

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038202.D
 Acq On : 16 Dec 2021 23:34
 Operator : SY/AP
 Sample : M5119-01DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-2DL2

Manual Integrations
 APPROVED

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

Quant Time: Dec 17 08:06:57 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	5.67	49	925542	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2870499	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2446778	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1968497	11.15	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.50%

Target Compounds

					Ovalue
4) Chloromethane	3.15	50	22292	0.337 ppbv	89
5) Vinyl Chloride	3.27	62	5240m	0.081 ppbv	
9) Propene	3.03	41	3261559m	45.564 ppbv	
10) Heptane	8.13	43	1255041	7.094 ppbv	100
13) Ethanol	3.63	45	5951	0.860 ppbv	100
15) Acetone	3.87	43	154059	1.920 ppbv #	84
19) Isopropyl Alcohol	3.99	45	192924	3.327 ppbv #	97
20) Methylene Chloride	4.36	84	25154m	0.560 ppbv	
26) Hexane	5.70	57	20455m	0.159 ppbv	
29) Chloroform	5.76	83	121189	0.640 ppbv	97
30) Cyclohexane	7.14	84	12181m	0.104 ppbv	
34) 2-Butanone	5.27	43	123484m	1.067 ppbv	
36) Benzene	6.90	78	40918	0.143 ppbv #	92
53) Toluene	9.81	91	69261	0.210 ppbv	97
58) Ethyl Benzene	12.72	91	2800700	6.925 ppbv	100
59) m/p-Xylene	12.98	91	2848008	8.366 ppbv	95
60) o-Xylene	13.70	91	598943	1.897 ppbv	98

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
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Manual Integrations
APPROVED

Quant Time: Dec 17 08:06:57 2021

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821

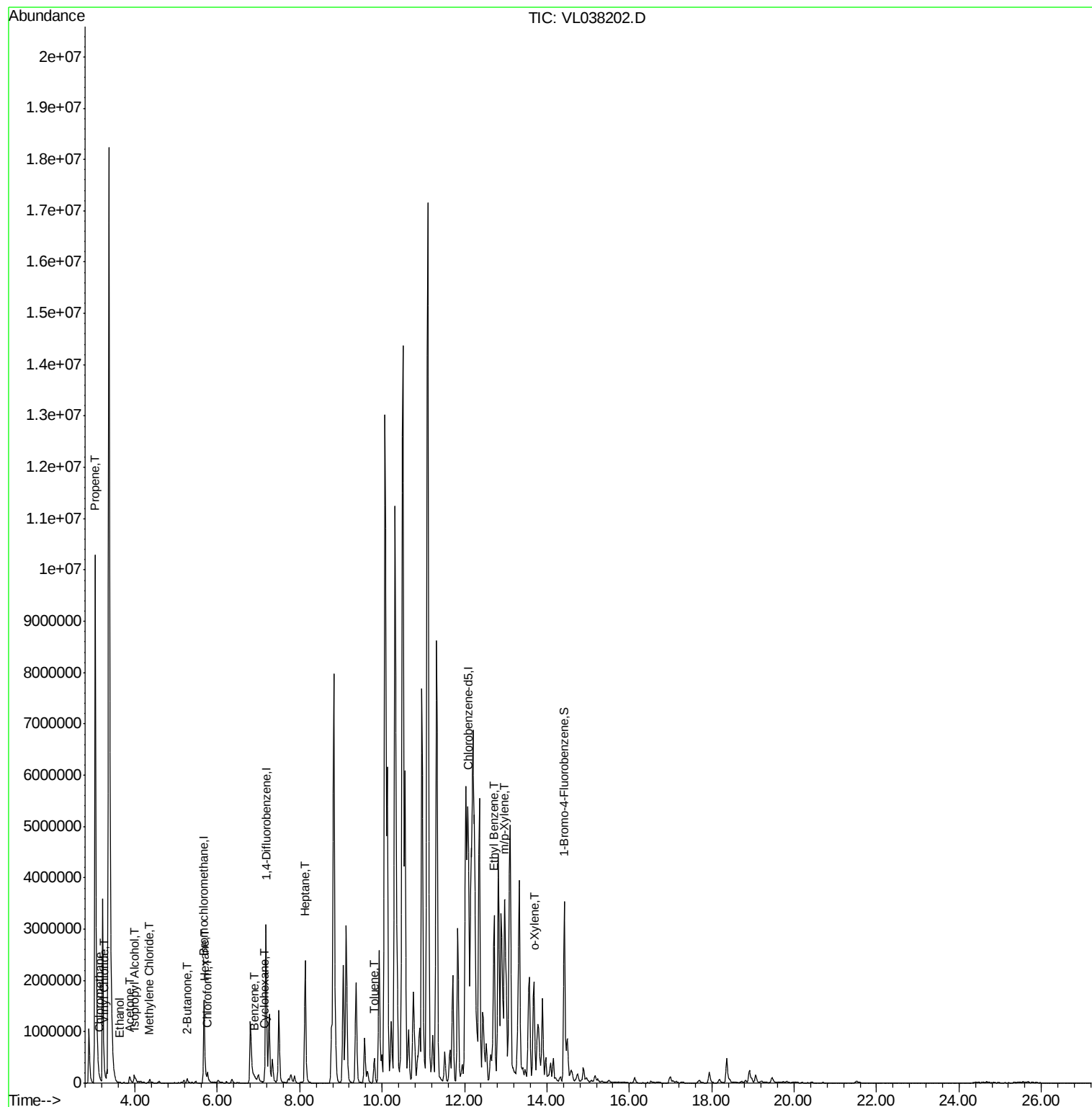
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

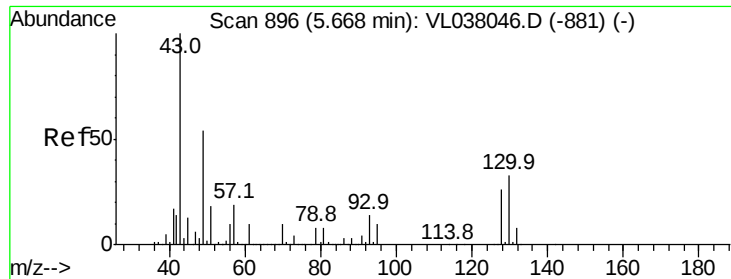
QLast Update : Thu Nov 18 13:16:09 2021

Response via : Initial Calibration

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 23:34 SG-2DL2

Tot Ion:

Ion Ratio

49 100

128 52.

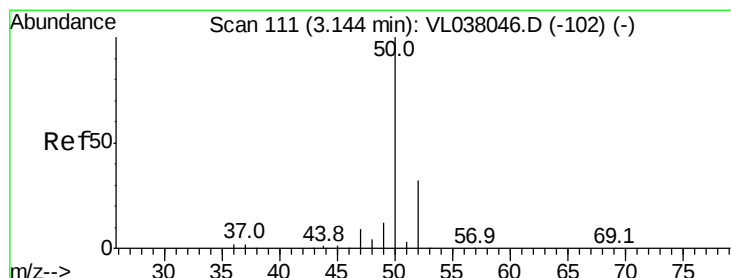
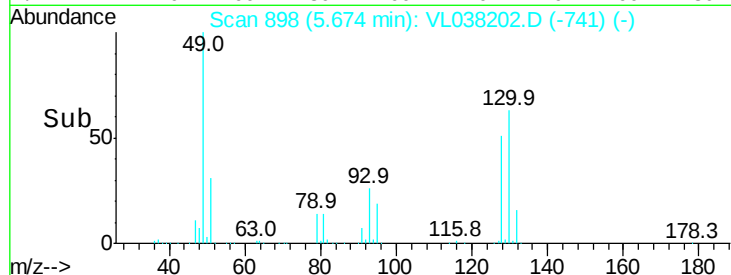
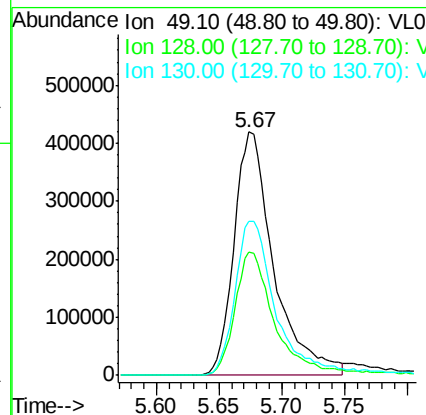
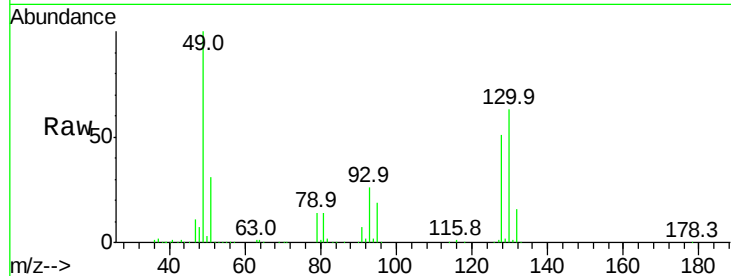
130 67.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#4

