

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U070518\
 Data File : VU025222.D
 Acq On : 05 Jul 2018 17:52
 Operator : MD/SY
 Sample : J3808-17
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628

Manual Integrations
 APPROVED

sam
 7/6/2018 4:22:21 PM

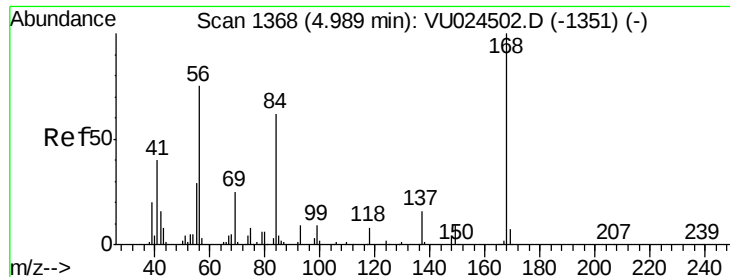
Quant Time: Jul 06 07:48:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	216595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	326221	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	309227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	169527	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	166098	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
35) Dibromofluoromethane	4.89	113	124649	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
50) Toluene-d8	7.57	98	470486	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
62) 4-Bromofluorobenzene	10.31	95	178846	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	9674924	3387.071	ug/l	92
6) Chloroethane	1.70	64	151349	95.787	ug/l	98
11) Tert butyl alcohol	2.82	59	54508	63.383	ug/l	96
12) 1,1-Dichloroethene	2.29	96	58842	23.859	ug/l	95
16) Acetone	2.32	43	3394	1.786	ug/l #	87
21) trans-1,2-Dichloroethene	2.99	96	218043	80.271	ug/l	99
24) 1,1-Dichloroethane	3.45	63	304644	58.338	ug/l	99
27) cis-1,2-Dichloroethene	4.22	96	29727049m	9519.193	ug/l	
29) Tetrahydrofuran	4.64	42	18965	12.001	ug/l	98
31) Cyclohexane	4.99	56	14564	1.215	ug/l #	66
39) Methylcyclohexane	6.42	83	12655	2.645	ug/l	95
40) Benzene	5.39	78	228746	20.942	ug/l	97
42) 1,2-Dichloroethane	5.41	62	15595	3.749	ug/l	99
44) Trichloroethene	6.19	130	487983	156.976	ug/l	96
49) 1,4-Dioxane	6.62	88	3490	50.747	ug/l	92
52) Toluene	7.64	92	25429	3.619	ug/l	99
65) Chlorobenzene	9.12	112	3188308	403.603	ug/l	99
68) m/p-Xylenes	9.38	106	3008	0.566	ug/l	95
73) Isopropylbenzene	10.17	105	30717	2.360	ug/l	98
83) tert-Butylbenzene	11.10	119	37520	3.458	ug/l	93
85) sec-Butylbenzene	11.33	105	23208	1.709	ug/l	99
87) 1,3-Dichlorobenzene	11.42	146	37008	6.079	ug/l	99
88) 1,4-Dichlorobenzene	11.51	146	187371	30.580	ug/l	100
91) 1,2-Dichlorobenzene	11.88	146	1271348	208.501	ug/l	99

(#) = 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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Tot Ion:168 Resp: 216595

Ion Ratio Lower Upper

168 100

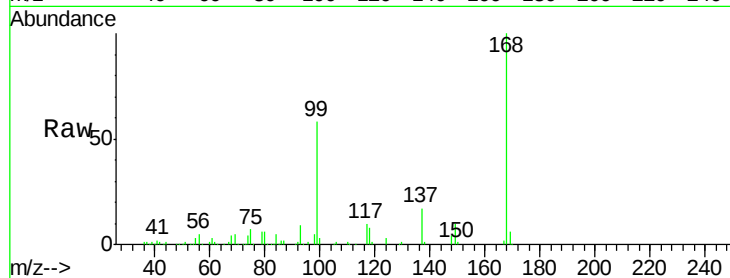
99 57.9 43.2 64.8

Manual Integrations

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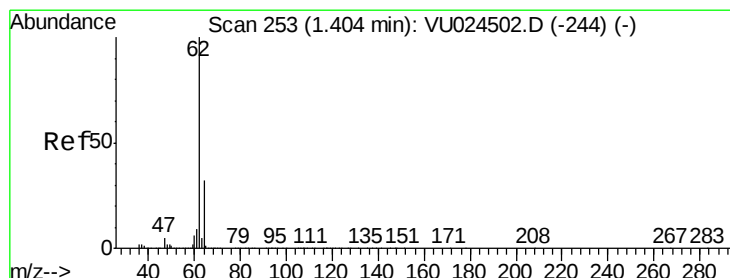
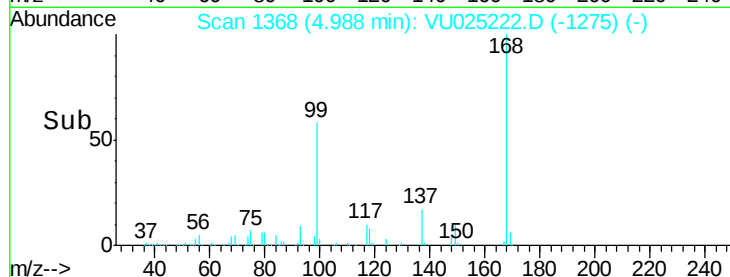
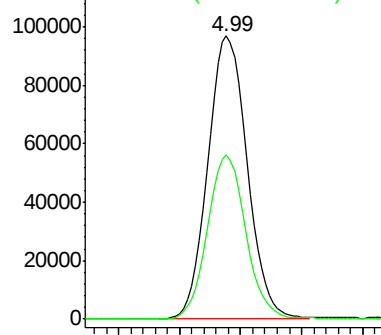
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#4

Vinyl Chloride

Concen: 3387.071 ug/l

RT: 1.40 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU025222.D

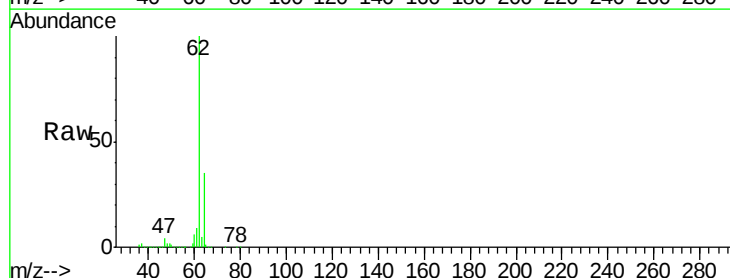
Acq: 05 Jul 2018 17:52

Tgt Ion: 62 Resp: 9674924

Ion Ratio Lower Upper

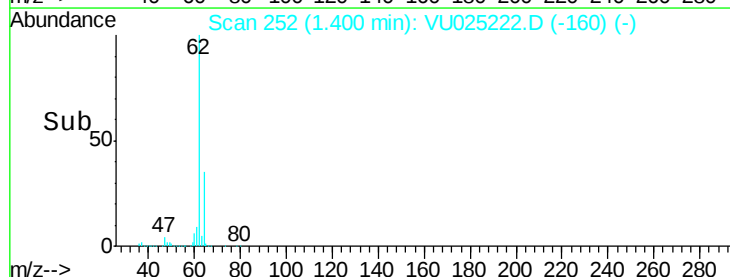
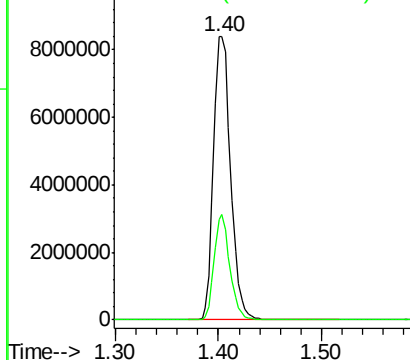
62 100

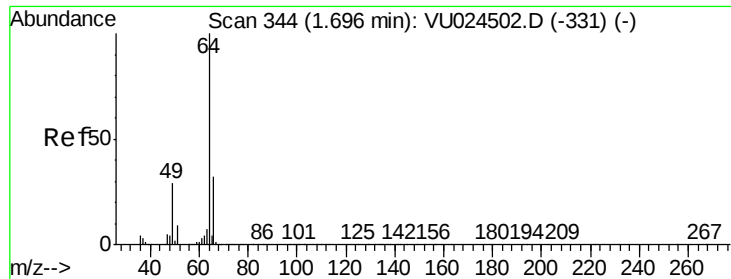
64 35.3 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#6

Chloroethane

Concen: 95.787 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628

Tot Ion: 64 Resp: 151349

Ion Ratio Lower Upper

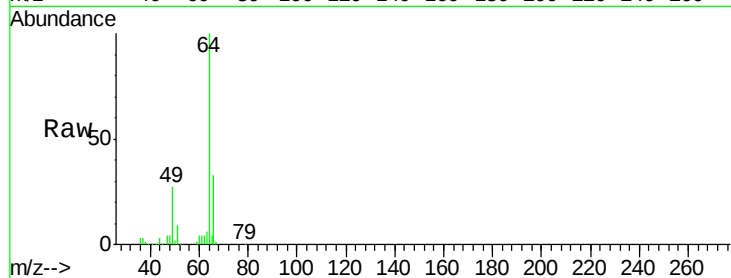
64 100

66 32.8 25.5 38.3

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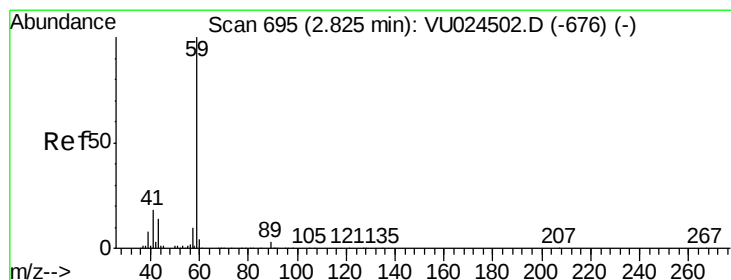
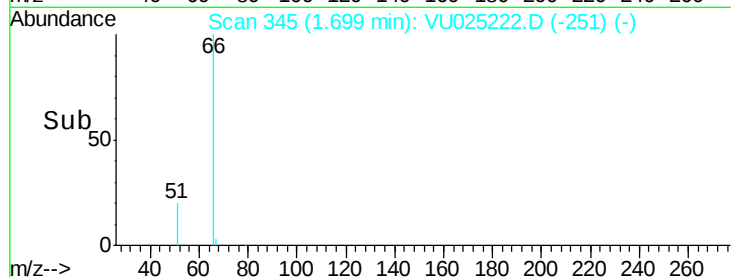
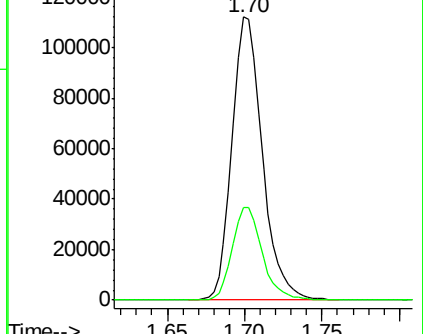
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Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#11

