

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032457.D
 Acq On : 5 Sep 2018 14:42
 Operator : SY/AP
 Sample : J4717-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-08DL

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:45:50 AM

Quant Time: Sep 06 15:54:42 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1688674	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	3399390	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	3297500	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2566497	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.11	85	83661	0.39	ppbv	94
9) Propene	3.06	41	372662	6.04	ppbv	94
10) Heptane	8.30	43	29217	0.13	ppbv	90
11) Trichlorofluoromethane	4.04	101	750769	3.85	ppbv	97
13) Ethanol	3.68	45	228219	11.87	ppbv	97
15) Acetone	3.93	43	2049483	13.48	ppbv	98
16) 1,3-Butadiene	3.38	39	101706m	1.42	ppbv	
17) tert-Butyl alcohol	4.40	59	165209	7.06	ppbv #	100
26) Hexane	5.82	57	125690	0.78	ppbv #	42
27) Carbon Disulfide	4.66	76	68878	0.46	ppbv	95
34) 2-Butanone	5.37	43	443303	1.96	ppbv	99
36) Benzene	7.05	78	94697	0.33	ppbv	98
50) 4-Methyl-2-Pentanone	8.94	43	58842	0.17	ppbv	93
51) 2-Hexanone	10.33	43	87616m	0.40	ppbv	
53) Toluene	10.00	91	322816	1.07	ppbv	98
58) Ethyl Benzene	12.92	91	97886	0.25	ppbv #	87
59) m/p-Xylene	13.17	91	327385m	0.93	ppbv	
60) o-Xylene	13.90	91	107219	0.31	ppbv	100
72) 4-Ethyltoluene	16.06	105	64099m	0.17	ppbv	
74) 1,2,4-Trimethylbenzene	16.98	105	139377	0.34	ppbv #	70

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

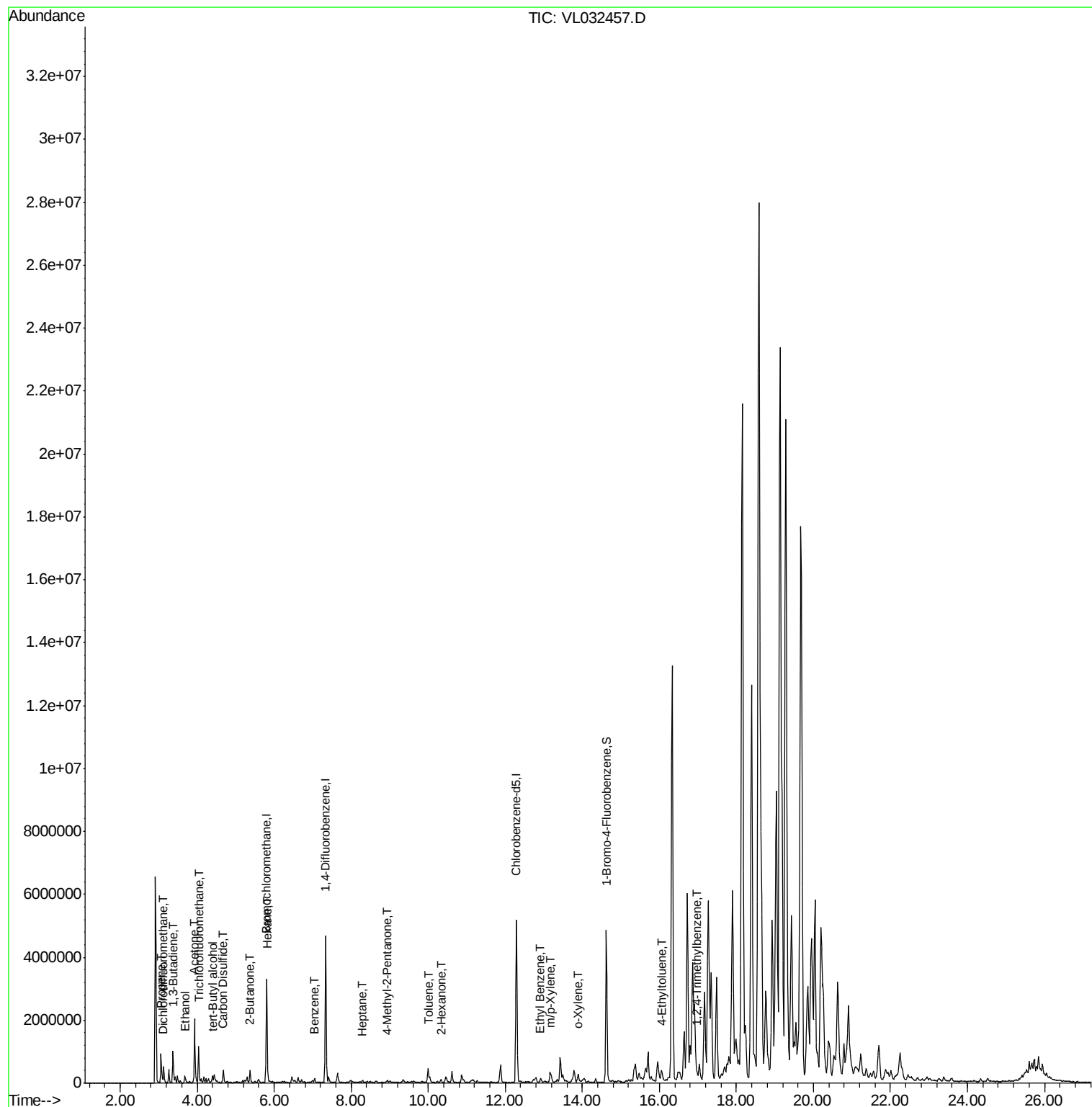
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032457.D
Acq On : 5 Sep 2018 14:42
Operator : SY/AP
Sample : J4717-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

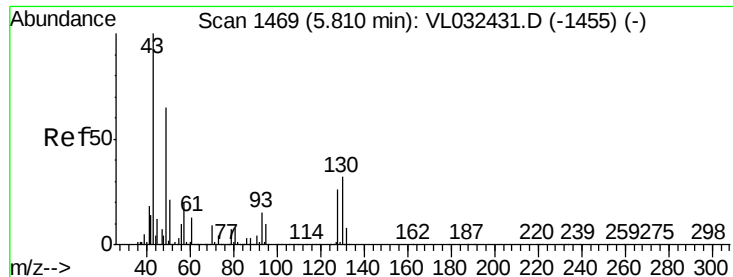
Instrument :
MSVOA_L
ClientSampleId :
VP-08DL

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Quant Time: Sep 06 15:54:42 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 1466

Delta R.T. -0.01 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

VP-08DL

Tot Ion: 49 Resp: 1688674

Ion Ratio Lower Upper

49 100

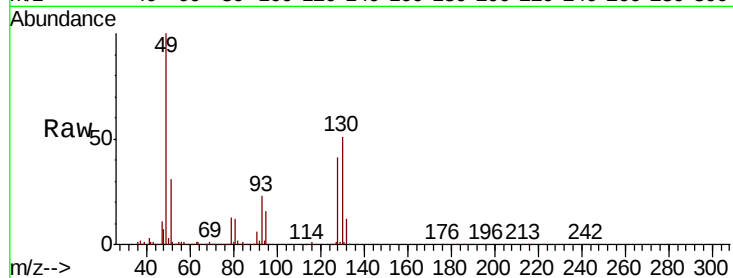
128 40.5 20.7 62.1

130 52.4 26.6 79.7

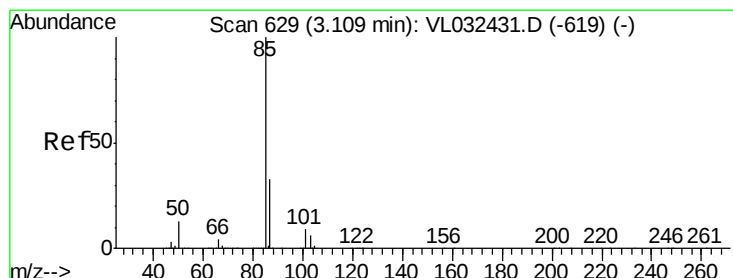
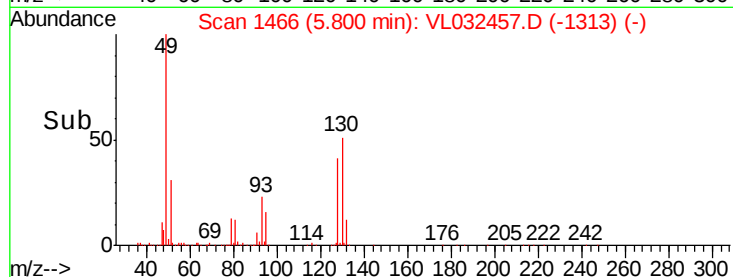
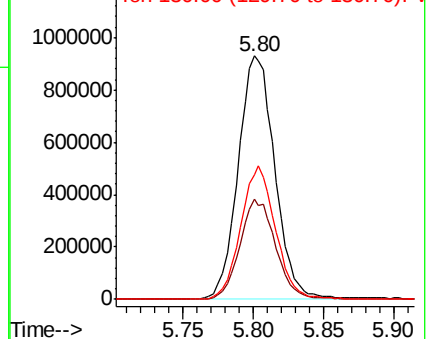
Manual Integrations
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.39 ppbv

