

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026220.D
 Acq On : 21 Oct 2015 00:24
 Operator : SY/MD
 Sample : G3973-03 60X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:57 PM

Quant Time: Oct 22 12:04:03 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Oct 20 2015
 QLast Update : Tue Oct 20 20:24:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	514751	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.37	114	822776	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.79	117	1712926	10.00	ppbv	0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.32	95	3731838	28.25	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	282.50%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.55	51	89905m	1.38	ppbv	
10) Heptane	9.48	43	26910910	263.47	ppbv #	84
13) Ethanol	4.35	45	18678	4.08	ppbv	99
26) Hexane	6.74	57	28920792	407.37	ppbv #	46
30) Cyclohexane	8.35	84	18246628	256.98	ppbv	96
36) Benzene	8.06	78	3934166	46.95	ppbv	93
53) Toluene	11.30	91	1228479	10.78	ppbv	95
58) Ethyl Benzene	14.46	91	2212609	7.97	ppbv	99
59) m/p-Xylene	14.77	91	1932219	8.89	ppbv	94
60) o-Xylene	15.54	91	243302	1.07	ppbv	92
61) Styrene	15.35	104	130438	1.27	ppbv	91
62) Isopropylbenzene	16.57	105	816719	2.58	ppbv	99
64) n-propylbenzene	17.54	120	204847	2.36	ppbv	77
67) sec-Butylbenzene	19.41	105	311024	0.77	ppbv	99
72) 4-Ethyltoluene	17.83	105	232966	0.88	ppbv #	92
73) 1,3,5-Trimethylbenzene	18.00	105	197716	0.80	ppbv	99
74) 1,2,4-Trimethylbenzene	18.83	105	3561581	13.94	ppbv #	74

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

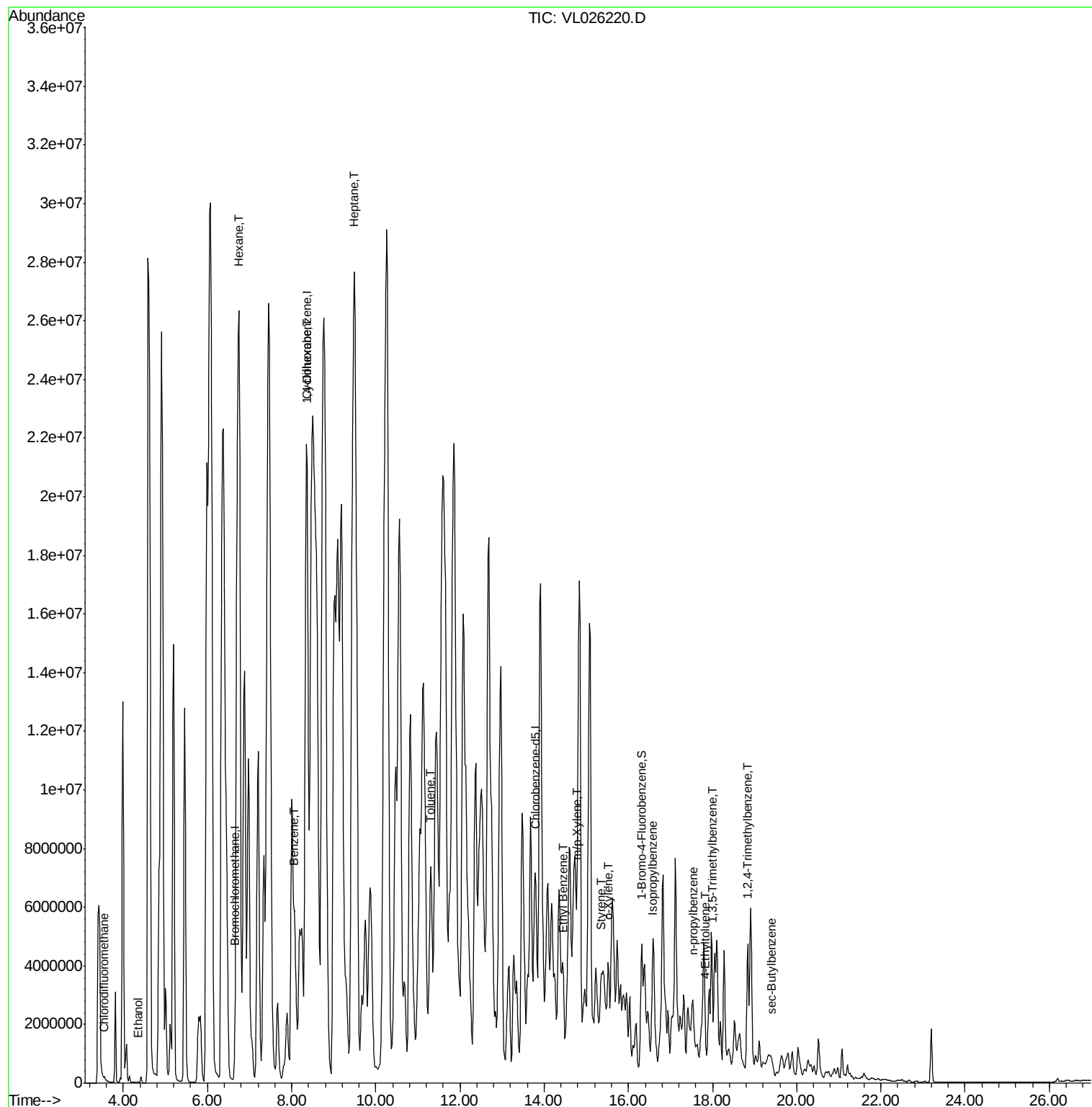
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
Data File : VL026220.D
Acq On : 21 Oct 2015 00:24
Operator : SY/MD
Sample : G3973-03 60X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

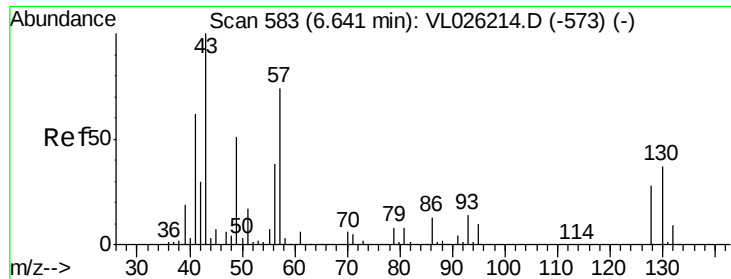
Instrument :
MSVOA_L
ClientSampleId :
SS-3

Manual Integrations
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Quant Time: Oct 22 12:04:03 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct
QLast Update : Tue Oct 20 20:24:48 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampled :

SS-3

Tot Ion: 49 Resp: 514751

Ion Ratio Lower Upper

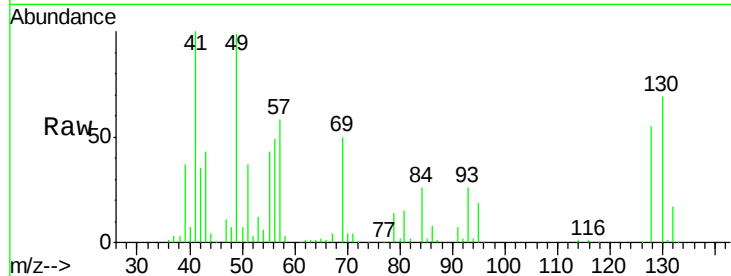
49 100

128 53.4 28.2 84.7

130 68.6 36.0 108.1

Manual Integrations
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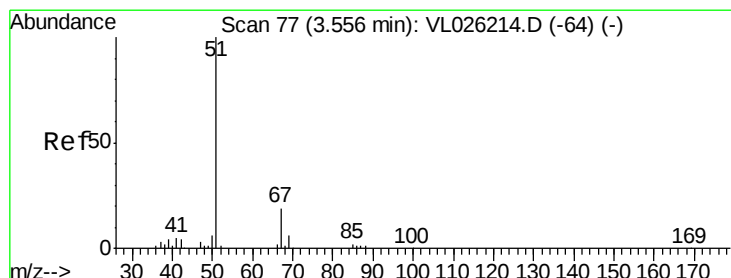
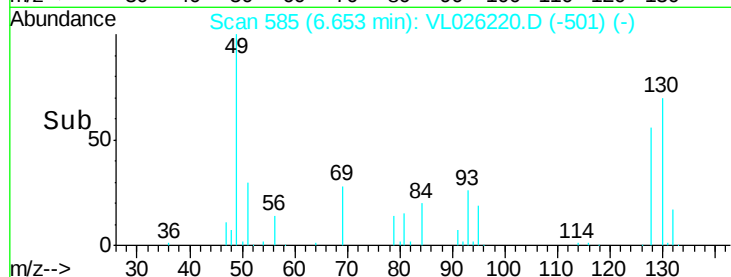
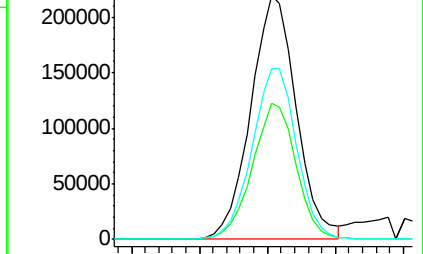
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 1.38 ppbv m