Tert butyl alcohol

Concen: 63.383 ug/l

RT: 2.82 min Scan# 695

Delta R.T. -0.00 min

Lab File: VU025222.D

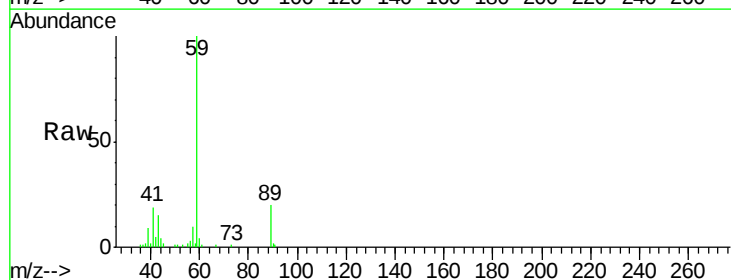
Acq: 05 Jul 2018 17:52

Tgt Ion: 59 Resp: 54508

Ion Ratio Lower Upper

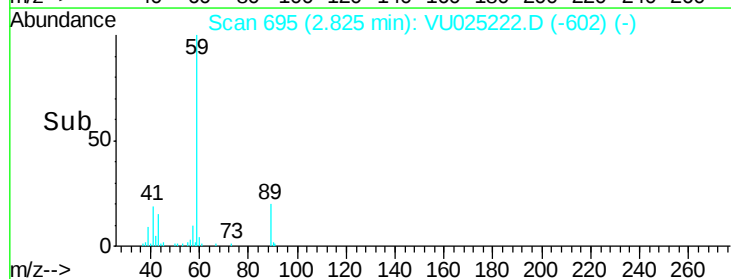
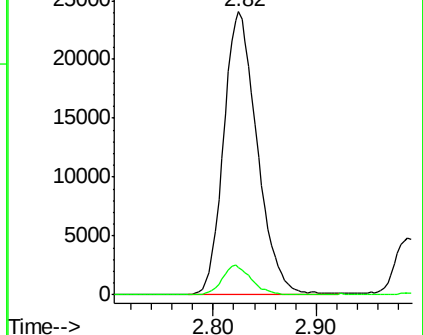
59 100

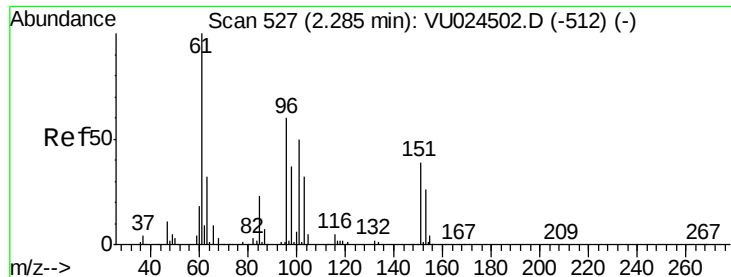
57 9.0 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 23.859 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

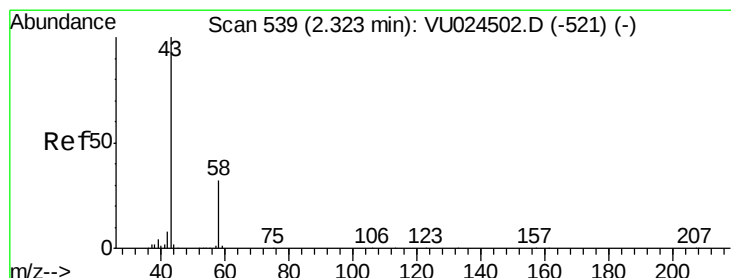
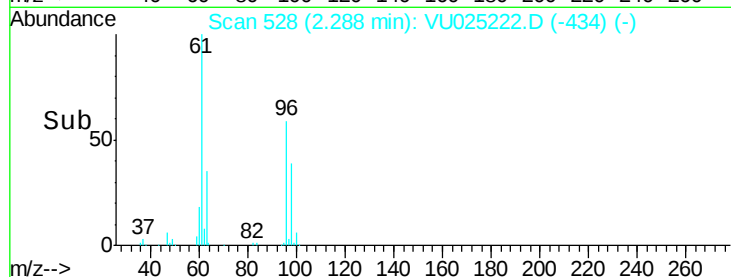
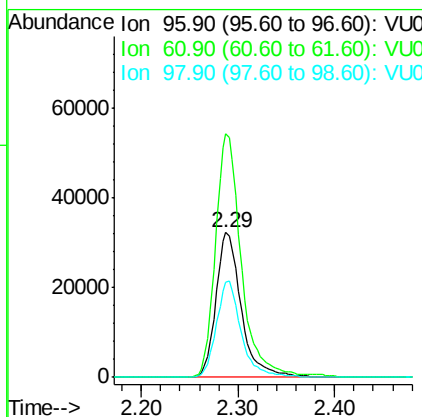
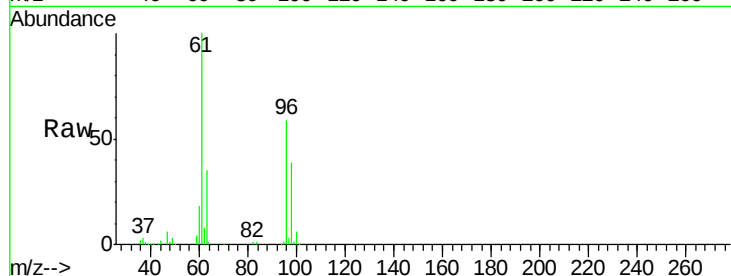
ClientSampleId :

WP021IW454-180628

Tot Ion:	96	Resp:	58842
Ion Ratio	Lower	Upper	
96	100		
61	168.1	141.7	212.5
98	65.8	51.6	77.4

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#16

Acetone

Concen: 1.786 ug/l

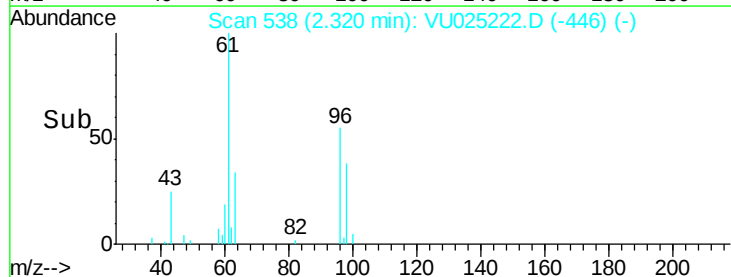
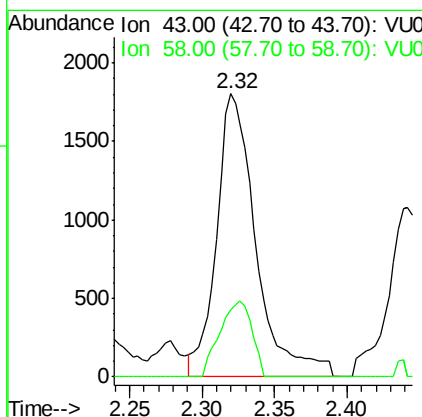
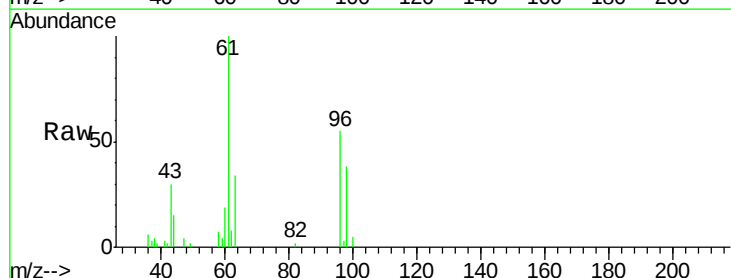
RT: 2.32 min Scan# 538

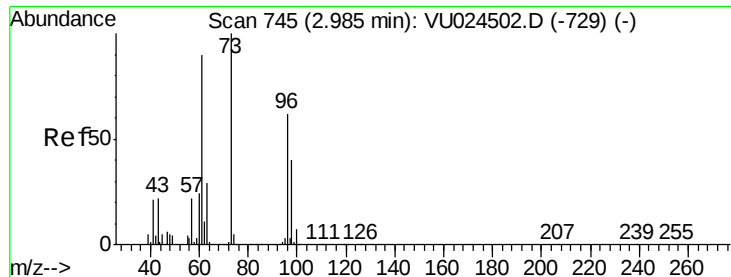
Delta R.T. -0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Tgt Ion:	43	Resp:	3394
Ion Ratio	Lower	Upper	
43	100		
58	23.5	24.4	36.6#





#21

trans-1,2-Dichloroethene

Concen: 80.271 ug/l

RT: 2.99 min Scan# 747

Delta R.T. 0.01 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

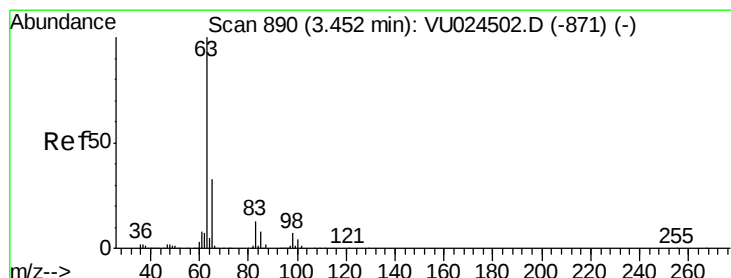
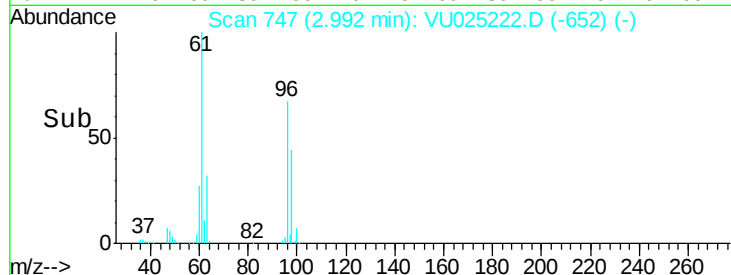
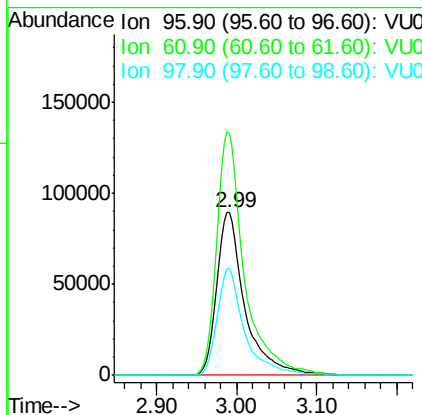
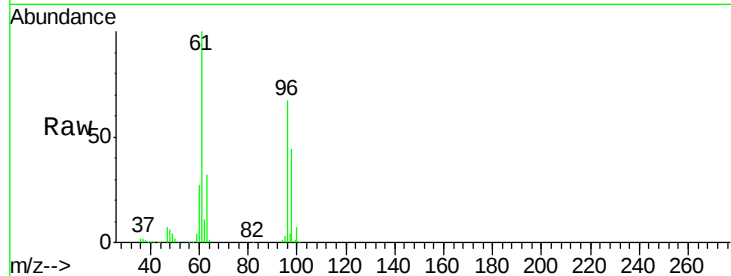
ClientSampleId :

