

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL072715\
 Data File : VL025761.D
 Acq On : 27 Jul 2015 20:17
 Operator : SY/MD
 Sample : G3092-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-217-B

Manual Integrations
 APPROVED

MMDadoda
 7/28/2015 12:57:13 PM

Quant Time: Jul 28 11:25:50 2015

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08

QLast Update : Wed Jul 08 02:22:55 2015

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	669252	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1798408	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	2182865	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1817633	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.64	85	44464	0.26	ppbv	93
3) Chlorodifluoromethane	3.57	51	90861m	0.96	ppbv	
4) Chloromethane	3.75	50	20006	0.46	ppbv	98
9) Propene	3.61	41	431117m	13.76	ppbv	
10) Heptane	9.35	43	16369	0.13	ppbv	92
11) Trichlorofluoromethane	4.70	101	43839	0.19	ppbv	94
13) Ethanol	4.32	45	335143	68.79	ppbv	98
15) Acetone	4.59	43	1879355	15.90	ppbv	99
17) tert-Butyl alcohol	5.14	59	43826	0.44	ppbv	97
19) Isopropyl Alcohol	4.75	45	573900	12.16	ppbv #	98
20) Methylene Chloride	5.15	84	277843	5.78	ppbv	98
26) Hexane	6.66	57	135002	1.60	ppbv #	48
29) Chloroform	6.75	83	21138	0.13	ppbv	89
30) Cyclohexane	8.31	84	12611	0.16	ppbv #	23
34) 2-Butanone	6.20	43	80259	0.79	ppbv	97
35) Carbon Tetrachloride	8.16	117	11276	0.06	ppbv	85
36) Benzene	8.02	78	28092	0.16	ppbv	97
44) 2,2,4-Trimethylpentane	9.09	57	61576	0.21	ppbv #	76
52) Tetrachloroethene	12.79	164	312965	3.62	ppbv	97
53) Toluene	11.24	91	209696	0.87	ppbv	99
58) Ethyl Benzene	14.41	91	44985	0.12	ppbv	92
59) m/p-Xylene	14.69	91	166021	0.52	ppbv	97
60) o-Xylene	15.49	91	87452	0.26	ppbv	98
61) Styrene	15.31	104	14933	0.12	ppbv	96
64) n-propylbenzene	17.52	120	47067	0.39	ppbv	92
69) p-Isopropyltoluene	19.79	119	90882	0.18	ppbv #	81
72) 4-Ethyltoluene	17.82	105	325367	0.86	ppbv	96
73) 1,3,5-Trimethylbenzene	17.99	105	203183	0.55	ppbv	100
74) 1,2,4-Trimethylbenzene	18.83	105	502026	1.21	ppbv #	68
79) Naphthalene	23.93	128	49597	0.12	ppbv	96

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

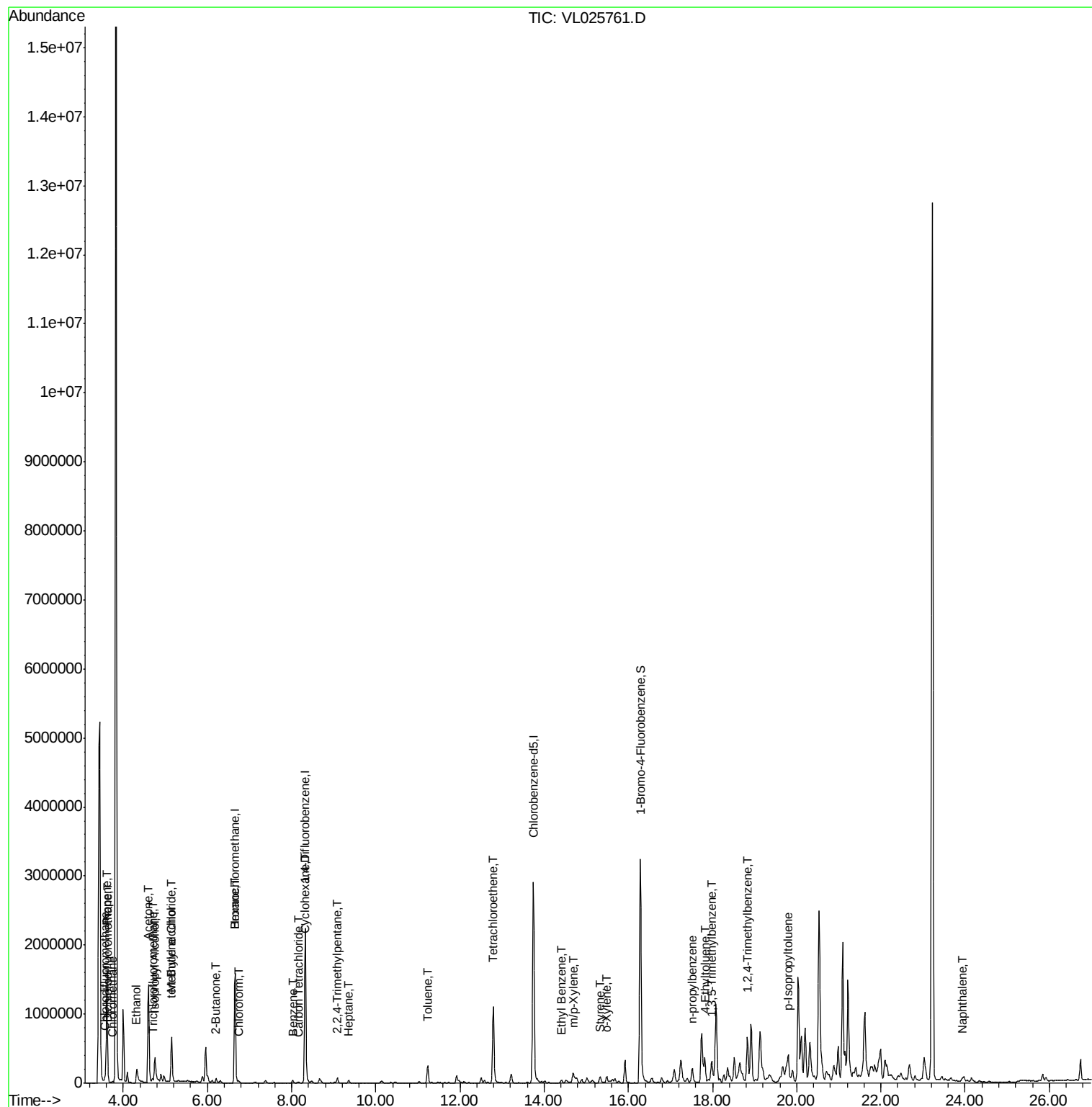
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL072715\
Data File : VL025761.D
Acq On : 27 Jul 2015 20:17
Operator : SY/MD
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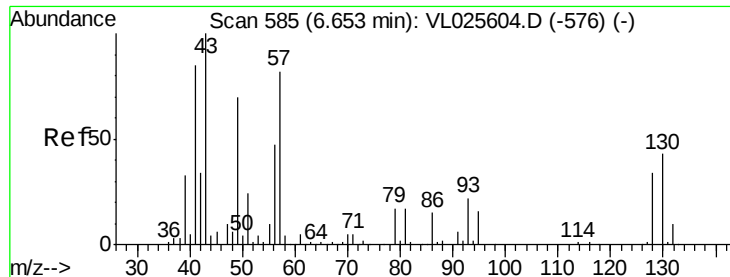
Instrument :
MSVOA_L
ClientSampleId :
A-217-B

Manual Integrations
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7/28/2015 12:57:13 PM

Quant Time: Jul 28 11:25:50 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

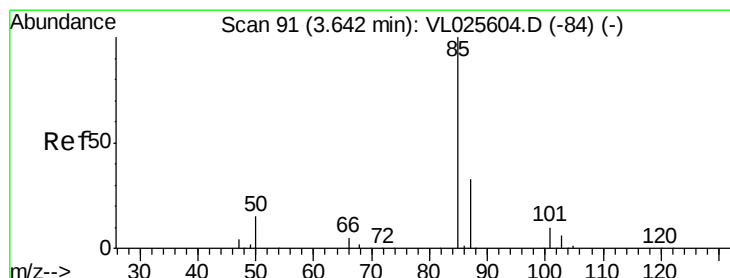
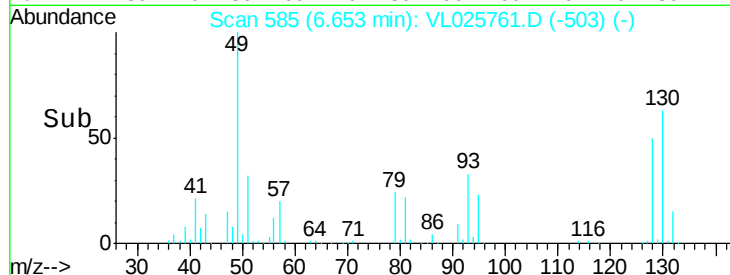
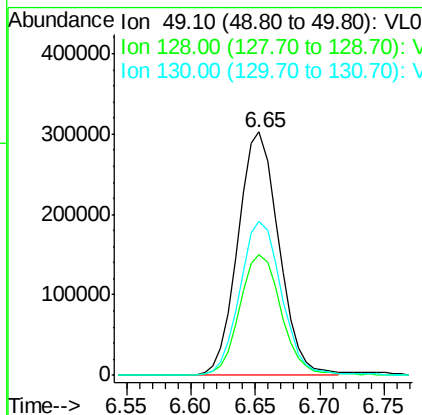
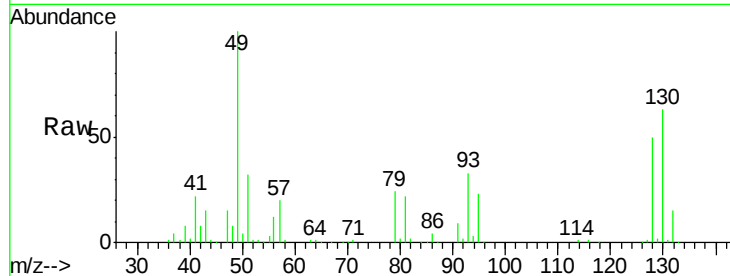
ClientSampled :

A-217-B

Tgt Ion: 49 Resp: 669252
 Ion Ratio Lower Upper
 49 100
 128 50.7 25.4 76.0
 130 65.2 31.9 95.9

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.26 ppbv

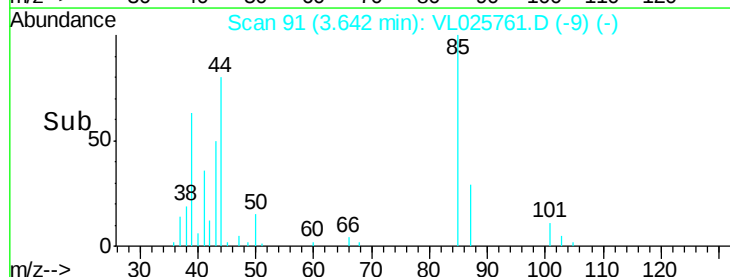
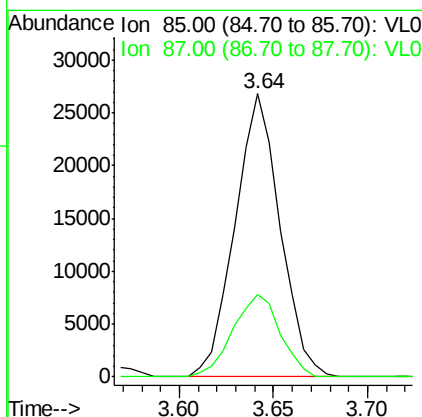
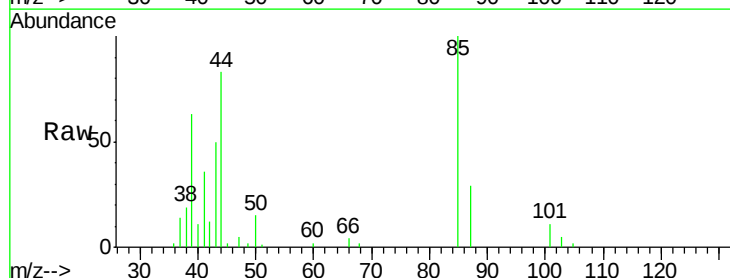
RT: 3.64 min Scan# 91

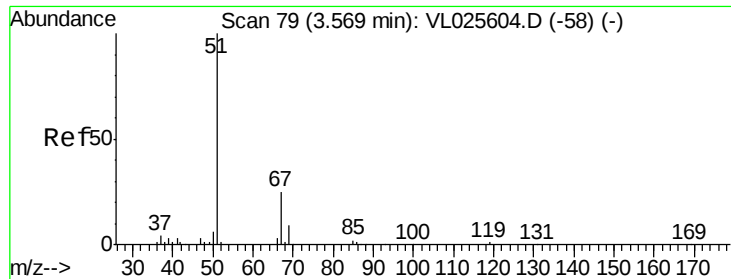
Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion: 85 Resp: 44464
 Ion Ratio Lower Upper
 85 100
 87 29.3 26.5 39.7





