

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025710.D
 Acq On : 28 Jul 2018 08:05
 Operator : MD/SY
 Sample : J4208-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0525

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:50:36 PM

Quant Time: Jul 30 09:16:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	185471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	287714	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	286865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	180223	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	139080	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
35) Dibromofluoromethane	4.89	113	116893	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
50) Toluene-d8	7.57	98	440565	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
62) 4-Bromofluorobenzene	10.31	95	169177	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
Target Compounds						
31) Cyclohexane	5.00	56	153816	41.54	ug/l	95
39) Methylcyclohexane	6.42	83	502386	130.40	ug/l	98
67) Ethyl Benzene	9.25	91	383424	31.30	ug/l	100
68) m/p-Xylenes	9.38	106	182277	38.75	ug/l	100
69) o-Xylene	9.79	106	1941	0.42	ug/l	49
73) Isopropylbenzene	10.17	105	240473	19.55	ug/l	98
78) n-propylbenzene	10.59	91	340126	23.69	ug/l	99
80) 1,3,5-Trimethylbenzene	10.78	105	10982m	1.05	ug/l	
83) tert-Butylbenzene	11.10	119	4379	0.42	ug/l #	42
84) 1,2,4-Trimethylbenzene	11.15	105	1161127	109.68	ug/l	99
85) sec-Butylbenzene	11.33	105	71493	5.64	ug/l	99
86) p-Isopropyltoluene	11.48	119	69264	6.10	ug/l	99
89) n-Butylbenzene	11.89	91	29442m	2.81	ug/l	
95) Naphthalene	13.74	128	148559	12.07	ug/l	98

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

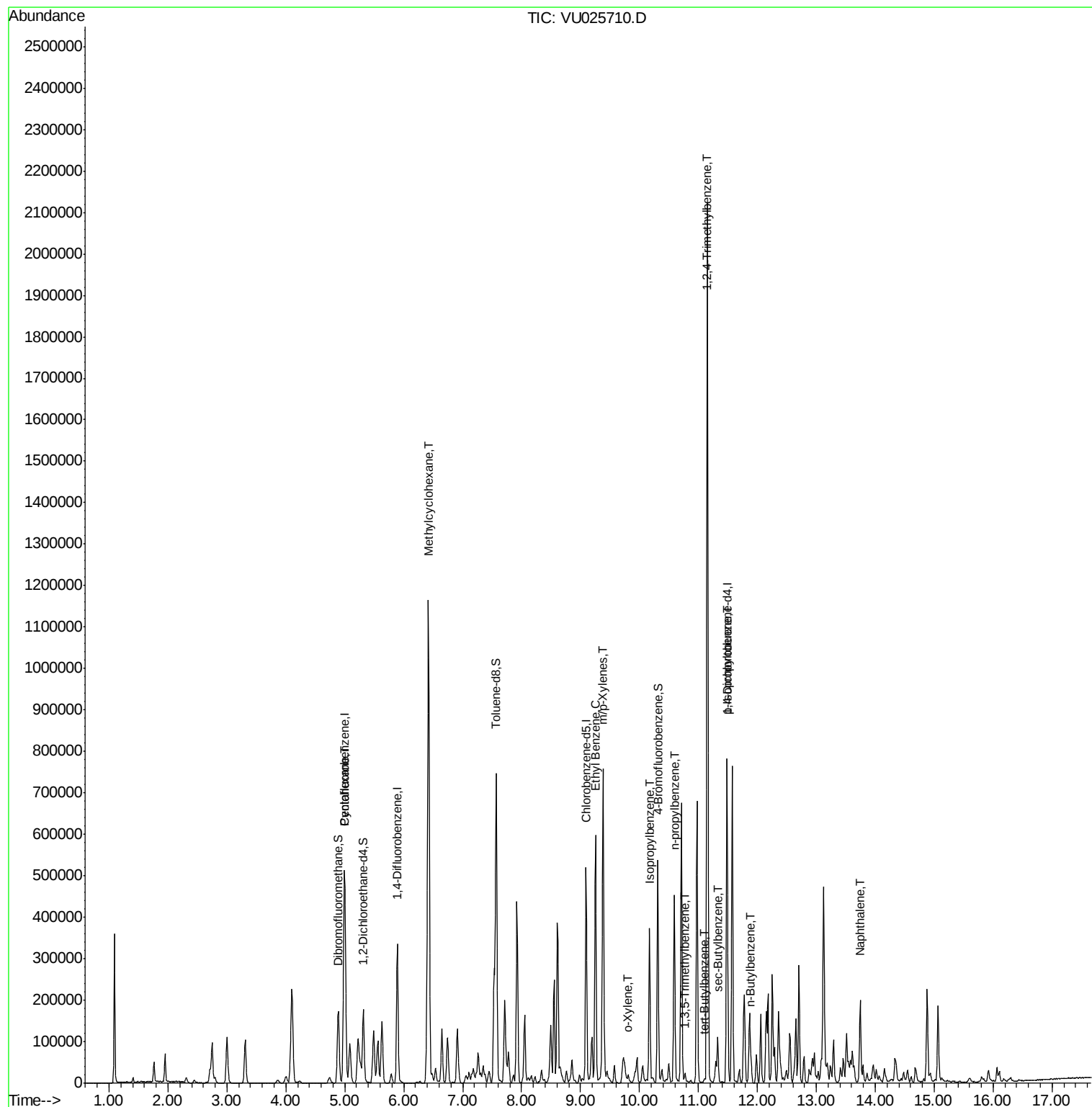
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072718\
Data File : VU025710.D
Acq On : 28 Jul 2018 08:05
Operator : MD/SY
Sample : J4208-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 56 Sample Multiplier: 1

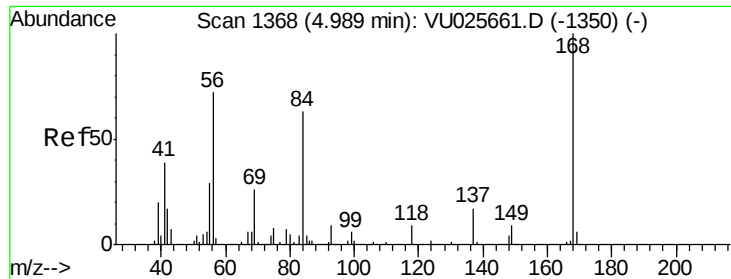
Instrument :
MSVOA_U
ClientSampleId :
FL-0525

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Quant Time: Jul 30 09:16:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 27 13:11:52 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

Instrument :

MSVOA_U

ClientSampled :

FL-0525

Tot Ion:168 Resp: 185471

Ion Ratio Lower Upper

168 100

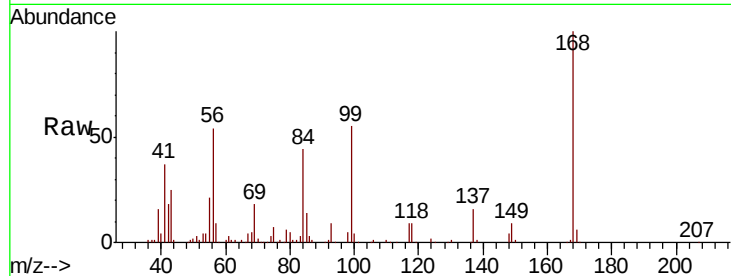
99 54.6 42.8 64.2

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Abundance Ion 167.90 (167.60 to 168.60): VU025710.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025710.D (-1275) (-)

4.99

80000

60000

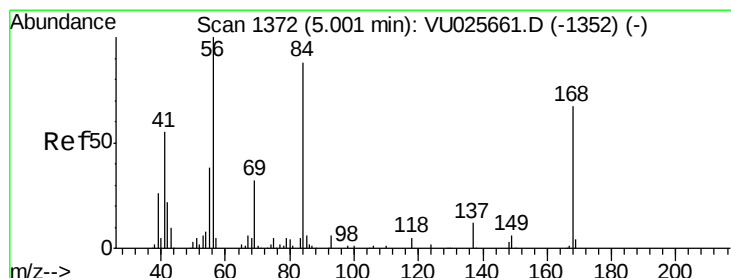
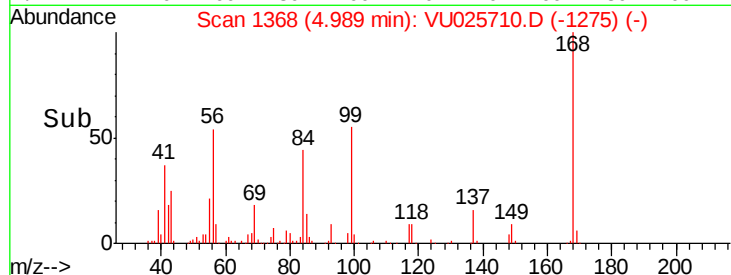
40000

