

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038188.D
 Acq On : 16 Dec 2021 14:05
 Operator : SY/AP
 Sample : M5117-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1DUP

Manual Integrations
 APPROVED

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

Quant Time: Dec 17 05:45:07 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	1040108	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2697773	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2305133	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1790001	10.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	38364	0.223	ppbv	93
3) Chlorodifluoromethane	2.99	51	241532m	1.106	ppbv	
4) Chloromethane	3.14	50	27387	0.368	ppbv	100
9) Propene	3.03	41	413014m	5.134	ppbv	
10) Heptane	8.13	43	37284m	0.188	ppbv	
11) Trichlorofluoromethane	3.95	101	33005m	0.202	ppbv	
13) Ethanol	3.61	45	1826543	234.961	ppbv	90
15) Acetone	3.85	43	454328m	5.038	ppbv	
19) Isopropyl Alcohol	3.98	45	262018	4.021	ppbv #	95
20) Methylene Chloride	4.35	84	1874029	37.101	ppbv	99
26) Hexane	5.69	57	1233361	8.538	ppbv #	46
30) Cyclohexane	7.12	84	23520m	0.179	ppbv	
34) 2-Butanone	5.25	43	45365	0.417	ppbv #	90
35) Carbon Tetrachloride	7.02	117	10866m	0.057	ppbv	
36) Benzene	6.89	78	160085	0.595	ppbv	93
38) Trichloroethene	7.83	130	6621m	0.065	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	134913	0.300	ppbv #	77
52) Tetrachloroethene	11.22	164	3694m	0.037	ppbv	
53) Toluene	9.81	91	350743	1.133	ppbv	98
58) Ethyl Benzene	12.71	91	79413m	0.208	ppbv	
59) m/p-Xylene	12.97	91	205998	0.642	ppbv	95
60) o-Xylene	13.69	91	71790	0.241	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	67963m	0.209	ppbv	

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

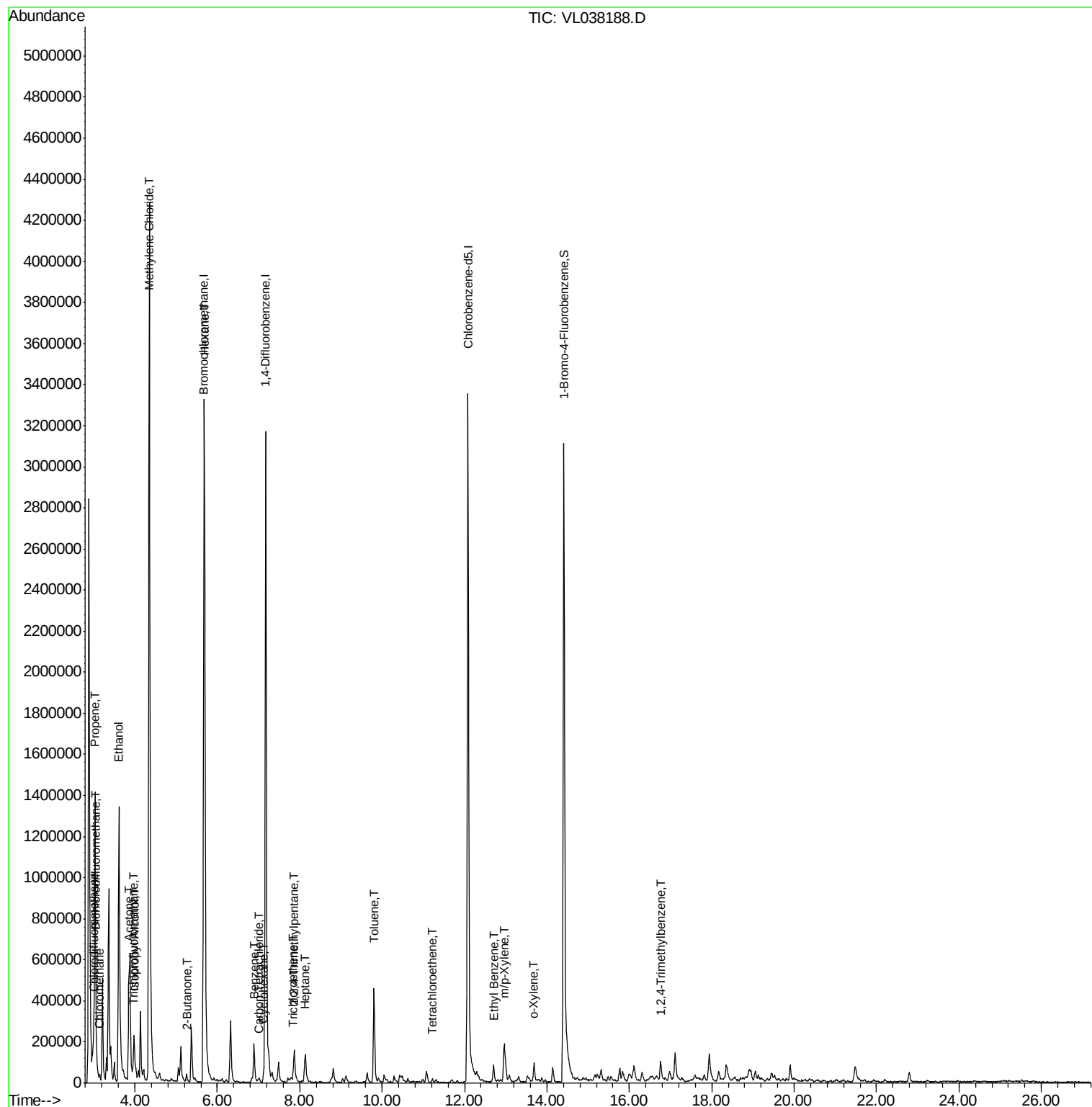
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
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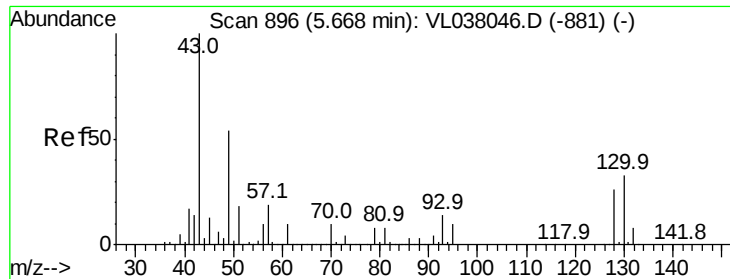
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Quant Time: Dec 17 05:45:07 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: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 14:05

Tot Ion:

Ion Ratio

49 100

128 46.

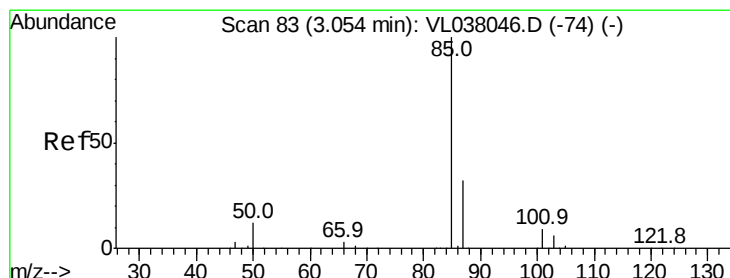
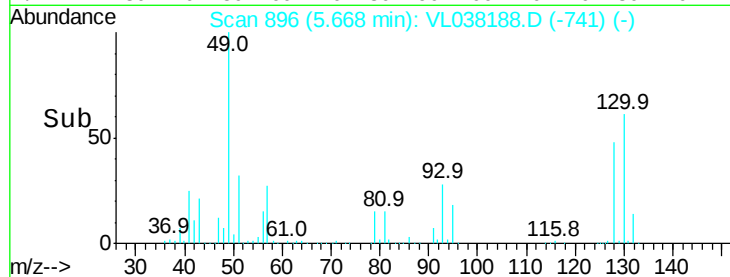
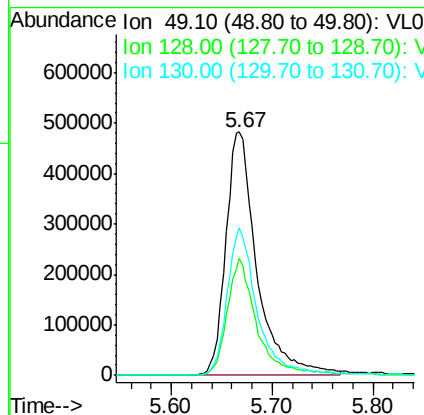
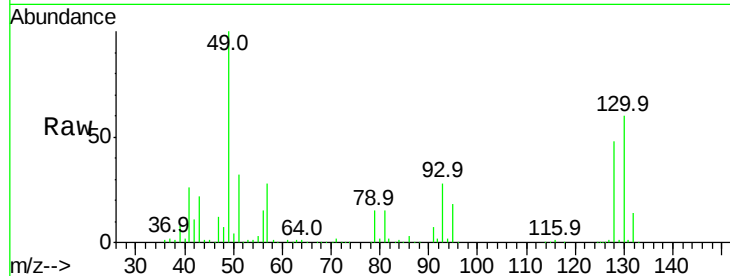
130 59.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#2

