

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038204.D
 Acq On : 17 Dec 2021 00:58
 Operator : SY/AP
 Sample : M5119-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-1DL

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021

Quant Time: Dec 17 08:19:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	877868	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2673432	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1693411	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2634263	21.57	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	215.70%#

Target Compounds

					Ovalue
4) Chloromethane	3.15	50	25349m	0.404	ppbv
9) Propene	3.03	41	3415062m	50.299	ppbv
10) Heptane	8.14	43	5668118	33.778	ppbv
13) Ethanol	3.62	45	17010m	2.592	ppbv
15) Acetone	3.86	43	1075744	14.134	ppbv #
17) tert-Butyl alcohol	4.30	59	13334m	0.144	ppbv
19) Isopropyl Alcohol	3.97	45	1032774	18.780	ppbv #
20) Methylene Chloride	4.35	84	36127	0.847	ppbv
26) Hexane	5.70	57	55953m	0.459	ppbv
27) Carbon Disulfide	4.56	76	12709m	0.116	ppbv
30) Cyclohexane	7.14	84	52152	0.471	ppbv #
31) cis-1,2-Dichloroethene	5.56	61	70397	0.607	ppbv
34) 2-Butanone	5.25	43	548273	5.086	ppbv
36) Benzene	6.89	78	43407m	0.163	ppbv
38) Trichloroethene	7.84	130	593022	5.895	ppbv
52) Tetrachloroethene	11.27	164	5226717	52.969	ppbv
53) Toluene	9.82	91	345458	1.126	ppbv
58) Ethyl Benzene	12.75	91	14124951	50.466	ppbv #
59) m/p-Xylene	13.01	91	18461696	78.357	ppbv
60) o-Xylene	13.73	91	5836051	26.702	ppbv
62) Isopropylbenzene	14.69	105	101599	0.327	ppbv
69) p-Isopropyltoluene	17.66	119	66074	0.222	ppbv #
74) 1,2,4-Trimethylbenzene	16.78	105	25696m	0.108	ppbv

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

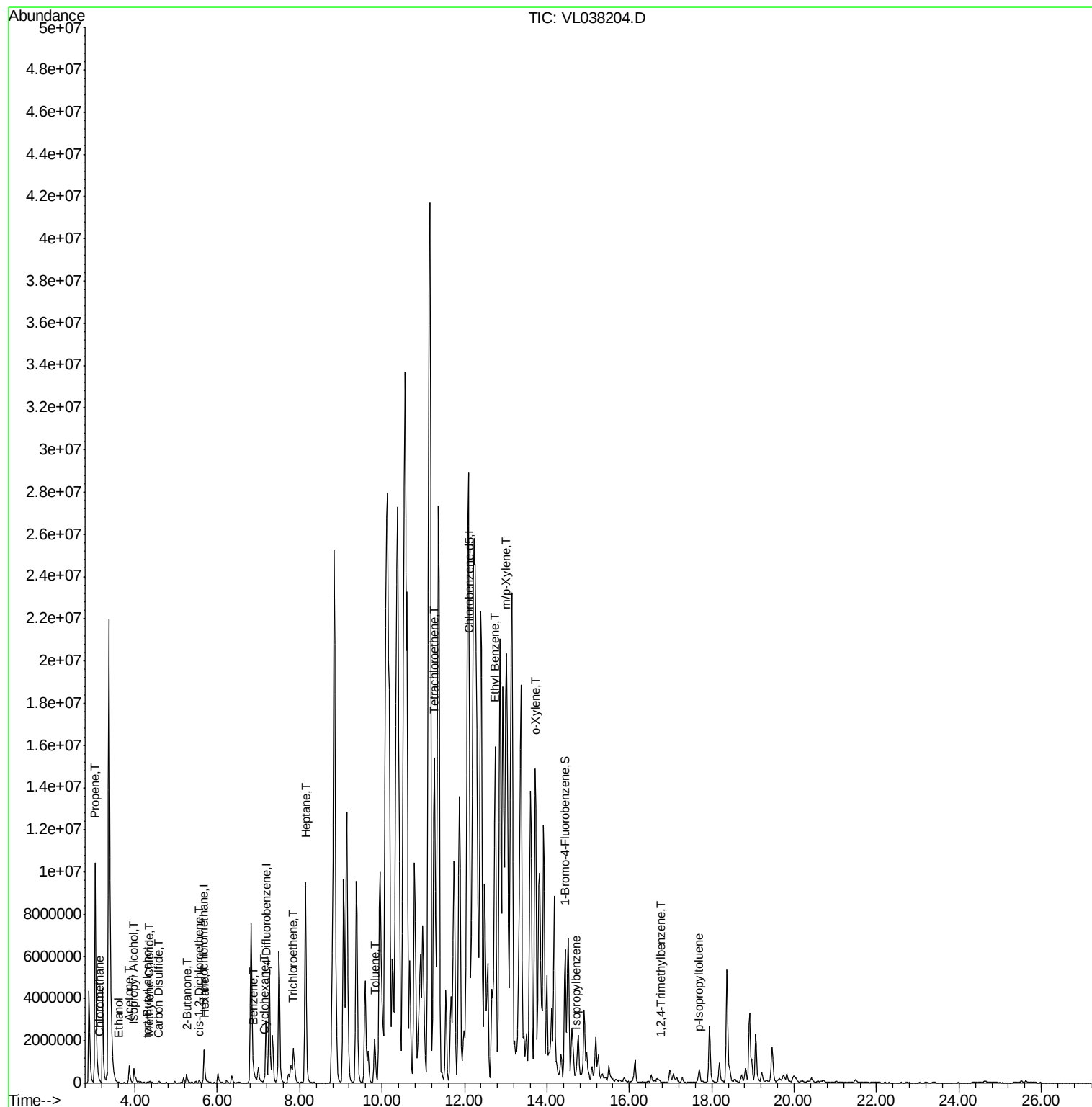
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
Data File : VL038204.D
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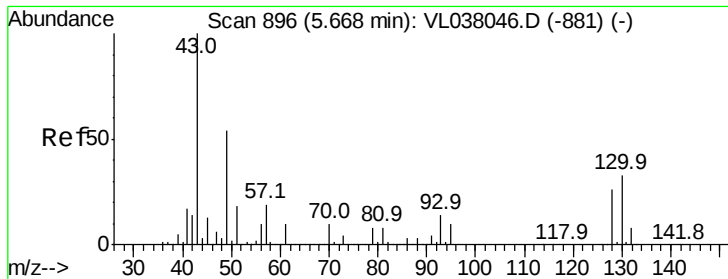
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Manual Integrations
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Quant Time: Dec 17 08:19:54 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Supervised By :Mahesh Dadoda 12/20/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 00:58 SG-1DL

Tot Ion:

Ion Ratio

49 100

128 52.

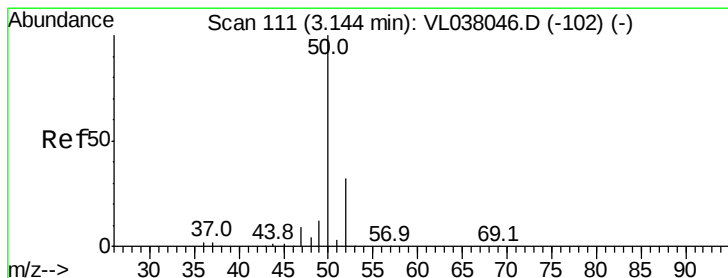
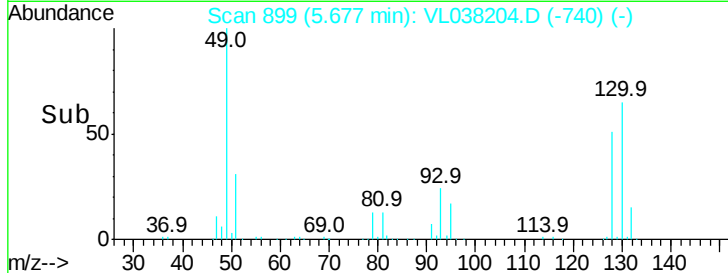
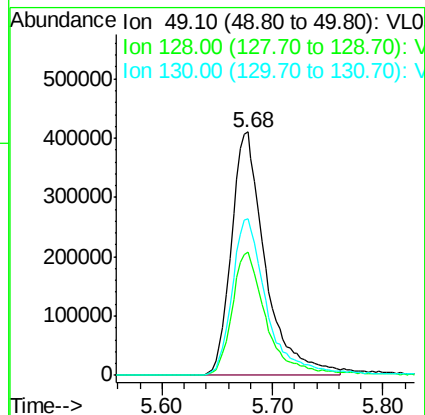
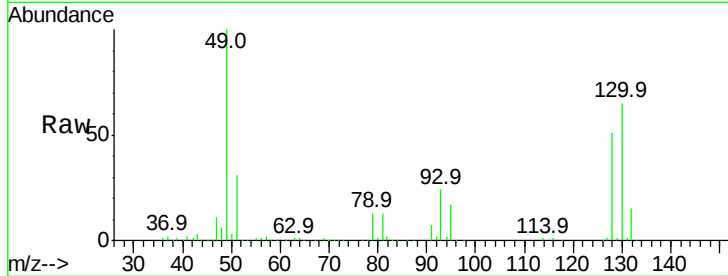
130 67.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#4