20000

0

Time-->

4.90 5.00 5.10



#31

Cyclohexane

Concen: 41.54 ug/l

RT: 5.00 min Scan# 1372

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

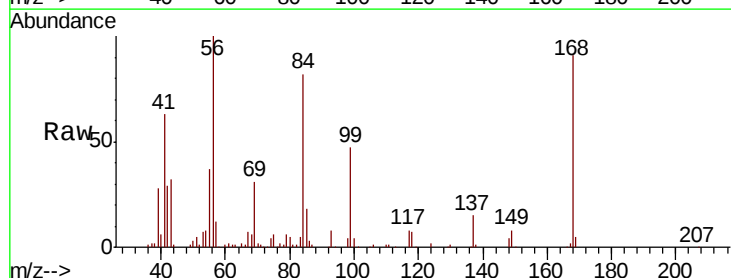
Tgt Ion: 56 Resp: 153816

Ion Ratio Lower Upper

56 100

69 31.3 26.8 40.2

84 81.8 69.7 104.5



Abundance Ion 56.00 (55.70 to 56.70): VU025710.D (-1279) (-)

Ion 69.00 (68.70 to 69.70): VU025710.D (-1279) (-)

Ion 84.00 (83.70 to 84.70): VU025710.D (-1279) (-)

5.00

80000

60000

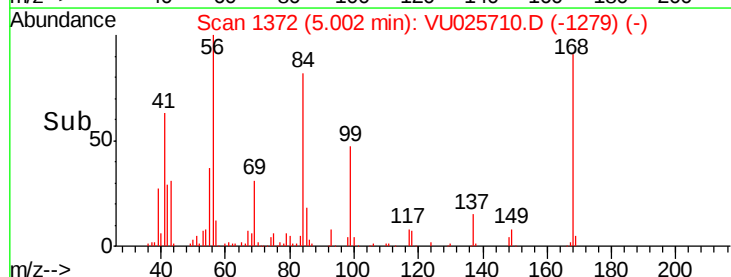
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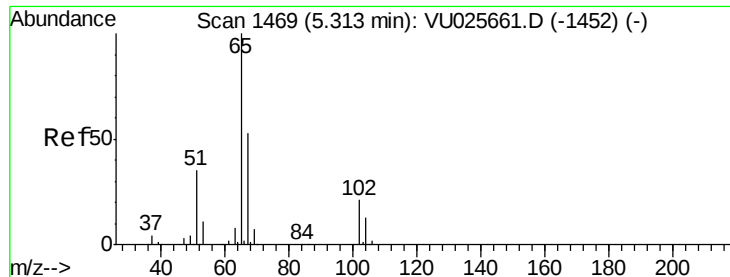
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Time-->

4.90 4.95 5.00 5.05





#33

1,2-Dichloroethane-d4

Concen: 48.13 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

Instrument :

MSVOA_U

ClientSampleId :

FL-0525

Tot Ion: 65 Resp: 139080

Ion Ratio Lower Upper

65 100

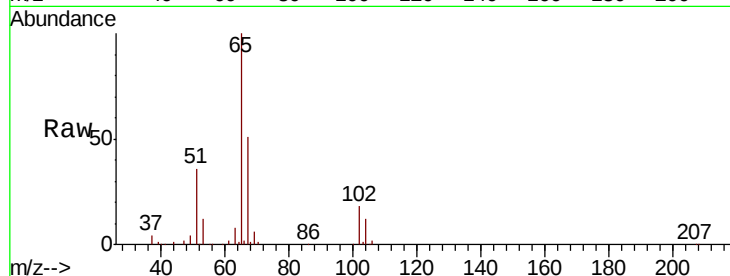
67 51.4 0.0 103.6

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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

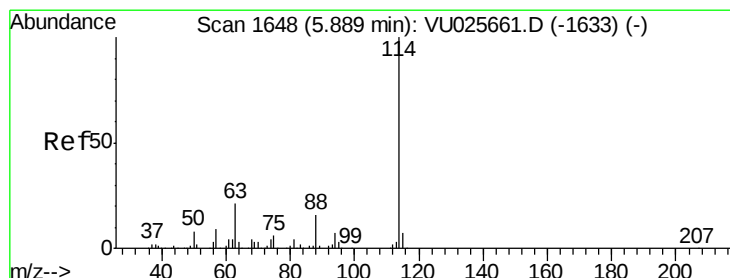
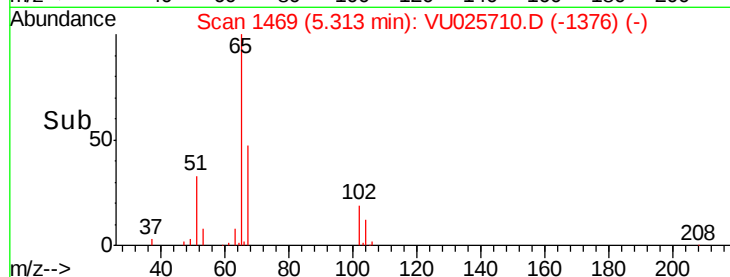
40000

20000

0

Time-->

5.20 5.25 5.30 5.35 5.40



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

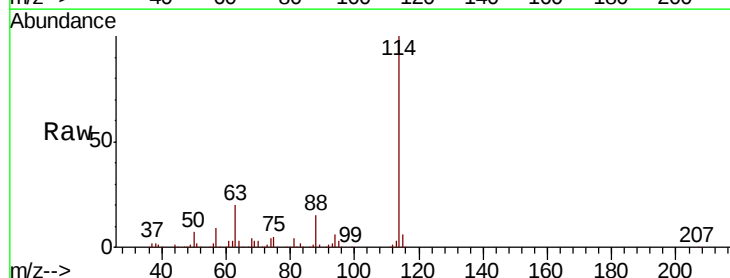
Tgt Ion: 114 Resp: 287714

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.6

88 15.4 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) (-)

200000

150000

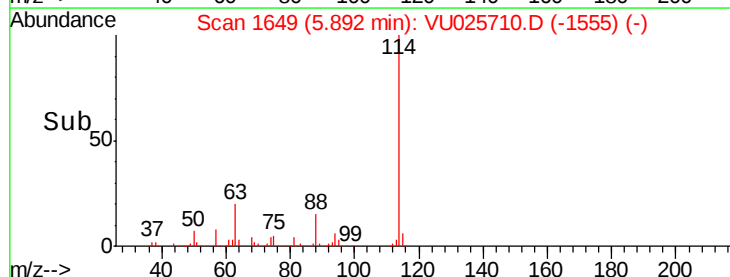
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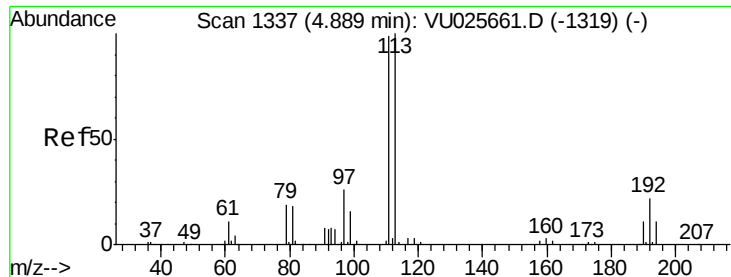
50000