Dichlorodifluoromethane

Concen: 0.223 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038188.D

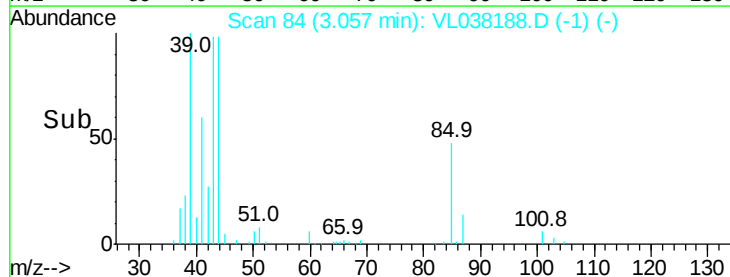
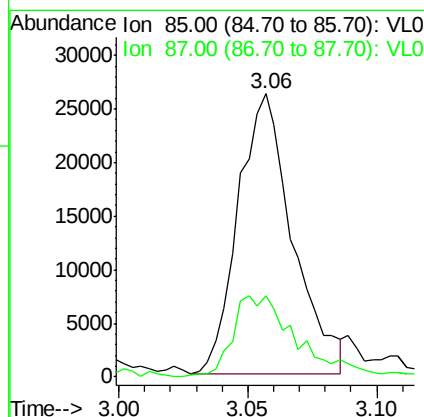
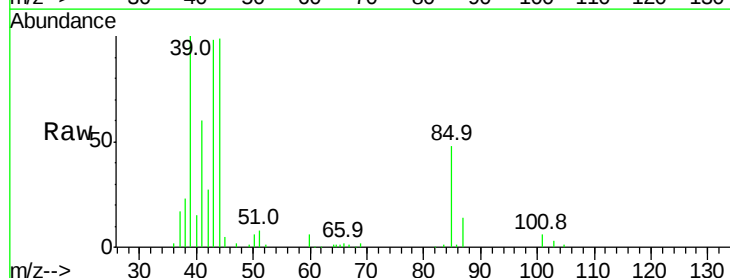
Acq: 16 Dec 2021 14:05

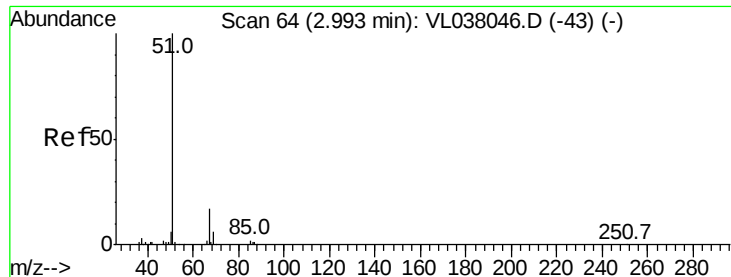
Tgt Ion: 85 Resp: 38364

Ion Ratio Lower Upper

85 100

87 28.2 25.8 38.6



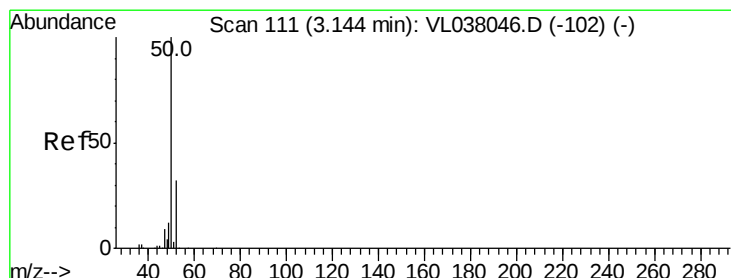
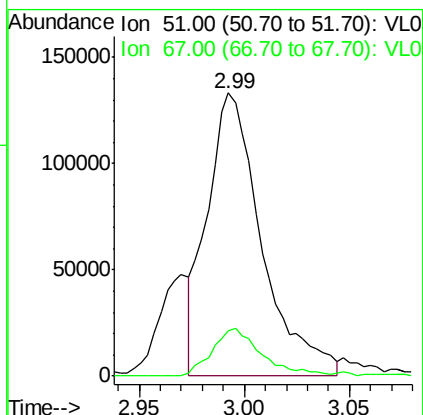
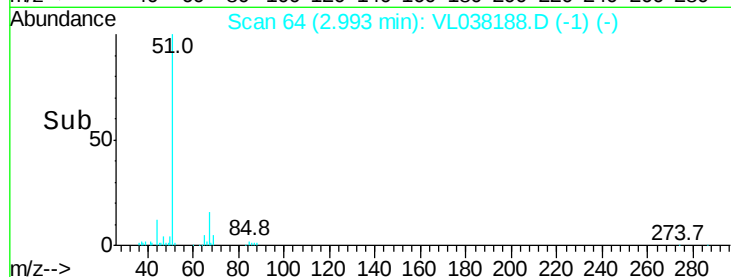
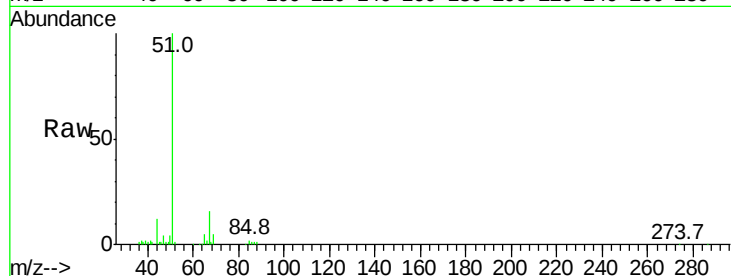


#3
Chlorodifluoromethane
Concen: 1.106 ppbv m
RT: 2.99
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
51 100
67 16.

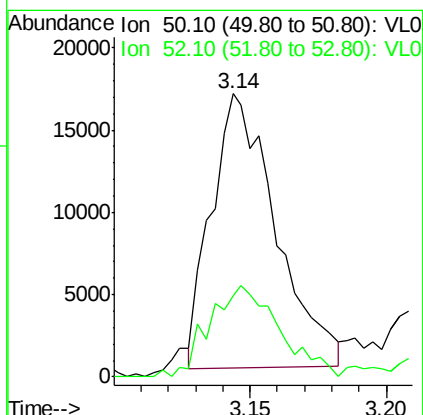
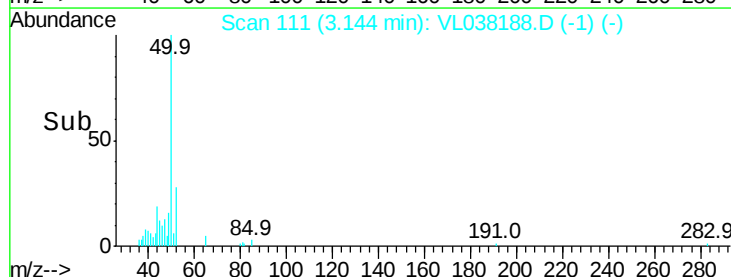
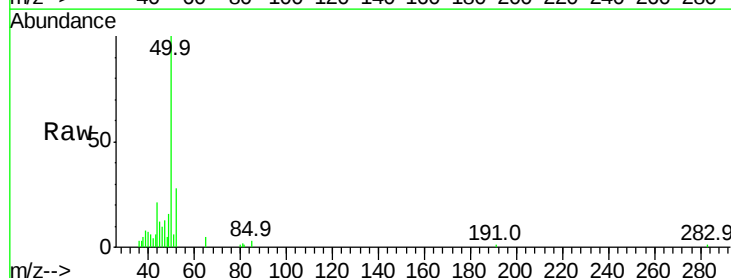
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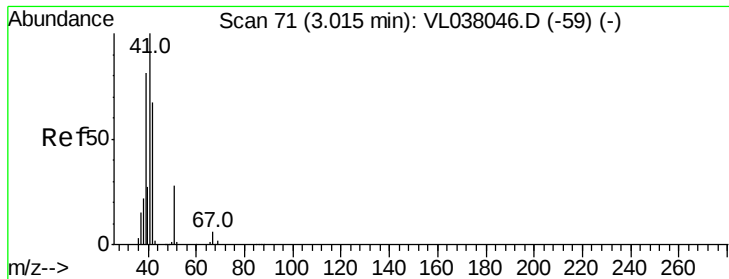
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#4
Chloromethane
Concen: 0.368 ppbv
RT: 3.14 min Scan# 111
Delta R.T. -0.00 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion: 50 Resp: 27387
Ion Ratio Lower Upper
50 100
52 31.7 25.4 38.0





#9

Propene

Concen: 5.134 ppbv m

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 14:05

Tot Ion:

Ion Ratio

41 100

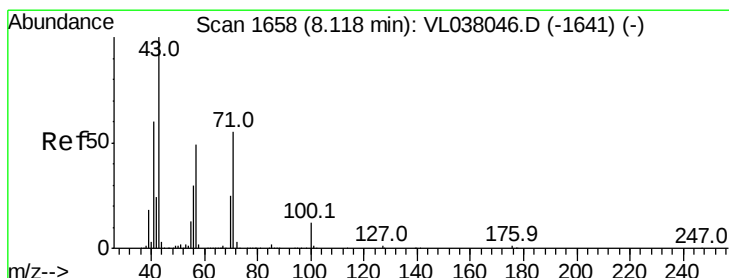
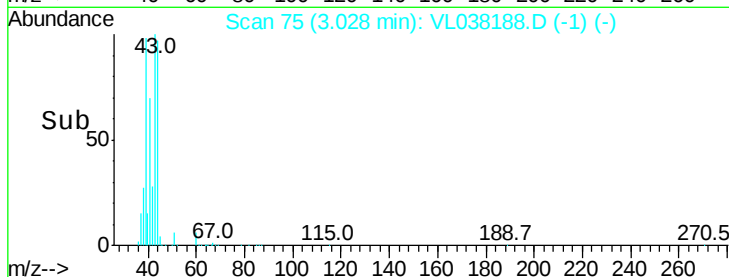
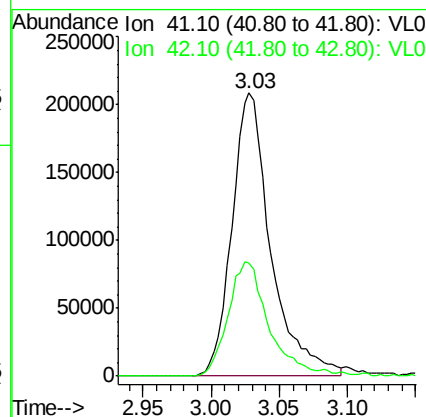
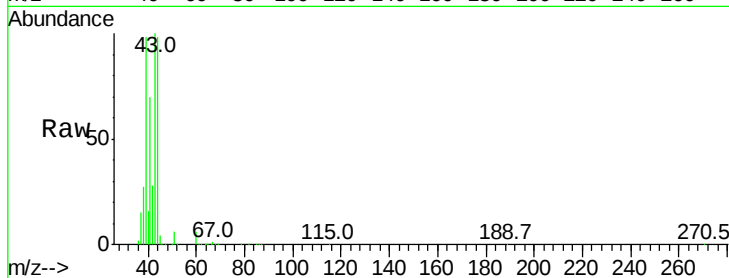
42 28.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#10

