

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080618\
 Data File : VU025912.D
 Acq On : 07 Aug 2018 02:17
 Operator : MD/SY
 Sample : J4263-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0517

Manual Integrations
 APPROVED

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 8/20/2018 5:45:35 PM

Quant Time: Aug 08 04:08:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 00:49:55 2018
 Response via : Initial Calibration

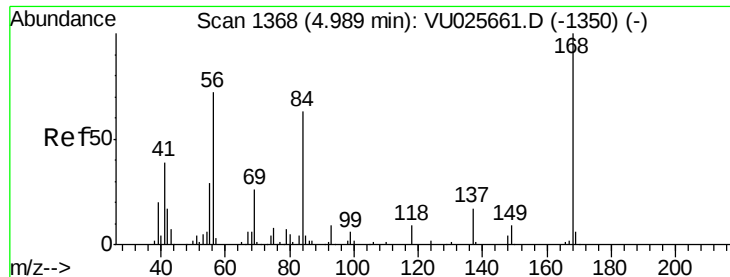
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	191227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	303806	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	296882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	195172	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	147108	49.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.74%	
35) Dibromofluoromethane	4.89	113	124063	46.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.90%	
50) Toluene-d8	7.57	98	452000	48.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.76%	
62) 4-Bromofluorobenzene	10.31	95	174217	48.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.08%	
Target Compounds						
						Qvalue
31) Cyclohexane	5.00	56	288992	76.843	ug/l	98
39) Methylcyclohexane	6.42	83	313923	77.168	ug/l	98
40) Benzene	5.40	78	16938	1.632	ug/l	100
67) Ethyl Benzene	9.25	91	866270	68.324	ug/l	99
68) m/p-Xylenes	9.38	106	1109675	227.968	ug/l	99
69) o-Xylene	9.78	106	104213	21.906	ug/l	98
73) Isopropylbenzene	10.17	105	91151	6.843	ug/l	99
78) n-propylbenzene	10.59	91	101599	6.535	ug/l	100
80) 1,3,5-Trimethylbenzene	10.78	105	759315	67.118	ug/l	99
83) tert-Butylbenzene	11.10	119	6129m	0.545	ug/l	
84) 1,2,4-Trimethylbenzene	11.15	105	2829337	246.797	ug/l	98
85) sec-Butylbenzene	11.33	105	21014m	1.531	ug/l	
86) p-Isopropyltoluene	11.48	119	84645	6.888	ug/l	100
95) Naphthalene	13.74	128	446976	31.322	ug/l	98

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

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8/20/2018 5:45:35 PM

The chromatogram displays a series of peaks corresponding to different chemical compounds. The y-axis represents Abundance, ranging from 0 to 6,000,000. The x-axis represents Time in minutes, ranging from 1.00 to 17.00. The following table lists the labeled compounds and their approximate retention times:

Compound	Approximate Retention Time (min)
1,2-Dichloroethane-d4, S	5.00
1,4-Difluorobenzene, I	5.50
Methylcyclohexane, T	6.50
Toluene-d8, S	7.50
Chlorobenzene-d5, I	9.00
Ethyl Benzene, C	9.50
m/p-Xylenes, T	10.00
o-Xylene, T	10.50
Isopropylbenzene, T	11.00
4-Bromofluorobenzene, S	11.50
n-propylbenzene, T	12.00
1,3,5-Trimethylbenzene, T	12.50
tert-Butylbenzene, T	13.00
sec-Butylbenzene, T	13.50
1,4-Dibromobenzene-d4, I	14.00
1,2,4-Trimethylbenzene, T	14.50
Naphthalene, T	15.00



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

Instrument :

MSVOA_U

ClientSampled :

FL-0517

Tgt Ion:168 Resp: 191227

Ion Ratio Lower Upper

168 100

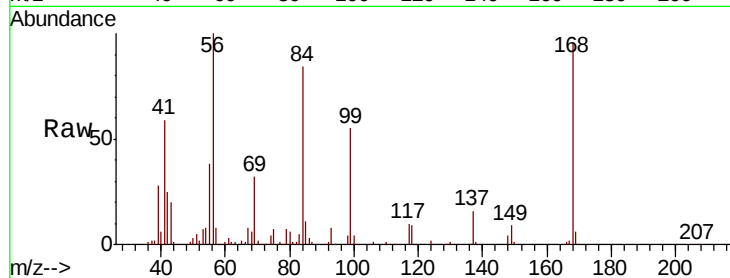
99 57.1 42.8 64.2

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Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)

4.99

80000

60000

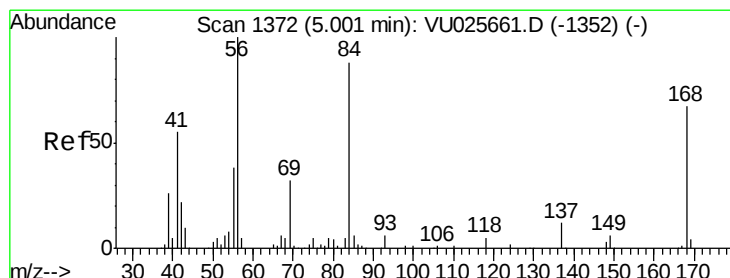
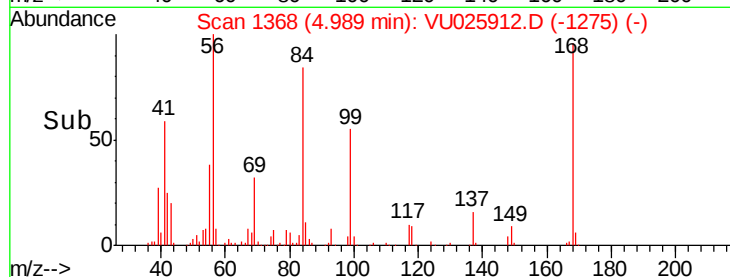
40000

20000

0

4.90 5.00 5.10

Time-->



#31

Cyclohexane

Concen: 76.843 ug/l

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

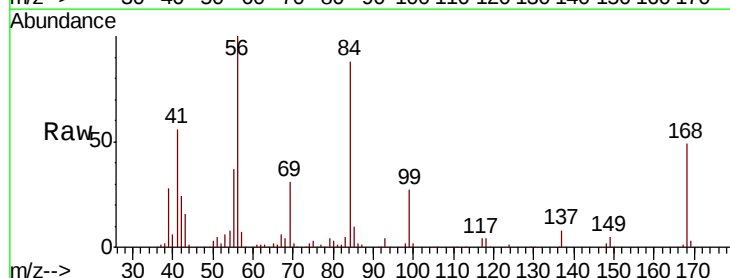
Tgt Ion: 56 Resp: 288992

Ion Ratio Lower Upper

56 100

69 31.0 26.8 40.2

84 87.6 69.7 104.5



Abundance Ion 56.00 (55.70 to 56.70): VU025661.D (-1352) (-)

Ion 69.00 (68.70 to 69.70): VU025661.D (-1352) (-)

Ion 84.00 (83.70 to 84.70): VU025661.D (-1352) (-)

5.00

150000

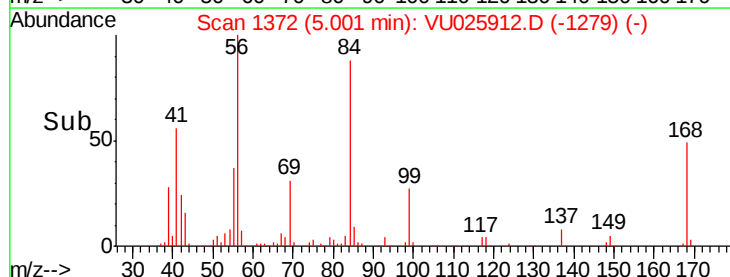
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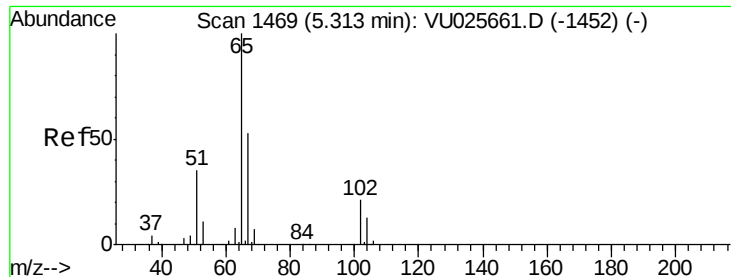
50000