Chloromethane

Concen: 0.404 ppbv m

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL038204.D

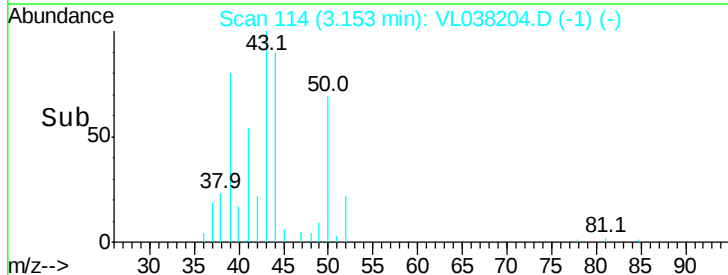
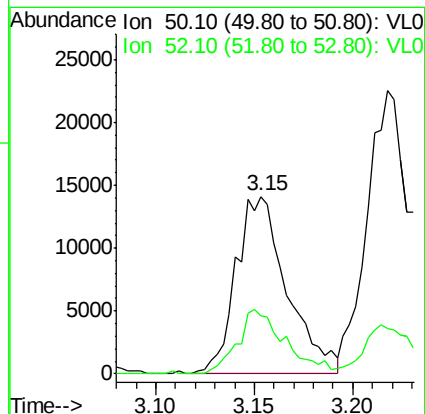
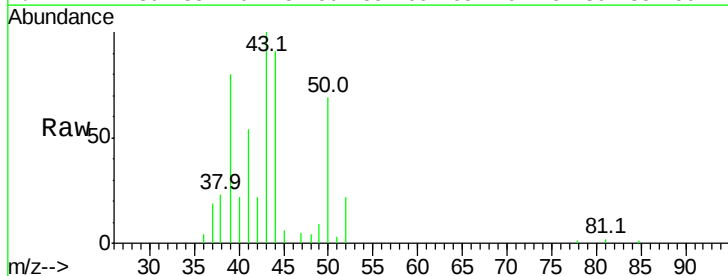
Acq: 17 Dec 2021 00:58

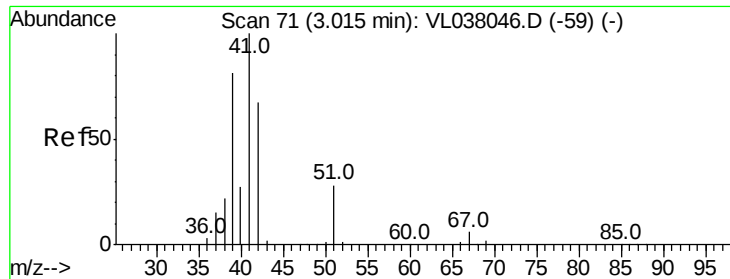
Tgt Ion: 50 Resp: 25349

Ion Ratio Lower Upper

50 100

52 32.5 25.4 38.0





#9

Propene

Concen: 50.299 ppbv m

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 00:58 SG-1DL

Tot Ion:

Ion Ratio

41 100

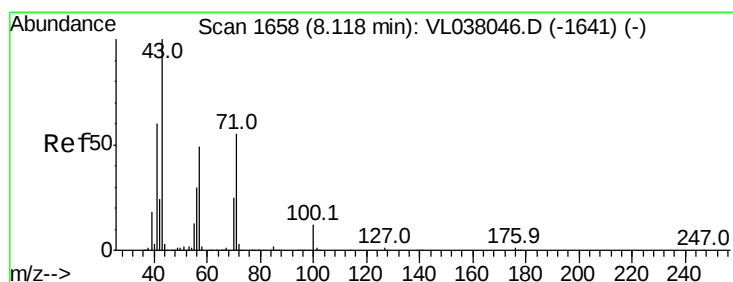
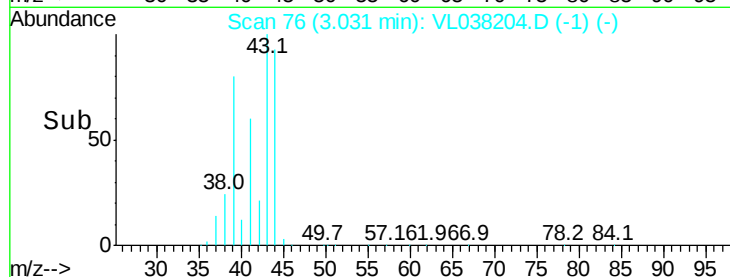
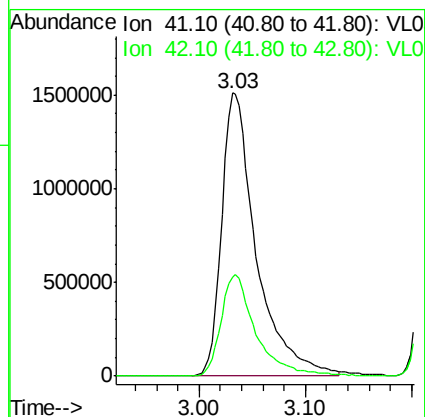
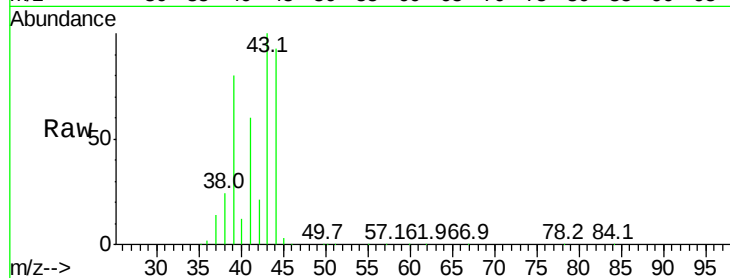
42 33.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#10

Heptane

Concen: 33.778 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.02 min

Lab File: VL038204.D

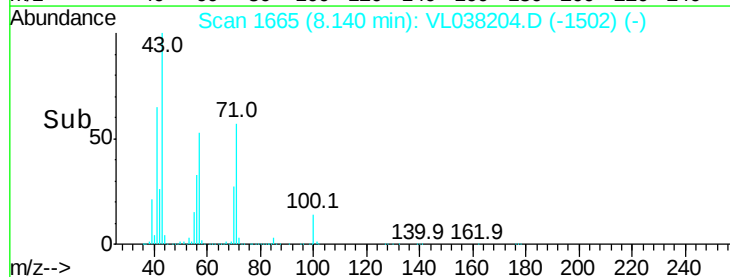
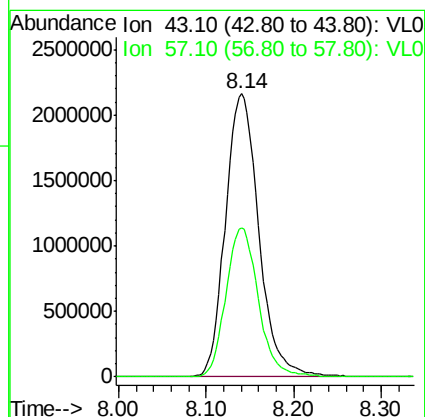
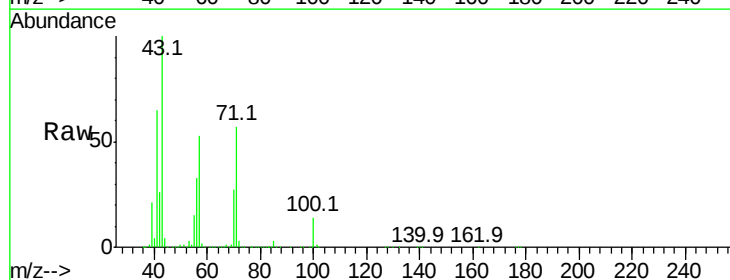
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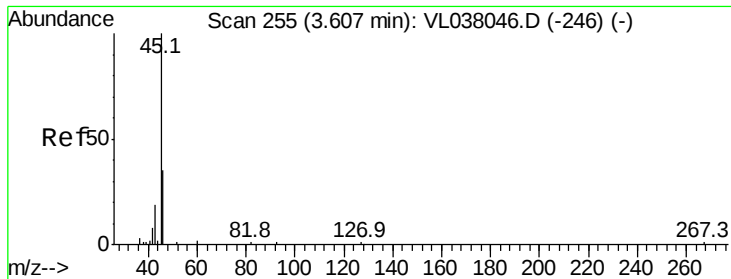
Tgt Ion: 43 Resp: 5668118

Ion Ratio Lower Upper

43 100

57 52.2 40.4 60.6





#13

Ethanol

Concen: 2.592 ppbv m

RT: 3.62 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 17 Dec 2021 00:58

Tot Ion:

Ion Ratio

45 100

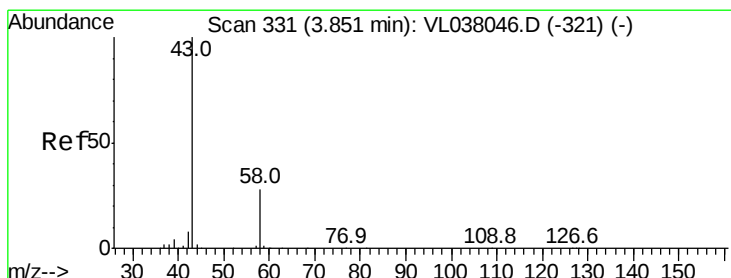
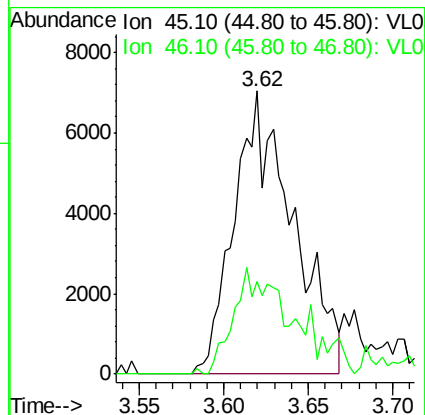
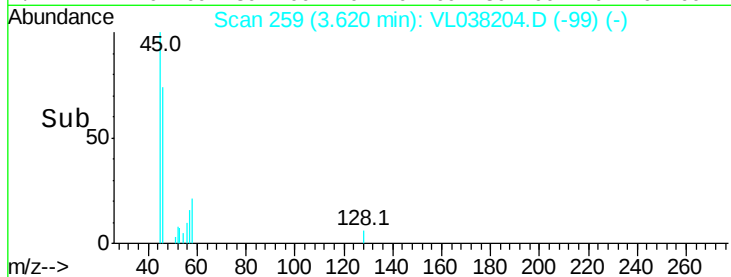
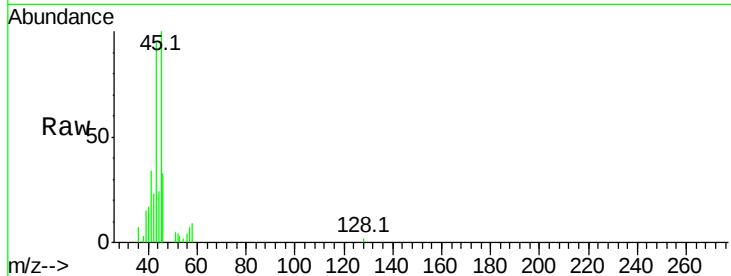
46 0.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#15

