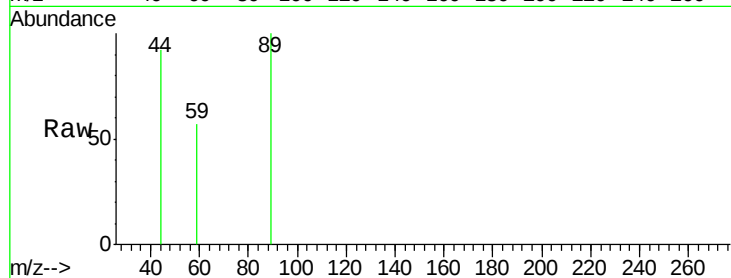


#11

Tert butyl alcohol
 Concen: 0.742 ug/l
 RT: 2.84 min Scan# 701
 Delta R.T. 0.02 min
 Lab File: VU025253.D
 Acq: 06 Jul 2018 20:30

Instrument :
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 ClientSampleId :
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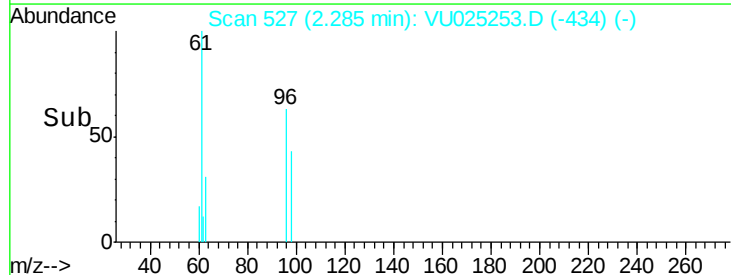
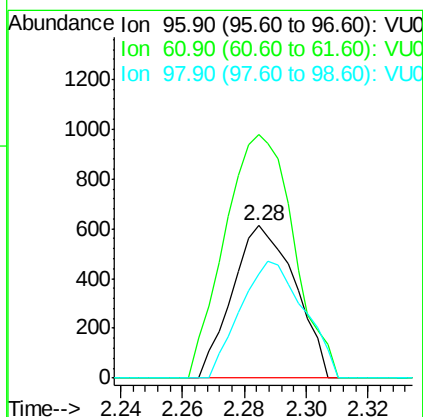
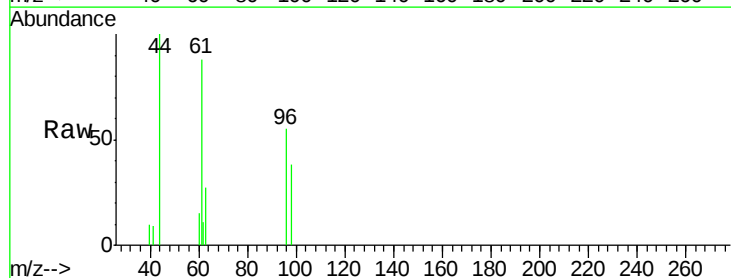
Tot Ion: 59 Resp: 572
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

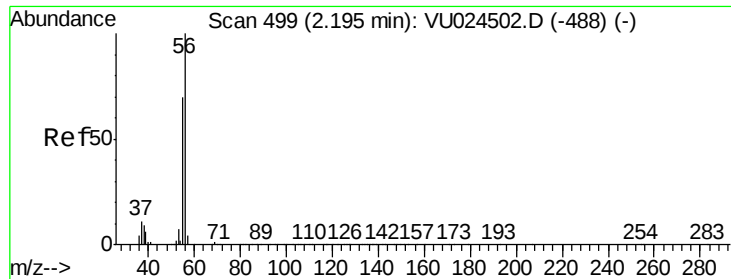


#12

1,1-Dichloroethene
 Concen: 0.391 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VU025253.D
 Acq: 06 Jul 2018 20:30

Tgt Ion: 96 Resp: 865
 Ion Ratio Lower Upper
 96 100
 61 159.8 141.7 212.5
 98 68.0 51.6 77.4





#13

Acrolein

Concen: 0.203 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

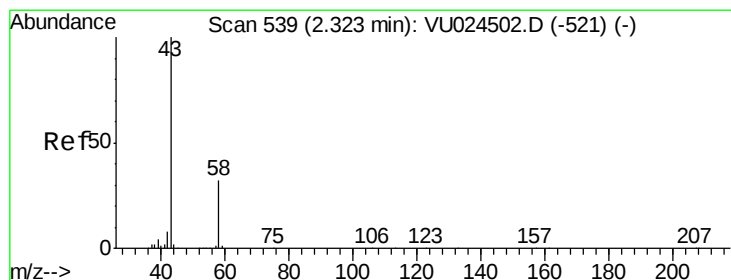
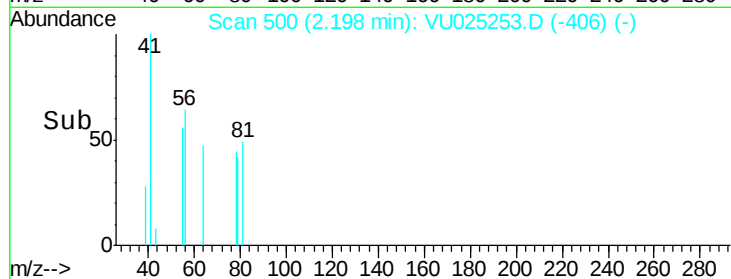
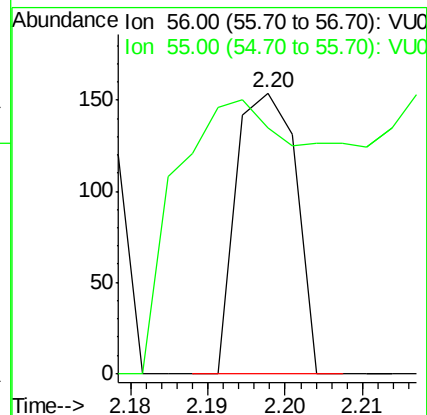
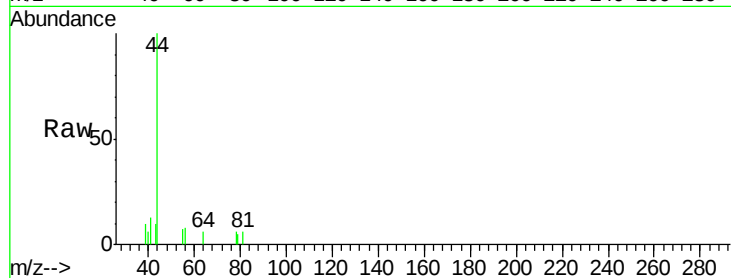
WP021MW473-180628DL