WP021IW454-180628

Tot Ion:	96	Resp:	218043
Ion Ratio	Lower	Upper	
96	100		
61	148.7	119.4	179.0
98	65.8	51.1	76.7

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#24

1,1-Dichloroethane

Concen: 58.338 ug/l

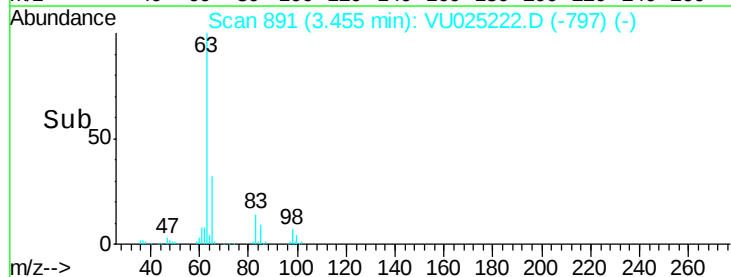
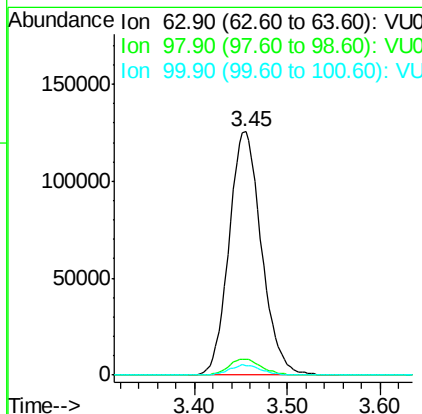
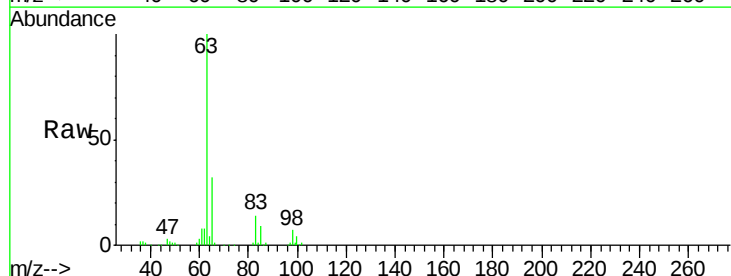
RT: 3.45 min Scan# 891

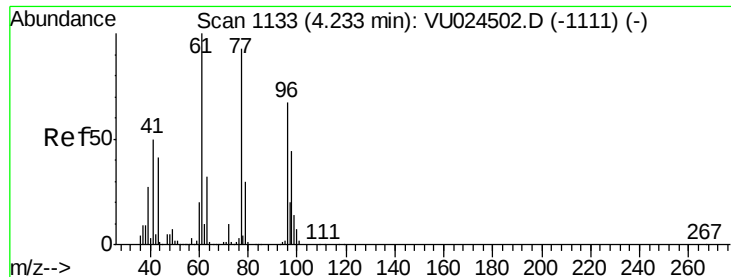
Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Tgt Ion:	63	Resp:	304644
Ion Ratio	Lower	Upper	
63	100		
98	6.6	3.5	10.4
100	4.1	1.8	5.5





#27

cis-1,2-Dichloroethene

Concen: 9519.193 ug/l m

RT: 4.22 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Tot Ion: 96 Resp: 29727049

Ion Ratio Lower Upper

96 100

61 0.0 0.0 306.6

98 0.0 0.0 128.8

Instrument :

MSVOA_U

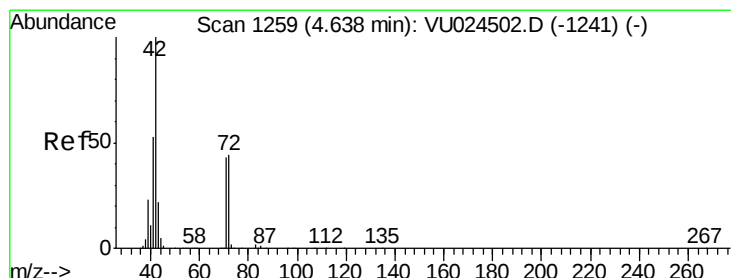
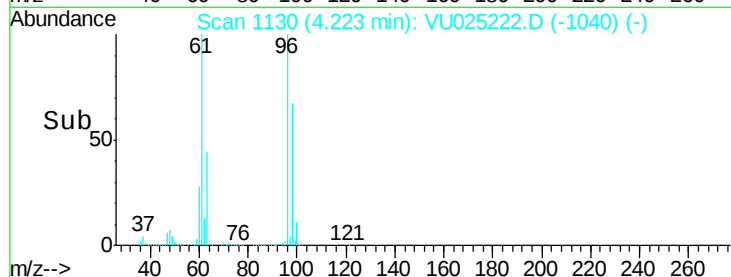
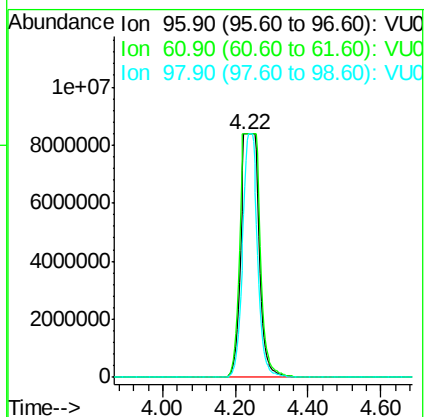
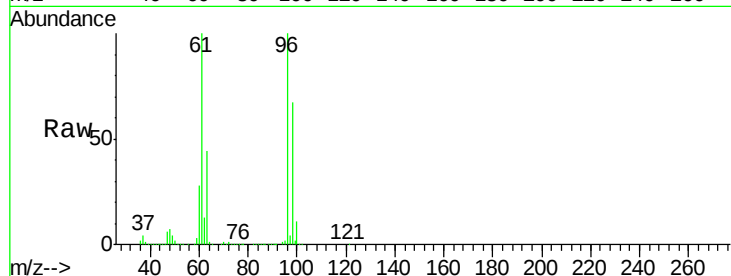
ClientSampleId :

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#29

Tetrahydrofuran

Concen: 12.001 ug/l

RT: 4.64 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

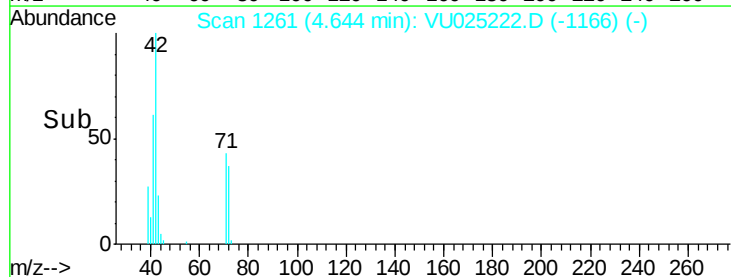
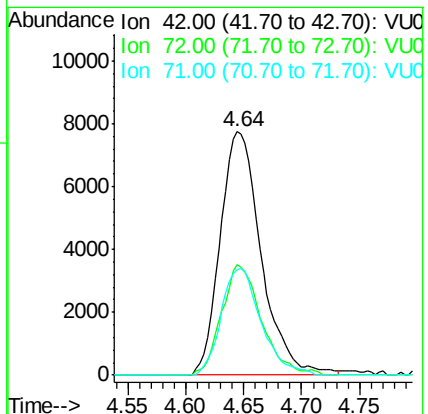
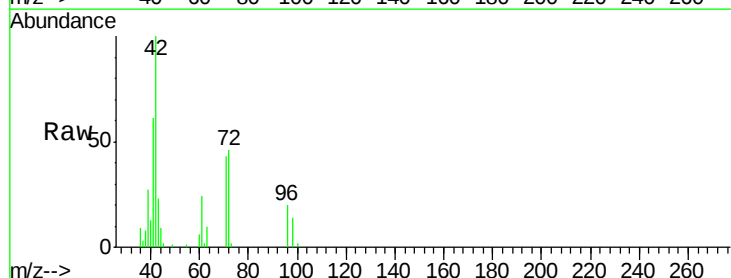
Tgt Ion: 42 Resp: 18965

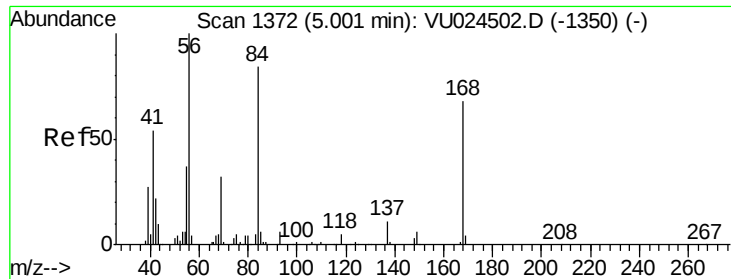
Ion Ratio Lower Upper

42 100

72 43.7 34.5 51.7

71 42.7 32.2 48.4





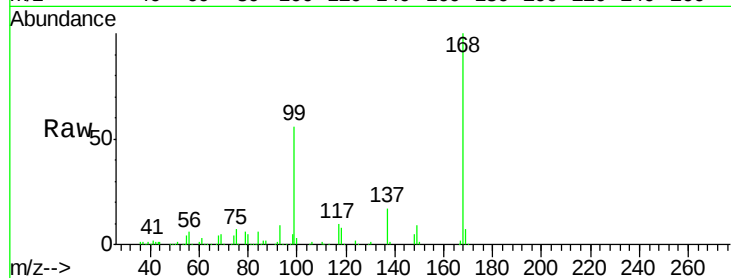
#31
Cyclohexane
Concen: 1.215 ug/l
RT: 4.99 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VU025222.D
Acq: 05 Jul 2018 17:52

Instrument :
MSVOA_U
ClientSampleId :
WP021IW454-180628

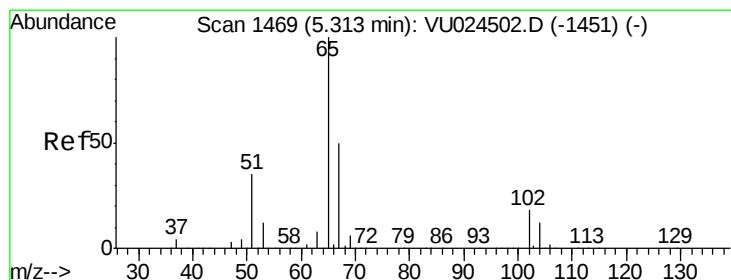
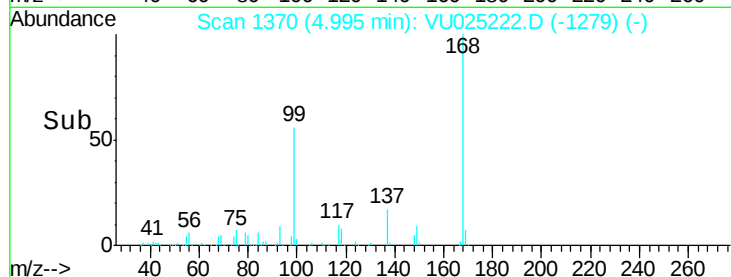
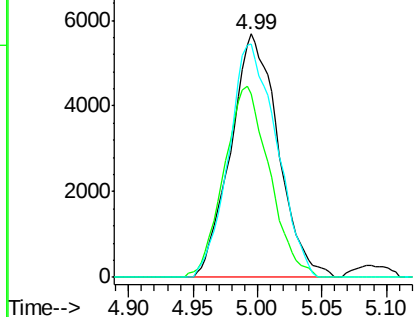
Tot Ion	Ratio	Lower	Upper
56	100		
69	75.2	24.8	37.2#
84	95.8	65.2	97.8

