

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038722.D
 Acq On : 23 Mar 2022 19:11
 Operator : SY/AP
 Sample : N2047-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P99DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/24/2022
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 24 05:48:57 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	757511	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2043495	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1931673	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1400778	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	26442	0.26	ppbv	90
3) Chlorodifluoromethane	2.99	51	32384m	0.40	ppbv	
4) Chloromethane	3.13	50	10499	0.24	ppbv	95
9) Propene	3.01	41	75311	1.95	ppbv	83
11) Trichlorofluoromethane	3.94	101	24509	0.27	ppbv	95
13) Ethanol	3.59	45	142096	33.35	ppbv	100
15) Acetone	3.84	43	842731	12.89	ppbv	91
17) tert-Butyl alcohol	4.29	59	22937	0.40	ppbv #	91
19) Isopropyl Alcohol	3.96	45	30329	0.84	ppbv #	1
20) Methylene Chloride	4.34	84	124088	4.51	ppbv	92
26) Hexane	5.67	57	78927	1.07	ppbv #	37
27) Carbon Disulfide	4.55	76	7730m	0.11	ppbv	
29) Chloroform	5.74	83	48408	0.41	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	7116	0.10	ppbv #	83
34) 2-Butanone	5.23	43	657150	8.12	ppbv	97
35) Carbon Tetrachloride	7.01	117	7655m	0.06	ppbv	
36) Benzene	6.88	78	25249m	0.16	ppbv	
38) Trichloroethene	7.82	130	23997	0.36	ppbv	88
51) 2-Hexanone	10.13	43	67873	0.63	ppbv #	96
52) Tetrachloroethene	11.22	164	6471769	112.13	ppbv	95
53) Toluene	9.79	91	68259	0.40	ppbv	96
59) m/p-Xylene	12.94	91	29424m	0.15	ppbv	

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

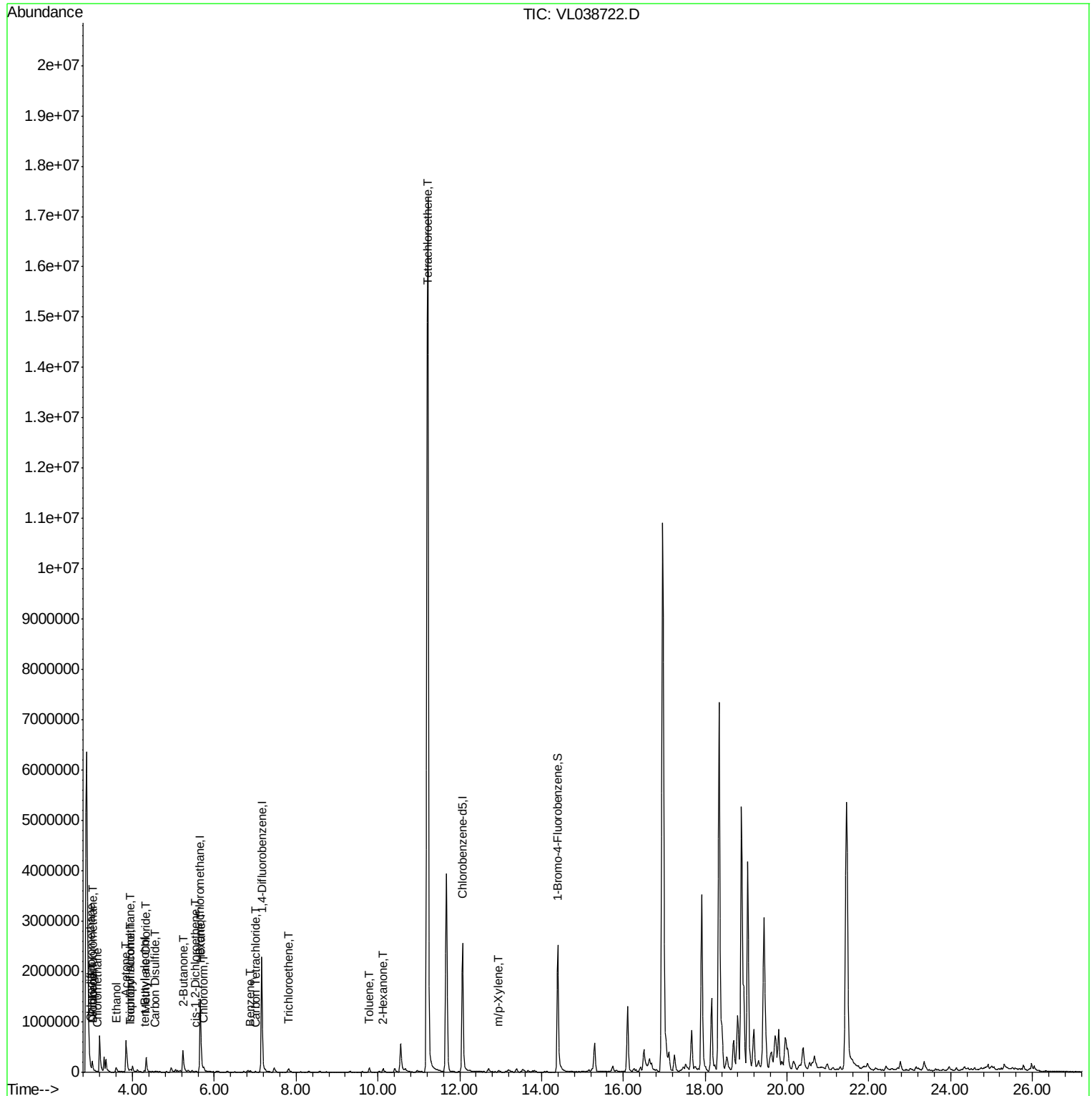
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
Data File : VL038722.D
Acq On : 23 Mar 2022 19:11
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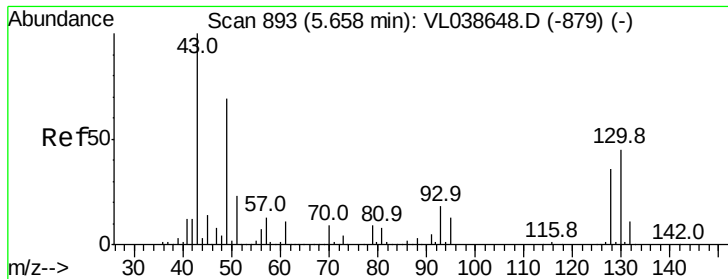
Instrument :
MSVOA_L
ClientSampleId :
C0P99DUP

Quant Time: Mar 24 05:48:57 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

49 100

128 56.

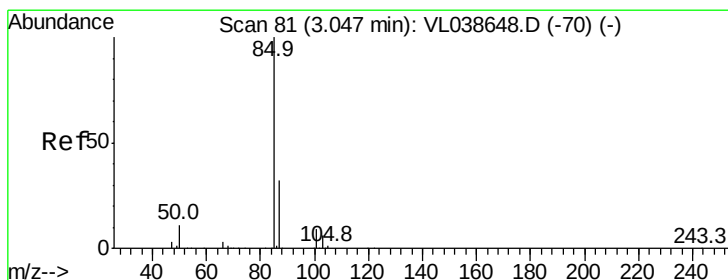
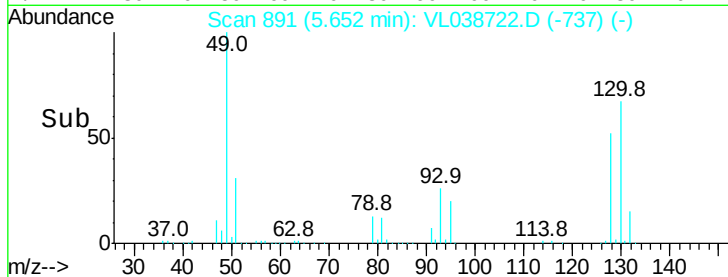
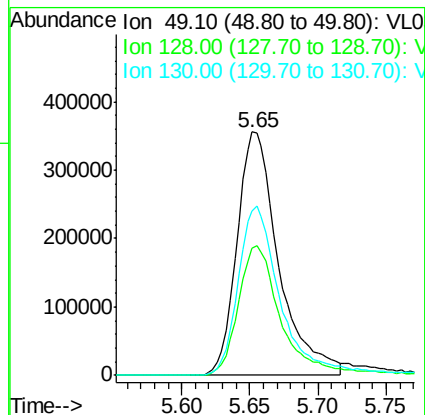
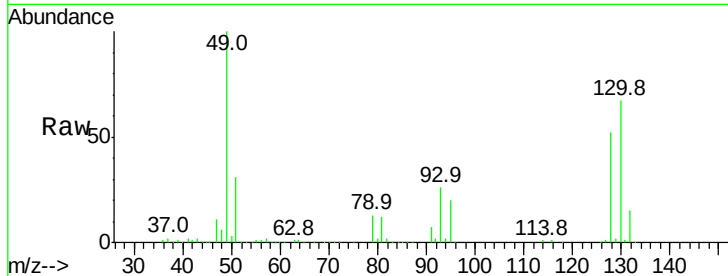
130 73.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#2