Tot Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

55 214.6 58.4 87.6#



#16

Acetone

Concen: 0.404 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025253.D

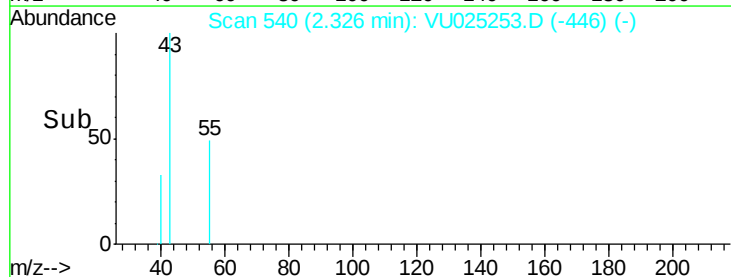
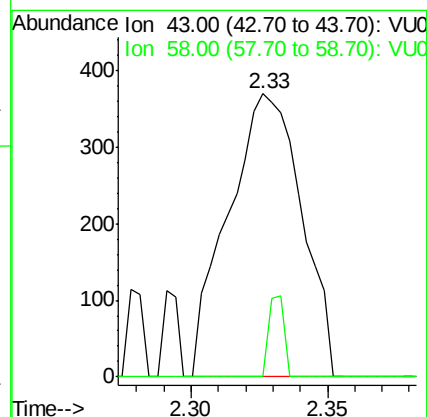
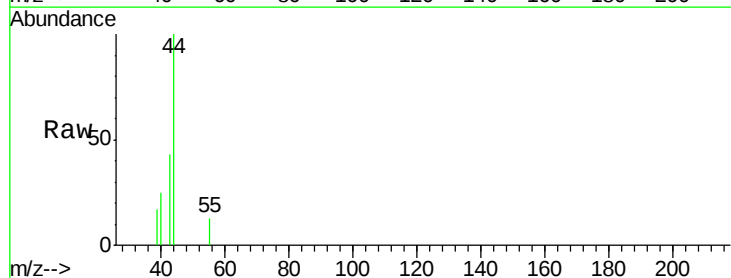
Acq: 06 Jul 2018 20:30

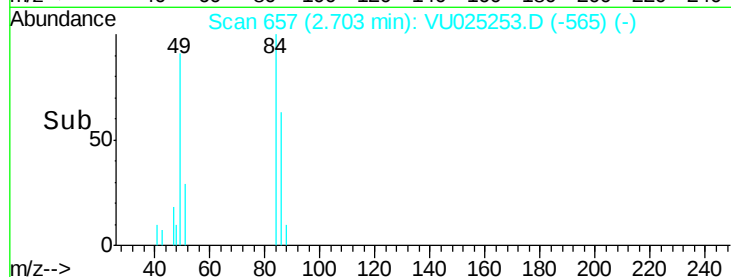
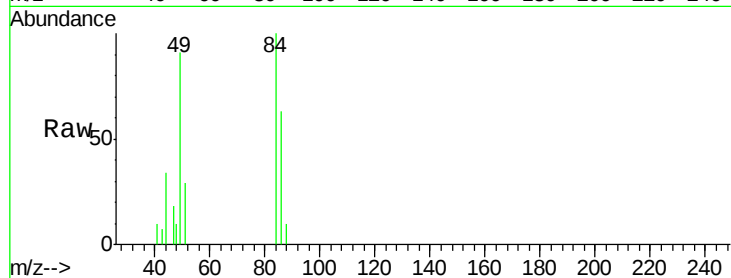
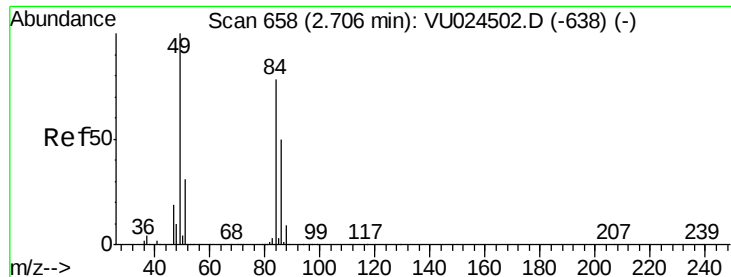
Tgt Ion: 43 Resp: 689

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#

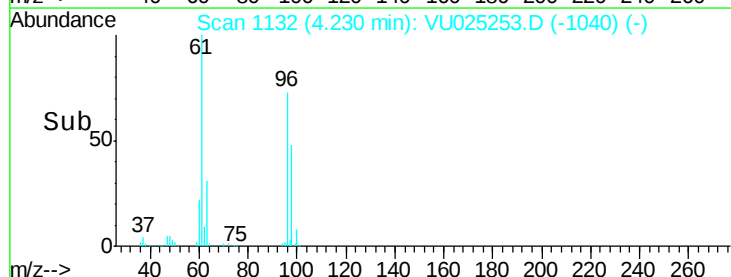
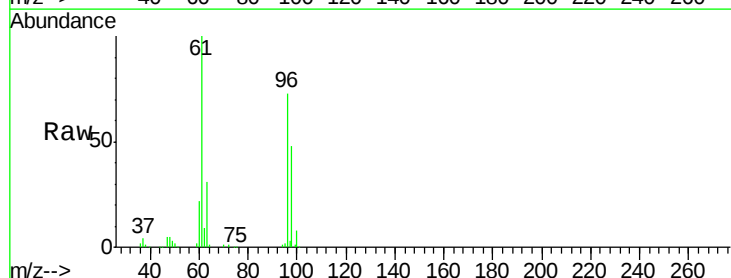
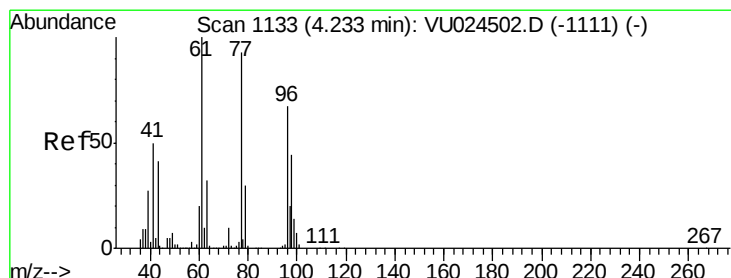
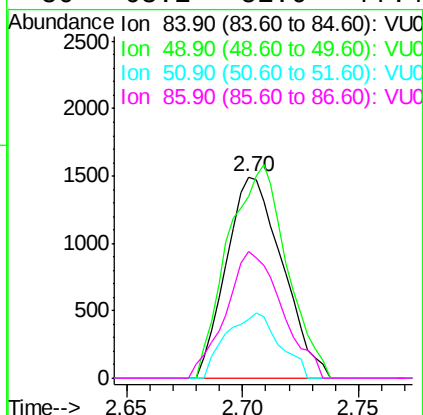




#20
Methylene Chloride
Concen: 0.938 ug/l
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

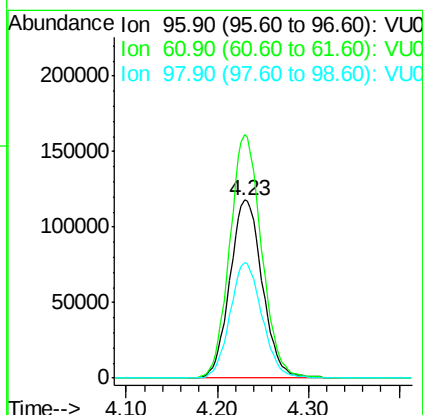
Instrument :
MSVOA_U
ClientSampleId :
WP021MW473-180628DL

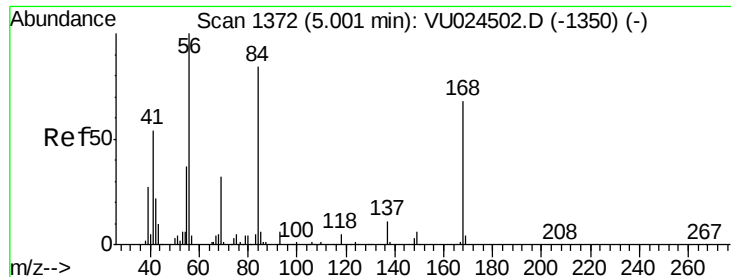
Tot Ion:	84	Resp:	2508
Ion	Ratio	Lower	Upper
84	100		
49	90.6	103.8	155.8#
51	29.1	32.0	48.0#
86	63.1	51.6	77.4