0

4.90 4.95 5.00 5.05

Time-->





#33

1,2-Dichloroethane-d4

Concen: 49.373 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

Instrument :

MSVOA_U

ClientSampleId :

FL-0517

Tgt Ion: 65 Resp: 147108

Ion Ratio Lower Upper

65 100

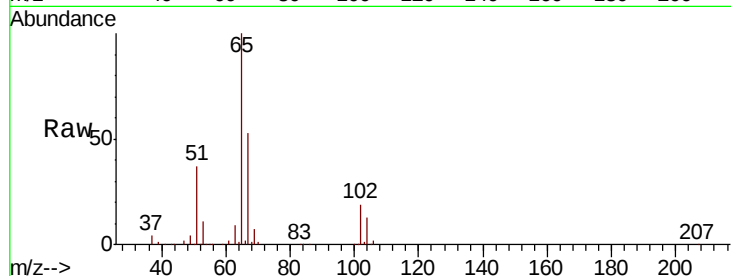
67 51.5 0.0 103.6

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VU025661.D (-1452) (-)

Ion 66.90 (66.60 to 67.60): VU025661.D (-1452) (-)

5.31

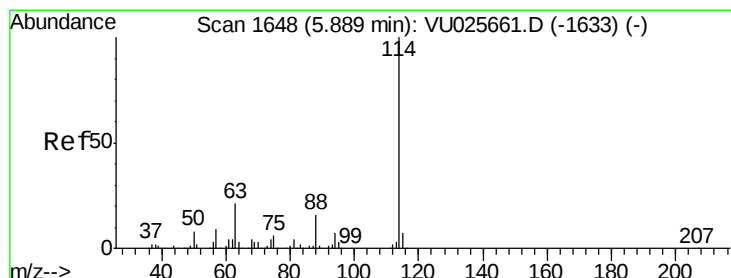
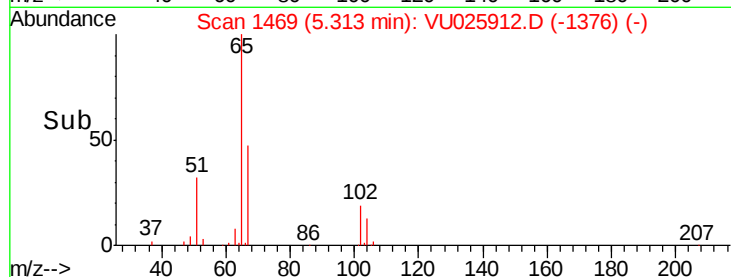
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

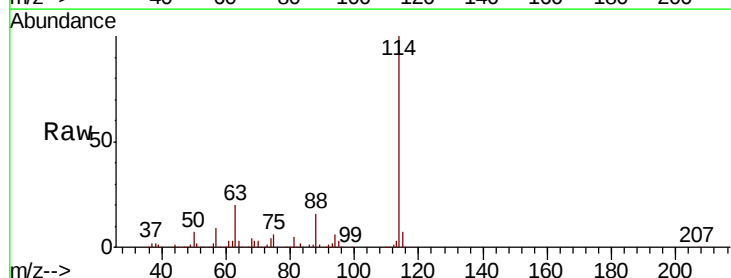
Tgt Ion: 114 Resp: 303806

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.6

88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU025661.D (-1633) (-)

Ion 63.00 (62.70 to 63.70): VU025661.D (-1633) (-)

Ion 87.90 (87.60 to 88.60): VU025661.D (-1633) (-)

5.89

200000

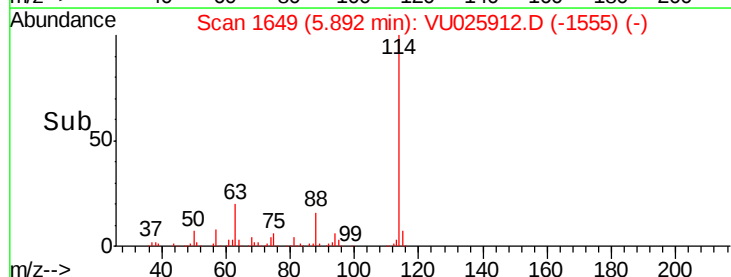
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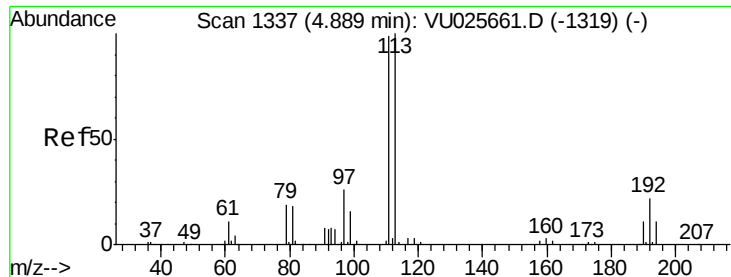
100000

50000

0

Time-->





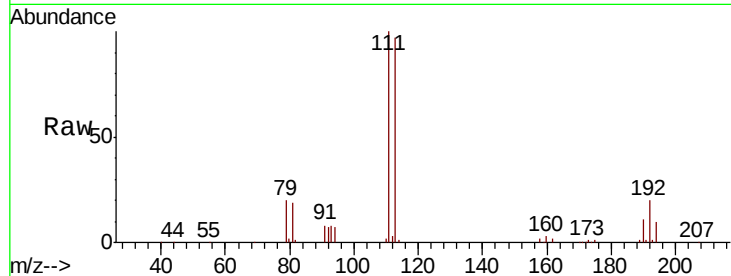
#35
 Dibromofluoromethane
 Concen: 46.952 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025912.D
 Acq: 07 Aug 2018 02:17

Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0517

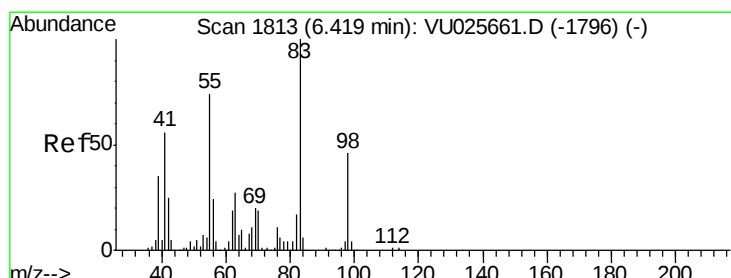
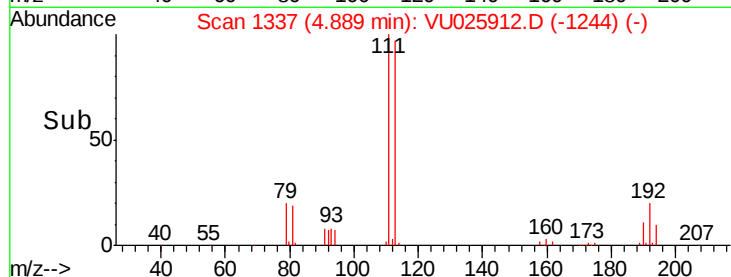
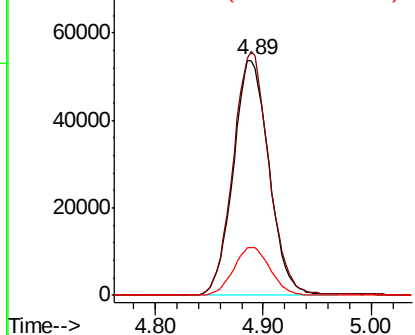
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	124063		
111	103.2	81.7	122.5	
192	20.9	17.1	25.7	