Acetone

Concen: 14.134 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL038204.D

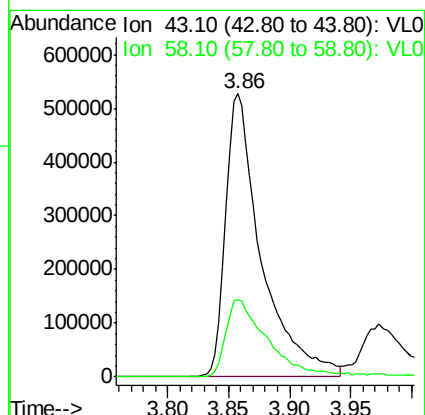
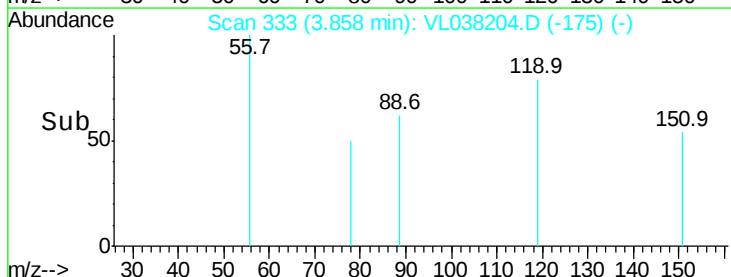
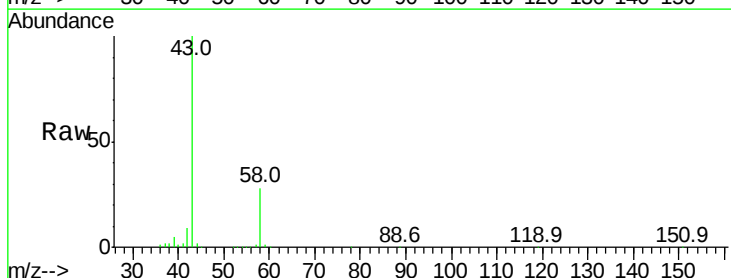
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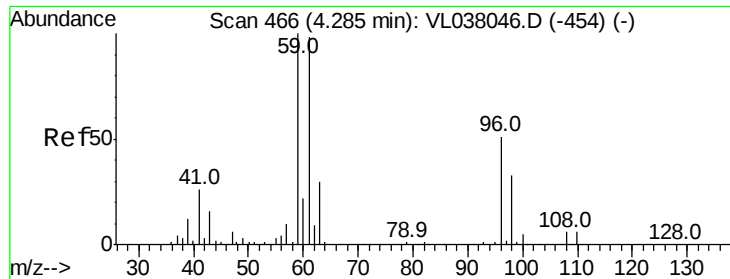
Tgt Ion: 43 Resp: 1075744

Ion Ratio Lower Upper

43 100

58 33.8 22.4 33.6#





#17

tert-Butyl alcohol

Concen: 0.144 ppbv m

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 00:58 SG-1DL

Tot Ion:

Ion Ratio

59 100

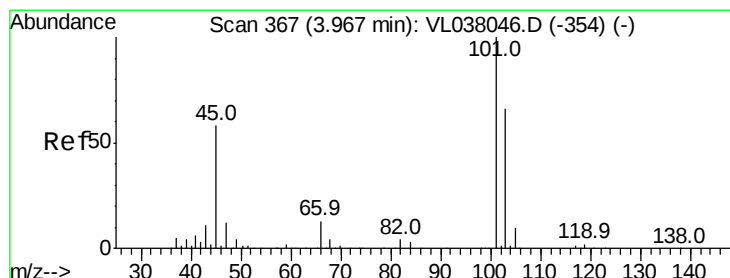
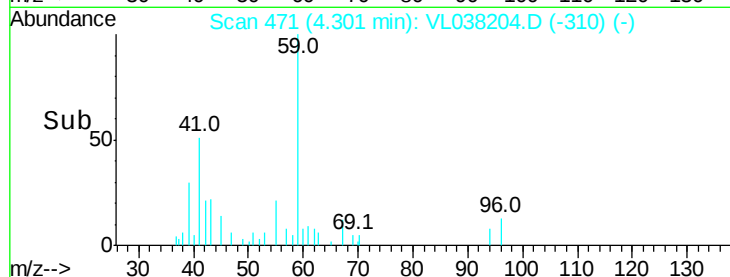
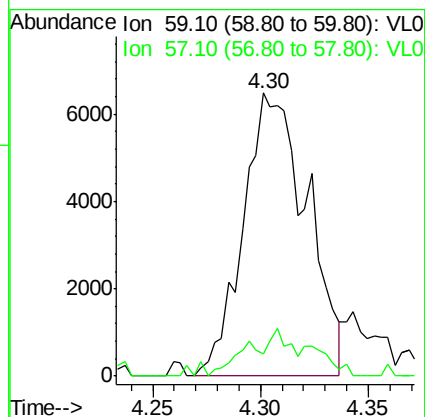
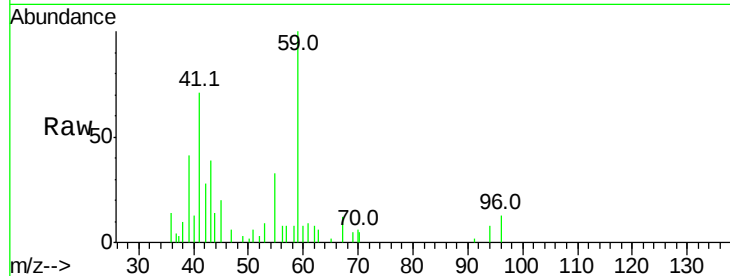
57 0.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#19

Isopropyl Alcohol

Concen: 18.780 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL038204.D

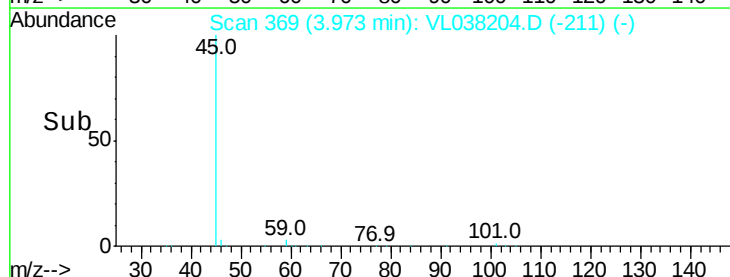
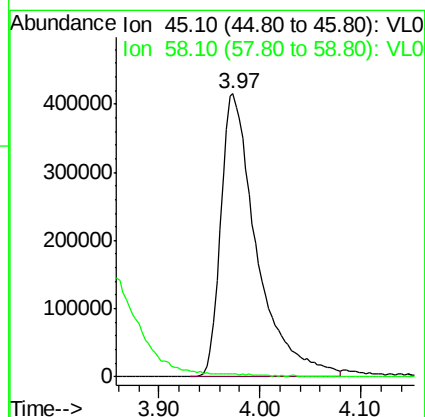
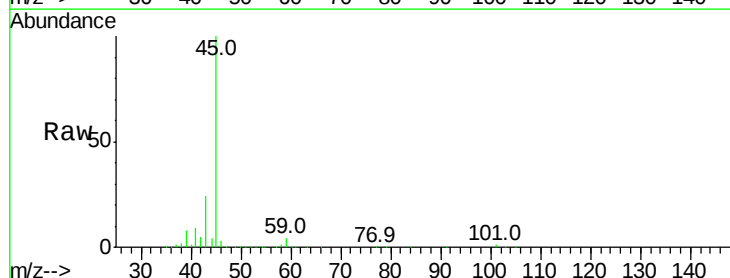
Acq: 17 Dec 2021 00:58

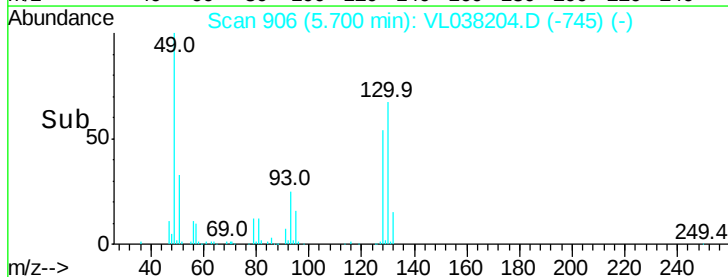
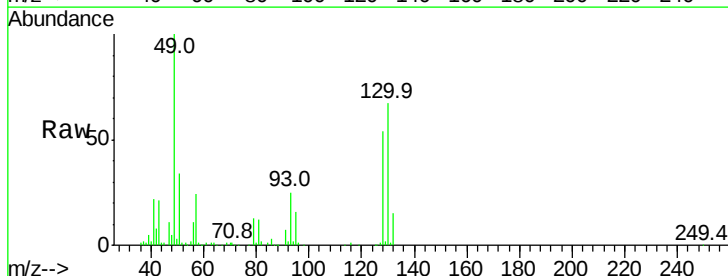
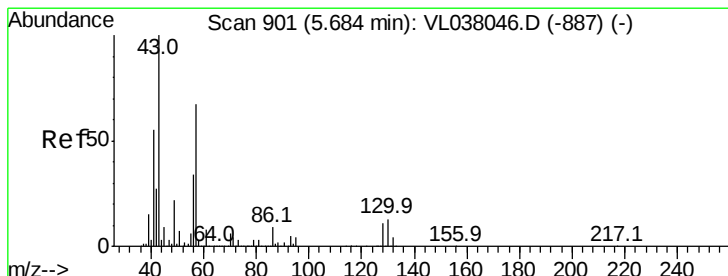
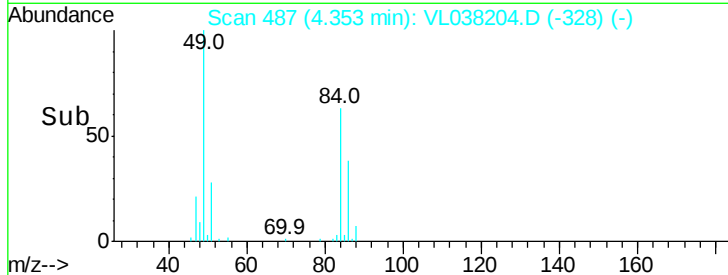
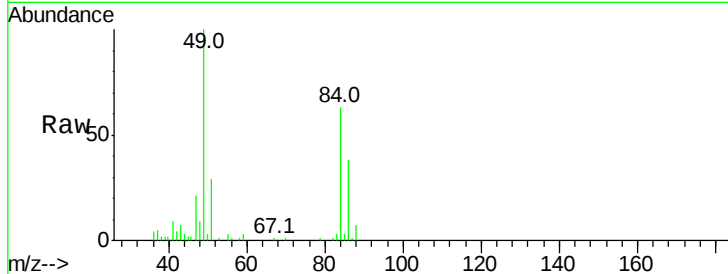
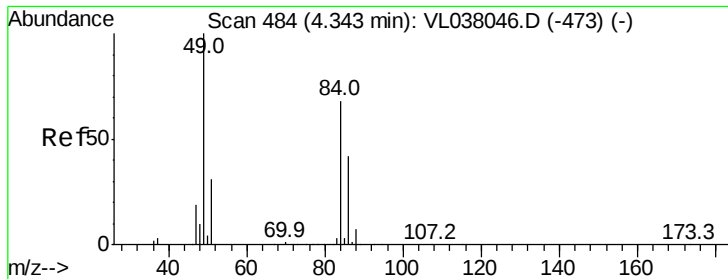
Tgt Ion: 45 Resp: 1032774