RT: 3.11 min Scan# 628

Delta R.T. -0.00 min

Lab File: VL032457.D

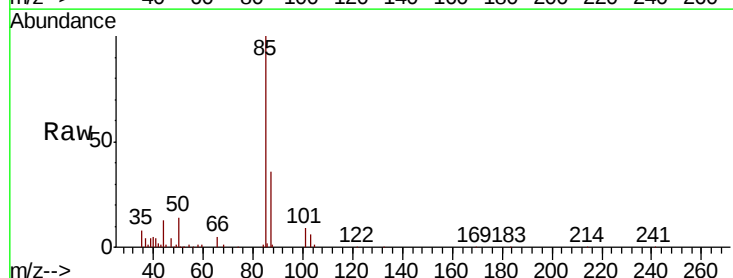
Acq: 5 Sep 2018 14:42

Tgt Ion: 85 Resp: 83661

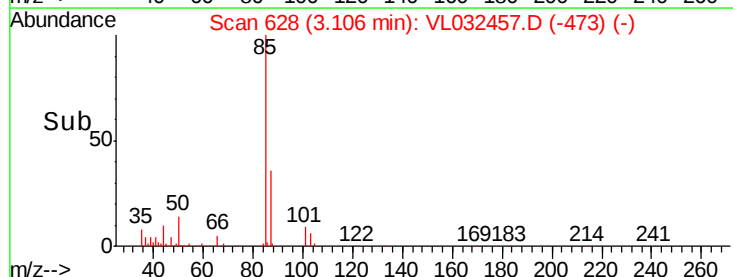
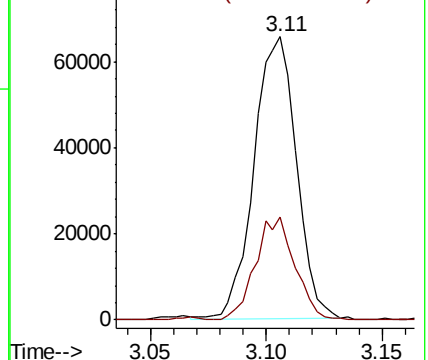
Ion Ratio Lower Upper

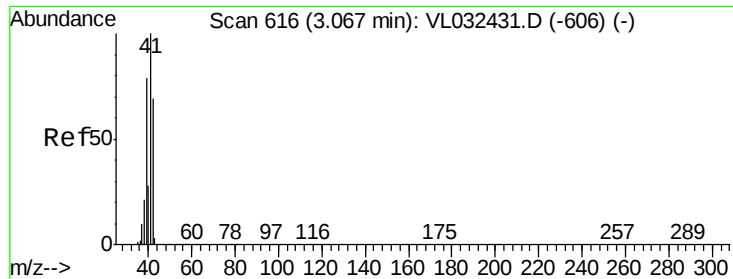
85 100

87 36.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





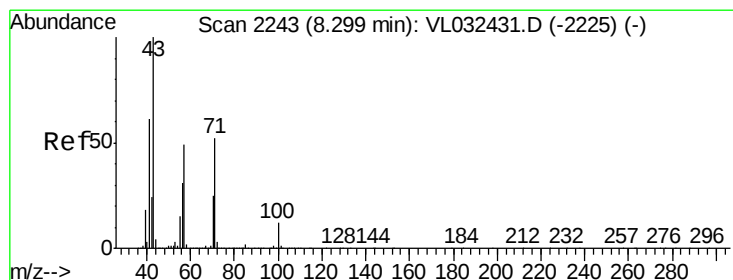
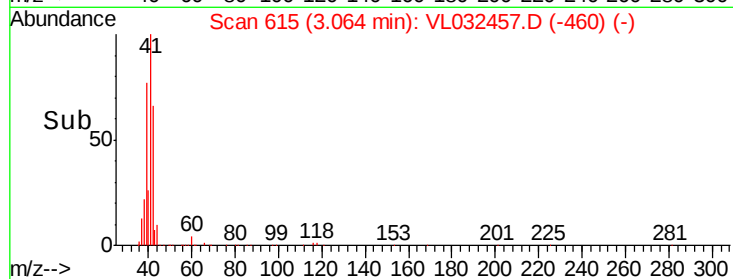
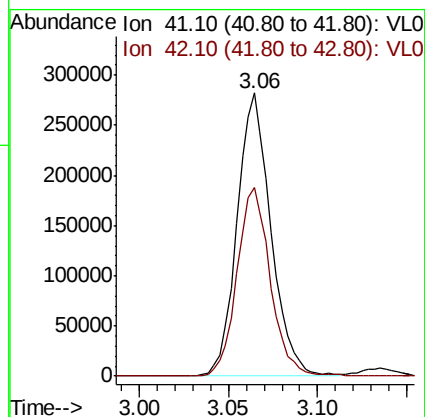
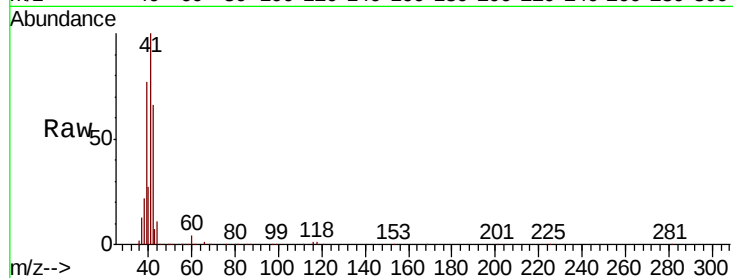
#9
 Propene
 Concen: 6.04 ppbv
 RT: 3.06 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: VL032457.D
 Acq: 5 Sep 2018 14:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-08DL

Tot Ion: 41 Resp: 372662
 Ion Ratio Lower Upper
 41 100
 42 65.7 56.6 84.8

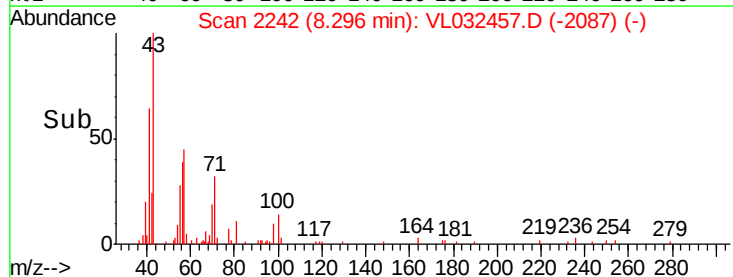
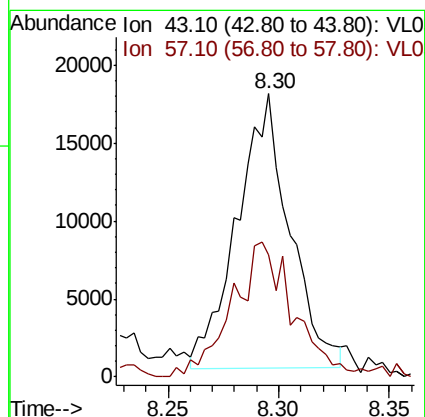
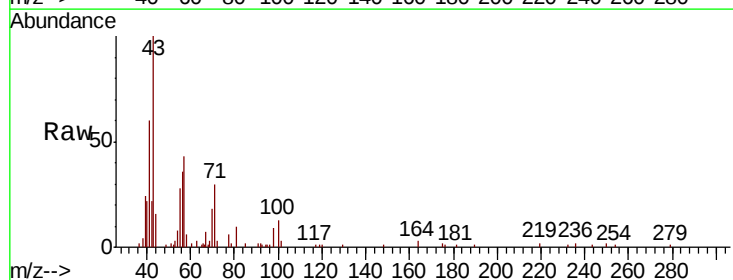
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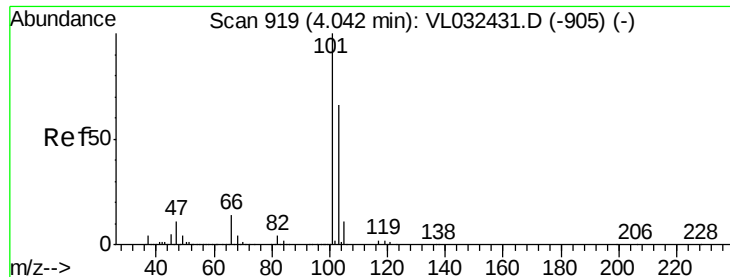
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#10
 Heptane
 Concen: 0.13 ppbv
 RT: 8.30 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: VL032457.D
 Acq: 5 Sep 2018 14:42