#27
cis-1,2-Dichloroethene
Concen: 104.549 ug/l
RT: 4.23 min Scan# 1132
Delta R.T. -0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Tgt Ion:	96	Resp:	292745
Ion	Ratio	Lower	Upper
96	100		
61	134.1	0.0	306.6
98	64.0	0.0	128.8

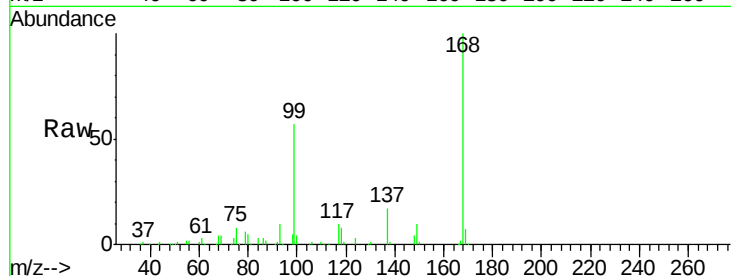




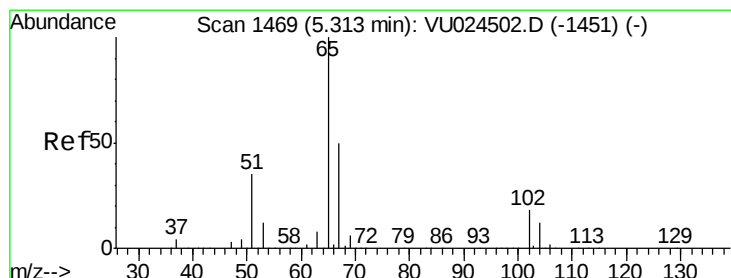
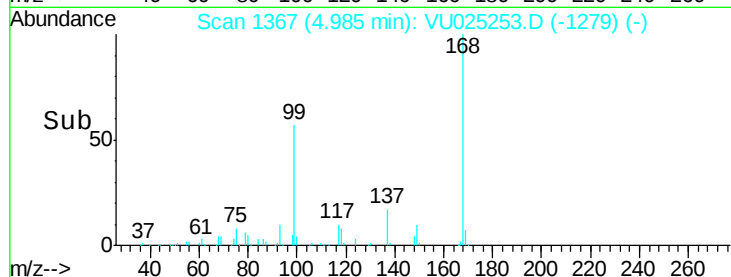
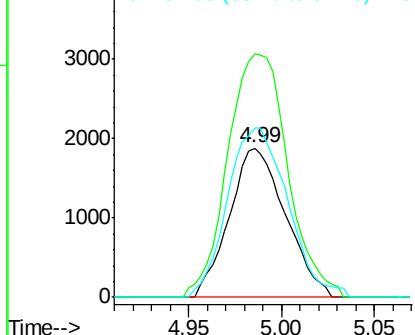
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Instrument :
MSVOA_U
ClientSampleId :
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Tot Ion: 56 Resp: 3976
Ion Ratio Lower Upper
56 100
69 156.7 24.8 37.2#
84 113.6 65.2 97.8#

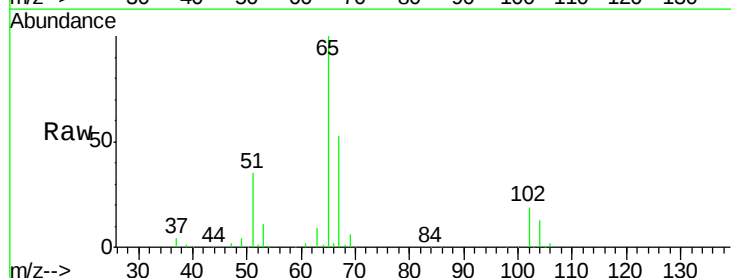


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

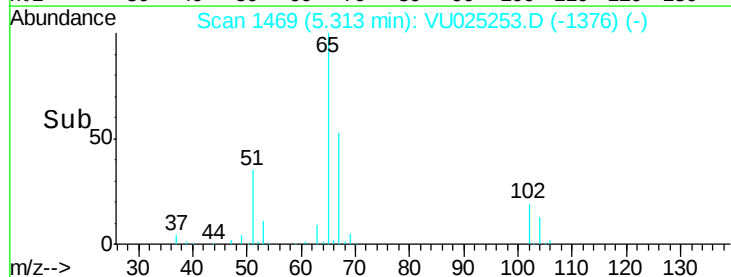
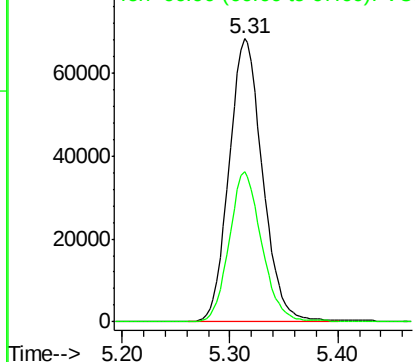


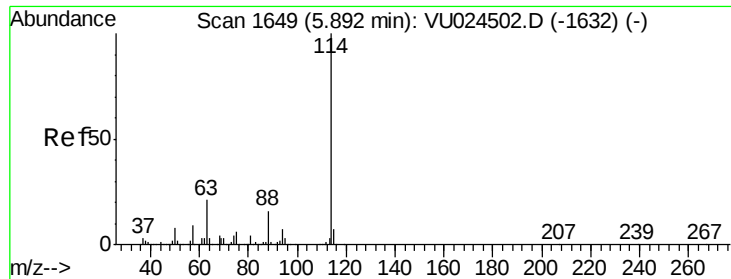
#33
1,2-Dichloroethane-d4
Concen: 46.608 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Tgt Ion: 65 Resp: 147769
Ion Ratio Lower Upper
65 100
67 51.6 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

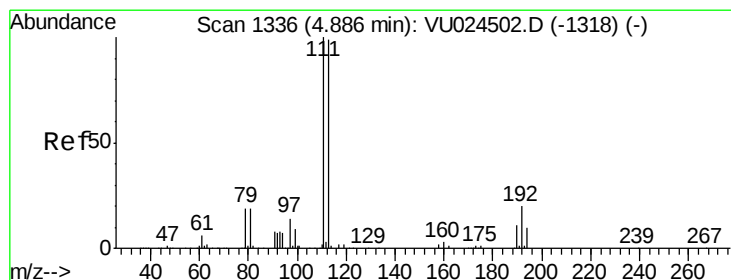
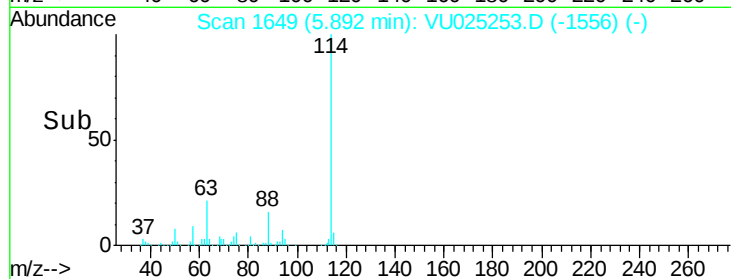
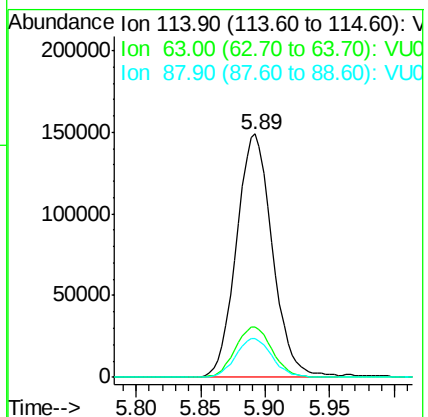
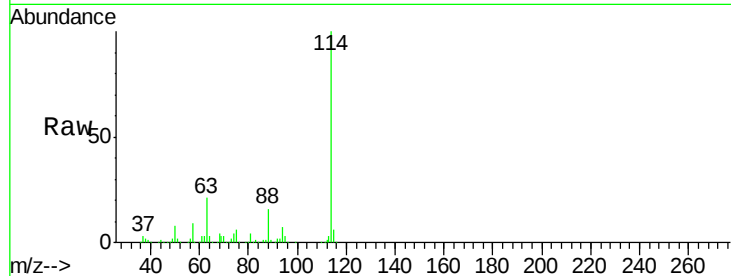