RT: 3.55 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL026220.D

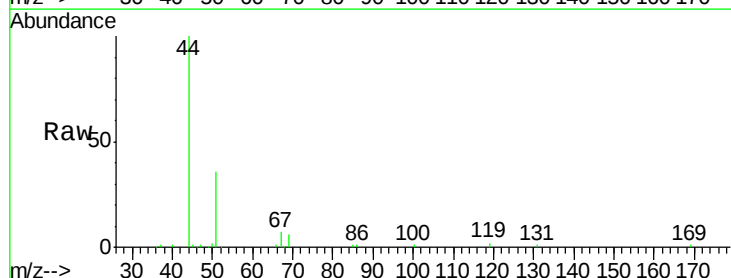
Acq: 21 Oct 2015 00:24

Tgt Ion: 51 Resp: 89905

Ion Ratio Lower Upper

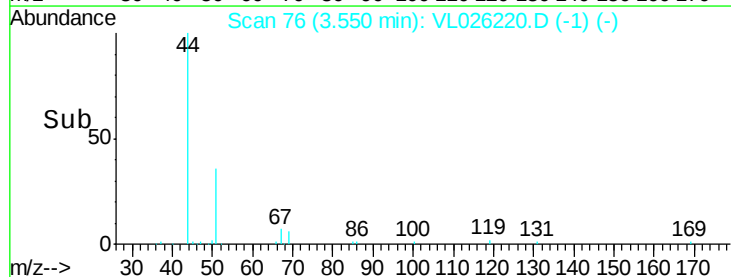
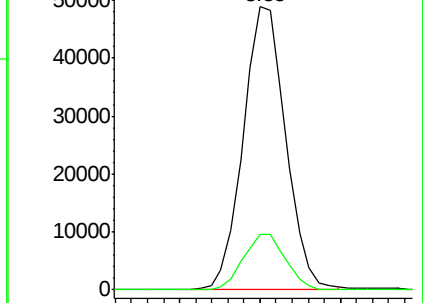
51 100

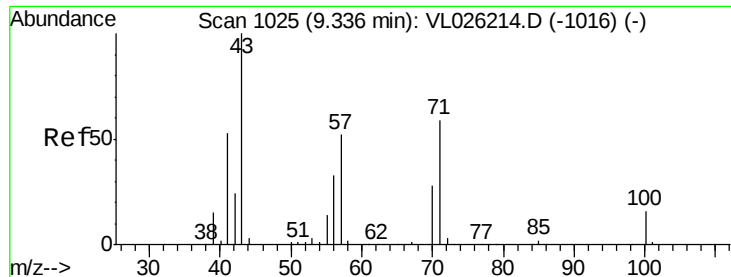
67 19.3 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





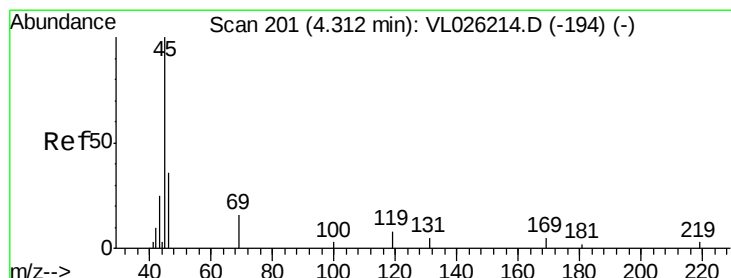
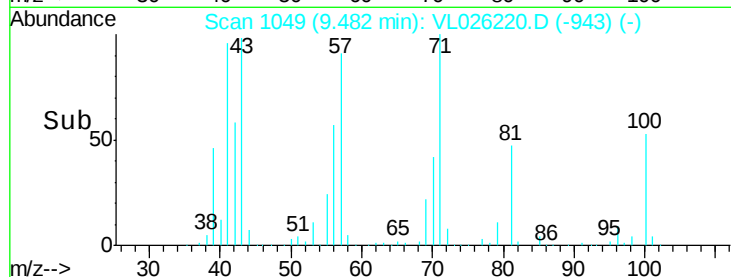
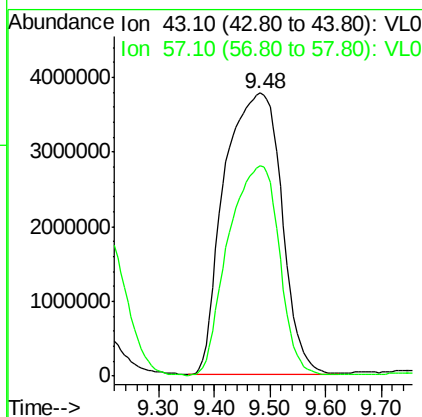
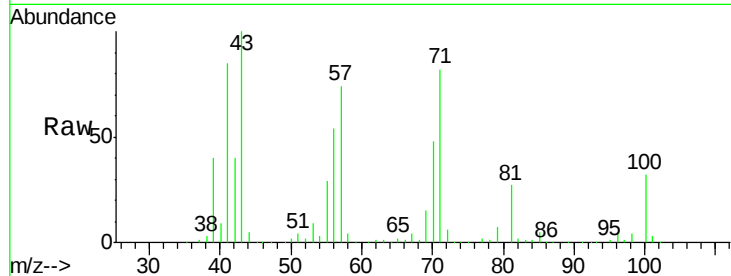
#10
Heptane
Concen: 263.47 ppbv
RT: 9.48 min Scan# 1049
Delta R.T. 0.15 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Instrument :
MSVOA_L
ClientSampled :
SS-3

Tot Ion: 43 Resp: 26910910
Ion Ratio Lower Upper
43 100
57 66.2 43.7 65.5#

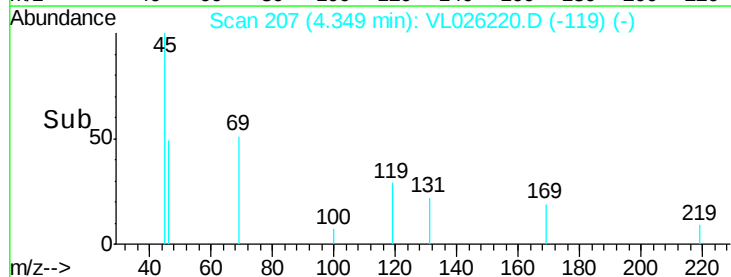
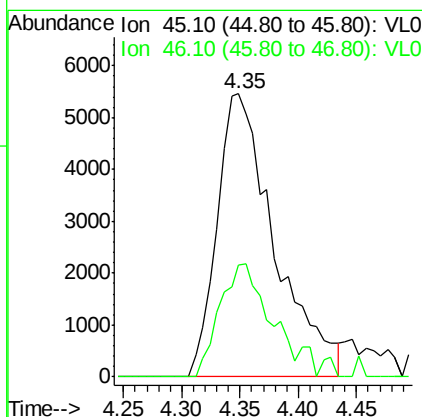
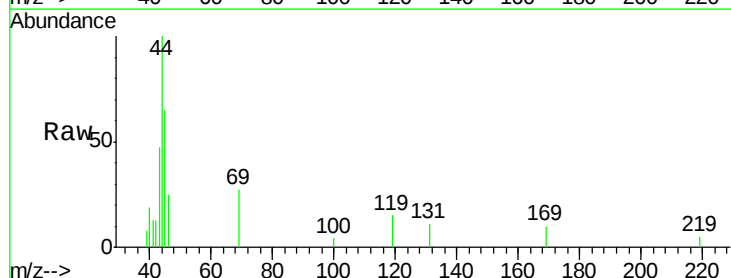
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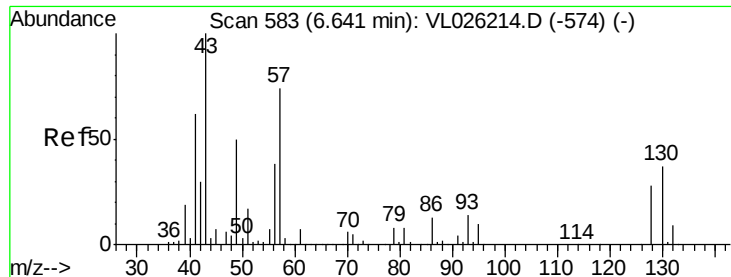
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#13
Ethanol
Concen: 4.08 ppbv
RT: 4.35 min Scan# 207
Delta R.T. 0.04 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 45 Resp: 18678
Ion Ratio Lower Upper
45 100
46 38.5 15.8 63.0