Tgt Ion: 43 Resp: 29217
 Ion Ratio Lower Upper
 43 100
 57 56.6 39.6 59.4





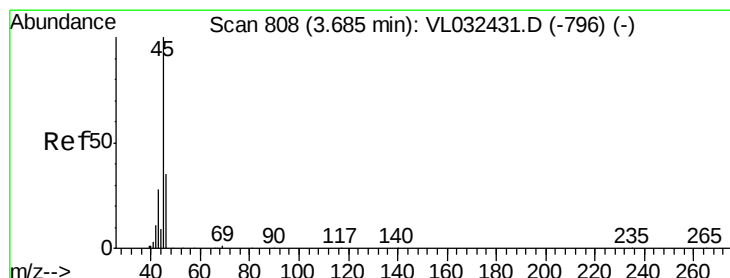
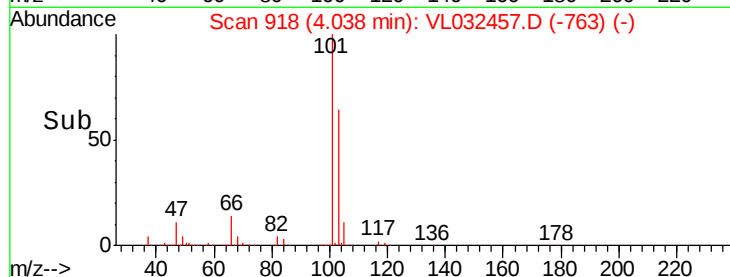
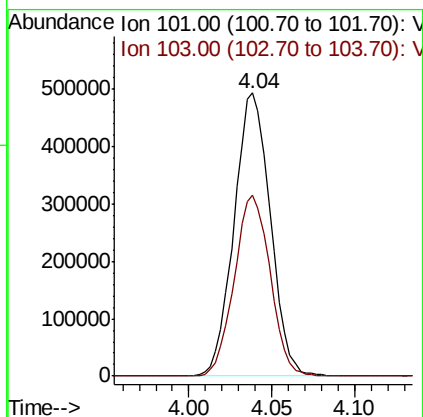
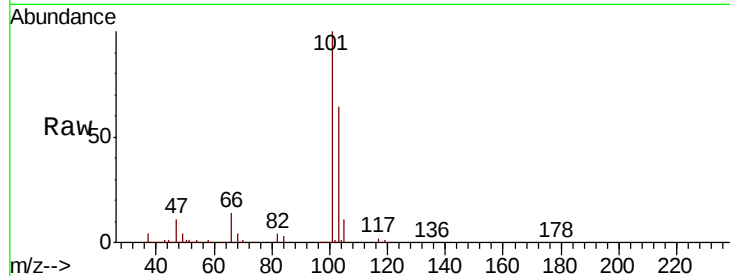
#11
Trichlorofluoromethane
Concen: 3.85 ppbv
RT: 4.04 min Scan# 918
Delta R.T. -0.00 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Instrument :
MSVOA_L
ClientSampleId :
VP-08DL

Tot Ion:101 Resp: 750769
Ion Ratio Lower Upper
101 100
103 63.9 52.8 79.2

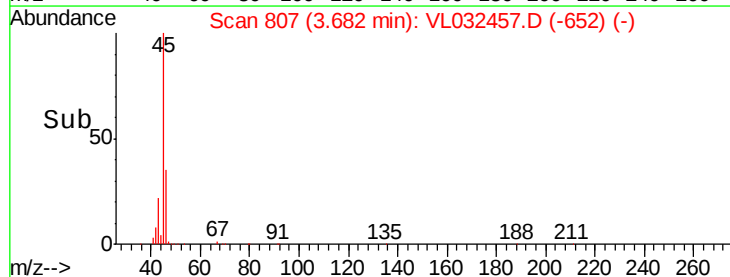
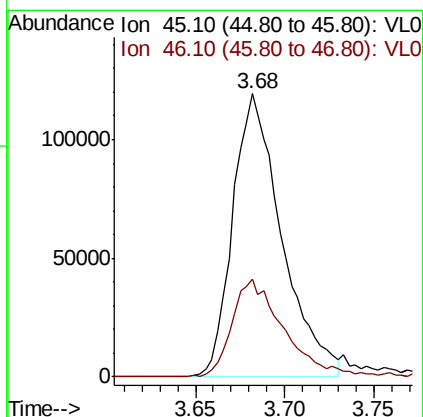
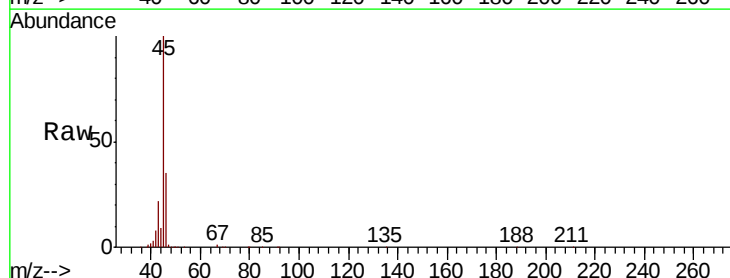
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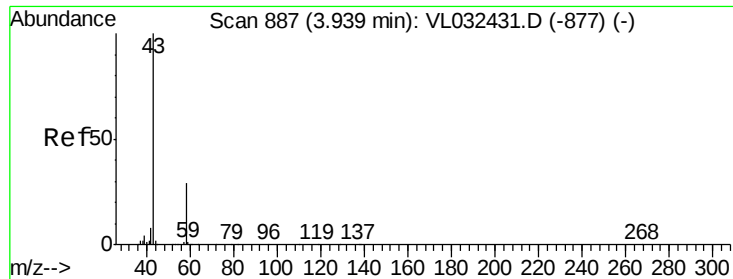
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#13
Ethanol
Concen: 11.87 ppbv
RT: 3.68 min Scan# 807
Delta R.T. -0.00 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Tgt Ion: 45 Resp: 228219
Ion Ratio Lower Upper
45 100
46 37.5 14.2 56.8





#15

Acetone

Concen: 13.48 ppbv

RT: 3.93 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Instrument :

MSVOA_L

ClientSampleId :

VP-08DL

Tot Ion: 43 Resp: 2049483

Ion Ratio Lower Upper

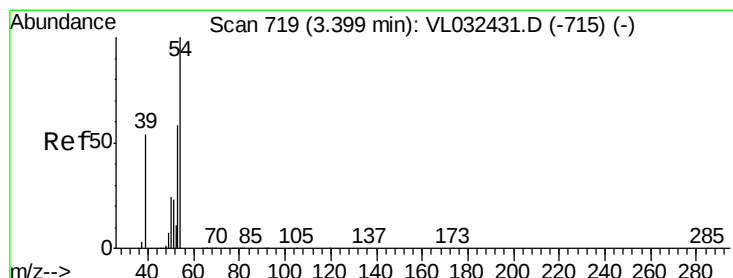
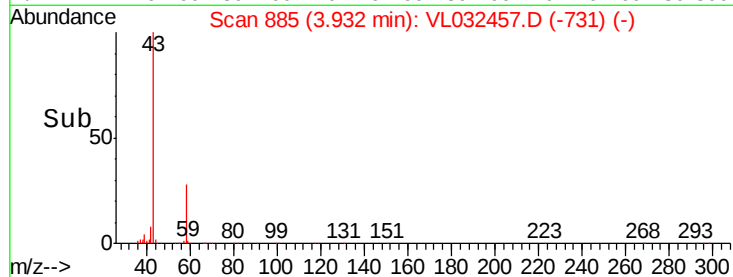
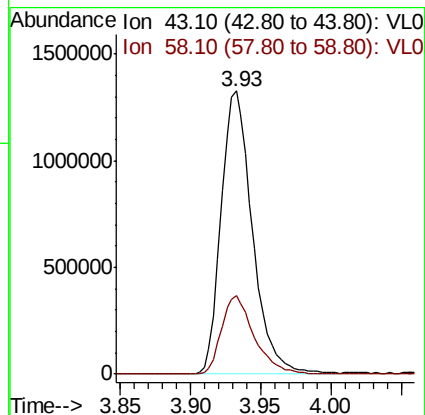
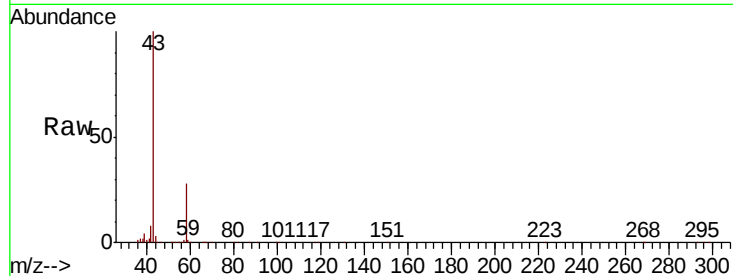
43 100