Chloromethane

Concen: 0.337 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL038202.D

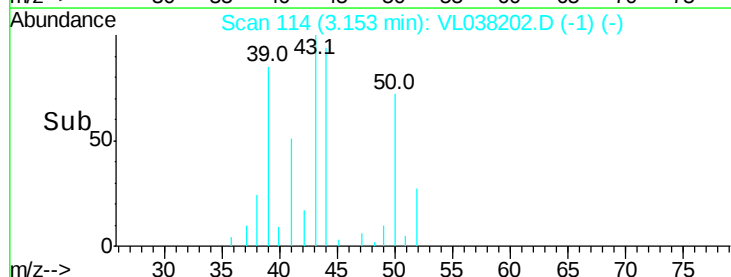
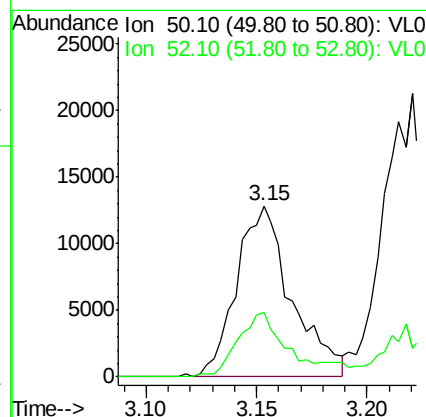
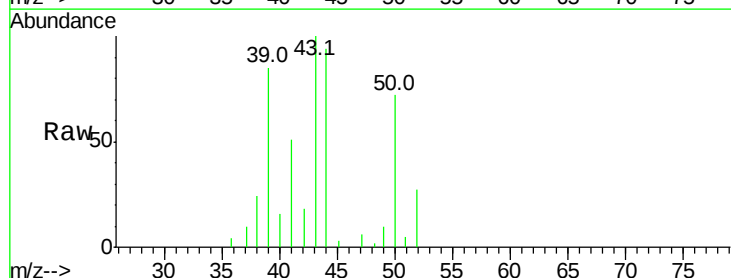
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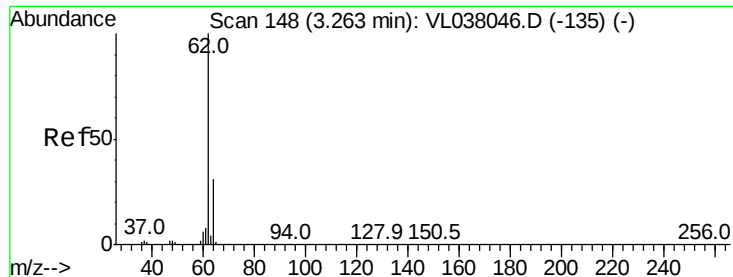
Tgt Ion: 50 Resp: 22292

Ion Ratio Lower Upper

50 100

52 37.6 25.4 38.0





#5

Vinyl Chloride

Concen: 0.081 ppbv m

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 23:34 SG-2DL2

Tot Ion:

Ion Ratio

62 100

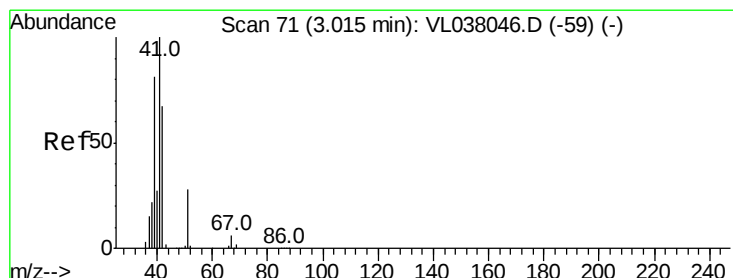
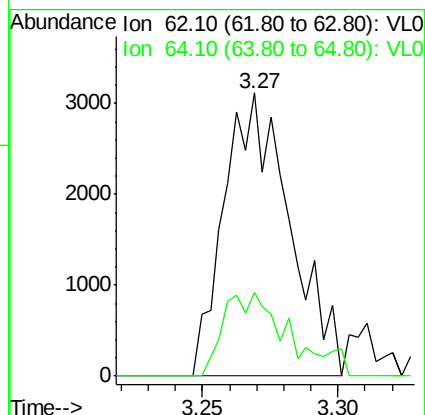
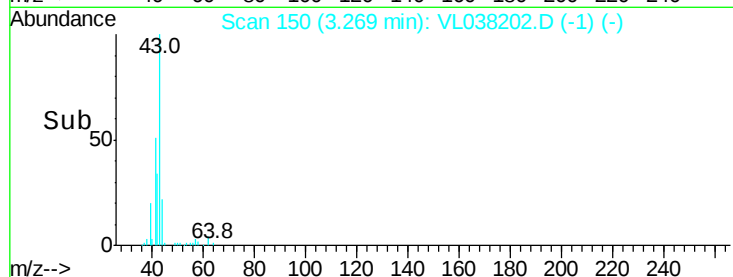
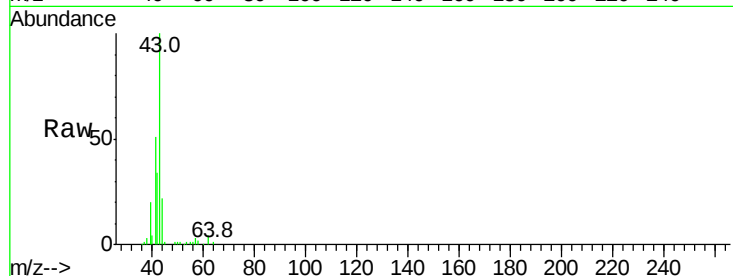
64 29.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#9

Propene

Concen: 45.564 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL038202.D

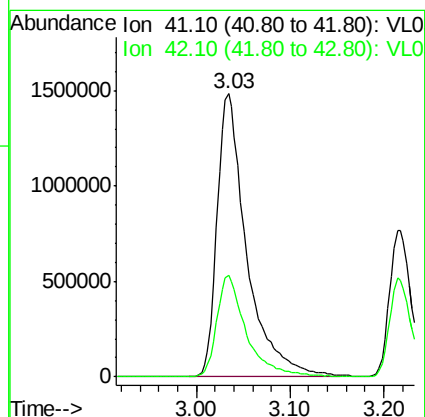
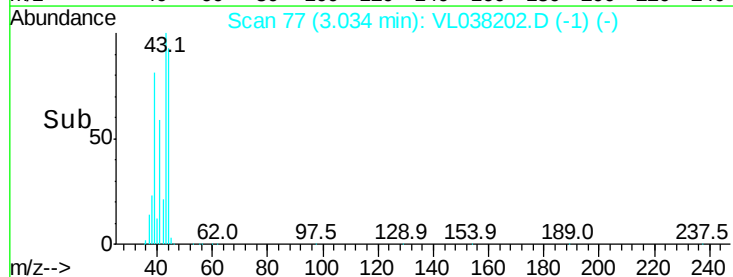
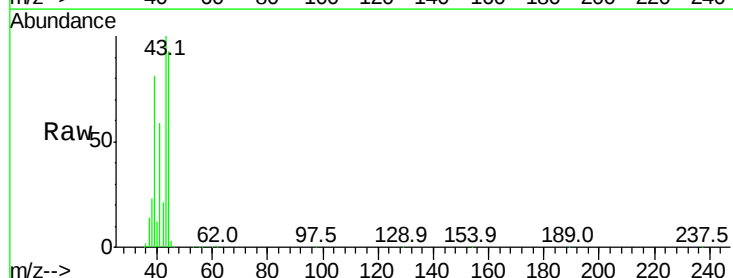
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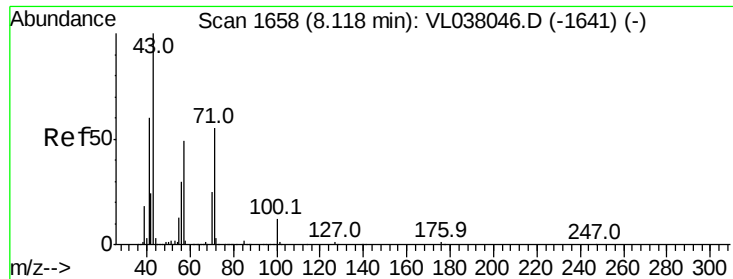
Tgt Ion: 41 Resp: 3261559

