

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021622\
 Data File : VL038369.D
 Acq On : 16 Feb 2022 16:43
 Operator : SY/AP
 Sample : N1546-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/21/2022
 Supervised By : Mahesh Dadoda 02/21/2022

Quant Time: Feb 17 10:04:48 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	885982	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2198621	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2078227	10.00	ppbv	-0.04

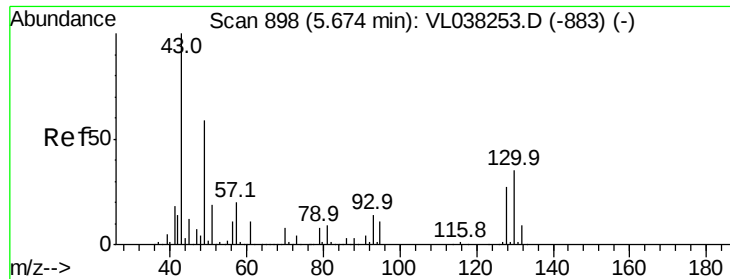
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1666181	10.56	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	61887m	0.33	ppbv	
3) Chlorodifluoromethane	2.98	51	28317	0.16	ppbv #	74
4) Chloromethane	3.12	50	11123	0.18	ppbv #	84
9) Propene	3.00	41	83242	1.45	ppbv	91
10) Heptane	8.08	43	23018m	0.16	ppbv	
11) Trichlorofluoromethane	3.92	101	29237	0.20	ppbv	87
13) Ethanol	3.58	45	169706	27.53	ppbv	94
15) Acetone	3.83	43	417291	5.34	ppbv	97
17) tert-Butyl alcohol	4.28	59	14478m	0.17	ppbv	
19) Isopropyl Alcohol	3.94	45	204342	4.18	ppbv	99
20) Methylene Chloride	4.32	84	62189	1.37	ppbv	96
26) Hexane	5.65	57	44036	0.43	ppbv #	82
31) cis-1,2-Dichloroethene	5.52	61	8616m	0.10	ppbv	
34) 2-Butanone	5.21	43	85620	1.19	ppbv	97
36) Benzene	6.85	78	28965	0.15	ppbv #	86
38) Trichloroethene	7.80	130	74187m	1.02	ppbv	
41) Tetrahydrofuran	6.03	42	76436	1.58	ppbv	94
52) Tetrachloroethene	11.18	164	452806	6.76	ppbv	99
53) Toluene	9.76	91	1799447	8.36	ppbv	99
58) Ethyl Benzene	12.67	91	75121	0.25	ppbv #	87
59) m/p-Xylene	12.92	91	229926	0.88	ppbv	98
60) o-Xylene	13.65	91	95339	0.39	ppbv	98
69) p-Isopropyltoluene	17.62	119	108490	0.38	ppbv	94
73) 1,3,5-Trimethylbenzene	15.95	105	34657m	0.15	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SVP-1

Acq: 16 Feb 2022 16:43

Tgt Ion:

Ion Ratio

49 100

128 48.

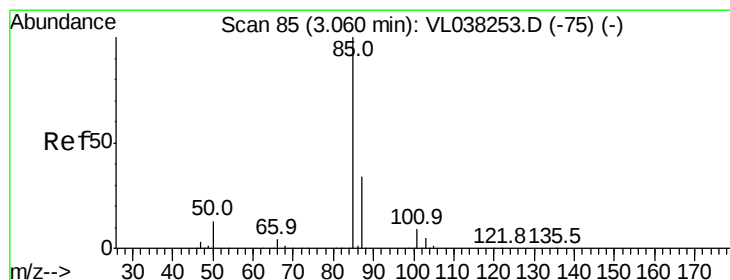
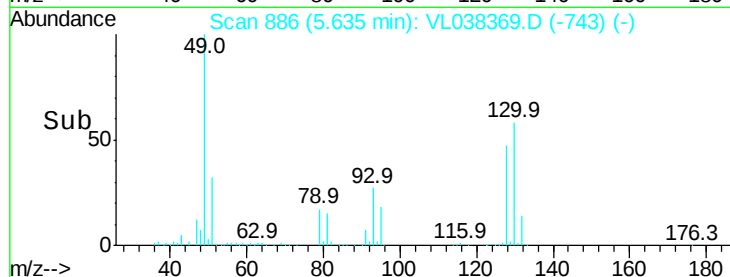
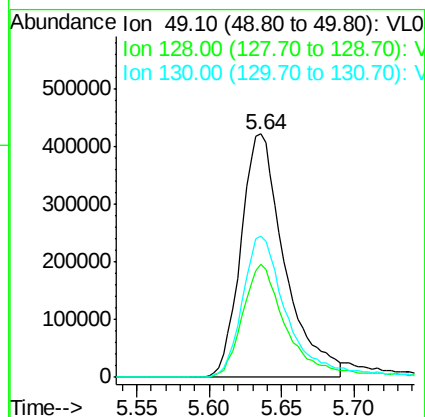
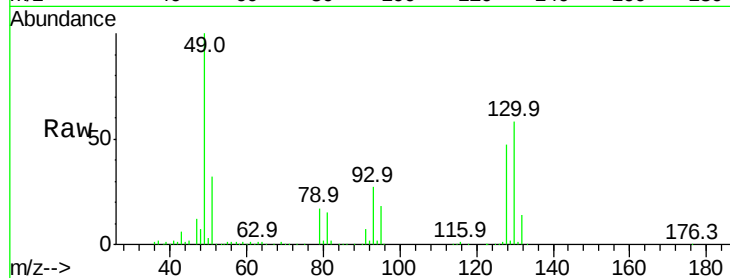
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#2

Dichlorodifluoromethane

Concen: 0.33 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. -0.03 min

Lab File: VL038369.D

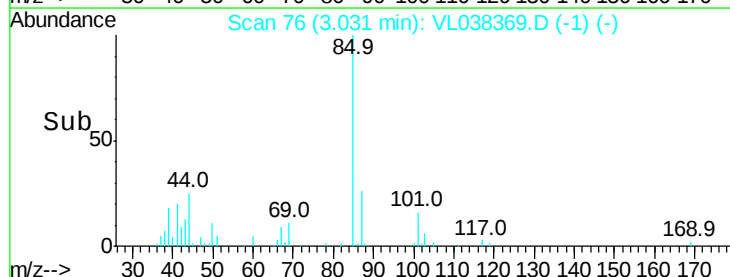
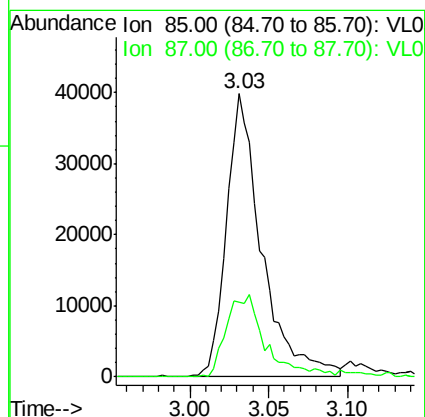
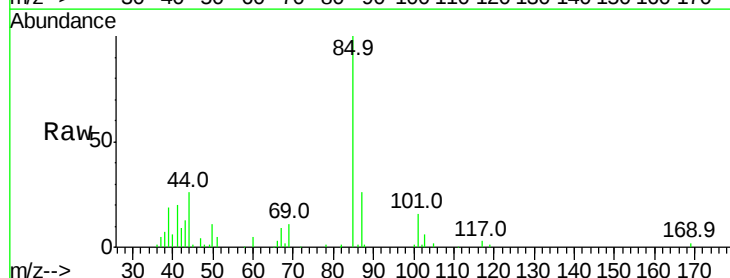
Acq: 16 Feb 2022 16:43

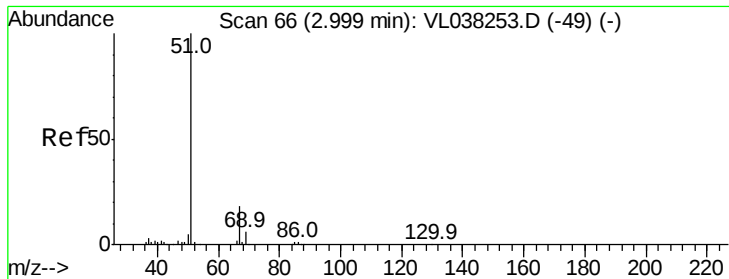
Tgt Ion: 85 Resp: 61887

Ion Ratio Lower Upper

85 100

87 26.4 27.0 40.6#





#3

Chlorodifluoromethane

Concen: 0.16 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SVP-1

Acq: 16 Feb 2022 16:43

Tgt Ion:

Ion Ratio

51 100

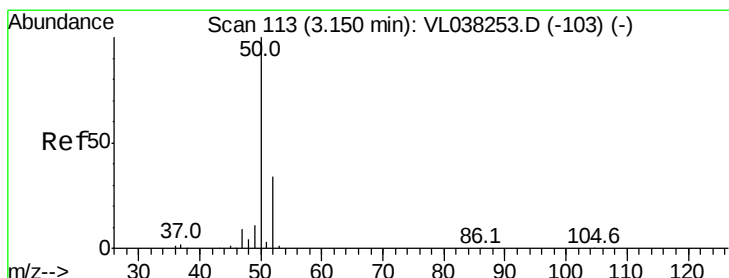
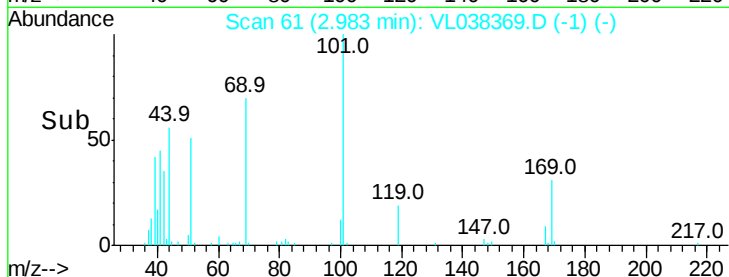
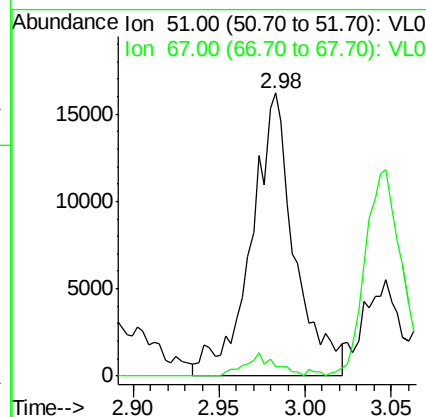
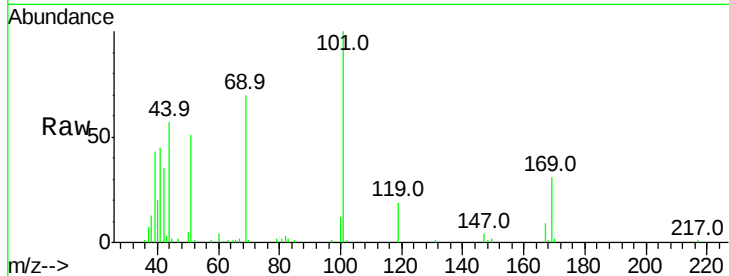
67 6.