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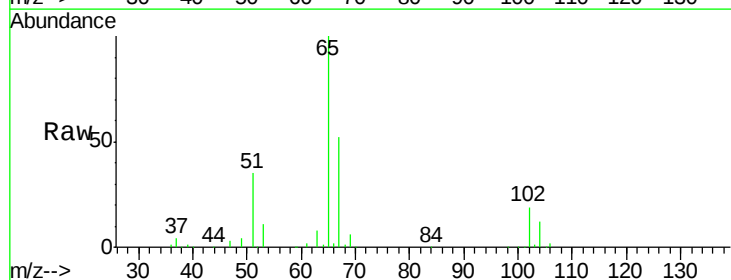


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

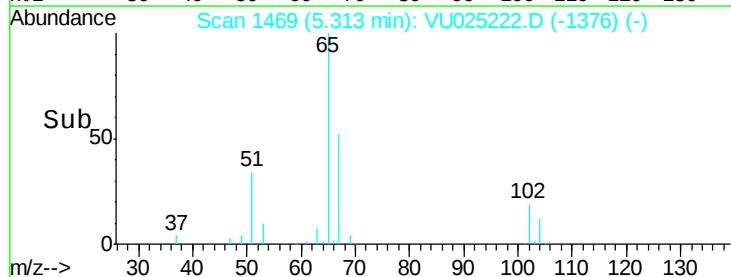
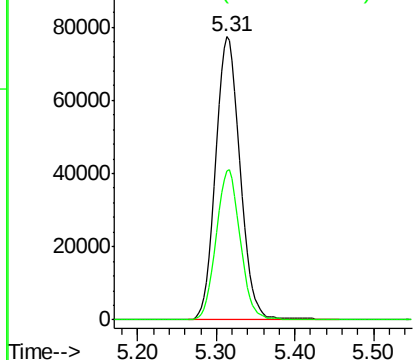


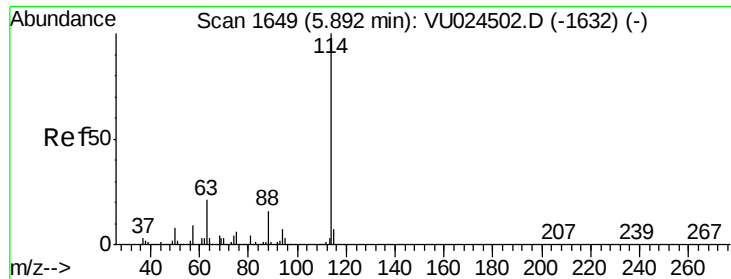
#33
1,2-Dichloroethane-d4
Concen: 46.974 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025222.D
Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	107.0



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





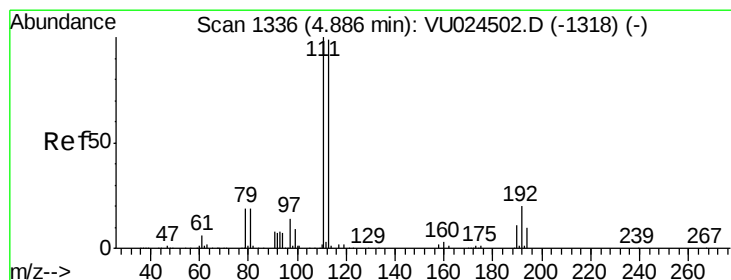
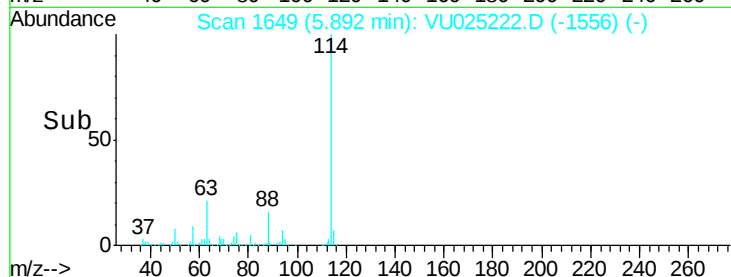
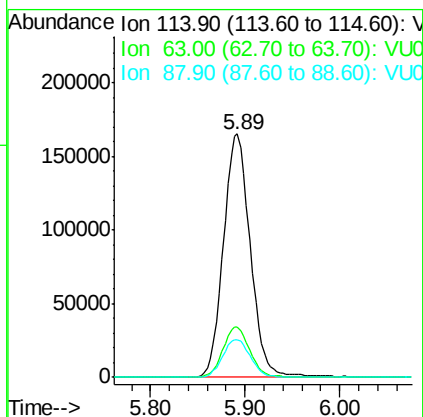
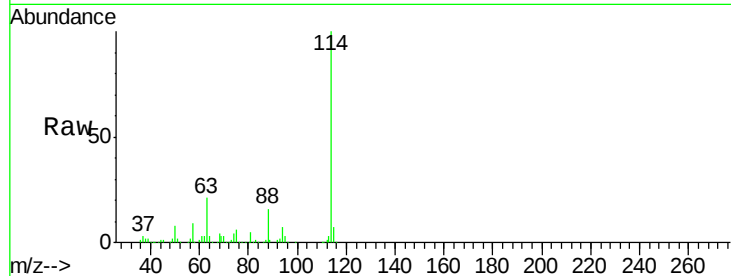
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU025222.D
 Acq: 05 Jul 2018 17:52

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	20.6	0.0	45.4
88	15.7	0.0	31.0

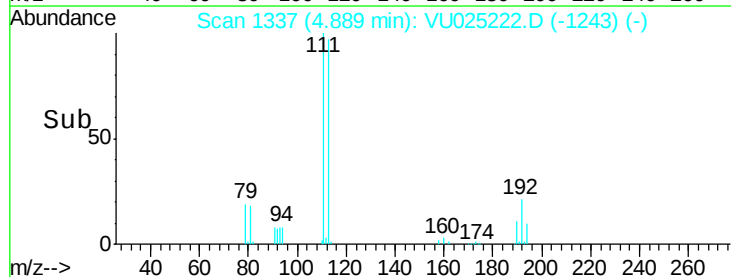
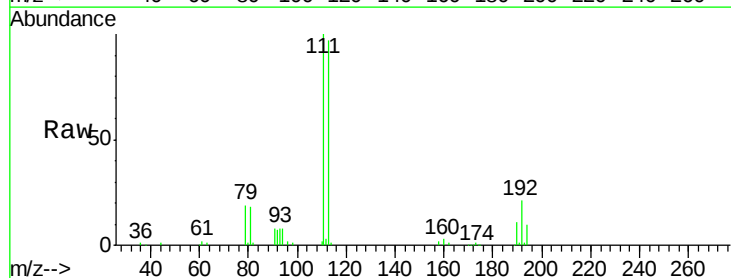
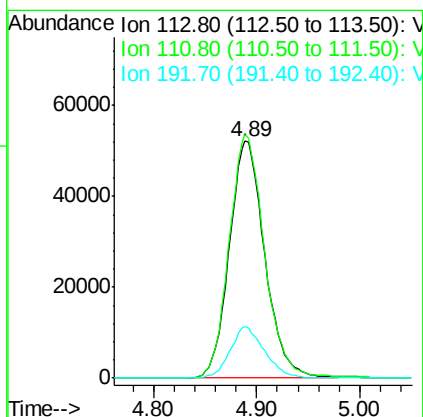
Manual Integrations
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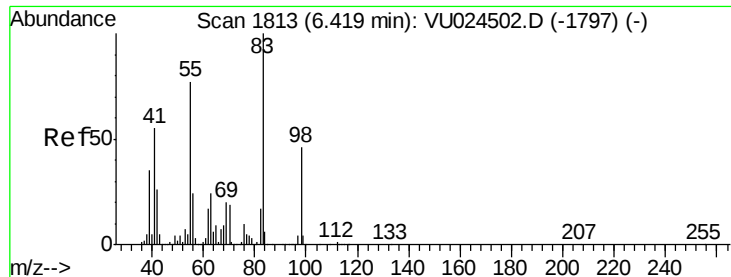
sam
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#35
 Dibromofluoromethane
 Concen: 46.040 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025222.D
 Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	102.6	82.2	123.4
192	21.0	16.2	24.4





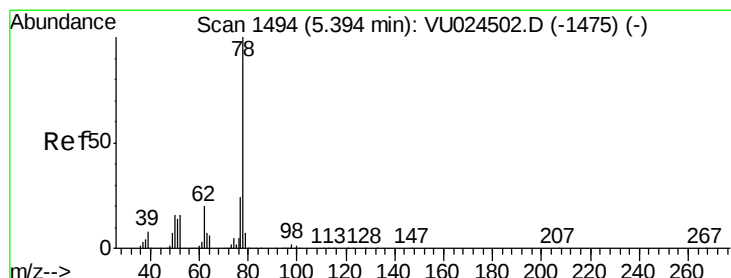
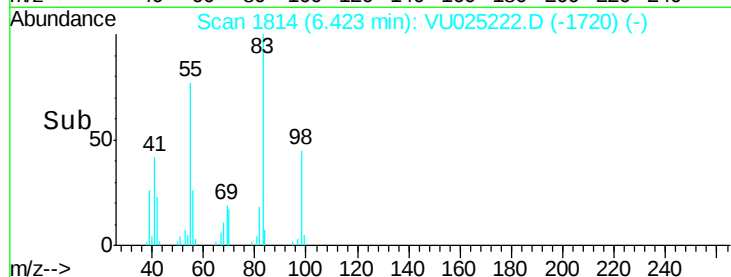
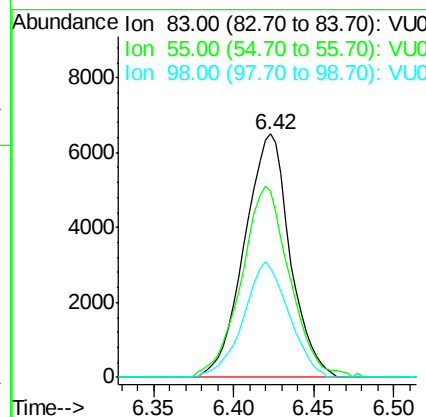
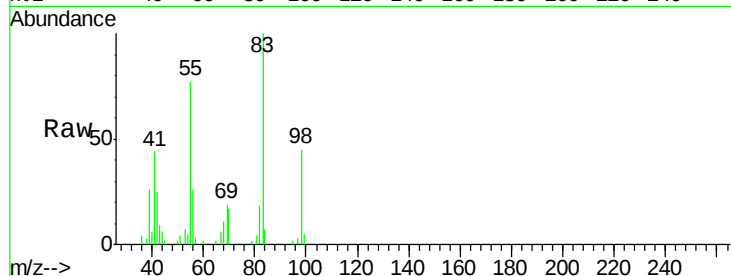
#39
Methvlcvclohexane
Concen: 2.645 ug/l
RT: 6.42 min Scan# 1814
Delta R.T. 0.00 min
Lab File: VU025222.D
Acq: 05 Jul 2018 17:52