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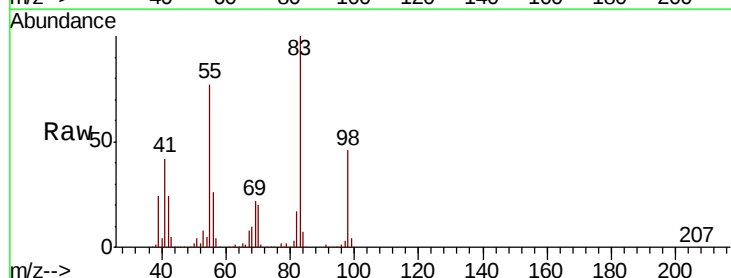


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

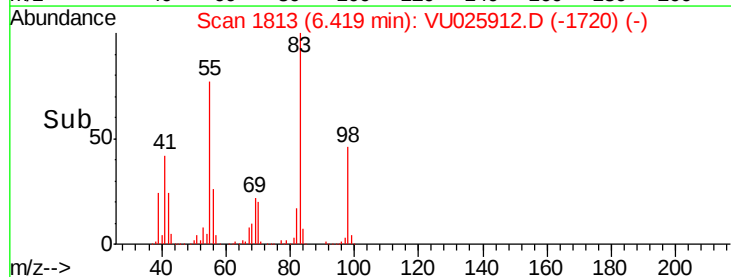
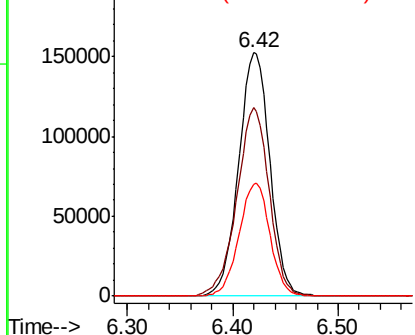


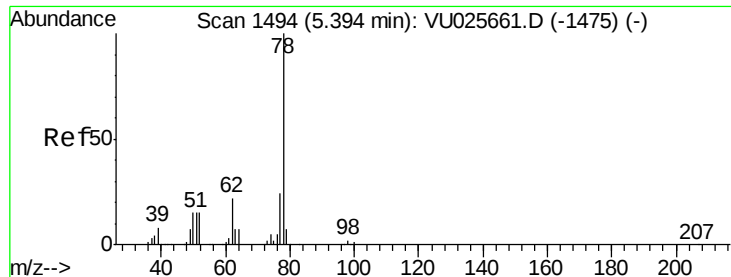
#39
 Methylcyclohexane
 Concen: 77.168 ug/l
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025912.D
 Acq: 07 Aug 2018 02:17

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	313923		
55	77.2	60.0	90.0	
98	45.8	36.1	54.1	



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: 1.632 ug/l

RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

Instrument :

MSVOA_U

ClientSampleId :

FL-0517

Tgt Ion: 78 Resp: 16938

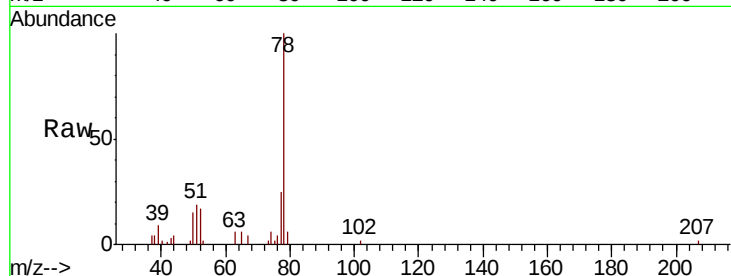
Ion Ratio Lower Upper

78 100

77 24.8 19.8 29.6

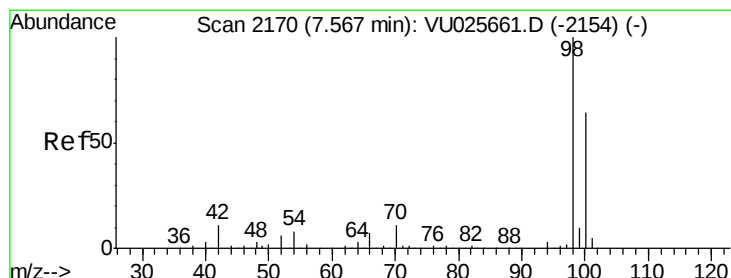
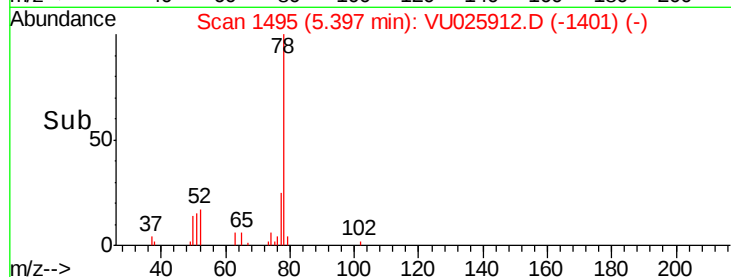
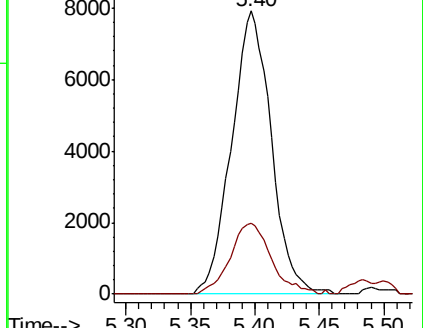
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Abundance Ion 78.00 (77.70 to 78.70): VU025661.D (-1475) (-)

Ion 77.00 (76.70 to 77.70): VU025661.D (-1475) (-)



#50

Toluene-d8

Concen: 48.883 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025912.D

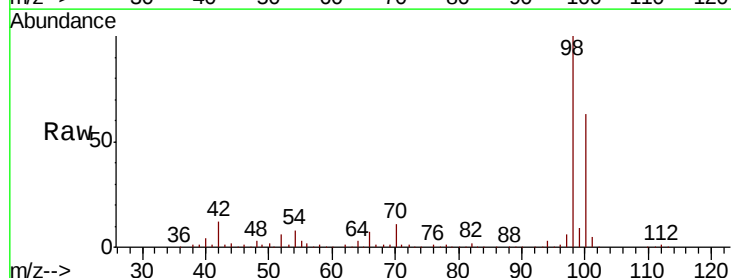
Acq: 07 Aug 2018 02:17

Tgt Ion: 98 Resp: 452000

Ion Ratio Lower Upper

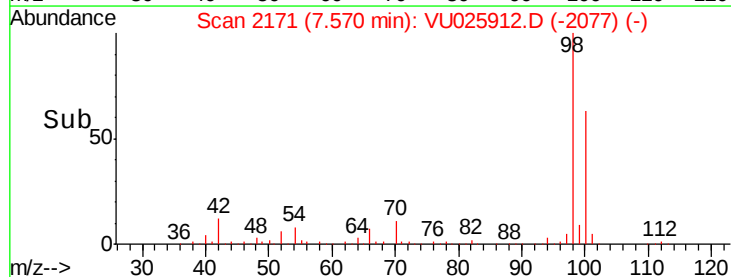
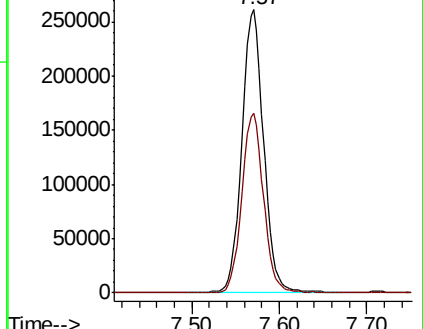
98 100