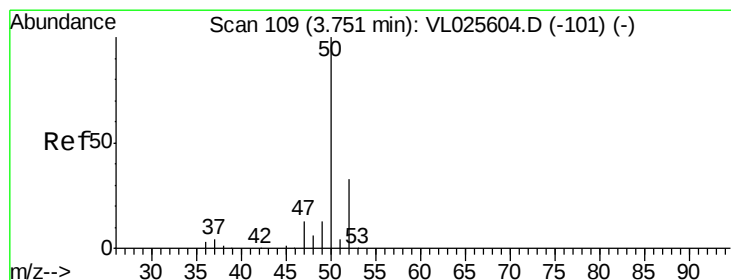
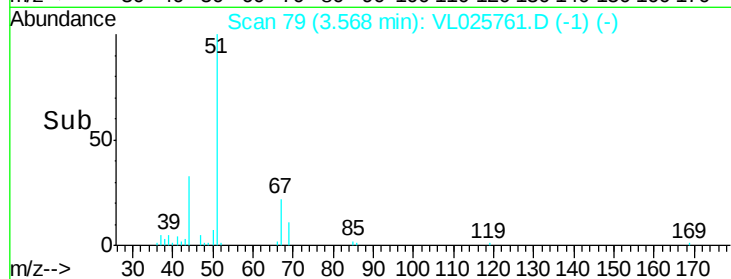
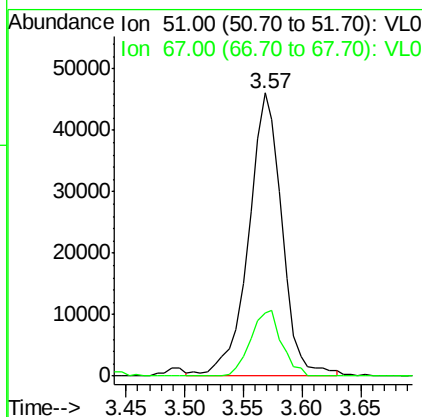
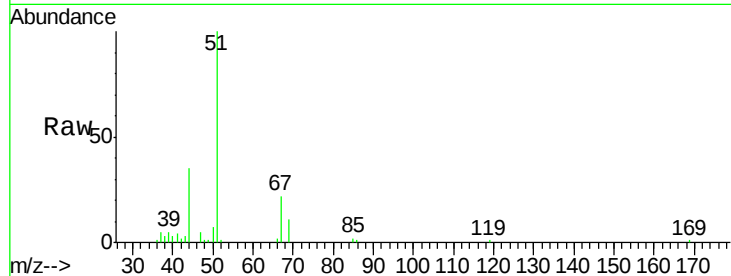
#3
Chlorodifluoromethane
Concen: 0.96 ppbv m
RT: 3.57 min Scan# 79
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampled :
A-217-B

Tgt Ion: 51 Resp: 90861
Ion Ratio Lower Upper
51 100
67 21.5 19.5 29.3

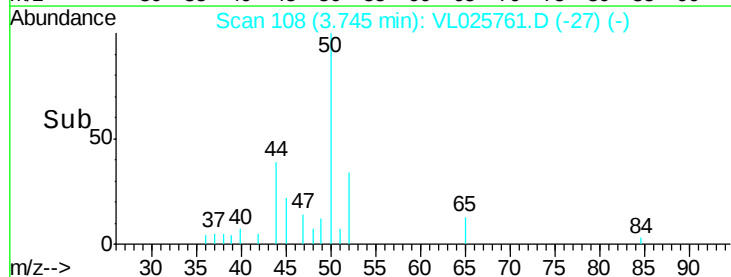
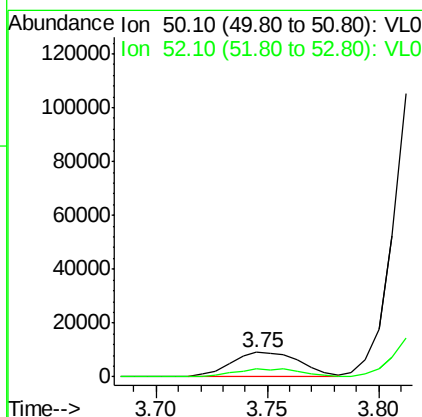
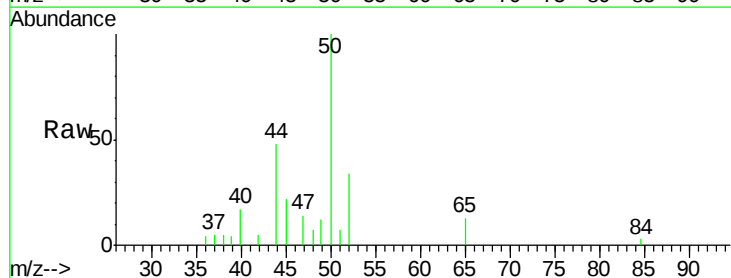
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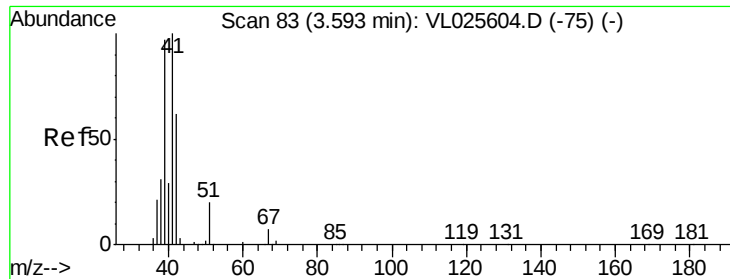
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#4
Chloromethane
Concen: 0.46 ppbv
RT: 3.75 min Scan# 108
Delta R.T. -0.01 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion: 50 Resp: 20006
Ion Ratio Lower Upper
50 100
52 33.8 26.2 39.2





#9

Propene

Concen: 13.76 ppbv m

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

ClientSampled :

A-217-B

Tgt Ion: 41 Resp: 431117

Ion Ratio Lower Upper

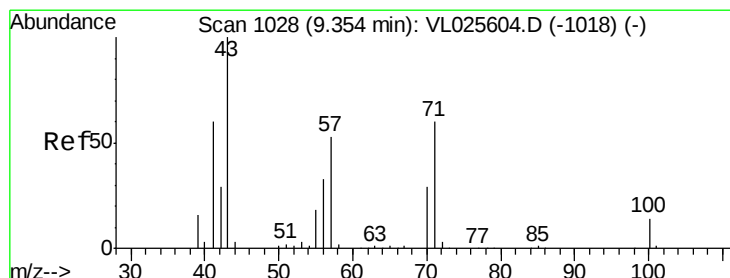
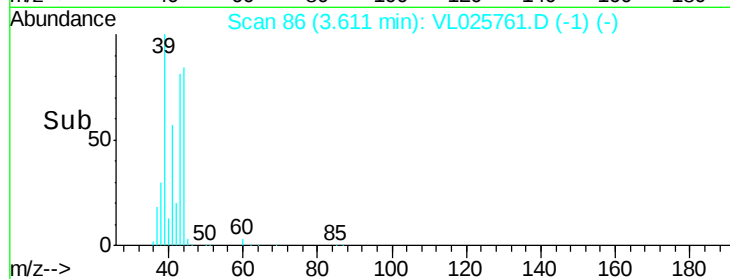
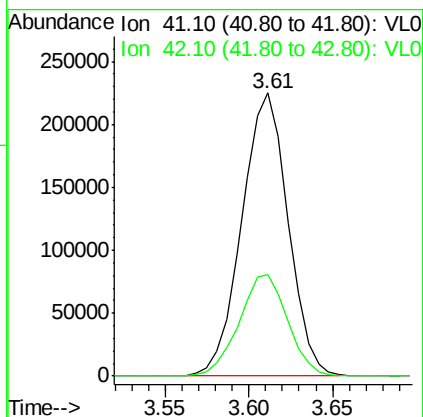
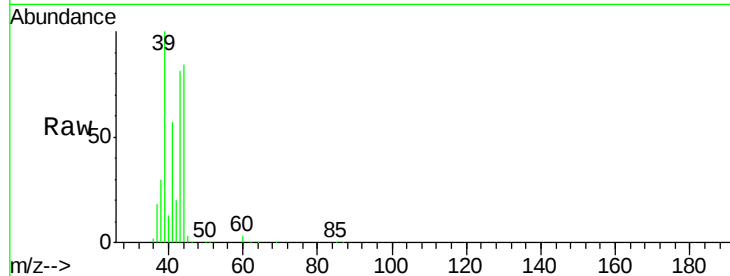
41 100

42 1279.9 52.4 78.6

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#10

Heptane

Concen: 0.13 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VL025761.D

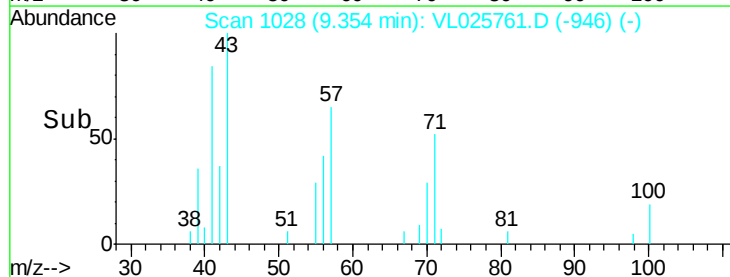
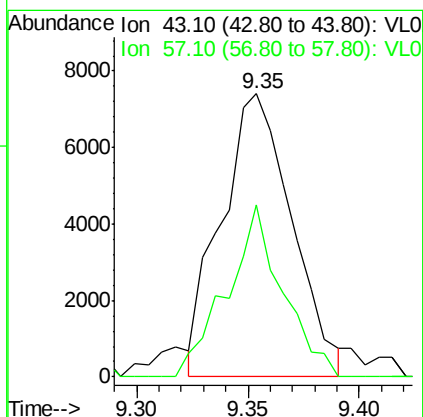
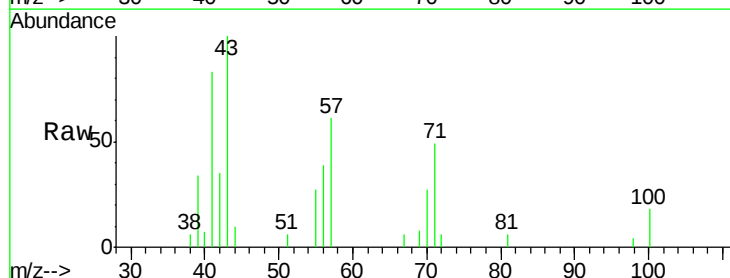
Acq: 27 Jul 2015 20:17

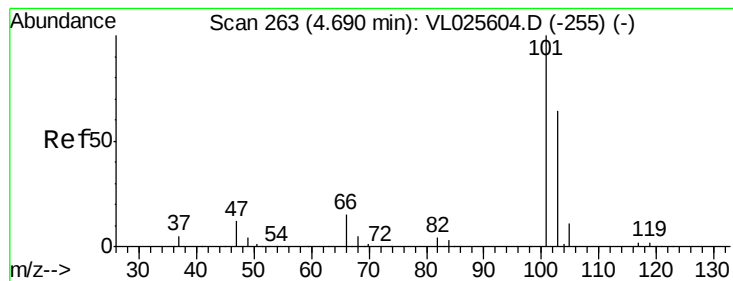
Tgt Ion: 43 Resp: 16369

Ion Ratio Lower Upper

43 100

57 47.7 42.6 64.0





#11

Trichlorofluoromethane

Concen: 0.19 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

ClientSampled :