Dichlorodifluoromethane

Concen: 0.26 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL038722.D

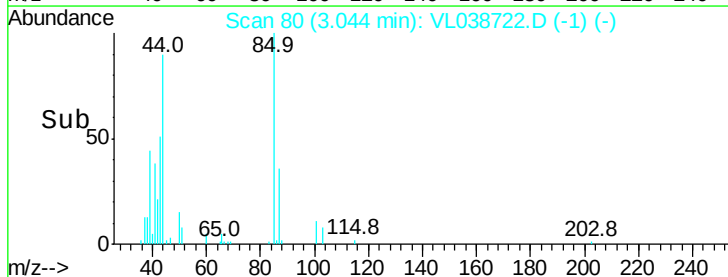
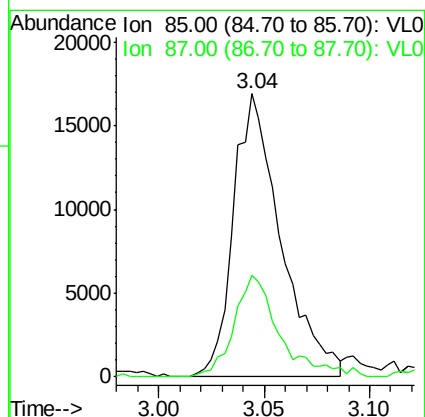
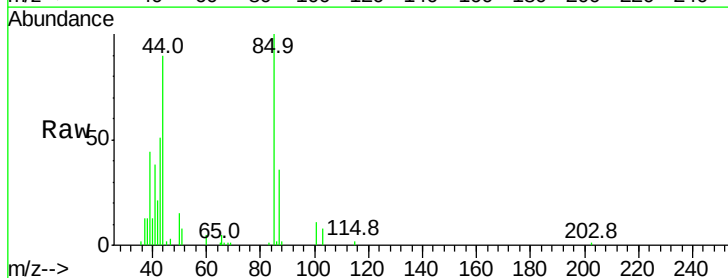
Acq: 23 Mar 2022 19:11

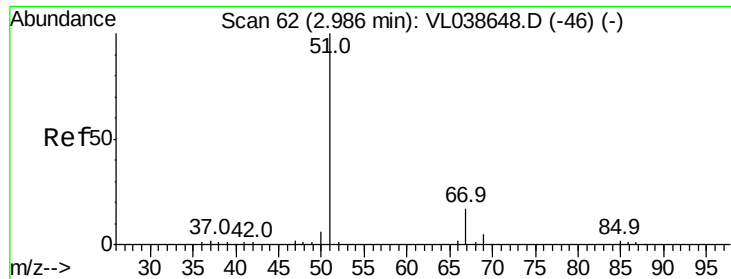
Tgt Ion: 85 Resp: 26442

Ion Ratio Lower Upper

85 100

87 38.4 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.40 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

51 100

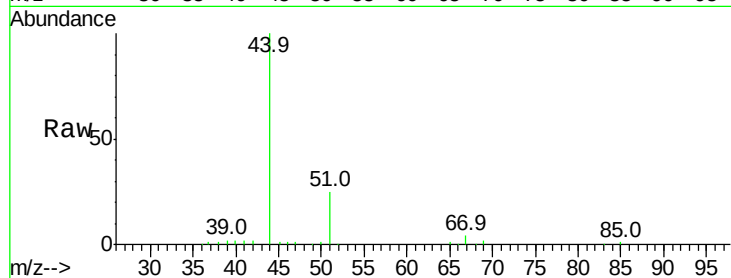
67 14.

Manual Integrations

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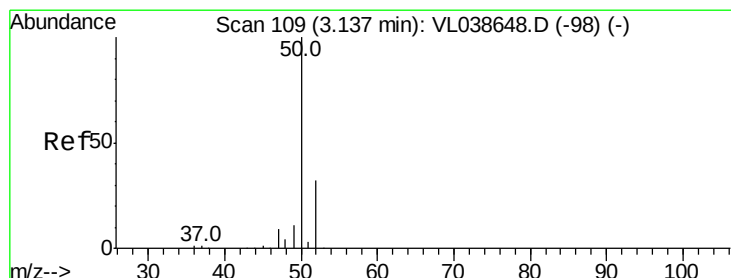
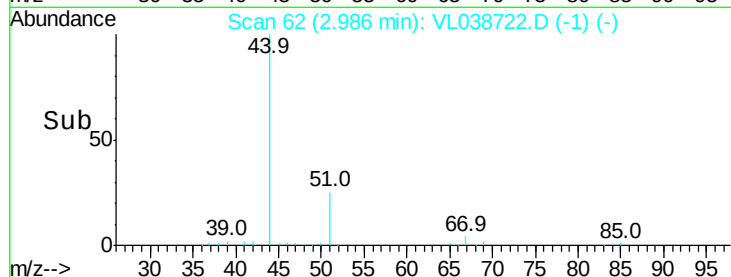
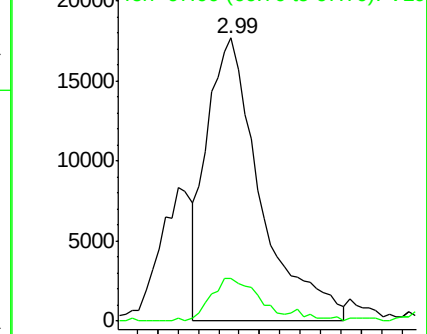
Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.24 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL038722.D

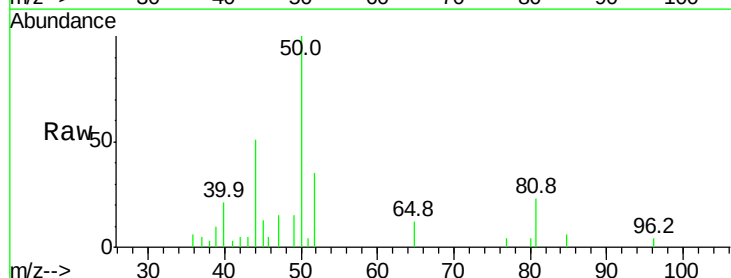
Acq: 23 Mar 2022 19:11

Tgt Ion: 50 Resp: 10499

Ion Ratio Lower Upper

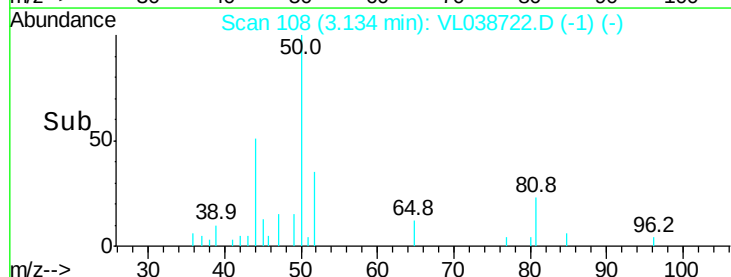
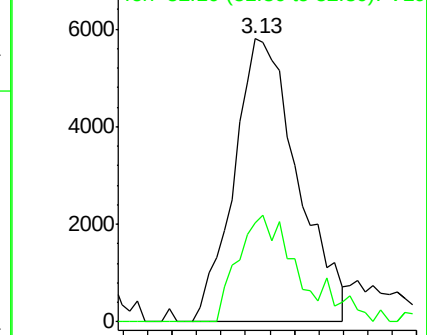
50 100

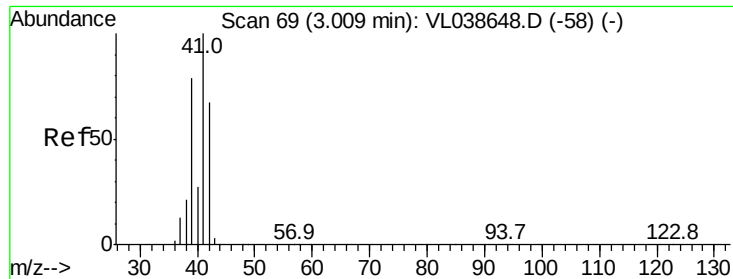
52 34.9 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.95 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

41 100

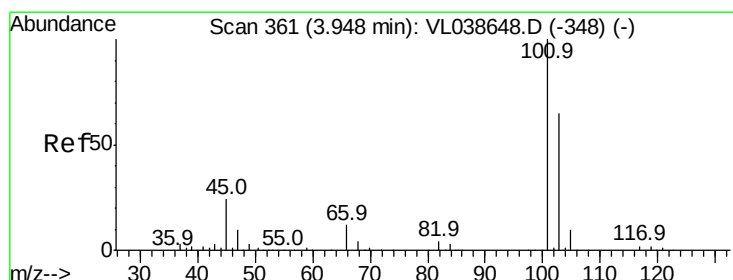
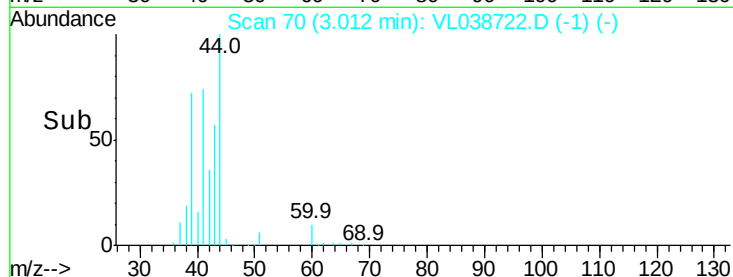
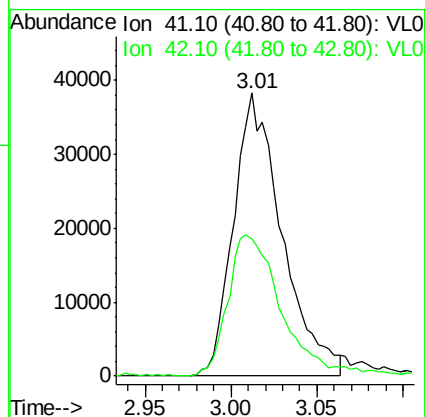
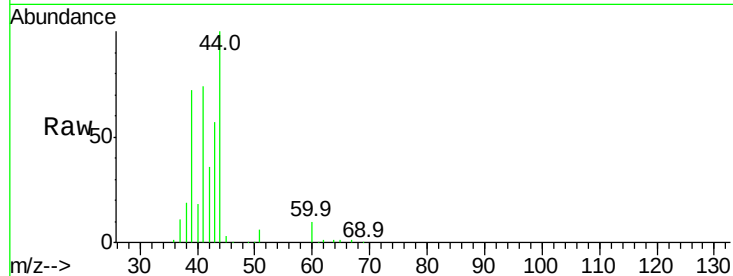
42 56.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#11