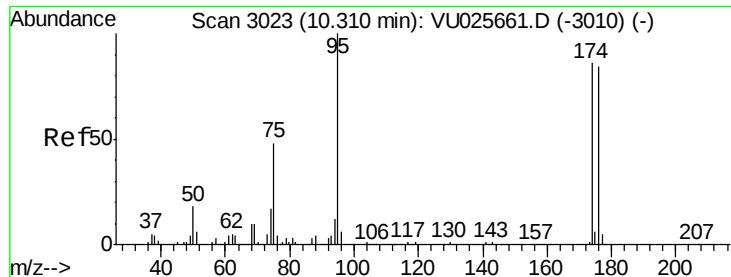
100 62.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025661.D (-2154) (-)

Ion 100.00 (99.70 to 100.70): VU025661.D (-2154) (-)





#62

4-Bromofluorobenzene

Concen: 48.542 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

Instrument :

MSVOA_U

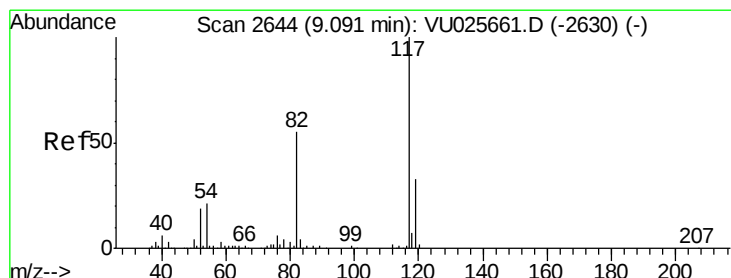
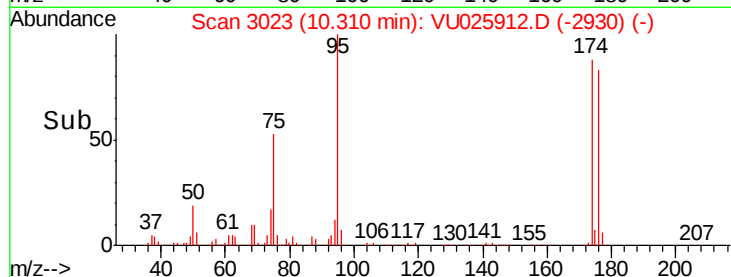
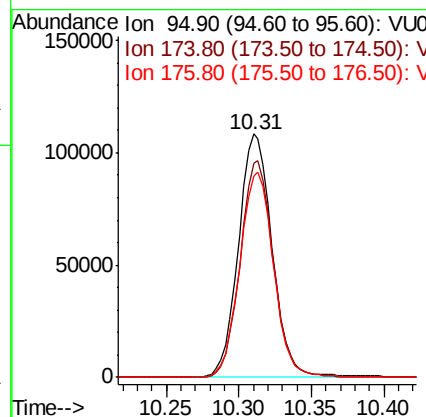
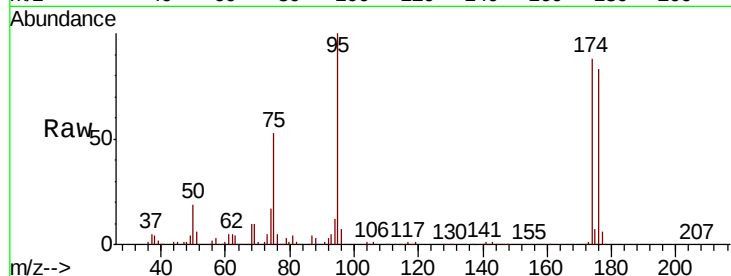
ClientSampleId :

FL-0517

Tgt Ion:	95	Resp:	174217
Ion Ratio	Lower	Upper	
95	100		
174	87.7	0.0	172.2
176	85.2	0.0	162.6

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

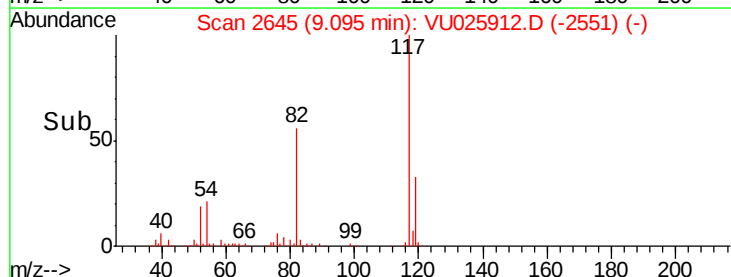
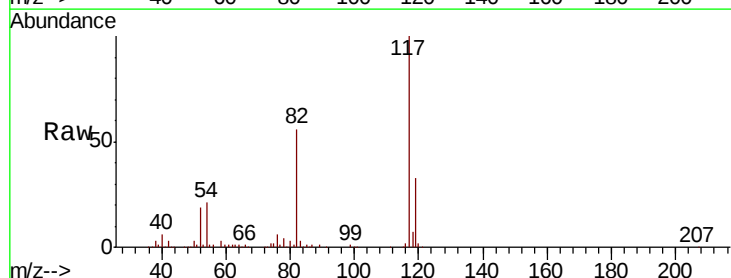
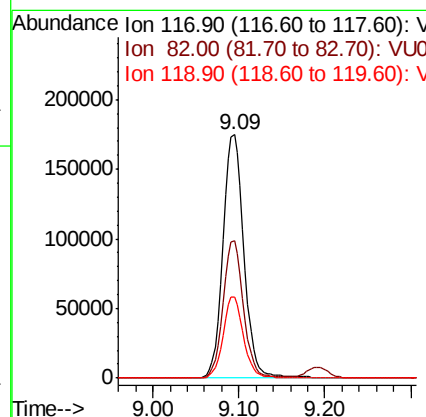
RT: 9.09 min Scan# 2645

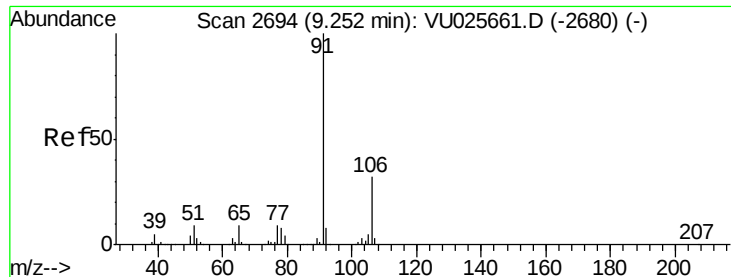
Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

Tgt Ion:	117	Resp:	296882
Ion Ratio	Lower	Upper	
117	100		
82	56.3	46.0	69.0
119	33.1	26.0	39.0