A-217-B

Tgt Ion: 101 Resp: 43839

Ion Ratio Lower Upper

101 100

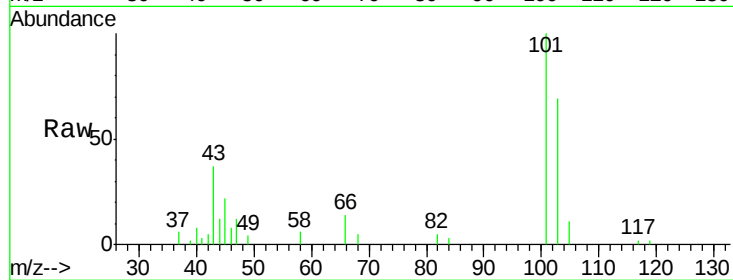
103 69.1 51.4 77.2

Manual Integrations

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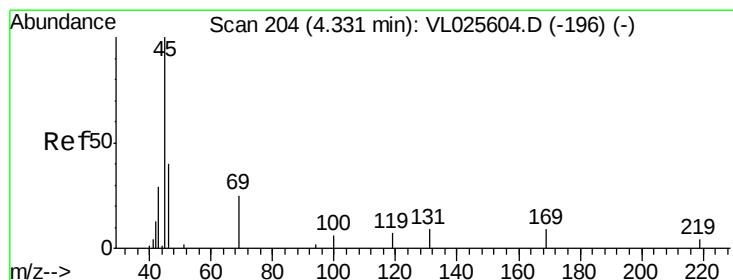
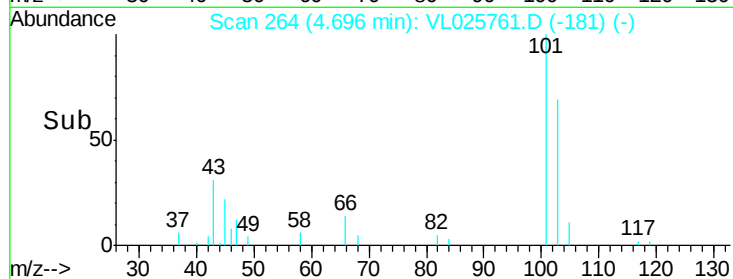
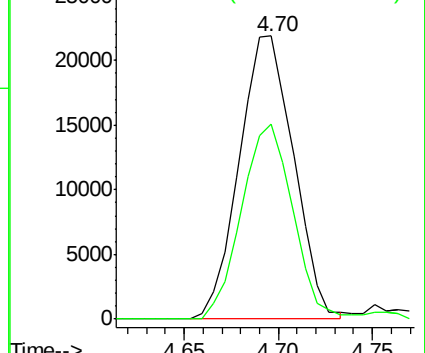
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 68.79 ppbv

RT: 4.32 min Scan# 203

Delta R.T. -0.01 min

Lab File: VL025761.D

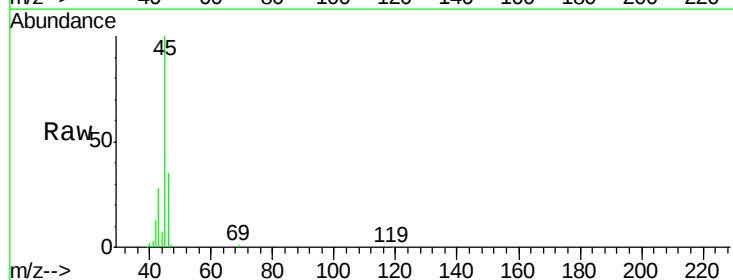
Acq: 27 Jul 2015 20:17

Tgt Ion: 45 Resp: 335143

Ion Ratio Lower Upper

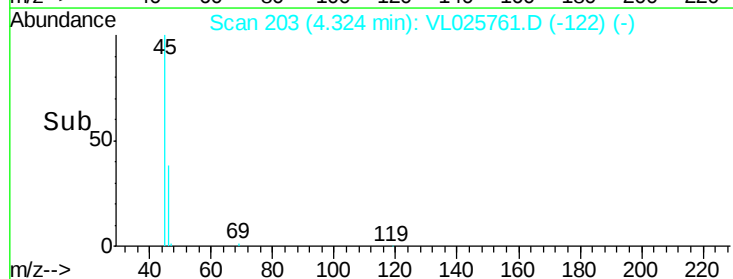
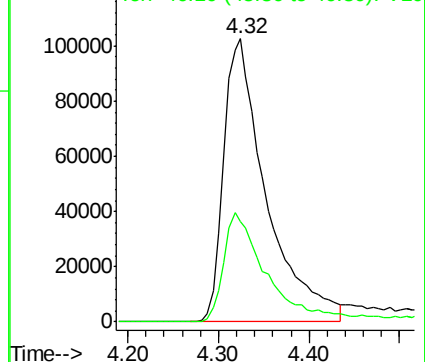
45 100

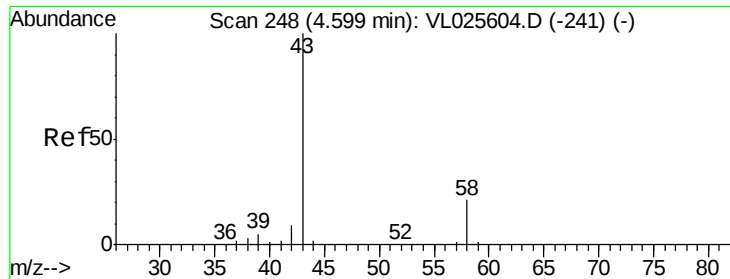
46 41.3 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 15.90 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

ClientSampleId :

A-217-B

Tgt Ion: 43 Resp: 1879355

Ion Ratio Lower Upper

43 100

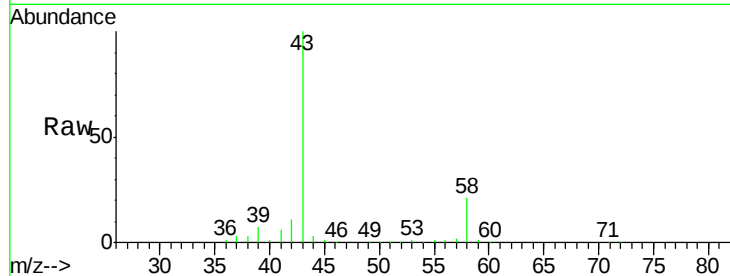
58 21.2 17.2 25.8

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1000000

800000

600000

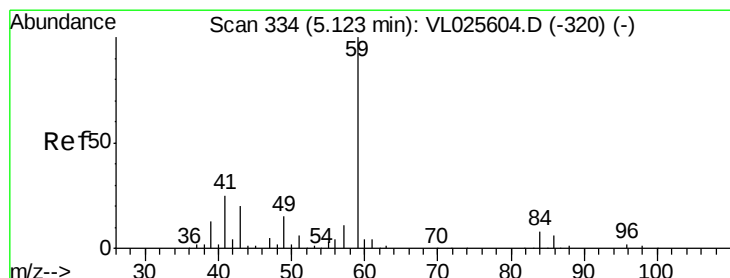
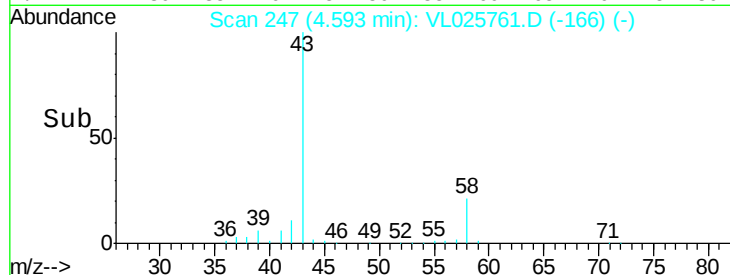
400000

200000

0

Time-->

4.50 4.60 4.70



#17

tert-Butyl alcohol

Concen: 0.44 ppbv

RT: 5.14 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL025761.D

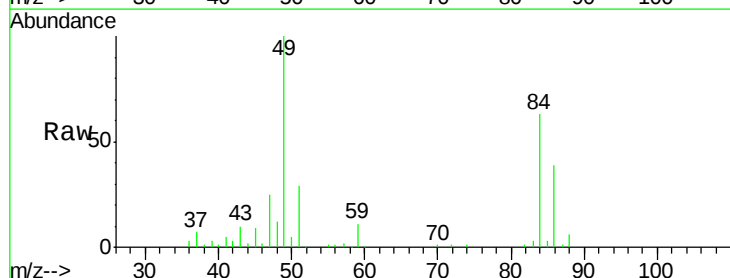
Acq: 27 Jul 2015 20:17

Tgt Ion: 59 Resp: 43826

Ion Ratio Lower Upper

59 100

57 13.1 9.4 14.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

15000

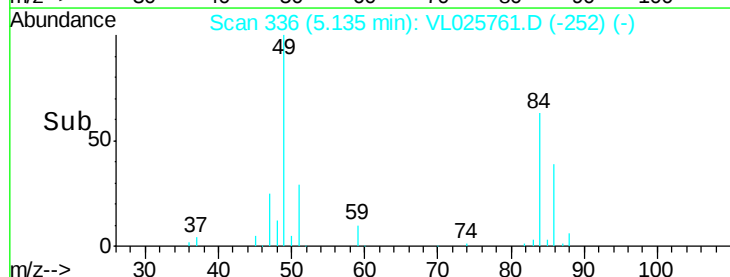
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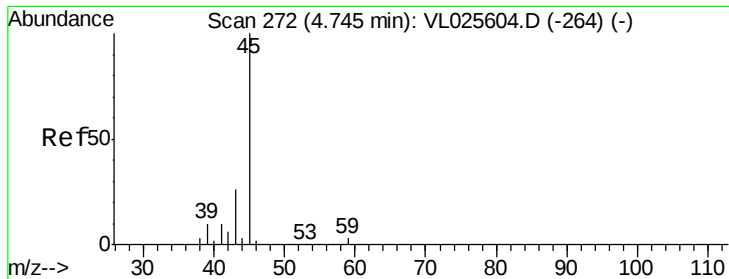
5000

0

Time-->

5.05 5.10 5.15 5.20 5.25





#19

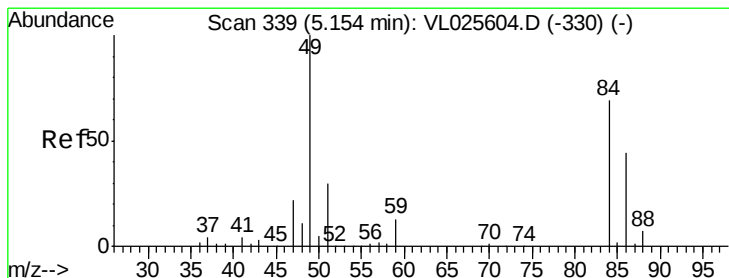
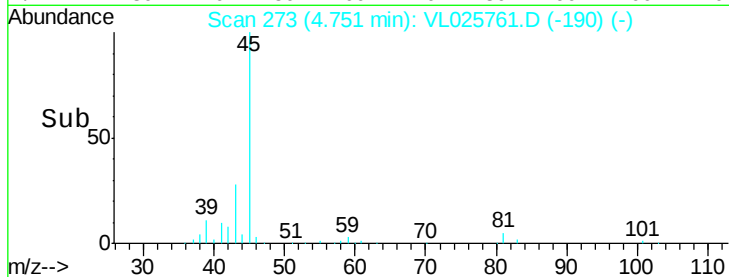
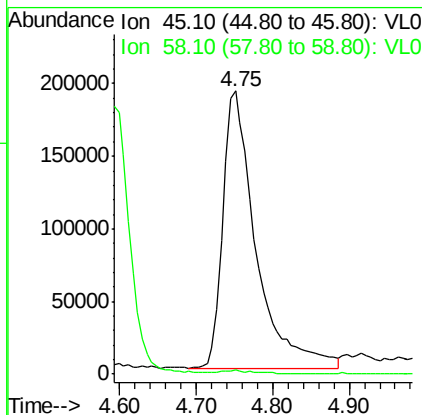
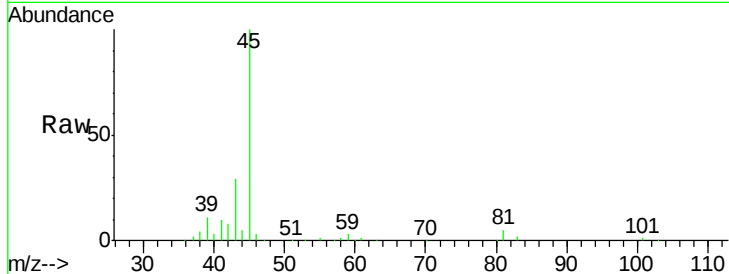
Isopropyl Alcohol
 Concen: 12.16 ppbv
 RT: 4.75 min Scan# 273
 Delta R.T. 0.01 min
 Lab File: VL025761.D
 Acq: 27 Jul 2015 20:17