0

Time-->

5.80 5.90 6.00





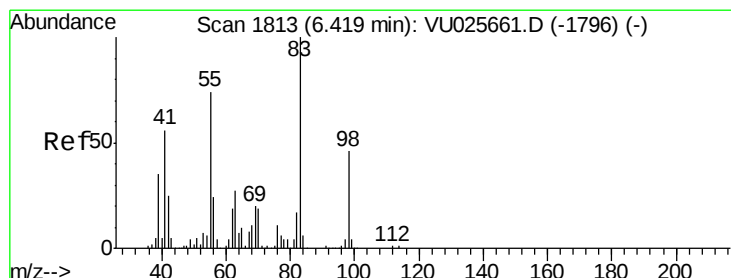
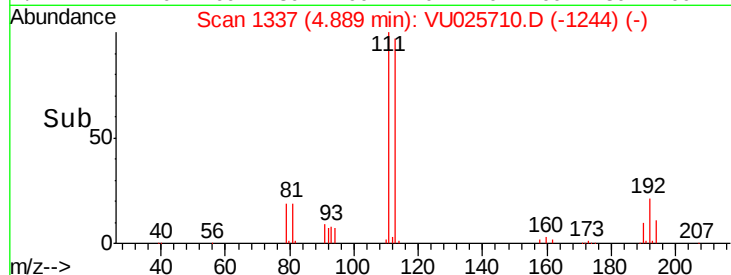
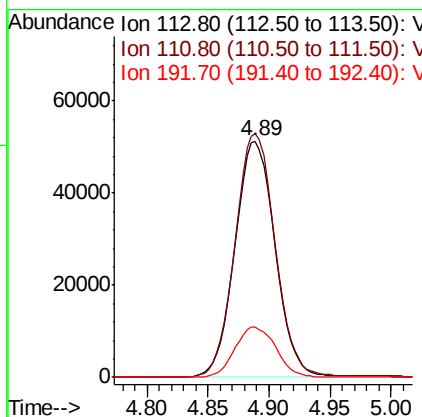
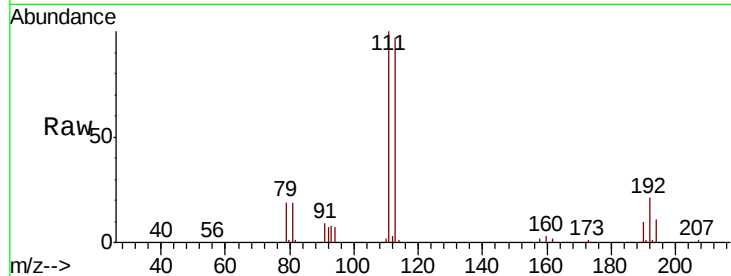
#35
 Dibromofluoromethane
 Concen: 46.71 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025710.D
 Acq: 28 Jul 2018 08:05

Instrument :
 MSVOA_U
 ClientSampleId :
 FL-0525

Tot Ion	Ratio	Resp	Lower	Upper
113	100	116893		
111	103.3	81.7	122.5	
192	21.8	17.1	25.7	

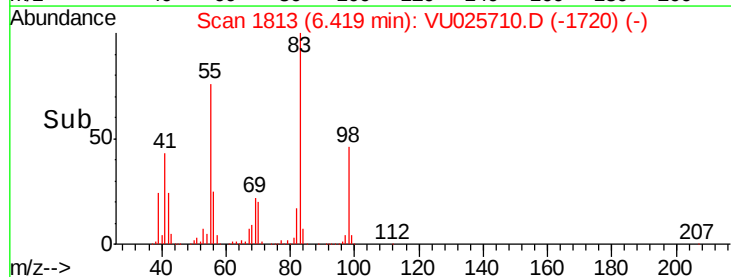
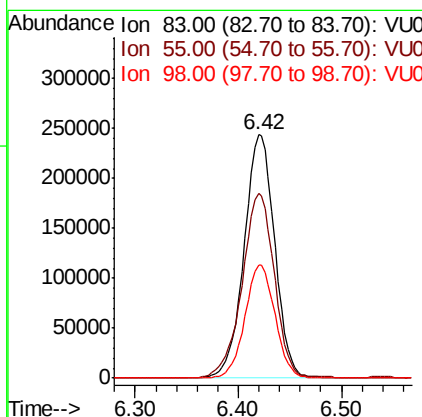
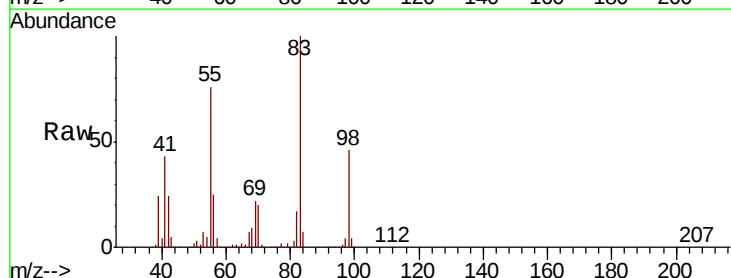
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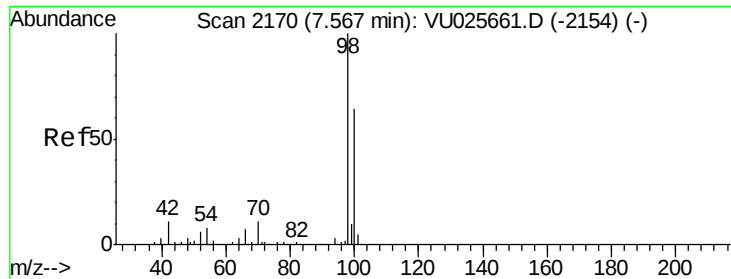
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#39
 Methylcyclohexane
 Concen: 130.40 ug/l
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU025710.D
 Acq: 28 Jul 2018 08:05

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	502386		
55	76.1	60.0	90.0	
98	46.4	36.1	54.1	





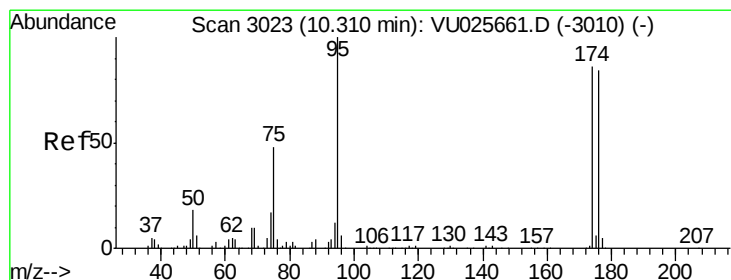
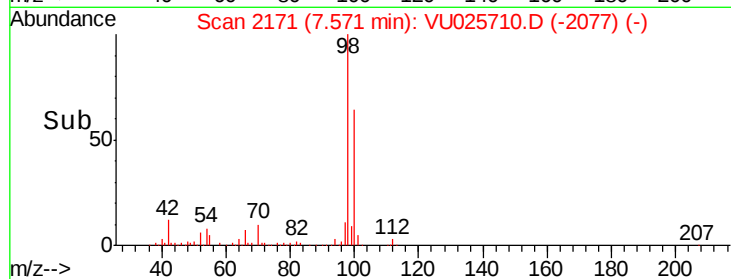
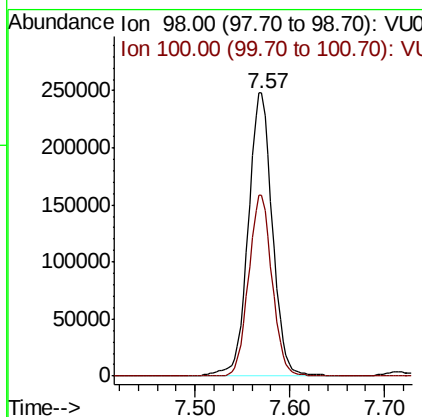
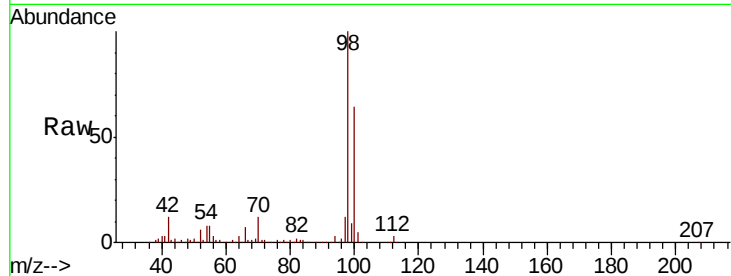
#50
Toluene-d8
Concen: 50.31 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Instrument :
MSVOA_U
ClientSampleId :
FL-0525