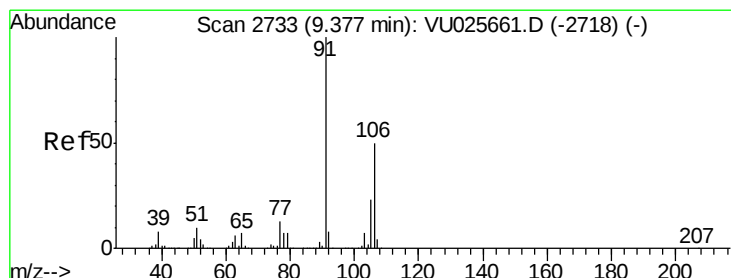
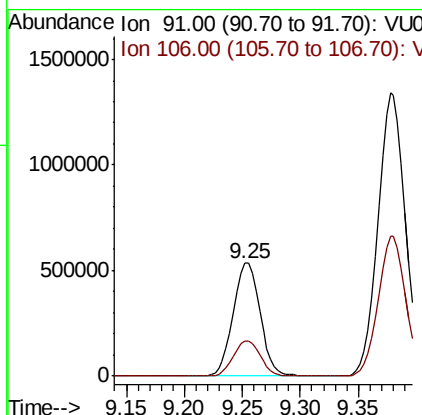
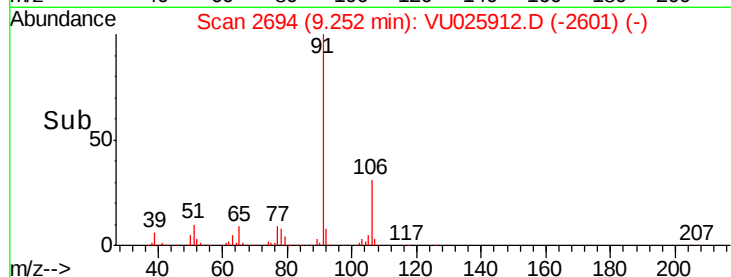
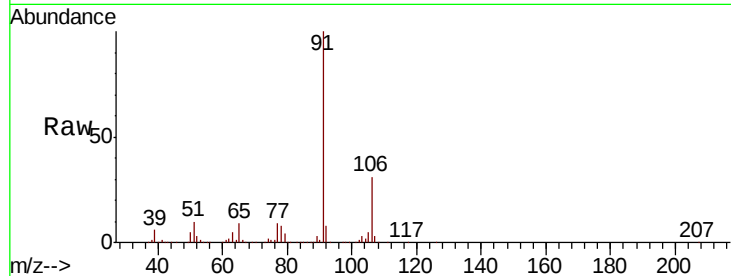
#67
Ethyl Benzene
Concen: 68.324 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025912.D
Acq: 07 Aug 2018 02:17

Instrument :
MSVOA_U
ClientSampleId :
FL-0517

Tgt Ion: 91 Resp: 866270
Ion Ratio Lower Upper
91 100
106 31.1 25.3 37.9

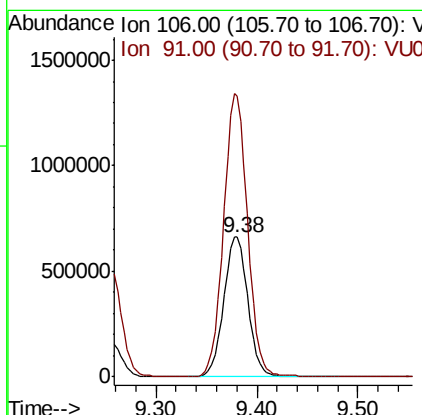
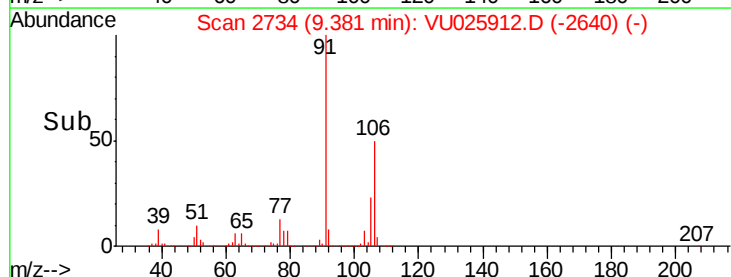
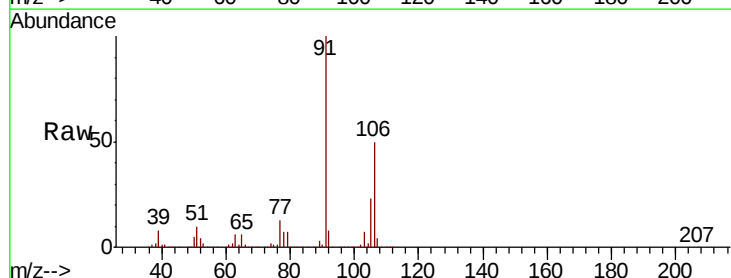
Manual Integrations
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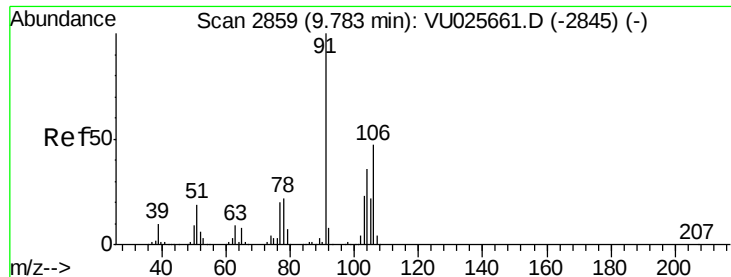
MMDadoda
8/20/2018 5:45:35 PM



#68
m/p-Xylenes
Concen: 227.968 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025912.D
Acq: 07 Aug 2018 02:17

Tgt Ion: 106 Resp: 1109675
Ion Ratio Lower Upper
106 100
91 200.9 162.3 243.5





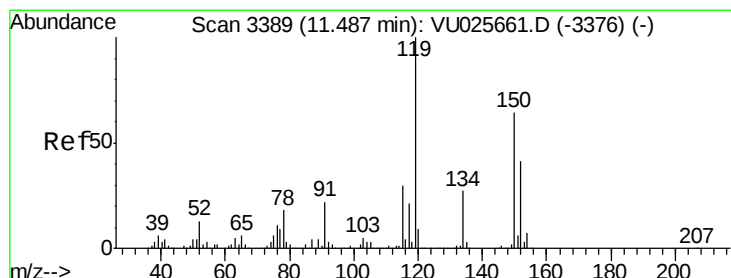
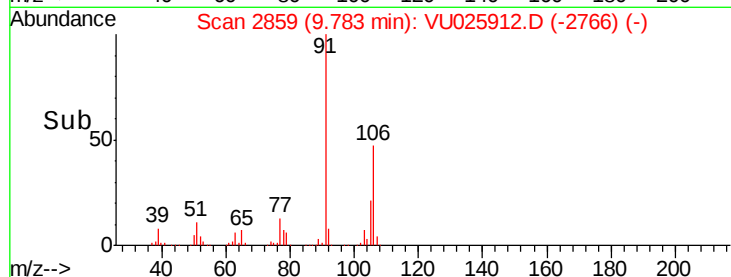
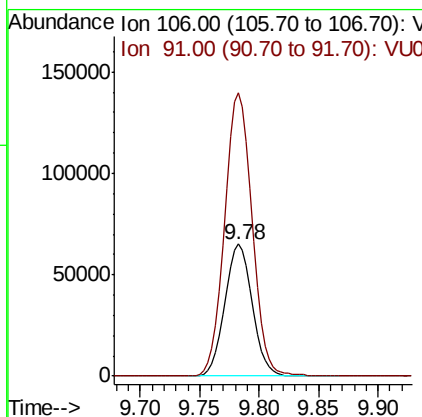
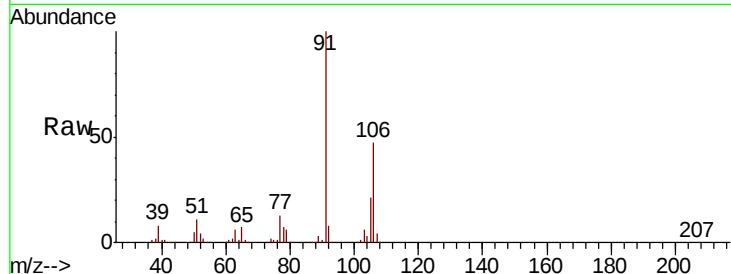
#69
o-Xylene
Concen: 21.906 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025912.D
Acq: 07 Aug 2018 02:17

Instrument :
MSVOA_U
ClientSampleId :
FL-0517

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	104213		
91	214.2	105.3	315.8	