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

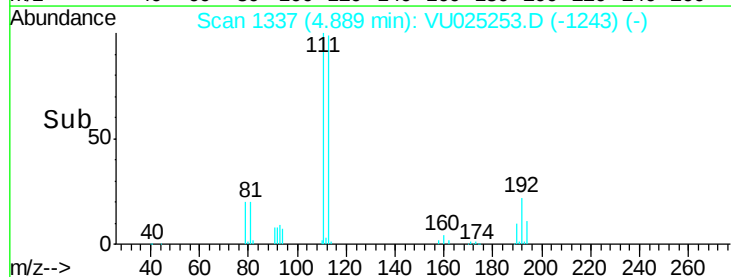
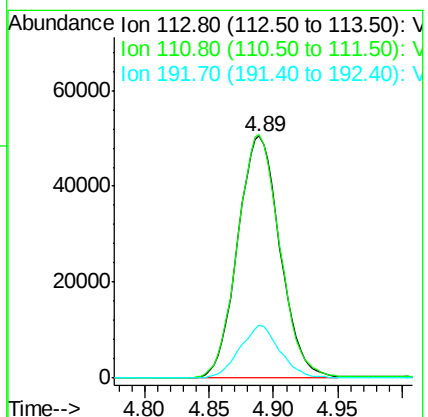
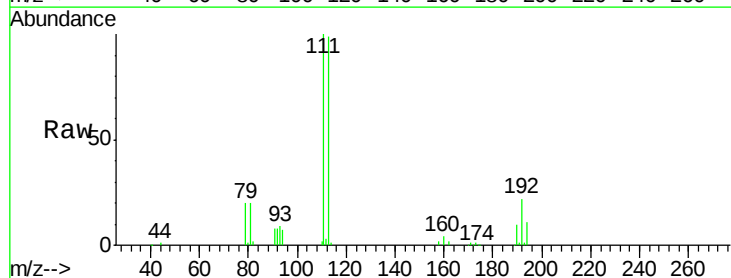
Instrument :
MSVOA_U
ClientSampleId :
WP021MW473-180628DL

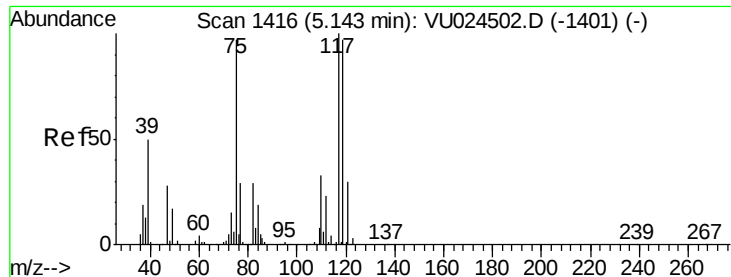
Tot Ion:114	Resp:	289662
Ion Ratio	Lower	Upper
114 100		
63 20.7	0.0	45.4
88 15.8	0.0	31.0



#35
Dibromofluoromethane
Concen: 48.042 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Tgt Ion:113	Resp:	115491
Ion Ratio	Lower	Upper
113 100		
111 100.5	82.2	123.4
192 20.7	16.2	24.4





#36

1,1-Dichloropropene

Concen: 4.193 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

WP021MW473-180628DL

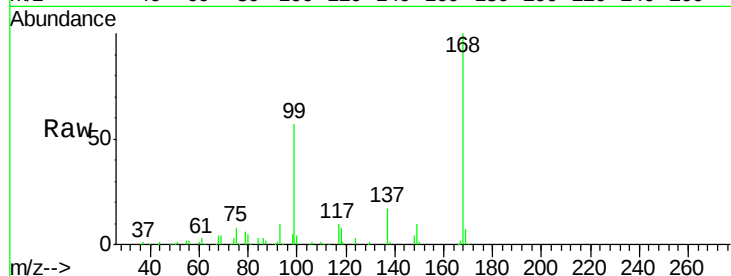
Tot Ion: 75 Resp: 14273

Ion Ratio Lower Upper

75 100

110 8.9 17.0 50.9#

77 0.0 24.2 36.4#

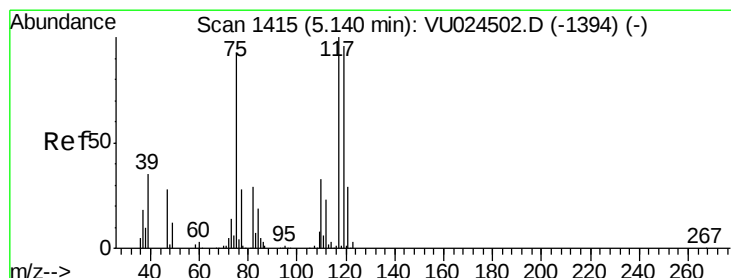
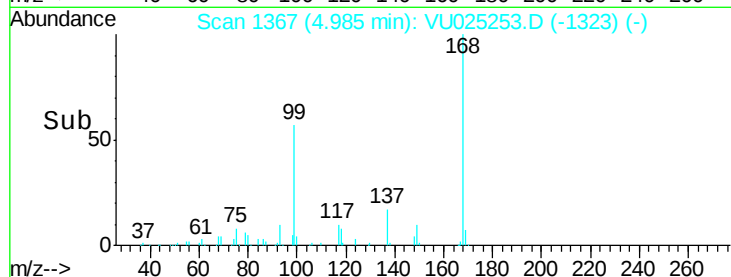


Abundance Ion 74.90 (74.60 to 75.60): VU025253.D (-1367) (-)

Ion 109.90 (109.60 to 110.60): VU025253.D (-1367) (-)

Ion 76.90 (76.60 to 77.60): VU025253.D (-1367) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.974 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