Tot Ion: 98 Resp: 440565
Ion Ratio Lower Upper
98 100
100 61.8 51.1 76.7

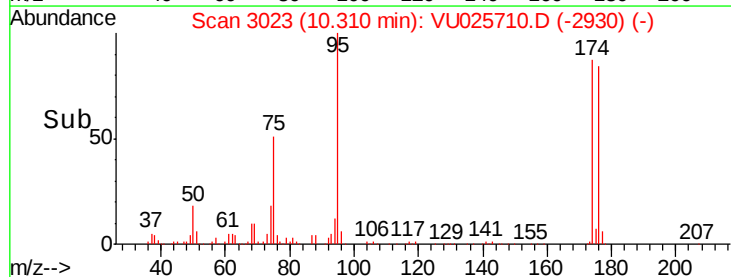
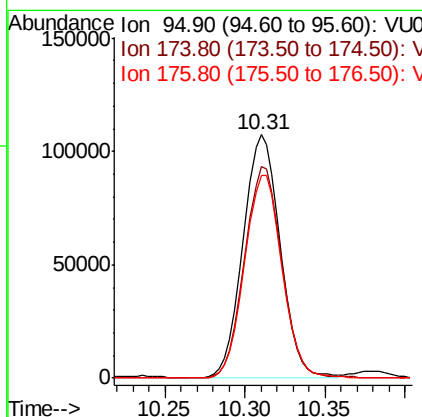
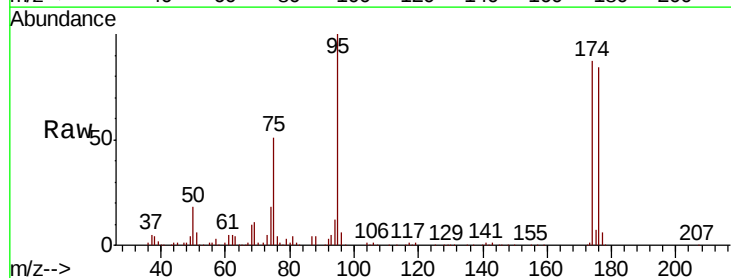
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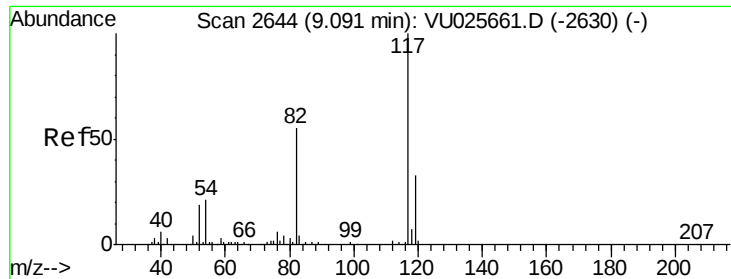
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#62
4-Bromofluorobenzene
Concen: 49.77 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Tgt Ion: 95 Resp: 169177
Ion Ratio Lower Upper
95 100
174 87.8 0.0 172.2
176 84.9 0.0 162.6





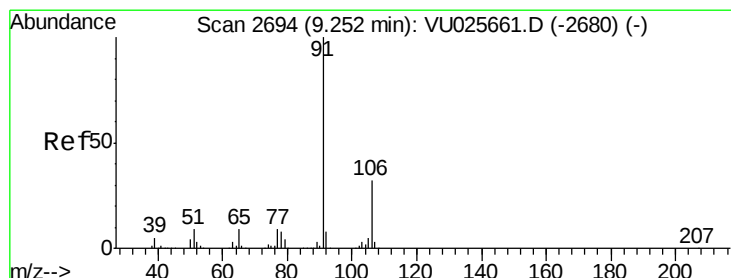
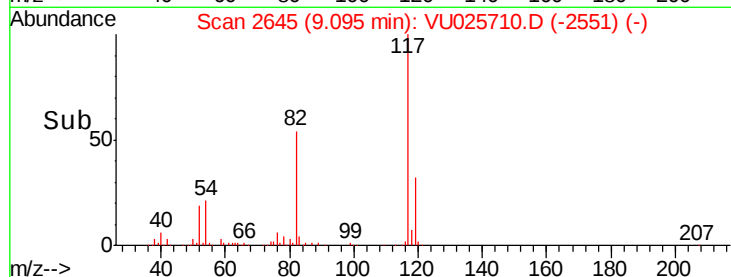
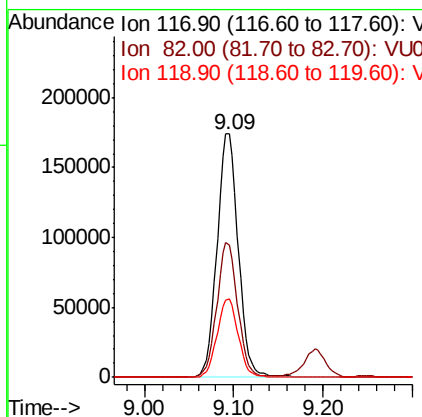
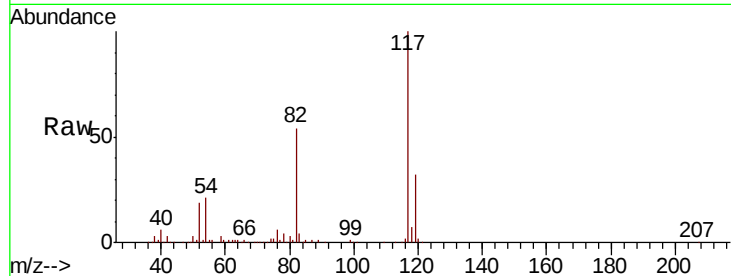
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Instrument :
MSVOA_U
ClientSampleId :
FL-0525

Tot Ion	Ratio	Resp	Lower	Upper
117	100	286865		
82	53.8	46.0	69.0	
119	32.2	26.0	39.0	

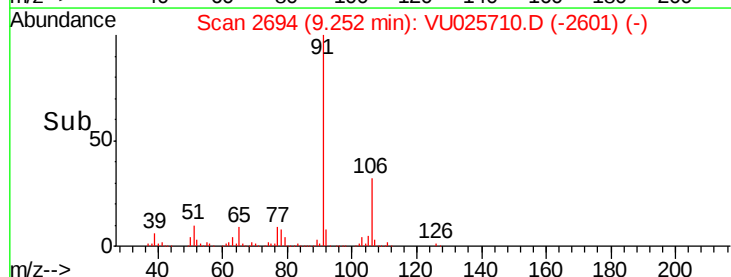
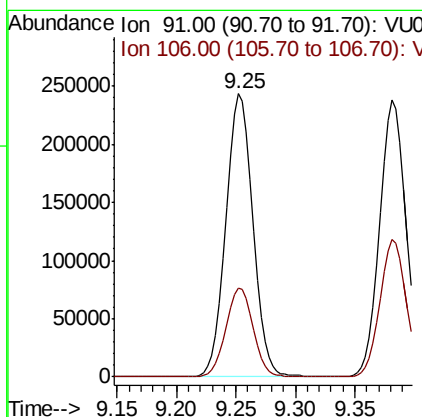
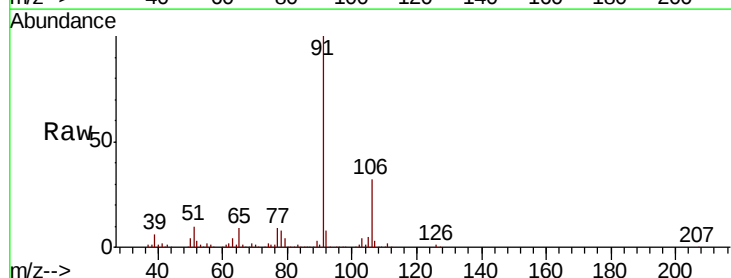
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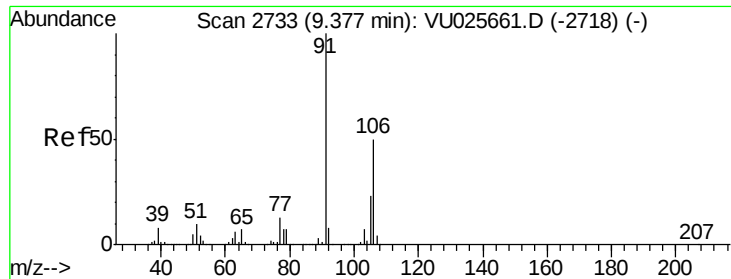
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7/31/2018 3:50:36 PM