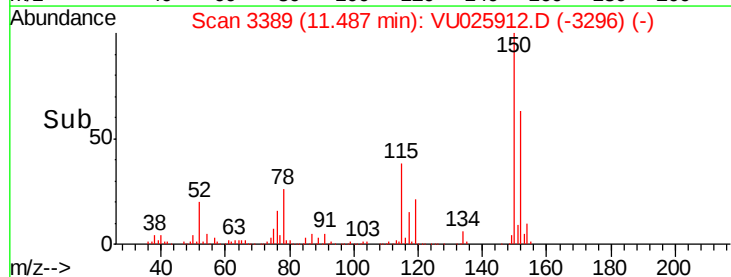
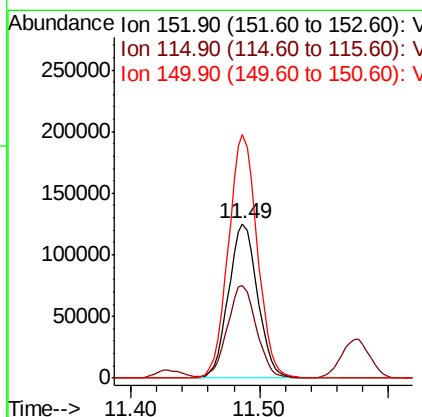
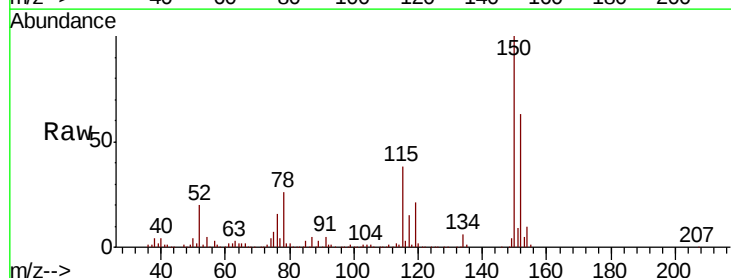
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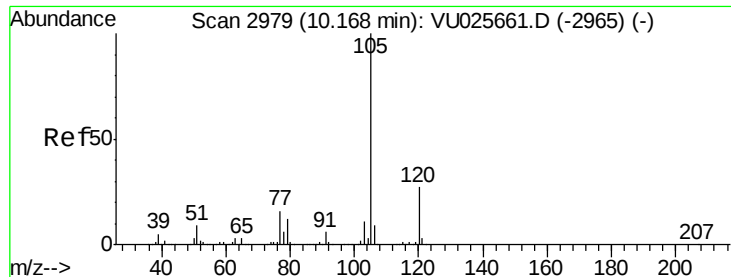
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025912.D
Acq: 07 Aug 2018 02:17

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	195172		
115	60.3	40.1	120.3	
150	156.9	0.0	351.4	





#73

Isopropylbenzene

Concen: 6.843 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025912.D

Acq: 07 Aug 2018 02:17

Instrument :

MSVOA_U

ClientSampleId :

FL-0517

Tgt Ion: 105 Resp: 91151

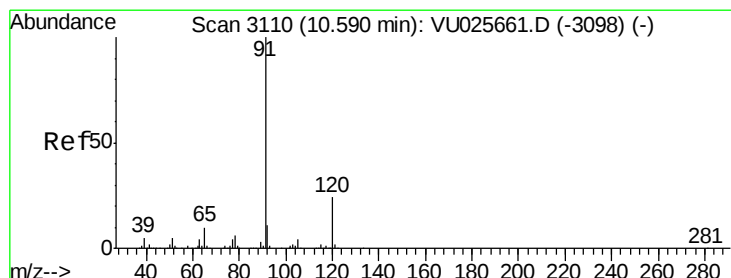
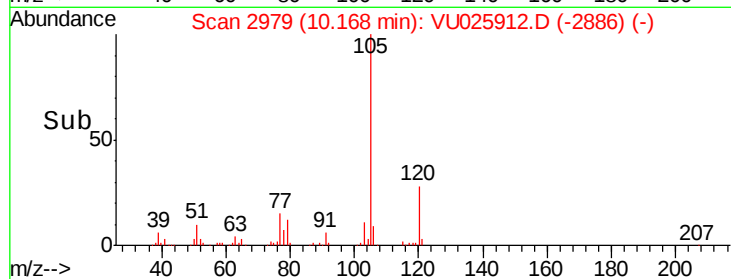
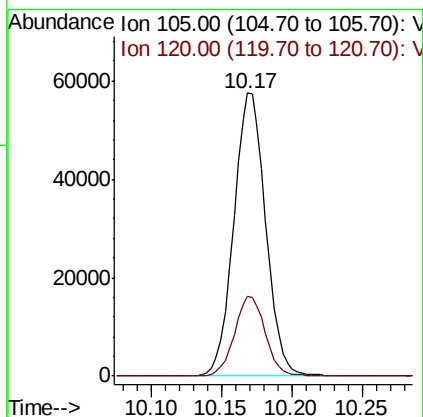
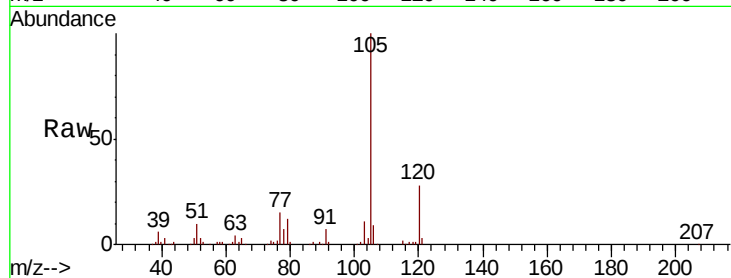
Ion Ratio Lower Upper

105 100

120 27.3 13.5 40.5

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8/20/2018 5:45:35 PM



#78

n-propylbenzene

Concen: 6.535 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025912.D

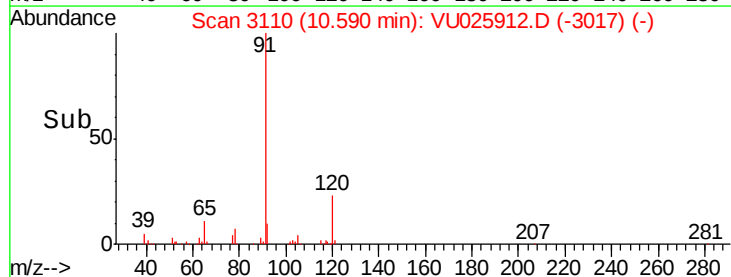
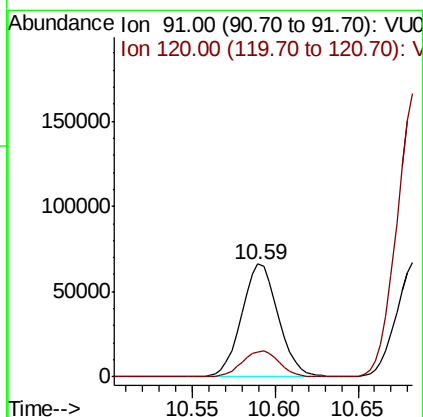
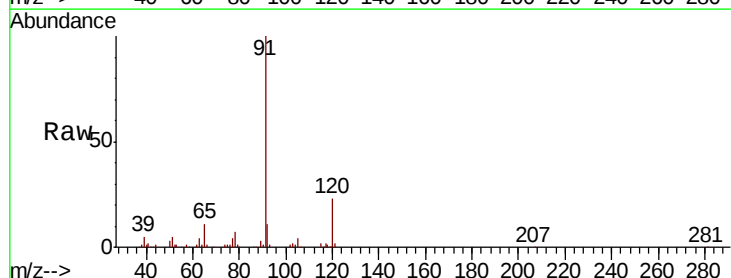
Acq: 07 Aug 2018 02:17