Instrument :
 MSVOA_L
 ClientSampleId :
 A-217-B

Tgt Ion: 45 Resp: 573900
 Ion Ratio Lower Upper
 45 100
 58 2.1 1.1 1.7#

Manual Integrations
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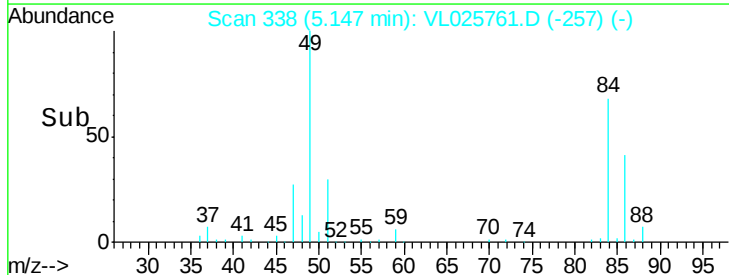
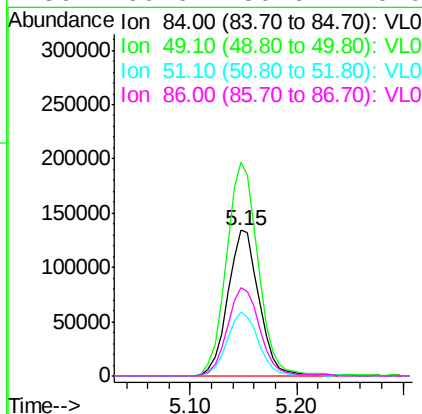
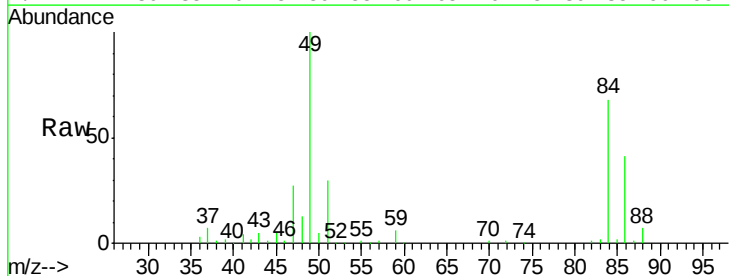
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 7/28/2015 12:57:13 PM

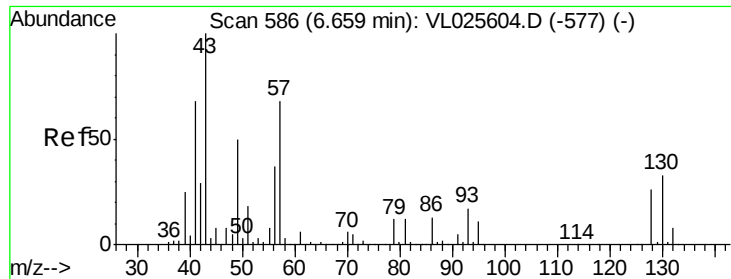


#20

Methylene Chloride
 Concen: 5.78 ppbv
 RT: 5.15 min Scan# 338
 Delta R.T. -0.01 min
 Lab File: VL025761.D
 Acq: 27 Jul 2015 20:17

Tgt Ion: 84 Resp: 277843
 Ion Ratio Lower Upper
 84 100
 49 146.9 115.2 172.8
 51 43.9 35.0 52.6
 86 60.6 50.6 76.0





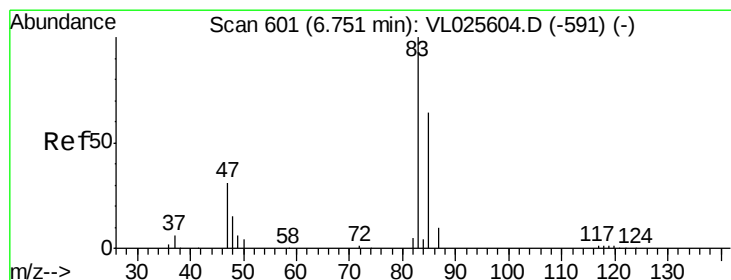
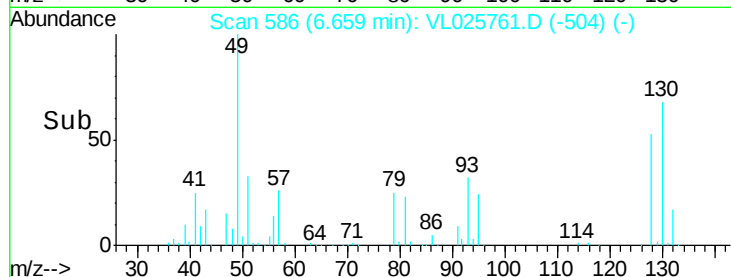
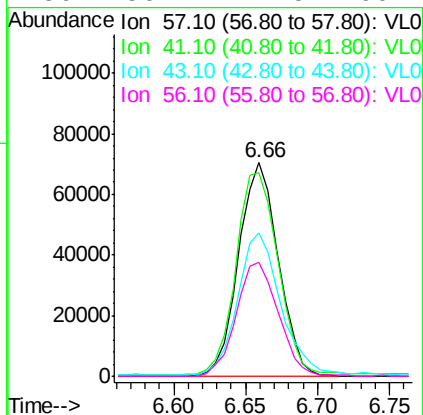
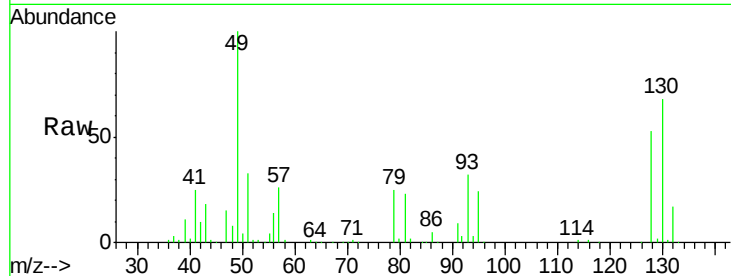
#26
Hexane
Concen: 1.60 ppbv
RT: 6.66 min Scan# 586
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampleId :
A-217-B

Tgt Ion: 57 Resp: 135002
Ion Ratio Lower Upper
57 100
41 105.3 81.4 122.2
43 73.5 171.4 257.2#
56 56.4 44.5 66.7

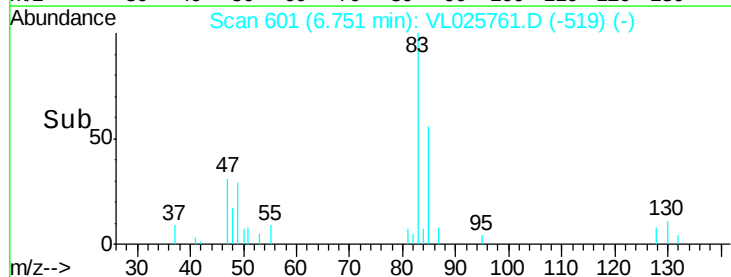
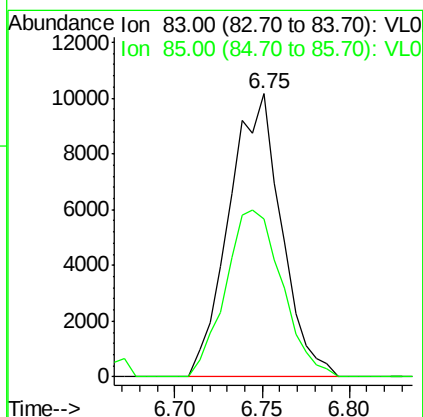
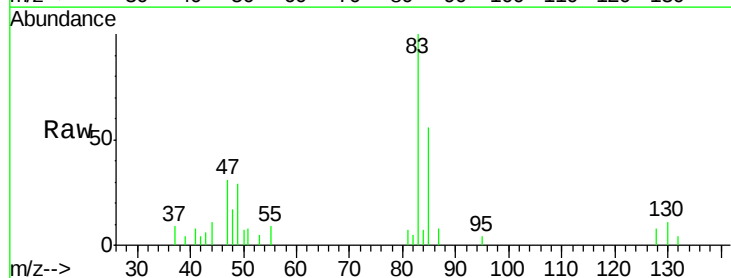
Manual Integrations
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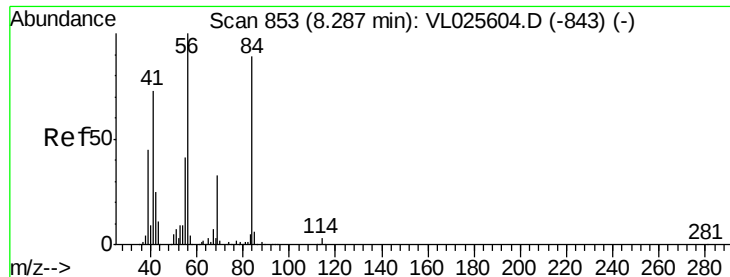
MMDadoda
7/28/2015 12:57:13 PM



#29
Chloroform
Concen: 0.13 ppbv
RT: 6.75 min Scan# 601
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion: 83 Resp: 21138
Ion Ratio Lower Upper
83 100
85 55.7 51.6 77.4





#30

Cyclohexane

Concen: 0.16 ppbv

RT: 8.31 min Scan# 856

Delta R.T. 0.02 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

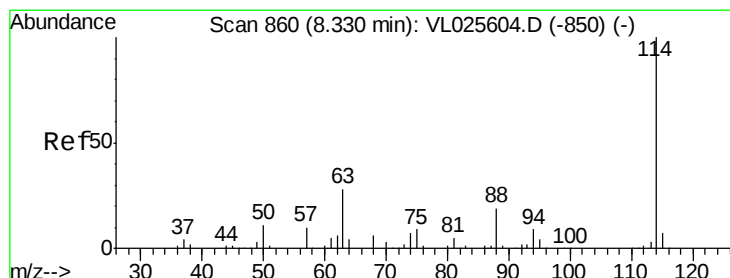
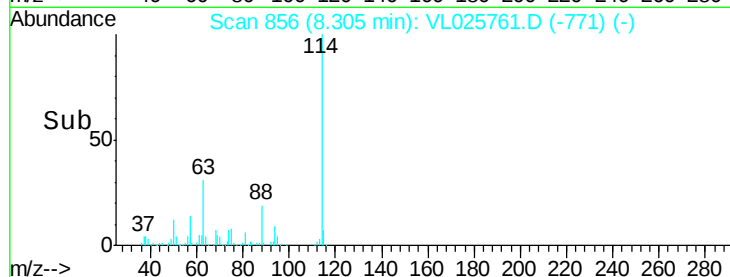
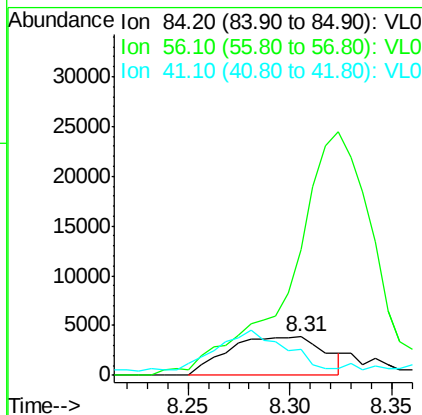
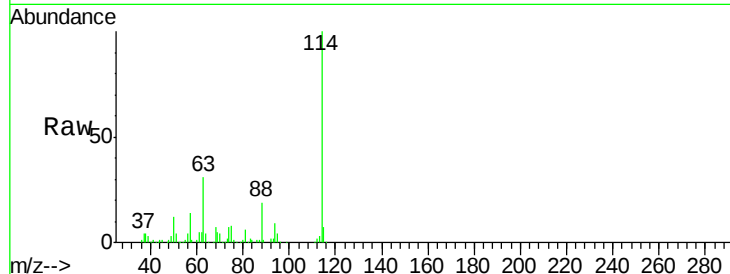
ClientSampleId :

A-217-B

Tgt Ion:	84	Resp:	12611
Ion Ratio	Lower	Upper	
84	100		
56	0.0	97.5	146.3#
41	108.8	65.4	98.2#

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

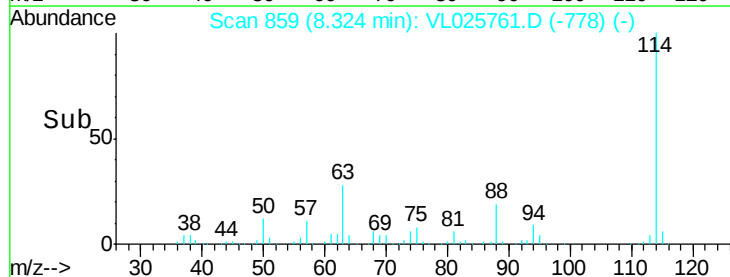
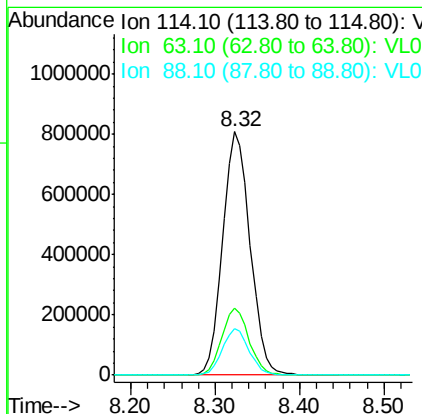
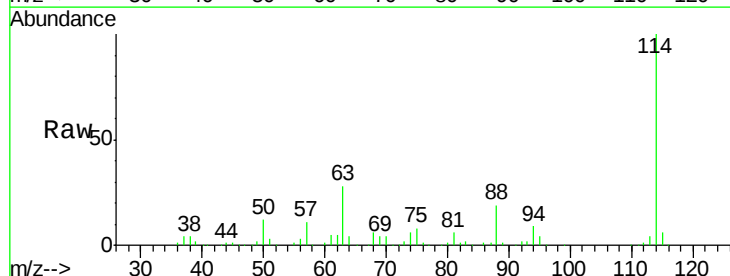
RT: 8.32 min Scan# 859