#67
Ethyl Benzene
Concen: 31.30 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	383424		
106	31.6	25.3	37.9	





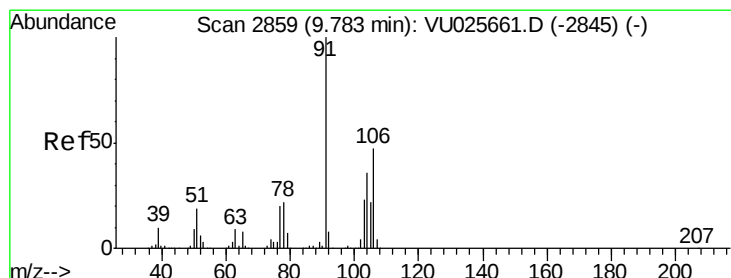
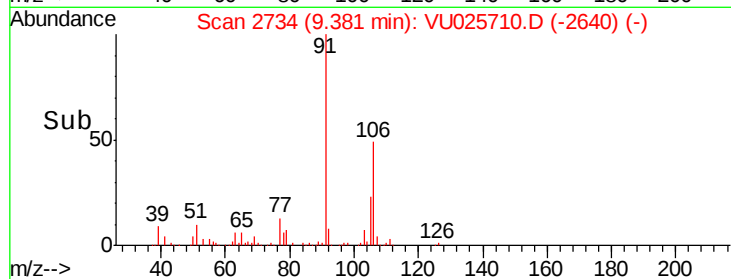
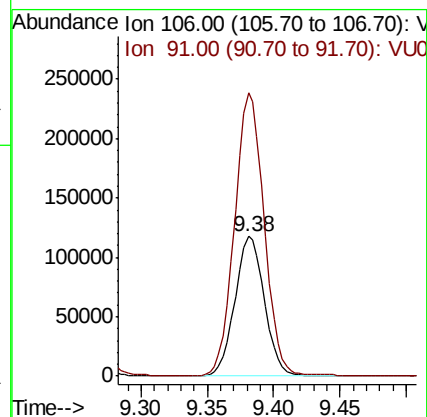
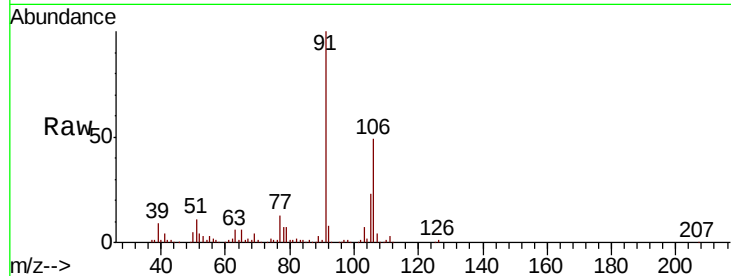
#68
m/p-Xylenes
Concen: 38.75 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Instrument :
MSVOA_U
ClientSampled :
FL-0525

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		182277		
91	202.4	162.3	243.5		

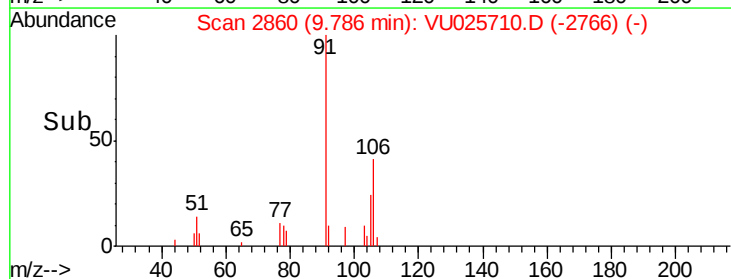
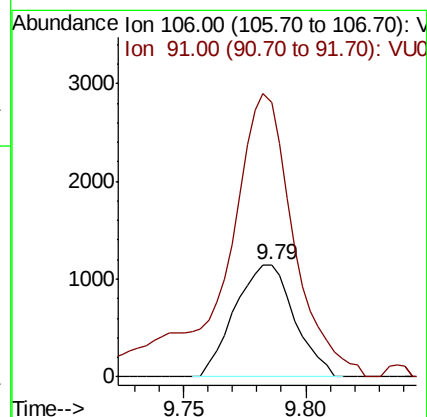
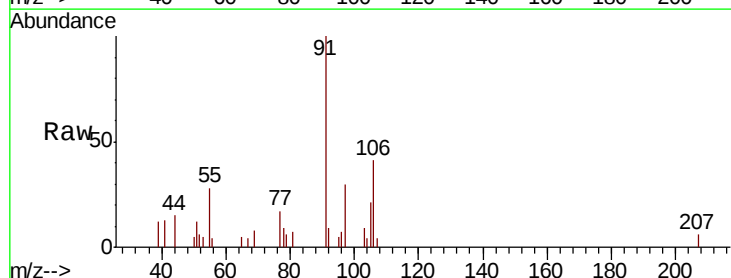
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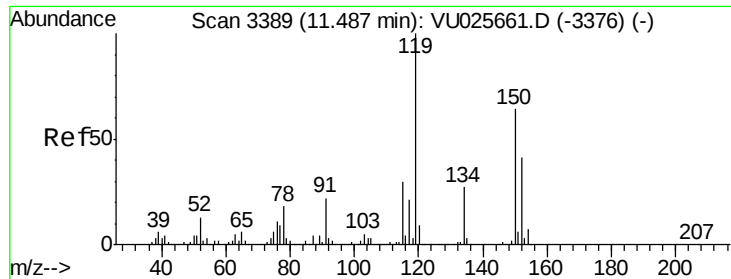
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7/31/2018 3:50:36 PM



#69
o-Xylene
Concen: 0.42 ug/l
RT: 9.79 min Scan# 2860
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		1941		
91	291.0	105.3	315.8		





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

Instrument :

MSVOA_U

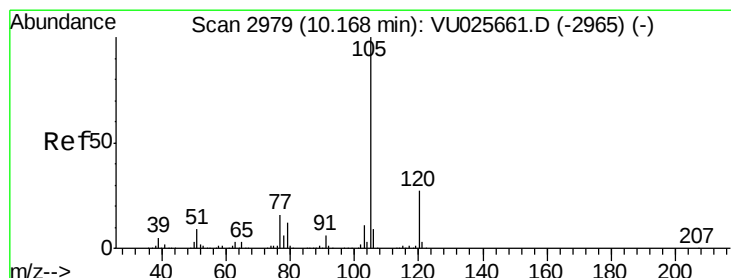
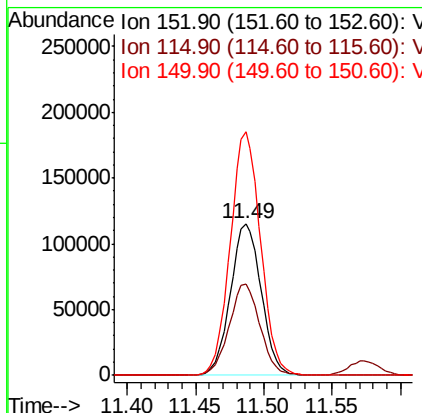
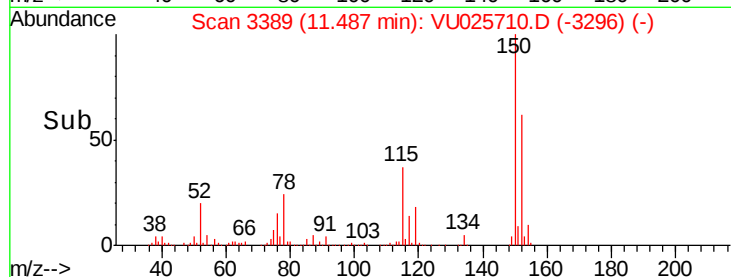
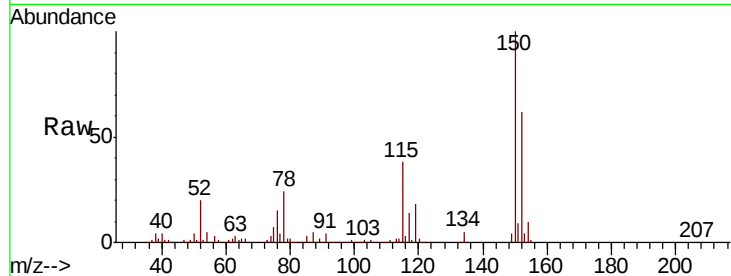
ClientSampled :