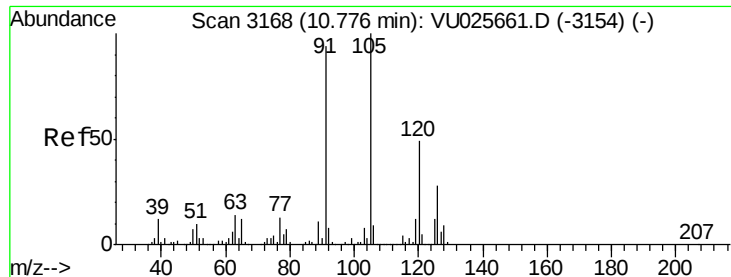
Tgt Ion: 91 Resp: 101599

Ion Ratio Lower Upper

91 100

120 23.4 11.8 35.3





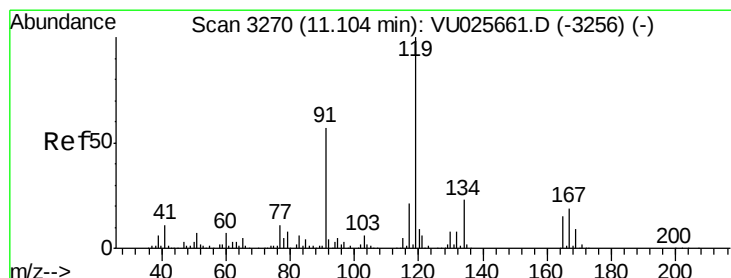
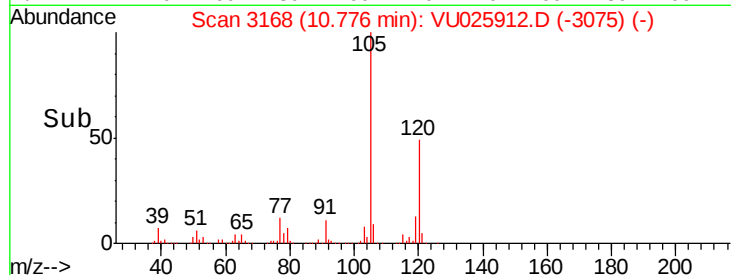
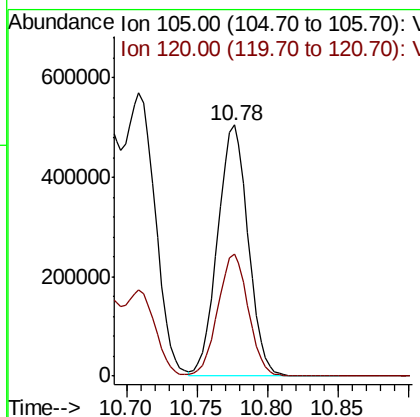
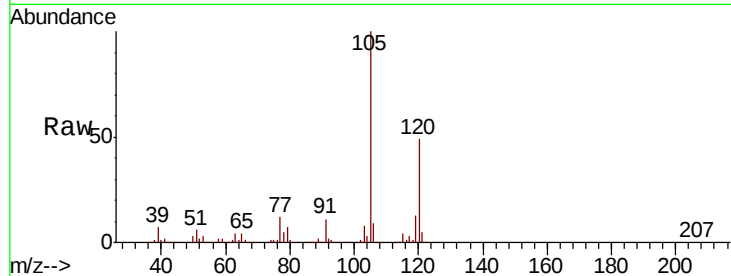
#80
 1,3,5-Trimethylbenzene
 Concen: 67.118 ug/l
 RT: 10.78 min Scan# 3168
 Delta R.T. 0.00 min
 Lab File: VU025912.D
 Acq: 07 Aug 2018 02:17

Instrument :
 MSVOA_U
 ClientSampled :
 FL-0517

Tgt Ion:105 Resp: 759315
 Ion Ratio Lower Upper
 105 100
 120 48.7 24.1 72.2

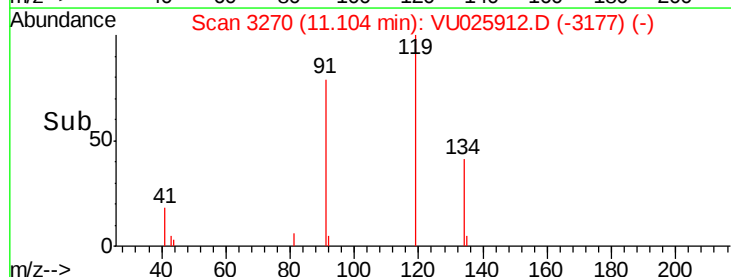
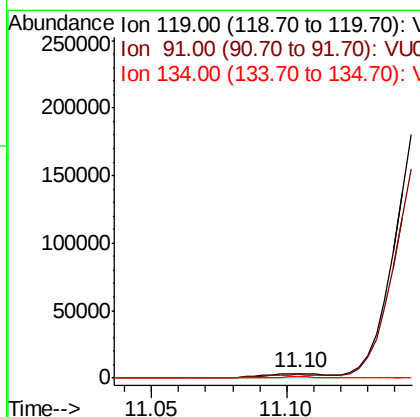
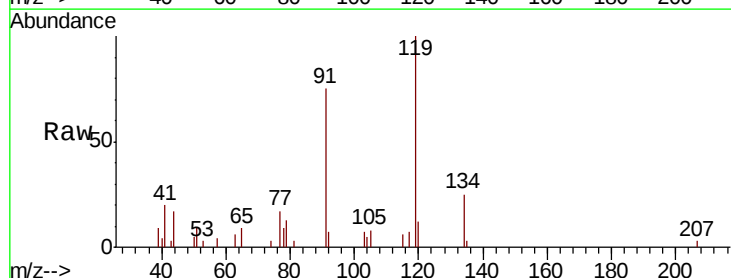
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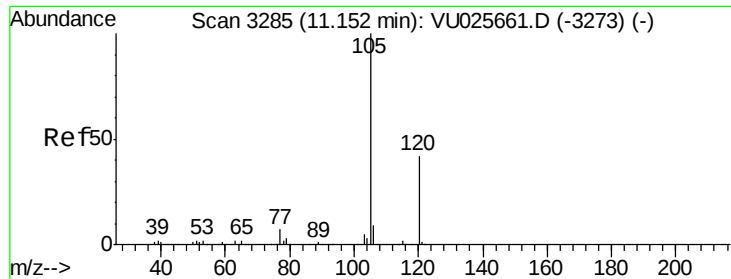
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#83
 tert-Butylbenzene
 Concen: 0.545 ug/l m
 RT: 11.10 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU025912.D
 Acq: 07 Aug 2018 02:17

Tgt Ion:119 Resp: 6129
 Ion Ratio Lower Upper
 119 100
 91 0.0 29.7 89.1#
 134 0.0 11.5 34.5#