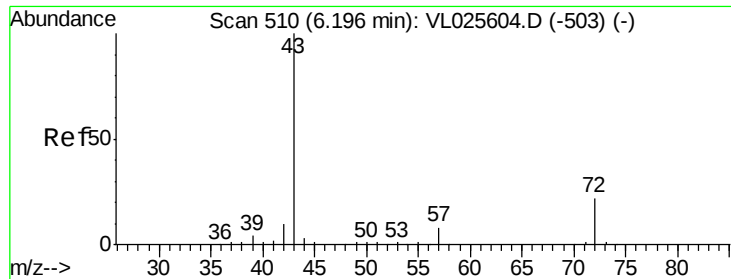
Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion:	114	Resp:	1798408
Ion Ratio	Lower	Upper	
114	100		
63	27.5	22.4	33.6
88	18.6	15.0	22.4





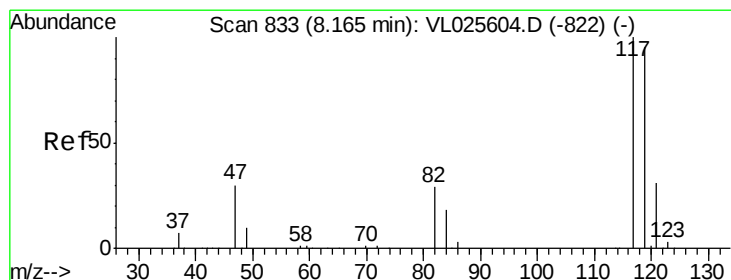
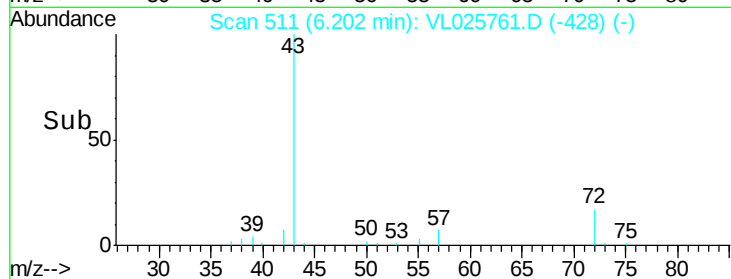
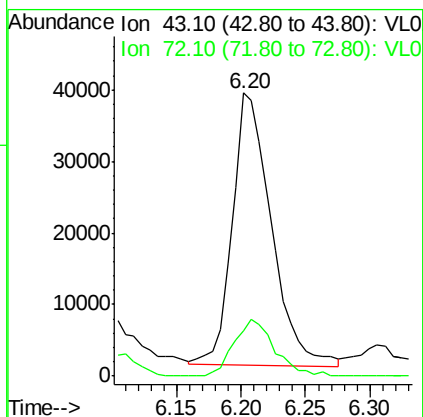
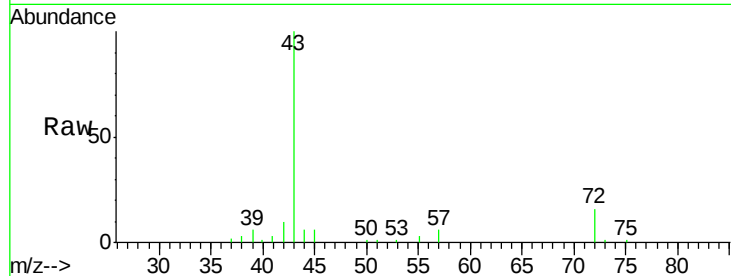
#34
2-Butanone
Concen: 0.79 ppbv
RT: 6.20 min Scan# 511
Delta R.T. 0.01 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampled :
A-217-B

Tgt Ion: 43 Resp: 80259
Ion Ratio Lower Upper
43 100
72 21.7 18.6 28.0

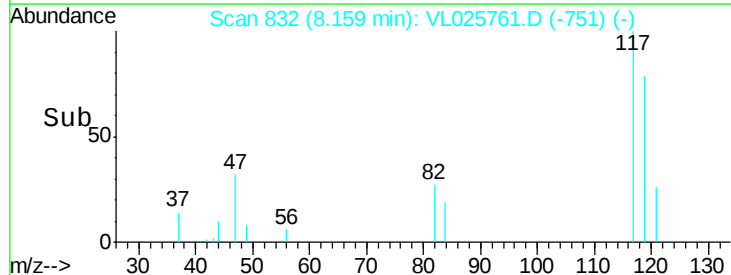
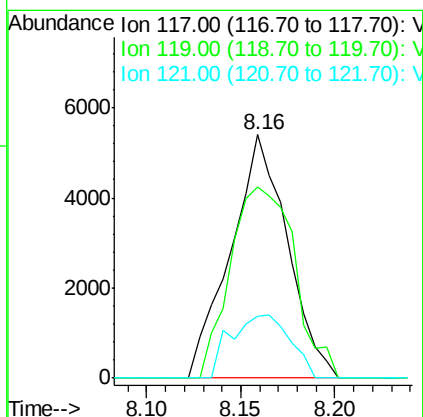
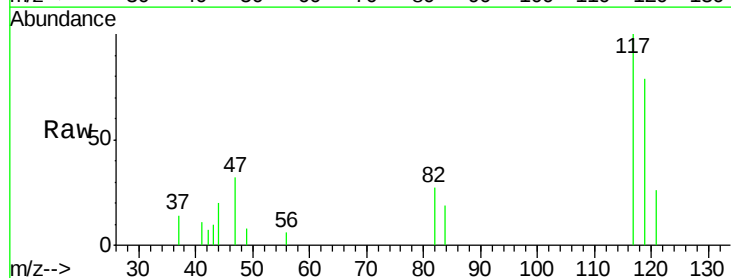
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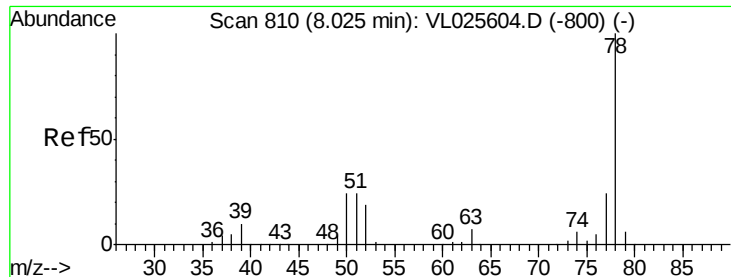
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.06 ppbv
RT: 8.16 min Scan# 832
Delta R.T. -0.01 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion: 117 Resp: 11276
Ion Ratio Lower Upper
117 100
119 78.6 75.9 113.9
121 25.7 24.4 36.6





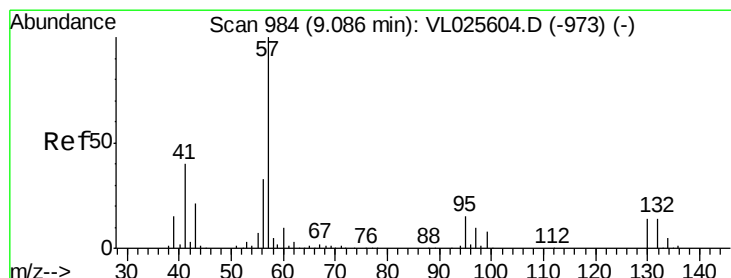
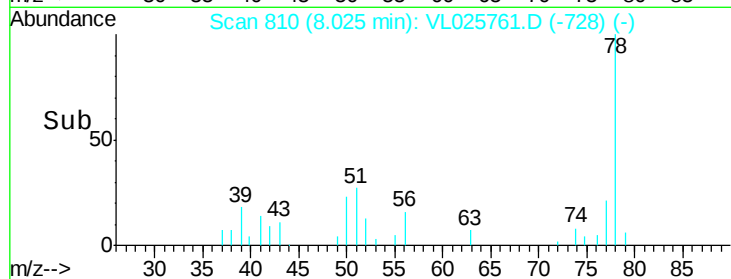
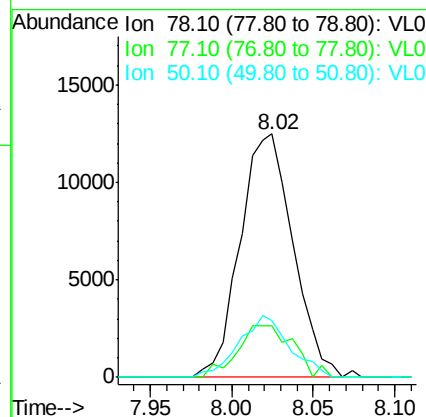
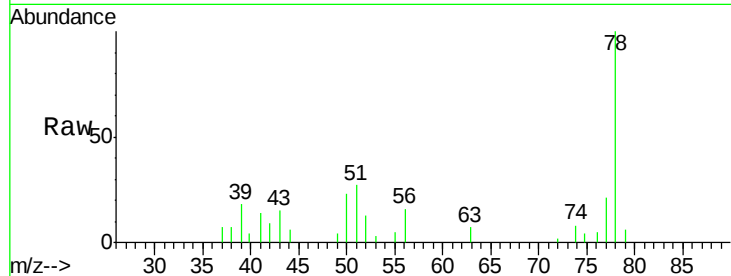
#36
Benzene
Concen: 0.16 ppbv
RT: 8.02 min Scan# 810
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampleId :
A-217-B

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.3	19.0	28.4
50	23.0	19.2	28.8

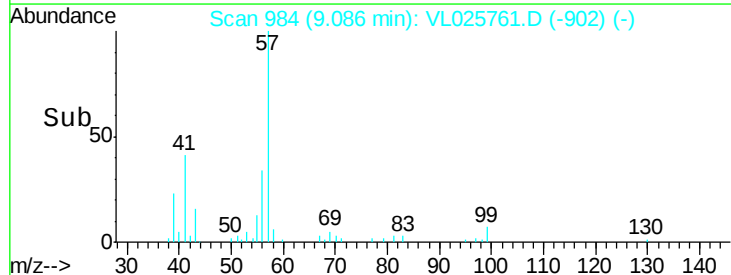
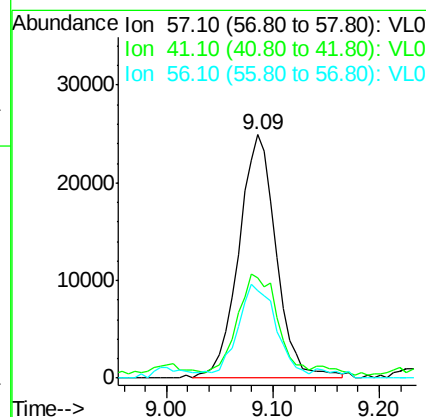
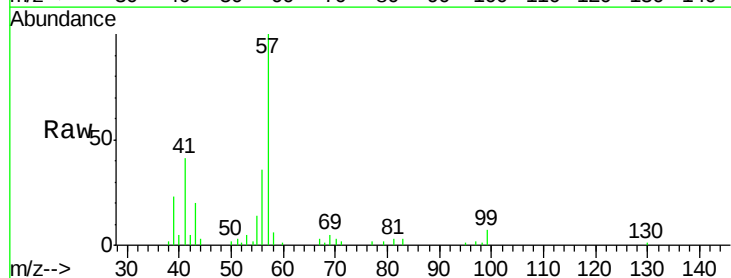
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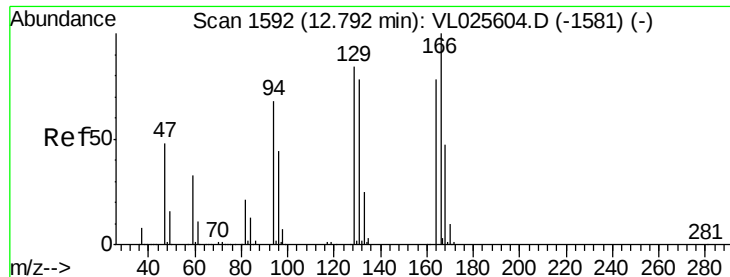
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.21 ppbv
RT: 9.09 min Scan# 984
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion	Ratio	Lower	Upper
57	100		
41	51.8	31.2	46.8#
56	46.7	25.4	38.2#