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Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#4

Chloromethane

Concen: 0.18 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.03 min

Lab File: VL038369.D

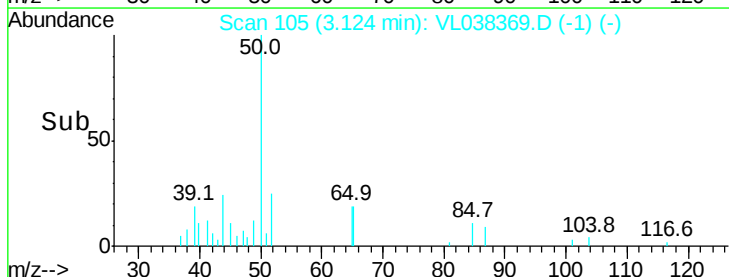
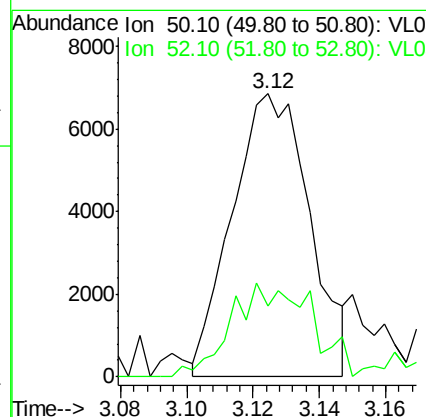
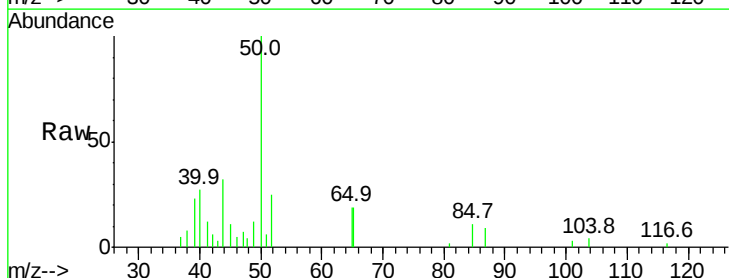
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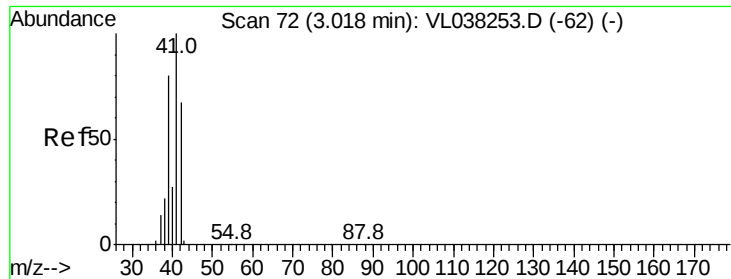
Tgt Ion: 50 Resp: 11123

Ion Ratio Lower Upper

50 100

52 24.8 27.1 40.7#





#9

Propene

Concen: 1.45 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Feb 2022 16:43 SVP-1

Tgt Ion:

Ion Ratio

41 100

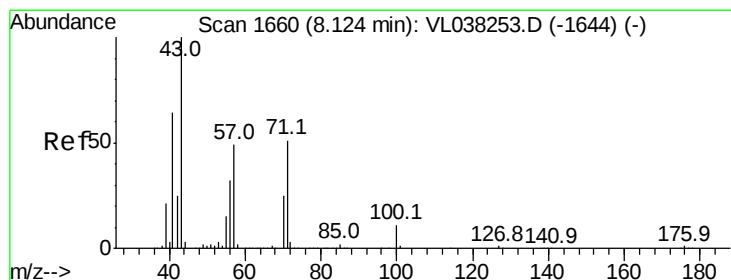
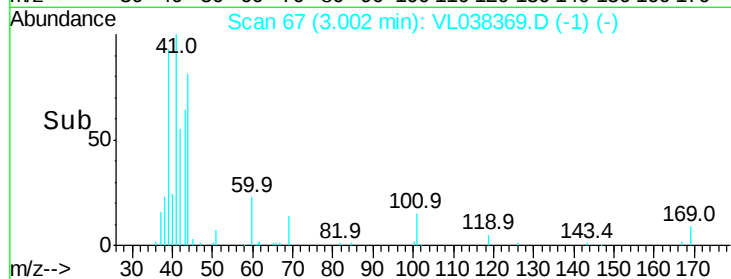
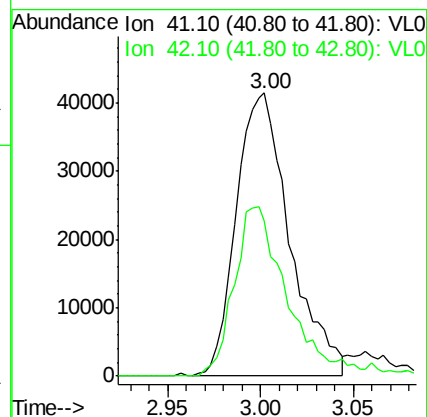
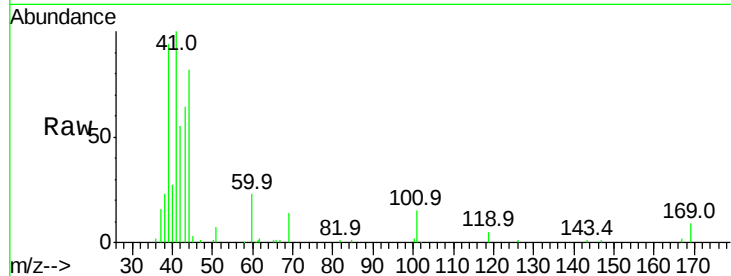
42 60.

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Supervised By :Mahesh Dadoda 02/21/2022



#10

Heptane

Concen: 0.16 ppbv m

RT: 8.08 min Scan# 1647

Delta R.T. -0.04 min

Lab File: VL038369.D

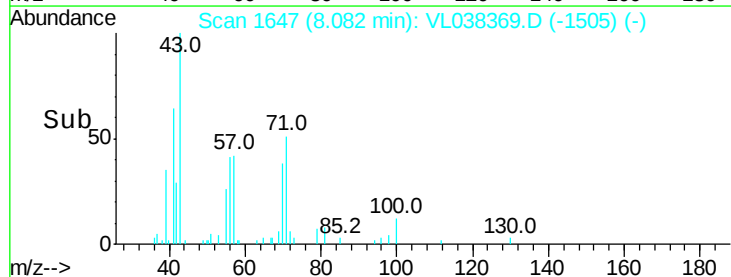
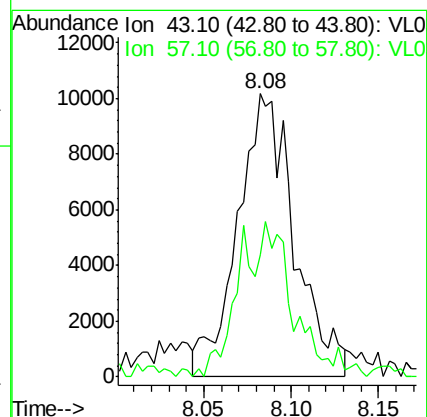
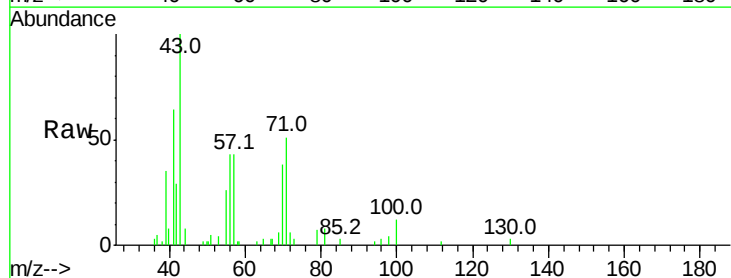
Acq: 16 Feb 2022 16:43