Ion Ratio Lower Upper

45 100

58 35.2 1.4 2.0#



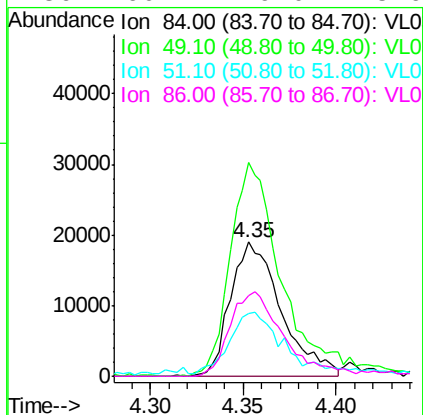


#20
Methvlene Chloride
Concen: 0.847 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 17 Dec 2021 00:58

Tot Ion:
Ion Ratio
84 100
49 158.
51 44.
86 60.4 49.0 73.6

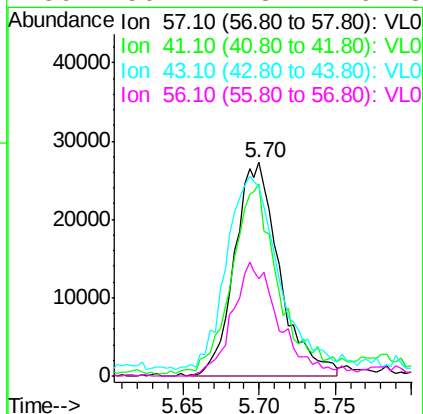
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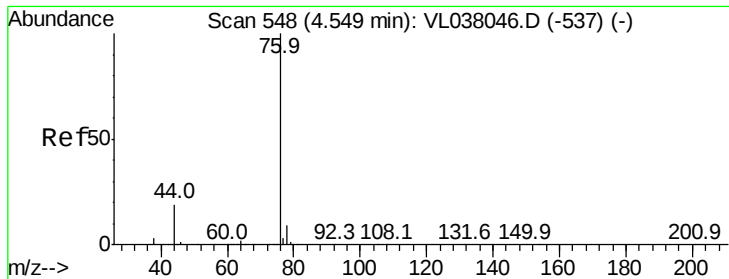
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#26
Hexane
Concen: 0.459 ppbv m
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL038204.D
Acq: 17 Dec 2021 00:58

Tgt Ion: 57 Resp: 55953
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 107.6 174.6 261.8#
56 56.2 43.2 64.8



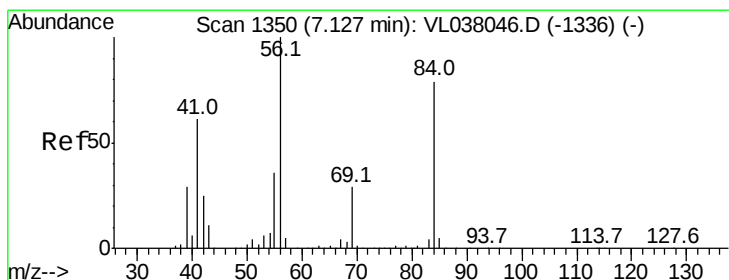
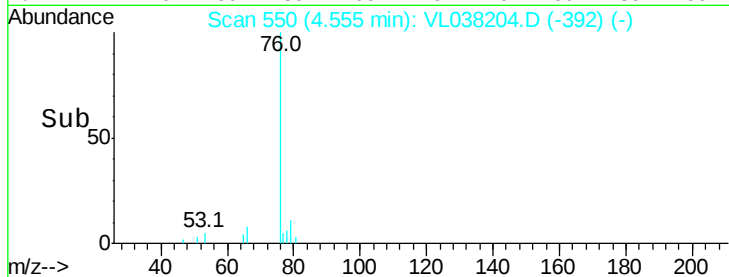
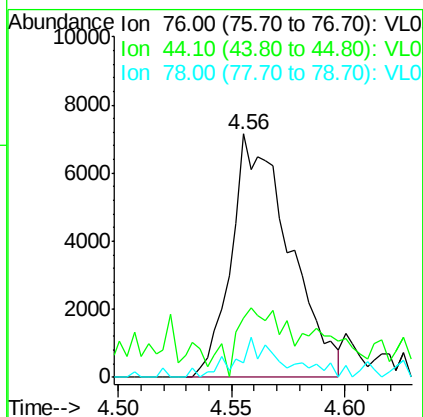
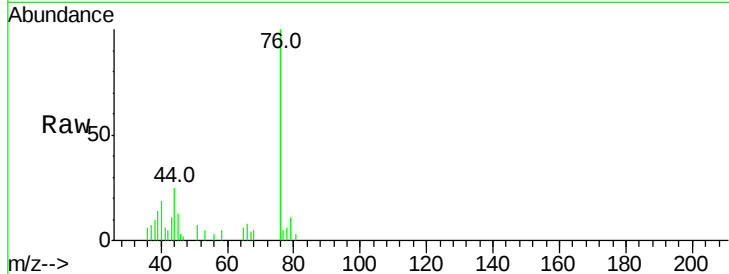


#27
Carbon Disulfide
Concen: 0.116 ppbv m
RT: 4.56
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 17 Dec 2021 00:58

Tot Ion:
Ion Ratio
76 100
44 37.
78 13.

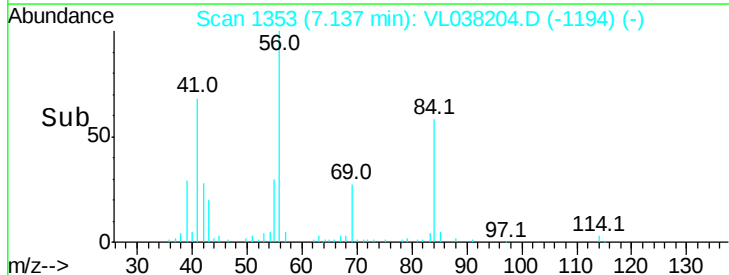
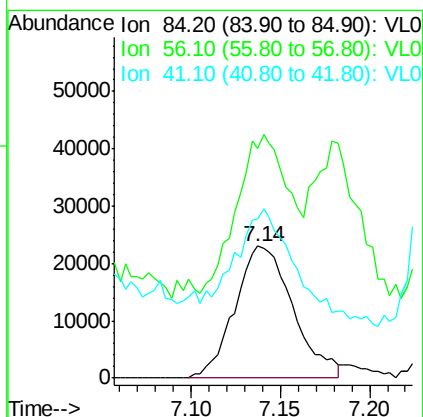
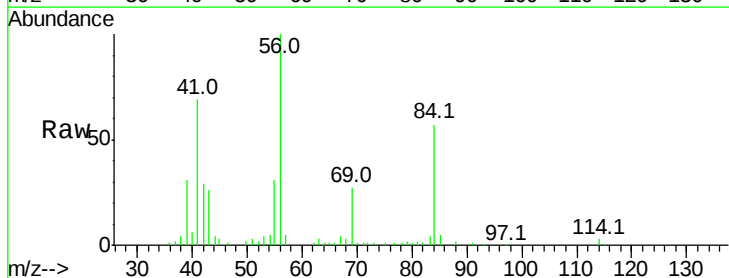
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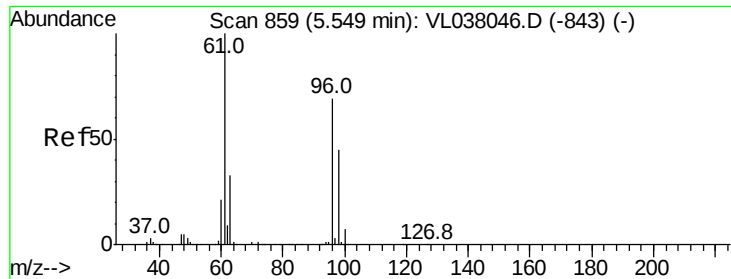
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#30
Cyclohexane
Concen: 0.471 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.01 min
Lab File: VL038204.D
Acq: 17 Dec 2021 00:58

Tgt Ion: 84 Resp: 52152
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 355.9 64.4 96.6#





#31

cis-1,2-Dichloroethene

Concen: 0.607 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 00:58 SG-1DL

Tot Ion:

Ion Ratio

61 100

96 66.