#26

Hexane

Concen: 407.37 ppbv

RT: 6.74 min Scan# 600

Delta R.T. 0.10 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

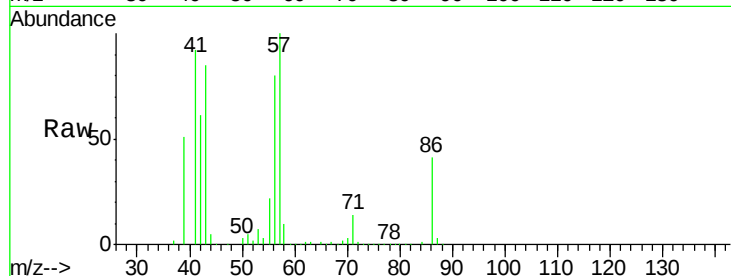
Tot Ion: 57 Resp:28920792

Ion Ratio Lower Upper

57	100		
41	89.3	68.1	102.1
43	78.8	163.4	245.2#
56	71.7	42.2	63.4#

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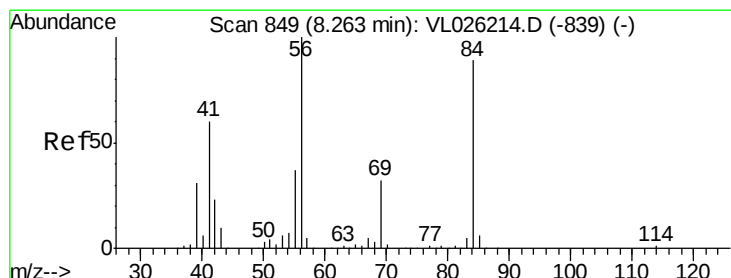
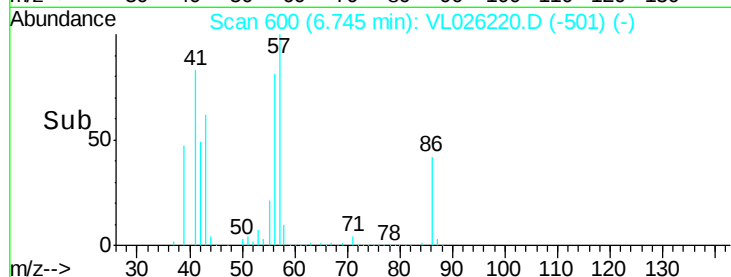
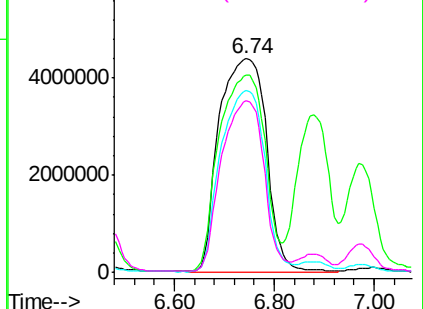


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30

Cyclohexane

Concen: 256.98 ppbv

RT: 8.35 min Scan# 864

Delta R.T. 0.09 min

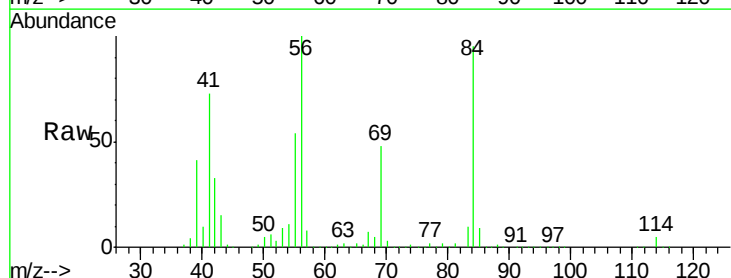
Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Tgt Ion: 84 Resp:18246628

Ion Ratio Lower Upper

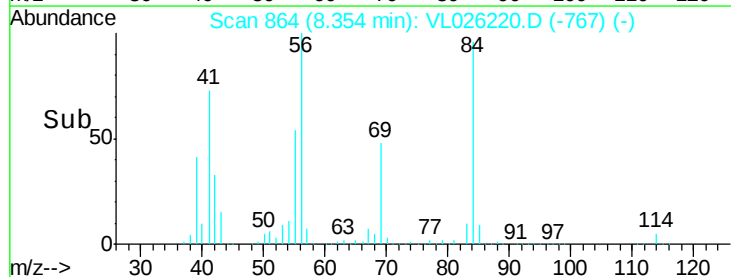
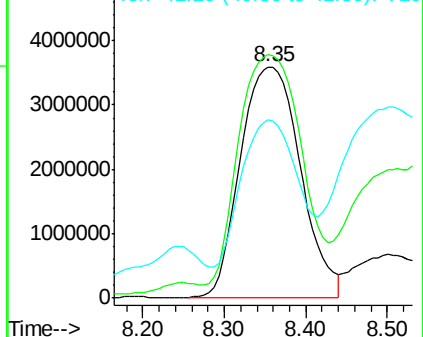
84	100		
56	116.2	95.9	143.9
41	64.8	54.8	82.2