FL-0525

Tot Ion:	152	Resp:	180223
Ion Ratio	Lower	Upper	
152	100		
115	60.7	40.1	120.3
150	158.2	0.0	351.4

Manual Integrations
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7/31/2018 3:50:36 PM



#73

Isopropylbenzene

Concen: 19.55 ug/l

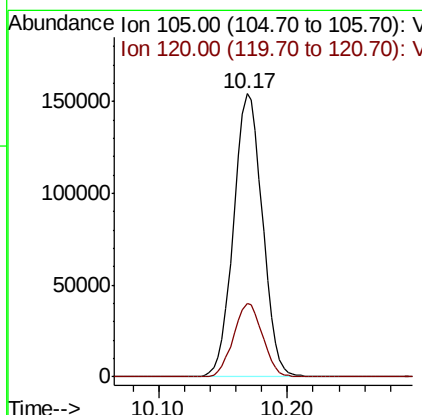
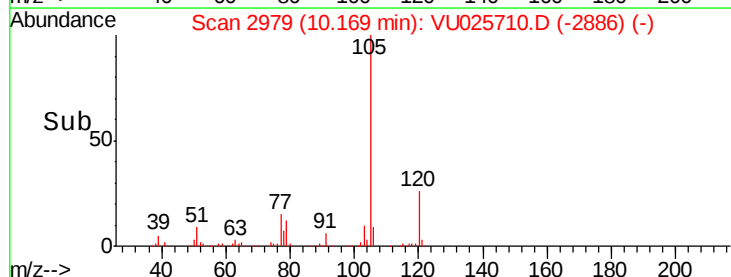
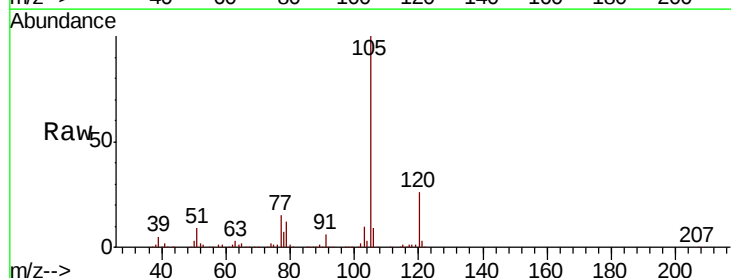
RT: 10.17 min Scan# 2979

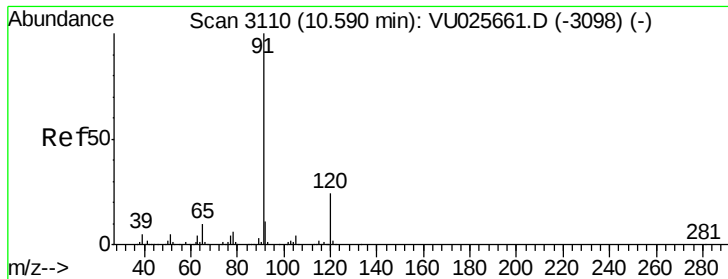
Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

Tgt Ion:	105	Resp:	240473
Ion Ratio	Lower	Upper	
105	100		
120	26.0	13.5	40.5





#78

n-propylbenzene

Concen: 23.69 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

Instrument :

MSVOA_U

ClientSampled :

FL-0525

Tot Ion: 91 Resp: 340126

Ion Ratio Lower Upper

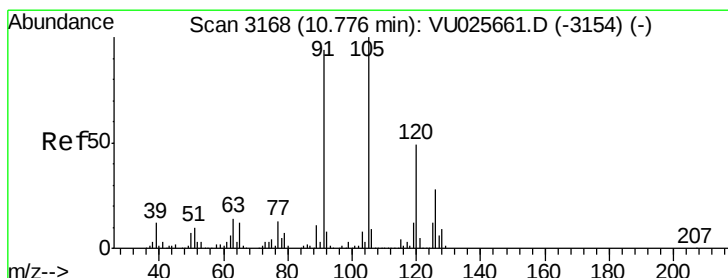
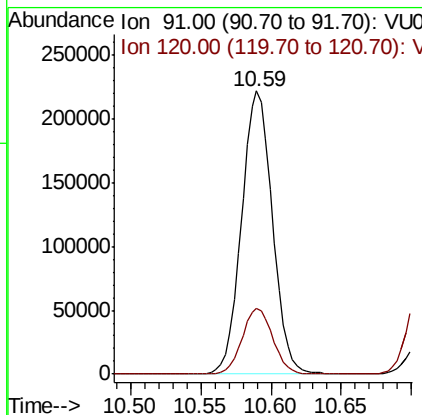
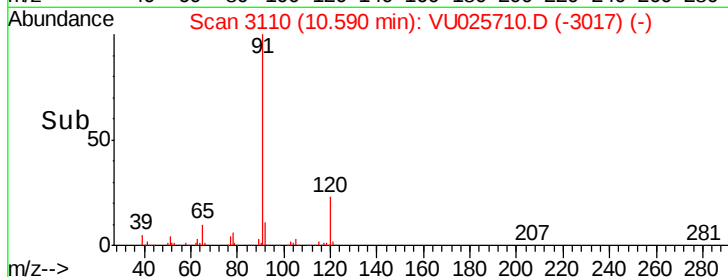
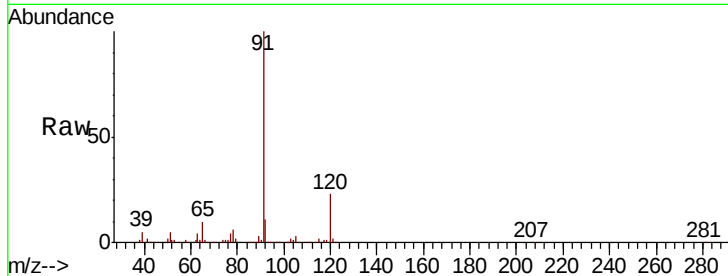
91 100

120 23.2 11.8 35.3

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#80

1,3,5-Trimethylbenzene

Concen: 1.05 ug/l m

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025710.D

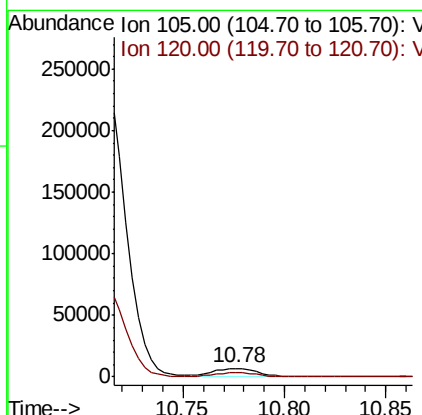
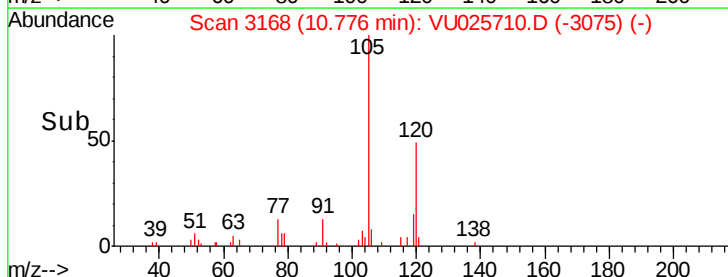
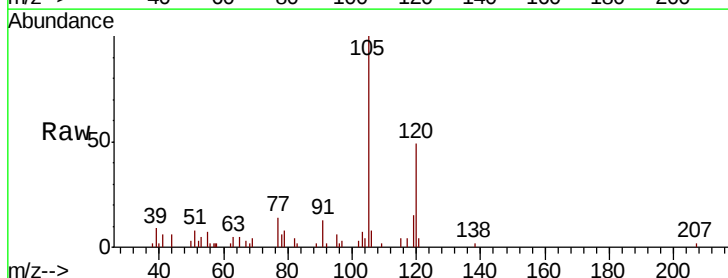
Acq: 28 Jul 2018 08:05