Ion Ratio Lower Upper

41 100

42 28.3 53.8 80.8#



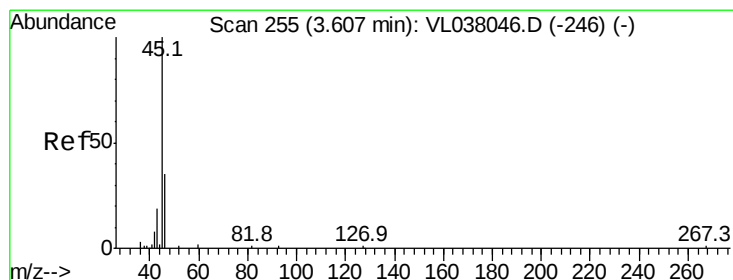
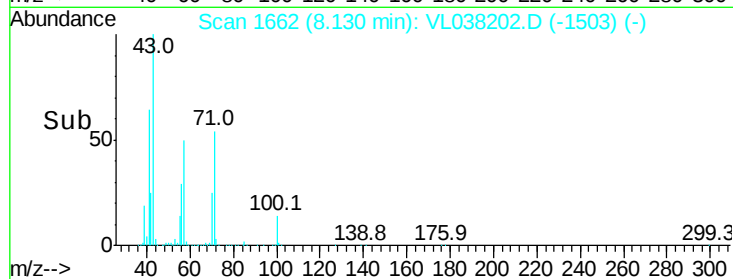
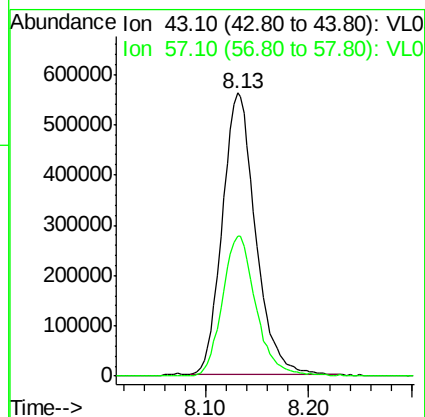
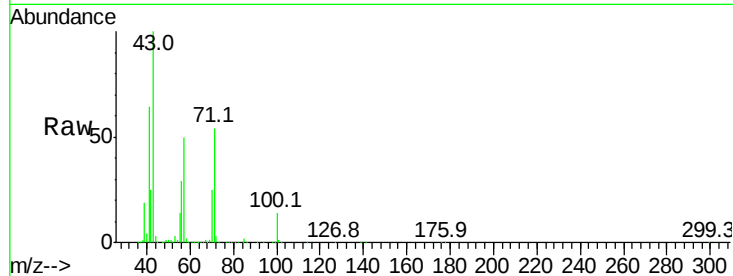


#10
Heptane
Concen: 7.094 ppbv
RT: 8.13
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 23:34

Tot Ion:
Ion Ratio
43 100
57 50.

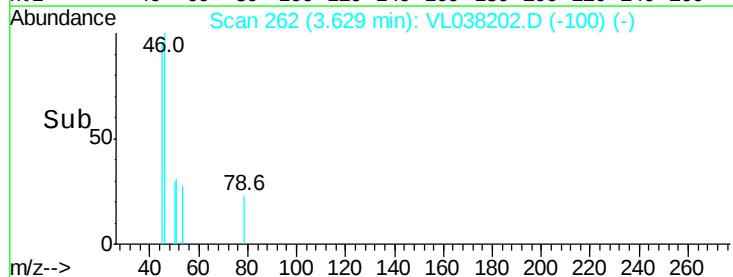
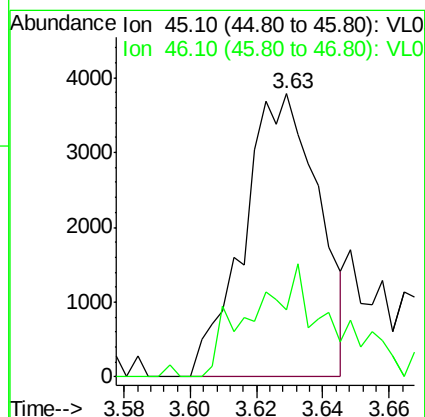
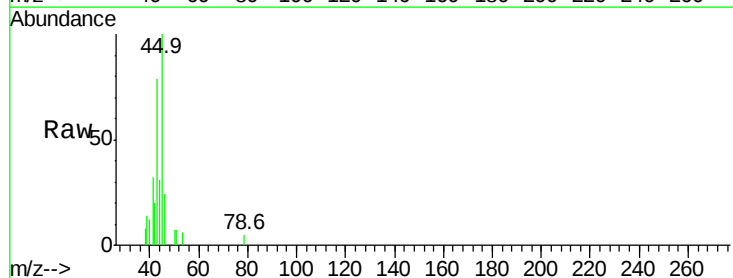
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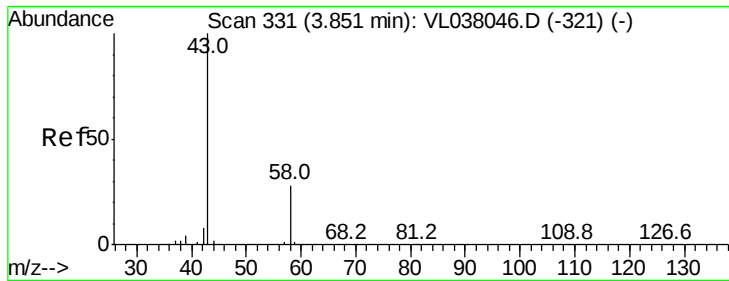
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#13
Ethanol
Concen: 0.860 ppbv
RT: 3.63 min Scan# 262
Delta R.T.: 0.02 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 45 Resp: 5951
Ion Ratio Lower Upper
45 100
46 44.2 17.6 70.2