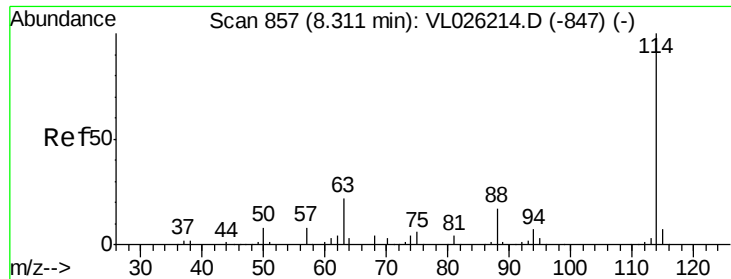


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





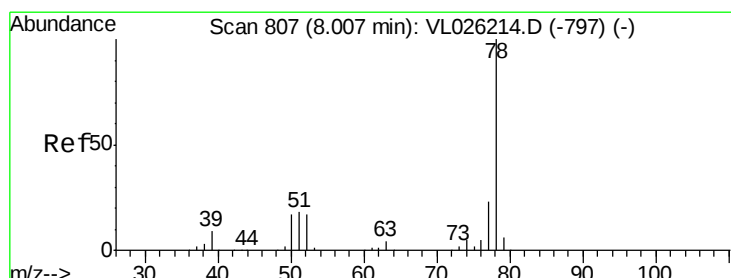
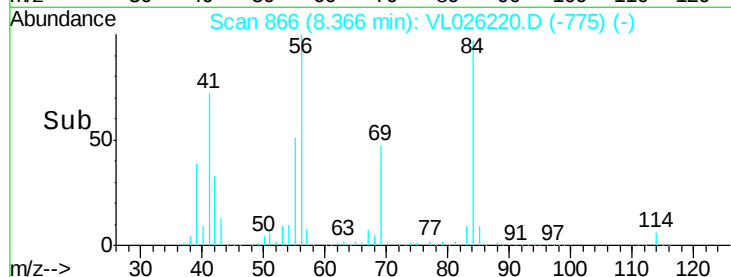
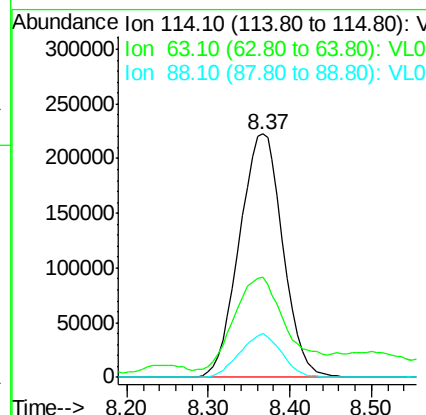
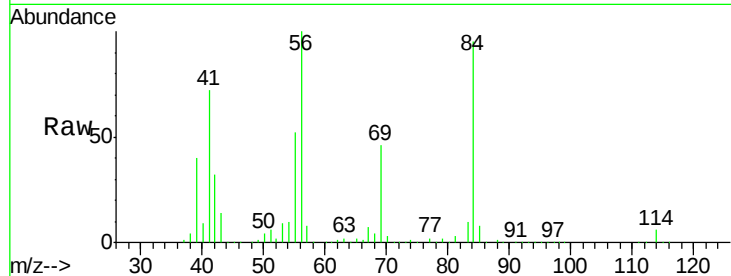
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 866
 Delta R.T. 0.05 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	49.2	18.2	27.4#
88	17.4	13.5	20.3

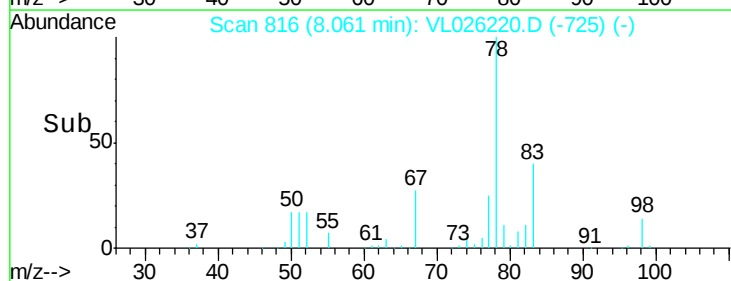
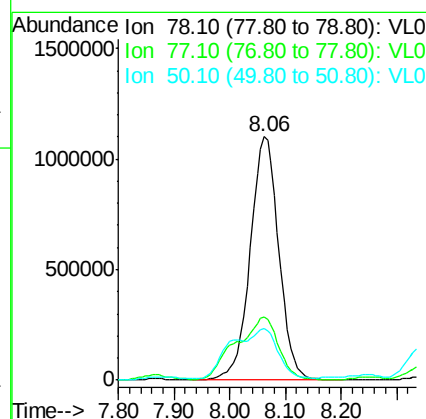
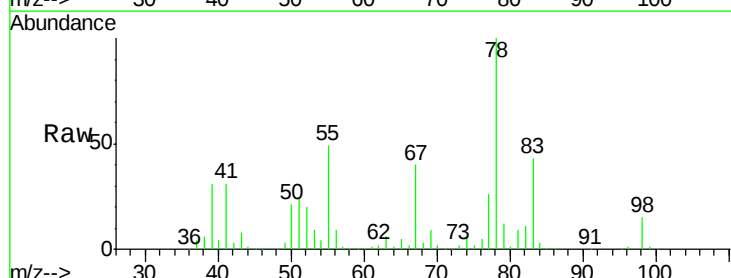
Manual Integrations
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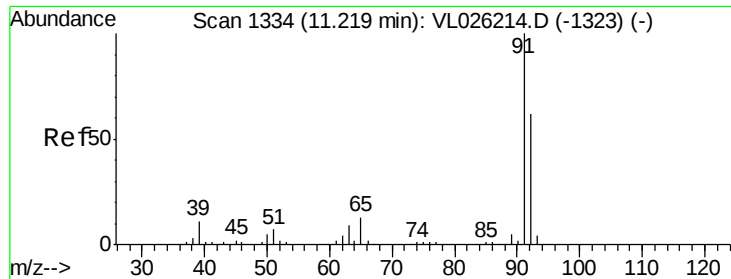
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#36
 Benzene
 Concen: 46.95 ppbv
 RT: 8.06 min Scan# 816
 Delta R.T. 0.05 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.5	18.1	27.1
50	20.6	13.8	20.8





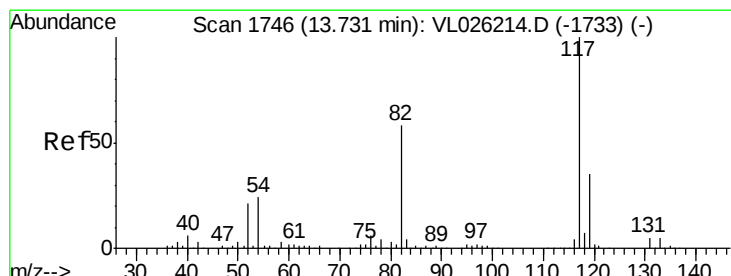
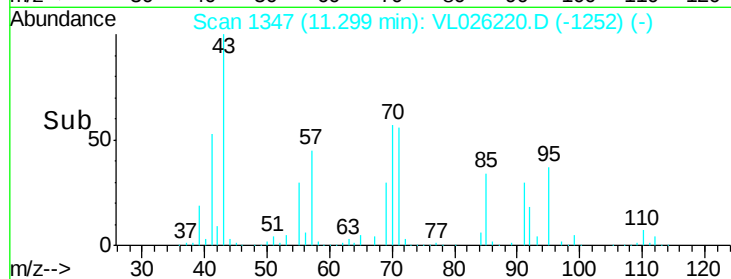
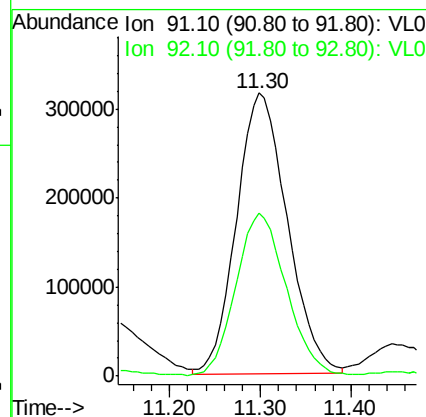
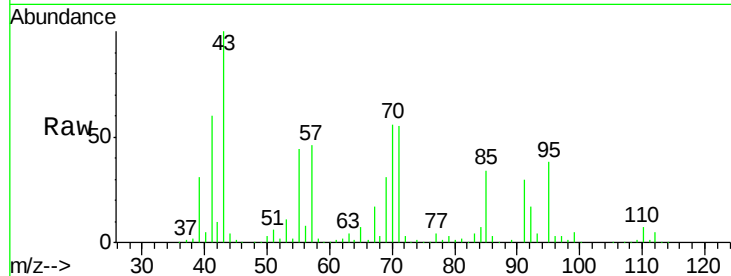
#53
Toluene
Concen: 10.78 ppbv
RT: 11.30 min Scan# 1347
Delta R.T. 0.08 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Instrument :
MSVOA_L
ClientSampled :
SS-3