Trichlorofluoromethane

Concen: 0.27 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL038722.D

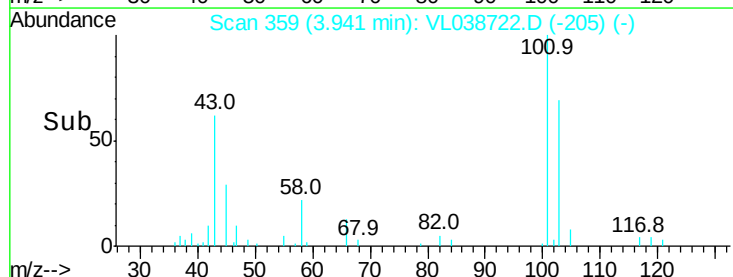
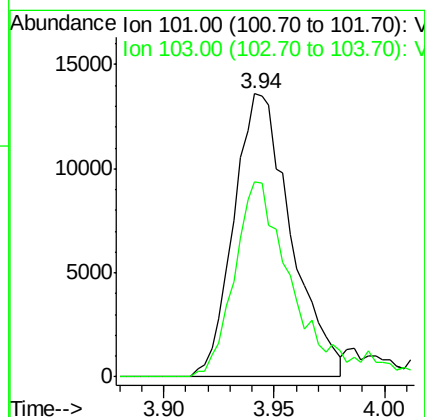
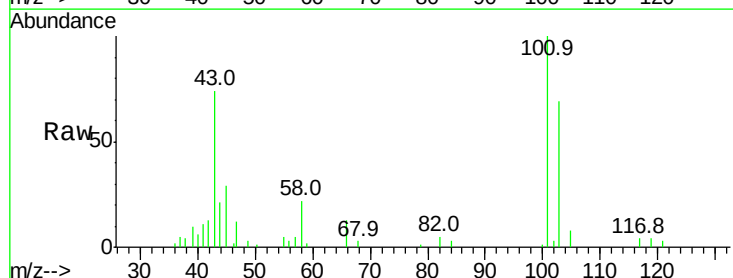
Acq: 23 Mar 2022 19:11

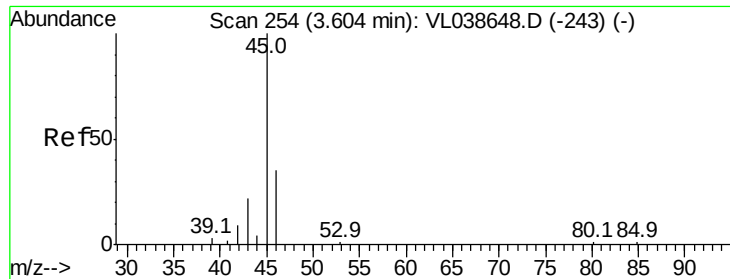
Tgt Ion:101 Resp: 24509

Ion Ratio Lower Upper

101 100

103 68.8 51.9 77.9



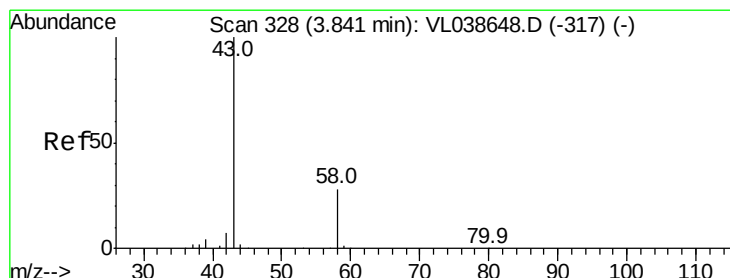
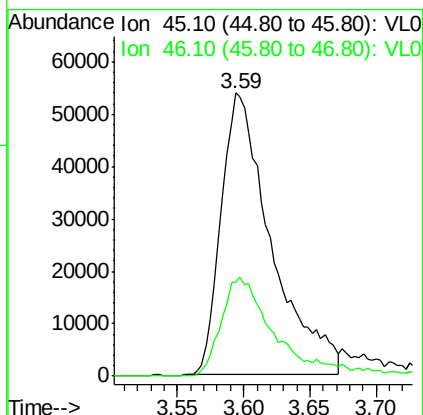
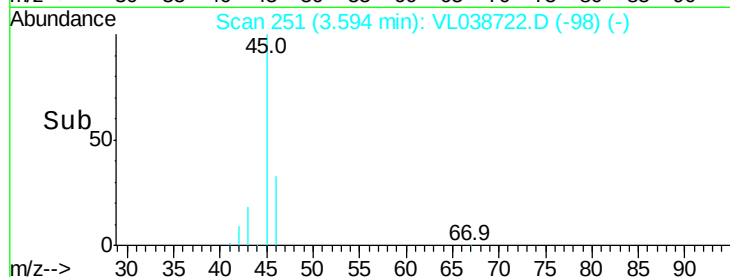
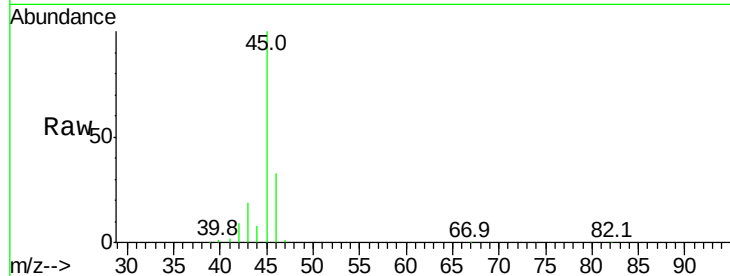


#13
Ethanol
Concen: 33.35 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP99DUP
Acq: 23 Mar 2022 19:11

Tgt Ion:
Ion Ratio
45 100
46 38.

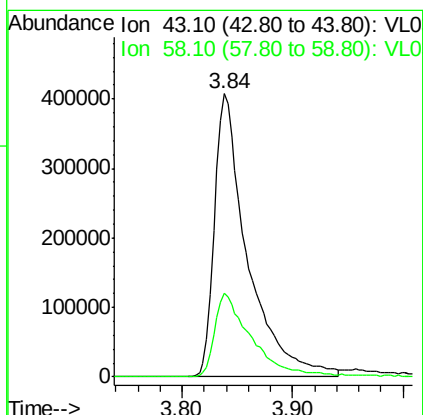
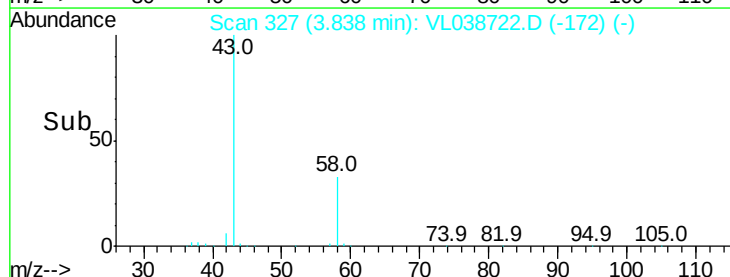
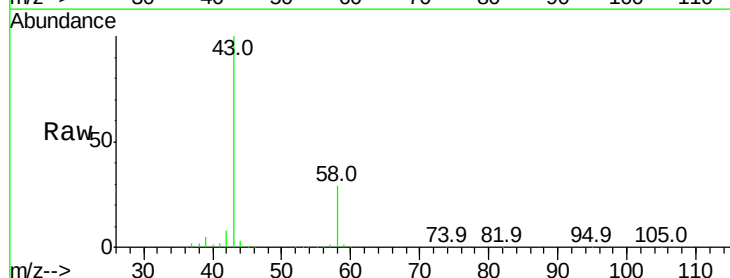
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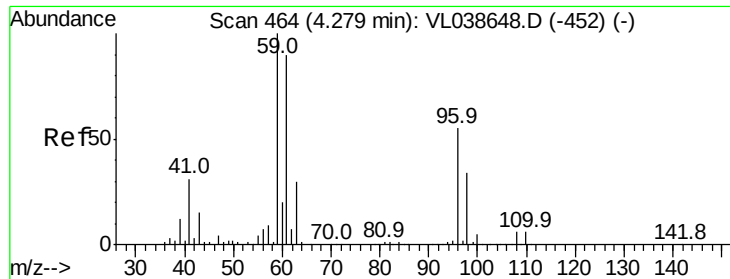
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#15
Acetone
Concen: 12.89 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL038722.D
Acq: 23 Mar 2022 19:11