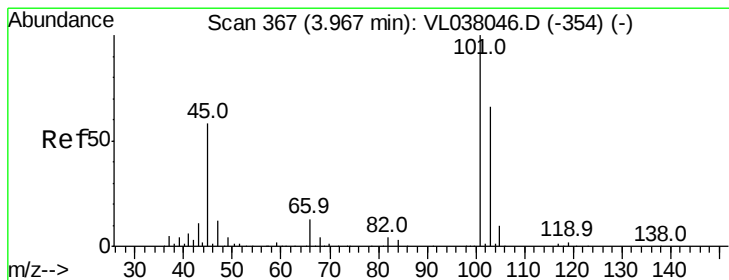
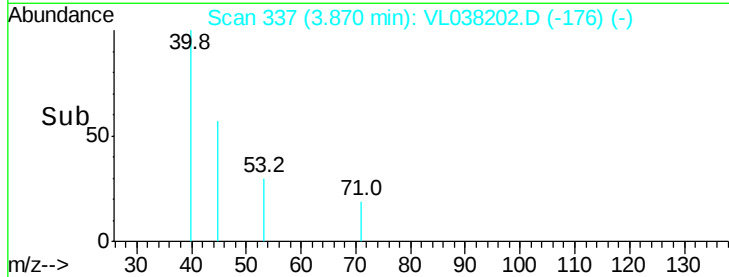
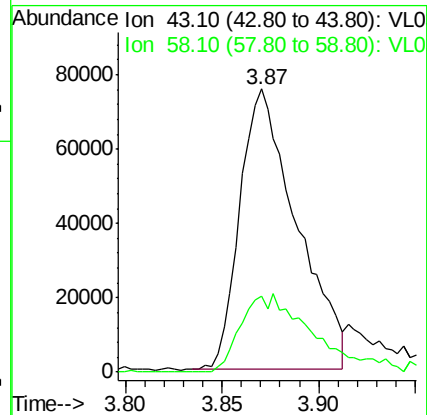
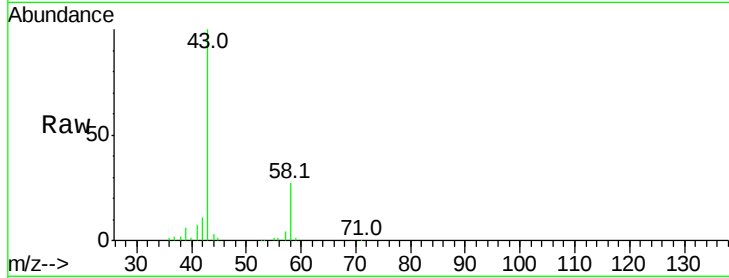


#15
Acetone
Concen: 1.920 ppbv
RT: 3.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 23:34

Tot Ion:
Ion Ratio
43 100
58 36.

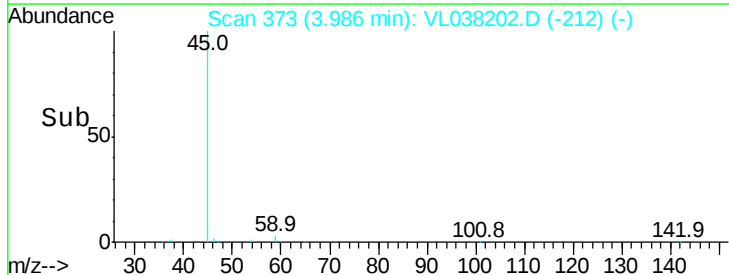
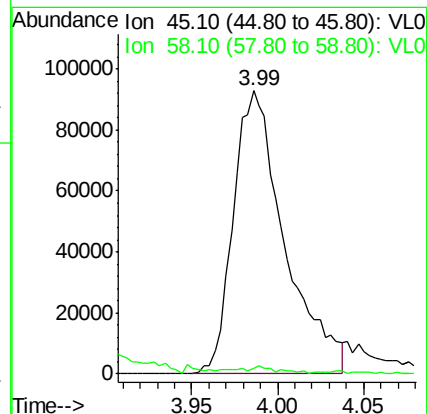
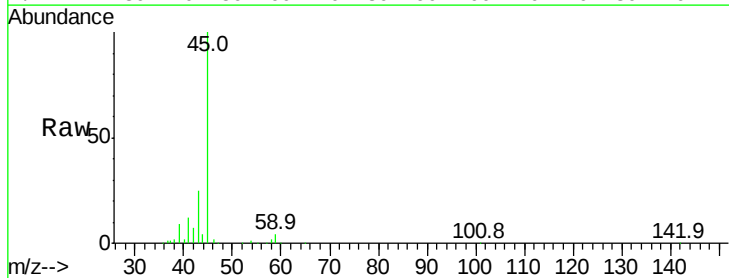
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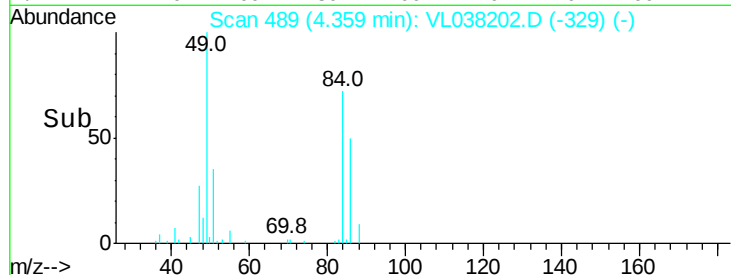
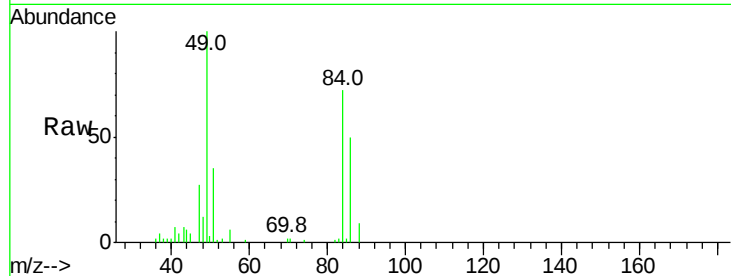
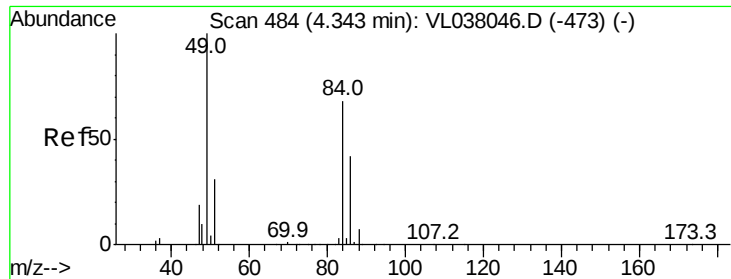
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#19
Isopropyl Alcohol
Concen: 3.327 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 45 Resp: 192924
Ion Ratio Lower Upper
45 100
58 2.8 1.4 2.0#



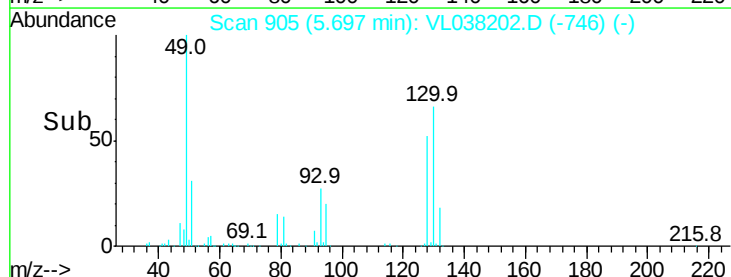
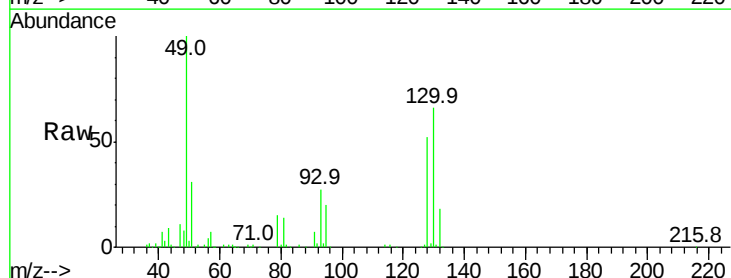
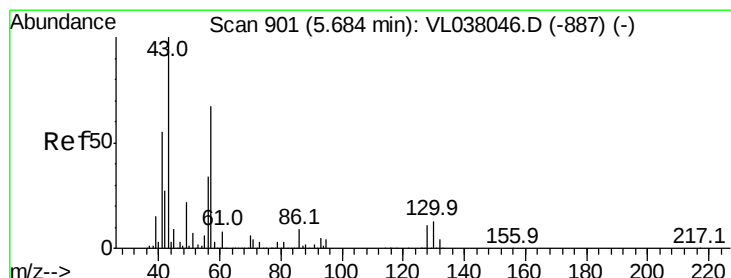
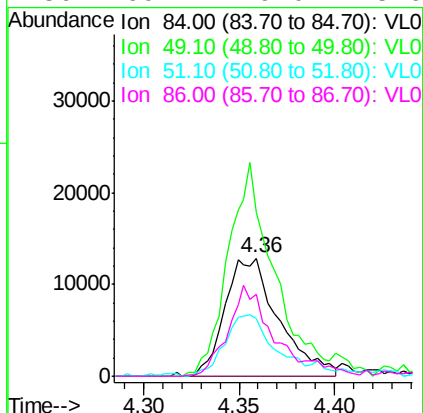