#52

Tetrachloroethene

Concen: 3.62 ppbv

RT: 12.79 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

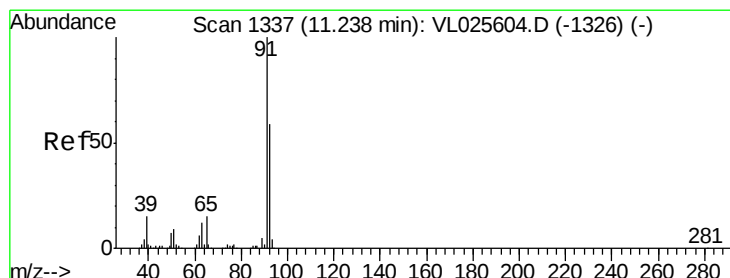
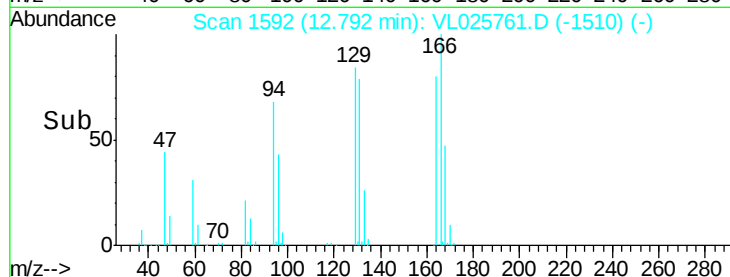
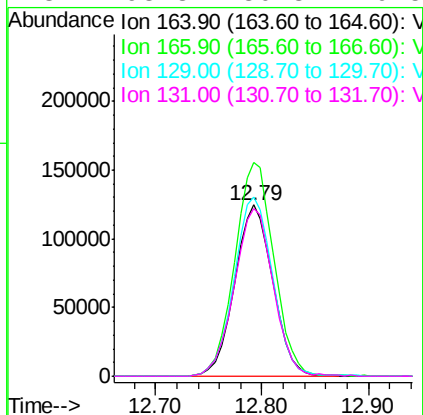
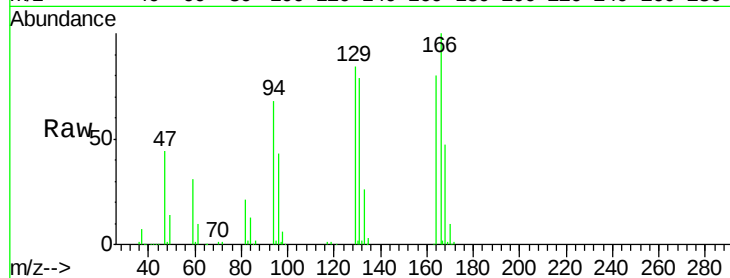
ClientSampleId :

A-217-B

Tgt Ion:	164	Resp:	312965
Ion Ratio	Lower	Upper	
164	100		
166	124.9	102.3	153.5
129	104.7	86.2	129.4
131	98.3	80.3	120.5

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#53

Toluene

Concen: 0.87 ppbv

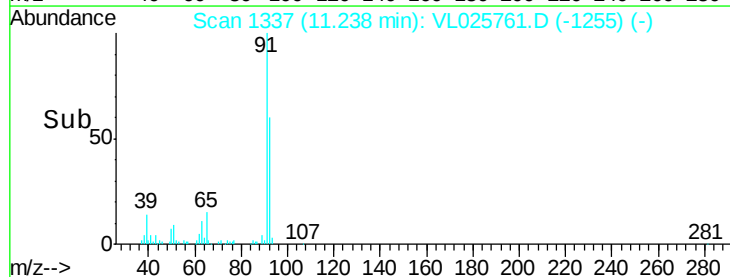
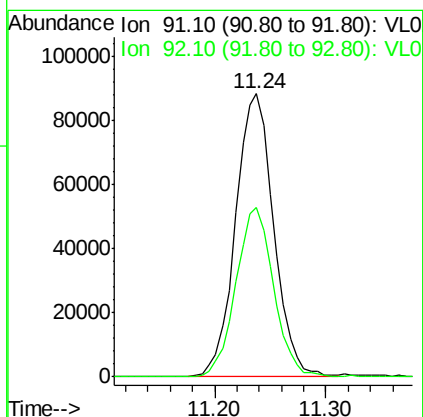
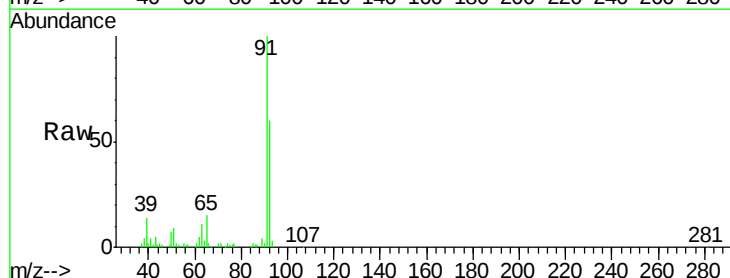
RT: 11.24 min Scan# 1337

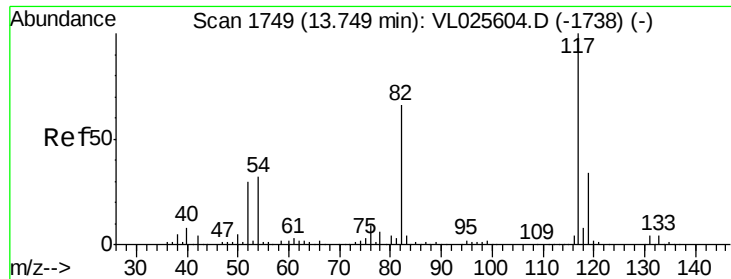
Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion:	91	Resp:	209696
Ion Ratio	Lower	Upper	
91	100		
92	59.4	48.2	72.2





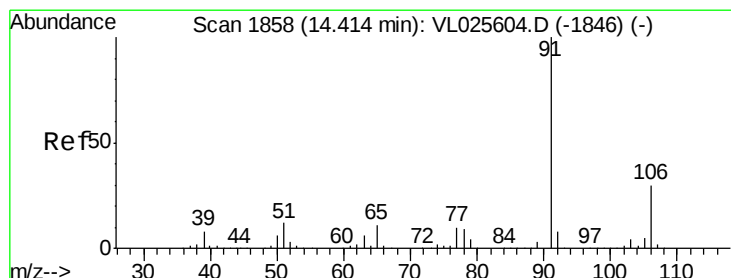
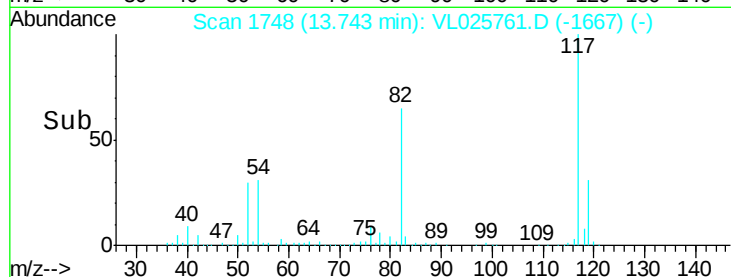
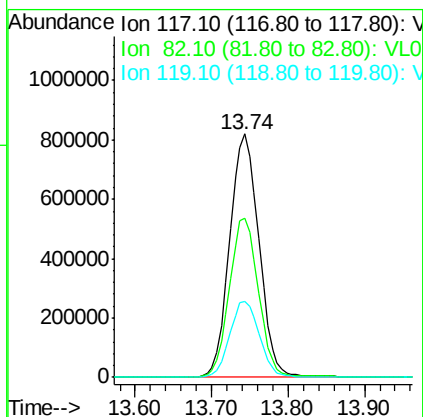
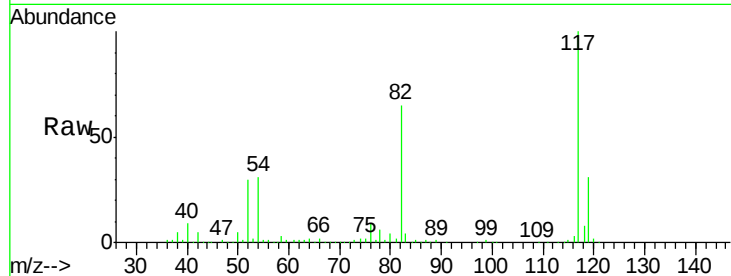
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.74 min Scan# 1748
Delta R.T. -0.01 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampleId :
A-217-B

Tgt Ion: 117 Resp: 2182865
Ion Ratio Lower Upper
117 100
82 65.8 50.5 75.7
119 32.1 45.1 67.7#

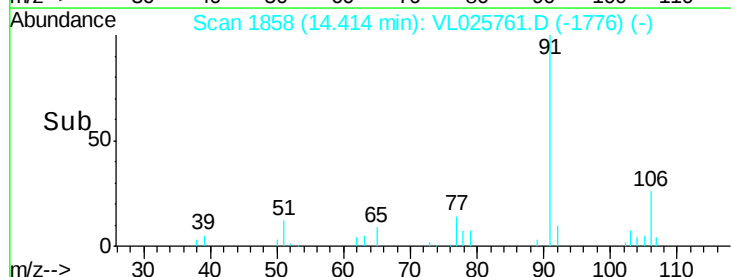
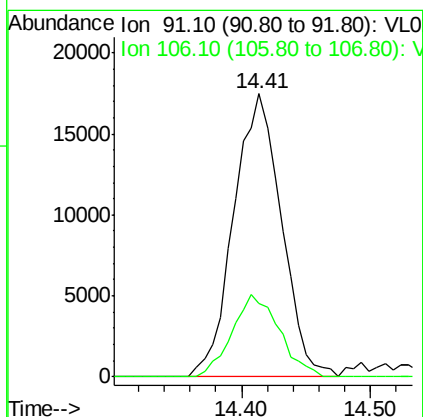
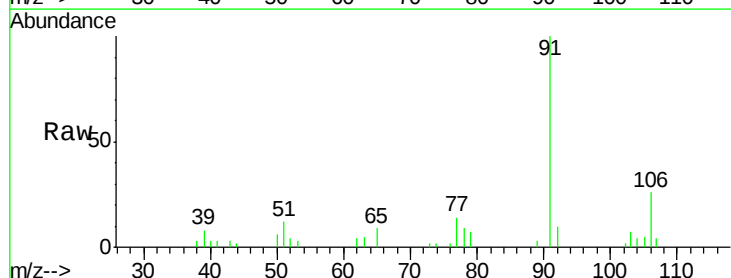
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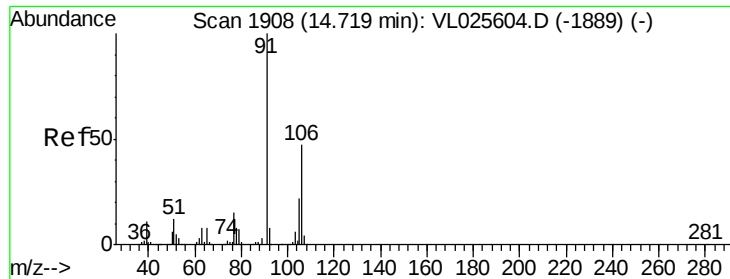
MMDadoda
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#58
Ethyl Benzene
Concen: 0.12 ppbv
RT: 14.41 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion: 91 Resp: 44985
Ion Ratio Lower Upper
91 100
106 26.0 24.2 36.2