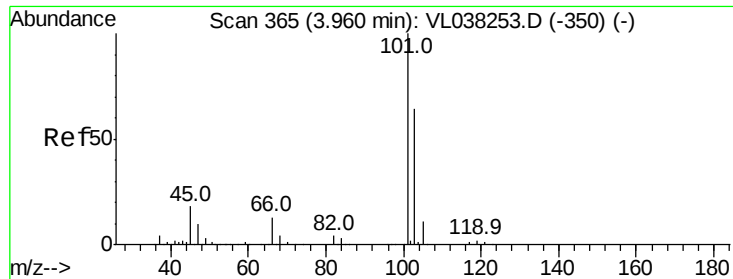
Tgt Ion: 43 Resp: 23018

Ion Ratio Lower Upper

43 100

57 54.2 39.5 59.3



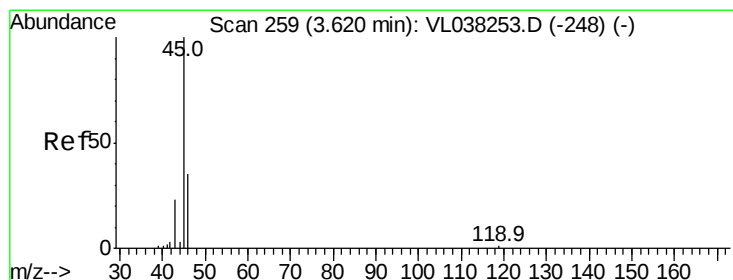
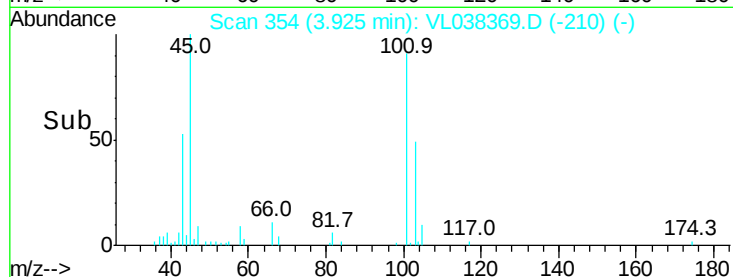
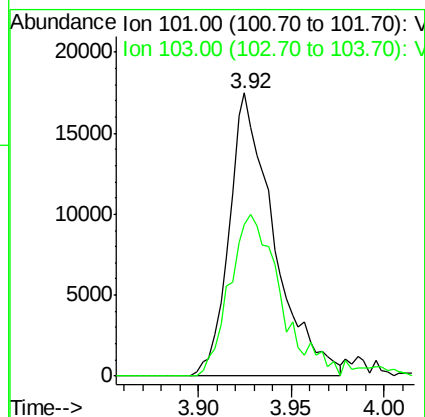
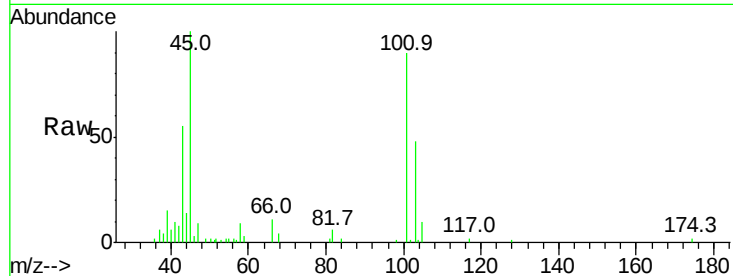


#11
 Trichlorofluoromethane
 Concen: 0.20 ppbv
 RT: 3.92
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SVP-1
 Acq: 16 Feb 2022 16:43

Tgt Ion: 1
 Ion Ratio
 101 100
 103 53.

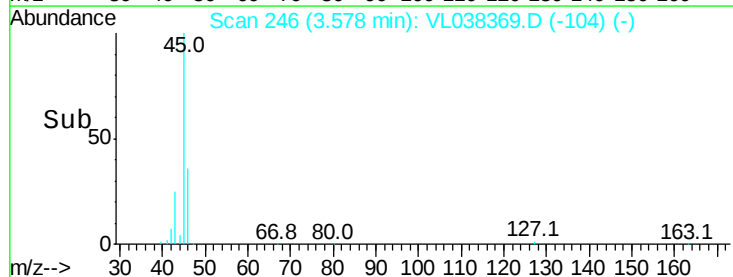
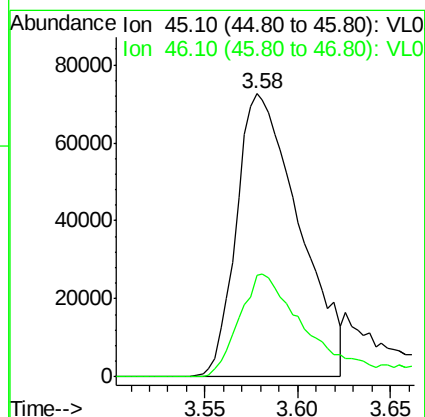
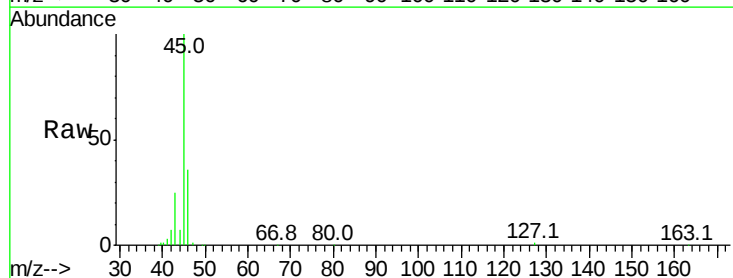
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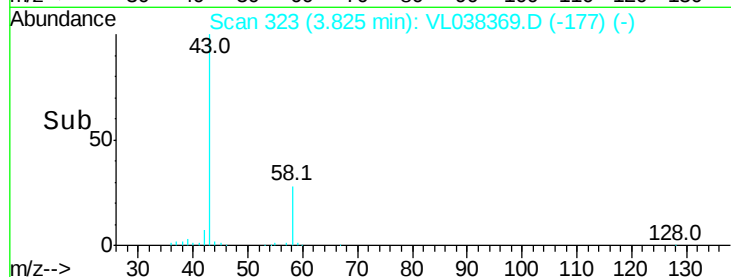
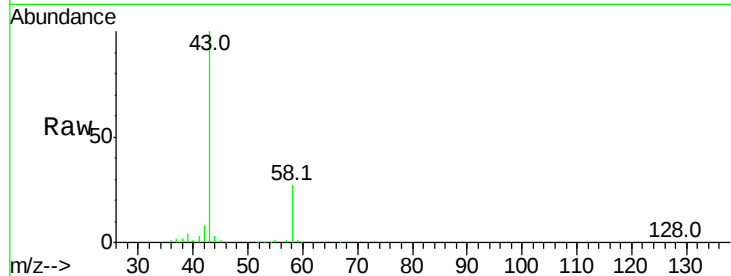
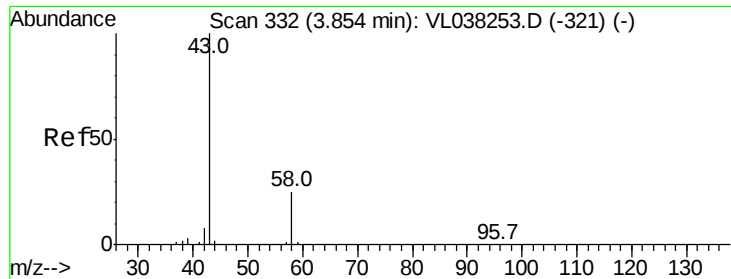
Reviewed By : Semsettin Yesilyurt 02/21/2022
 Supervised By : Mahesh Dadoda 02/21/2022



#13
 Ethanol
 Concen: 27.53 ppbv
 RT: 3.58 min Scan# 246
 Delta R.T. -0.04 min
 Lab File: VL038369.D
 Acq: 16 Feb 2022 16:43

Tgt Ion: 45 Resp: 169706
 Ion Ratio Lower Upper
 45 100
 46 42.4 15.4 61.6





#15

Acetone

Concen: 5.34 ppbv

RT: 3.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Feb 2022 16:43

Tgt Ion:

Ion Ratio

43 100

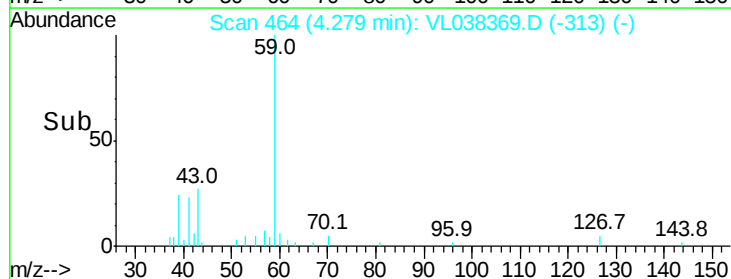
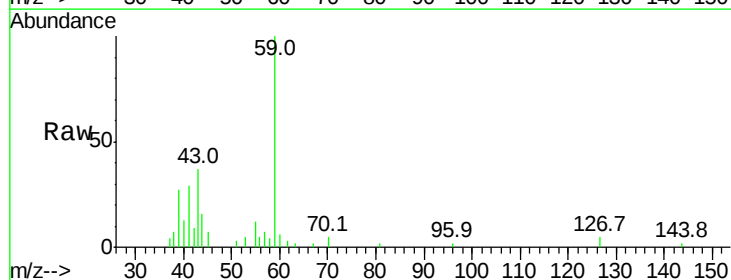
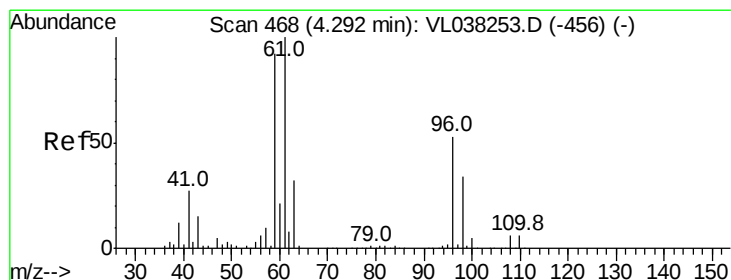
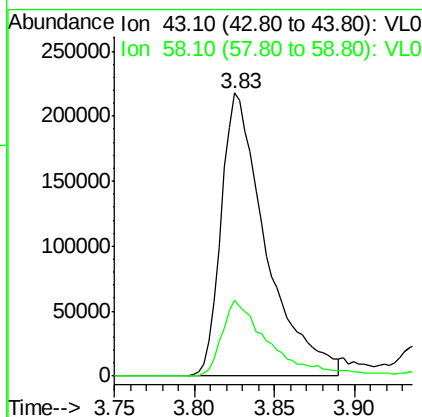
58 28.