#20
Methvlene Chloride
Concen: 0.560 ppbv m
RT: 4.36
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 16 Dec 2021 23:34

Tot Ion:
Ion Ratio
84 100
49 138.
51 49.
86 69.2 49.0 73.6

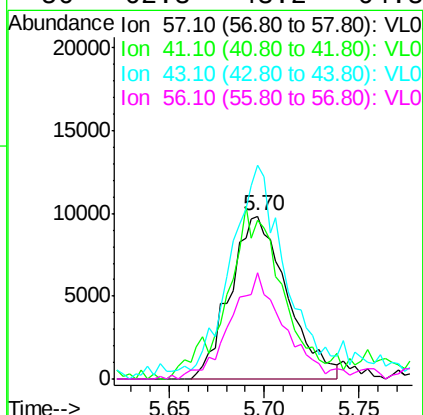
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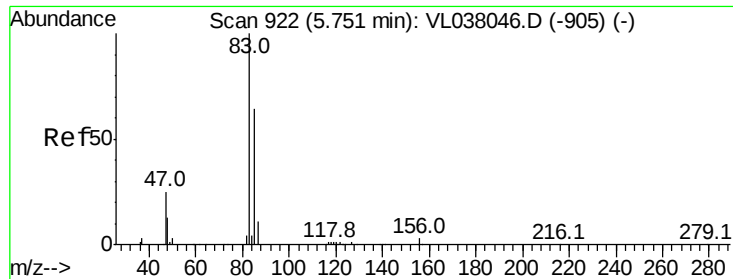
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#26
Hexane
Concen: 0.159 ppbv m
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 57 Resp: 20455
Ion Ratio Lower Upper
57 100
41 111.1 71.4 107.2#
43 136.0 174.6 261.8#
56 62.3 43.2 64.8



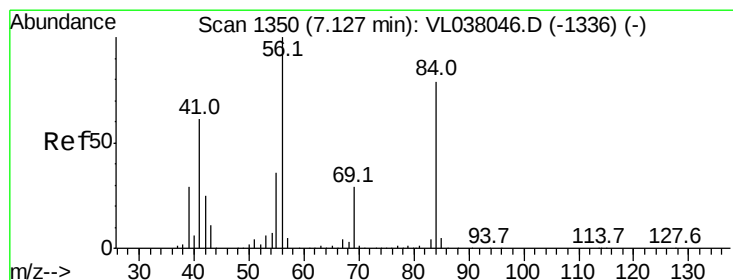
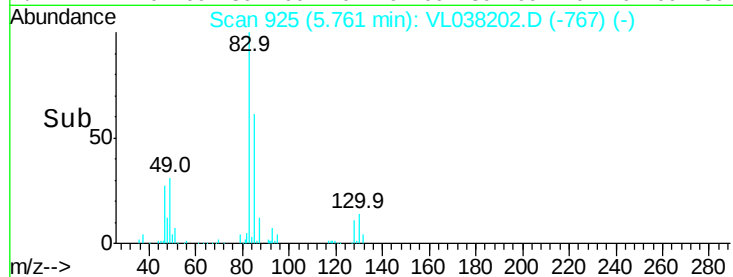
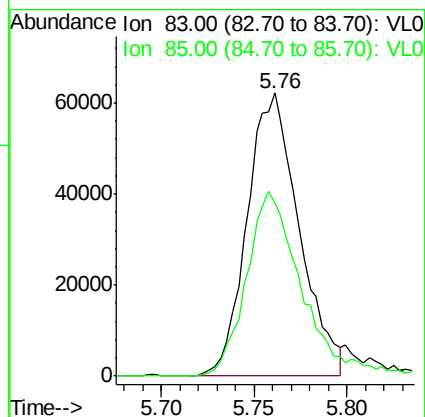
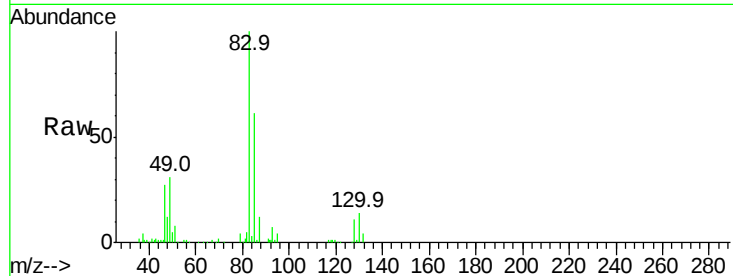


#29
Chloroform
Concen: 0.640 ppbv
RT: 5.76
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 23:34

Tot Ion:
Ion Ratio
83 100
85 61.

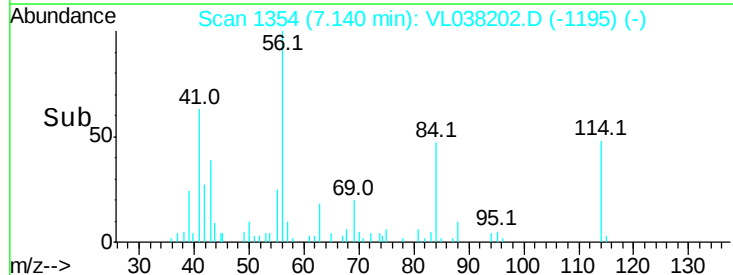
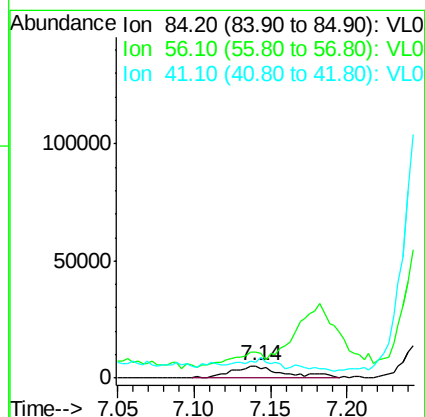
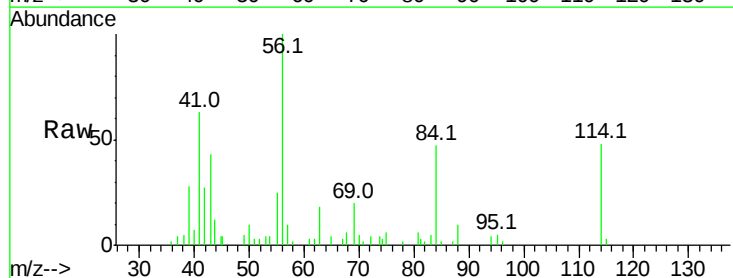
Manual Integrations
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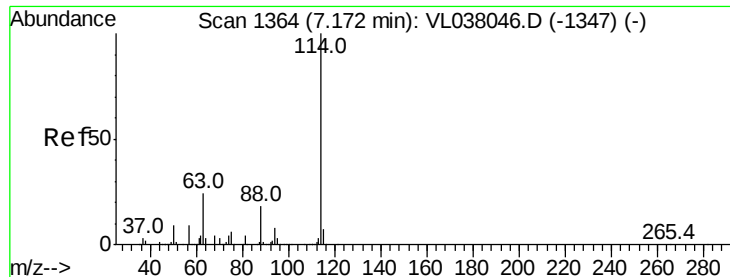
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#30
Cyclohexane
Concen: 0.104 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 84 Resp: 12181
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 205.3 64.4 96.6#