Tgt Ion: 43 Resp: 842731
Ion Ratio Lower Upper
43 100
58 34.1 23.3 34.9



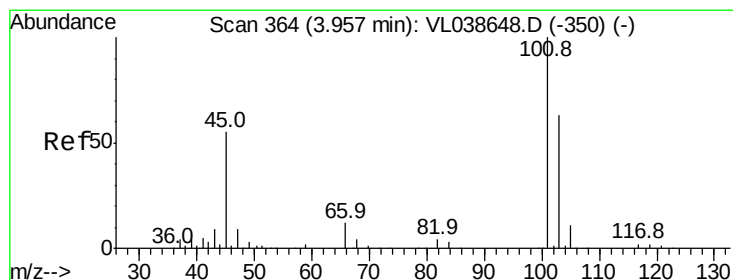
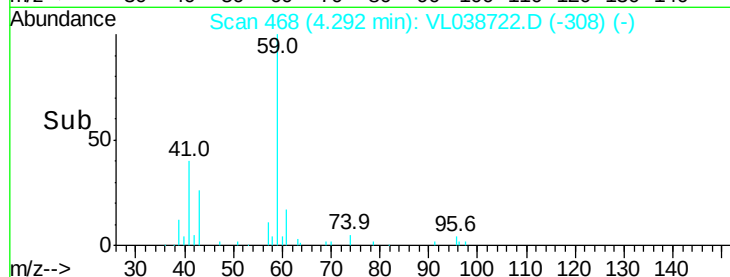
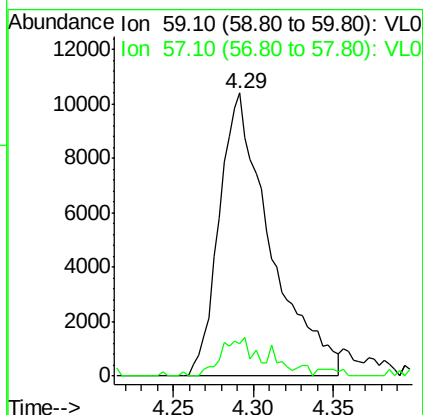
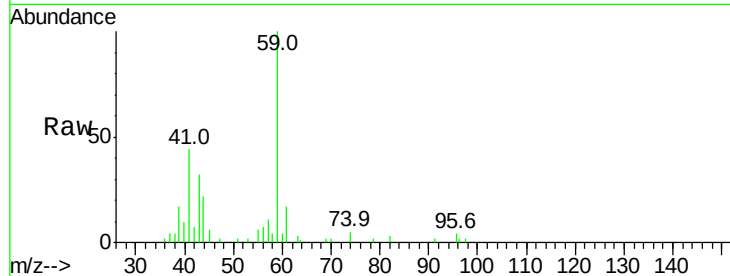


#17
 tert-Butyl alcohol
 Concen: 0.40 ppbv
 RT: 4.29
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 C0P99DUP
 Acq: 23 Mar 2022 19:11

Tgt Ion:
 Ion Ratio
 59 100
 57 13.

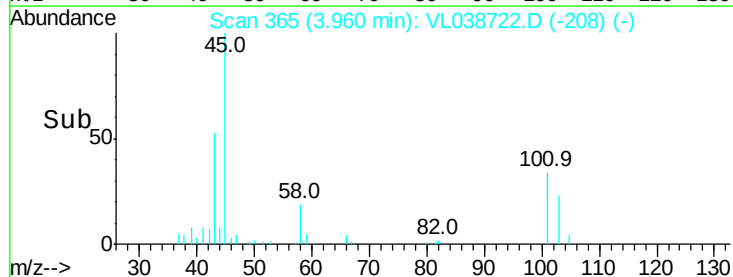
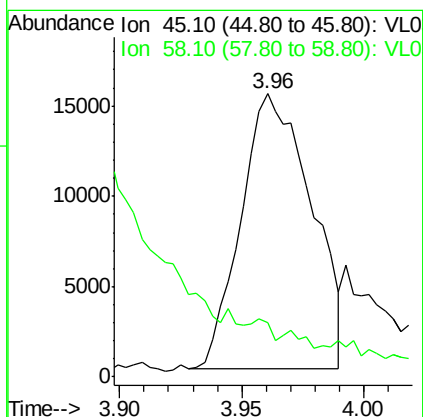
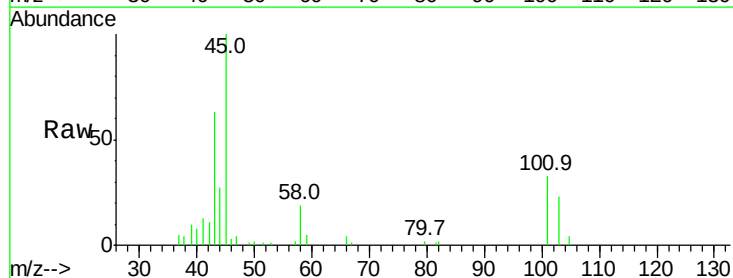
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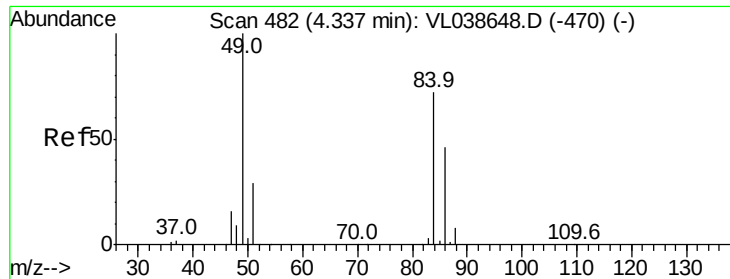
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#19
 Isopropyl Alcohol
 Concen: 0.84 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL038722.D
 Acq: 23 Mar 2022 19:11

Tgt Ion: 45 Resp: 30329
 Ion Ratio Lower Upper
 45 100
 58 948.5 2.3 3.5#



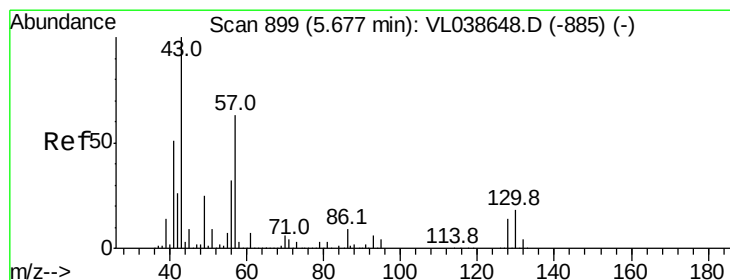
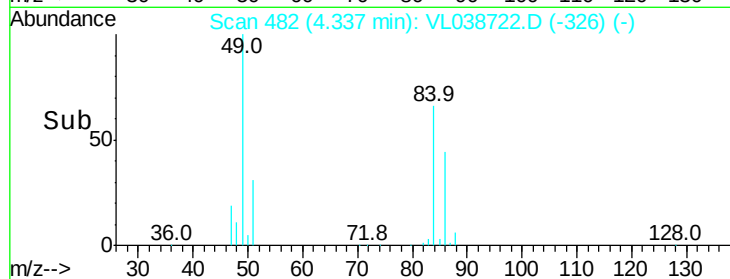
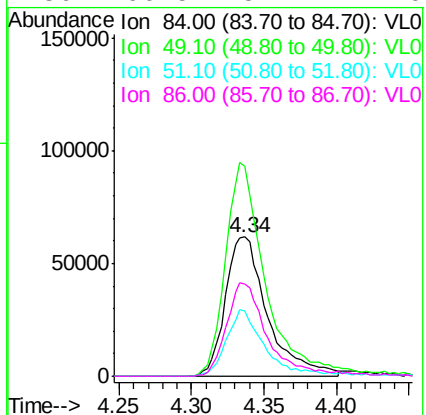
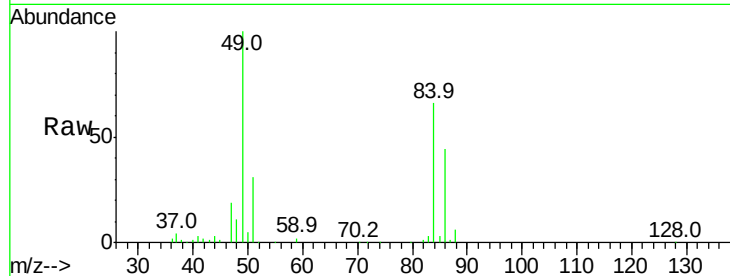


#20
Methylene Chloride
Concen: 4.51 ppbv
RT: 4.34
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 19:11