Instrument :
MSVOA_U
ClientSampleId :
WP021IW454-180628

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.5	65.8	98.6
98	45.1	36.7	55.1

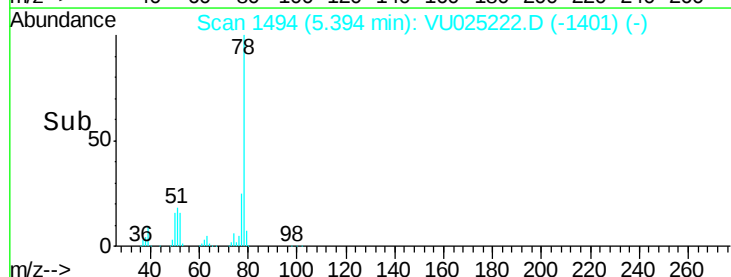
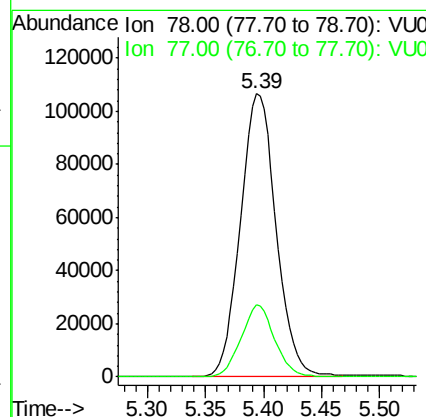
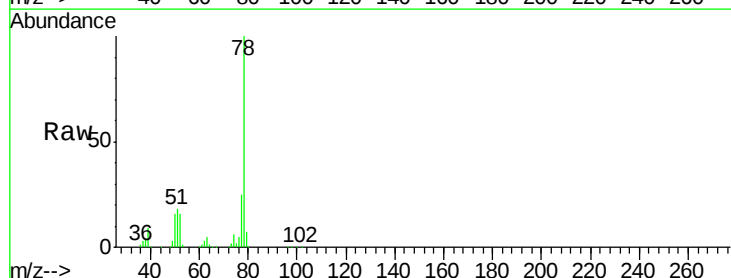
Manual Integrations
APPROVED

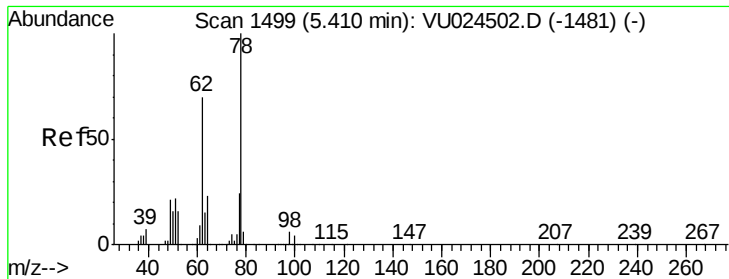
sam
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#40
Benzene
Concen: 20.942 ug/l
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU025222.D
Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	19.2	28.8





#42

1,2-Dichloroethane

Concen: 3.749 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

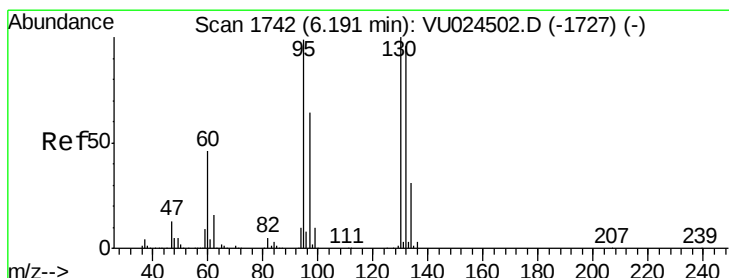
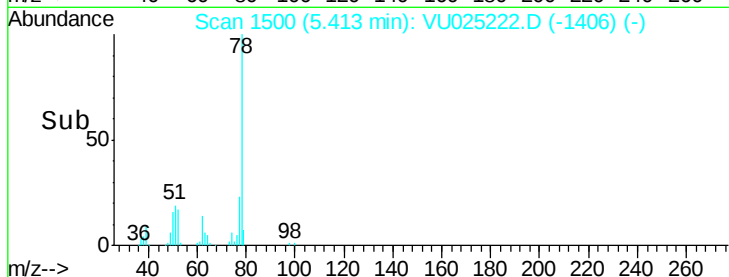
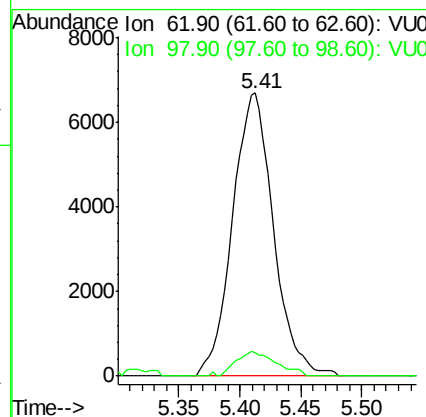
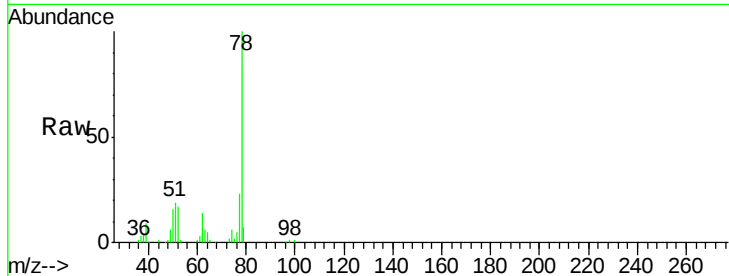
ClientSampleId :

WP021IW454-180628

Tot Ion	Ratio	Resp	Lower	Upper
62	100	15595		
98	8.5	0.0	0.0	16.6

Manual Integrations
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#44

Trichloroethene

Concen: 156.976 ug/l

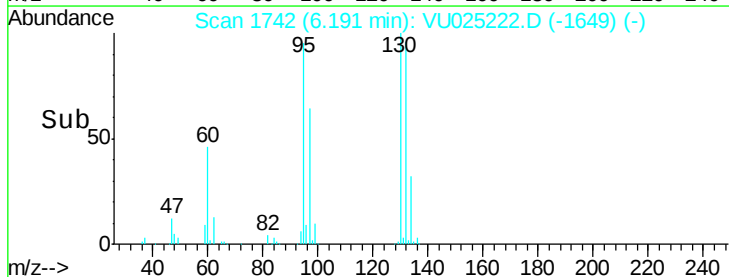
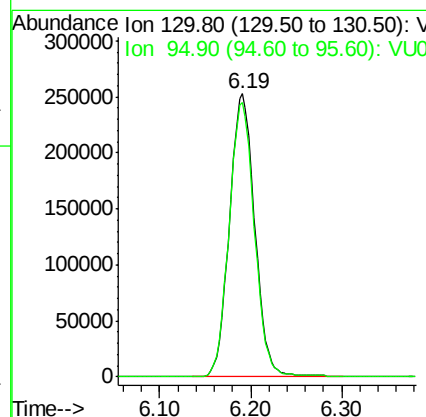
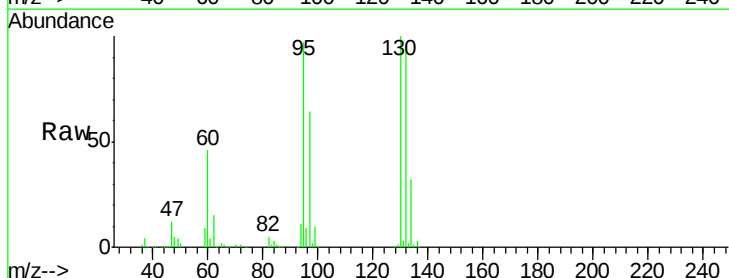
RT: 6.19 min Scan# 1742

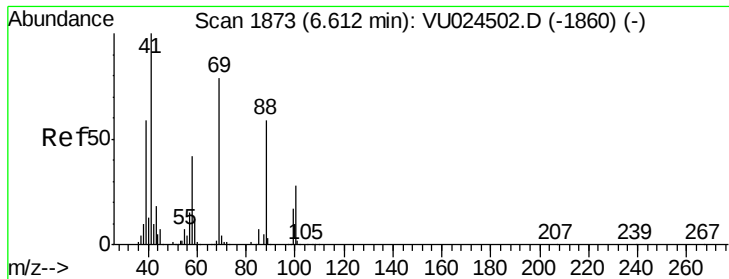
Delta R.T. -0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	487983		
95	97.0	0.0	0.0	202.4





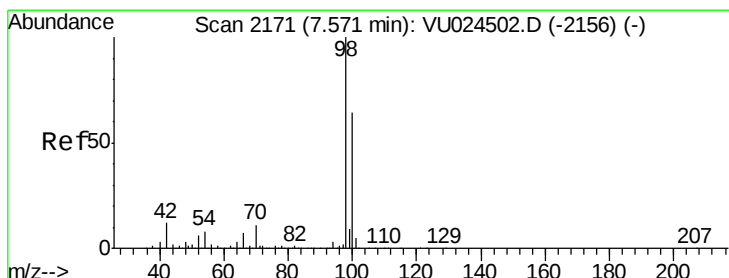
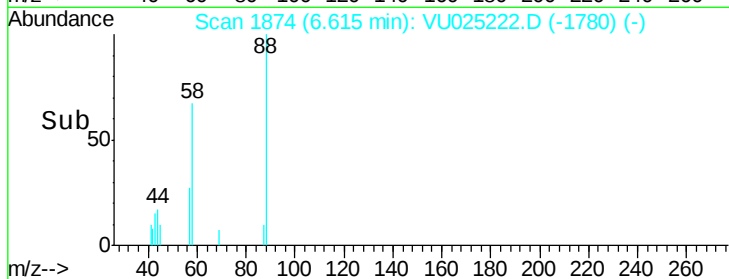
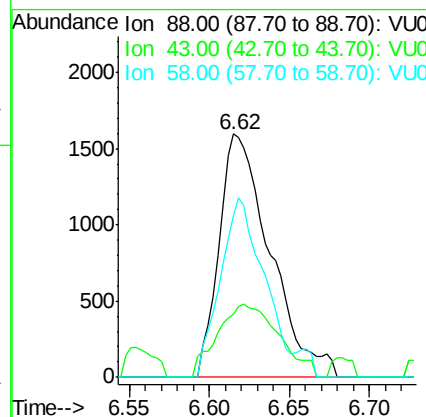
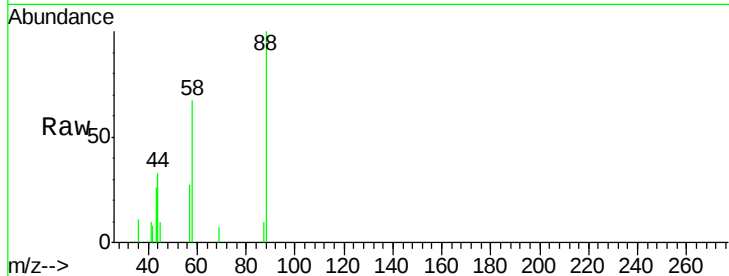
#49
 1,4-Dioxane
 Concen: 50.747 ug/l
 RT: 6.62 min Scan# 1874
 Delta R.T. 0.00 min
 Lab File: VU025222.D
 Acq: 05 Jul 2018 17:52