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.17 ppbv m

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL038369.D

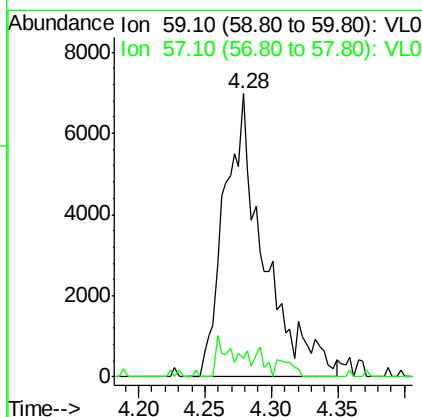
Acq: 16 Feb 2022 16:43

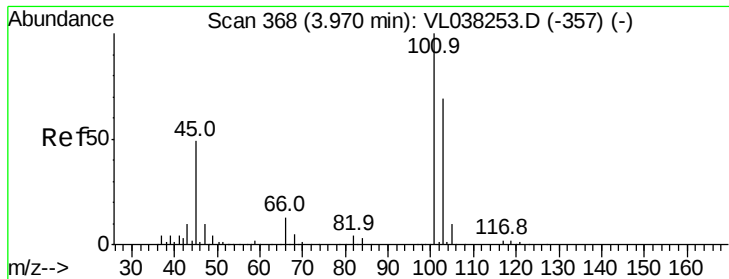
Tgt Ion: 59 Resp: 14478

Ion Ratio Lower Upper

59 100

57 9.0 9.2 13.8#





#19

Isopropyl Alcohol

Concen: 4.18 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Feb 2022 16:43 SVP-1

Tgt Ion:

Ion Ratio

45 100

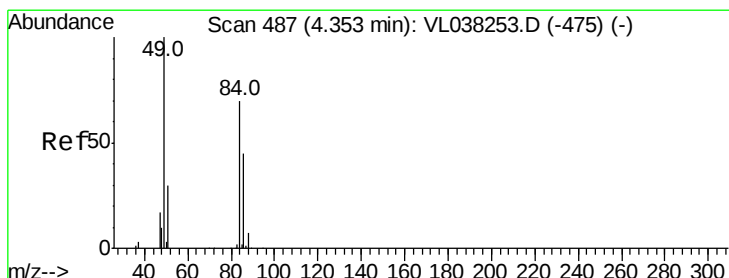
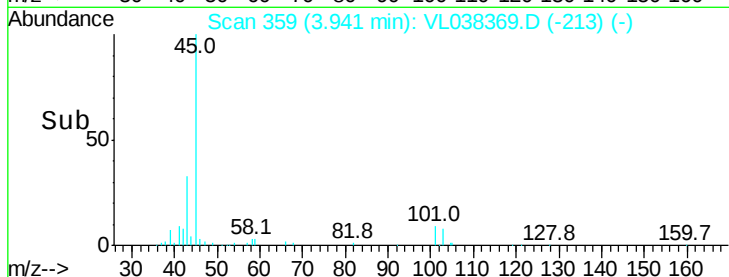
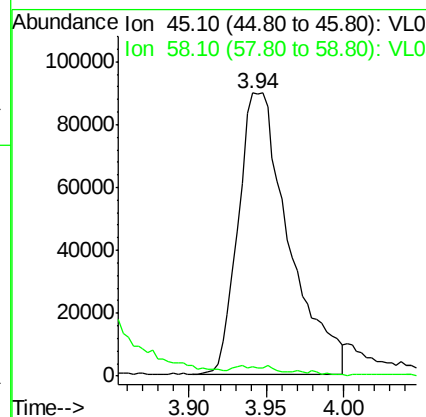
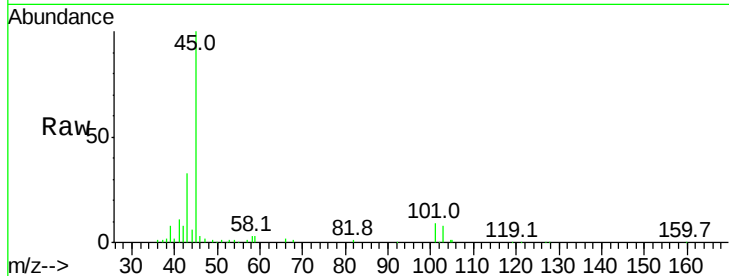
58 3.

Manual Integrations

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Supervised By :Mahesh Dadoda 02/21/2022



#20

Methylene Chloride

Concen: 1.37 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.04 min

Lab File: VL038369.D

Acq: 16 Feb 2022 16:43

Tgt Ion: 84 Resp: 62189

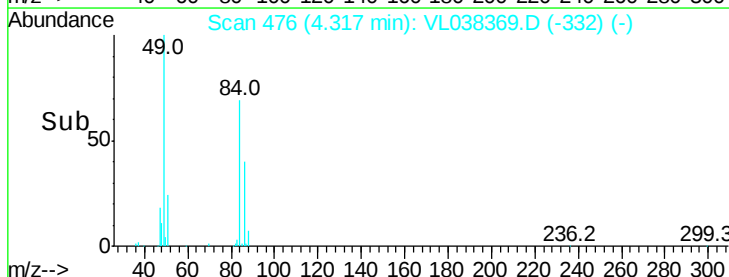
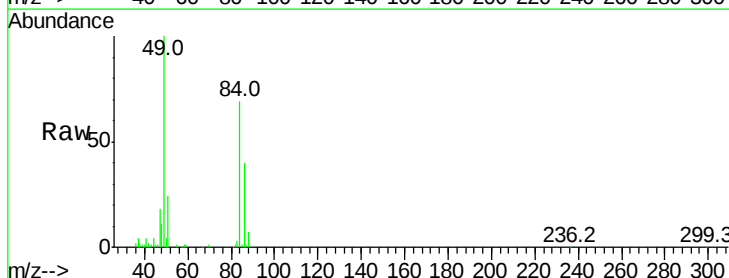
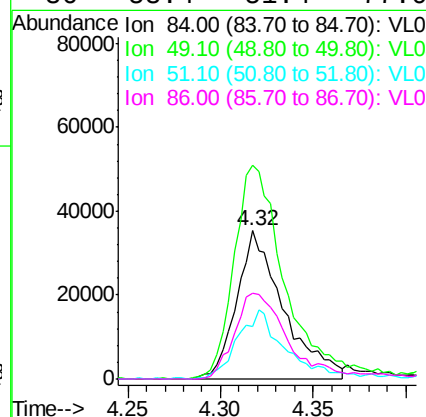
Ion Ratio Lower Upper

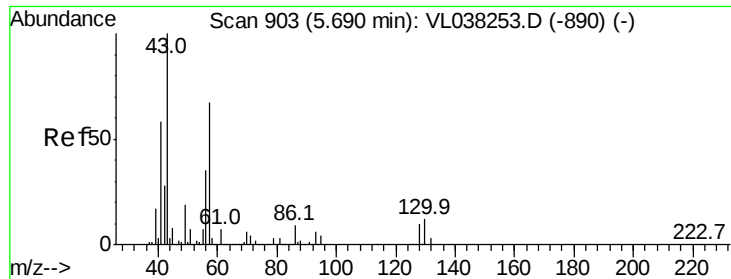
84 100

49 143.6 115.0 172.6

51 35.1 35.0 52.6

86 58.4 51.4 77.0



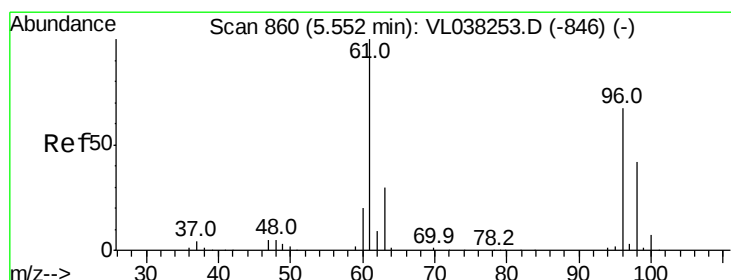
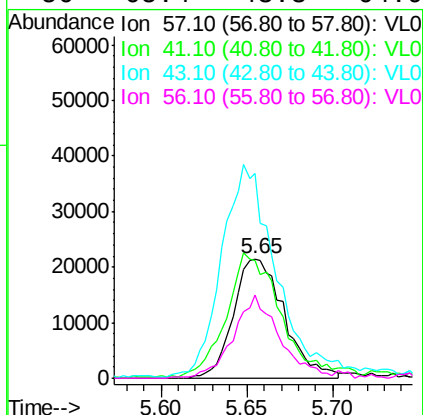
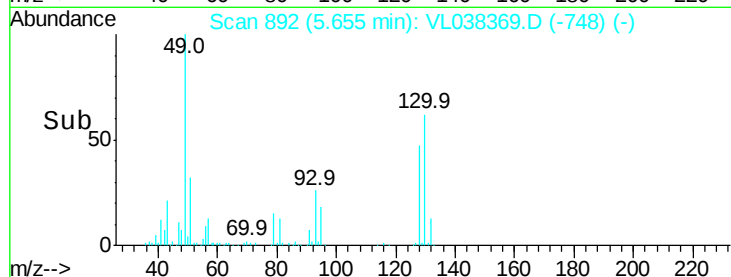
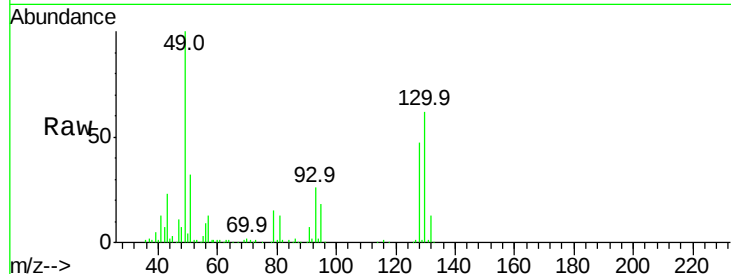


#26
Hexane
Concen: 0.43 ppbv
RT: 5.65
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Feb 2022 16:43