Tgt Ion:
Ion Ratio
84 100
49 149.
51 47.
86 66.5 51.4 77.0

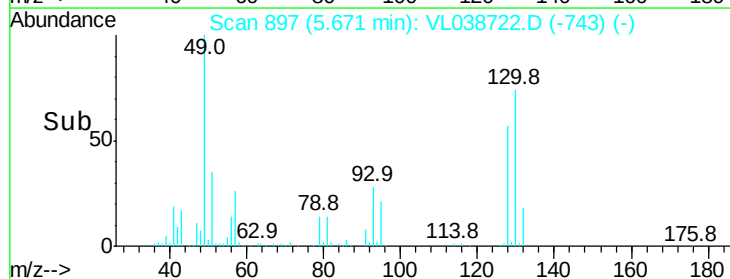
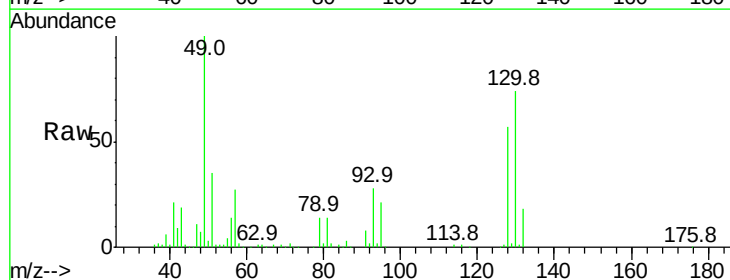
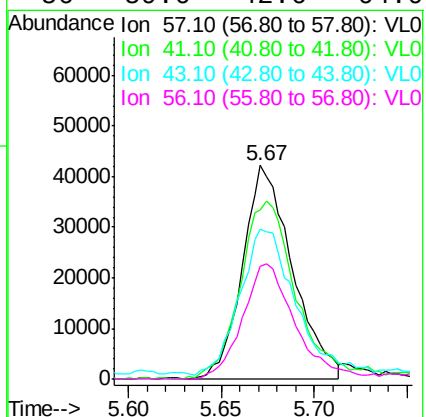
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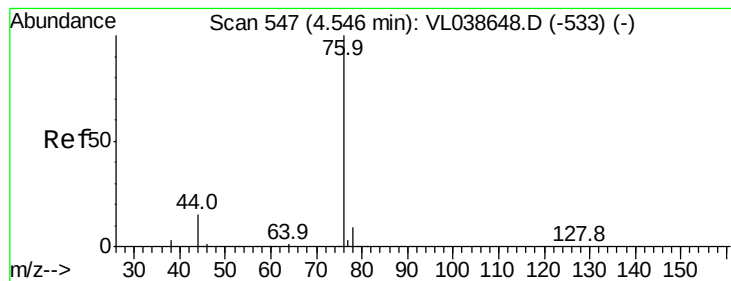
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#26
Hexane
Concen: 1.07 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL038722.D
Acq: 23 Mar 2022 19:11

Tgt Ion: 57 Resp: 78927
Ion Ratio Lower Upper
57 100
41 98.0 67.0 100.4
43 77.7 184.2 276.2#
56 59.6 42.6 64.0





#27

Carbon Disulfide

Concen: 0.11 ppbv m

RT: 4.55 Instrument: MSVOA_L

Delta R.T. -0.01 min

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

76 100

44 16.

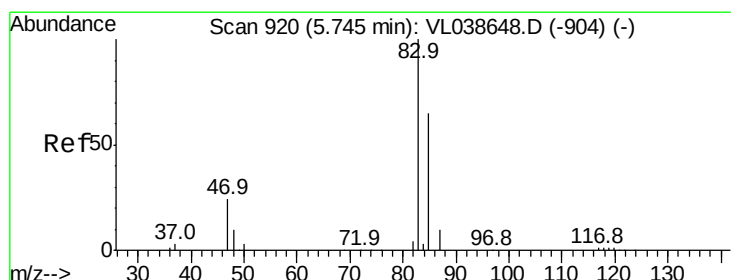
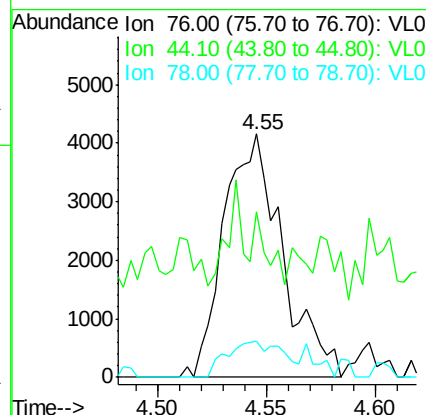
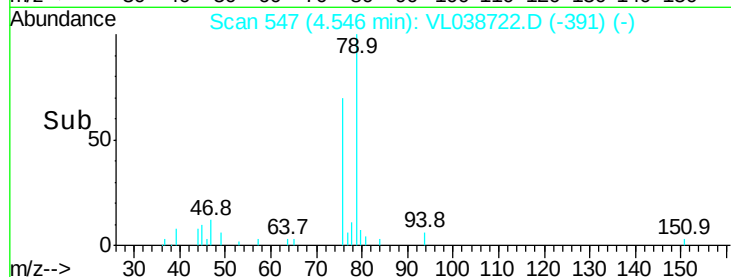
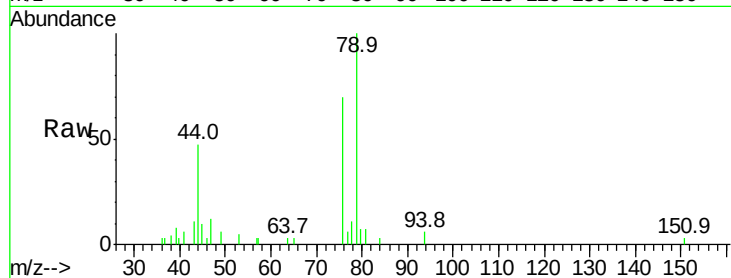
78 19.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#29

Chloroform

Concen: 0.41 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.01 min

Lab File: VL038722.D

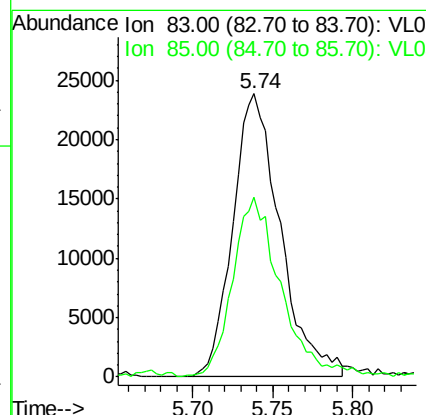
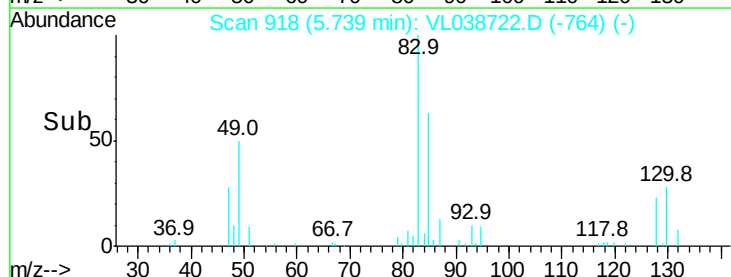
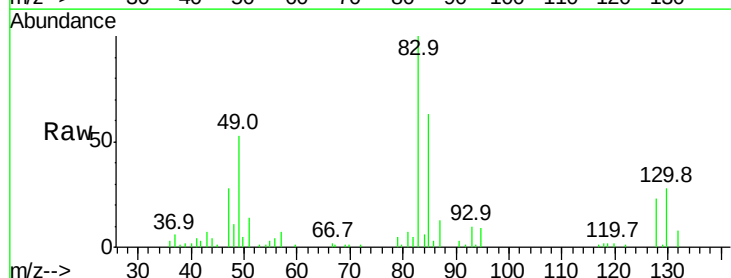
Acq: 23 Mar 2022 19:11

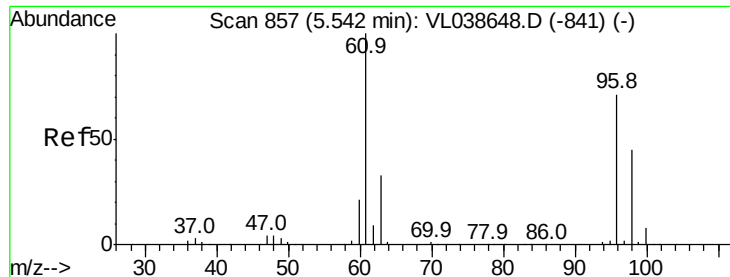
Tgt Ion: 83 Resp: 48408

Ion Ratio Lower Upper

83 100

85 62.7 51.7 77.5





#31

cis-1,2-Dichloroethene

Concen: 0.10 ppbv

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11 C0P99DUP

Tgt Ion:

Ion Ratio

61 100

96 49.

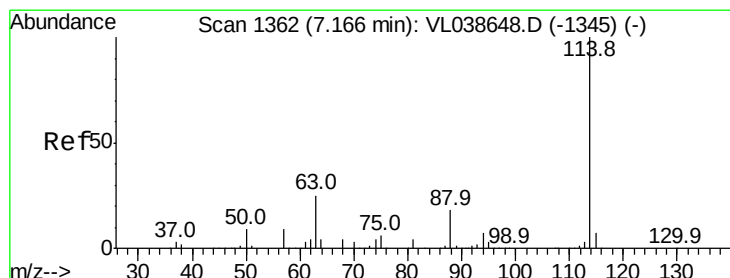
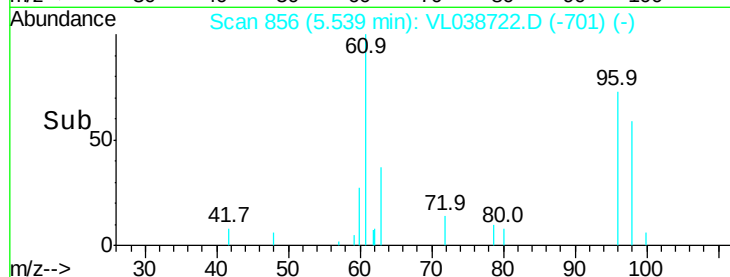
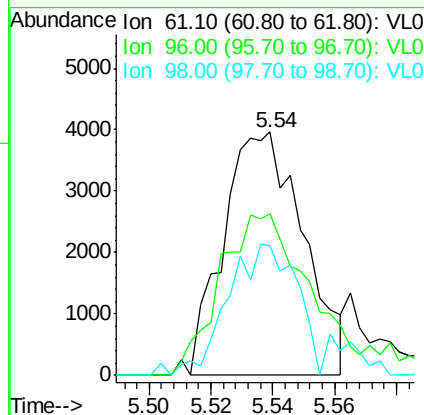
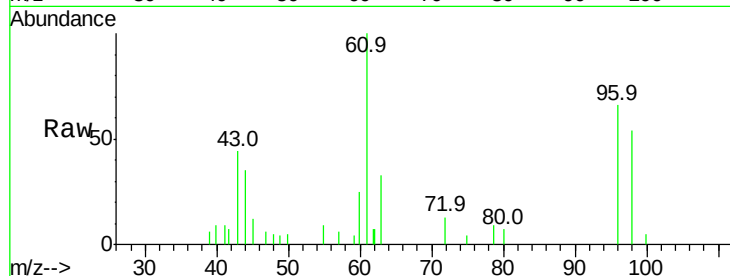
98 44.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL038722.D