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.2	28.6	42.8
58	62.6	58.2	87.4

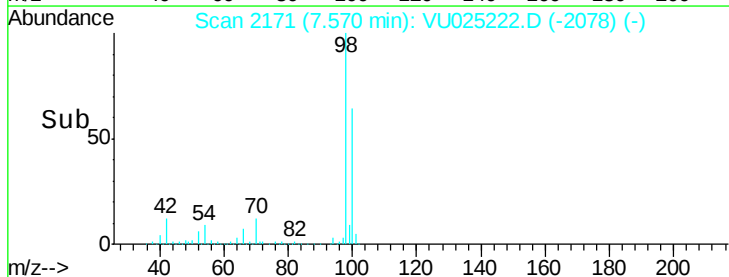
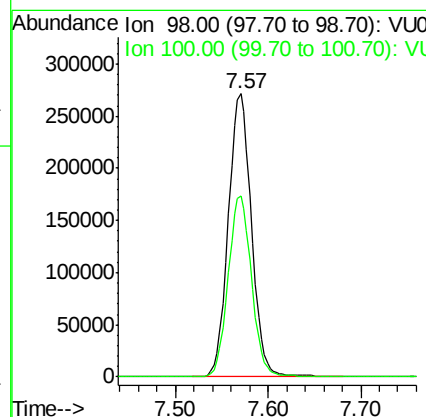
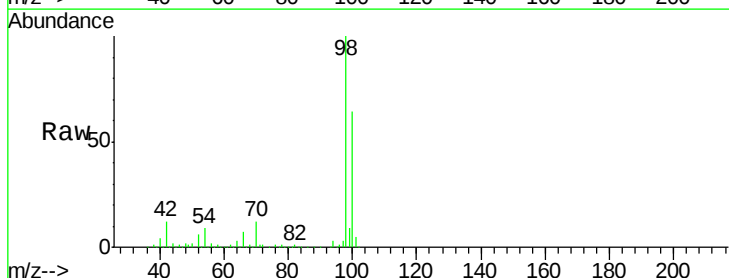
Manual Integrations
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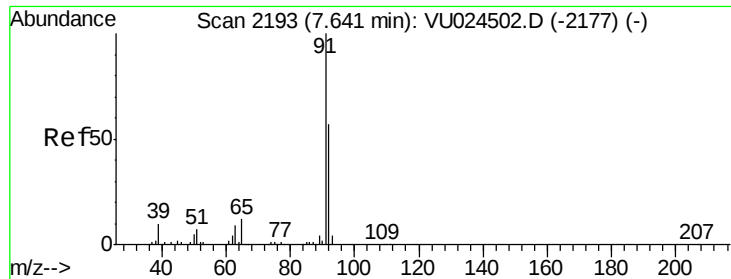
sam
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#50
 Toluene-d8
 Concen: 47.642 ug/l
 RT: 7.57 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VU025222.D
 Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7





#52

Toluene

Concen: 3.619 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628

Tot Ion: 92 Resp: 25429

Ion Ratio Lower Upper

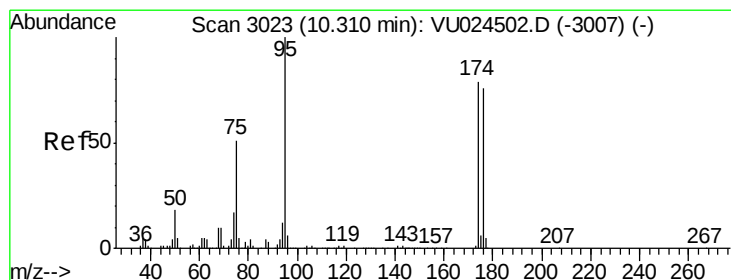
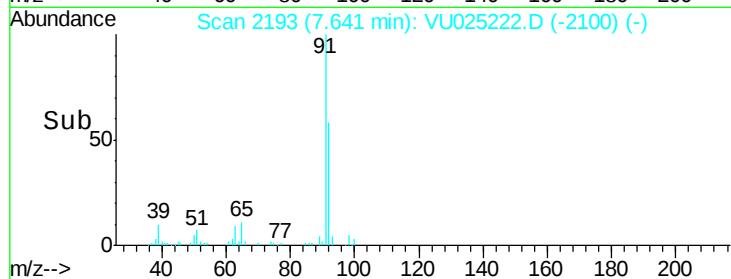
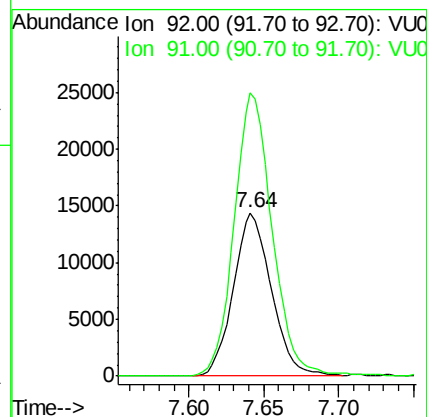
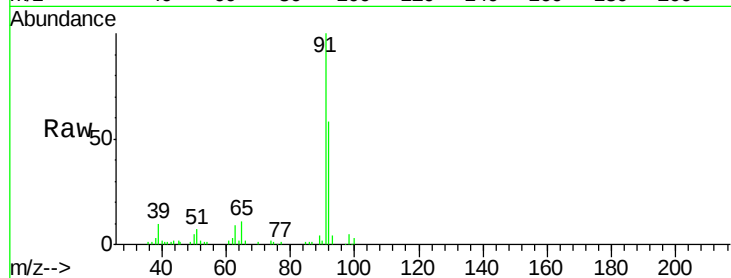
92 100

91 173.7 140.5 210.7

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 45.613 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

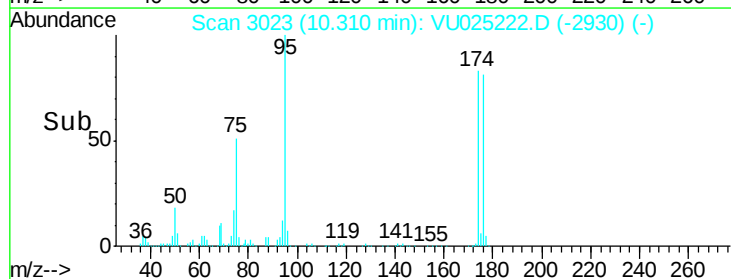
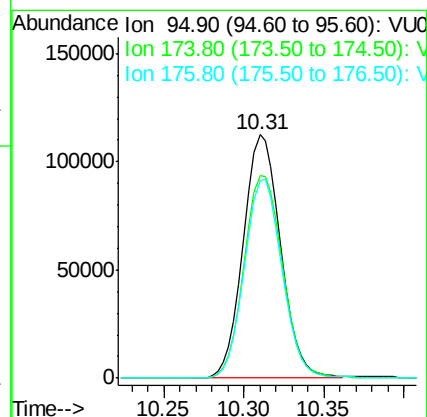
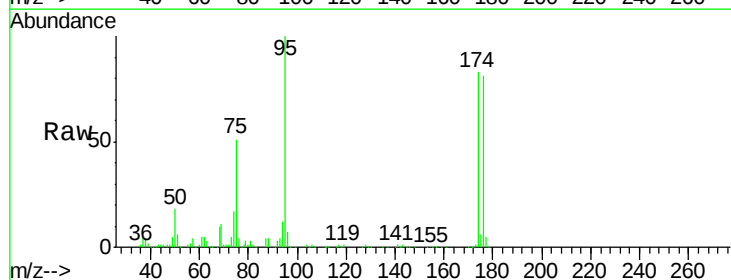
Tgt Ion: 95 Resp: 178846

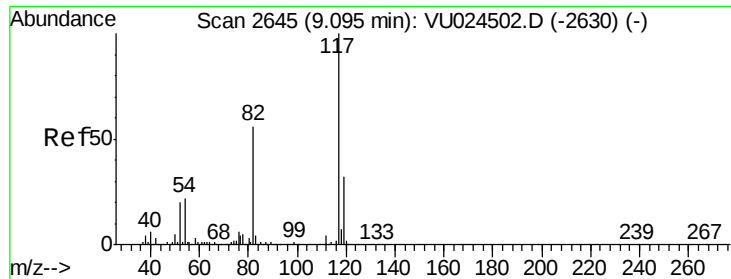
Ion Ratio Lower Upper

95 100

174 86.3 0.0 165.8

176 82.7 0.0 159.4





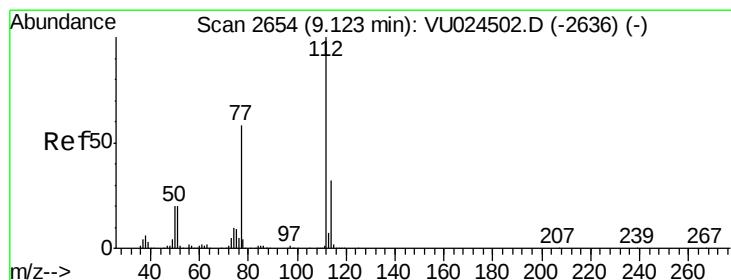
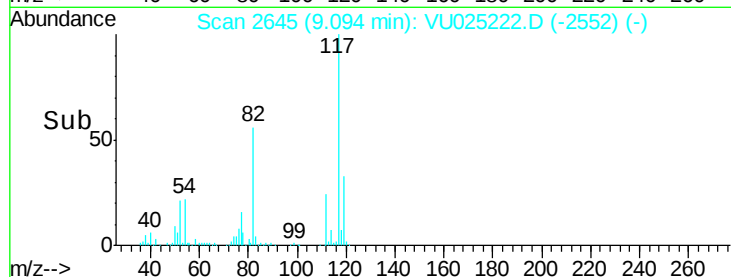
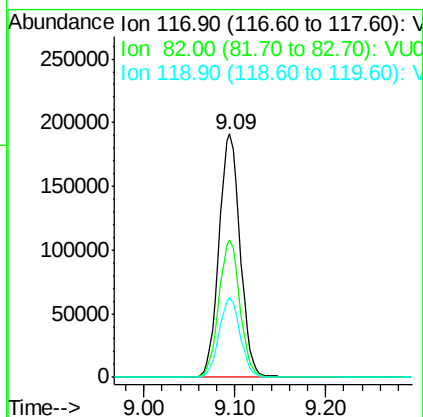
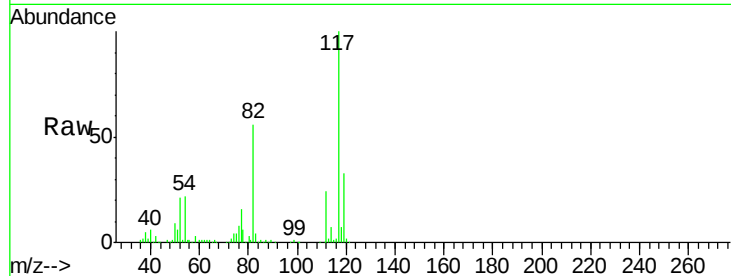
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025222.D
Acq: 05 Jul 2018 17:52