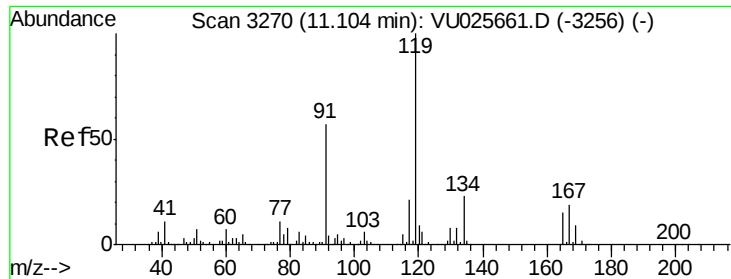
Tgt Ion: 105 Resp: 10982

Ion Ratio Lower Upper

105 100

120 1116.1 24.1 72.2#





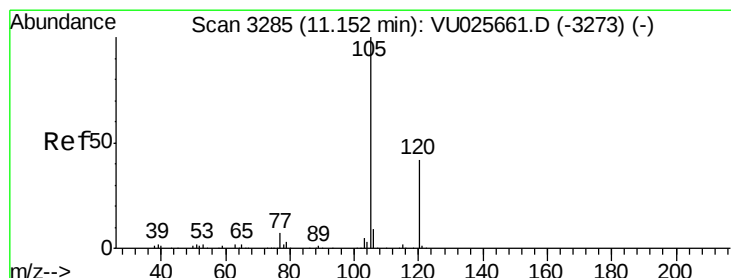
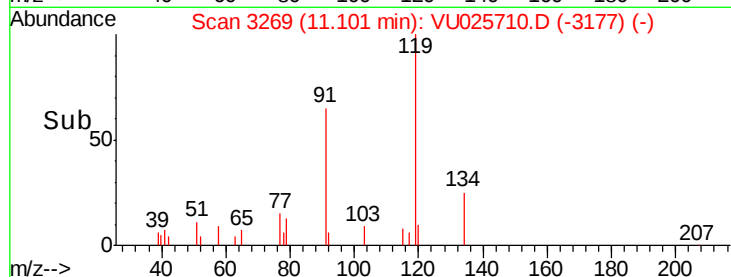
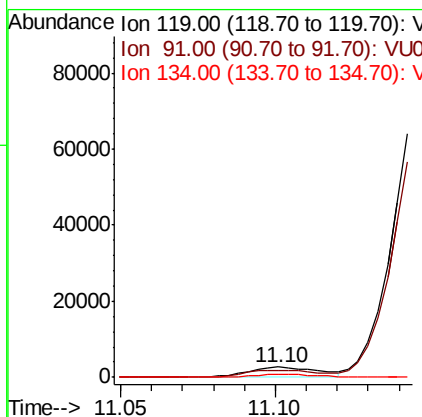
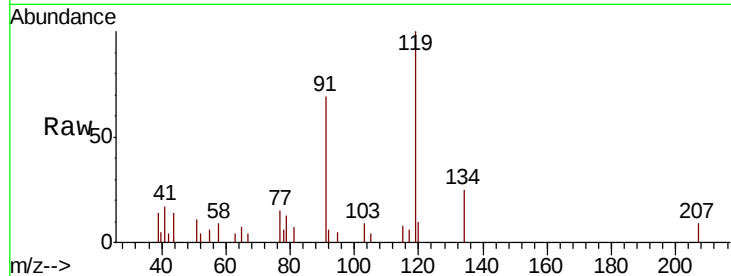
#83
tert-Butylbenzene
Concen: 0.42 ug/l
RT: 11.10 min Scan# 3269
Delta R.T. -0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Instrument :
MSVOA_U
ClientSampleId :
FL-0525

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	29.7	89.1#
134	25.1	11.5	34.5

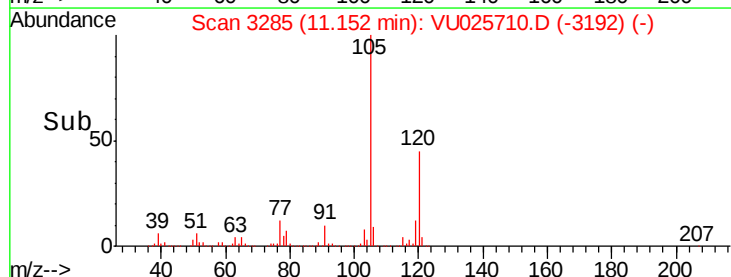
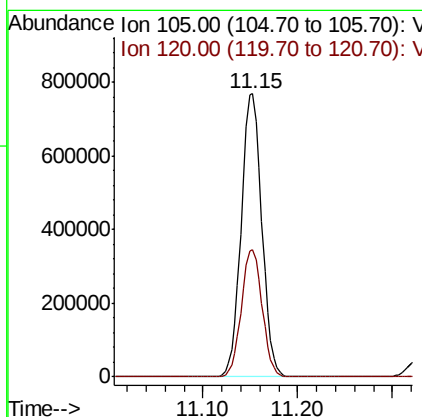
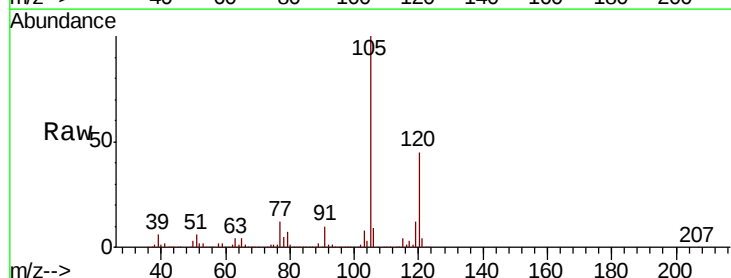
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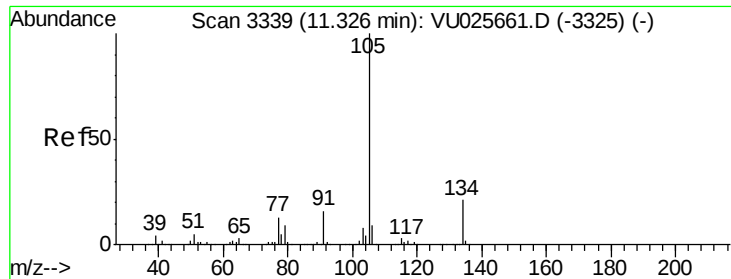
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#84
1,2,4-Trimethylbenzene
Concen: 109.68 ug/l
RT: 11.15 min Scan# 3285
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.3	66.8





#85

sec-Butylbenzene

Concen: 5.64 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

Instrument :

MSVOA_U

ClientSampled :