Acq: 23 Mar 2022 19:11

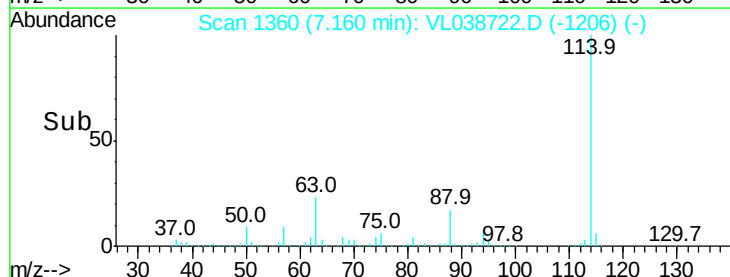
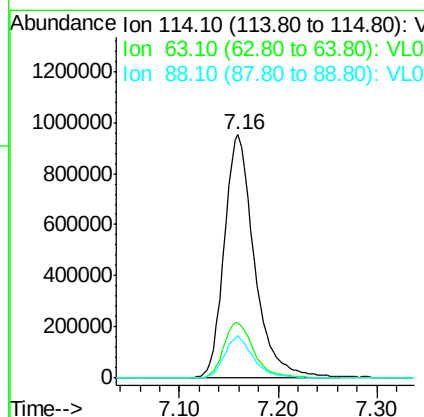
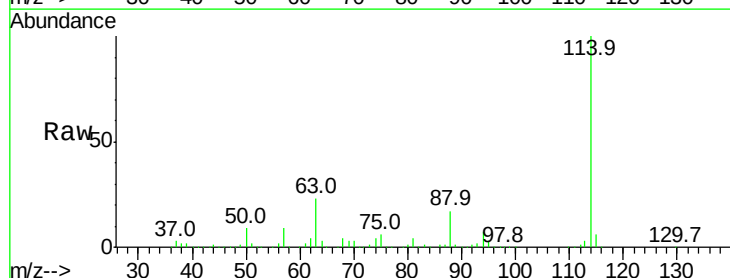
Tgt Ion:114 Resp: 2043495

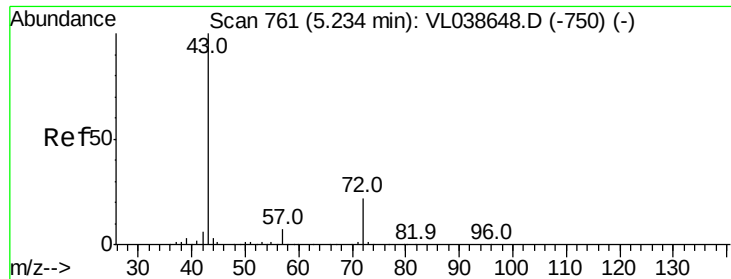
Ion Ratio Lower Upper

114 100

63 23.2 19.4 29.0

88 16.9 13.9 20.9





#34

2-Butanone

Concen: 8.12 ppbv

RT: 5.23 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11 C0P99DUP

Tgt Ion:

Ion Ratio

43 100

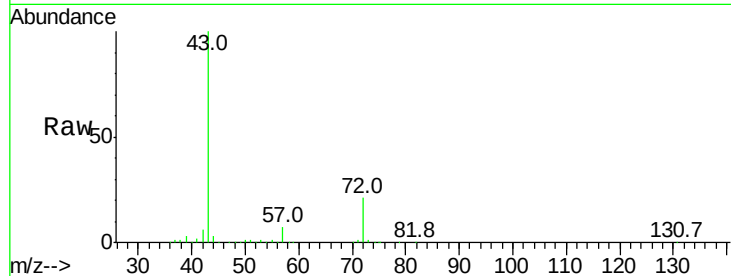
72 23.

Manual Integrations

APPROVED

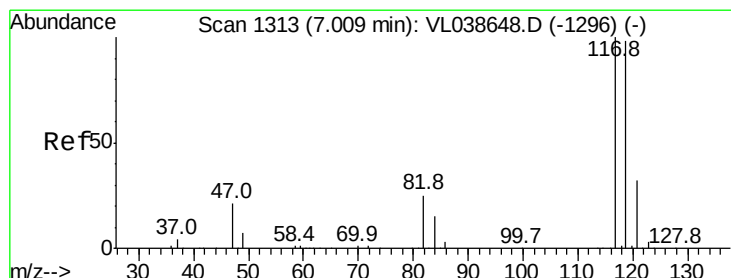
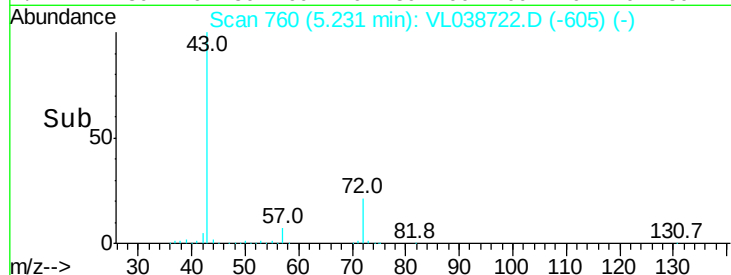
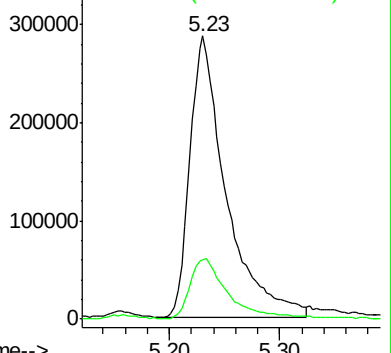
Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.06 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VL038722.D

Acq: 23 Mar 2022 19:11

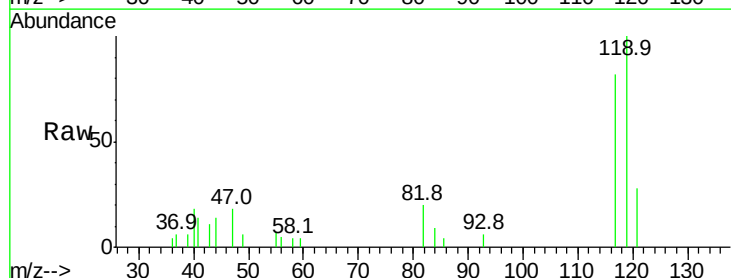
Tgt Ion:117 Resp: 7655

Ion Ratio Lower Upper

117 100

119 121.6 78.1 117.1#

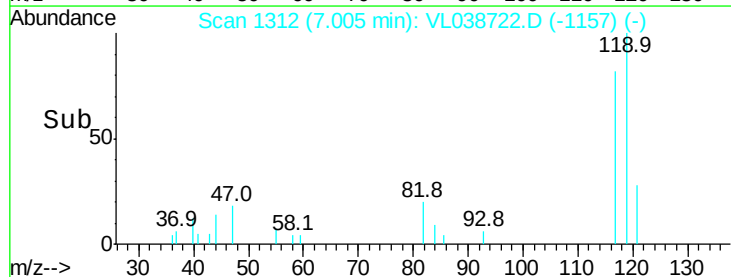
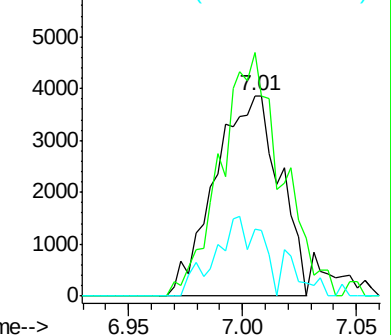
121 33.6 25.8 38.6

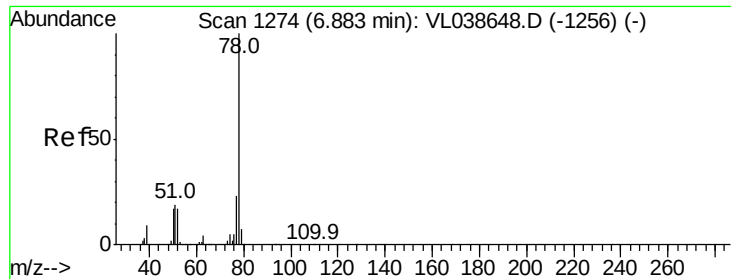


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.16 ppbv m

RT: 6.88 Instrument: MSVOA_1

Delta R.T. -0.01 min

Lab File: ClientSampleId :

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

78 100

77 22.