Heptane

Concen: 0.188 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VL038188.D

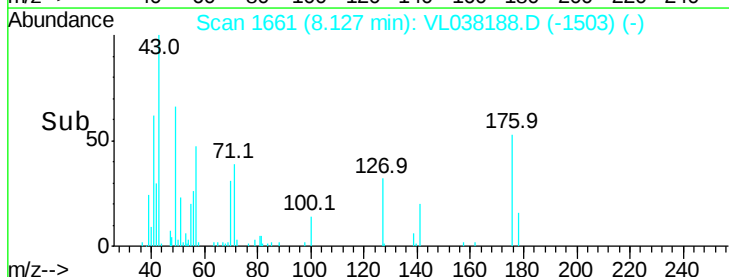
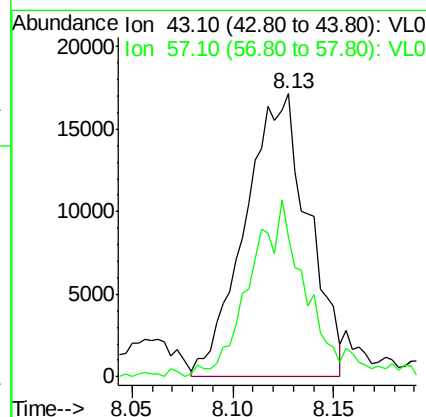
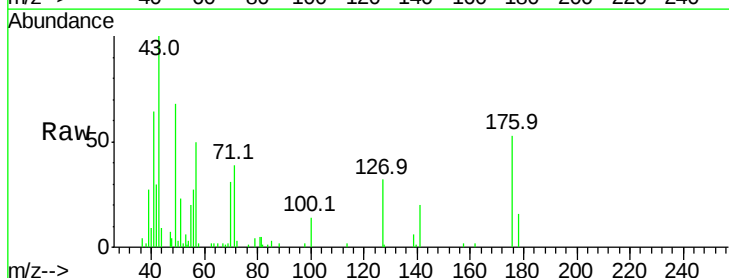
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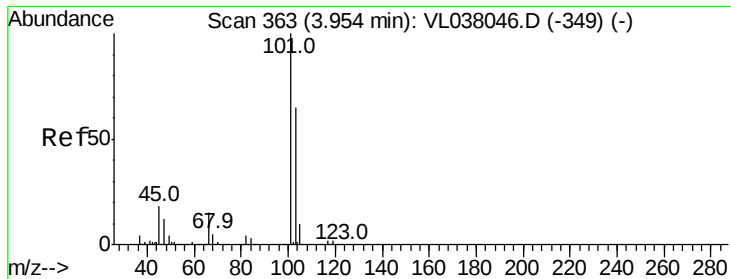
Tgt Ion: 43 Resp: 37284

Ion Ratio Lower Upper

43 100

57 0.0 40.4 60.6#





#11

Trichlorofluoromethane

Concen: 0.202 ppbv m

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 14:05

Tot Ion:1

Ion Ratio

101 100

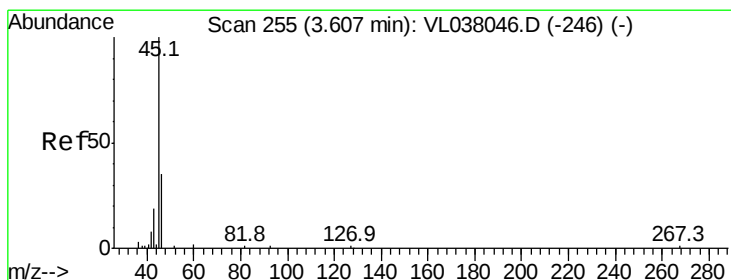
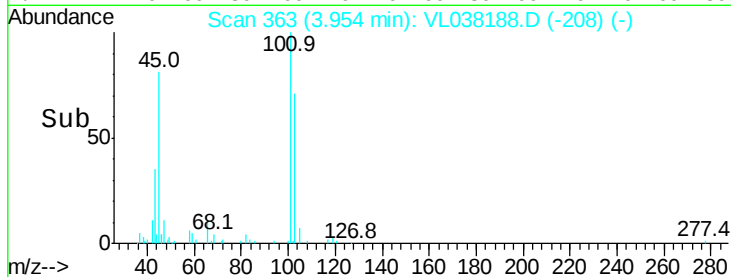
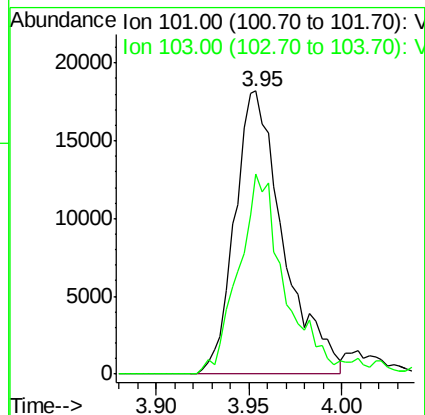
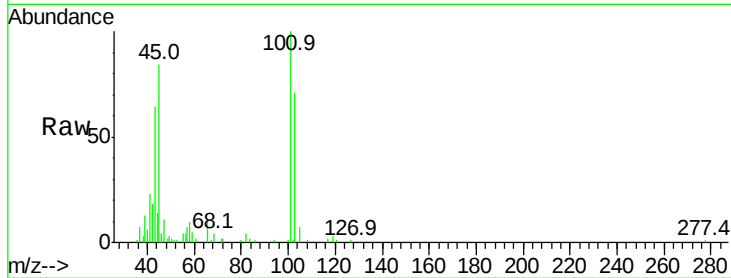
103 70.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#13

Ethanol

Concen: 234.961 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL038188.D

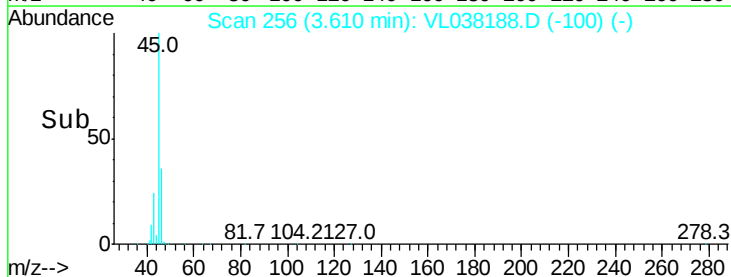
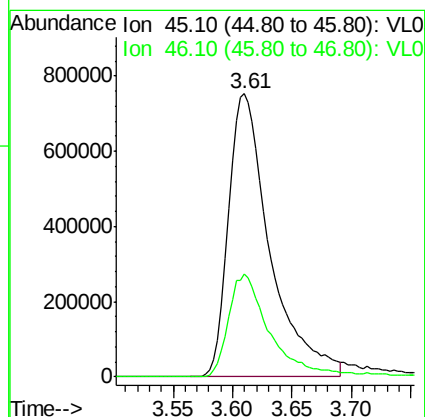
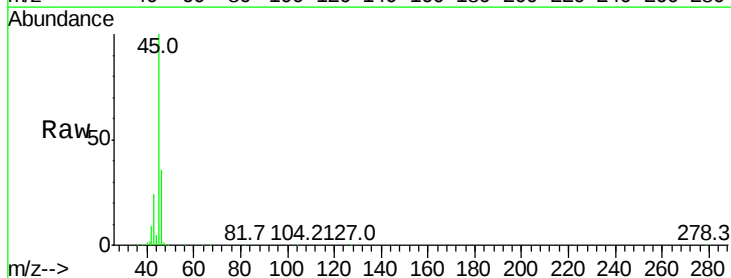
Acq: 16 Dec 2021 14:05

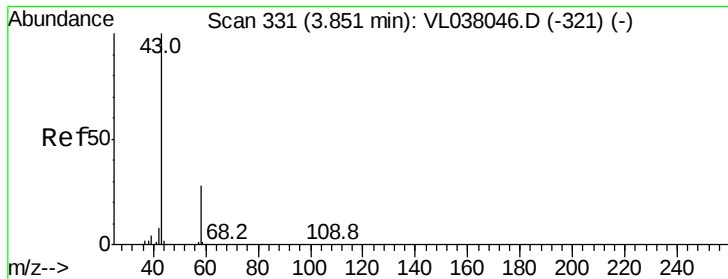
Tgt Ion: 45 Resp: 1826543

Ion Ratio Lower Upper

45 100

46 37.2 17.6 70.2





#15

Acetone

Concen: 5.038 ppbv m

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 14:05

Tot Ion:

Ion Ratio

43 100

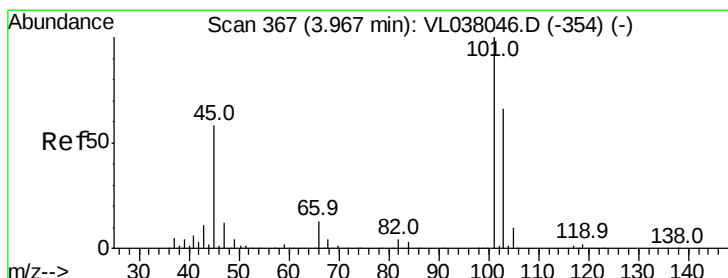
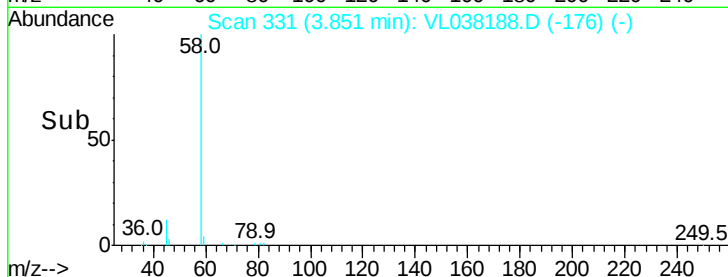
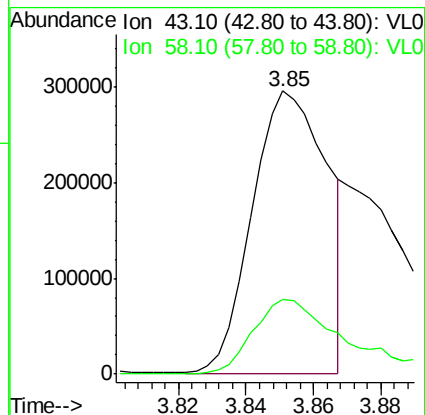
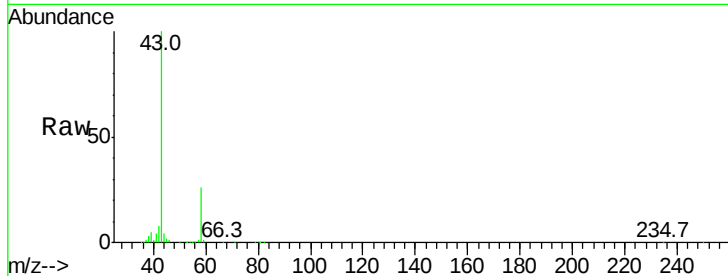
58 35.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#19

Isopropyl Alcohol

Concen: 4.021 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL038188.D

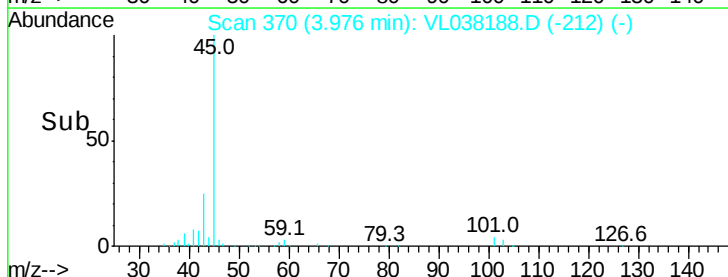
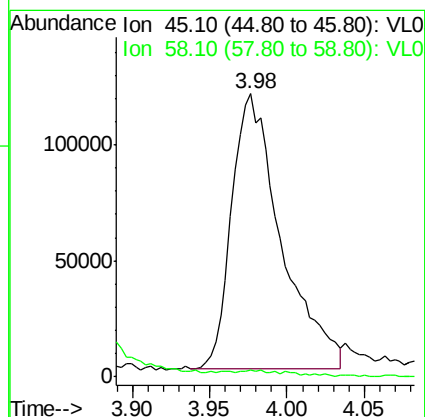
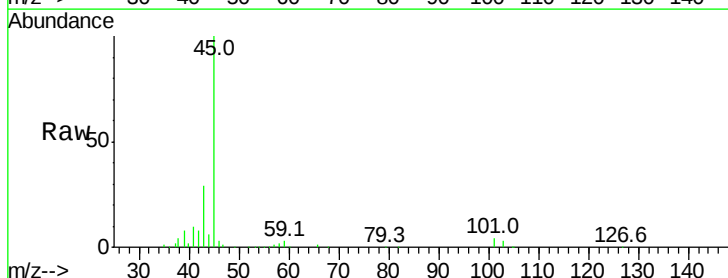
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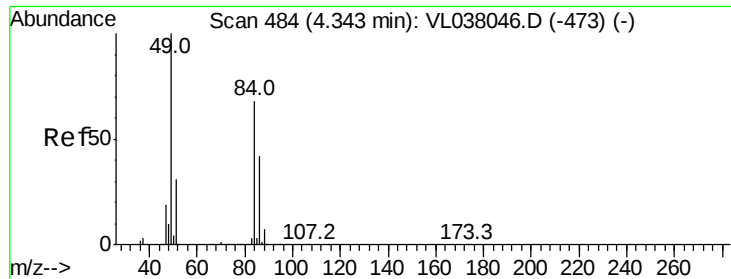
Tgt Ion: 45 Resp: 262018

Ion Ratio Lower Upper

45 100

58 3.5 1.4 2.0#



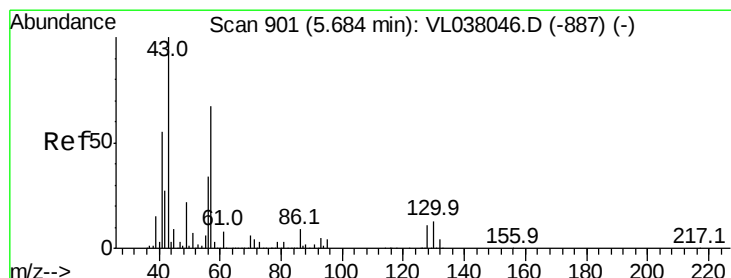
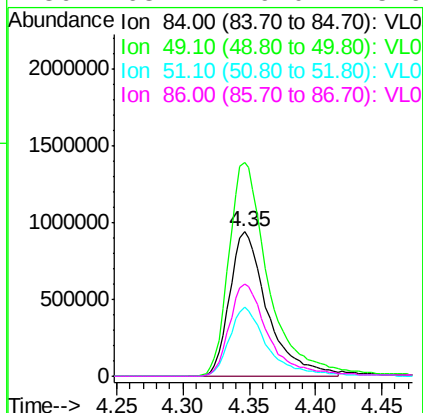
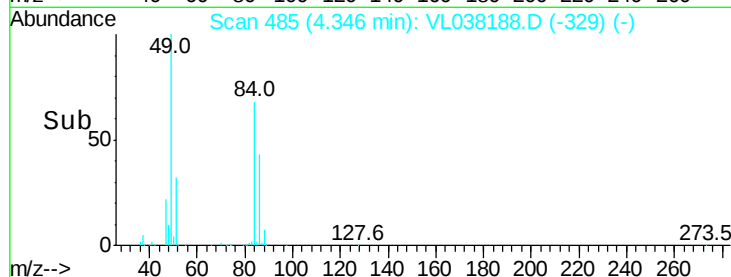
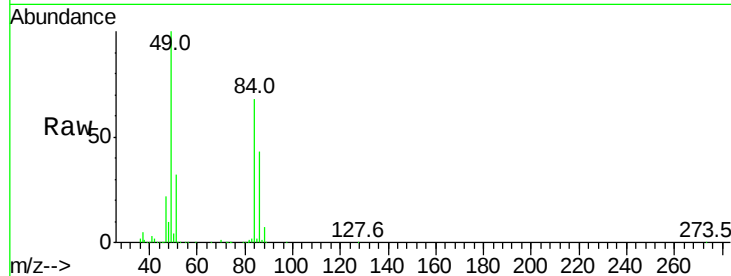


#20
Methvlene Chloride
Concen: 37.101 ppbv
RT: 4.35
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
84 100
49 148.
51 48.
86 63.7 49.0 73.6

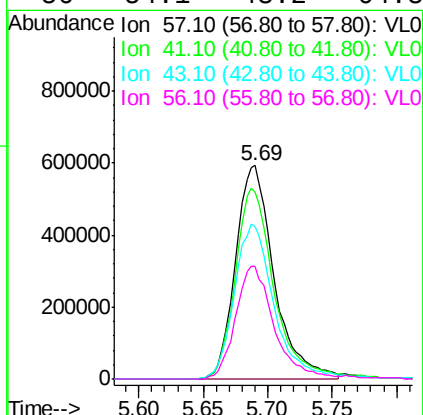
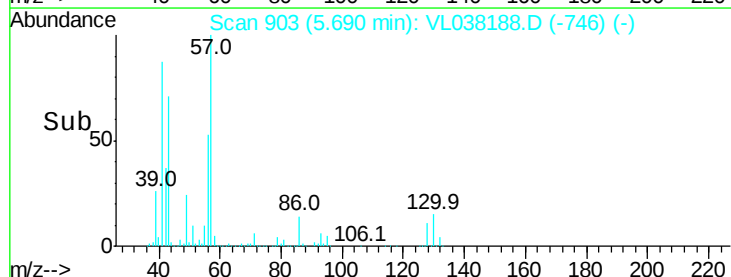
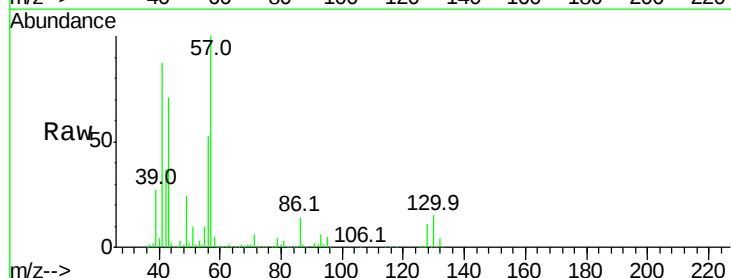
Manual Integrations APPROVED

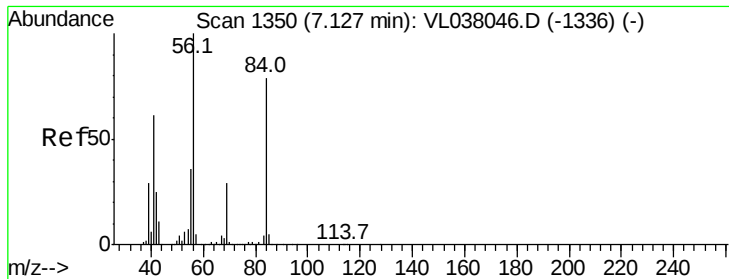
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#26
Hexane
Concen: 8.538 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion: 57 Resp: 1233361
Ion Ratio Lower Upper
57 100
41 91.1 71.4 107.2
43 76.3 174.6 261.8#
56 54.1 43.2 64.8