Instrument :
MSVOA_U
ClientSampleId :
WP021IW454-180628

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.3	66.5
119	32.7	25.4	38.2

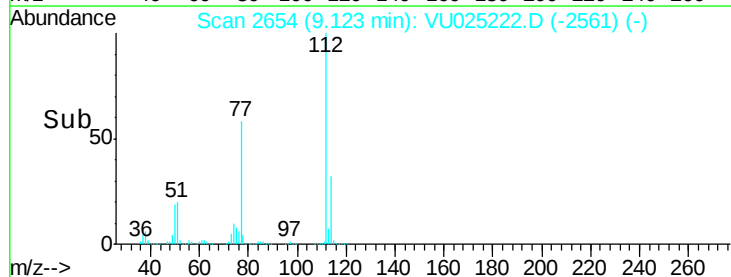
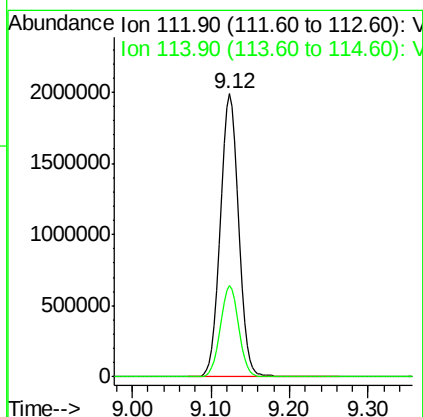
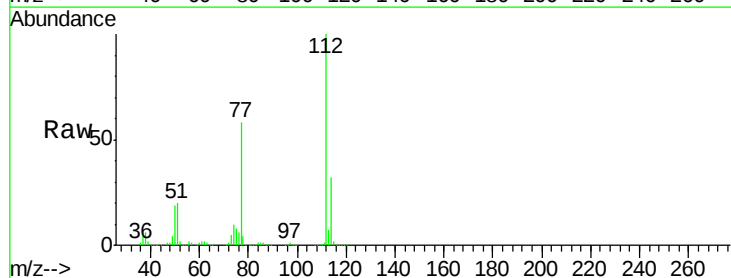
Manual Integrations
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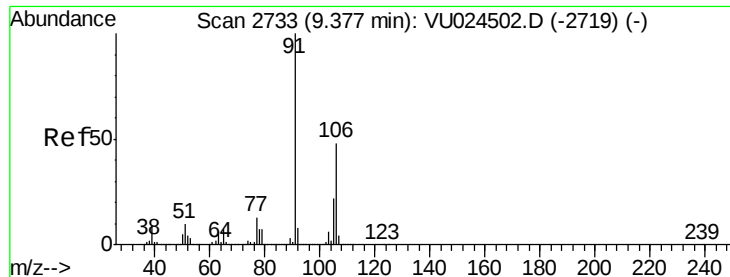
sam
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#65
Chlorobenzene
Concen: 403.603 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU025222.D
Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.6	38.4





#68

m/p-Xvlenes

Concen: 0.566 ug/l

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628

Tot Ion:106 Resp: 3008

Ion Ratio Lower Upper

106 100

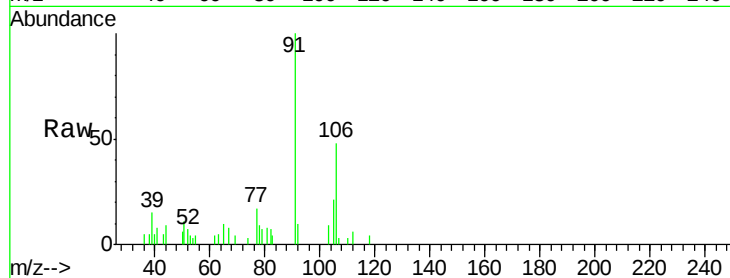
91 215.6 166.5 249.7

Manual Integrations

APPROVED

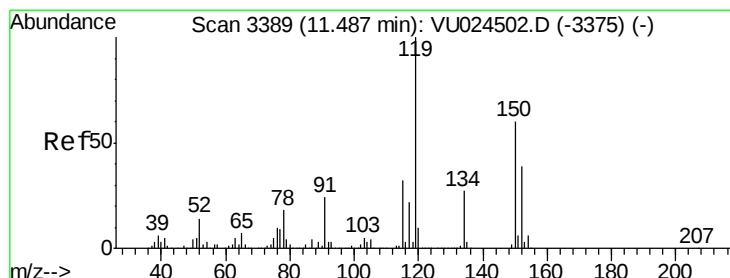
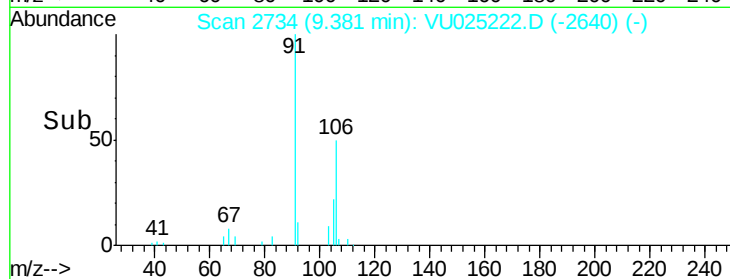
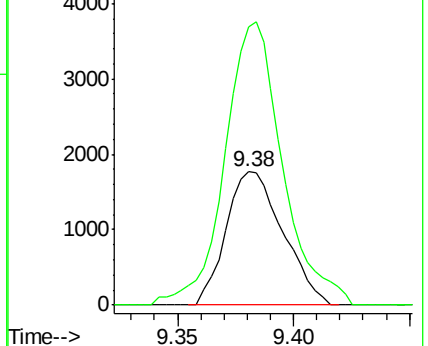
sam

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

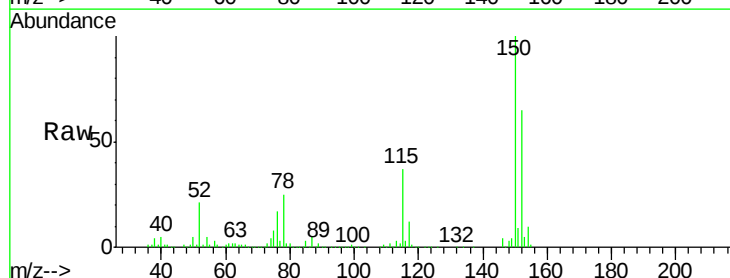
Tgt Ion:152 Resp: 169527

Ion Ratio Lower Upper

152 100

115 56.9 43.0 129.0

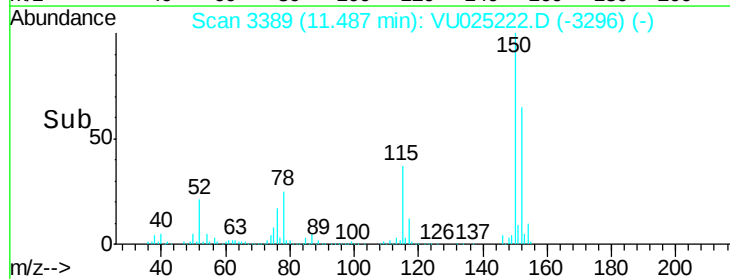
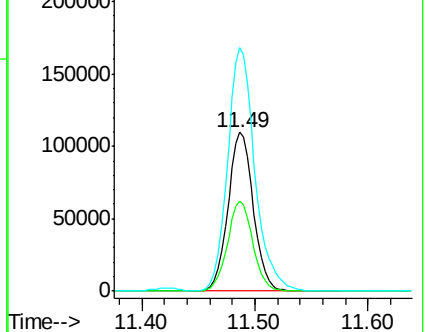
150 165.9 0.0 354.0

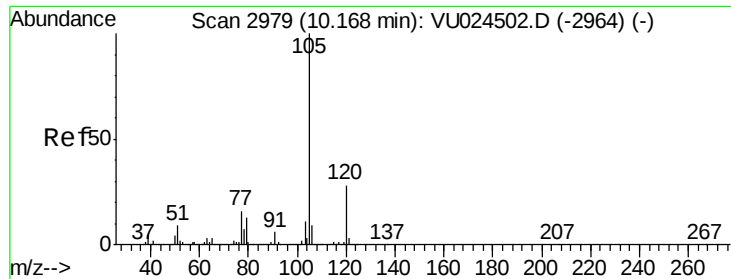


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.360 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628

Tot Ion:105 Resp: 30717

Ion Ratio Lower Upper

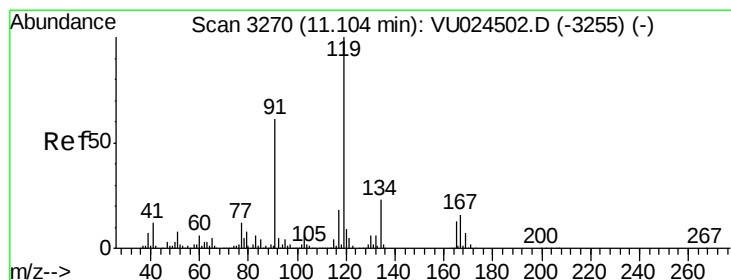
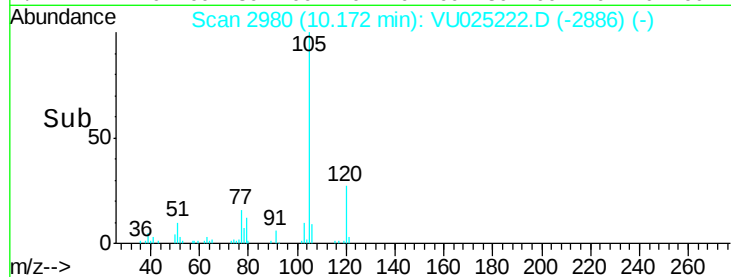
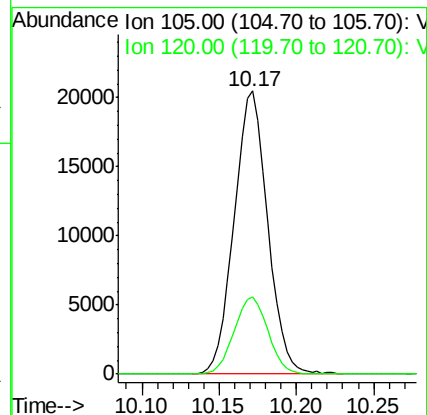
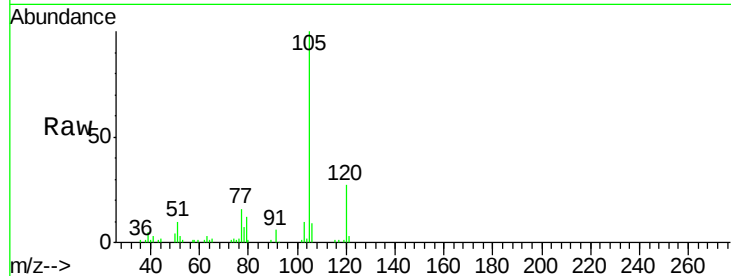
105 100

120 27.5 13.2 39.6

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#83

tert-Butylbenzene

Concen: 3.458 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. -0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