Tot Ion: 91 Resp: 1228479
Ion Ratio Lower Upper
91 100
92 57.3 49.2 73.8

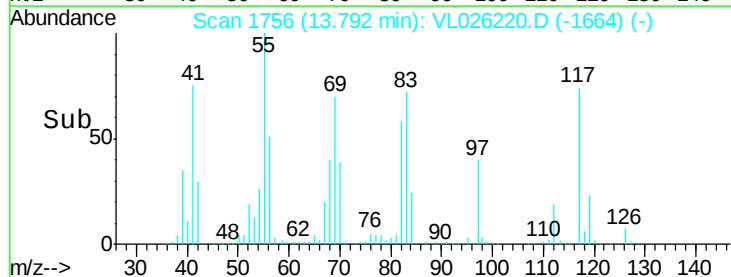
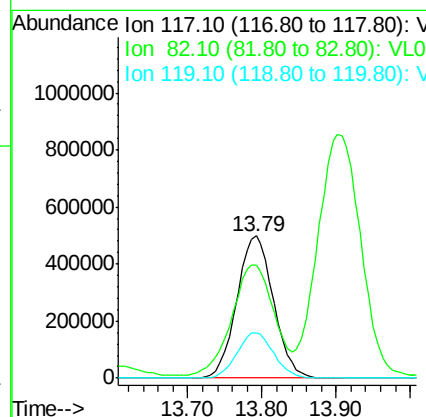
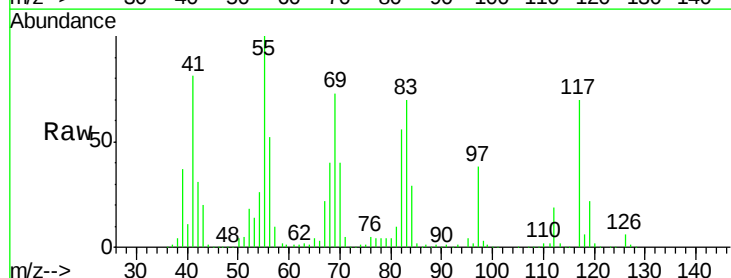
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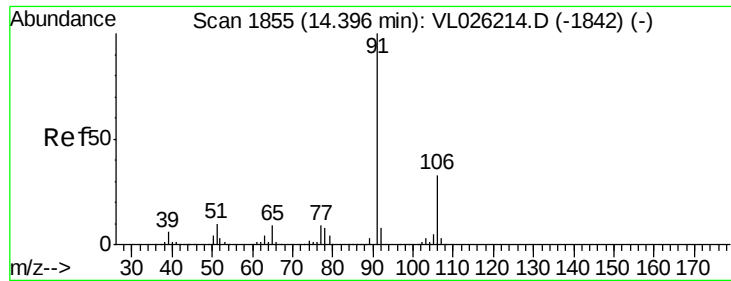
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#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. 0.06 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 117 Resp: 1712926
Ion Ratio Lower Upper
117 100
82 91.5 45.8 68.8#
119 32.2 45.0 67.4#





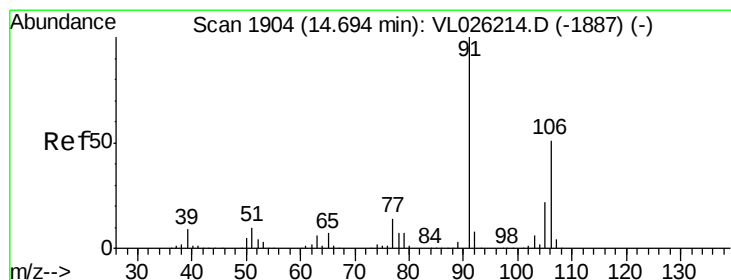
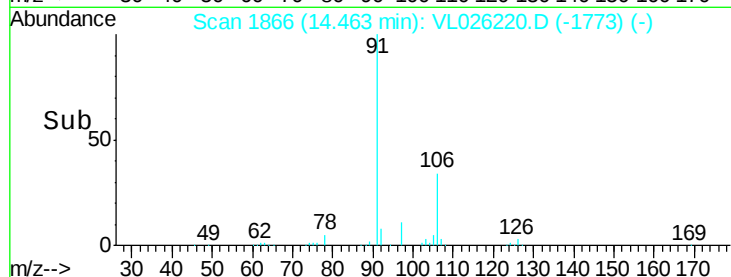
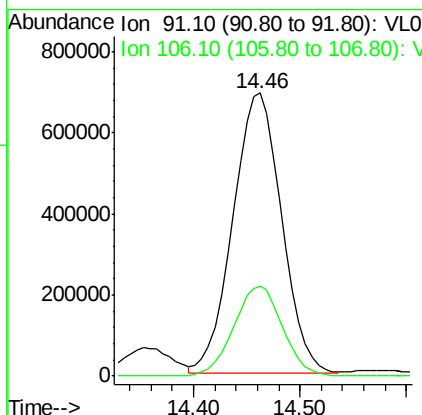
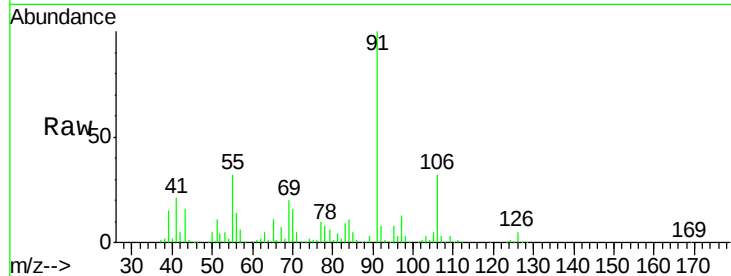
#58
Ethyl Benzene
Concen: 7.97 ppbv
RT: 14.46 min Scan# 1866
Delta R.T. 0.07 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Instrument :
MSVOA_L
ClientSampled :
SS-3

Tot Ion: 91 Resp: 2212609
Ion Ratio Lower Upper
91 100
106 32.1 26.1 39.1

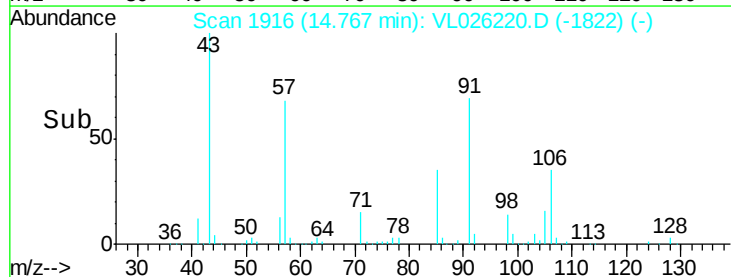
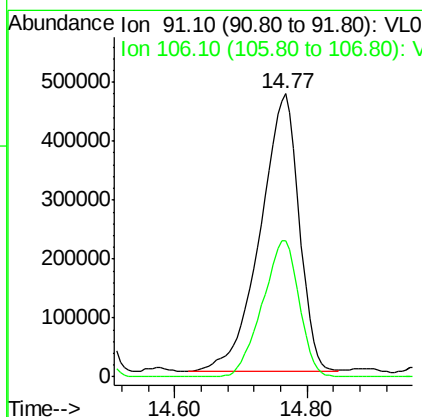
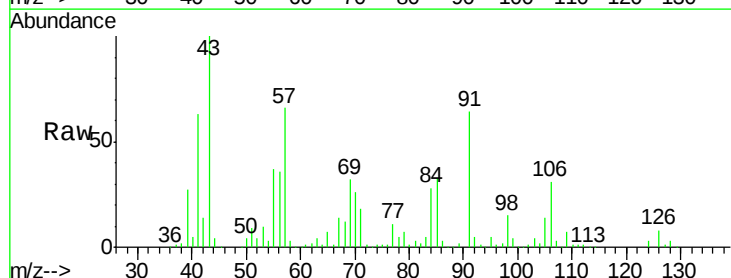
Manual Integrations
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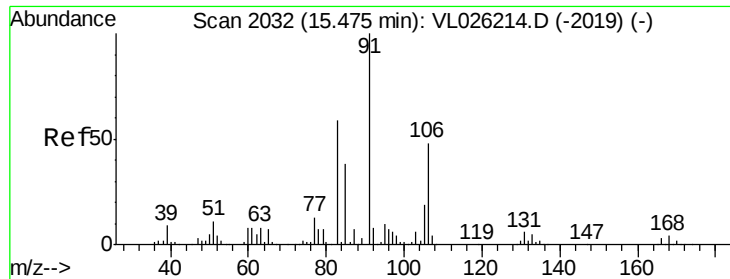
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#59
m/p-Xylene
Concen: 8.89 ppbv
RT: 14.77 min Scan# 1916
Delta R.T. 0.07 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 91 Resp: 1932219
Ion Ratio Lower Upper
91 100
106 46.4 40.6 61.0