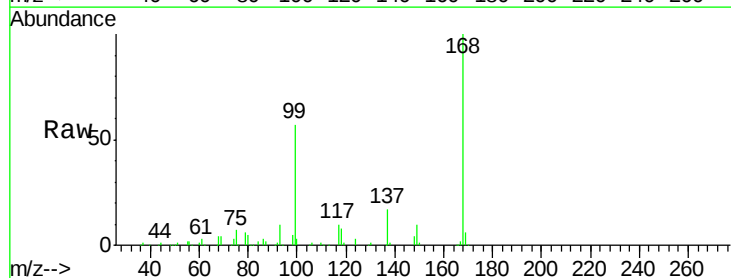
Tgt Ion: 117 Resp: 18619

Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

121 0.0 23.7 35.5#

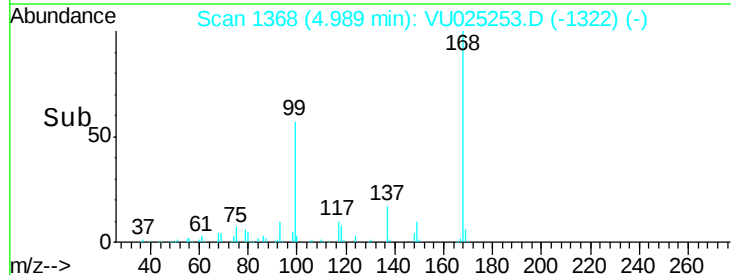


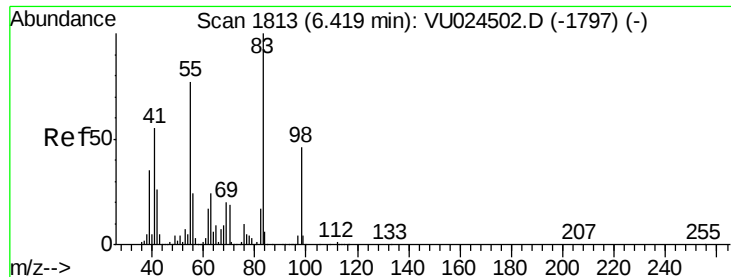
Abundance Ion 116.80 (116.50 to 117.50): VU025253.D (-1368) (-)

Ion 118.80 (118.50 to 119.50): VU025253.D (-1368) (-)

Ion 120.80 (120.50 to 121.50): VU025253.D (-1368) (-)

Time-->

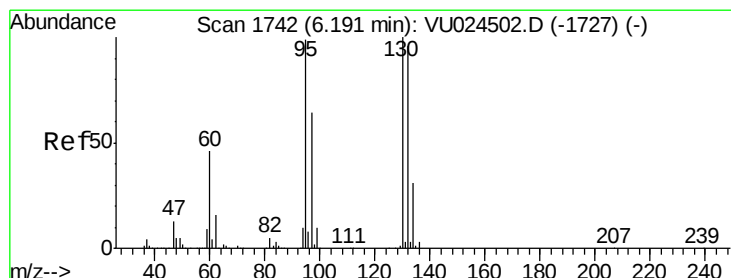
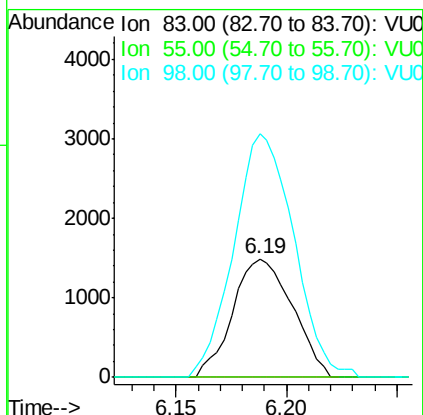
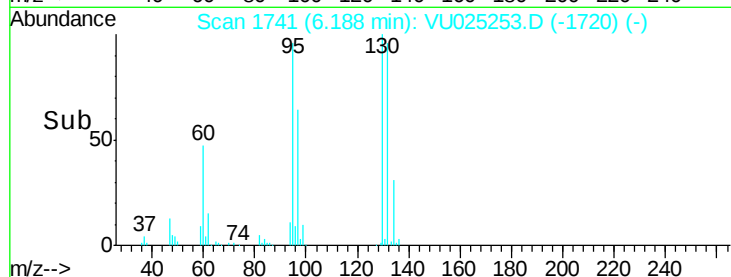
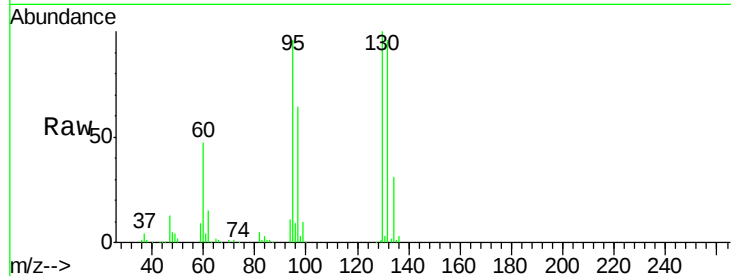




#39
Methvlcvclohexane
Concen: 0.659 ug/l
RT: 6.19 min Scan# 1741
Delta R.T. -0.23 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

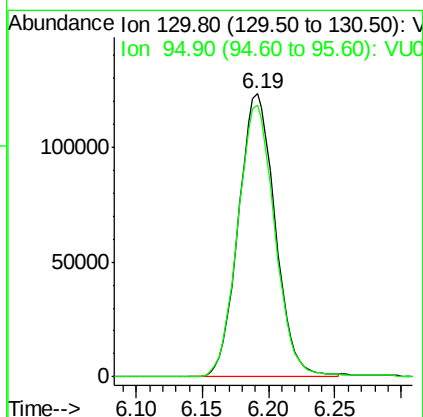
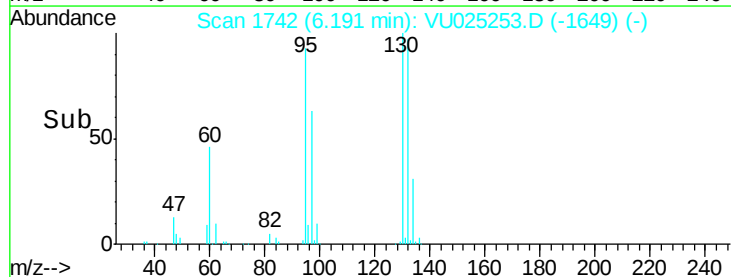
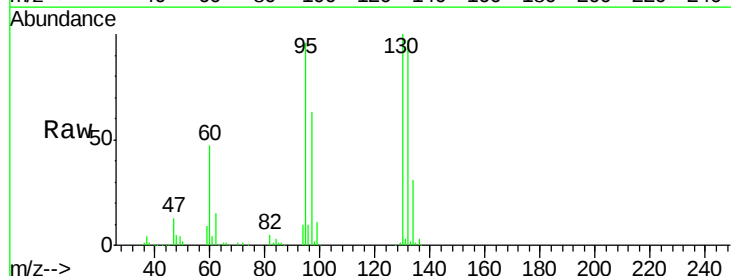
Instrument :
MSVOA_U
ClientSampleId :
WP021MW473-180628DL

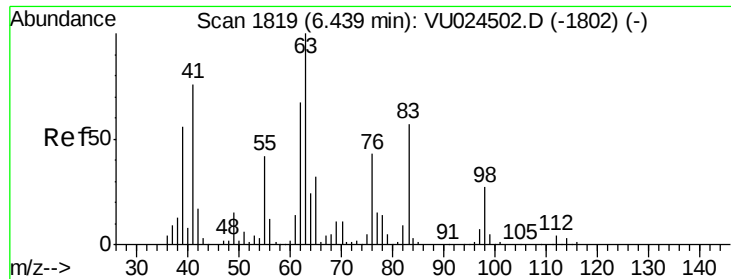
Tot Ion: 83 Resp: 2798
Ion Ratio Lower Upper
83 100
55 0.0 65.8 98.6#
98 205.8 36.7 55.1#