58 29.3 22.6 33.8

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#16

1,3-Butadiene

Concen: 1.42 ppbv m

RT: 3.38 min Scan# 713

Delta R.T. -0.02 min

Lab File: VL032457.D

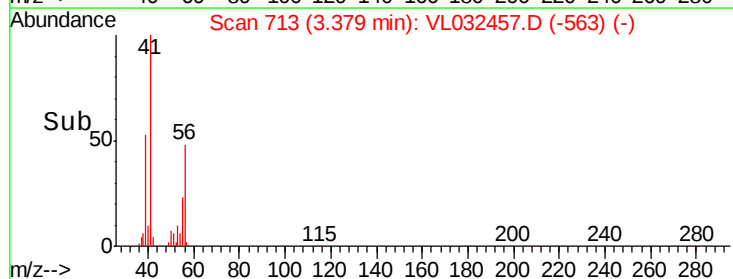
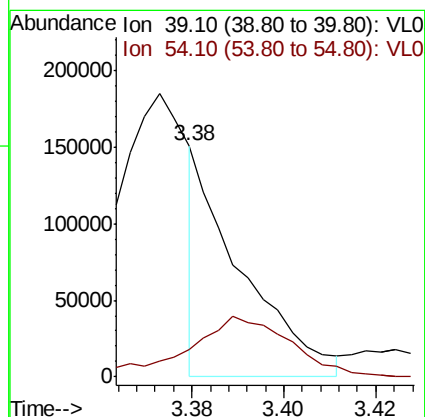
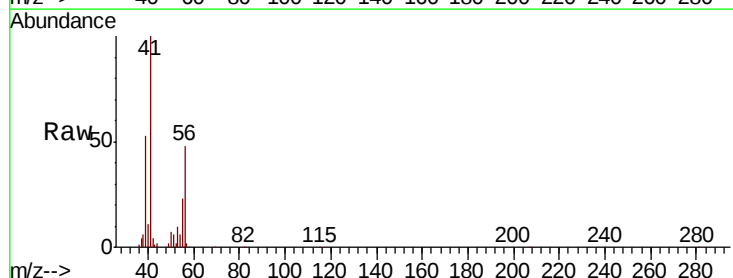
Acq: 5 Sep 2018 14:42

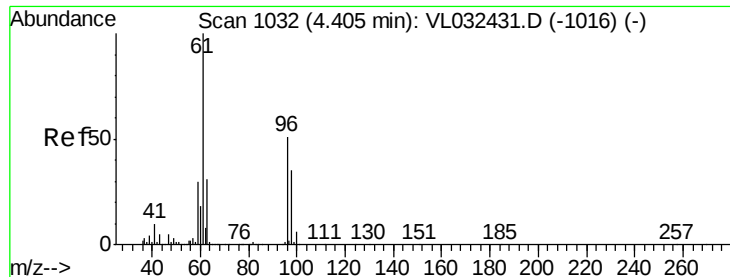
Tgt Ion: 39 Resp: 101706

Ion Ratio Lower Upper

39 100

54 61.5 80.8 121.2#





#17

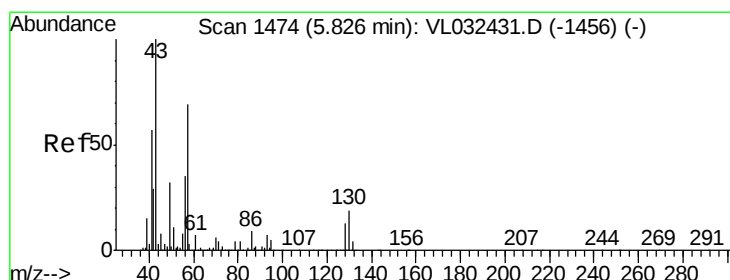
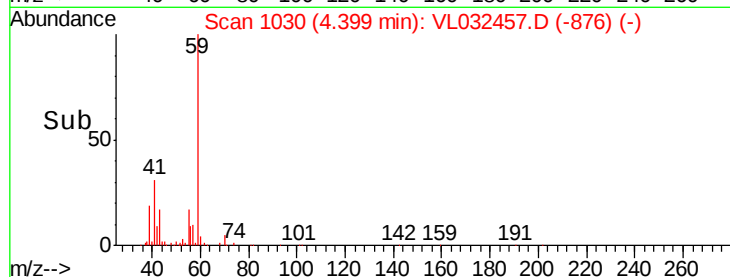
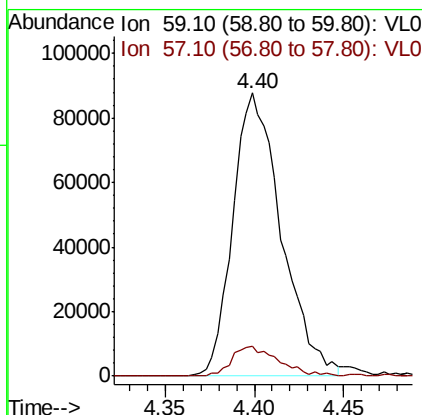
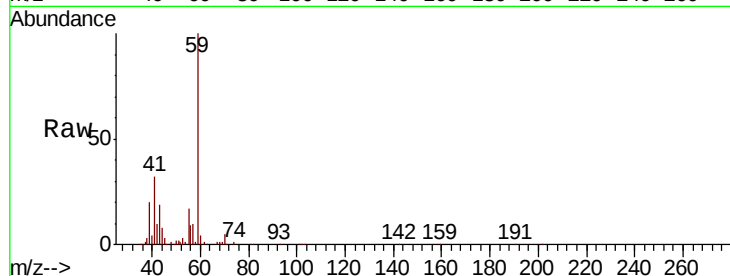
tert-Butyl alcohol
 Concen: 7.06 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: VL032457.D
 Acq: 5 Sep 2018 14:42

Instrument :
 MSVOA_L
 ClientSampleID :
 VP-08DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	0.0	0.0#

Manual Integrations
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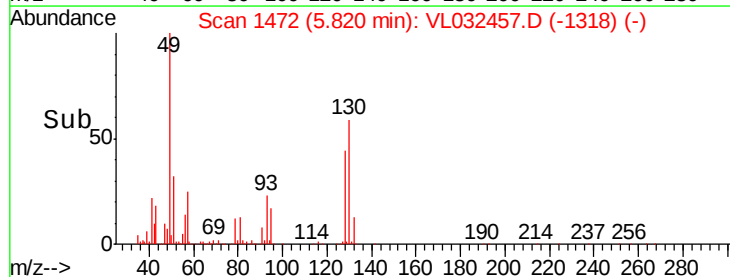
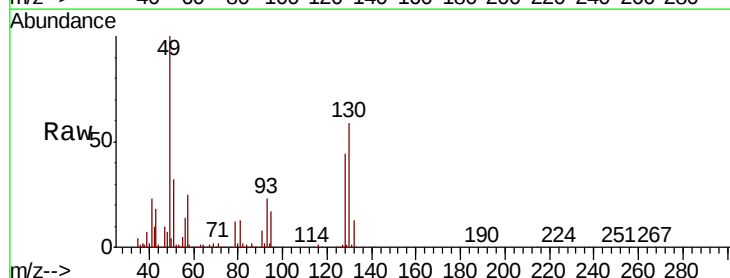
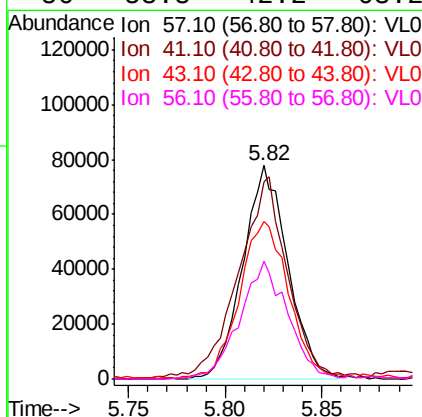
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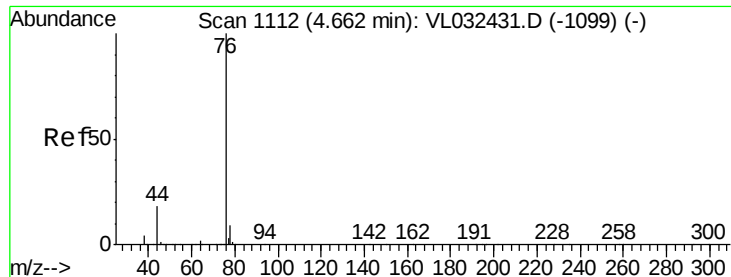


#26

Hexane
 Concen: 0.78 ppbv
 RT: 5.82 min Scan# 1472
 Delta R.T. -0.01 min
 Lab File: VL032457.D
 Acq: 5 Sep 2018 14:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	103.7	69.0	103.4#
43	80.1	172.1	258.1#
56	58.8	42.2	63.2





#27

Carbon Disulfide

Concen: 0.46 ppbv

RT: 4.66 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Instrument :