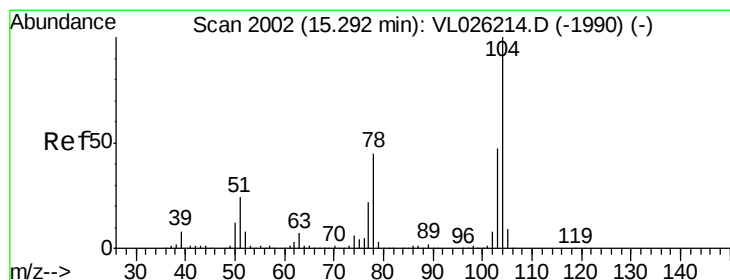
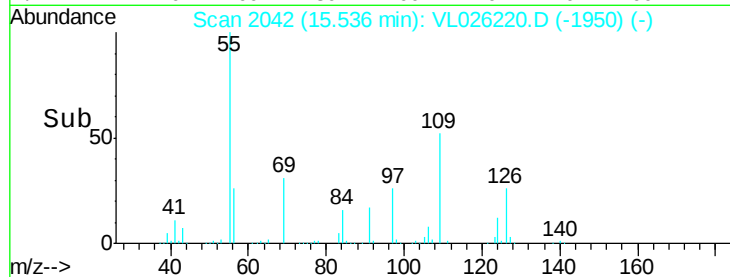
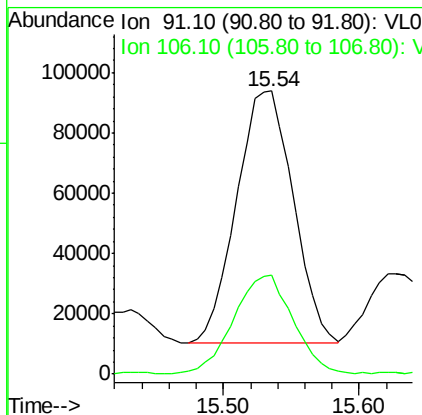
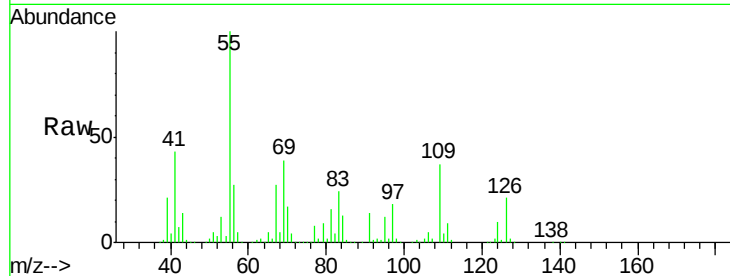
#60
o-Xylene
Concen: 1.07 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. 0.06 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Instrument :
MSVOA_L
ClientSampleId :
SS-3

Tot Ion: 91 Resp: 243302
Ion Ratio Lower Upper
91 100
106 42.0 23.8 71.5

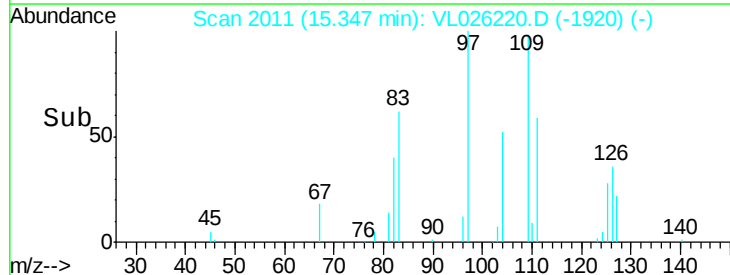
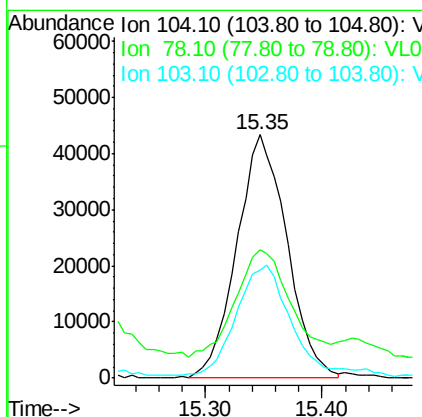
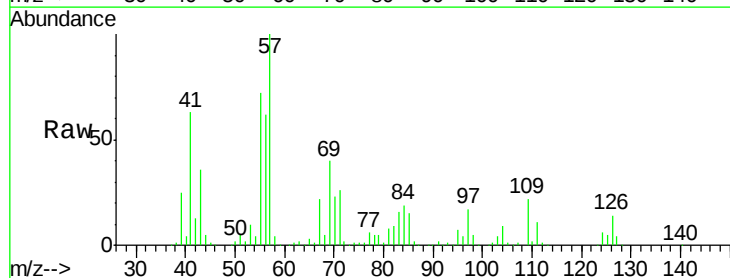
Manual Integrations
APPROVED

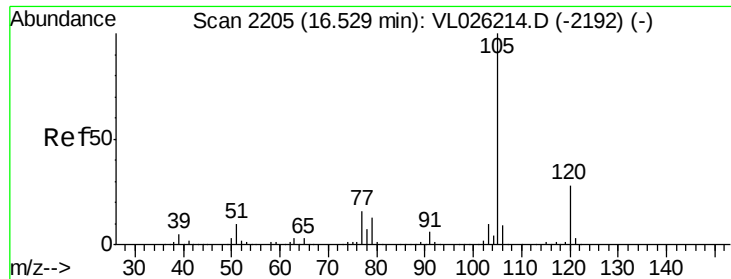
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#61
Styrene
Concen: 1.27 ppbv
RT: 15.35 min Scan# 2011
Delta R.T. 0.05 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 104 Resp: 130438
Ion Ratio Lower Upper
104 100
78 51.2 35.3 52.9
103 50.8 37.0 55.4





#62

Isopropylbenzene

Concen: 2.58 ppbv

RT: 16.57 min Scan# 2211

Delta R.T. 0.04 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampled :

SS-3

Tot Ion:105 Resp: 816719

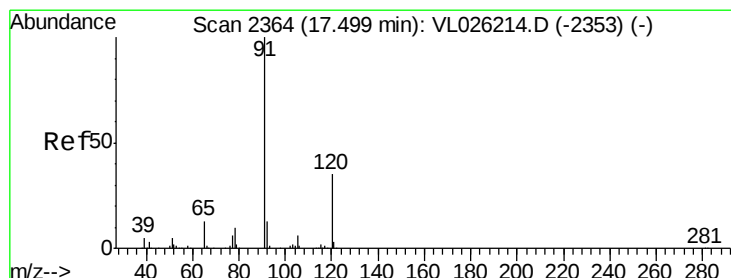
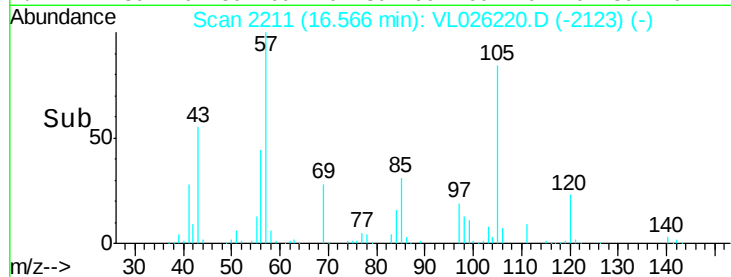
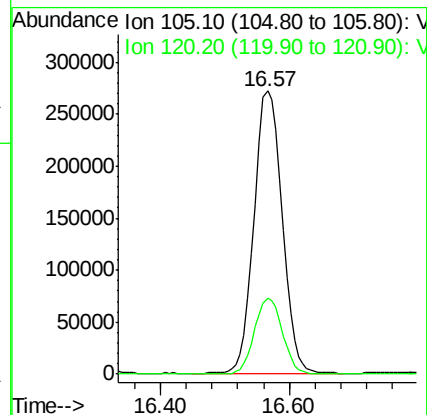
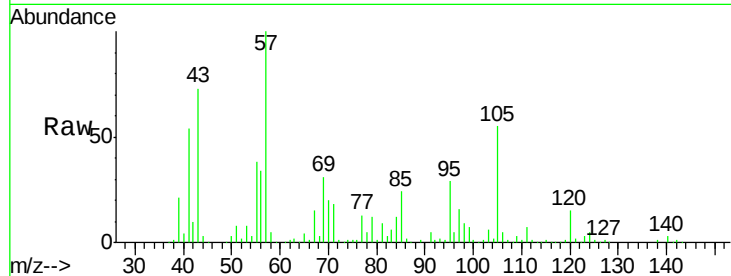
Ion Ratio Lower Upper