#44
Trichloroethene
Concen: 86.040 ug/l
RT: 6.19 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Tgt Ion:130 Resp: 237494
Ion Ratio Lower Upper
130 100
95 96.2 0.0 202.4





#45

1,2-Dichloropropane

Concen: 0.375 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.25 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

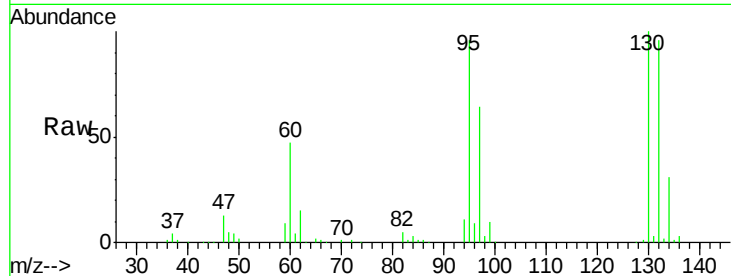
WP021MW473-180628DL

Tot Ion: 63 Resp: 971

Ion Ratio Lower Upper

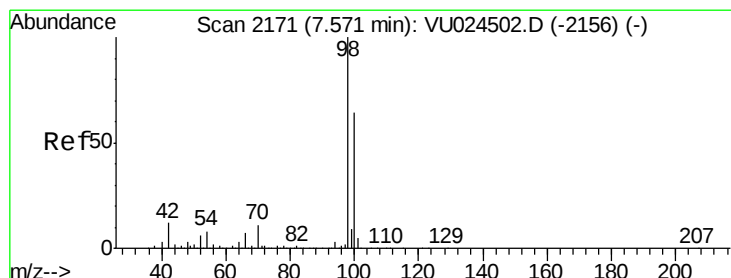
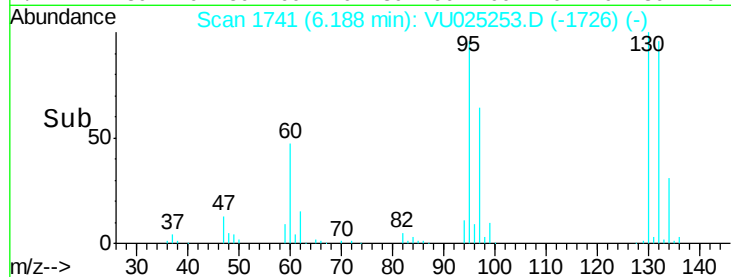
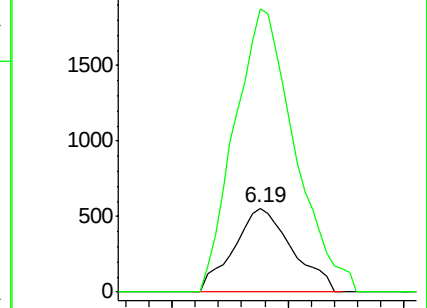
63 100

65 337.8 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#50

Toluene-d8

Concen: 48.119 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025253.D

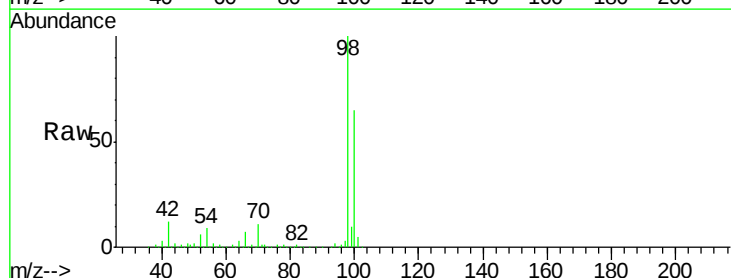
Acq: 06 Jul 2018 20:30

Tgt Ion: 98 Resp: 421944

Ion Ratio Lower Upper

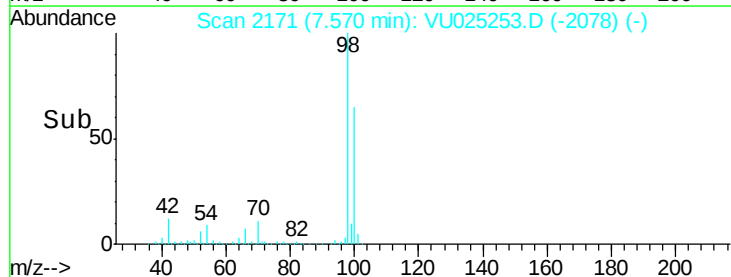
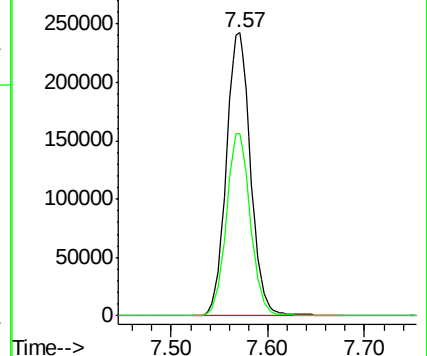
98 100

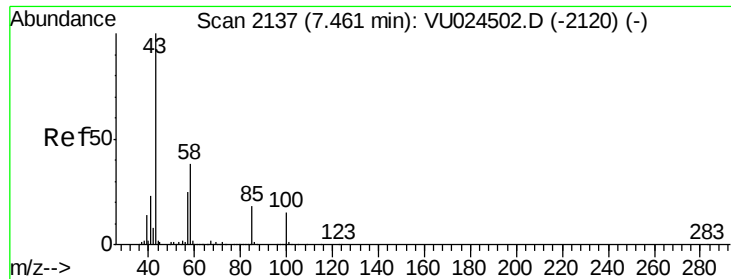
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.484 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.11 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

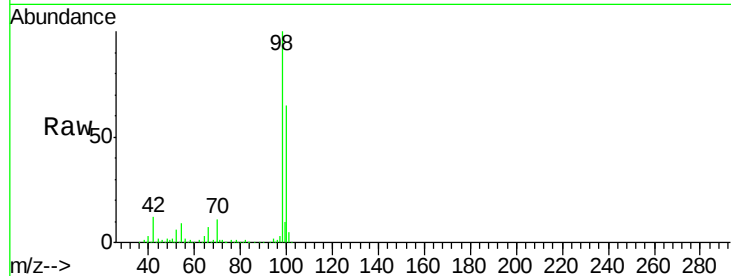
WP021MW473-180628DL

Tot Ion: 43 Resp: 1948

Ion Ratio Lower Upper

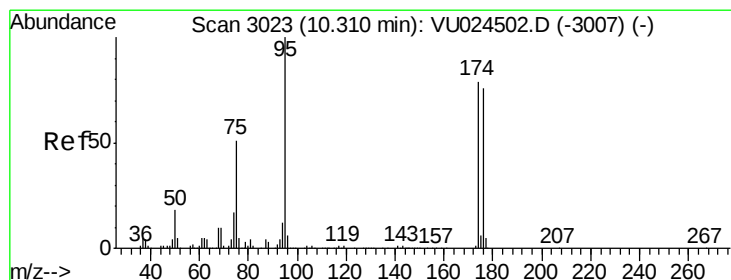
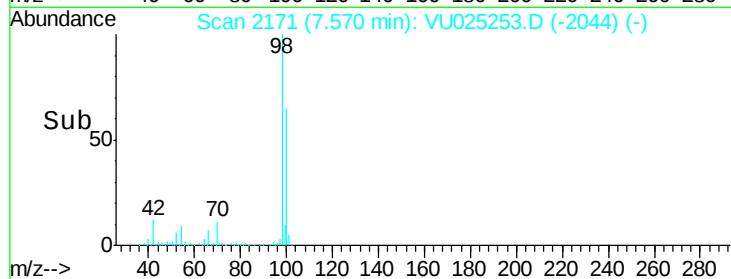
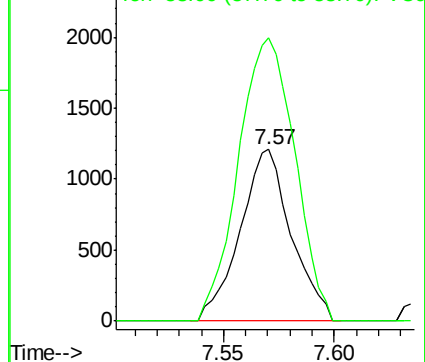
43 100