MSVOA_L

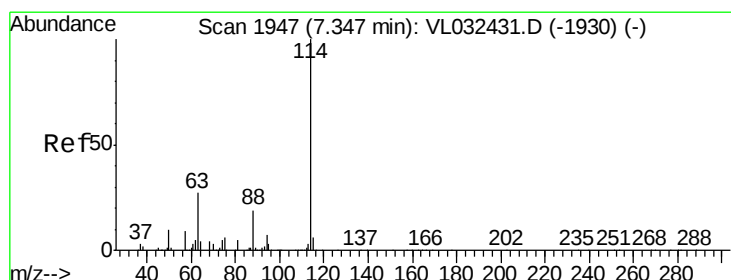
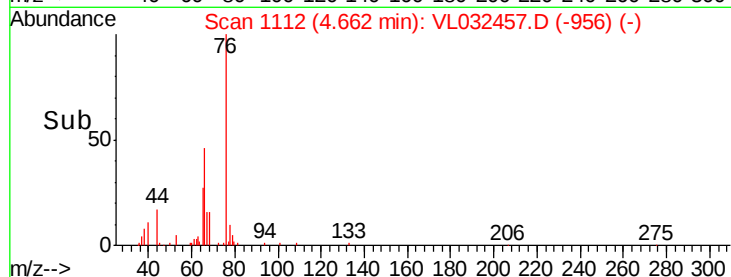
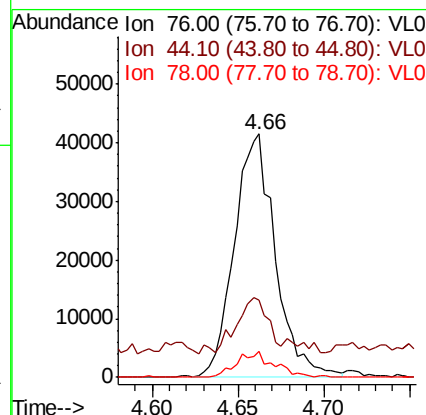
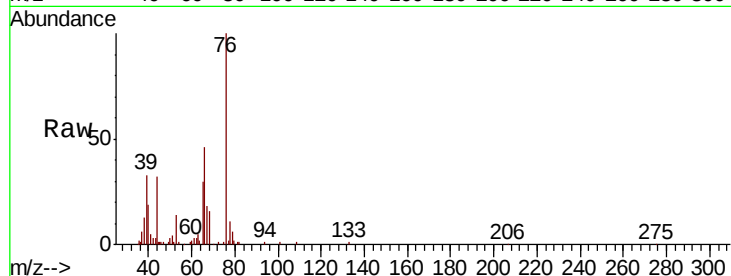
ClientSampleId :

VP-08DL

Tot Ion:	76	Resp:	68878
Ion	Ratio	Lower	Upper
76	100		
44	20.4	14.0	21.0
78	9.9	7.5	11.3

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

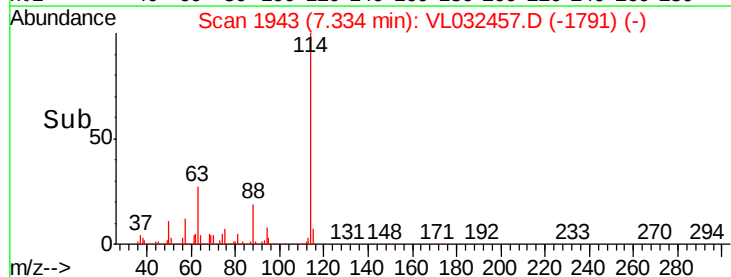
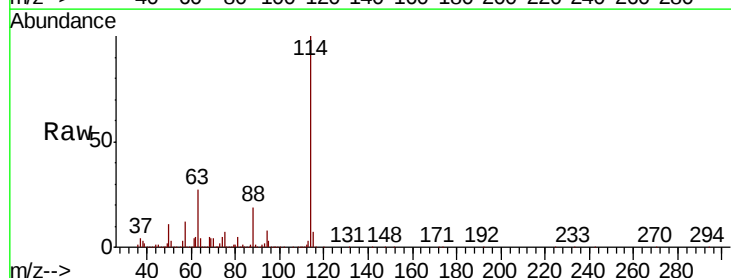
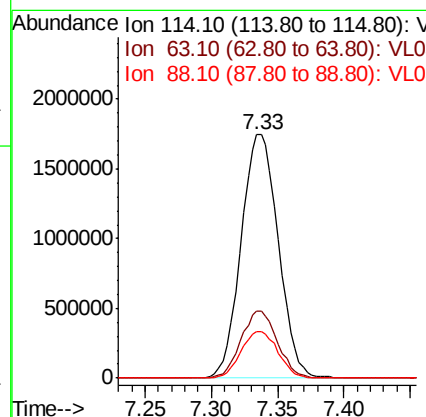
RT: 7.33 min Scan# 1943

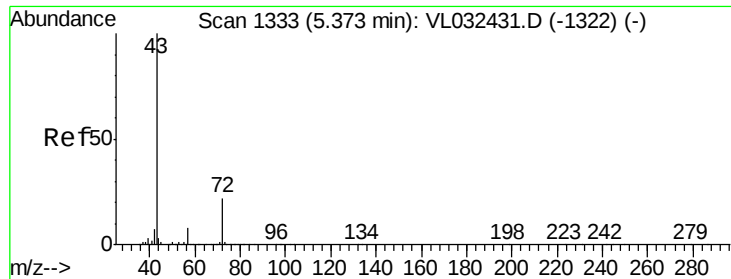
Delta R.T. -0.01 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Tgt Ion:	114	Resp:	3399390
Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.2	33.4
88	19.1	15.0	22.4





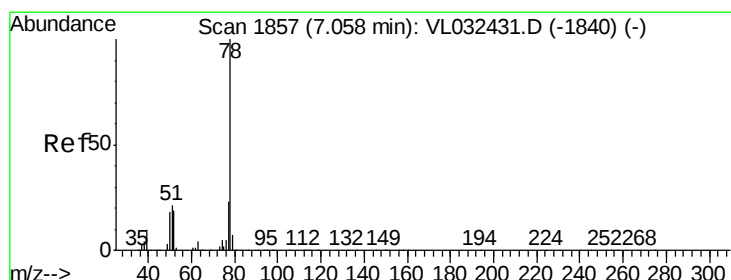
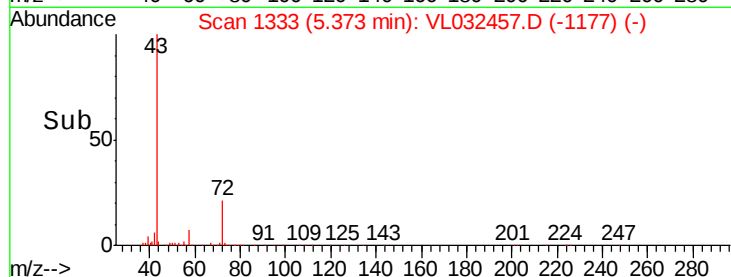
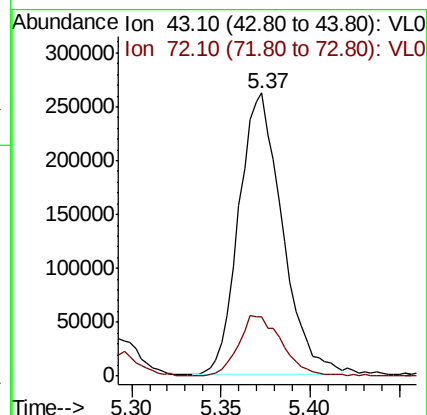
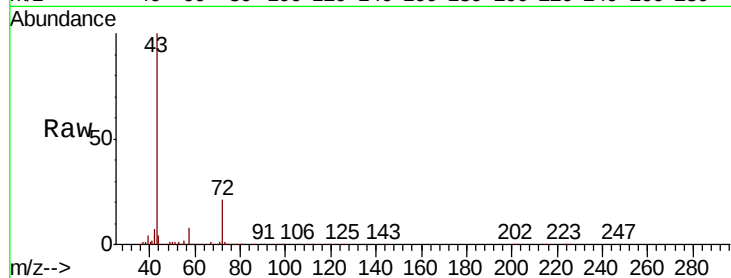
#34
2-Butanone
Concen: 1.96 ppbv
RT: 5.37 min Scan# 1333
Delta R.T. 0.00 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Instrument :
MSVOA_L
ClientSampleId :
VP-08DL

Tot Ion: 43 Resp: 443303
Ion Ratio Lower Upper
43 100
72 21.8 17.8 26.6

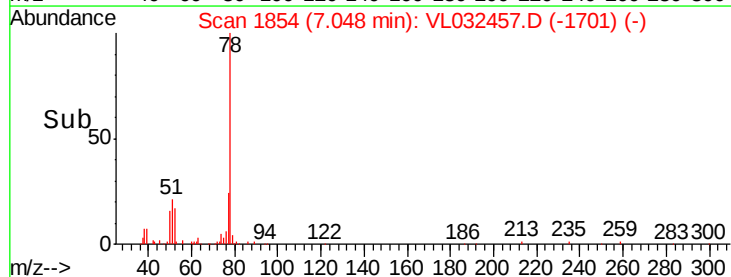
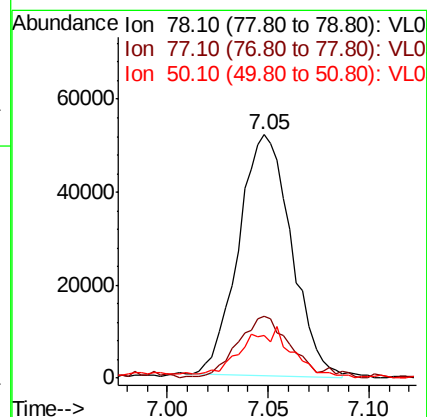
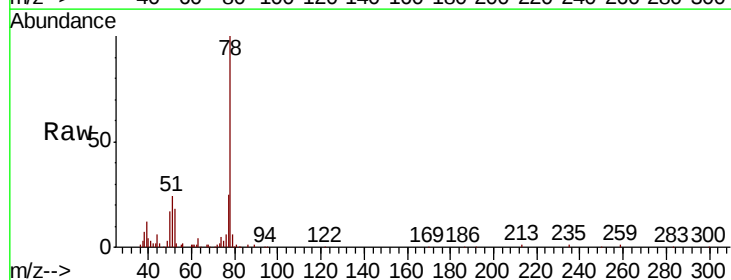
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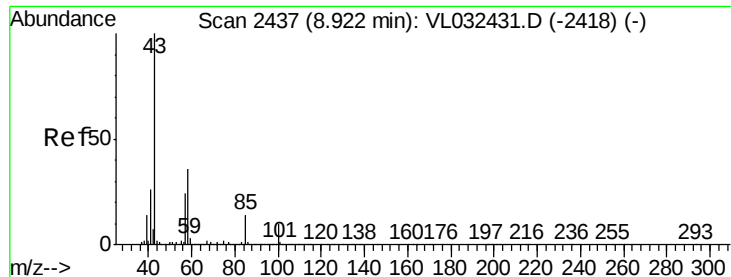
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#36
Benzene
Concen: 0.33 ppbv
RT: 7.05 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Tgt Ion: 78 Resp: 94697
Ion Ratio Lower Upper
78 100
77 23.6 18.4 27.6
50 16.4 14.4 21.6