FL-0525

Tot Ion:105 Resp: 71493

Ion Ratio Lower Upper

105 100

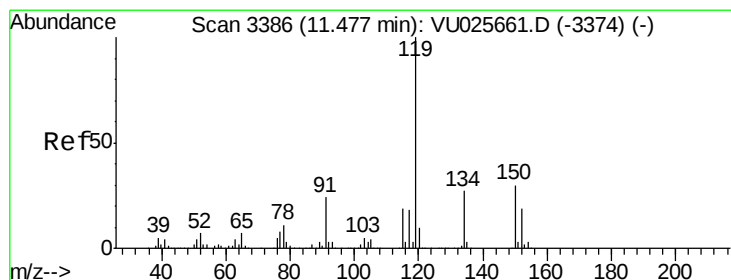
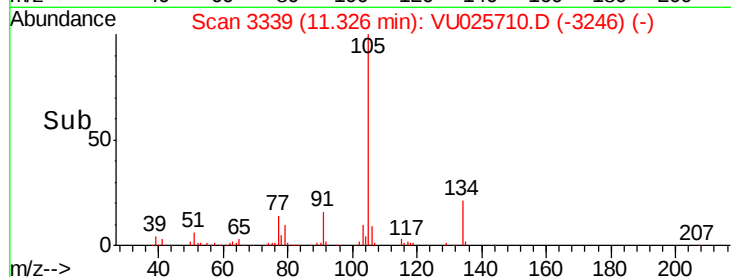
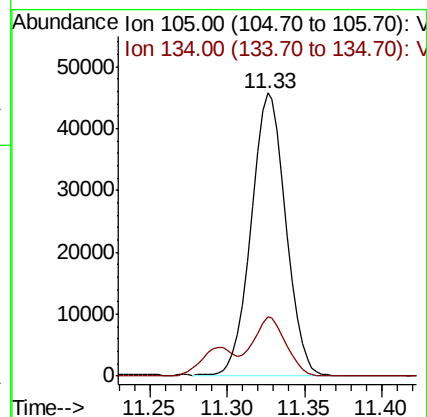
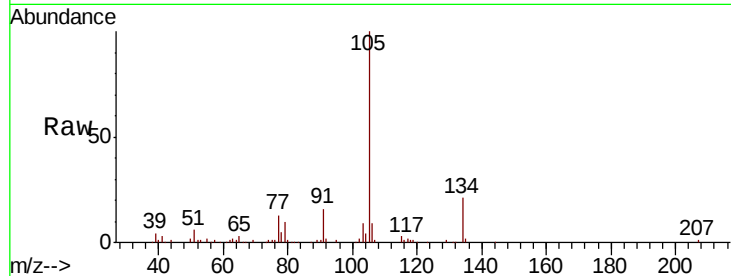
134 20.2 10.3 30.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 6.10 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU025710.D

Acq: 28 Jul 2018 08:05

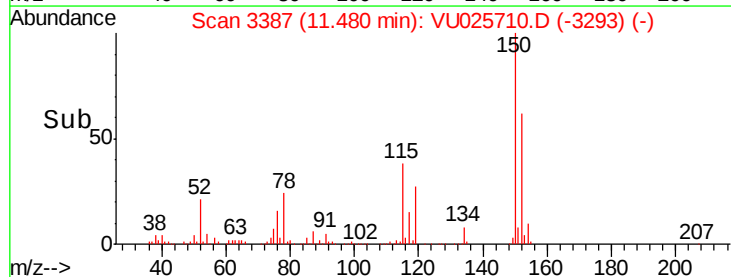
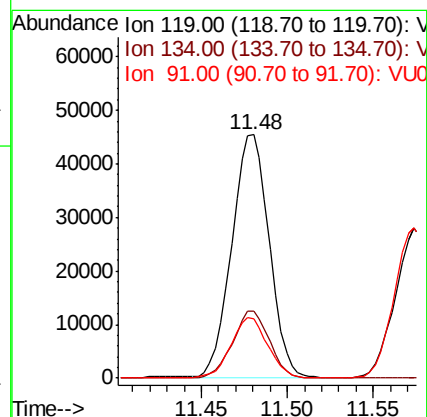
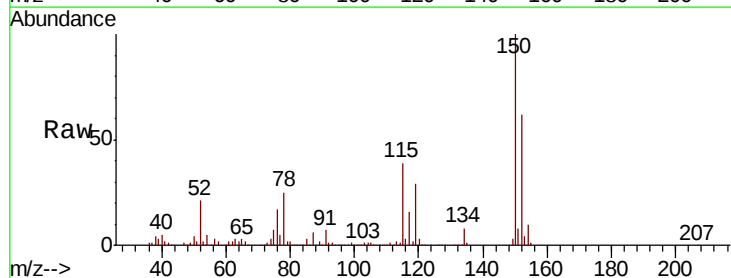
Tgt Ion:119 Resp: 69264

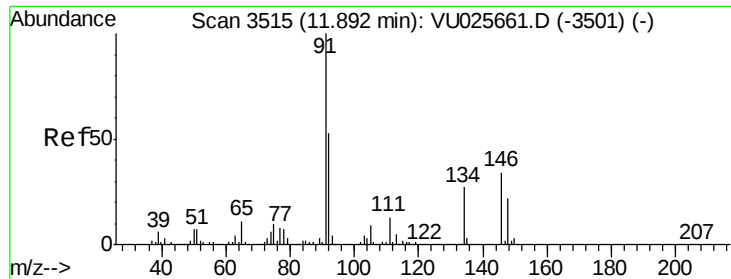
Ion Ratio Lower Upper

119 100

134 27.0 13.2 39.5

91 24.5 12.0 36.1





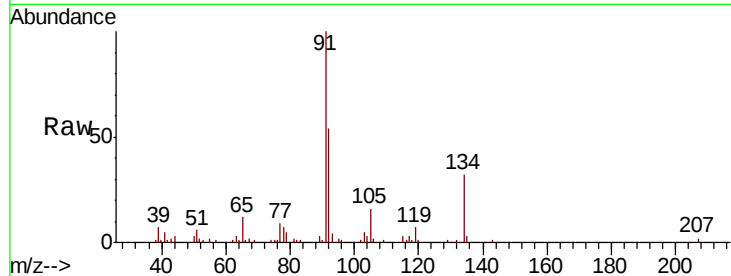
#89
n-Butylbenzene
Concen: 2.81 ug/l m
RT: 11.89 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Instrument :
MSVOA_U
ClientSampled :
FL-0525

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.7	26.5	79.5
134	0.0	13.6	40.7#

Manual Integrations
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7/31/2018 3:50:36 PM

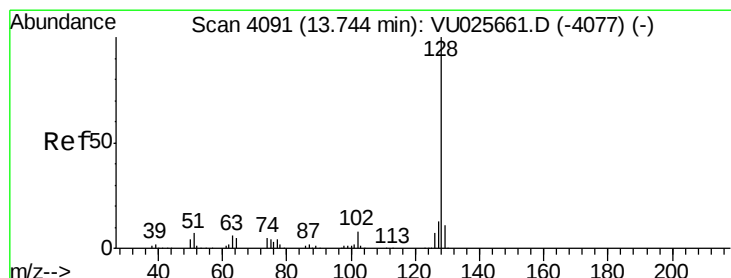
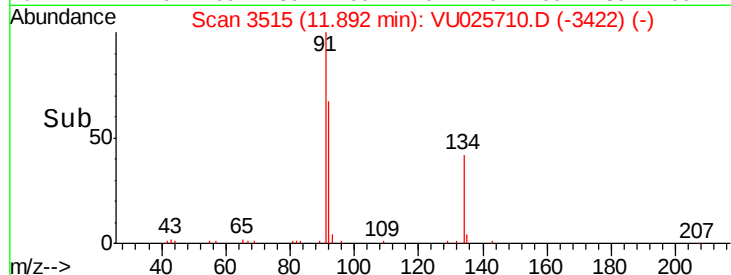
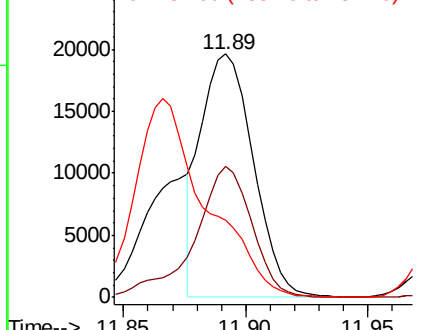


Abundance

Ion 91.00 (90.70 to 91.70): VU025710.D (-3422) (-)

Ion 92.00 (91.70 to 92.70): VU025710.D (-3422) (-)

Ion 134.00 (133.70 to 134.70): VU025710.D (-3422) (-)



#95
Naphthalene
Concen: 12.07 ug/l
RT: 13.74 min Scan# 4091
Delta R.T. 0.00 min
Lab File: VU025710.D
Acq: 28 Jul 2018 08:05

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	12.2	8.3	12.5

Abundance

Ion 128.00 (127.70 to 128.70): VU025710.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU025710.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU025710.D (-3997) (-)