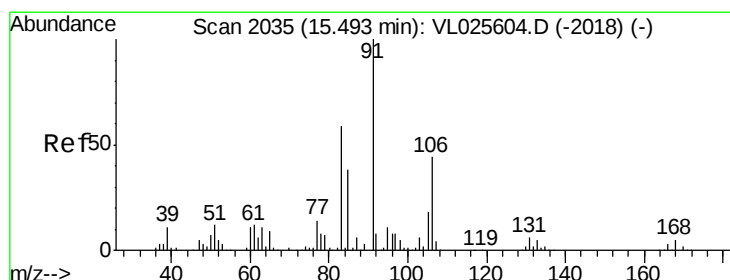
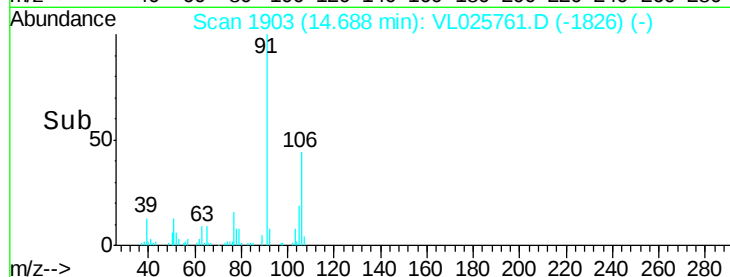
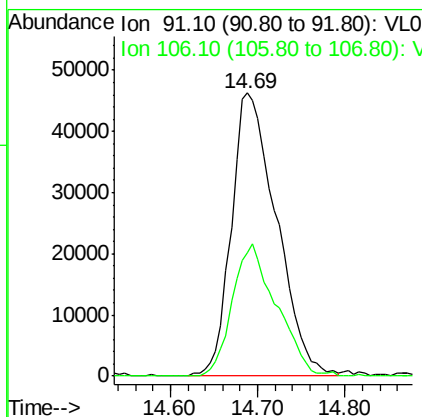
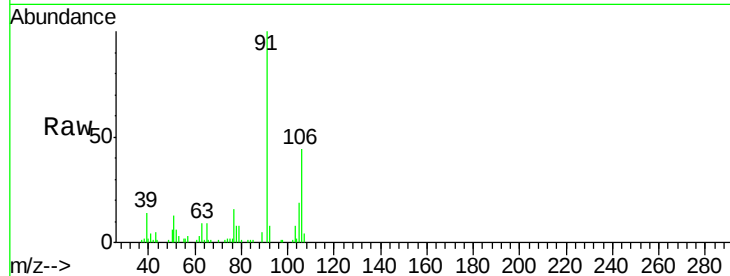
#59
m/p-Xylene
Concen: 0.52 ppbv
RT: 14.69 min Scan# 1903
Delta R.T. -0.03 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampleId :
A-217-B

Tgt Ion: 91 Resp: 166021
Ion Ratio Lower Upper
91 100
106 45.7 37.9 56.9

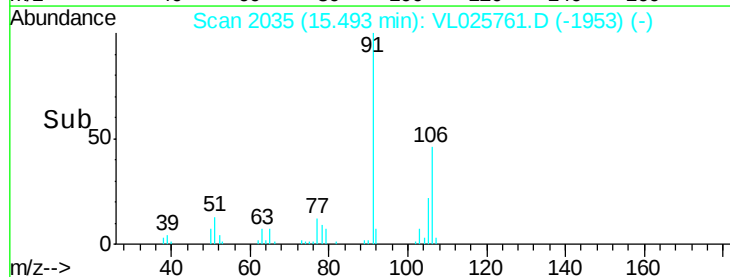
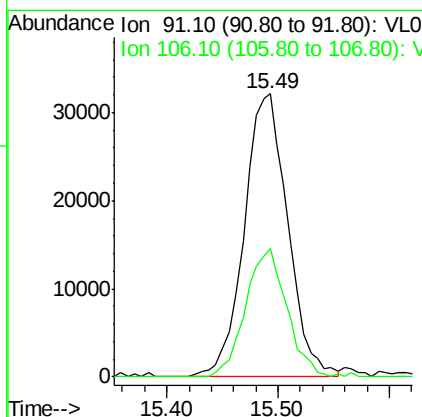
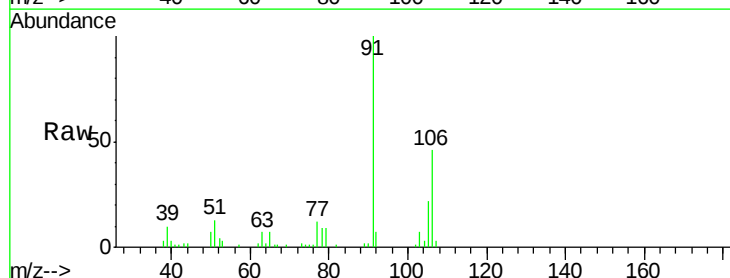
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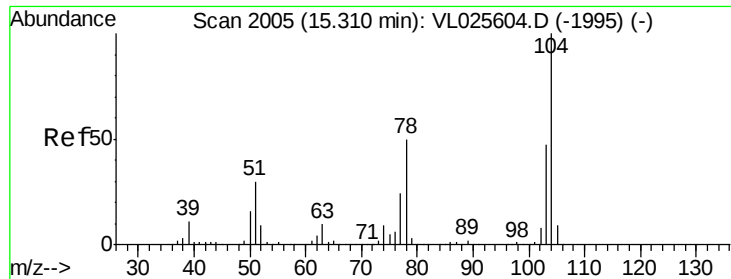
MMDadoda
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#60
o-Xylene
Concen: 0.26 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion: 91 Resp: 87452
Ion Ratio Lower Upper
91 100
106 43.1 22.1 66.1





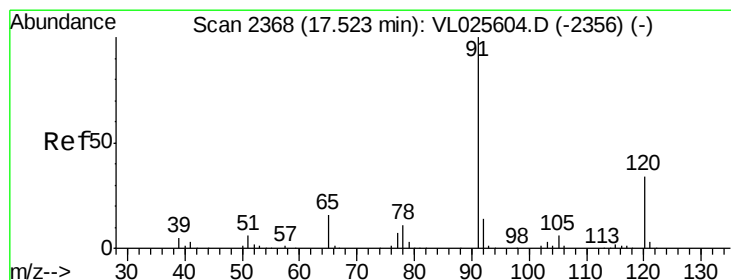
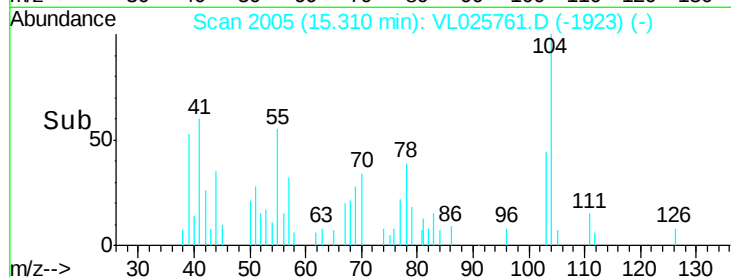
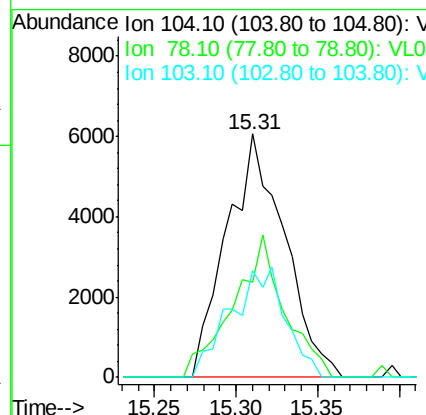
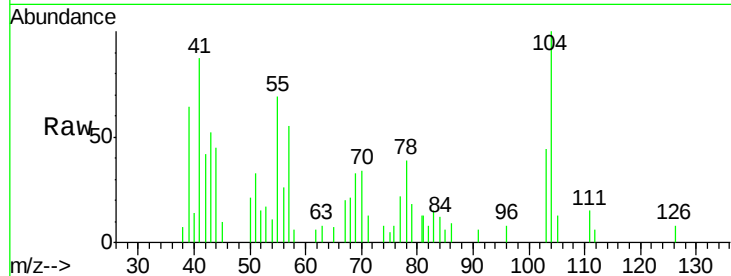
#61
Styrene
Concen: 0.12 ppbv
RT: 15.31 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Instrument :
MSVOA_L
ClientSampled :
A-217-B

Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.8	40.2	60.4
103	43.2	37.4	56.2

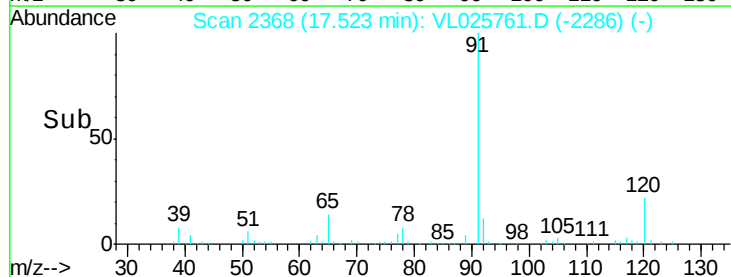
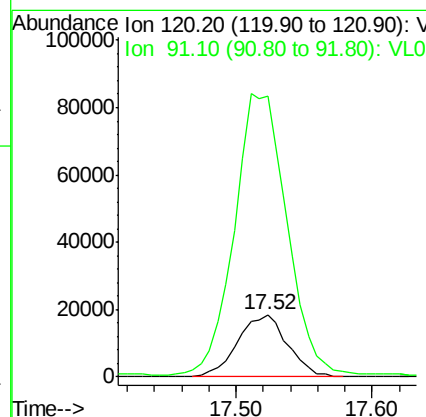
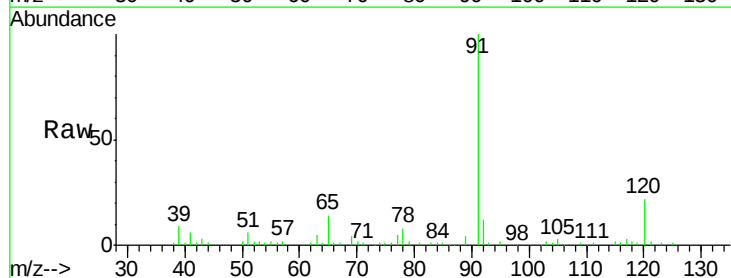
Manual Integrations
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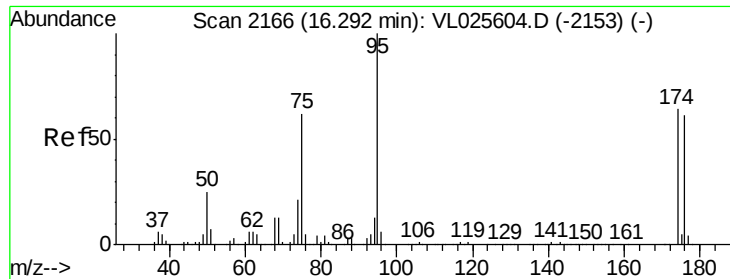
MMDadoda
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#64
n-propylbenzene
Concen: 0.39 ppbv
RT: 17.52 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VL025761.D
Acq: 27 Jul 2015 20:17

Tgt Ion	Ratio	Lower	Upper
120	100		
91	485.1	370.5	555.7





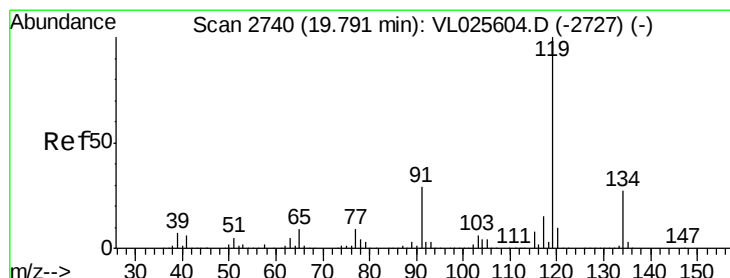
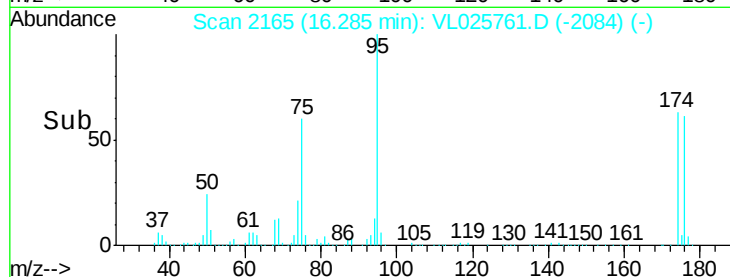
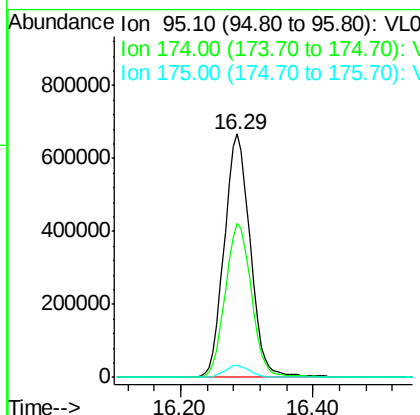
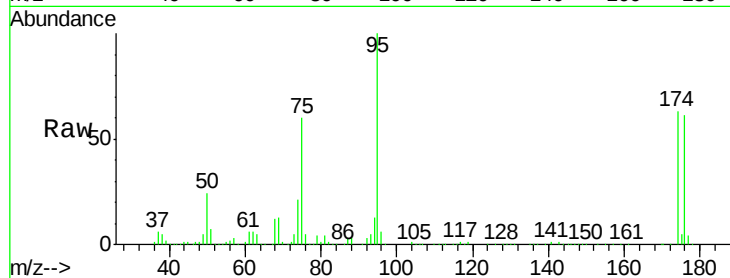
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.87 ppbv
 RT: 16.29 min Scan# 2165
 Delta R.T. -0.01 min
 Lab File: VL025761.D
 Acq: 27 Jul 2015 20:17