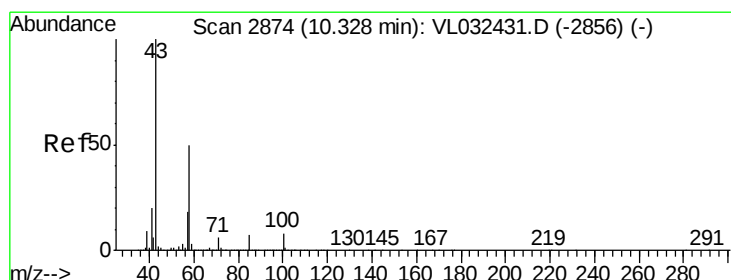
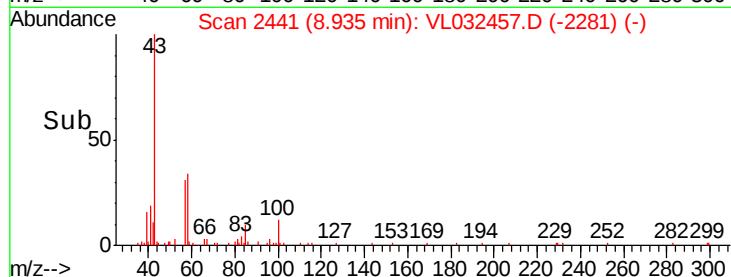
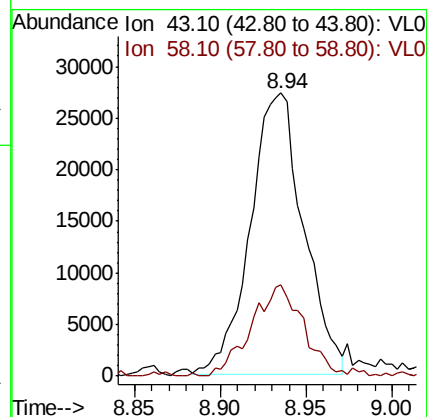
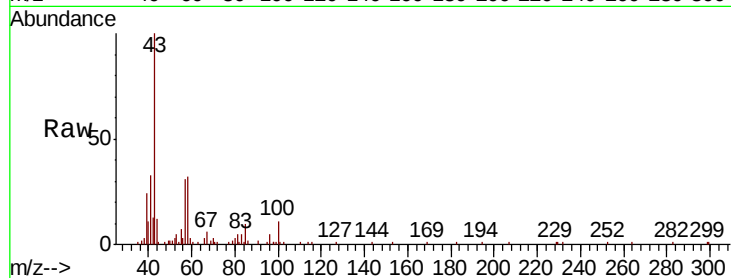
#50
4-Methyl-2-Pentanone
Concen: 0.17 ppbv
RT: 8.94 min Scan# 2441
Delta R.T. 0.01 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Instrument :
MSVOA_L
ClientSampleId :
VP-08DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	31.9	29.0	43.4

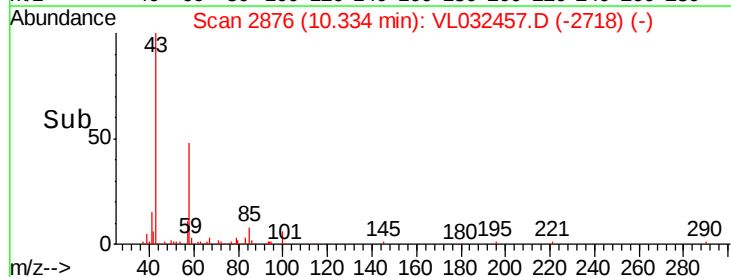
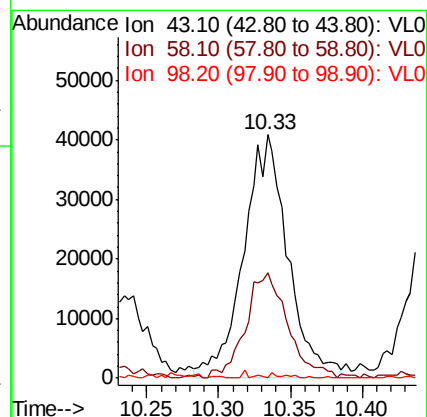
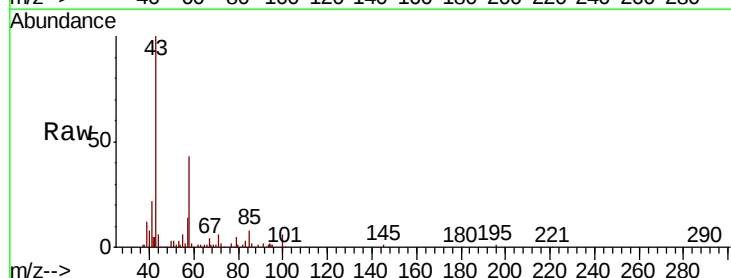
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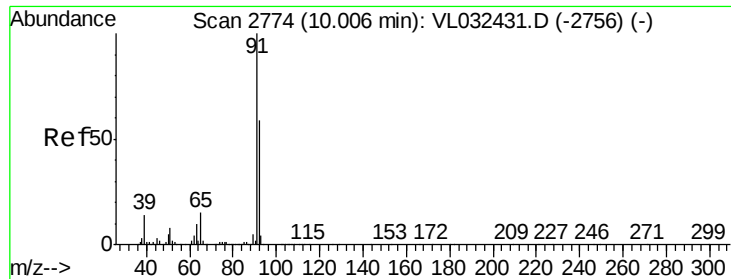
MMDadoda
9/7/2018 10:45:50 AM



#51
2-Hexanone
Concen: 0.40 ppbv m
RT: 10.33 min Scan# 2876
Delta R.T. 0.01 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.2	58.8#
98	1.0	0.4	0.6#





#53

Toluene

Concen: 1.07 ppbv

RT: 10.00 min Scan# 2771

Delta R.T. -0.01 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Instrument :

MSVOA_L

ClientSampled :

VP-08DL

Tot Ion: 91 Resp: 322816

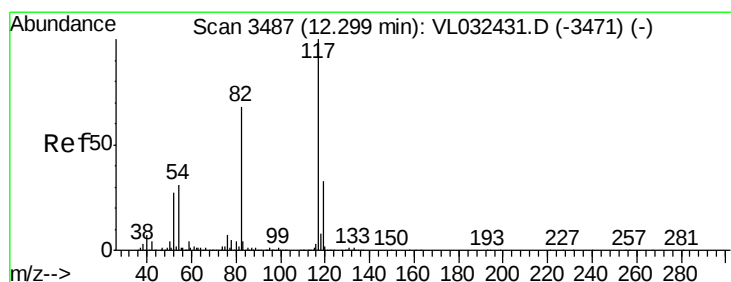
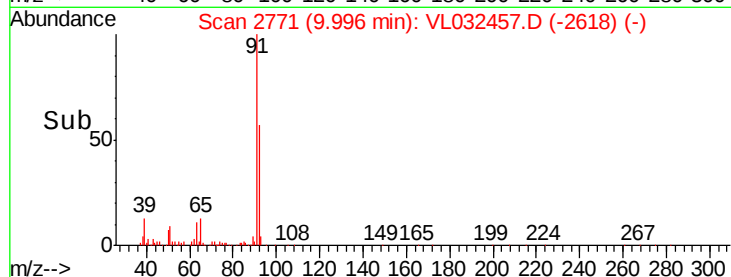
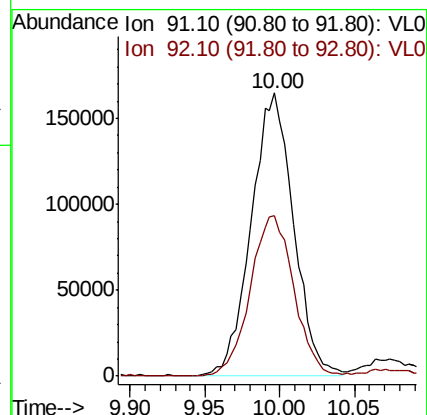
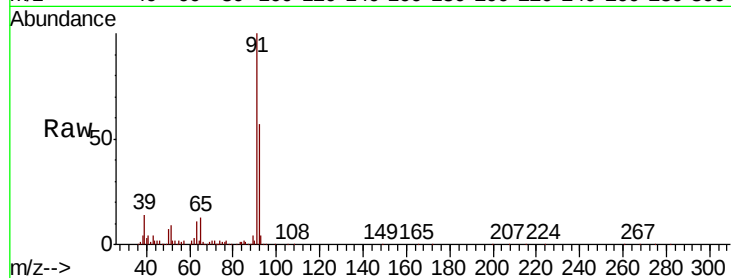
Ion Ratio Lower Upper