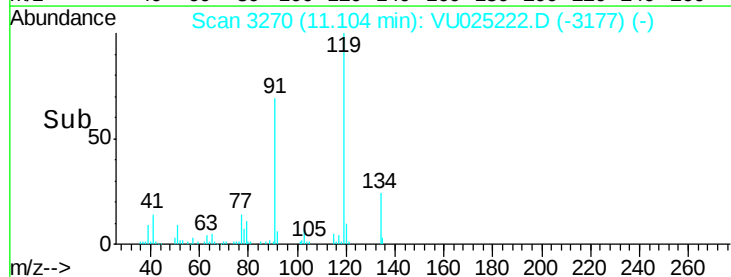
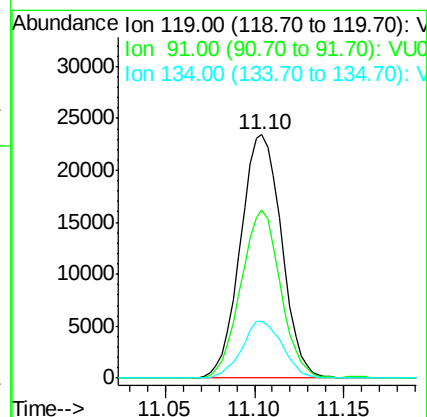
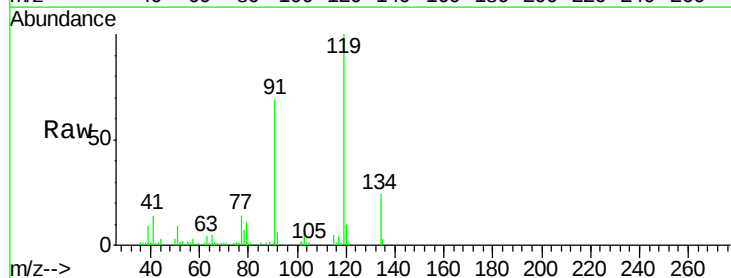
Tgt Ion:119 Resp: 37520

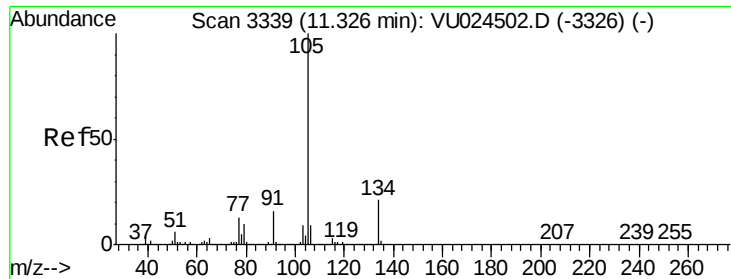
Ion Ratio Lower Upper

119 100

91 66.5 29.7 89.1

134 23.0 11.6 34.7





#85

sec-Butylbenzene

Concen: 1.709 ug/l

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

Instrument :

MSVOA_U

ClientSampleId :

WP021IW454-180628

Tot Ion:105 Resp: 23208

Ion Ratio Lower Upper

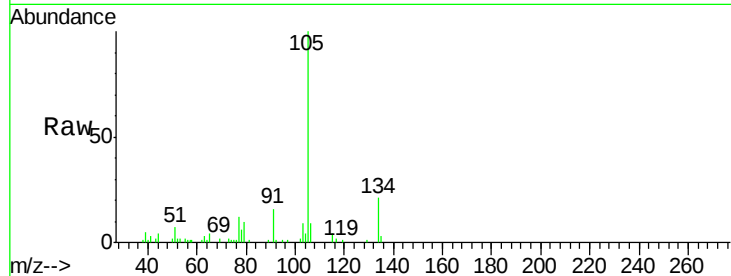
105 100

134 19.1 9.7 29.1

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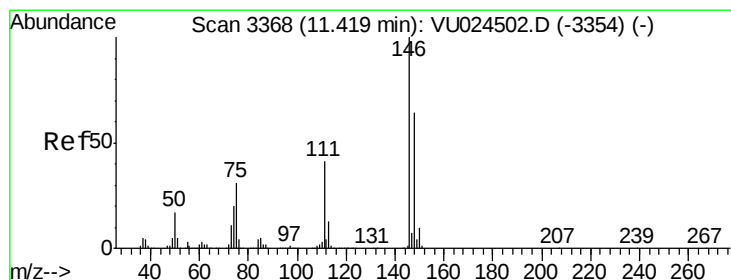
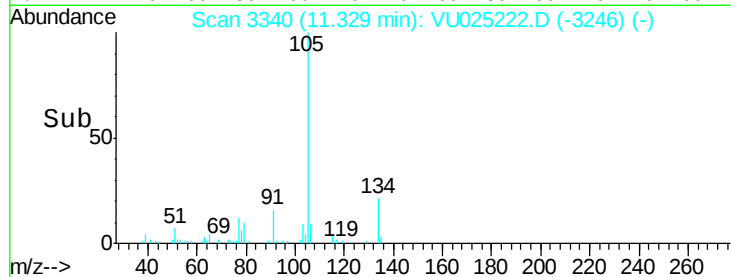
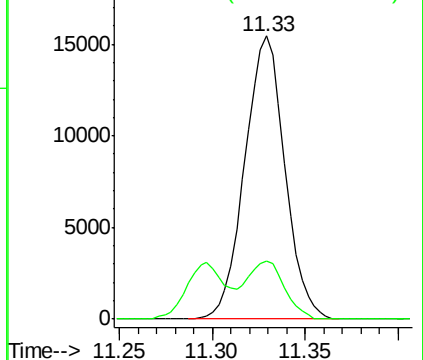
sam

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 6.079 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU025222.D

Acq: 05 Jul 2018 17:52

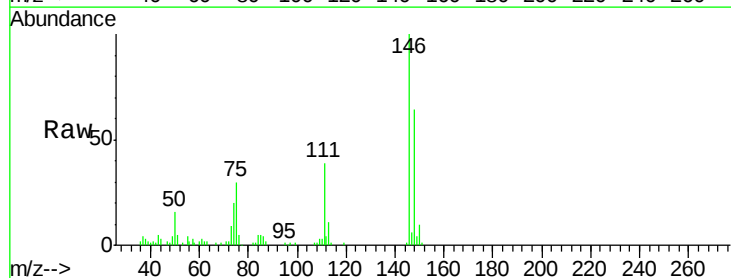
Tgt Ion:146 Resp: 37008

Ion Ratio Lower Upper

146 100

111 38.8 20.0 60.0

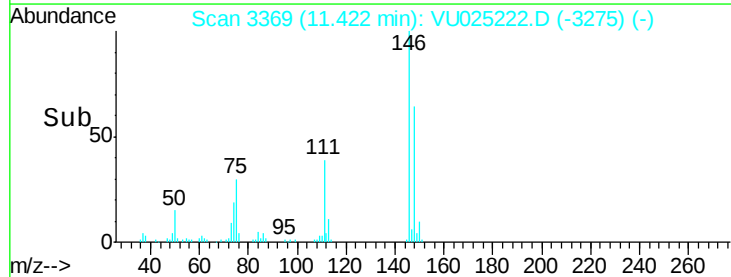
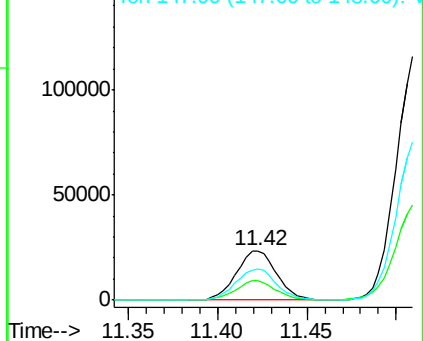
148 63.9 32.1 96.5

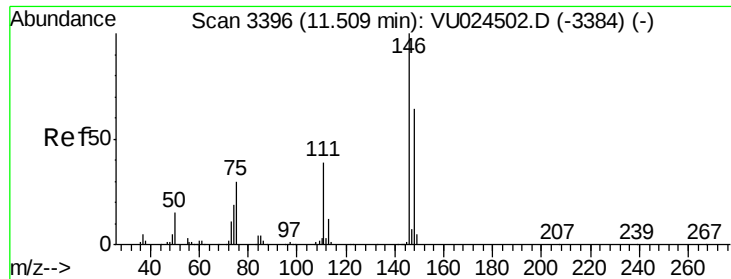


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





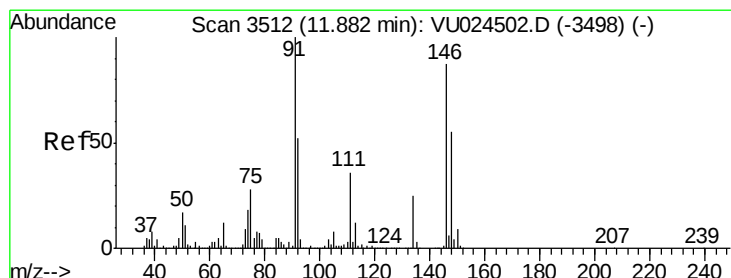
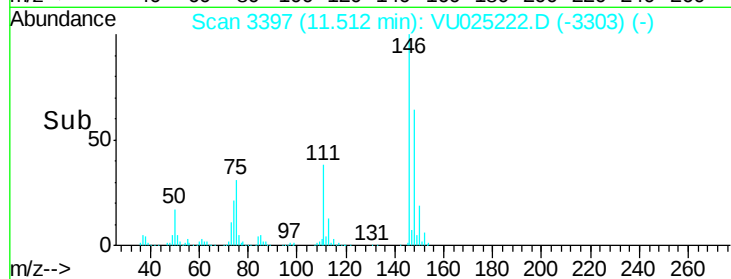
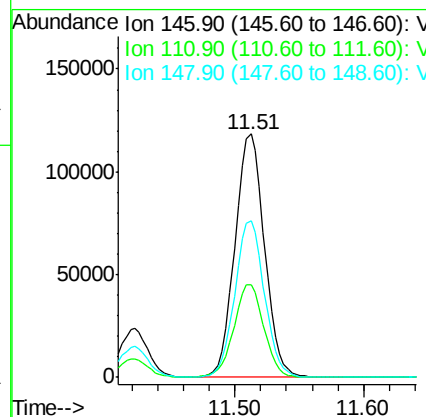
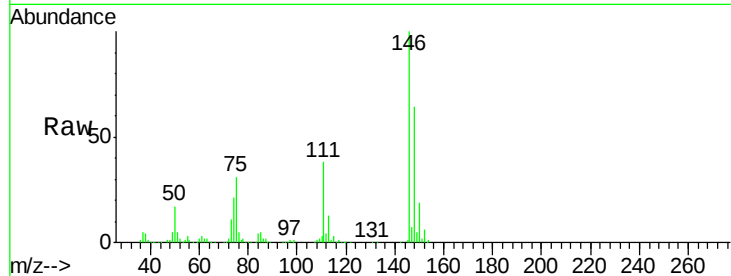
#88
 1,4-Dichlorobenzene
 Concen: 30.580 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025222.D
 Acq: 05 Jul 2018 17:52

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021IW454-180628

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.5	58.5
148	64.5	32.4	97.0

Manual Integrations
 APPROVED

sam
 7/6/2018 4:22:21 PM



#91
 1,2-Dichlorobenzene
 Concen: 208.501 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025222.D
 Acq: 05 Jul 2018 17:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.5	61.6
148	64.3	31.9	95.7