105 100

120 26.6 21.8 32.8

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#64

n-propylbenzene

Concen: 2.36 ppbv

RT: 17.54 min Scan# 2370

Delta R.T. 0.04 min

Lab File: VL026220.D

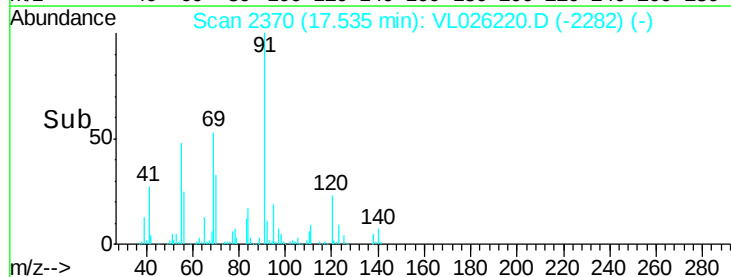
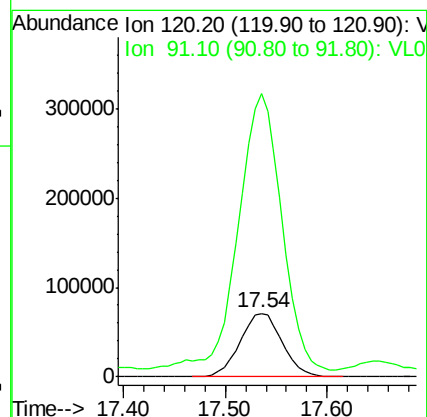
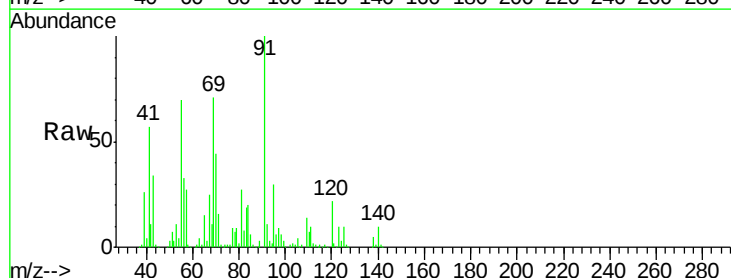
Acq: 21 Oct 2015 00:24

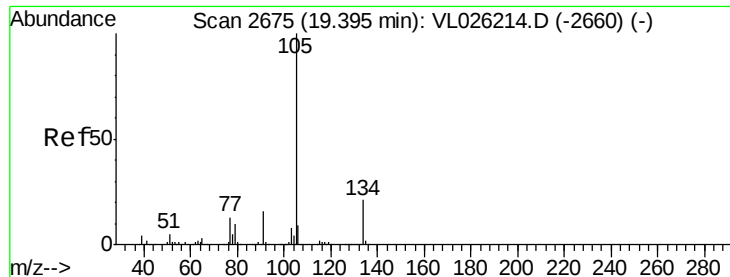
Tgt Ion:120 Resp: 204847

Ion Ratio Lower Upper

120 100

91 470.8 331.7 497.5





#67

sec-Butylbenzene

Concen: 0.77 ppbv

RT: 19.41 min Scan# 2677

Delta R.T. 0.01 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

Tot Ion: 105 Resp: 311024

Ion Ratio Lower Upper

105 100

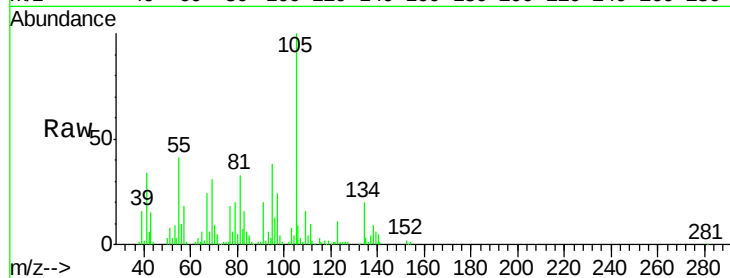
134 20.0 16.2 24.4

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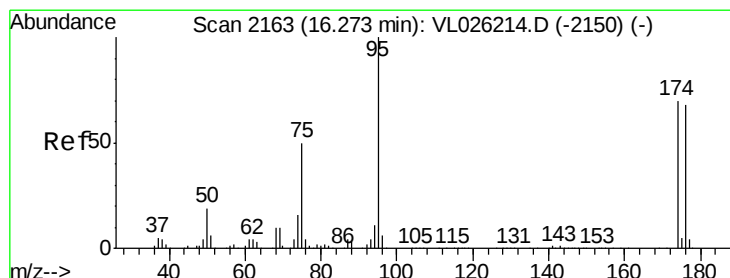
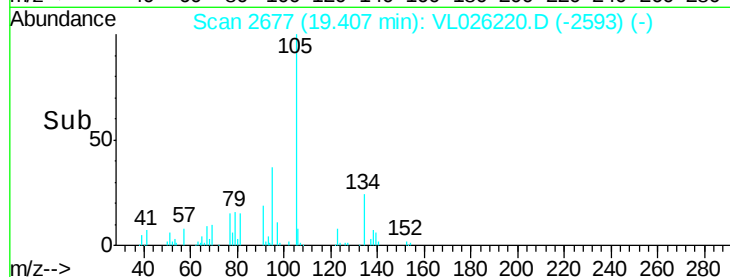
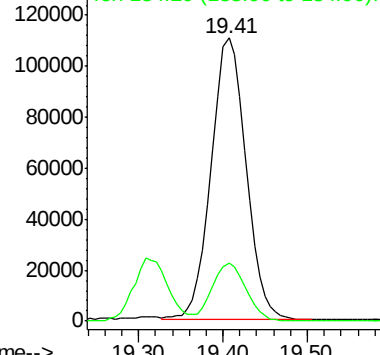
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 28.25 ppbv

RT: 16.32 min Scan# 2171

Delta R.T. 0.05 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

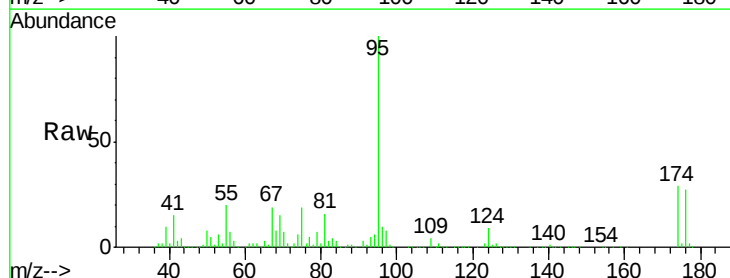
Tgt Ion: 95 Resp: 3731838

Ion Ratio Lower Upper

95 100

174 28.8 55.8 83.8#

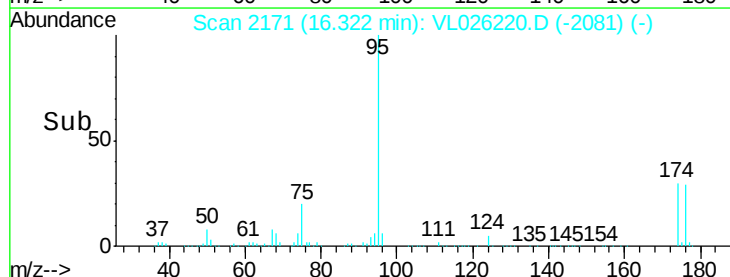
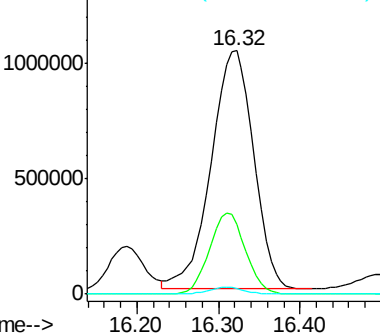
175 2.3 4.3 6.5#