91 100

92 59.0 48.1 72.1

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.29 min Scan# 3484

Delta R.T. -0.01 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

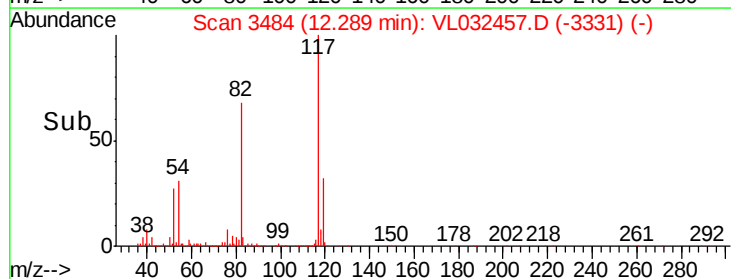
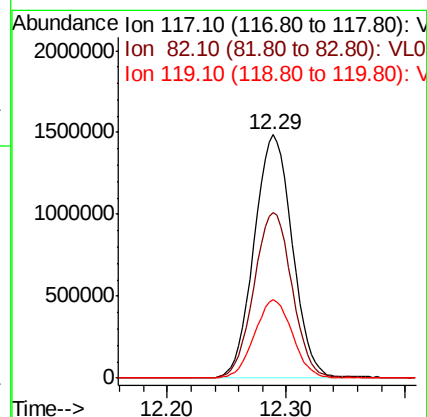
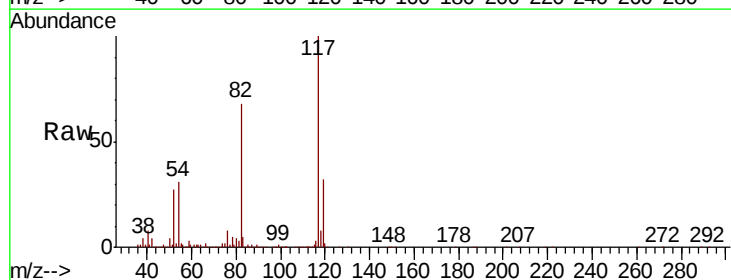
Tgt Ion: 117 Resp: 3297500

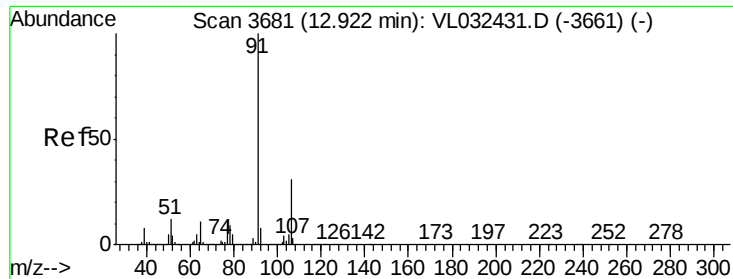
Ion Ratio Lower Upper

117 100

82 68.3 53.0 79.6

119 32.3 45.9 68.9#





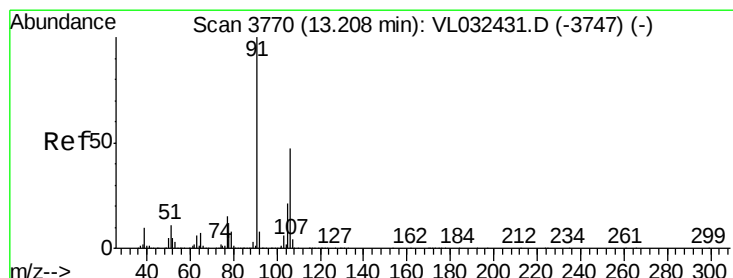
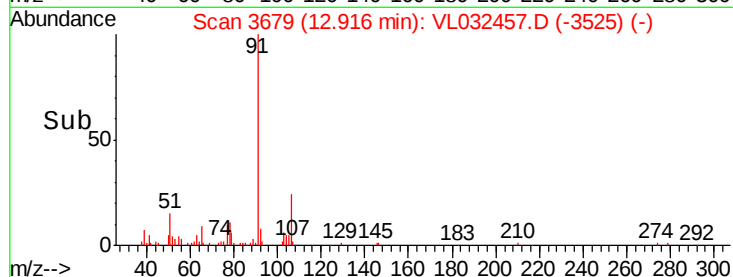
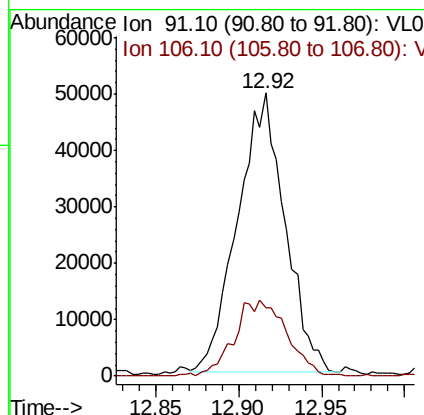
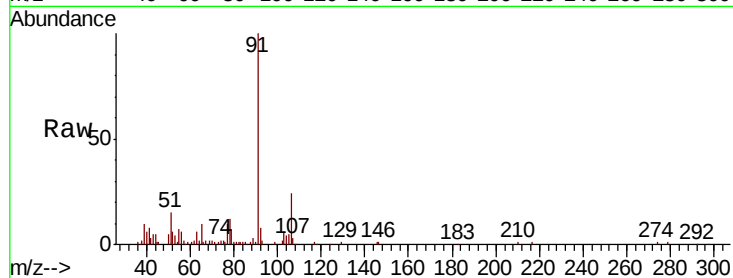
#58
Ethyl Benzene
Concen: 0.25 ppbv
RT: 12.92 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Instrument :
MSVOA_L
Client Sampled :
VP-08DL

Tot Ion: 91 Resp: 97886
Ion Ratio Lower Upper
91 100
106 24.0 24.8 37.2#

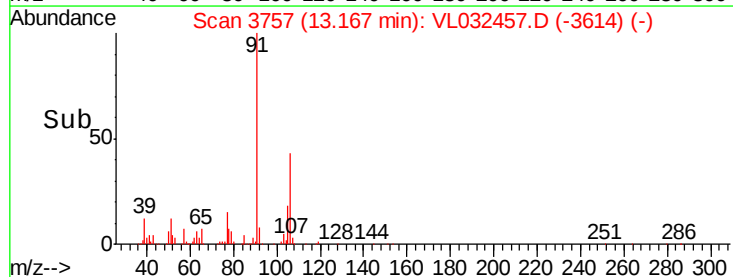
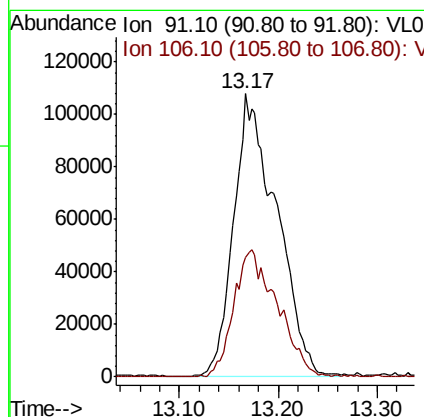
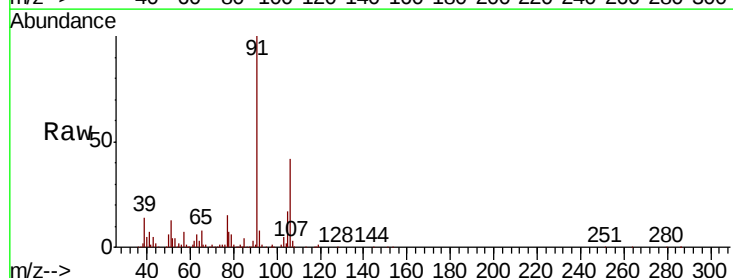
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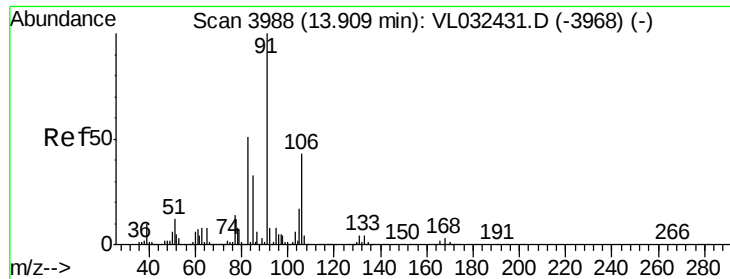
MMDadoda
9/7/2018 10:45:50 AM



#59
m/p-Xylene
Concen: 0.93 ppbv m
RT: 13.17 min Scan# 3757
Delta R.T. -0.04 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Tgt Ion: 91 Resp: 327385
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#