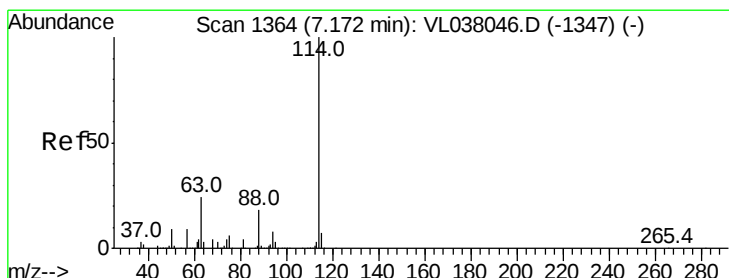
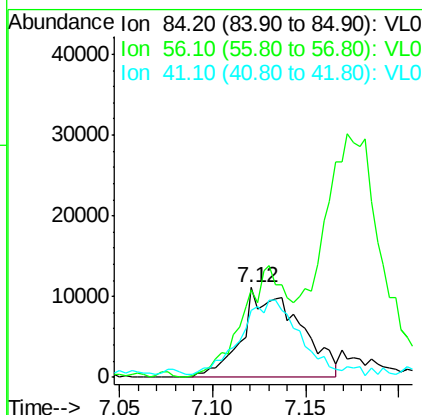
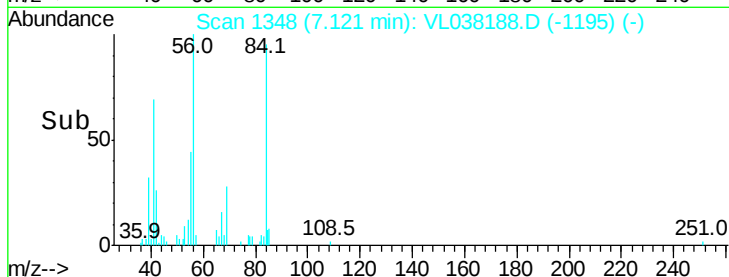
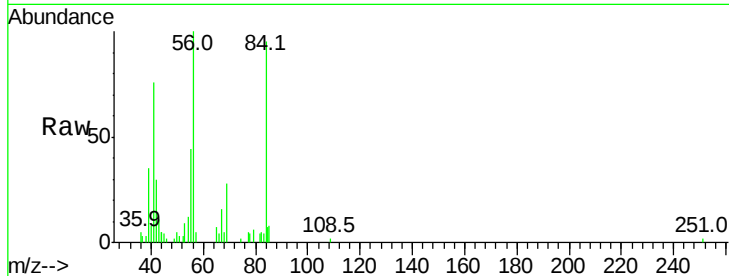


#30
Cvclohexane
Concen: 0.179 ppbv m
RT: 7.12
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
84 100
56 0.
41 0.

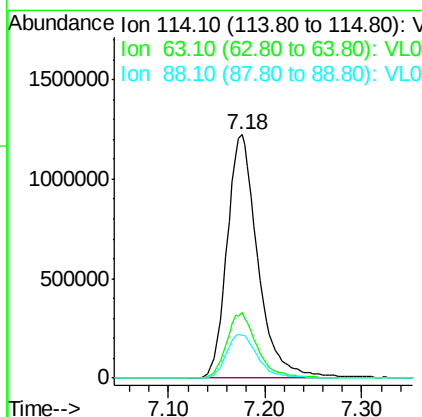
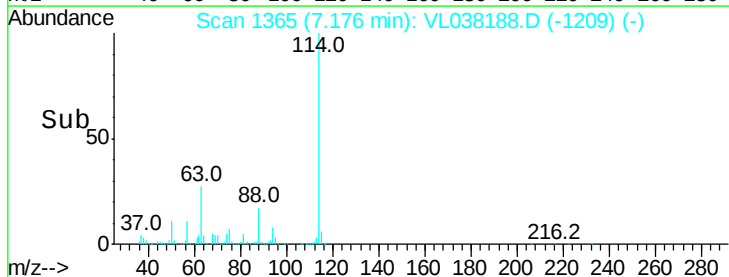
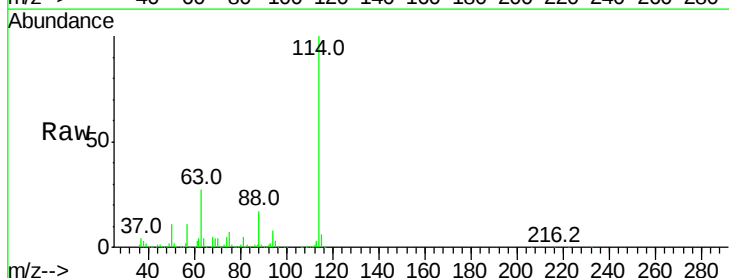
Manual Integrations
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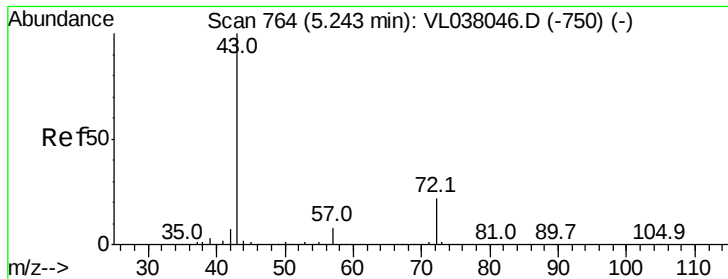
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion:114 Resp: 2697773
Ion Ratio Lower Upper
114 100
63 26.8 19.7 29.5
88 18.7 14.4 21.6





#34

2-Butanone

Concen: 0.417 ppbv

RT: 5.25 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 14:05

Tot Ion:

Ion Ratio

43 100

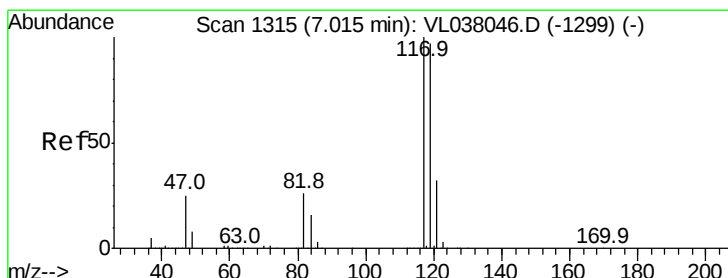
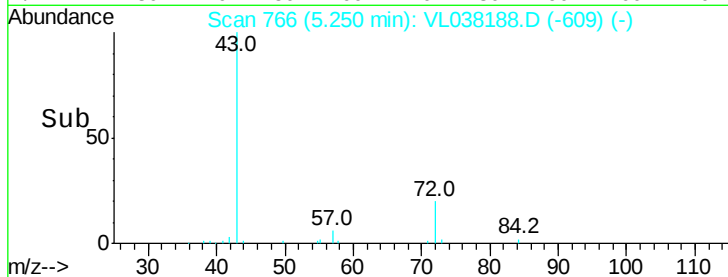
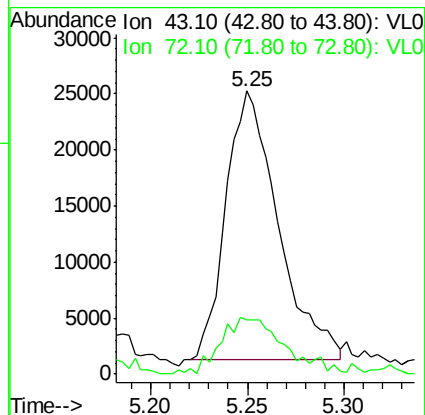
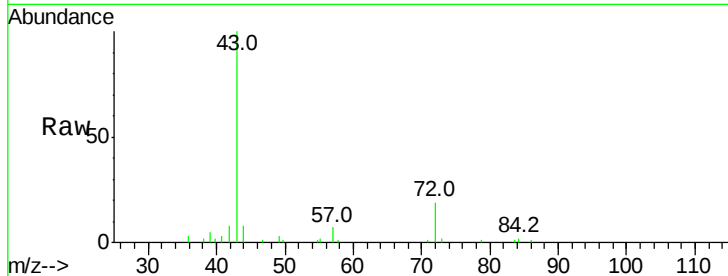
72 28.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#35

Carbon Tetrachloride

Concen: 0.057 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VL038188.D

Acq: 16 Dec 2021 14:05

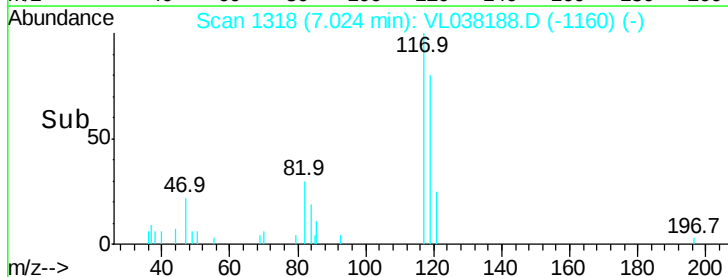
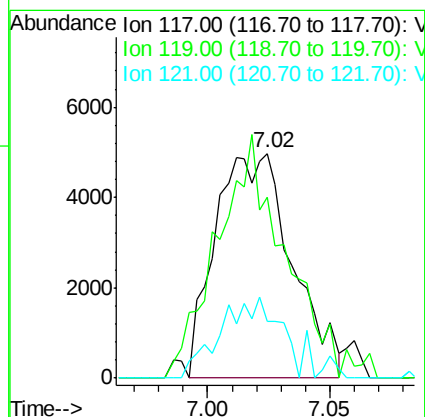
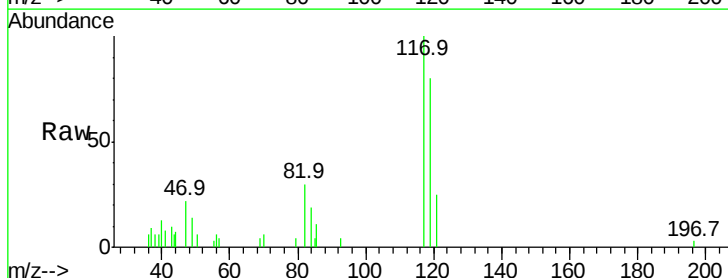
Tgt Ion:117 Resp: 10866