Tgt Ion: 57 100
Ion Ratio 41 118.
43 199.
56 65.4 43.3 64.9#

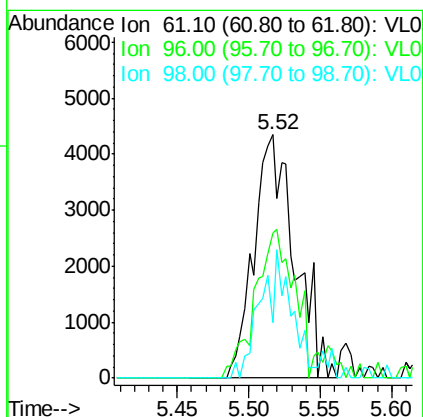
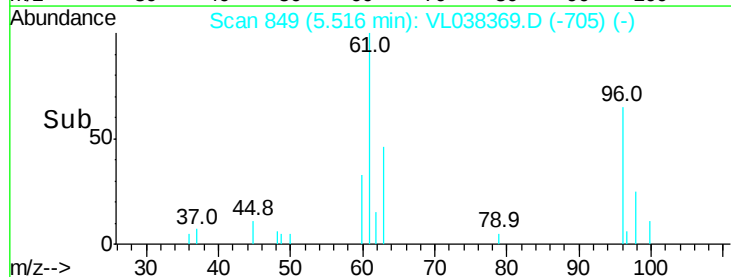
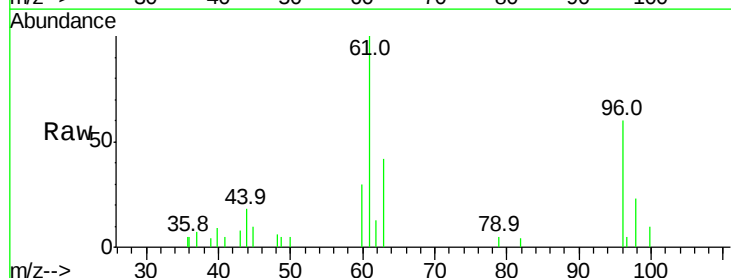
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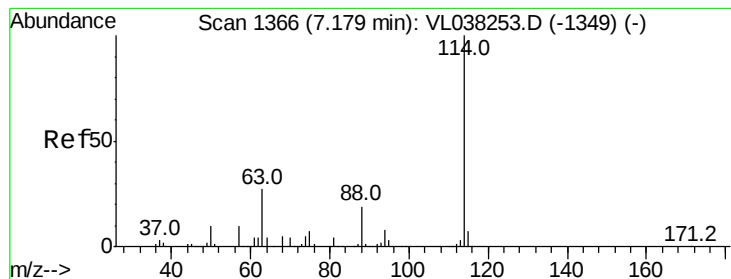
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#31
cis-1,2-Dichloroethene
Concen: 0.10 ppbv m
RT: 5.52 min Scan# 849
Delta R.T. -0.04 min
Lab File: VL038369.D
Acq: 16 Feb 2022 16:43

Tgt Ion: 61 Resp: 8616
Ion Ratio Lower Upper
61 100
96 59.7 53.3 79.9
98 22.5 33.7 50.5#





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Feb 2022 16:43 SVP-1

Tgt Ion:1

Ion Ratio

114 100

63 27.

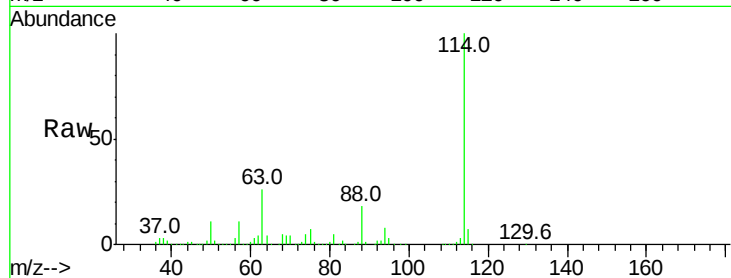
88 18.

Manual Integrations

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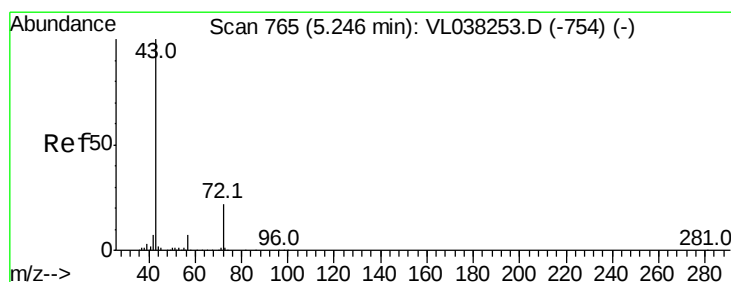
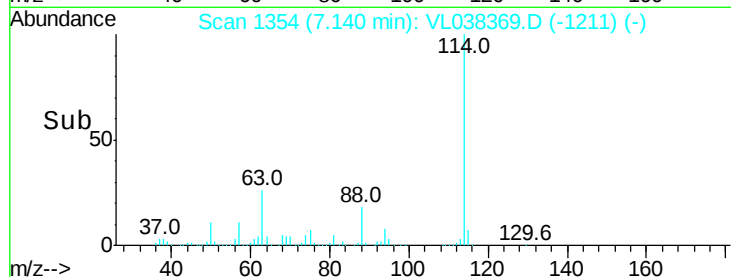
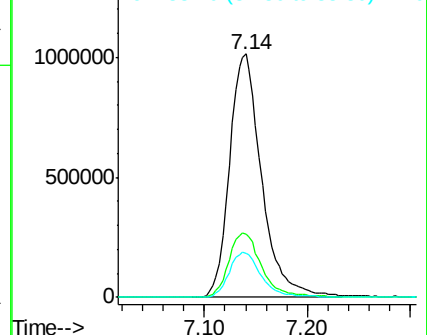
Supervised By :Mahesh Dadoda 02/21/2022



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.19 ppbv

RT: 5.21 min Scan# 755

Delta R.T. -0.03 min

Lab File: VL038369.D

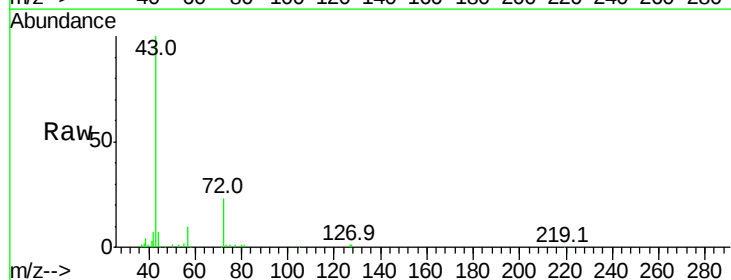
Acq: 16 Feb 2022 16:43

Tgt Ion: 43 Resp: 85620

Ion Ratio Lower Upper

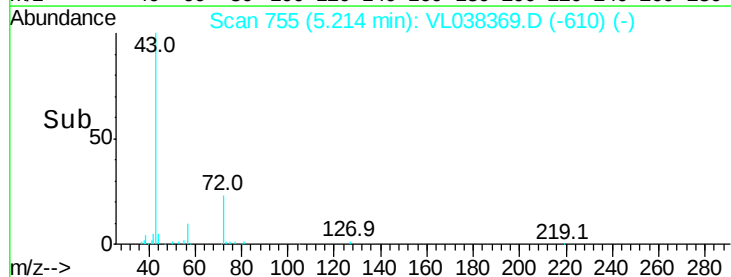
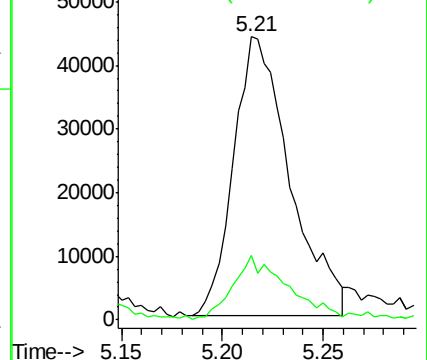
43 100

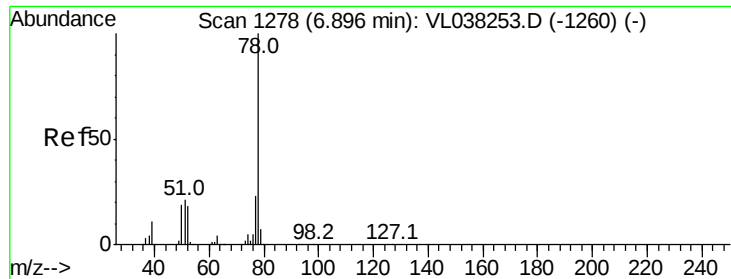
72 23.9 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



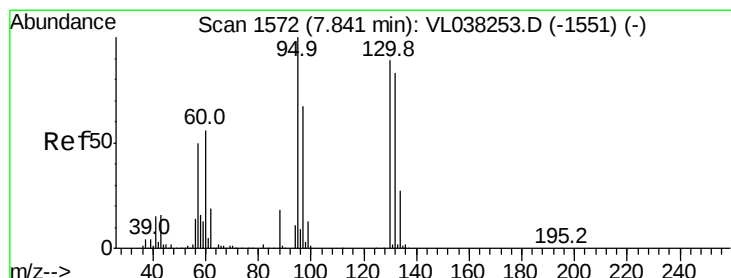
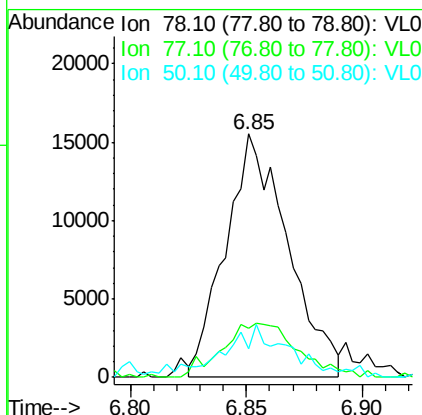
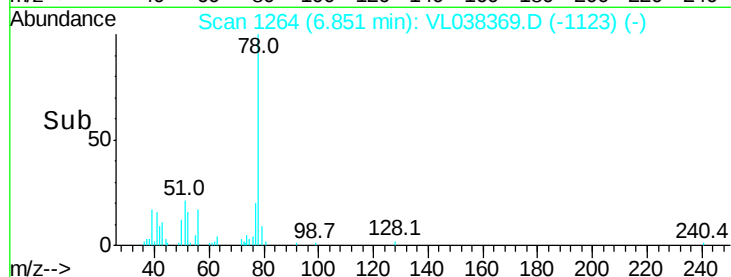
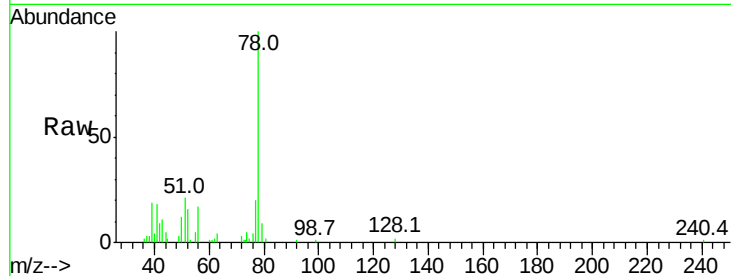


#36
Benzene
Concen: 0.15 ppbv
RT: 6.85
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Feb 2022 16:43

Tgt Ion:
Ion Ratio
78 100
77 17.
50 10.