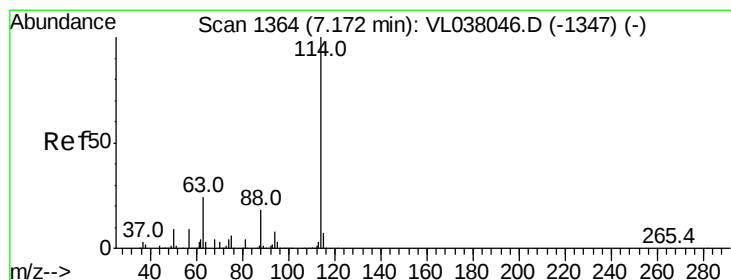
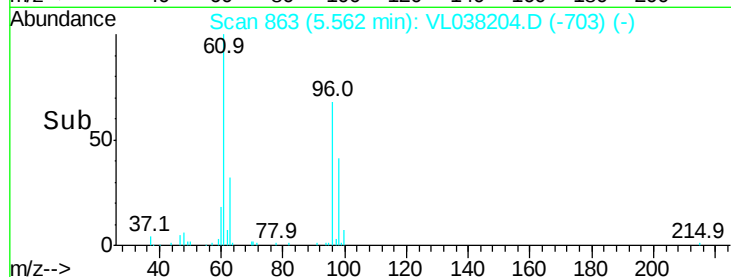
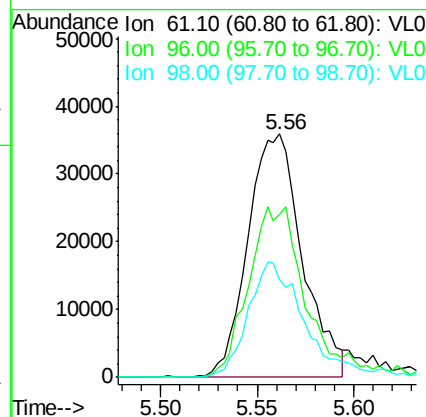
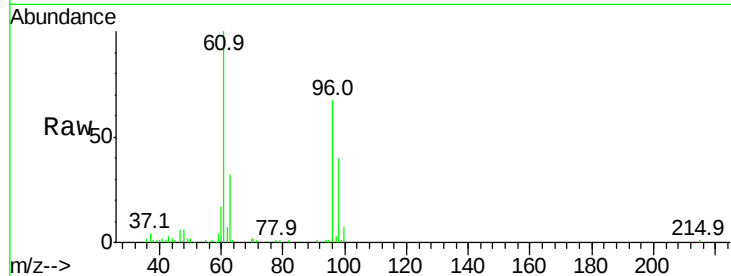
98 40.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL038204.D

Acq: 17 Dec 2021 00:58

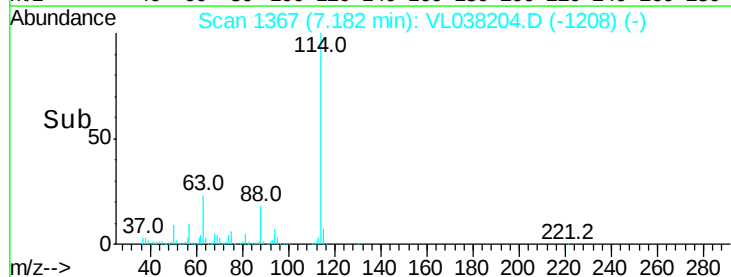
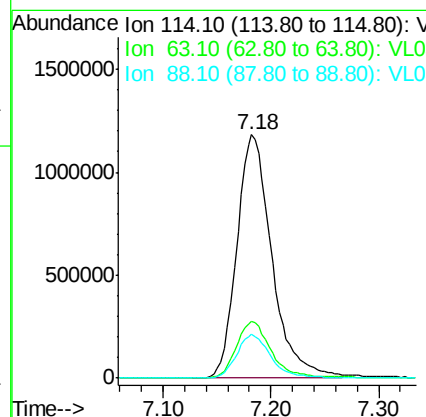
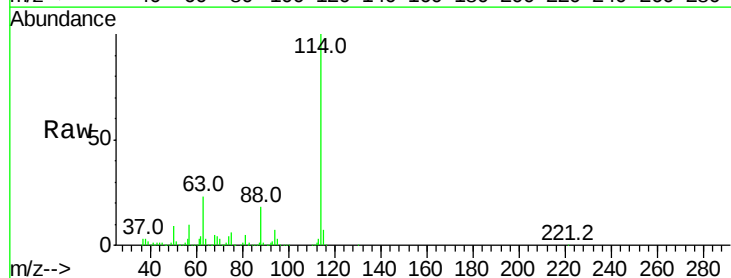
Tgt Ion:114 Resp: 2673432

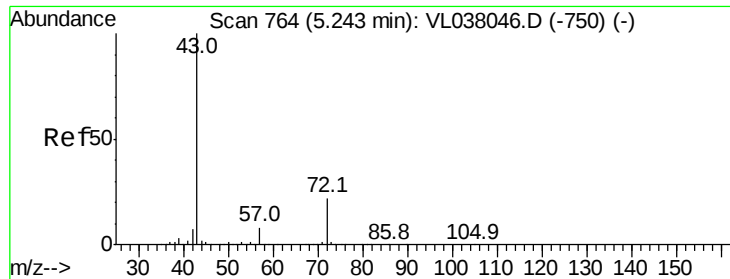
Ion Ratio Lower Upper

114 100

63 23.8 19.7 29.5

88 17.7 14.4 21.6



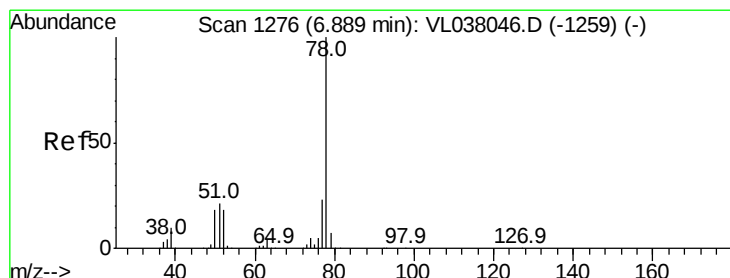
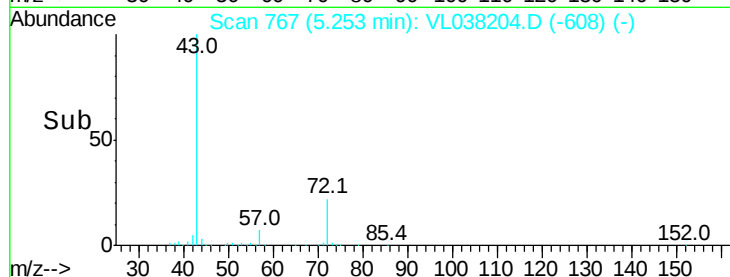
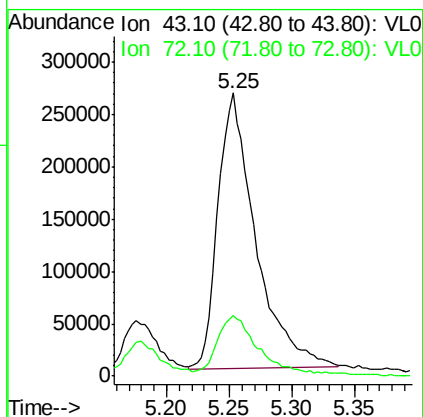
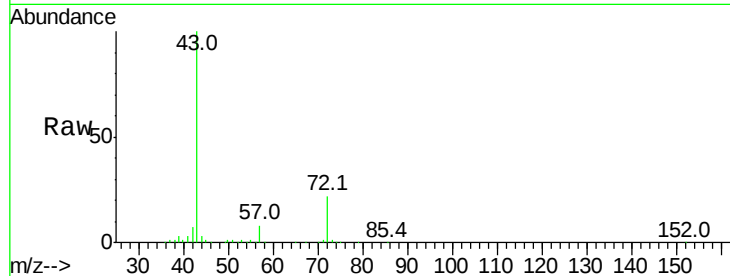


#34
2-Butanone
Concen: 5.086 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Dec 2021 00:58

Tot Ion:
Ion Ratio
43 100
72 26.

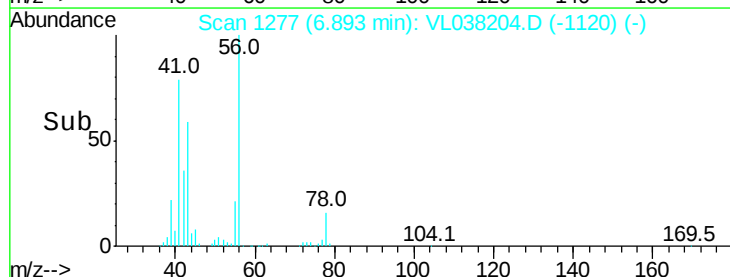
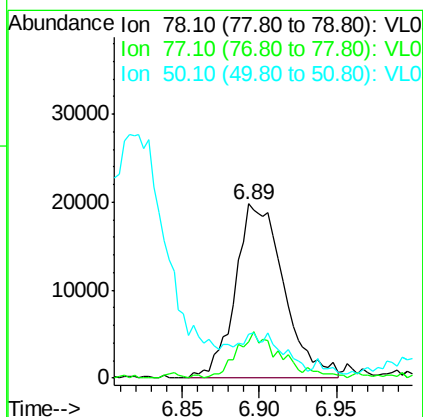
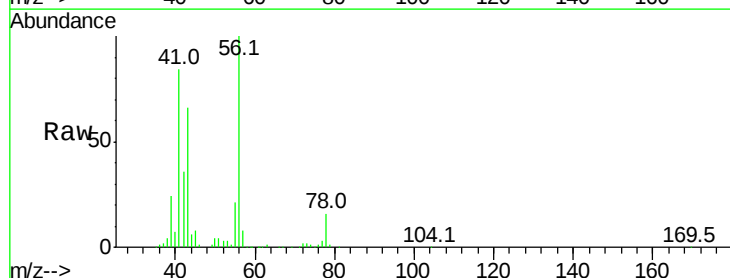
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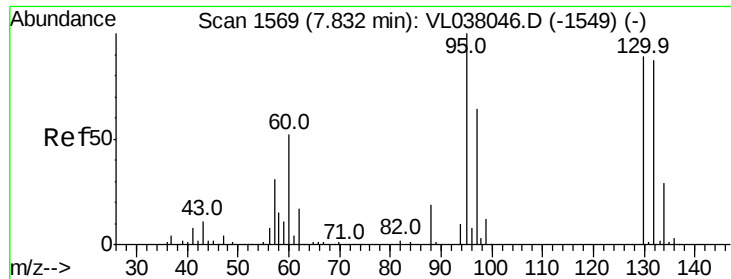
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#36
Benzene
Concen: 0.163 ppbv m
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL038204.D
Acq: 17 Dec 2021 00:58