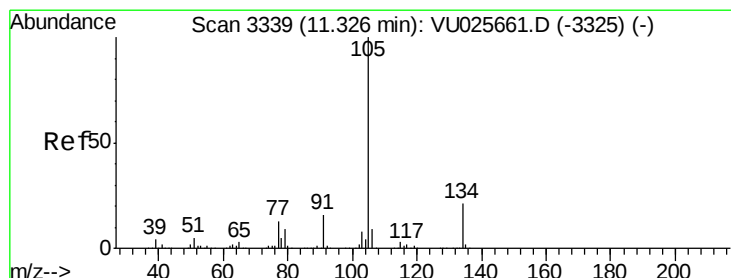
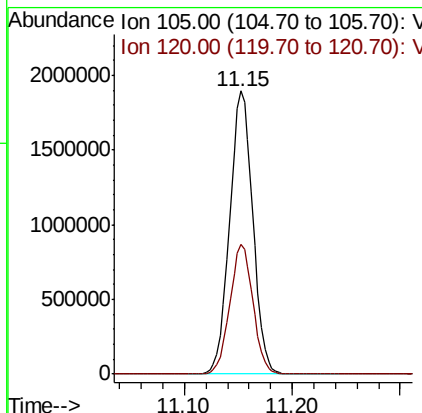
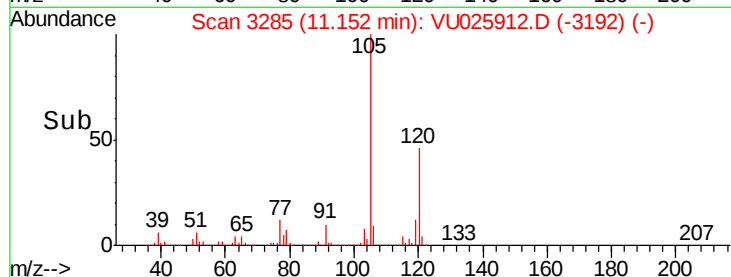
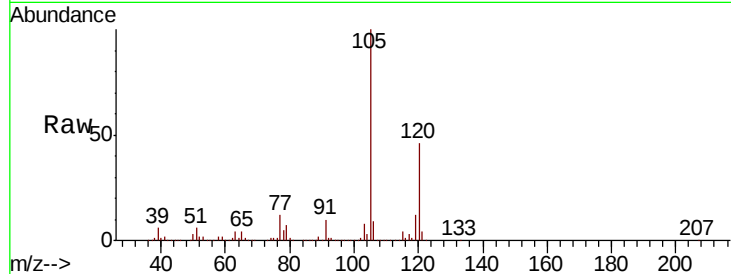
#84
 1,2,4-Trimethylbenzene
 Concen: 246.797 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. 0.00 min
 Lab File: VU025912.D
 Acq: 07 Aug 2018 02:17

Instrument :
 MSVOA_U
 ClientSampled :
 FL-0517

Tgt Ion:105 Resp: 2829337
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.3 66.8

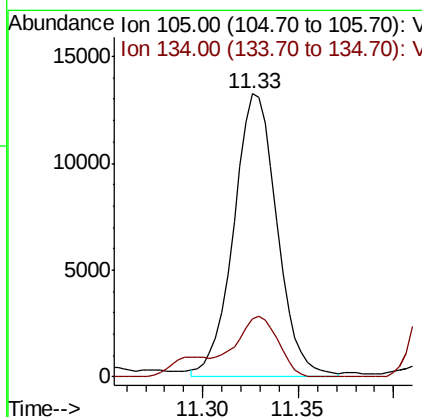
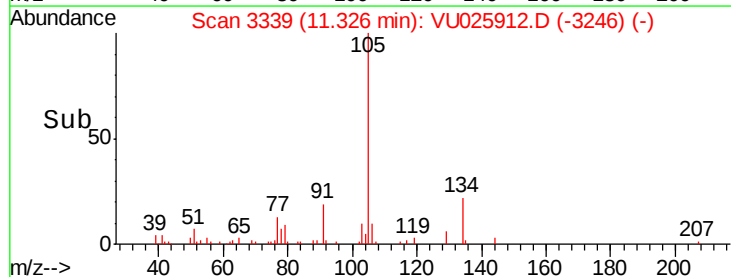
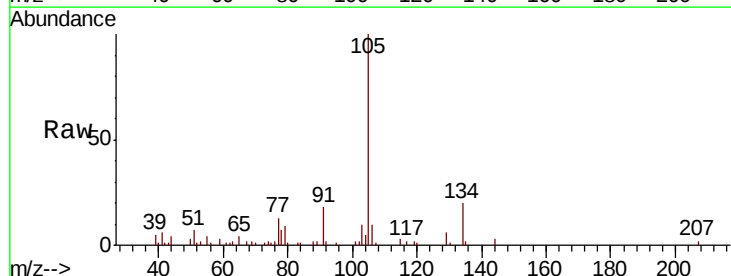
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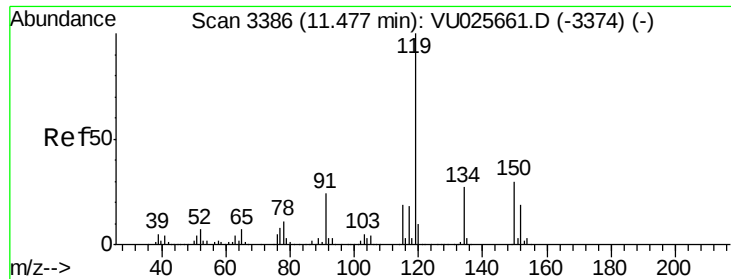
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#85
 sec-Butylbenzene
 Concen: 1.531 ug/l m
 RT: 11.33 min Scan# 3339
 Delta R.T. 0.00 min
 Lab File: VU025912.D
 Acq: 07 Aug 2018 02:17

Tgt Ion:105 Resp: 21014
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.8#





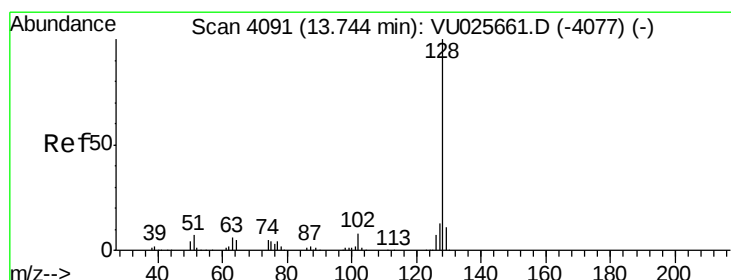
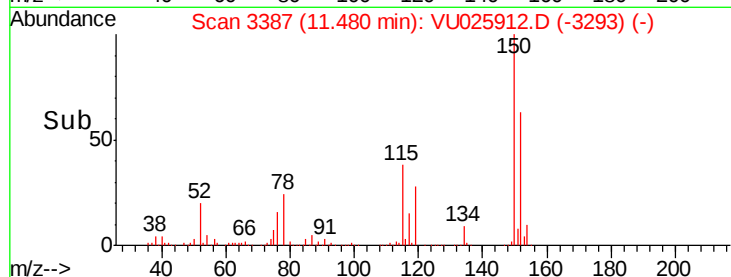
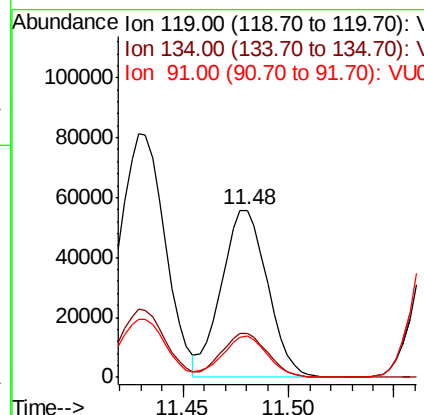
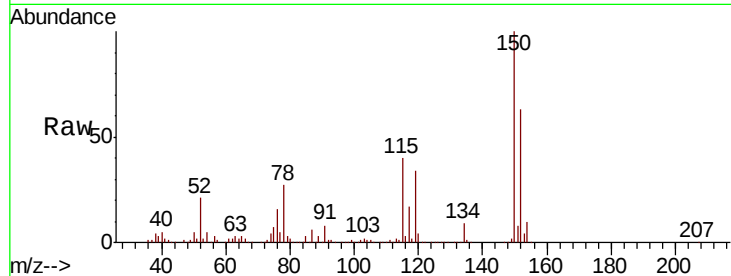
#86
p-Isopropyltoluene
Concen: 6.888 ug/l
RT: 11.48 min Scan# 3387
Delta R.T. 0.00 min
Lab File: VU025912.D
Acq: 07 Aug 2018 02:17

Instrument :
MSVOA_U
ClientSampleId :
FL-0517

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.5
91	24.2	12.0	36.1

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8/20/2018 5:45:35 PM



#95
Naphthalene
Concen: 31.322 ug/l
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU025912.D
Acq: 07 Aug 2018 02:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	11.4	8.3	12.5