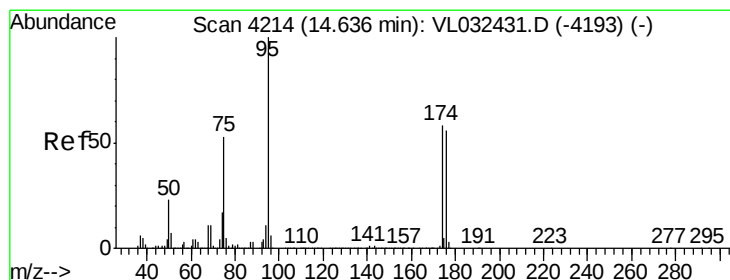
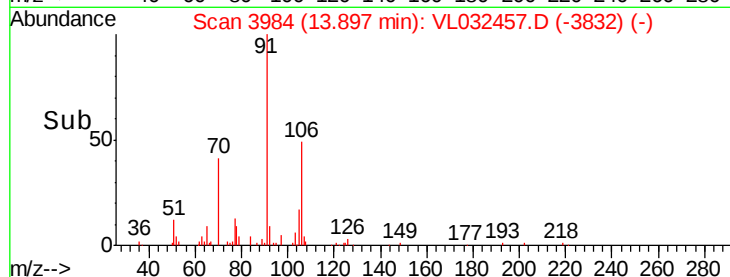
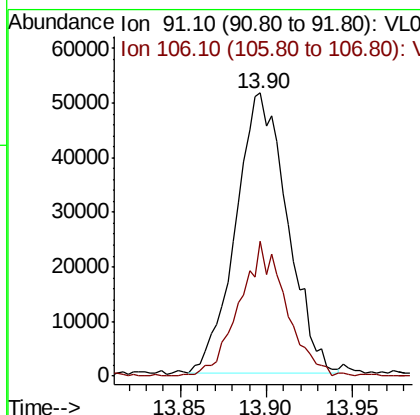
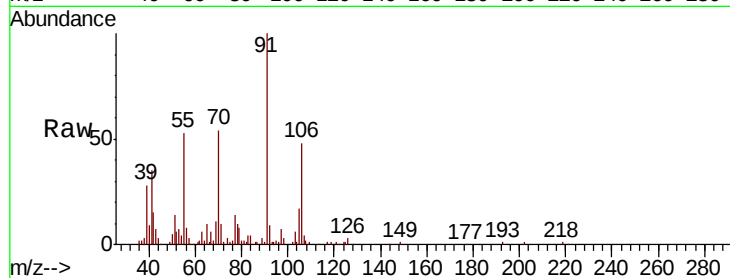
#60
o-Xylene
Concen: 0.31 ppbv
RT: 13.90 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Instrument :
MSVOA_L
ClientSampled :
VP-08DL

Tot Ion: 91 Resp: 107219
Ion Ratio Lower Upper
91 100
106 43.6 21.9 65.7

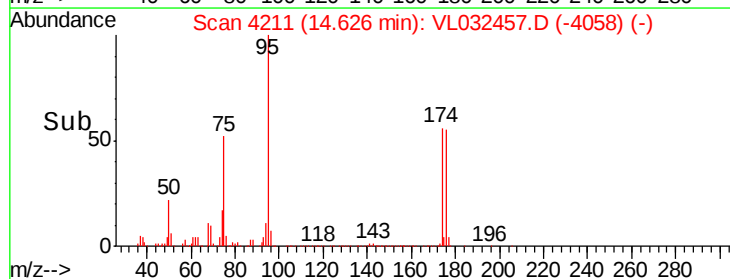
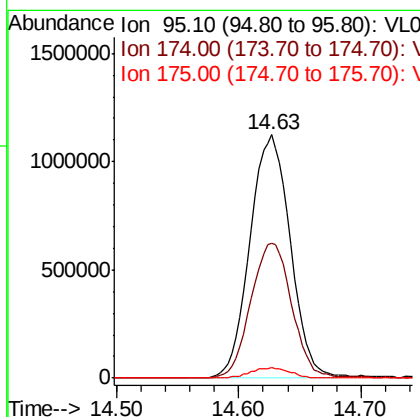
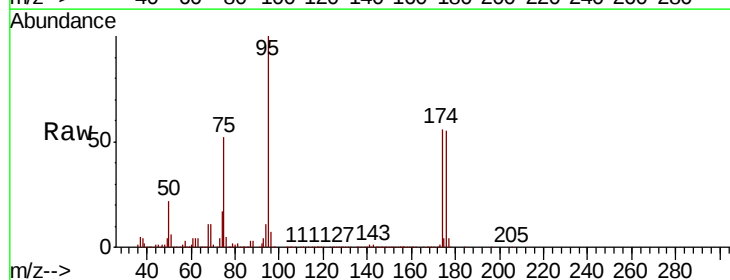
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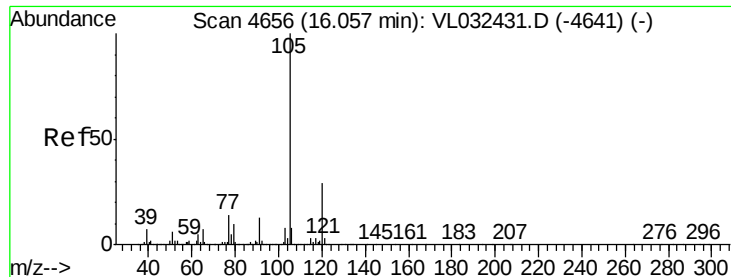
MMDadoda
9/7/2018 10:45:50 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.48 ppbv
RT: 14.63 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VL032457.D
Acq: 5 Sep 2018 14:42

Tgt Ion: 95 Resp: 2566497
Ion Ratio Lower Upper
95 100
174 57.2 46.3 69.5
175 4.2 3.4 5.0





#72

4-Ethyltoluene

Concen: 0.17 ppbv m

RT: 16.06 min Scan# 4656

Delta R.T. 0.00 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Instrument :

MSVOA_L

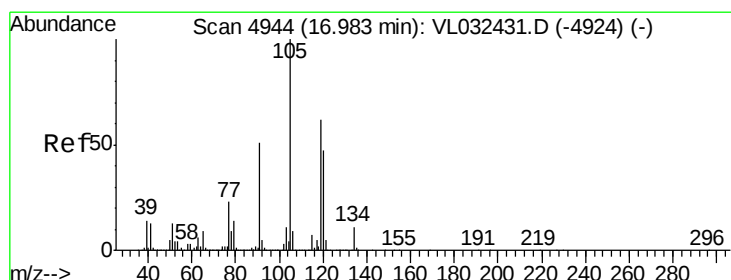
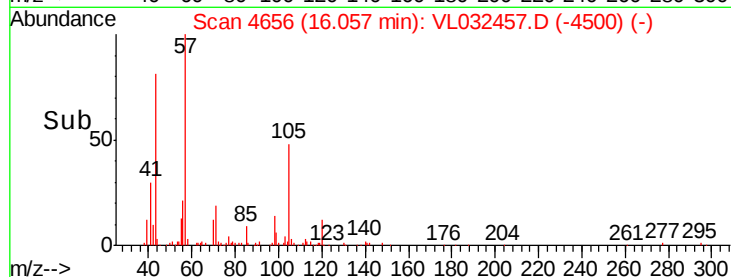
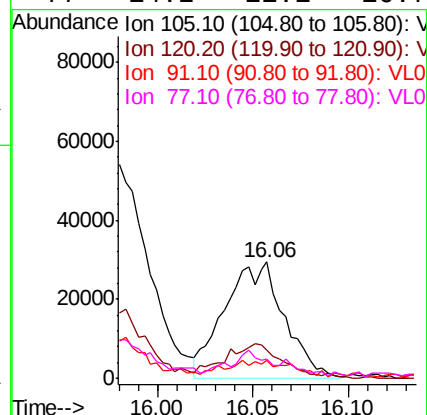
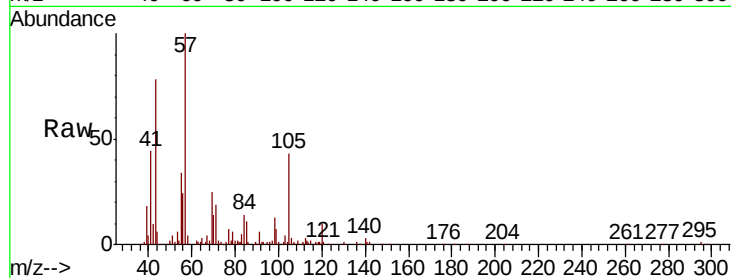
ClientSampleId :

VP-08DL

Tot Ion:	105	Resp:	64099
Ion Ratio	Lower	Upper	
105	100		
120	29.2	23.5	35.3
91	16.5	10.2	15.2#
77	14.2	11.1	16.7

Manual Integrations
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MMDadoda
9/7/2018 10:45:50 AM



#74

1,2,4-Trimethylbenzene

Concen: 0.34 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. -0.01 min

Lab File: VL032457.D

Acq: 5 Sep 2018 14:42

Tgt Ion:	105	Resp:	139377
Ion Ratio	Lower	Upper	
105	100		
120	43.8	37.8	56.8
91	10.4	41.4	62.0#
77	15.0	18.6	28.0#