Tgt Ion: 78 Resp: 43407
Ion Ratio Lower Upper
78 100
77 20.8 18.2 27.4
50 25.2 14.7 22.1#



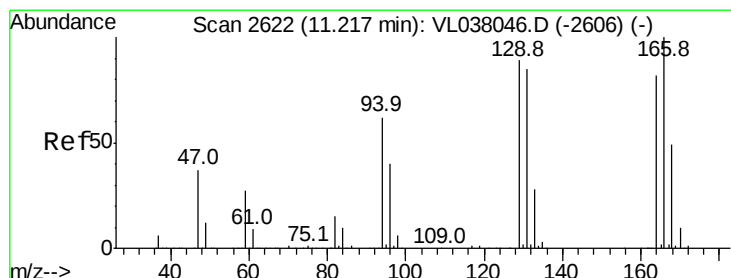
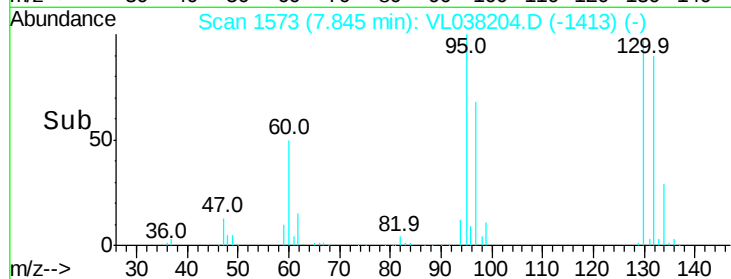
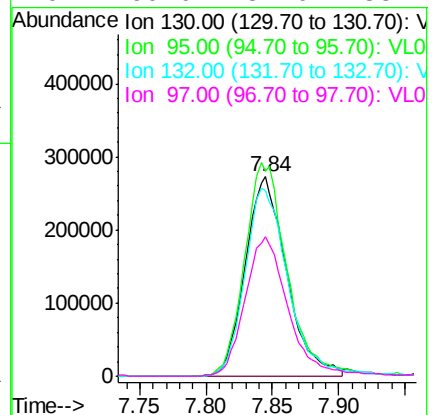
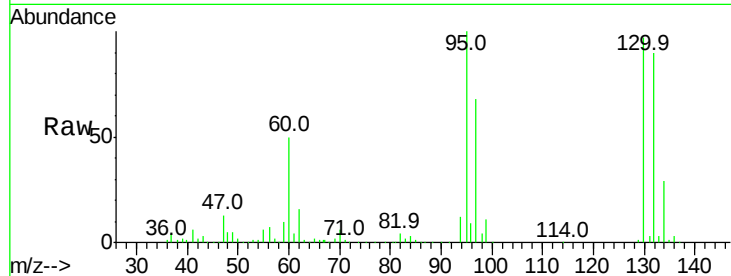


#38
 Trichloroethene
 Concen: 5.895 ppbv
 RT: 7.84
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 17 Dec 2021 00:58

Tot Ion:1
 Ion Ratio
 130 100
 95 102.
 132 92.
 97 69.9 57.0 85.4

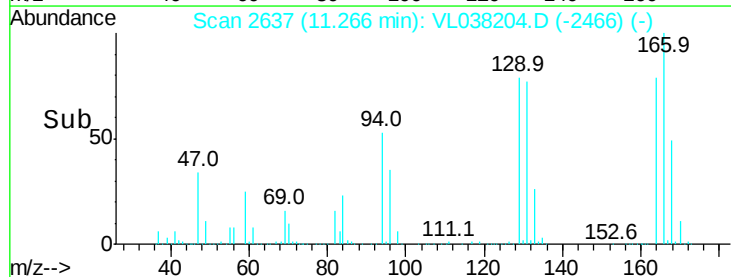
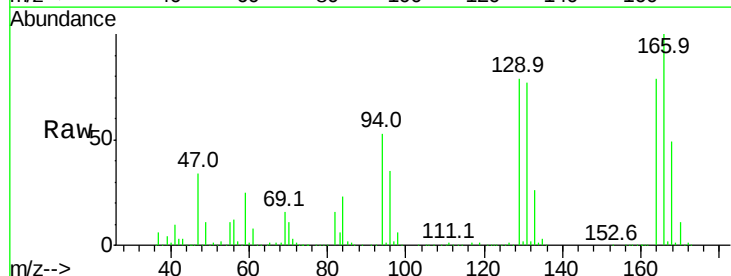
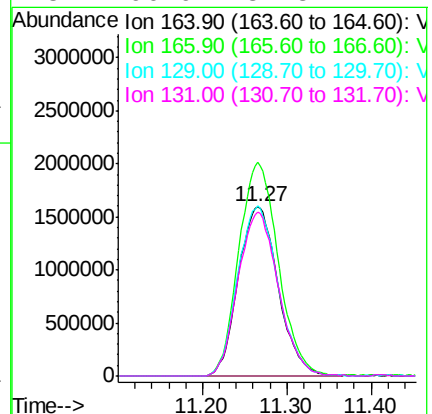
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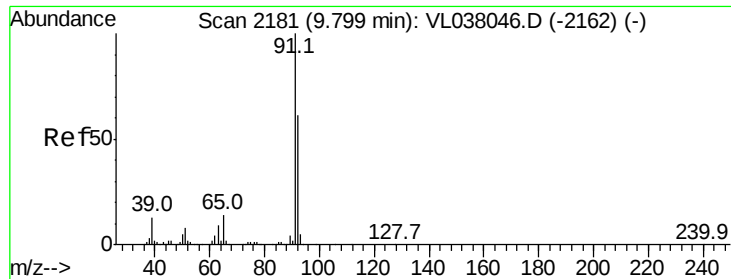
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#52
 Tetrachloroethene
 Concen: 52.969 ppbv
 RT: 11.27 min Scan# 2637
 Delta R.T.: 0.05 min
 Lab File: VL038204.D
 Acq: 17 Dec 2021 00:58

Tgt Ion:164 Resp: 5226717
 Ion Ratio Lower Upper
 164 100
 166 126.4 97.2 145.8
 129 100.4 86.9 130.3
 131 96.9 82.8 124.2





#53

Toluene

Concen: 1.126 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 17 Dec 2021 00:58 SG-1DL

Tot Ion:

Ion Ratio

91 100

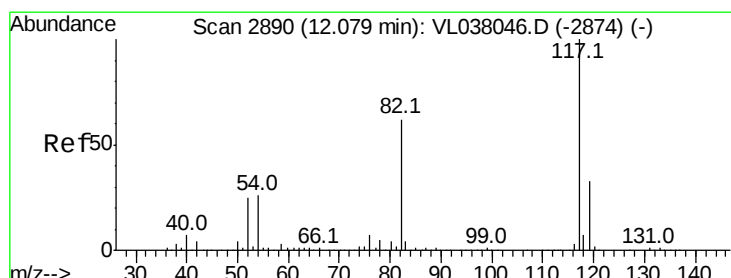
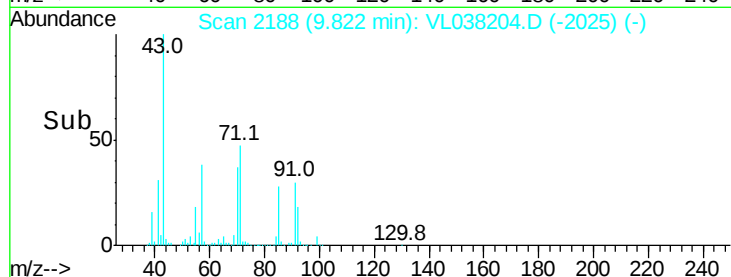
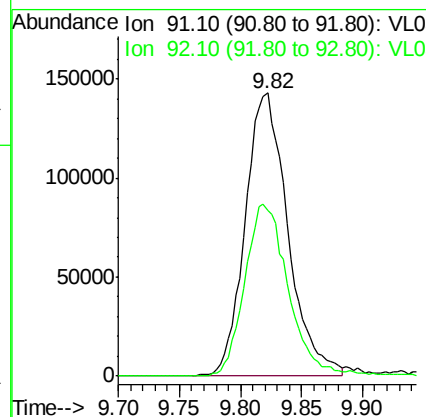
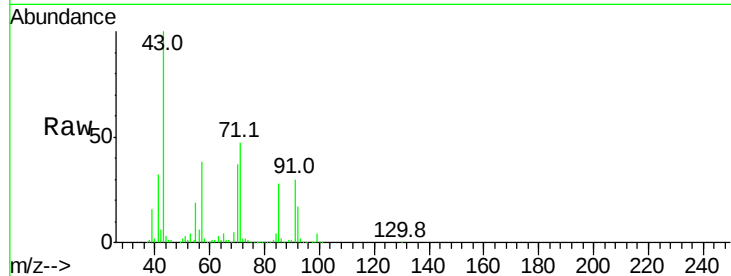
92 62.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. 0.05 min

Lab File: VL038204.D

Acq: 17 Dec 2021 00:58

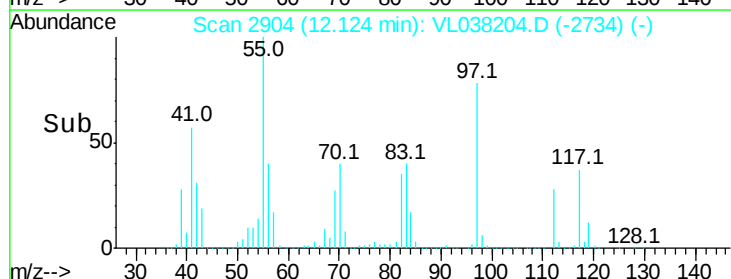
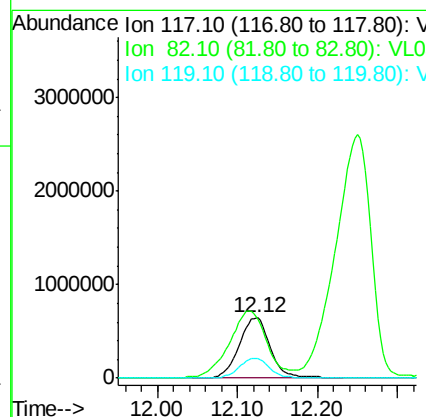
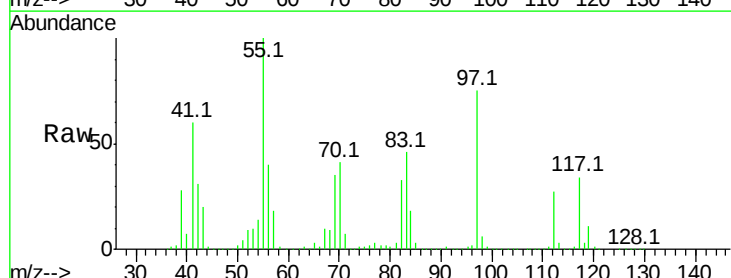
Tgt Ion:117 Resp: 1693411