58 181.7 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 44.484 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

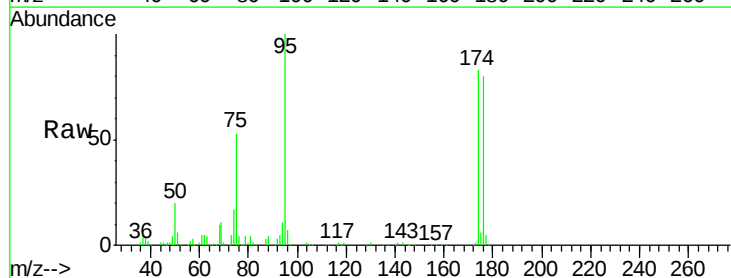
Tgt Ion: 95 Resp: 154871

Ion Ratio Lower Upper

95 100

174 85.8 0.0 165.8

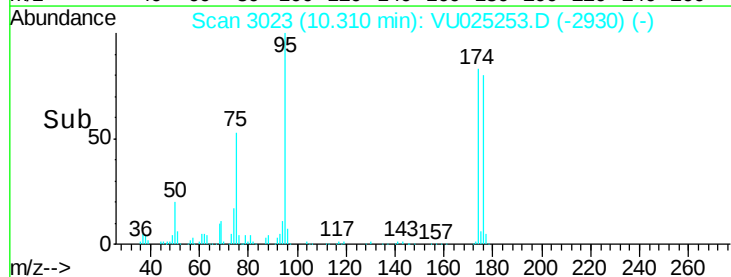
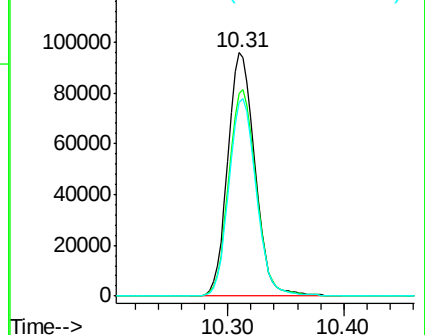
176 81.6 0.0 159.4

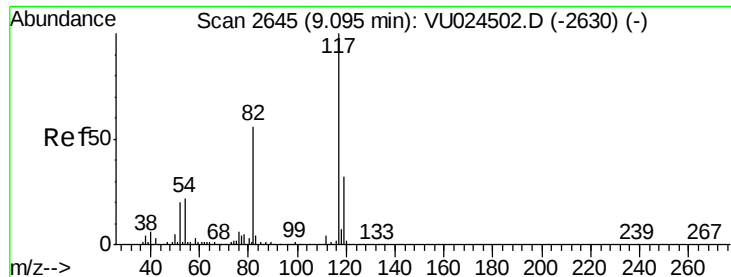


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

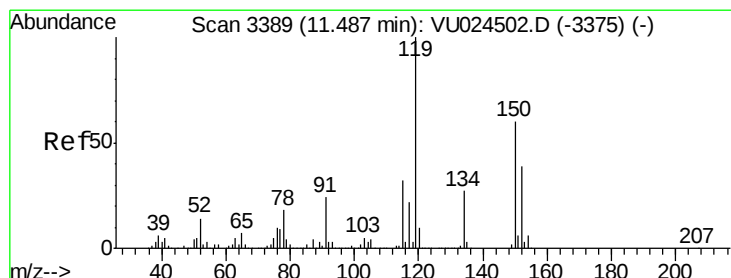
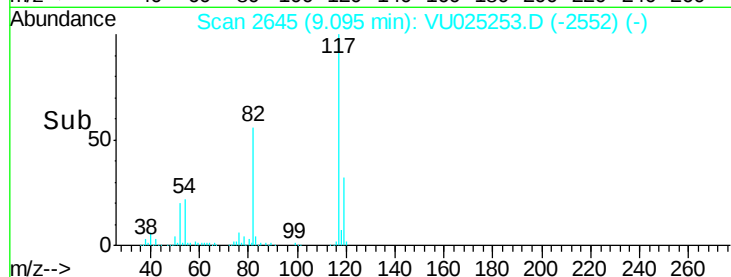
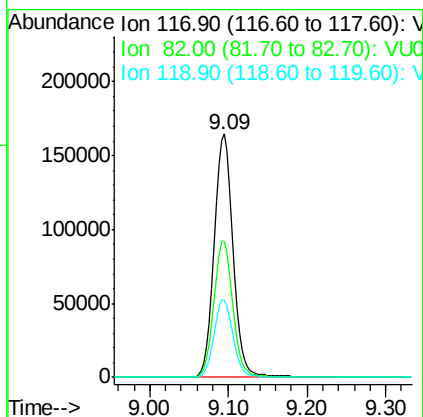
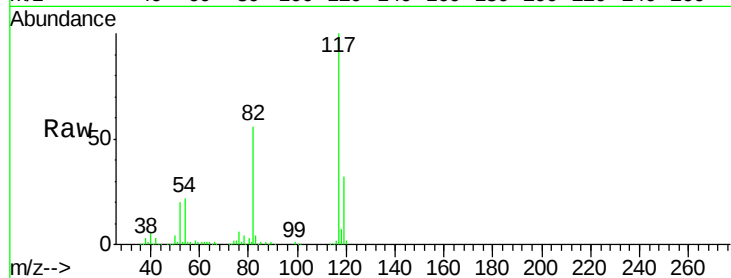




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

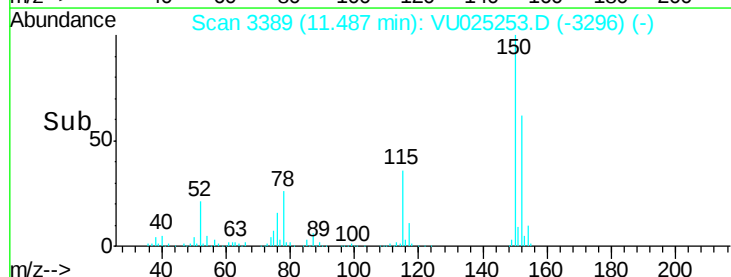
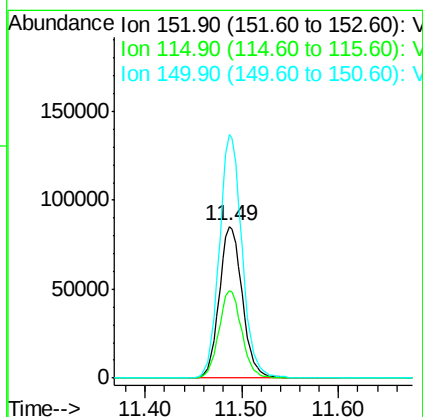
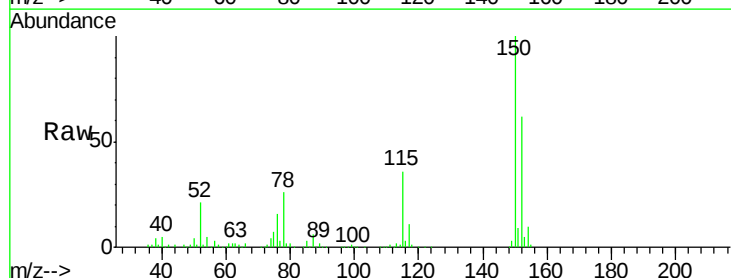
Instrument :
MSVOA_U
ClientSampleId :
WP021MW473-180628DL