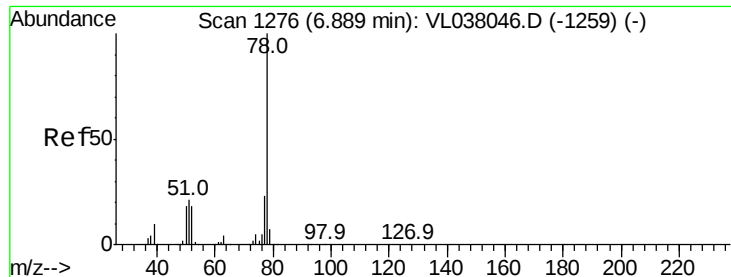
Ion Ratio Lower Upper

117 100

119 80.4 77.7 116.5

121 25.5 25.6 38.4#



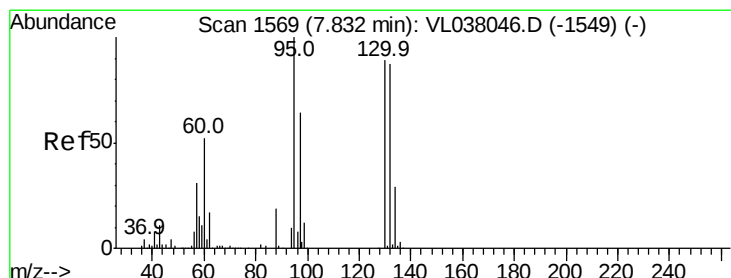
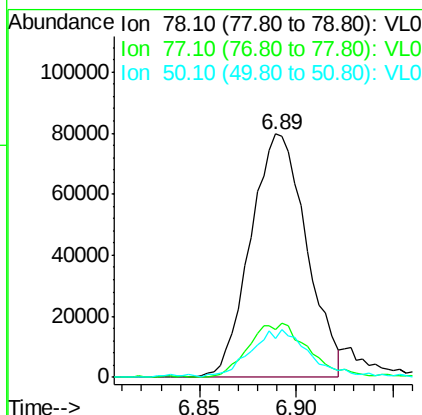
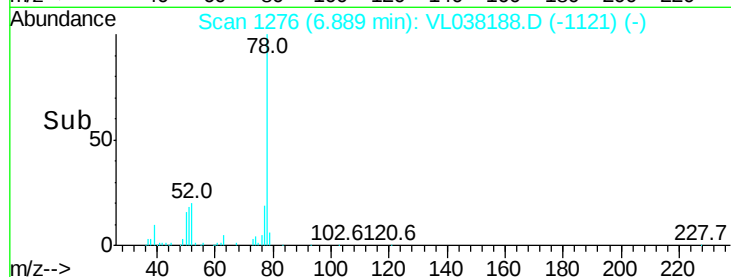
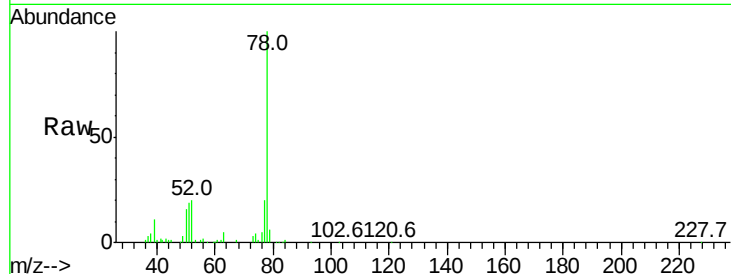


#36
Benzene
Concen: 0.595 ppbv
RT: 6.89
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
78 100
77 19.
50 15.

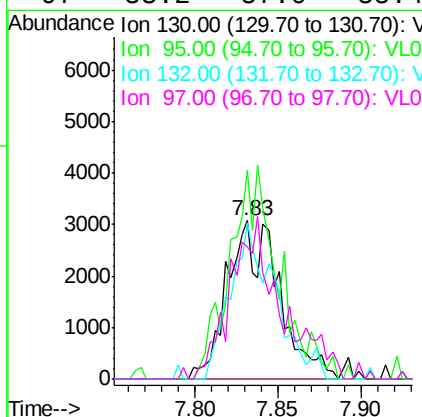
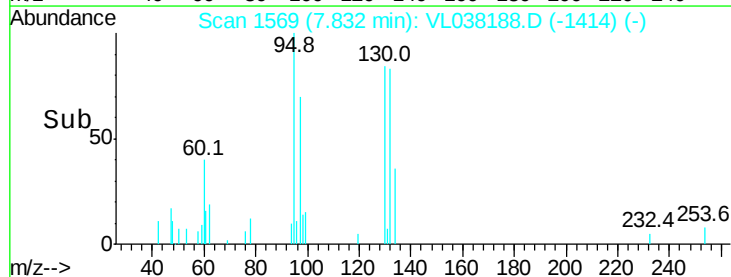
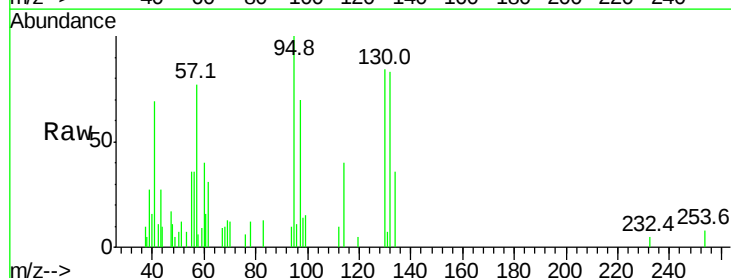
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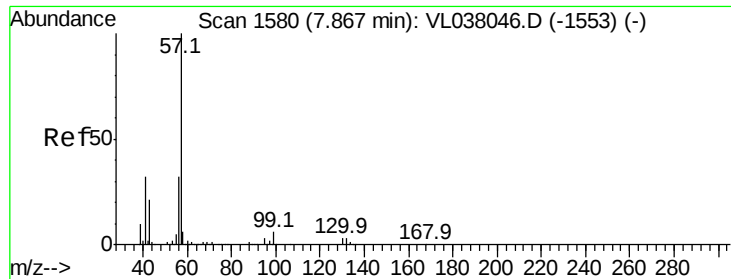
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#38
Trichloroethene
Concen: 0.065 ppbv m
RT: 7.83 min Scan# 1569
Delta R.T.: -0.00 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion:130 Resp: 6621
Ion Ratio Lower Upper
130 100
95 118.8 89.4 134.2
132 99.1 78.2 117.2
97 83.2 57.0 85.4





#44

2,2,4-Trimethylpentane

Concen: 0.300 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 14:05

Tot Ion:

Ion Ratio

57 100

41 46.

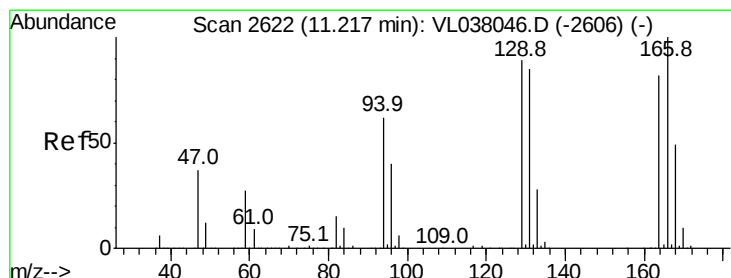
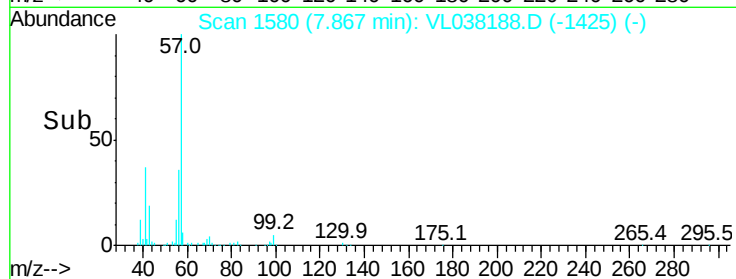
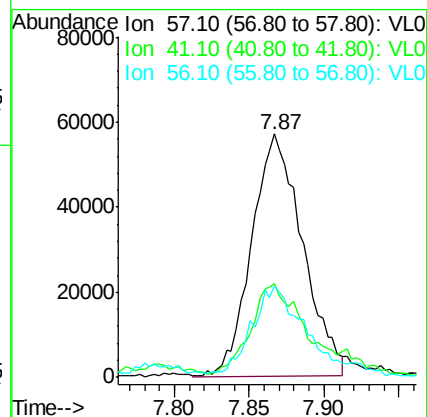
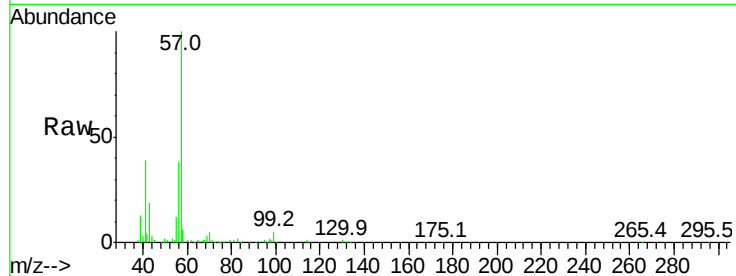
56 43.