Instrument :
 MSVOA_L
 ClientSampleID :
 A-217-B

Tgt Ion: 95 Resp: 1817633
 Ion Ratio Lower Upper
 95 100
 174 64.1 52.0 78.0
 175 4.9 3.9 5.9

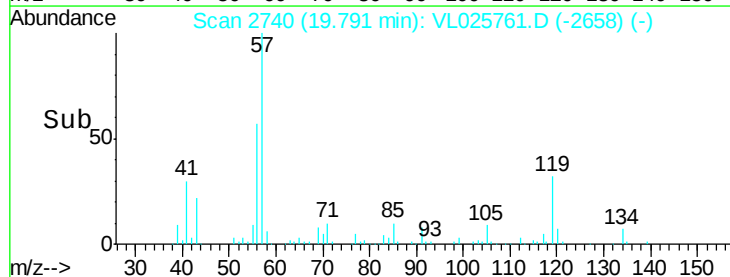
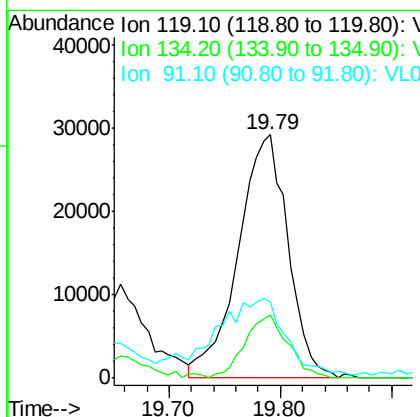
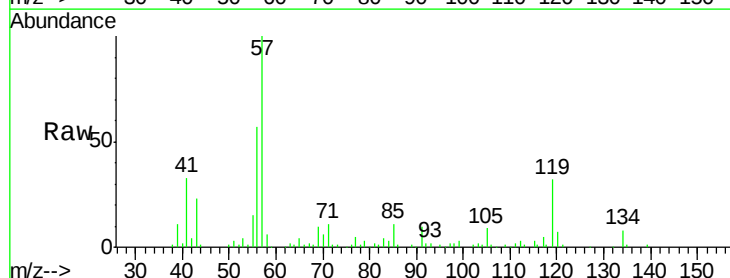
Manual Integrations
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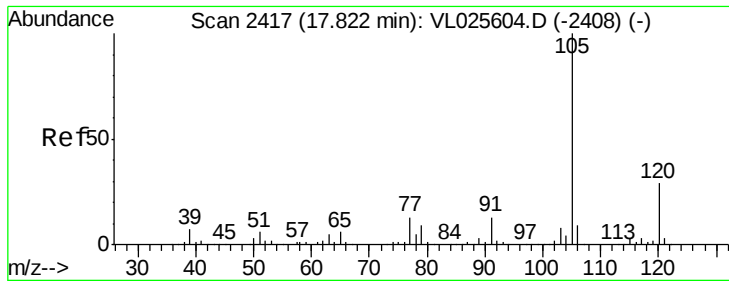
MMDadoda
 7/28/2015 12:57:13 PM



#69
 p-Isopropyltoluene
 Concen: 0.18 ppbv
 RT: 19.79 min Scan# 2740
 Delta R.T. -0.00 min
 Lab File: VL025761.D
 Acq: 27 Jul 2015 20:17

Tgt Ion: 119 Resp: 90882
 Ion Ratio Lower Upper
 119 100
 134 22.7 20.7 31.1
 91 44.3 22.6 34.0#





#72

4-Ethyltoluene

Concen: 0.86 ppbv

RT: 17.82 min Scan# 2417

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA_L

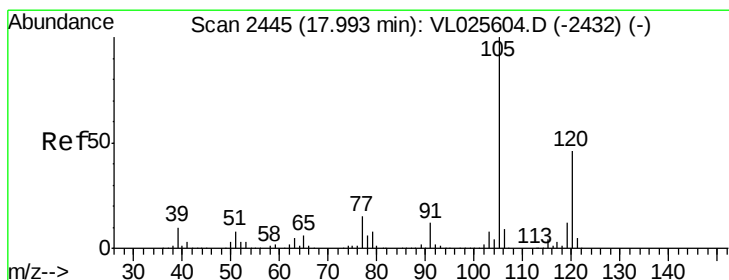
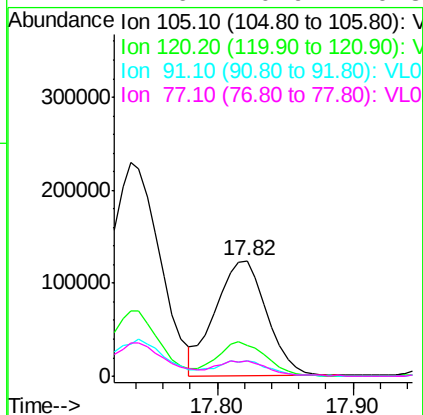
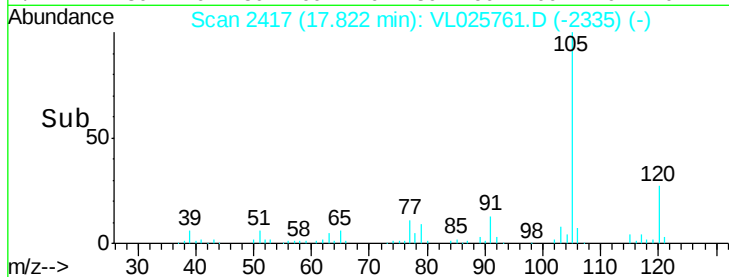
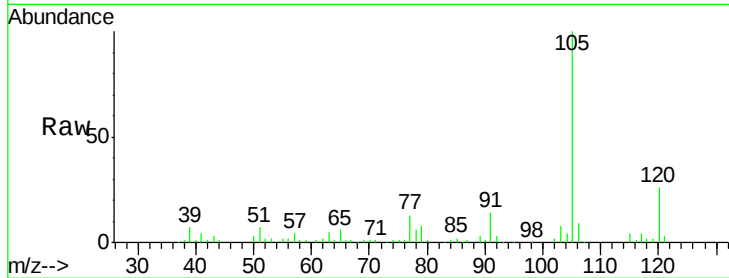
ClientSampleId :

A-217-B

Tgt Ion:	105	Resp:	325367
Ion Ratio	Lower	Upper	
105	100		
120	26.8	23.9	35.9
91	13.1	10.3	15.5
77	12.6	10.9	16.3

Manual Integrations
APPROVED

MMDadoda
7/28/2015 12:57:13 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.55 ppbv

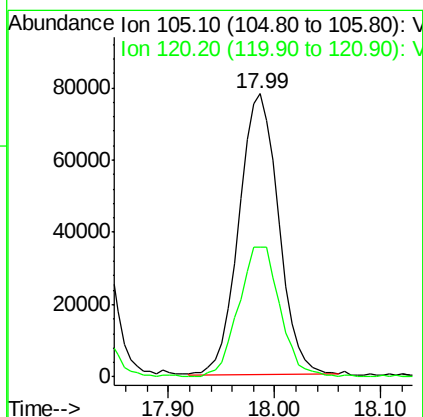
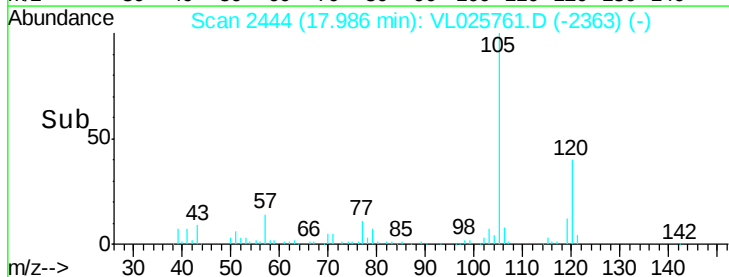
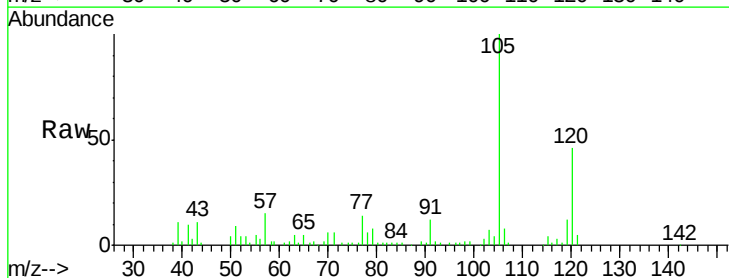
RT: 17.99 min Scan# 2444

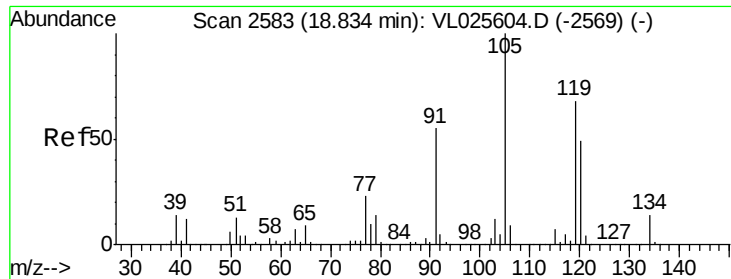
Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion:	105	Resp:	203183
Ion Ratio	Lower	Upper	
105	100		
120	46.1	37.0	55.4





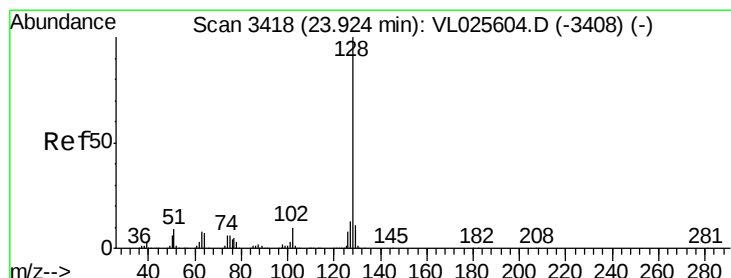
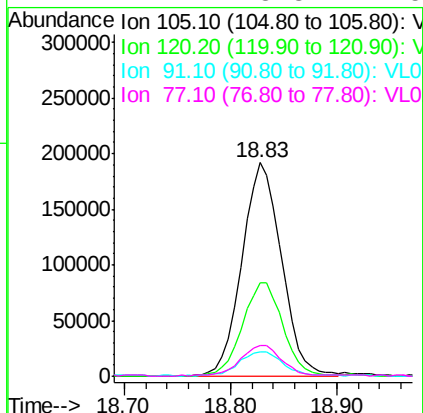
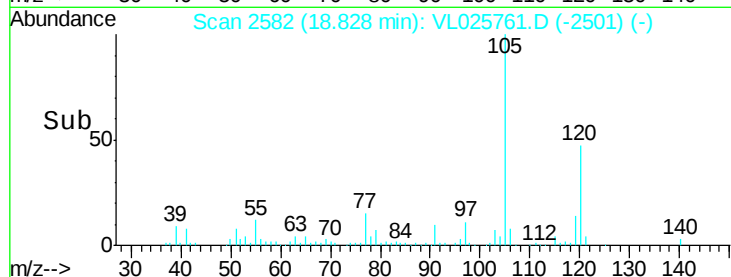
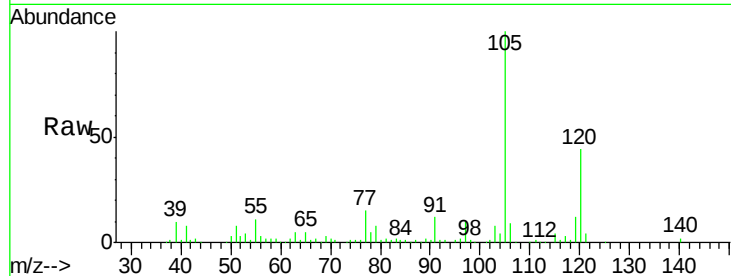
#74
 1,2,4-Trimethylbenzene
 Concen: 1.21 ppbv
 RT: 18.83 min Scan# 2582
 Delta R.T. -0.01 min
 Lab File: VL025761.D
 Acq: 27 Jul 2015 20:17

Instrument :
 MSVOA_L
 ClientSampleId :
 A-217-B

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.5	39.3	58.9
91	11.2	43.8	65.6#
77	14.4	18.3	27.5#

Manual Integrations
 APPROVED

MMDadoda
 7/28/2015 12:57:13 PM



#79
 Naphthalene
 Concen: 0.12 ppbv
 RT: 23.93 min Scan# 3419
 Delta R.T. 0.01 min
 Lab File: VL025761.D
 Acq: 27 Jul 2015 20:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.4	10.8	16.2
129	9.9	9.0	13.4