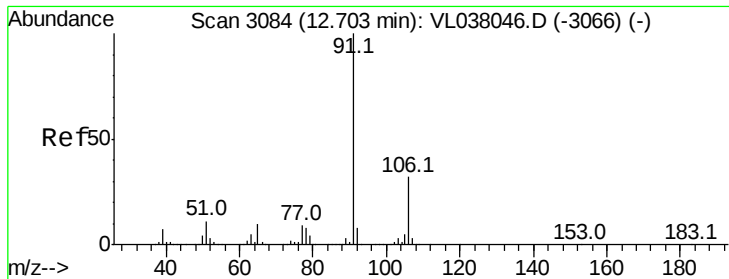
Ion Ratio Lower Upper

117 100

82 136.5 52.8 79.2#

119 32.9 26.8 40.2



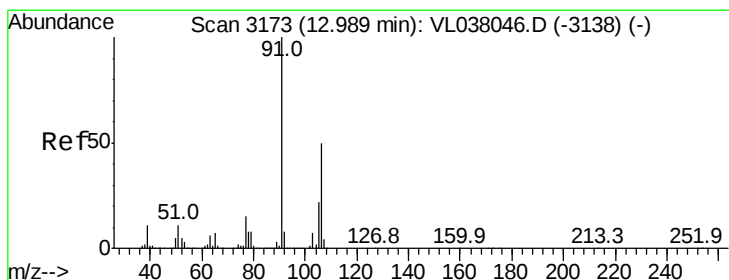
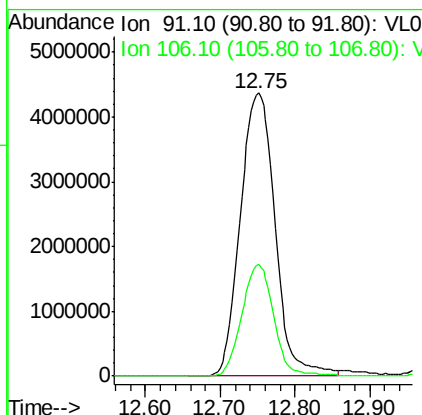
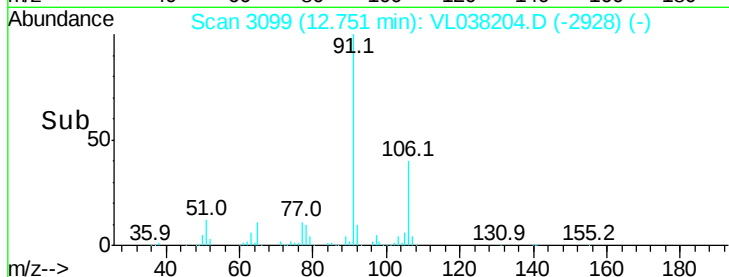
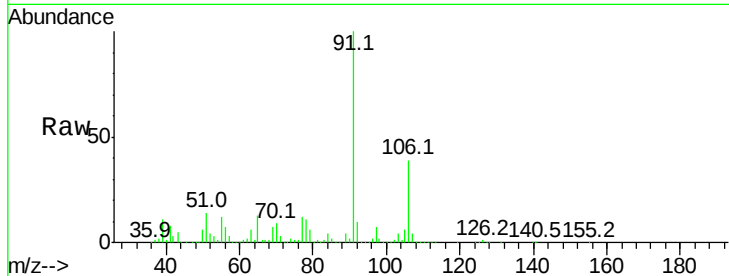


#58
Ethyl Benzene
Concen: 50.466 ppbv
RT: 12.75 min
Instrument: MSVOA_1
Delta R.T.: 0.02 min
Lab File: ClientSampleId : SG-1DL
Acq: 17 Dec 2021 00:58

Tot Ion:
Ion Ratio
91 100
106 39.

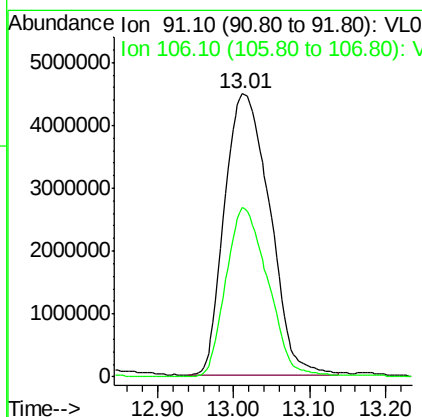
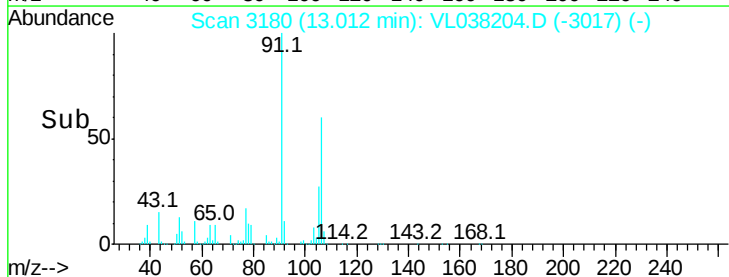
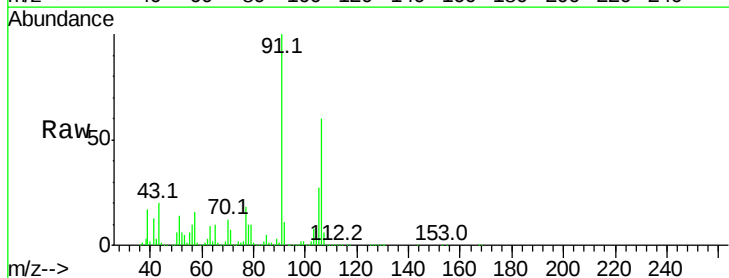
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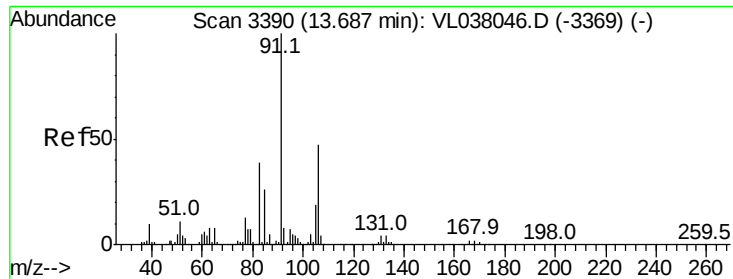
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#59
m/p-Xylene
Concen: 78.357 ppbv
RT: 13.01 min Scan# 3180
Delta R.T.: 0.02 min
Lab File: VL038204.D
Acq: 17 Dec 2021 00:58

Tgt Ion: 91 Resp:18461696
Ion Ratio Lower Upper
91 100
106 55.9 38.1 57.1



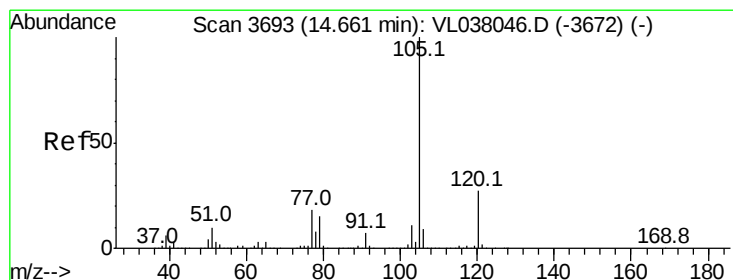
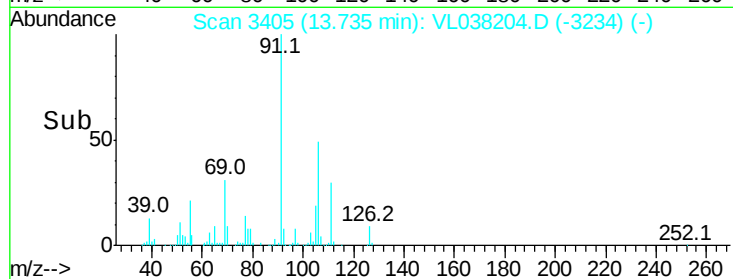
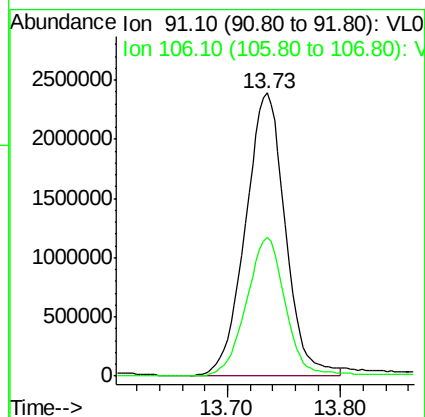
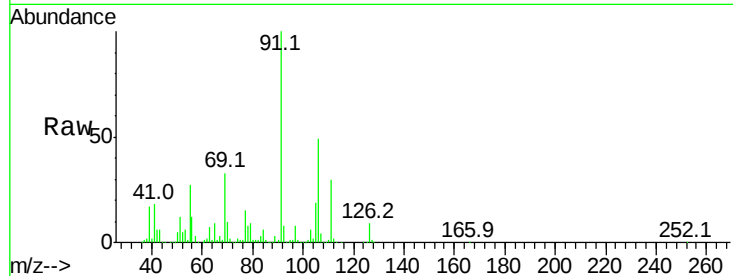


#60
o-Xylene
Concen: 26.702 ppbv
RT: 13.73
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Dec 2021 00:58

Tot Ion:
Ion Ratio
91 100
106 49.