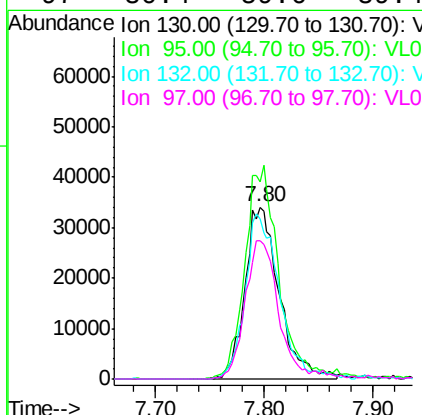
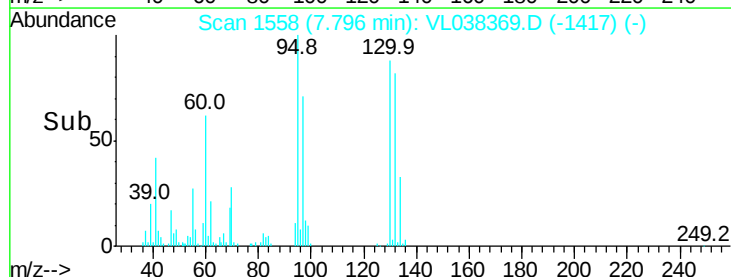
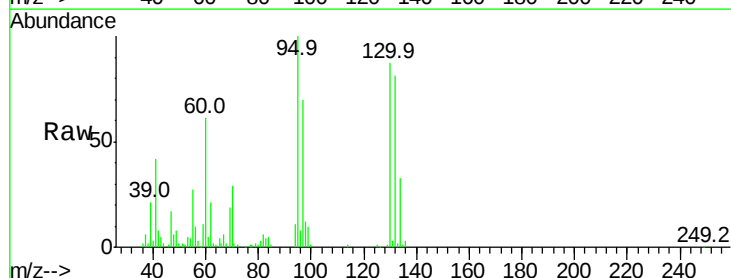
Manual Integrations
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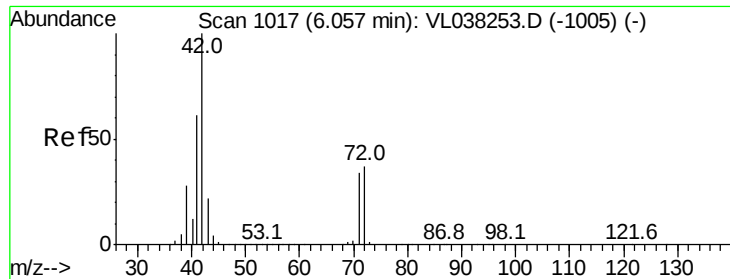
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#38
Trichloroethene
Concen: 1.02 ppbv m
RT: 7.80 min Scan# 1558
Delta R.T. -0.05 min
Lab File: VL038369.D
Acq: 16 Feb 2022 16:43

Tgt Ion:130 Resp: 74187
Ion Ratio Lower Upper
130 100
95 114.5 89.4 134.2
132 93.2 74.6 111.8
97 80.4 59.6 89.4



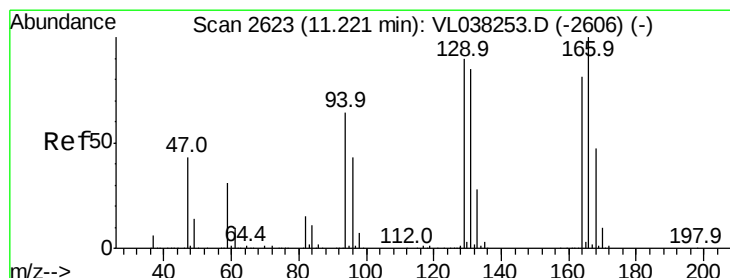
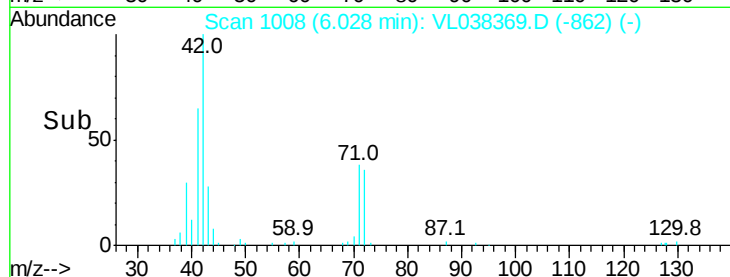
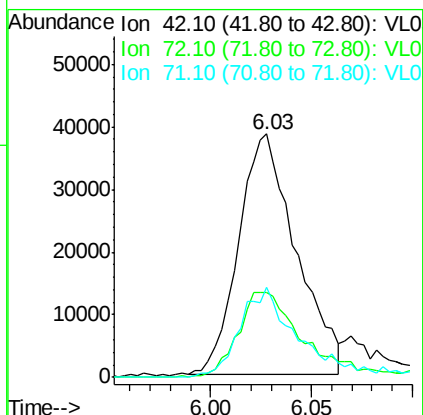
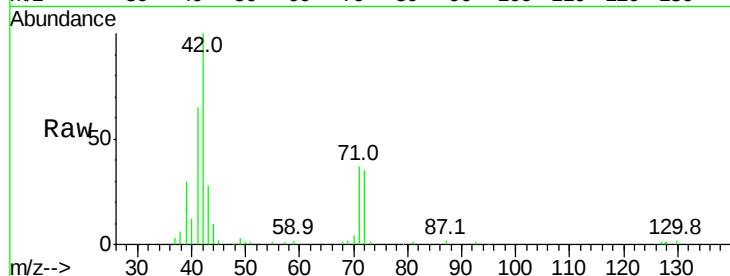


#41
Tetrahydrofuran
Concen: 1.58 ppbv
RT: 6.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Feb 2022 16:43

Tgt Ion:
Ion Ratio
42 100
72 41.
71 39.

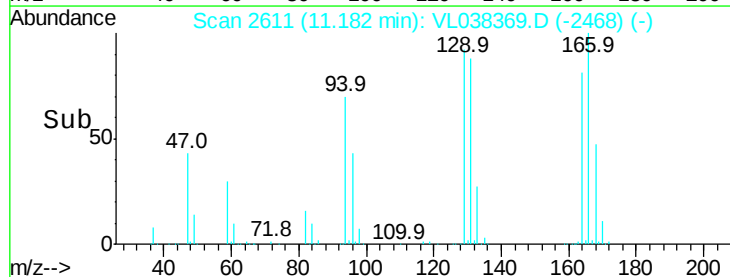
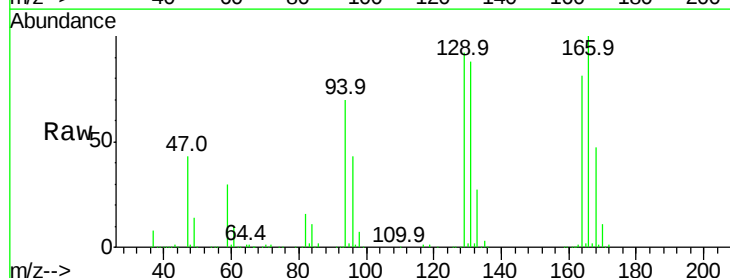
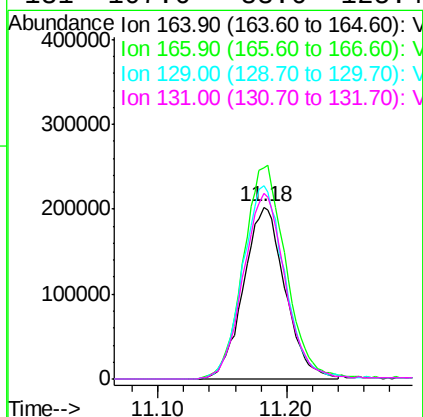
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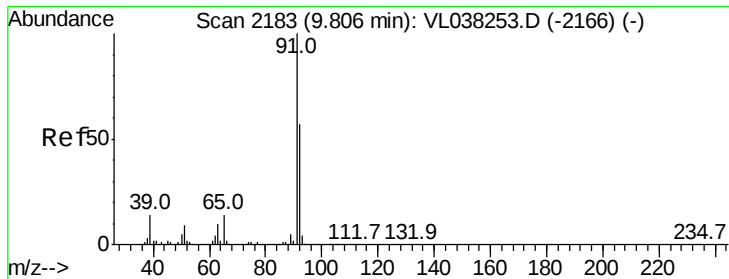
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#52
Tetrachloroethene
Concen: 6.76 ppbv
RT: 11.18 min Scan# 2611
Delta R.T. -0.04 min
Lab File: VL038369.D
Acq: 16 Feb 2022 16:43

Tgt Ion:164 Resp: 452806
Ion Ratio Lower Upper
164 100
166 122.7 98.8 148.2
129 112.2 89.2 133.8
131 107.6 83.6 125.4





#53

Toluene

Concen: 8.36 ppbv

RT: 9.76

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Feb 2022 16:43

Tgt Ion:

Ion Ratio

91 100

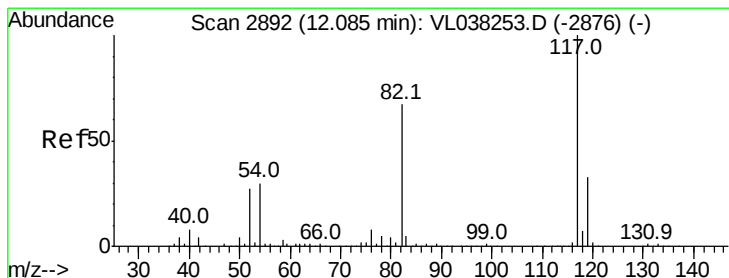
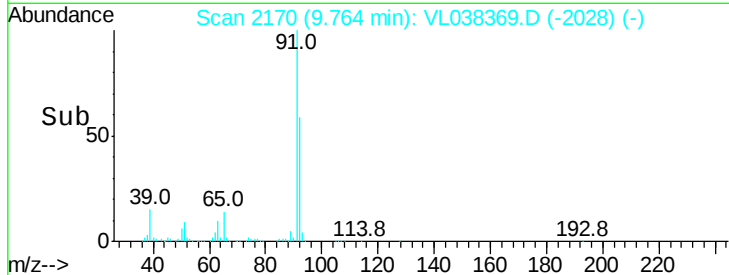
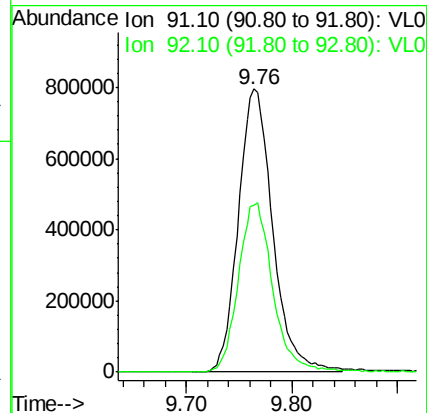
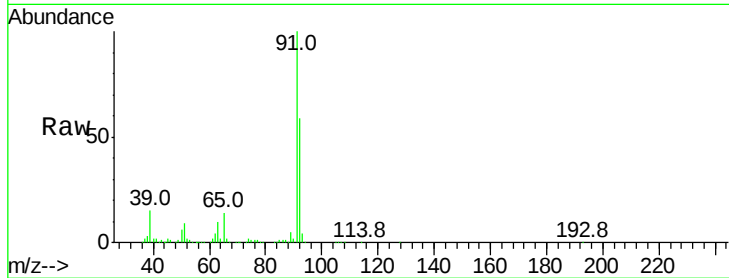
92 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/21/2022

Supervised By :Mahesh Dadoda 02/21/2022



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.04 min Scan# 2879

Delta R.T. -0.04 min

Lab File: VL038369.D

Acq: 16 Feb 2022 16:43

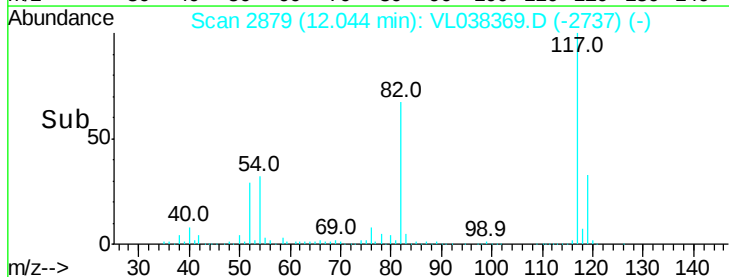
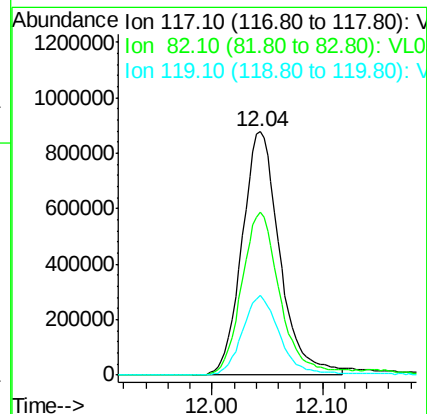
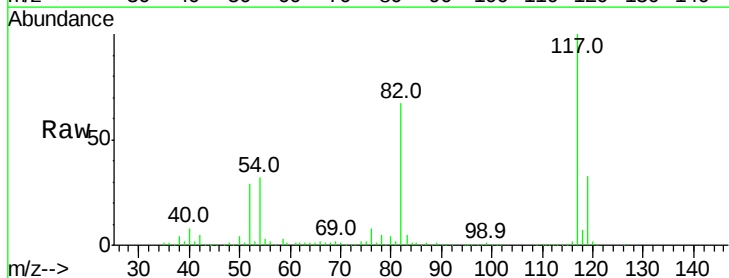
Tgt Ion:117 Resp: 2078227

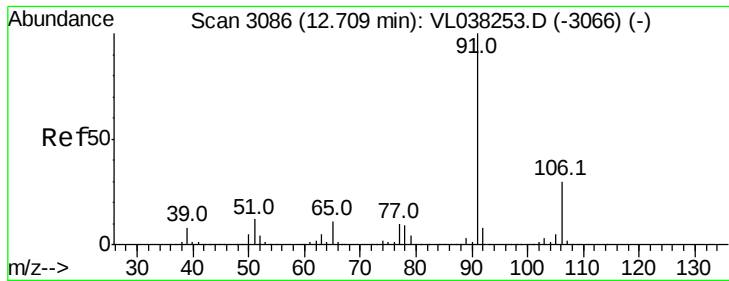
Ion Ratio Lower Upper

117 100

82 71.7 54.4 81.6

119 33.7 45.9 68.9#



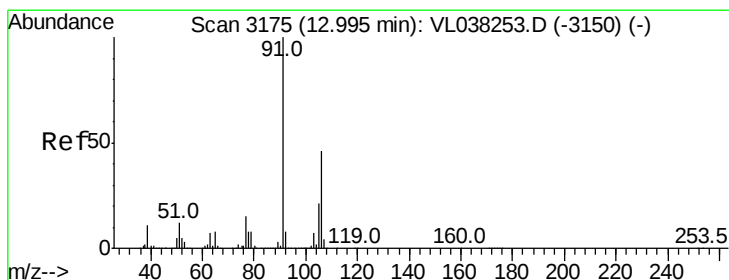
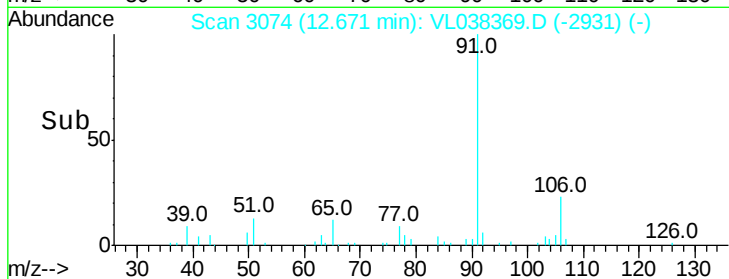
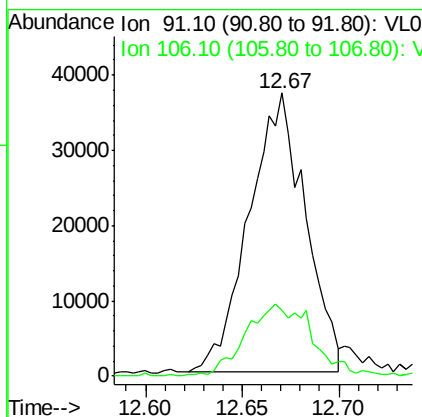
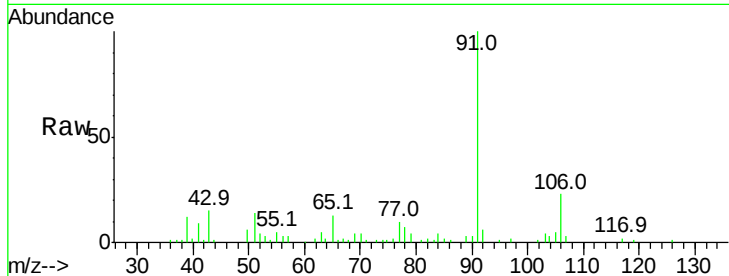


#58
Ethyl Benzene
Concen: 0.25 ppbv
RT: 12.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SVP-1
Acq: 16 Feb 2022 16:43

Tgt Ion:
Ion Ratio
91 100
106 22.

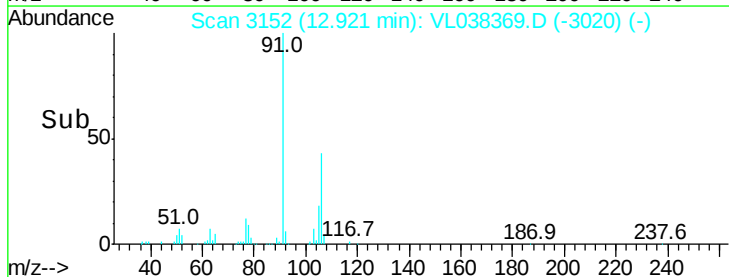
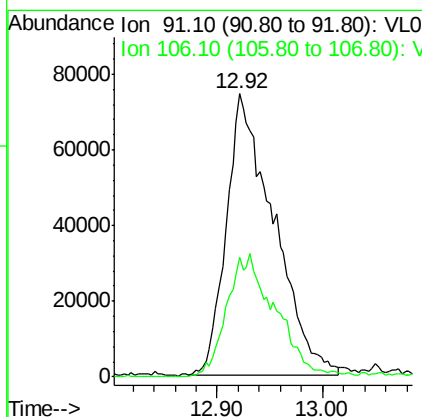
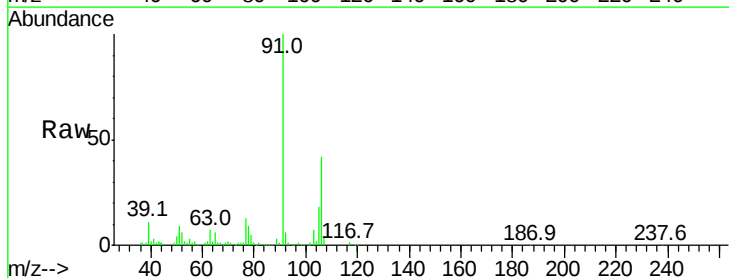
Manual Integrations
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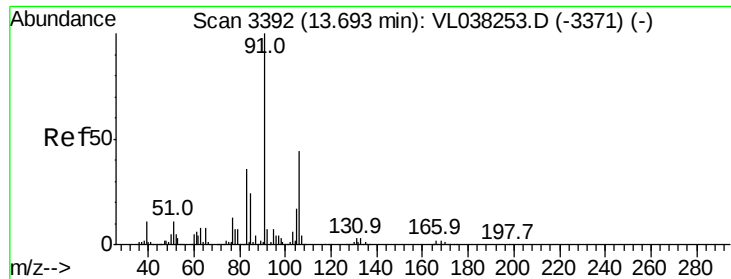
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#59
m/p-Xylene
Concen: 0.88 ppbv
RT: 12.92 min Scan# 3152
Delta R.T. -0.07 min
Lab File: VL038369.D
Acq: 16 Feb 2022 16:43