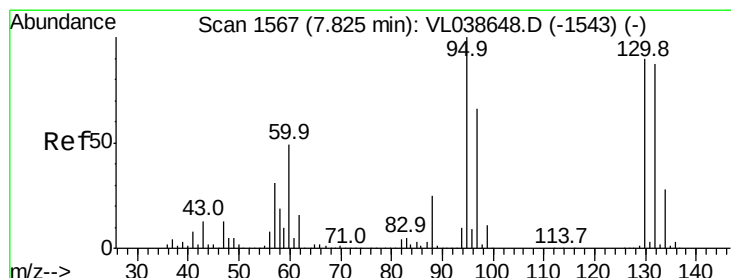
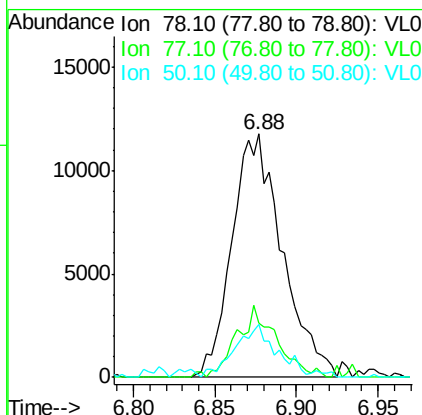
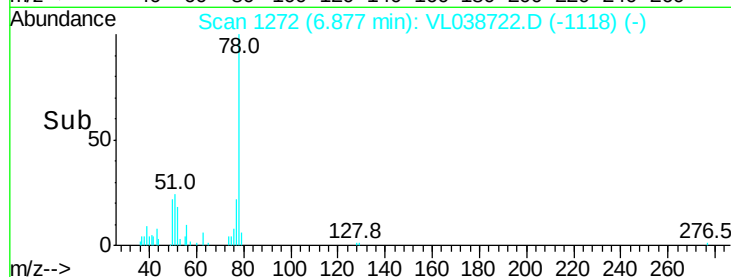
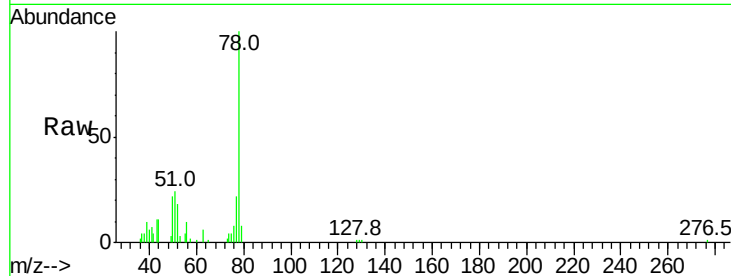
50 21.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#38

Trichloroethene

Concen: 0.36 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VL038722.D

Acq: 23 Mar 2022 19:11

Tgt Ion:130 Resp: 23997

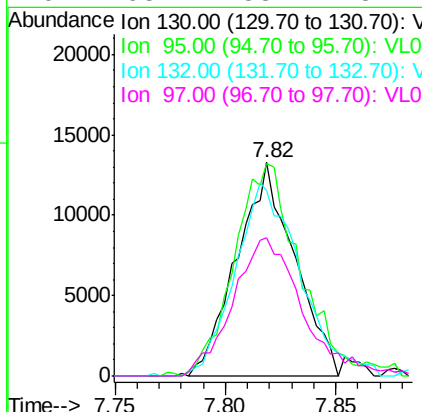
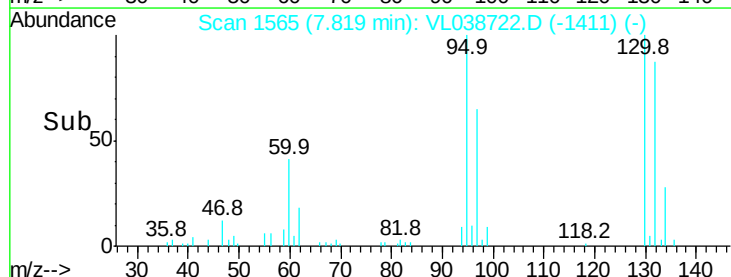
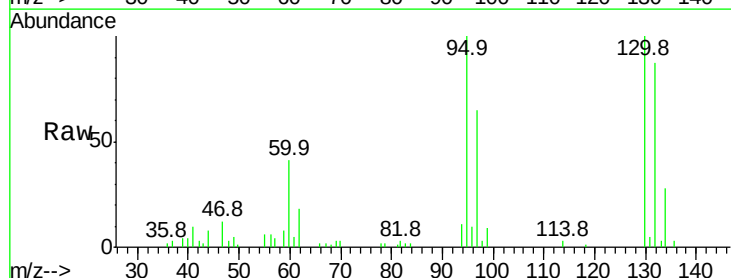
Ion Ratio Lower Upper

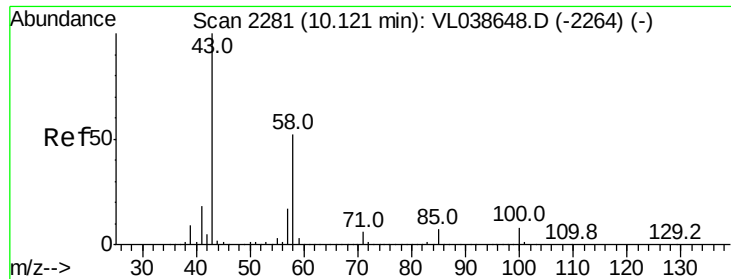
130 100

95 97.4 88.9 133.3

132 85.0 77.4 116.0

97 63.2 58.2 87.4





#51

2-Hexanone

Concen: 0.63 ppbv

RT: 10.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

43 100

58 48.

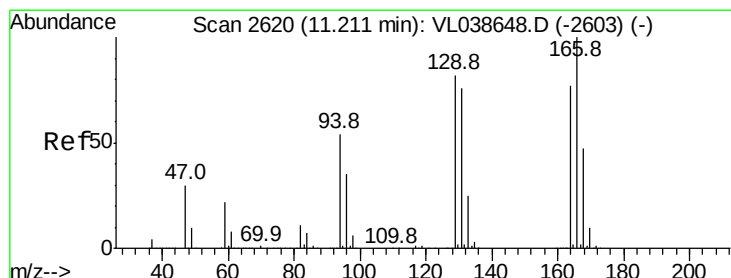
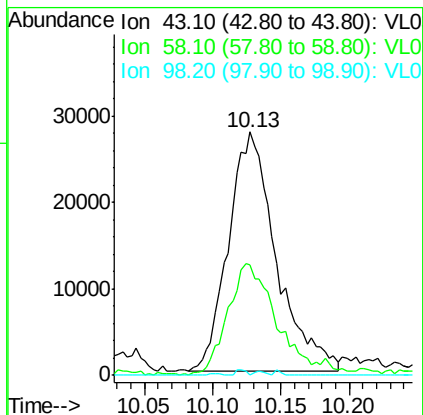
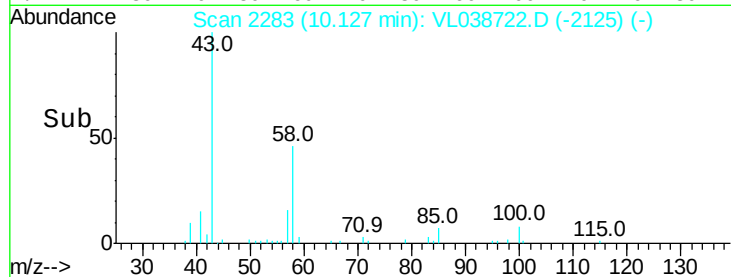
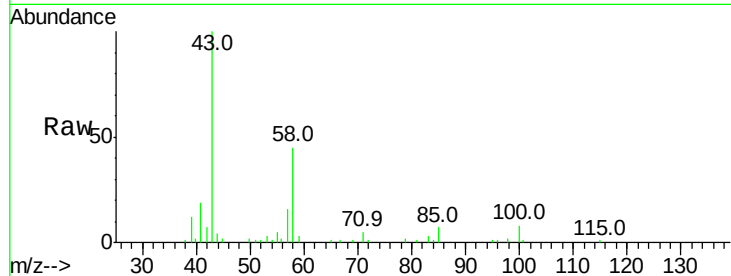
98 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#52

Tetrachloroethene

Concen: 112.13 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. 0.01 min

Lab File: VL038722.D

Acq: 23 Mar 2022 19:11

Tgt Ion:164 Resp: 6471769

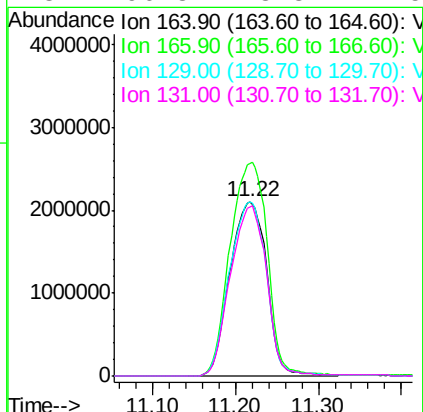
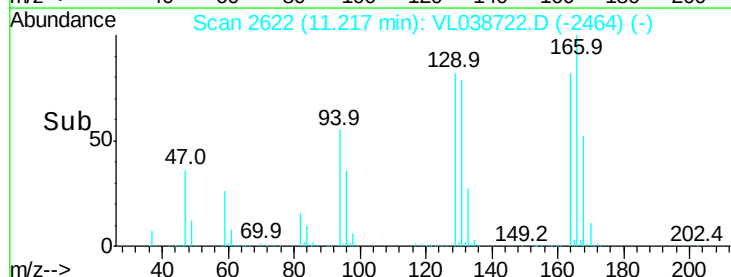
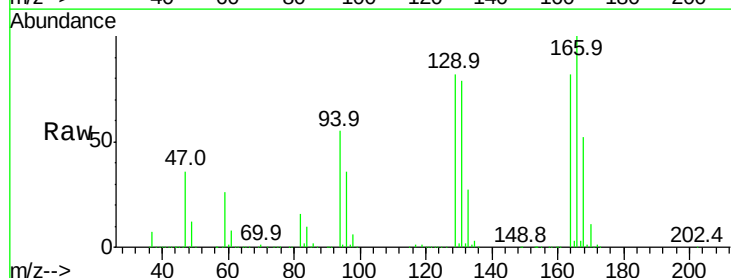
Ion Ratio Lower Upper