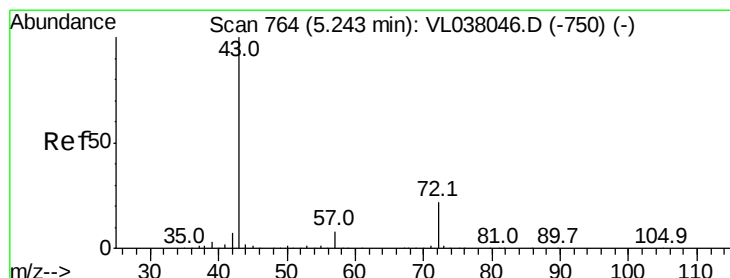
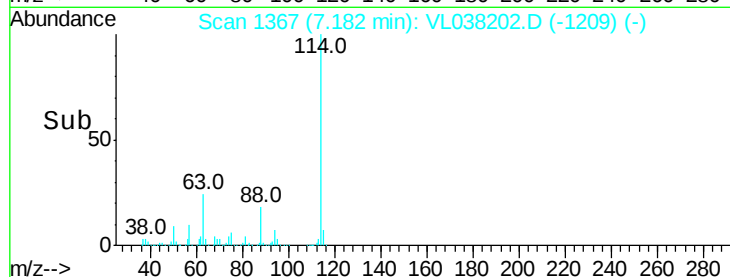
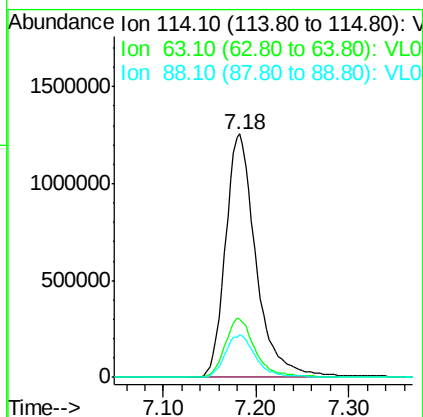
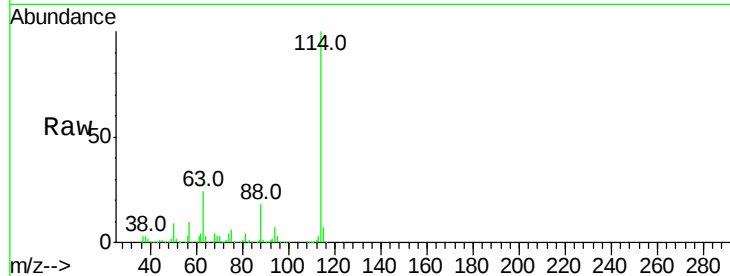


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 23:34

Tot Ion: 1
 Ion Ratio
 114 100
 63 24.
 88 17.

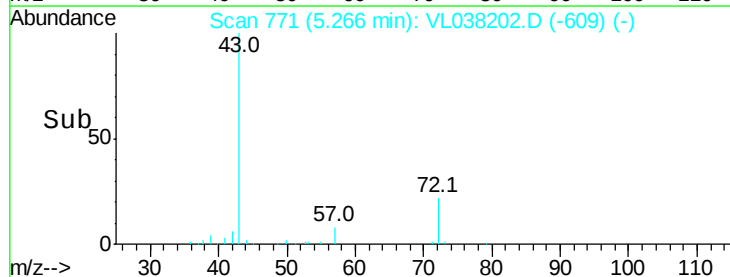
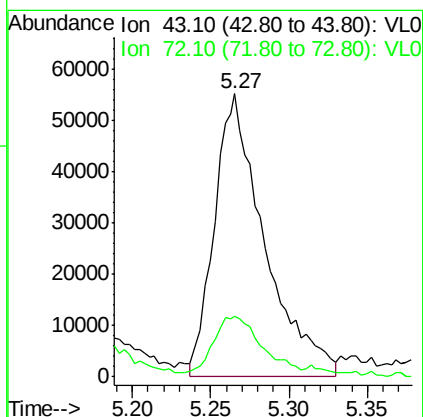
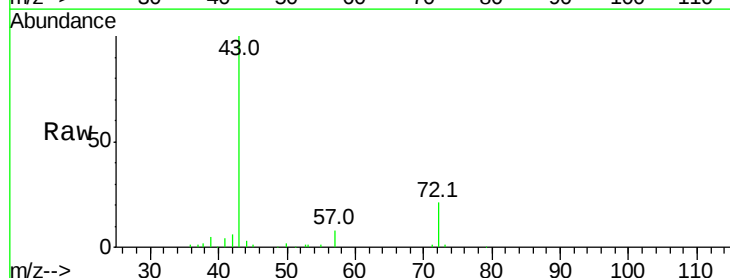
Manual Integrations
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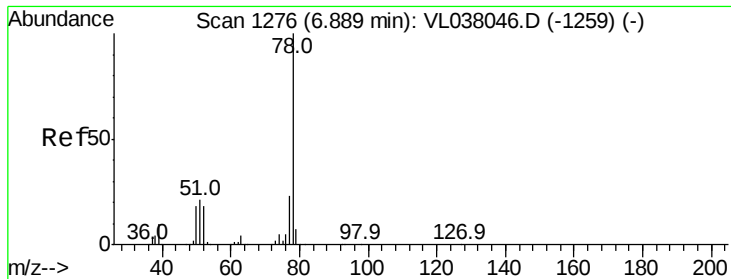
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#34
 2-Butanone
 Concen: 1.067 ppbv m
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL038202.D
 Acq: 16 Dec 2021 23:34

Tgt Ion: 43 Resp: 123484
 Ion Ratio Lower Upper
 43 100
 72 24.4 18.8 28.2



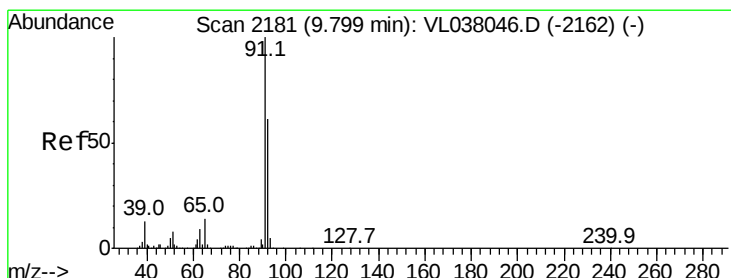
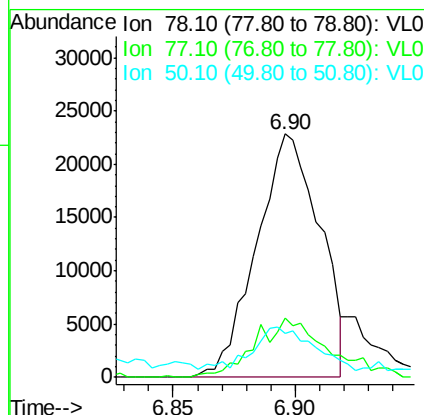
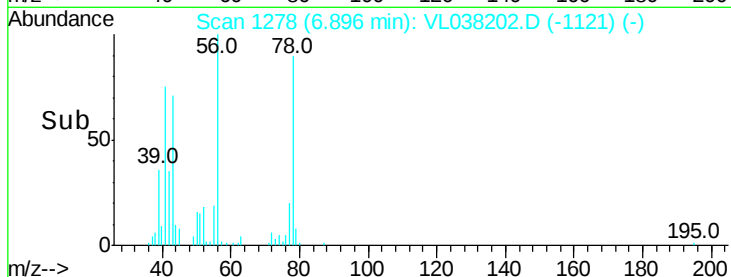
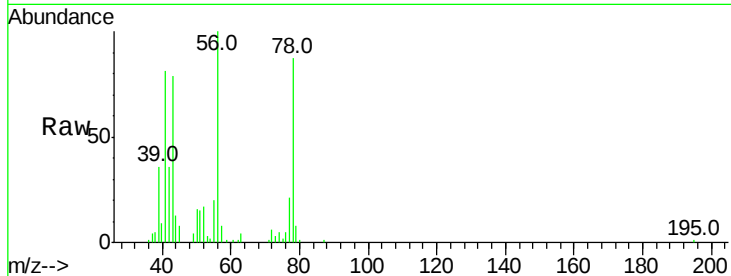


#36
Benzene
Concen: 0.143 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 23:34 SG-2DL2

Tot Ion:
Ion Ratio
78 100
77 24.
50 12.