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APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#52

Tetrachloroethene

Concen: 0.037 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL038188.D

Acq: 16 Dec 2021 14:05

Tgt Ion:164 Resp: 3694

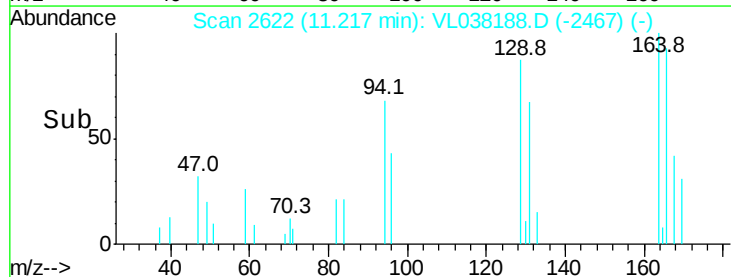
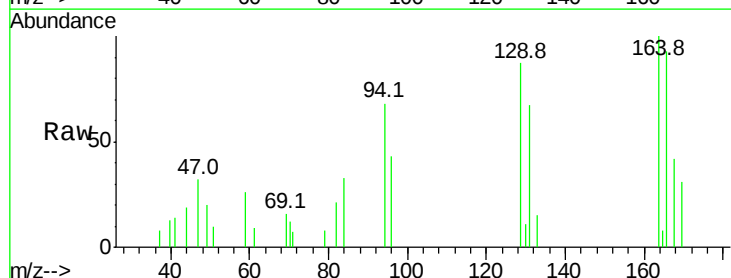
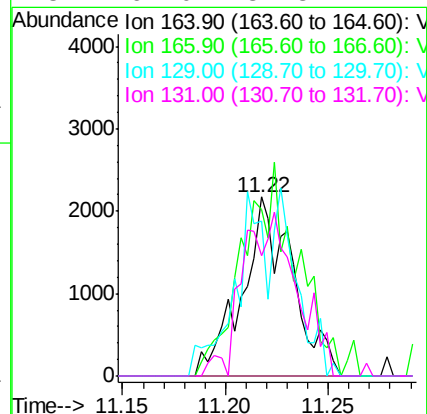
Ion Ratio Lower Upper

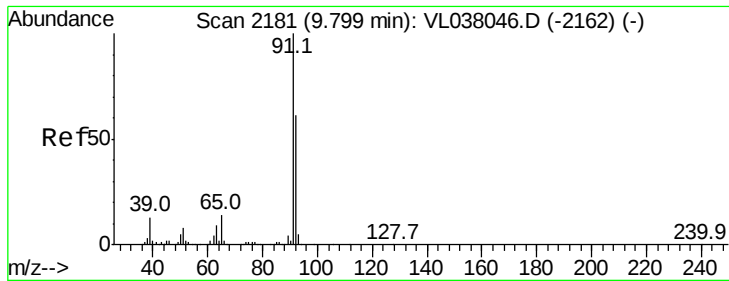
164 100

166 93.2 97.2 145.8#

129 87.0 86.9 130.3

131 67.0 82.8 124.2#



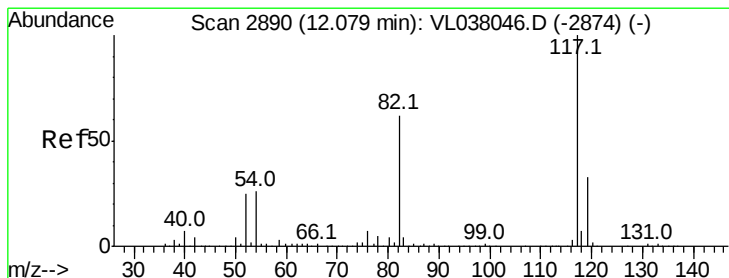
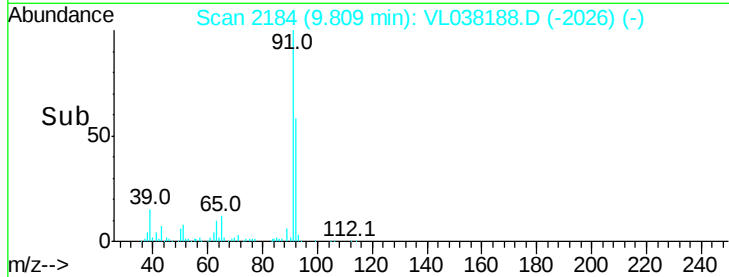
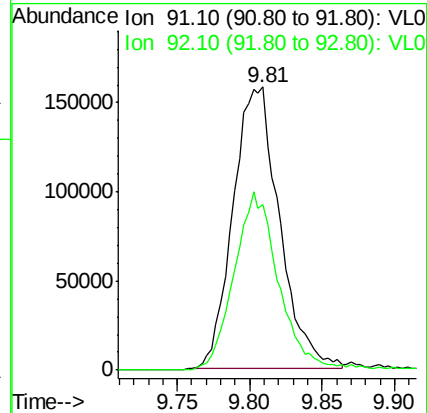
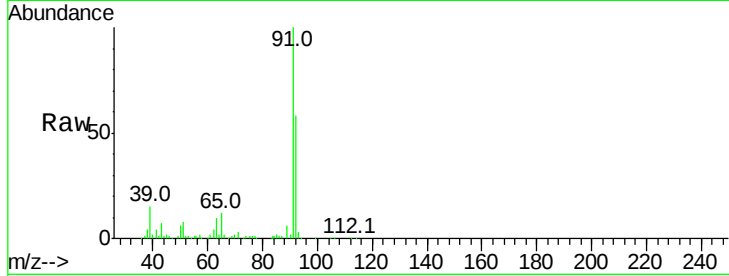


#53
Toluene
Concen: 1.133 ppbv
RT: 9.81
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
91 100
92 60.

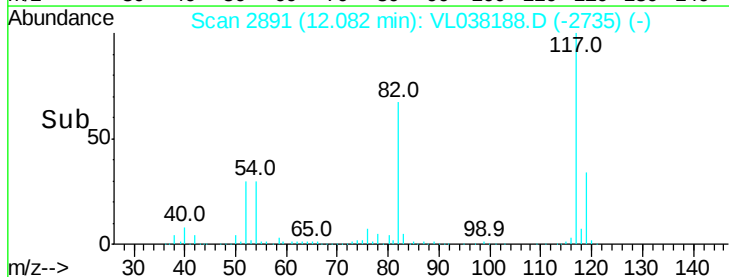
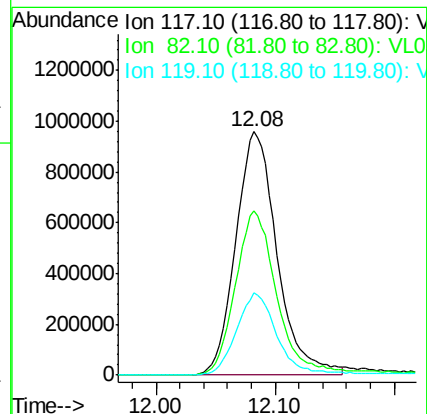
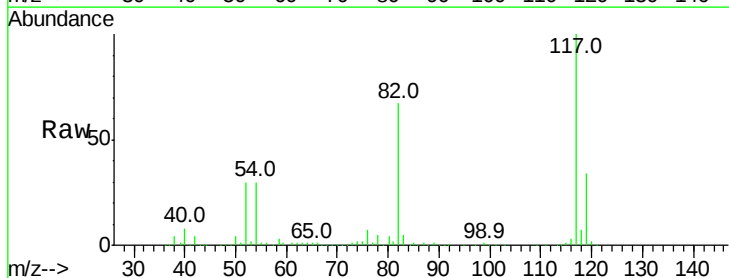
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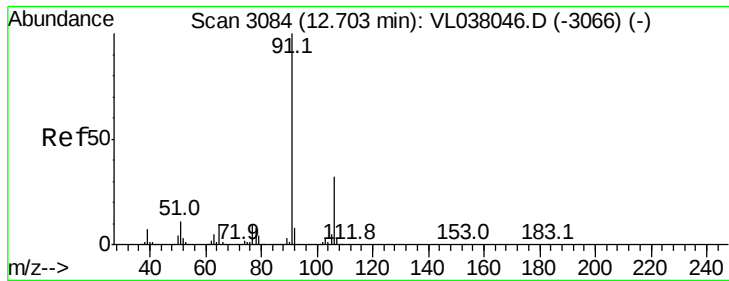
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion:117 Resp: 2305133
Ion Ratio Lower Upper
117 100
82 71.2 52.8 79.2
119 34.1 26.8 40.2



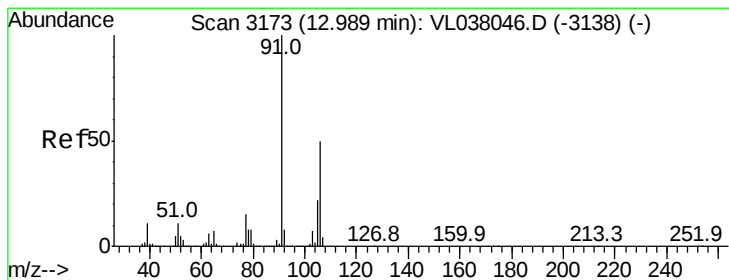
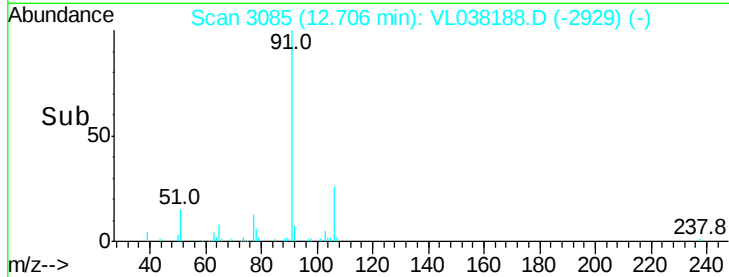
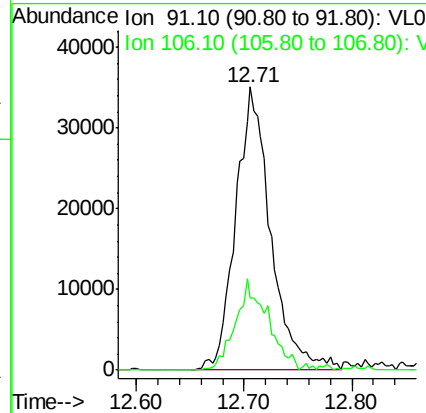
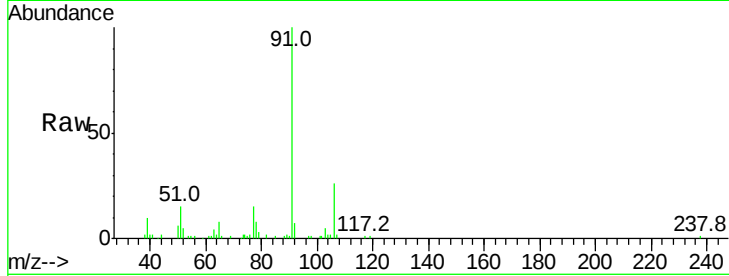


#58
Ethyl Benzene
Concen: 0.208 ppbv m
RT: 12.71
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
91 100
106 25.