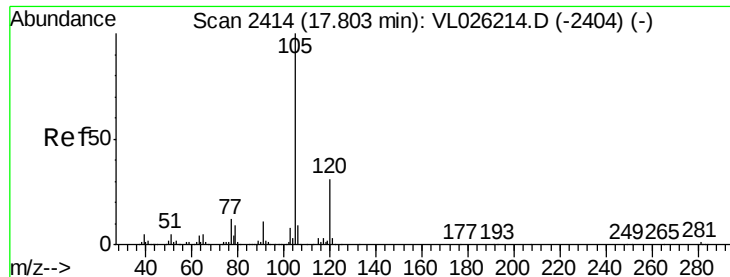


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.88 ppbv

RT: 17.83 min Scan# 2419

Delta R.T. 0.03 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

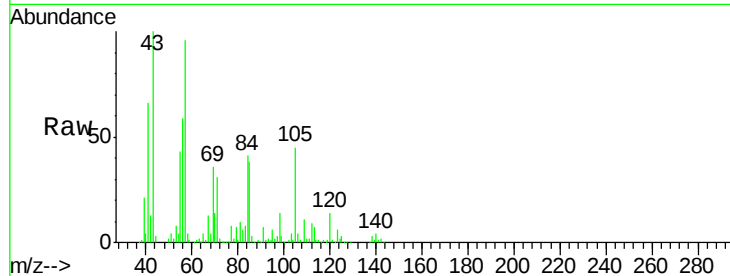
ClientSampled :

SS-3

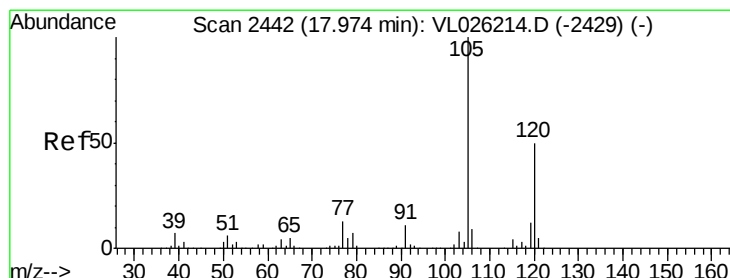
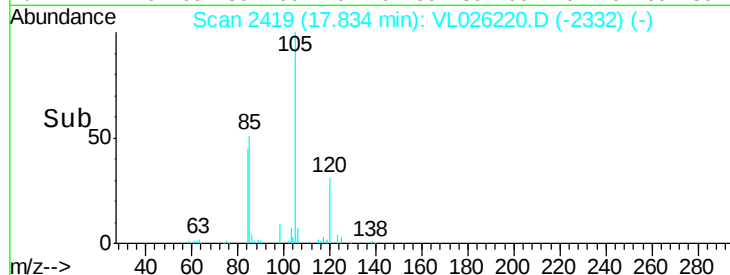
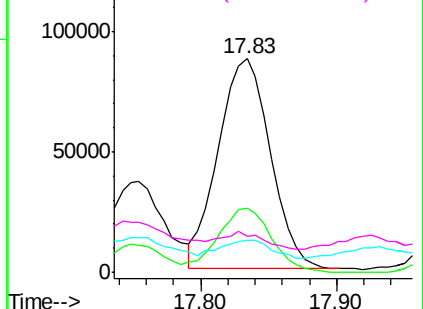
Tot Ion:	105	Resp:	232966
Ion Ratio	Lower	Upper	
105	100		
120	31.5	25.2	37.8
91	0.0	9.0	13.6#
77	8.9	9.7	14.5#

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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.80 ppbv

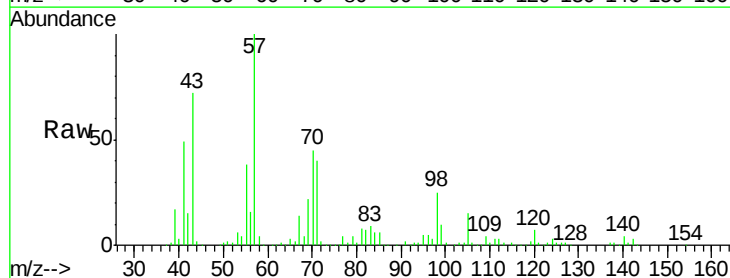
RT: 18.00 min Scan# 2446

Delta R.T. 0.02 min

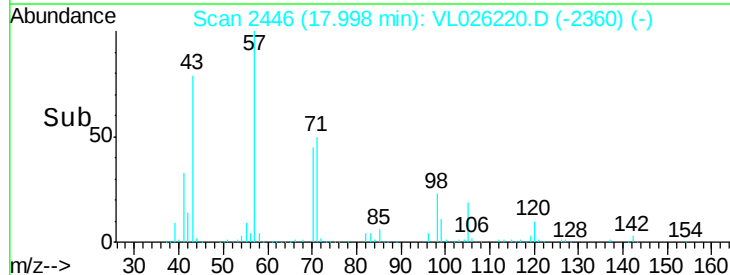
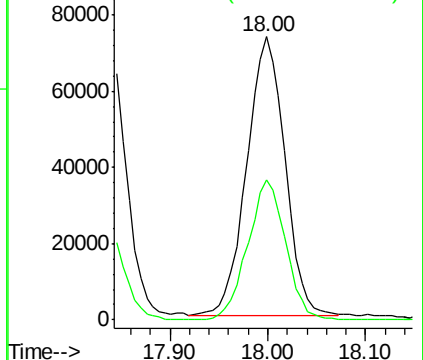
Lab File: VL026220.D

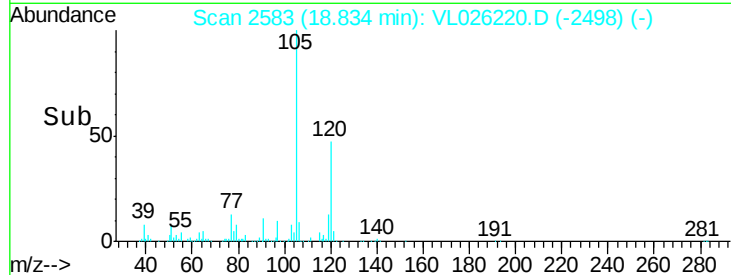
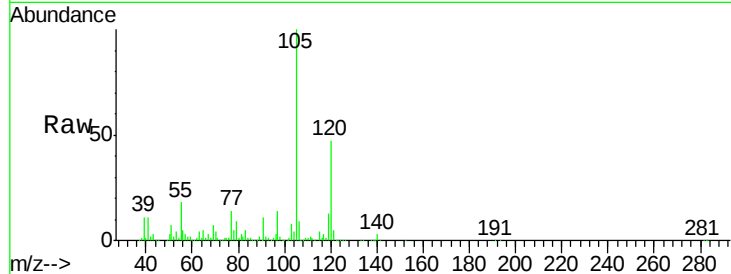
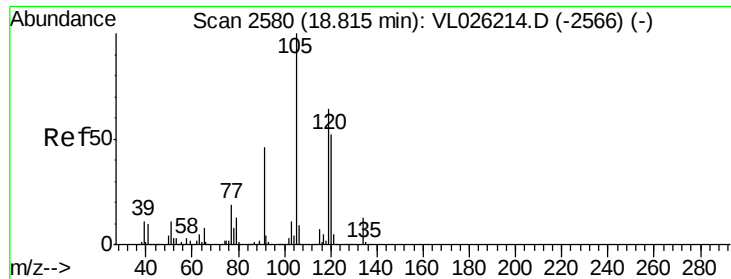
Acq: 21 Oct 2015 00:24

Tgt Ion:	105	Resp:	197716
Ion Ratio	Lower	Upper	
105	100		
120	50.2	39.8	59.6



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#74
 1,2,4-Trimethylbenzene
 Concen: 13.94 ppbv
 RT: 18.83 min Scan# 2583
 Delta R.T. 0.02 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

Tot Ion	Ratio	Resp	Lower	Upper
105	100	3561581		
120	47.3		41.2	61.8
91	11.0		37.2	55.8
77	13.3		15.6	23.4

Manual Integrations
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