Tgt Ion: 91 Resp: 229926
Ion Ratio Lower Upper
91 100
106 45.0 34.8 52.2



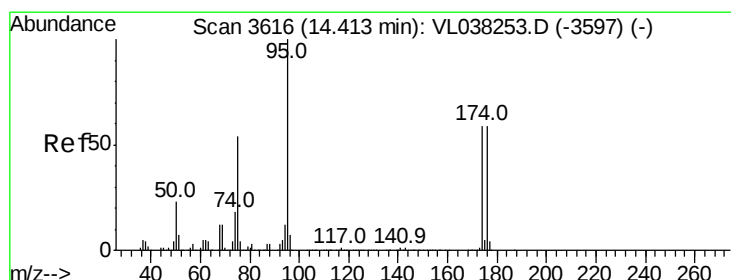
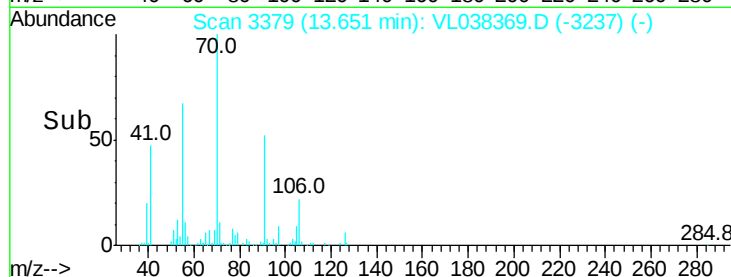
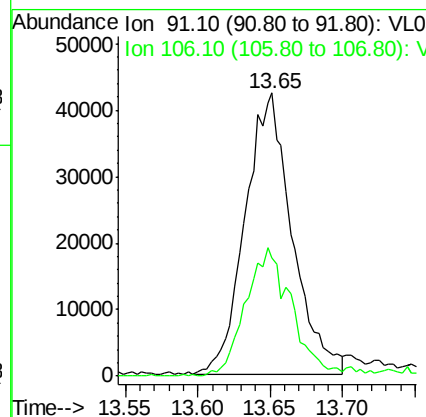
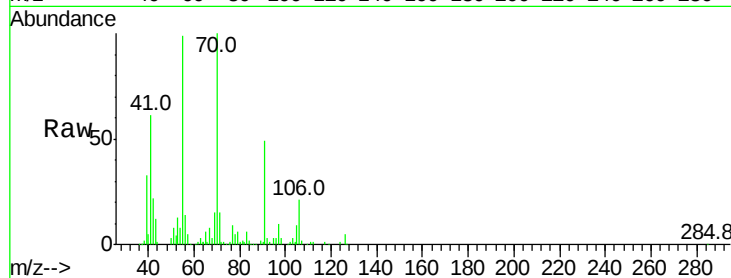


#60
o-Xylene
Concen: 0.39 ppbv
RT: 13.65
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVP-1
Acq: 16 Feb 2022 16:43

Tgt Ion:
Ion Ratio
91 100
106 45.

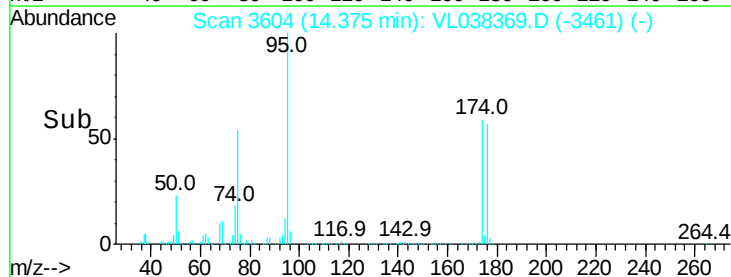
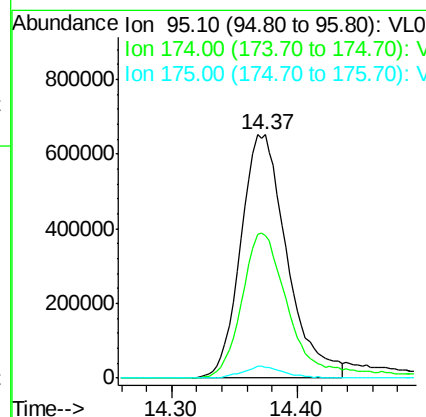
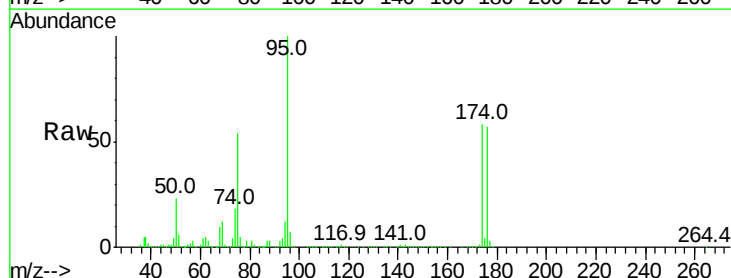
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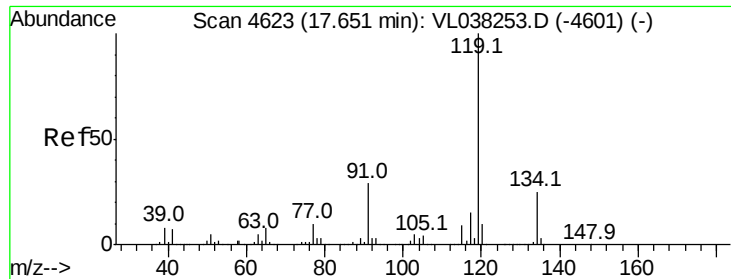
Reviewed By :Semsettin Yesilyurt 02/21/2022
Supervised By :Mahesh Dadoda 02/21/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.56 ppbv
RT: 14.37 min Scan# 3604
Delta R.T. -0.04 min
Lab File: VL038369.D
Acq: 16 Feb 2022 16:43

Tgt Ion: 95 Resp: 1666181
Ion Ratio Lower Upper
95 100
174 63.7 48.3 72.5
175 4.6 3.5 5.3



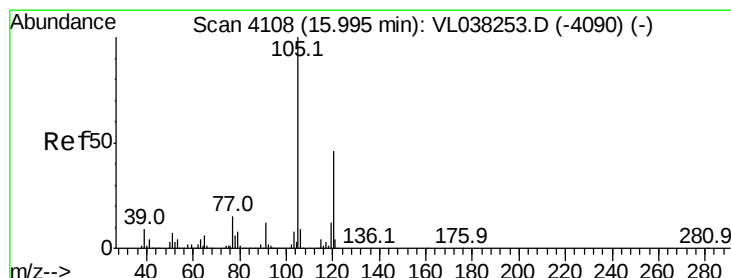
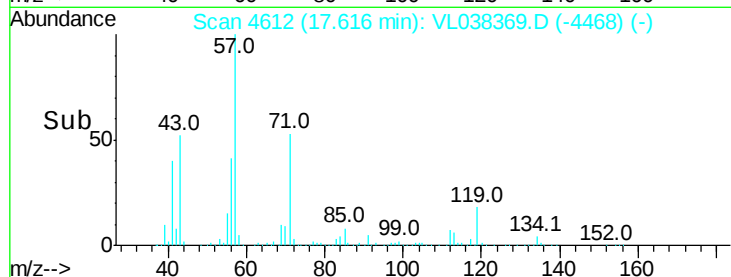
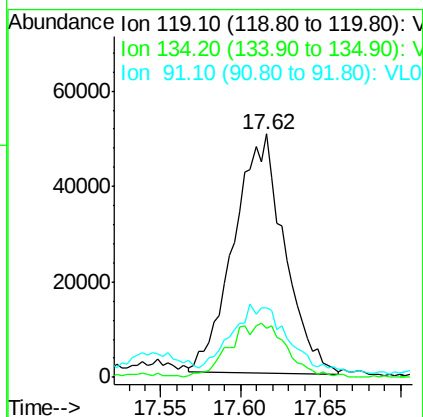
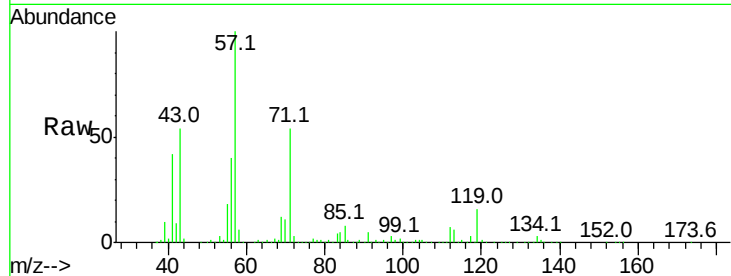


#69
 p-Isopropyltoluene
 Concen: 0.38 ppbv
 RT: 17.62
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SVP-1
 Acq: 16 Feb 2022 16:43

Tgt Ion:1
 Ion Ratio
 119 100
 134 26.
 91 34.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/21/2022
 Supervised By :Mahesh Dadoda 02/21/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 0.15 ppbv m
 RT: 15.95 min Scan# 4094
 Delta R.T. -0.05 min
 Lab File: VL038369.D
 Acq: 16 Feb 2022 16:43

Tgt Ion:105 Resp: 34657
 Ion Ratio Lower Upper
 105 100
 120 27.6 36.6 55.0#