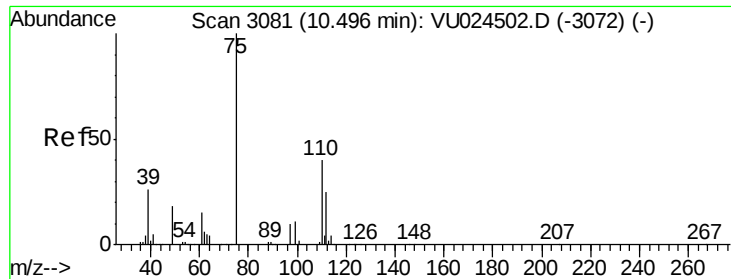
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.3	66.5
119	31.6	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.2	43.0	129.0
150	158.4	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 26.568 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

Instrument :

MSVOA_U

ClientSampleId :

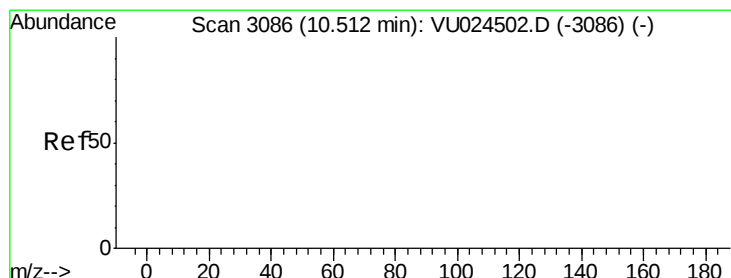
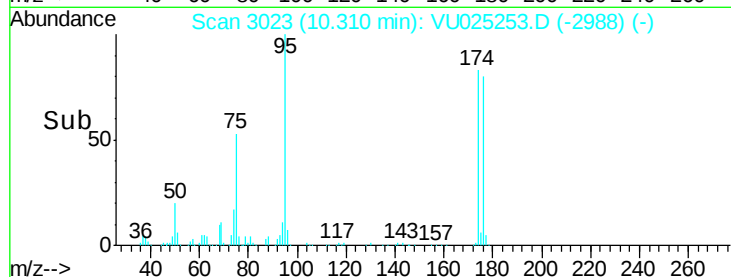
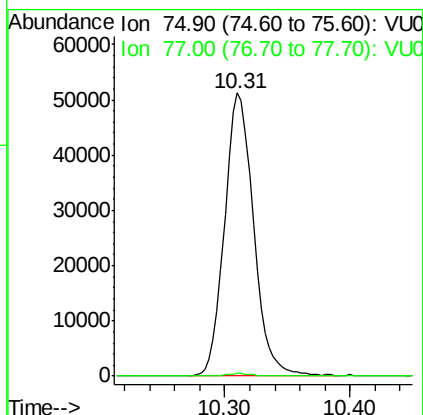
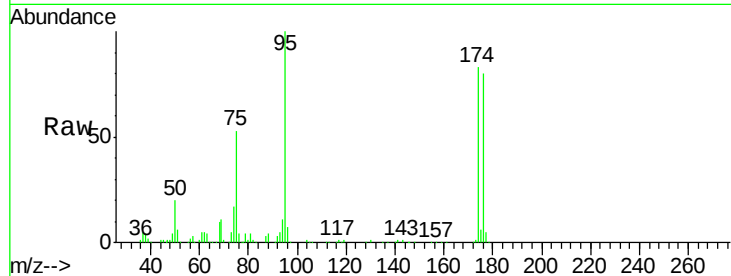
WP021MW473-180628DL

Tot Ion: 75 Resp: 82378

Ion Ratio Lower Upper

75 100

77 0.7 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.489 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025253.D

Acq: 06 Jul 2018 20:30

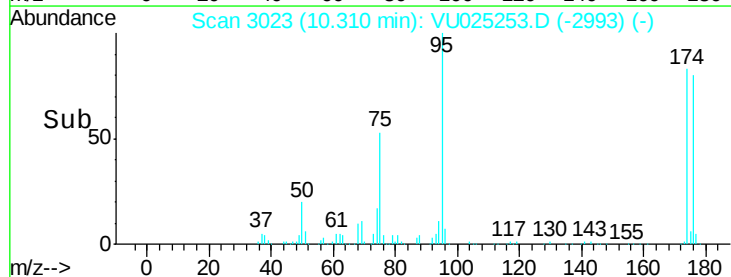
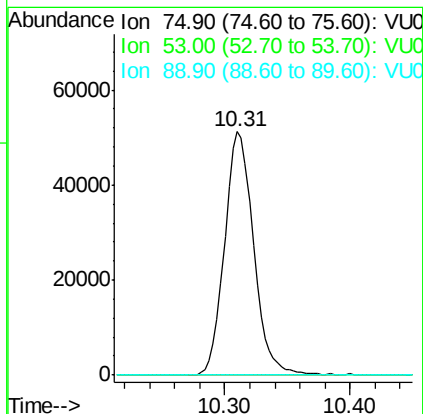
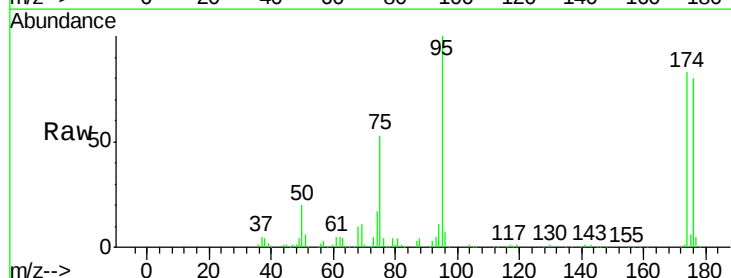
Tgt Ion: 75 Resp: 82378

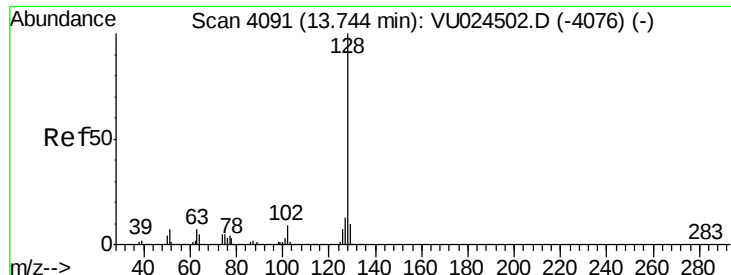
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#95
Naphthalene
Concen: 0.683 ug/l
RT: 13.77 min Scan# 4099
Delta R.T. 0.03 min
Lab File: VU025253.D
Acq: 06 Jul 2018 20:30

Instrument :
MSVOA_U
ClientSampleId :
WP021MW473-180628DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	12.8#