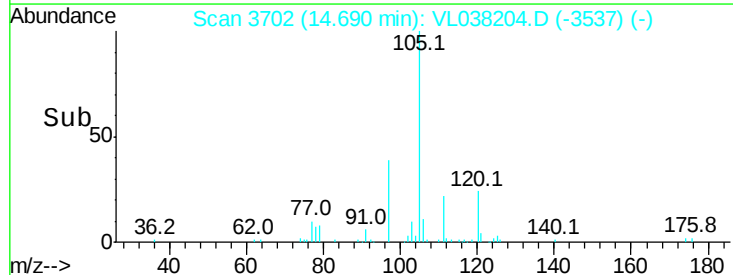
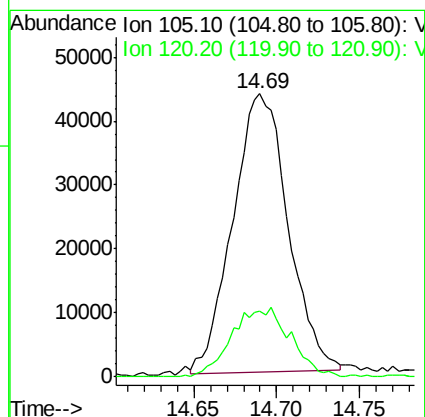
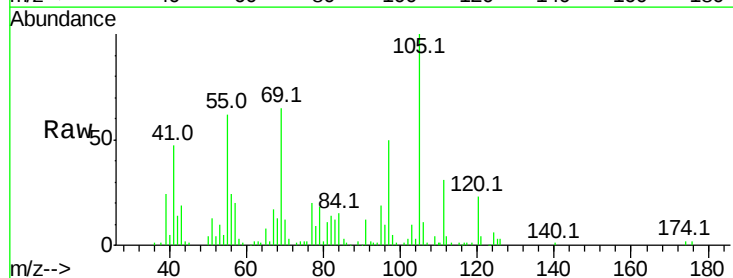
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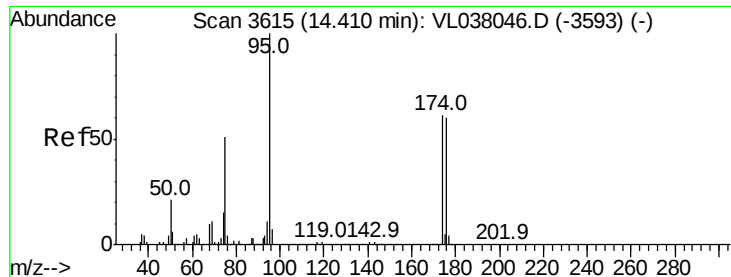
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#62
Isopropylbenzene
Concen: 0.327 ppbv
RT: 14.69 min Scan# 3702
Delta R.T. 0.03 min
Lab File: VL038204.D
Acq: 17 Dec 2021 00:58

Tgt Ion:105 Resp: 101599
Ion Ratio Lower Upper
105 100
120 26.4 21.8 32.6



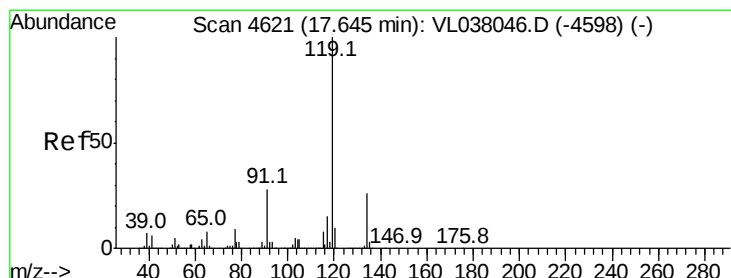
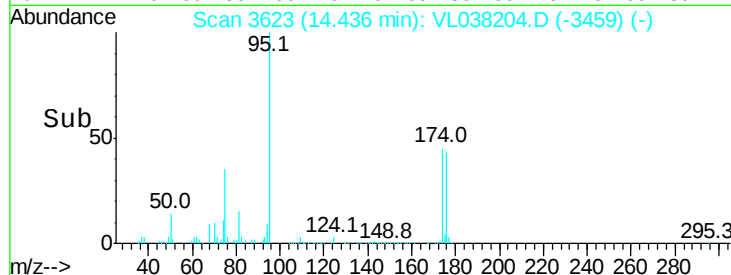
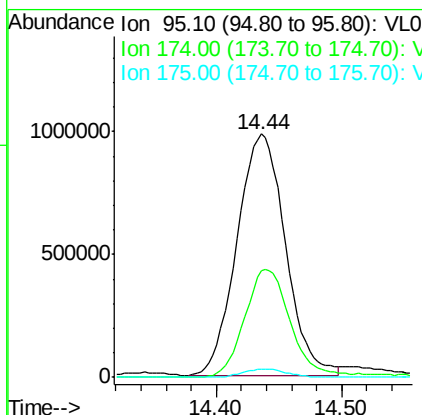
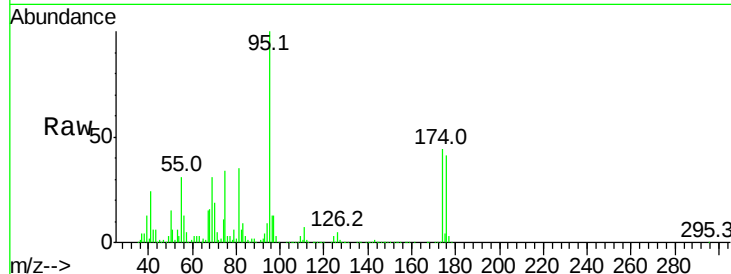


#68
 1-Bromo-4-Fluorobenzene
 Concen: 21.566 ppbv
 RT: 14.44 min
 Delta R.T.: 0.02 min
 Lab File: VL038204.D
 Acq: 17 Dec 2021 00:58

Tot Ion:
 Ion Ratio
 95 100
 174 44.1
 175 3.1

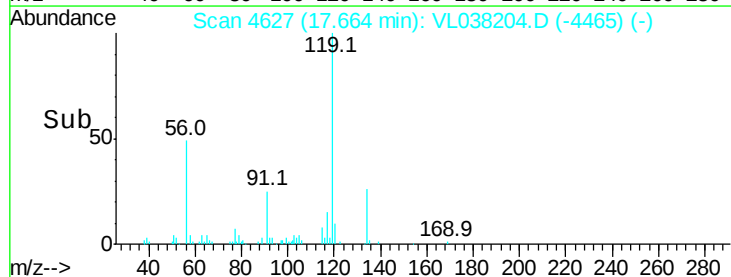
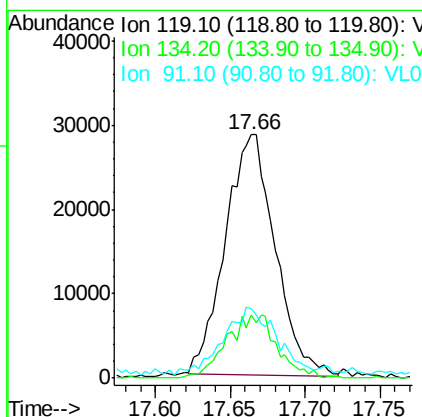
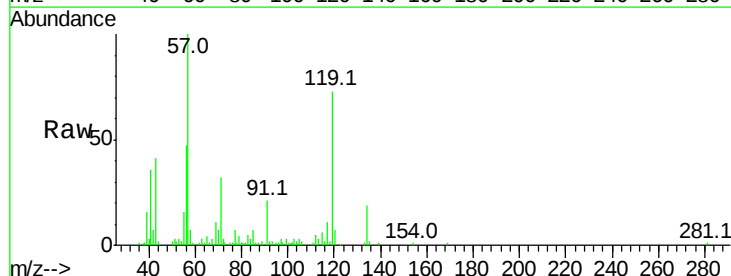
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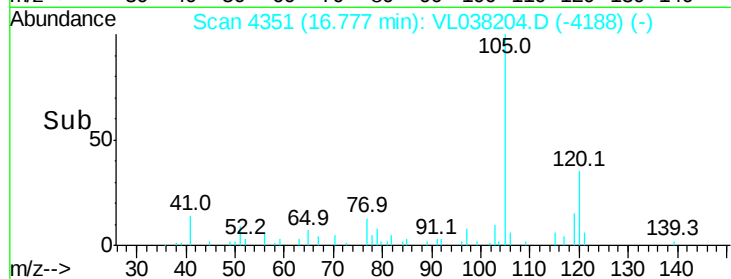
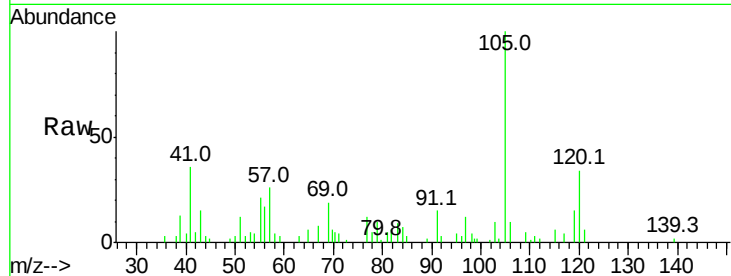
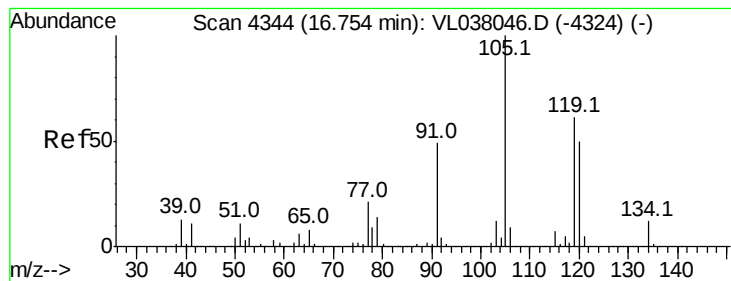
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#69
 p-Isopropyltoluene
 Concen: 0.222 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T.: 0.02 min
 Lab File: VL038204.D
 Acq: 17 Dec 2021 00:58

Tgt Ion:119 Resp: 66074
 Ion Ratio Lower Upper
 119 100
 134 26.9 20.6 30.8
 91 33.6 22.2 33.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.108 ppbv m

RT: 16.78 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 00:38 SG-1DL

Tot Ion:1

Ion Rati

105 100

120 34.

91 15.

77 12.3 16.6 25.0#

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021