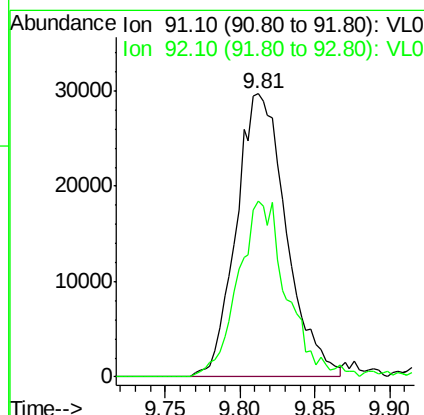
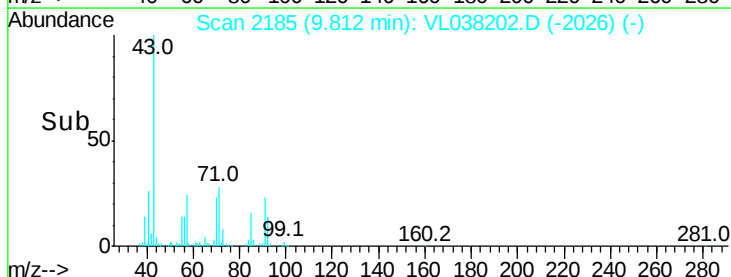
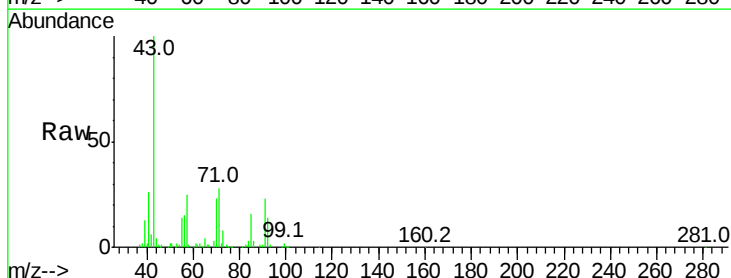
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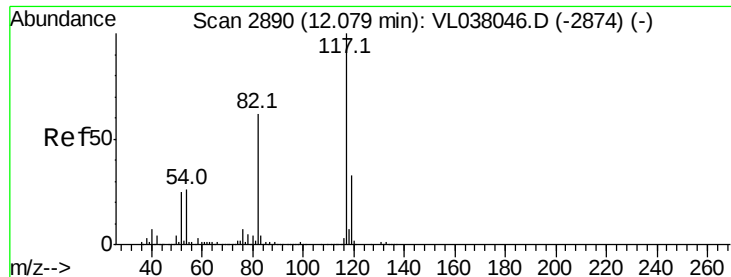
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#53
Toluene
Concen: 0.210 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. 0.01 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 91 Resp: 69261
Ion Ratio Lower Upper
91 100
92 60.2 49.7 74.5



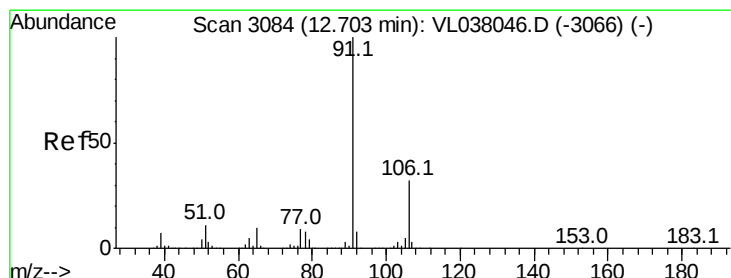
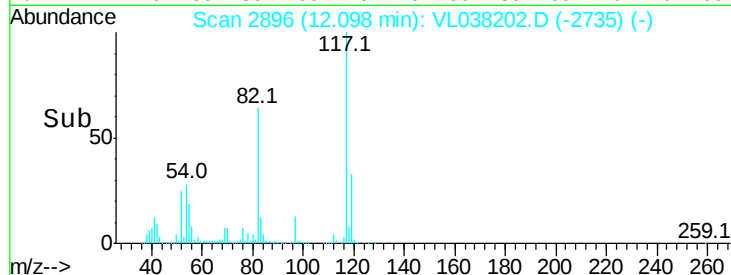
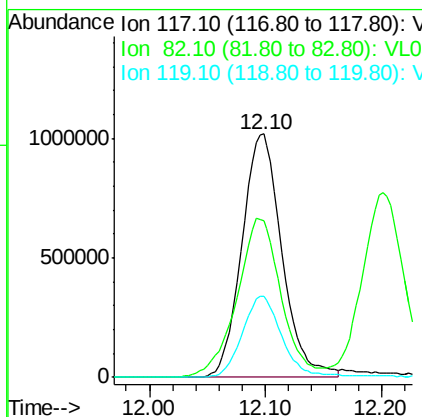
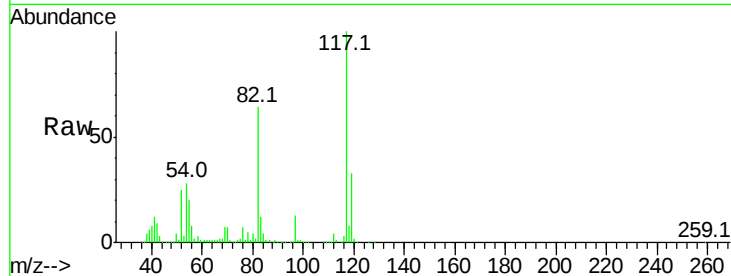


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.: 0.02 min
Lab File: ClientSampleId : SG-2DL2
Acq: 16 Dec 2021 23:34

Tot Ion: 1
Ion Ratio
117 100
82 72.
119 34.

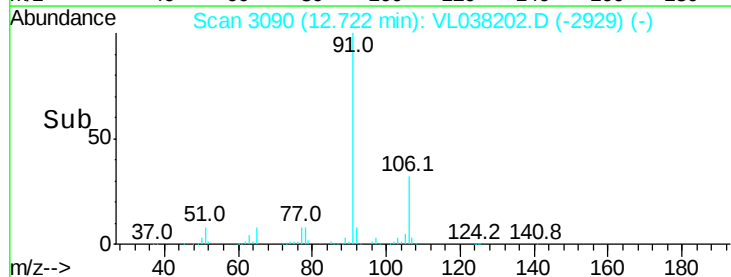
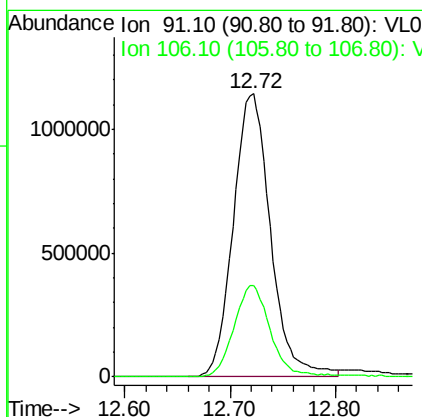
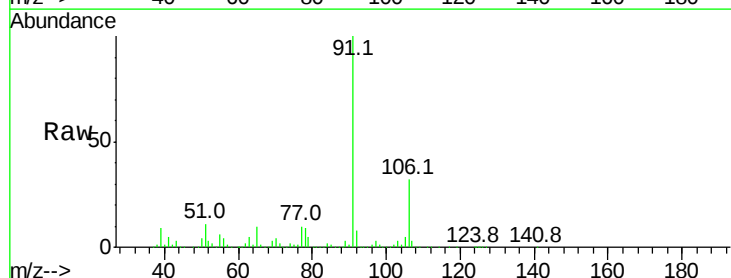
Manual Integrations
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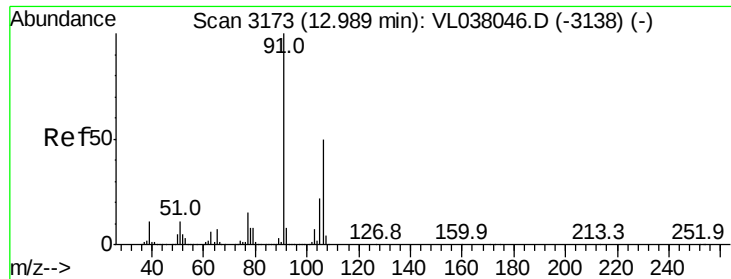
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#58
Ethyl Benzene
Concen: 6.925 ppbv
RT: 12.72 min Scan# 3090
Delta R.T.: 0.02 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 91 Resp: 2800700
Ion Ratio Lower Upper
91 100
106 32.1 25.8 38.6