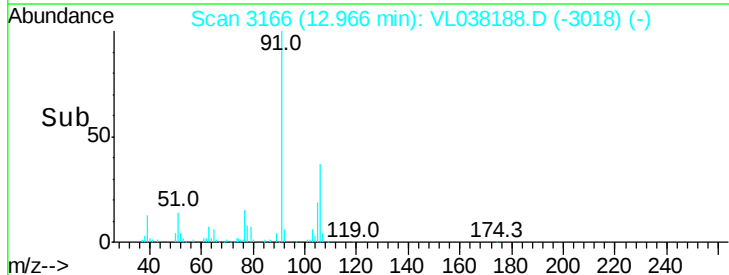
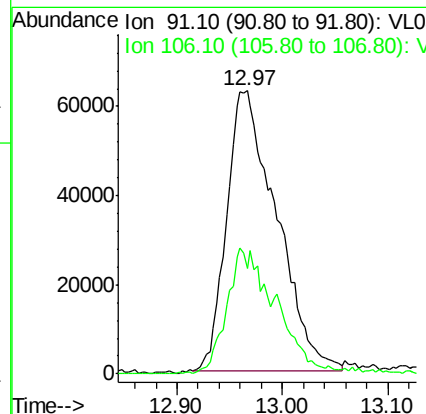
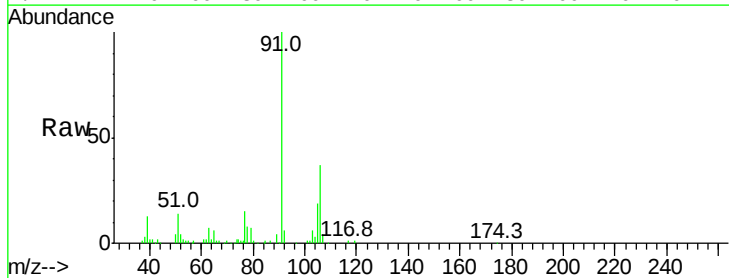
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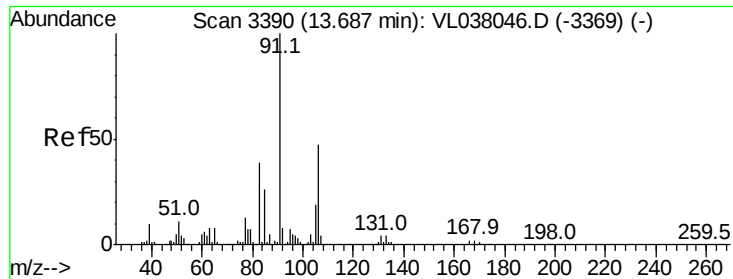
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#59
m/p-Xylene
Concen: 0.642 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.02 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion: 91 Resp: 205998
Ion Ratio Lower Upper
91 100
106 44.3 38.1 57.1



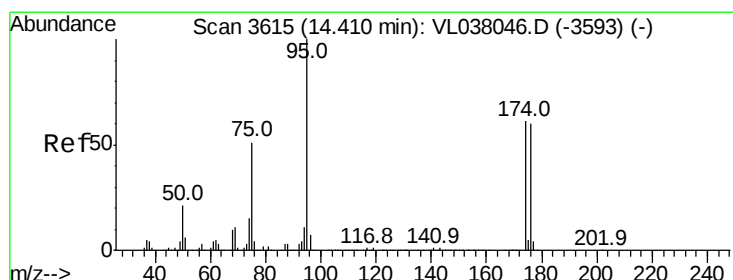
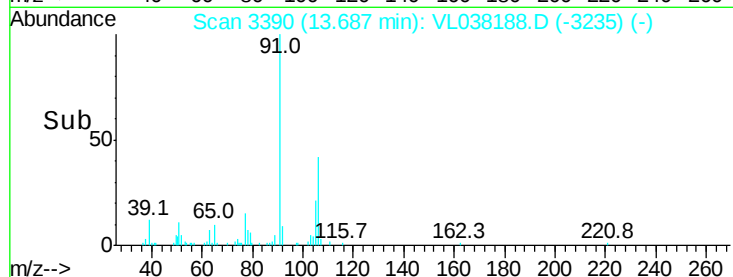
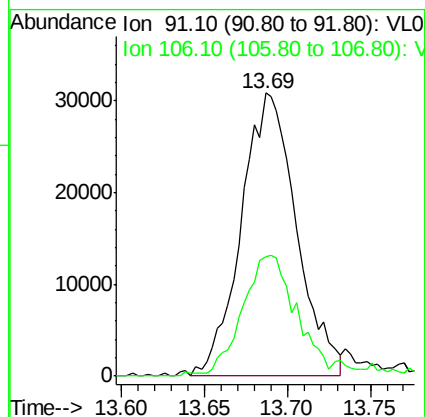
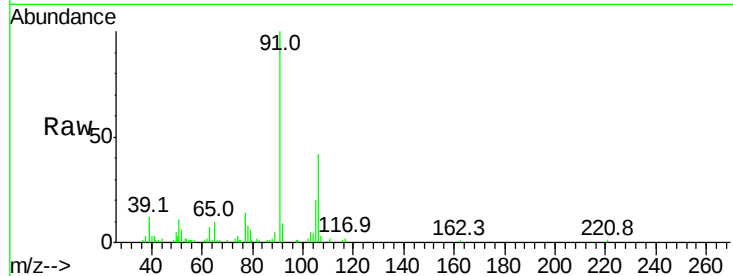


#60
o-Xylene
Concen: 0.241 ppbv
RT: 13.69
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 14:05

Tot Ion:
Ion Ratio
91 100
106 46.

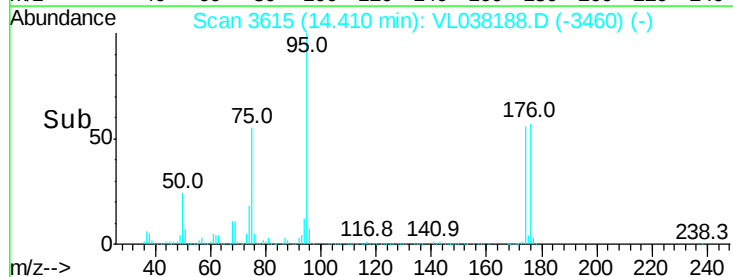
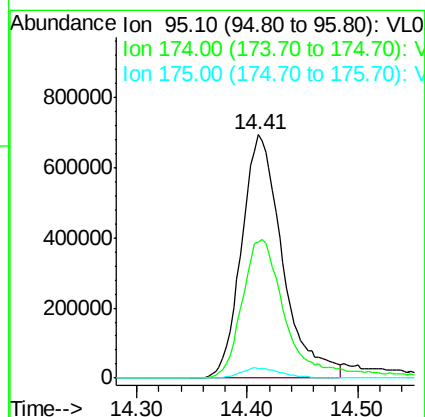
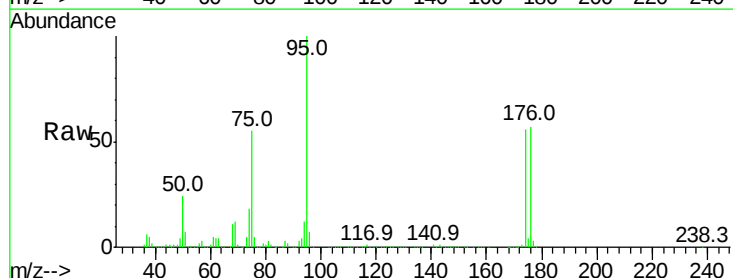
Manual Integrations
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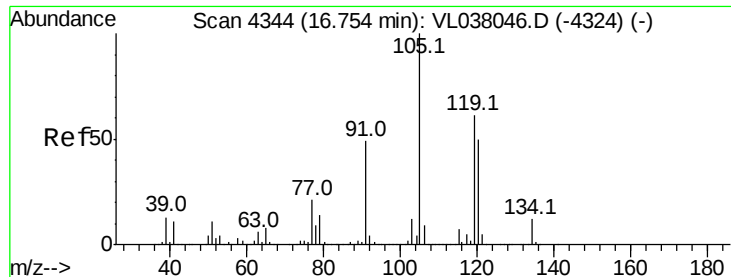
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



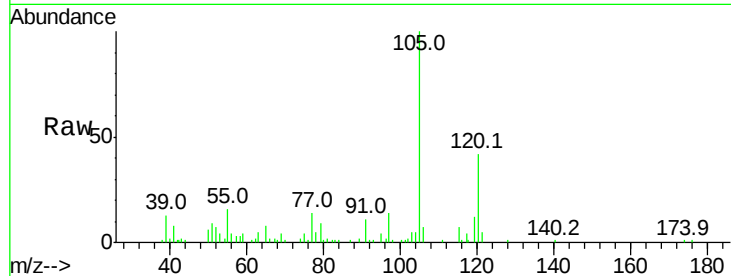
#68
1-Bromo-4-Fluorobenzene
Concen: 10.765 ppbv
RT: 14.41 min Scan# 3615
Delta R.T.: -0.00 min
Lab File: VL038188.D
Acq: 16 Dec 2021 14:05

Tgt Ion: 95 Resp: 1790001
Ion Ratio Lower Upper
95 100
174 62.9 53.1 79.7
175 4.4 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.209 ppbv m
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 14:05



Tot Ion:1
 Ion Rati
 105 100
 120 41.
 91 11.
 77 14.1 16.6 25.0#

Manual Integrations
 APPROVED

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