#59
m/p-Xylene
Concen: 8.366 ppbv
RT: 12.98 min
Delta R.T.: 0.01 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Instrument : MSVOA_1

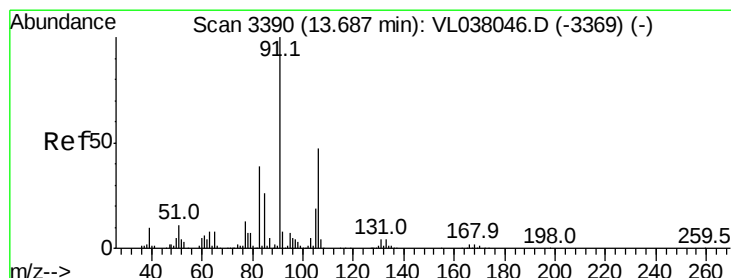
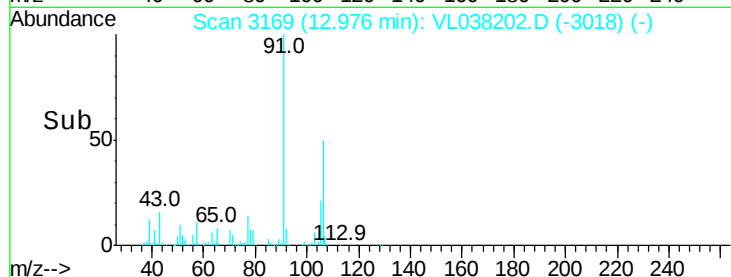
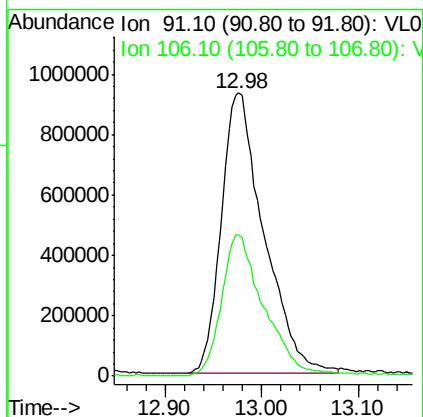
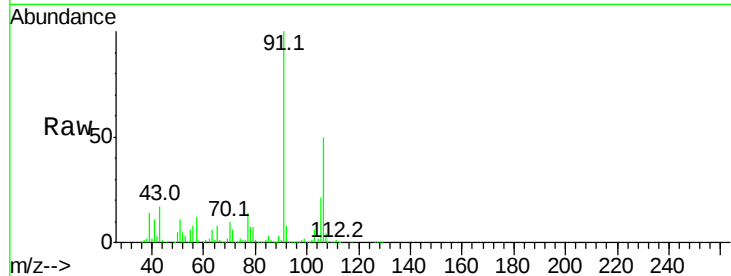
Client SampleId :

SG-2DL2

Tot Ion:
Ion Ratio
91 100
106 51.

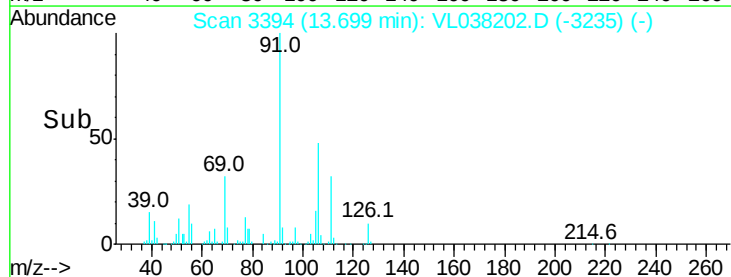
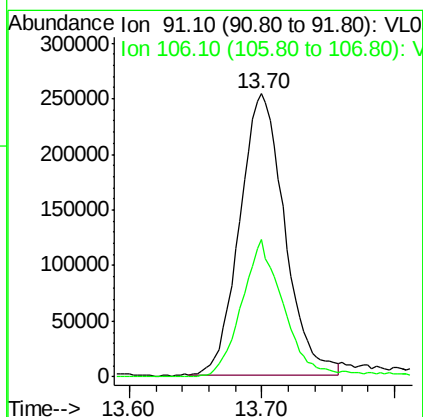
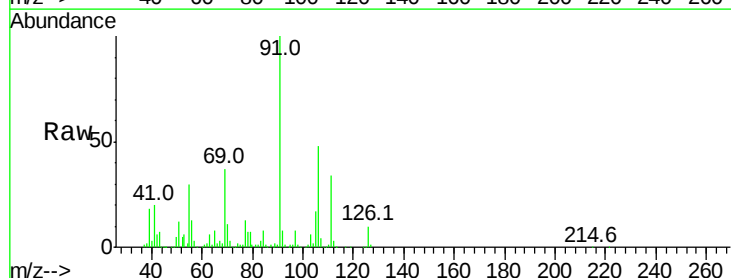
Manual Integrations
APPROVED

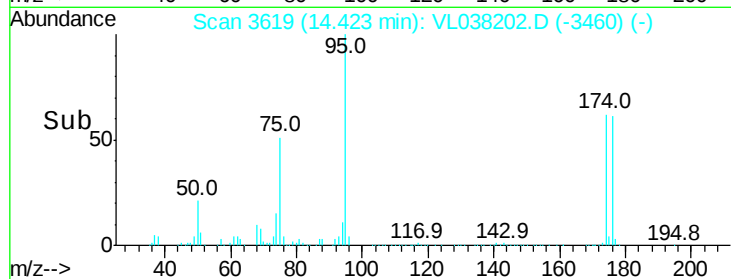
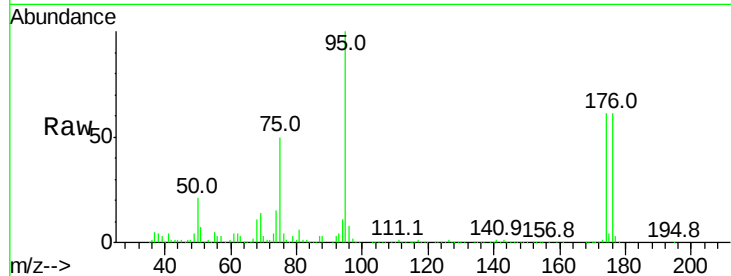
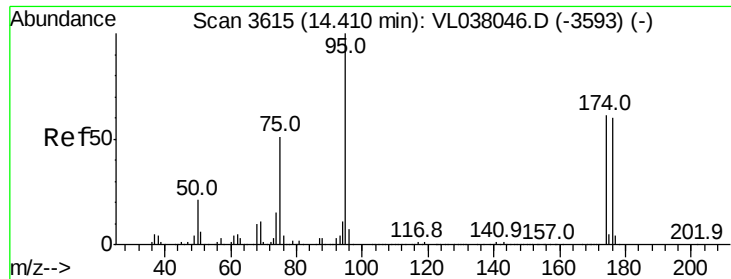
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#60
o-Xylene
Concen: 1.897 ppbv
RT: 13.70 min Scan# 3394
Delta R.T.: 0.01 min
Lab File: VL038202.D
Acq: 16 Dec 2021 23:34

Tgt Ion: 91 Resp: 598943
Ion Ratio Lower Upper
91 100
106 46.8 24.2 72.6





#68

1-Bromo-4-Fluorobenzene

Concen: 11.154 ppbv

RT: 14.42 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 SG-2DL2

23.34

Tot Ion:

Ion Ratio

95 100

174 63.

175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021