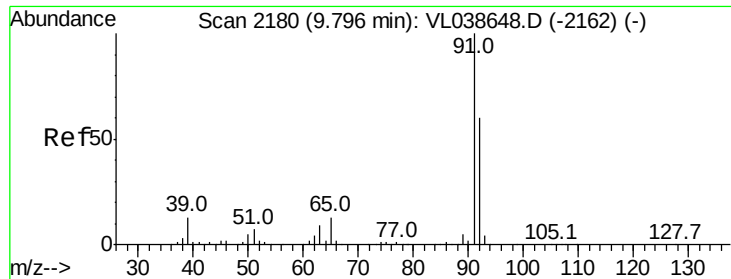
164 100

166 122.1 103.3 154.9

129 100.0 85.2 127.8

131 96.8 78.3 117.5





#53

Toluene

Concen: 0.40 ppbv

RT: 9.79 Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 23 Mar 2022 19:11

Tgt Ion:

Ion Ratio

91 100

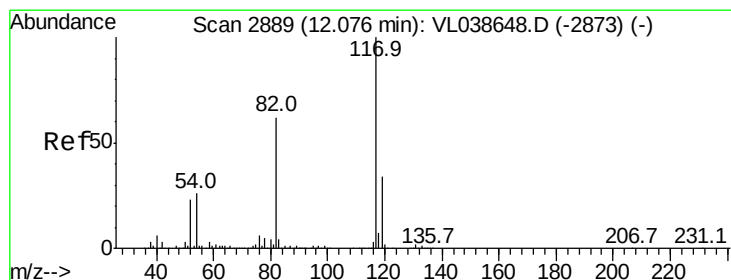
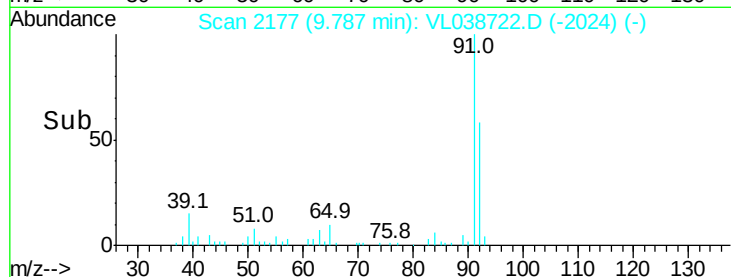
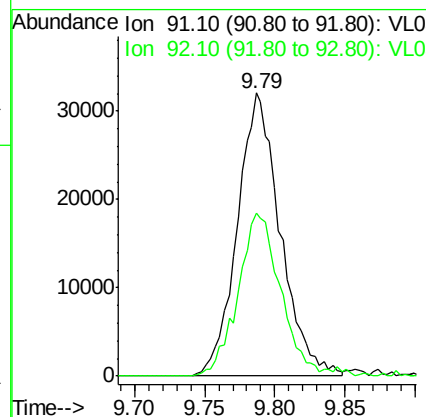
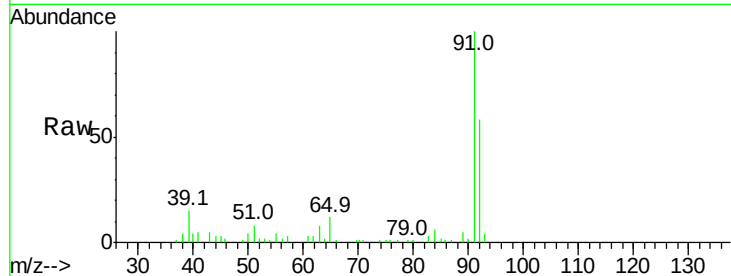
92 57.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL038722.D

Acq: 23 Mar 2022 19:11

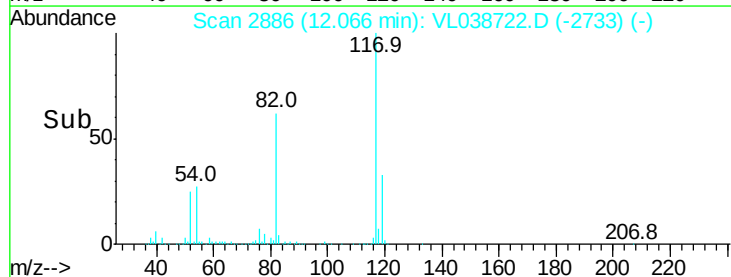
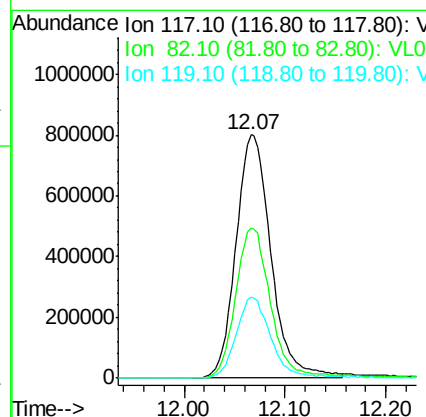
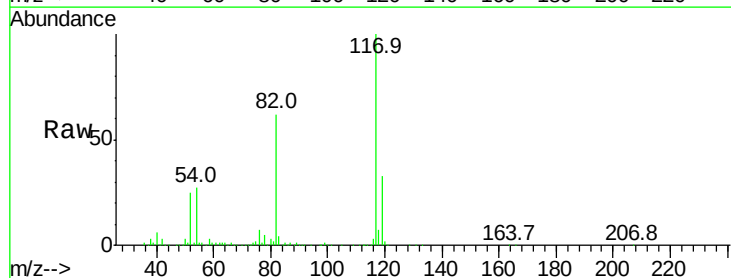
Tgt Ion:117 Resp: 1931673

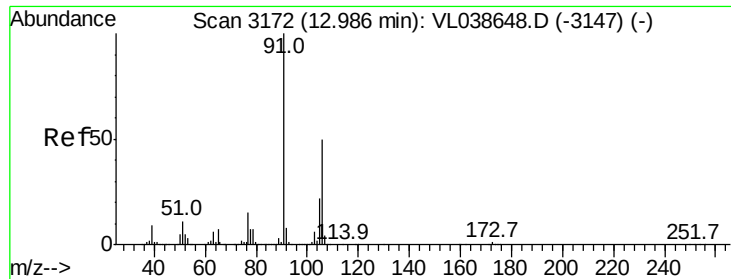
Ion Ratio Lower Upper

117 100

82 63.5 51.6 77.4

119 33.1 26.9 40.3



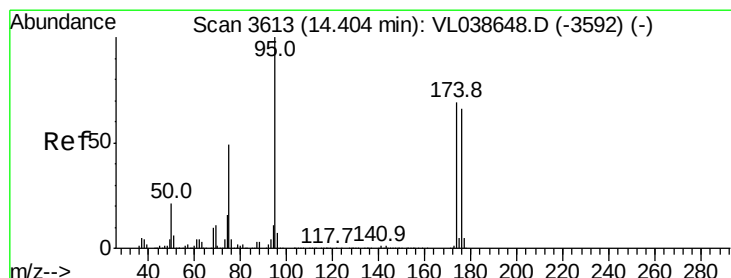
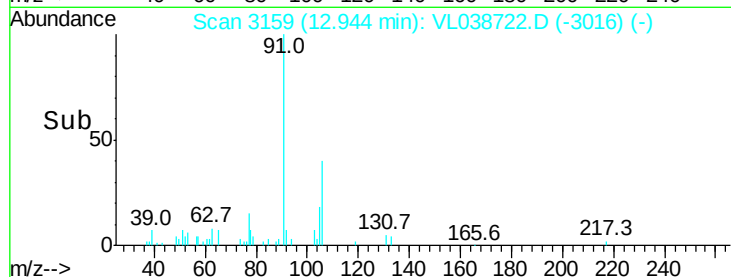
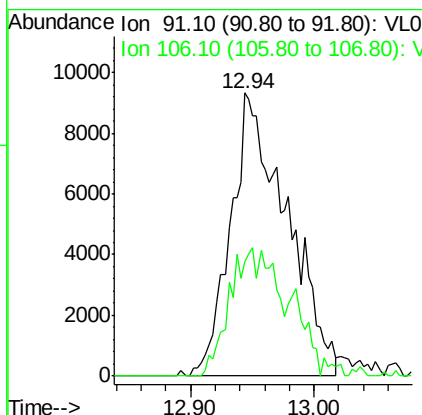
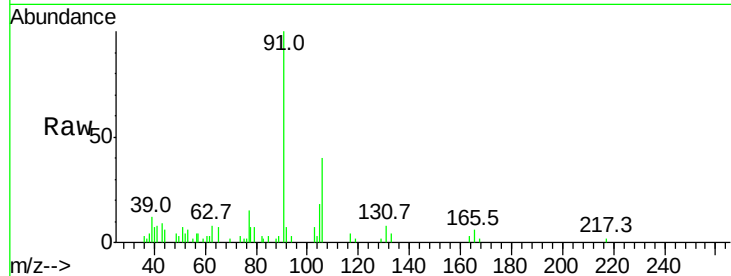


#59
m/p-Xylene
Concen: 0.15 ppbv m
RT: 12.94
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 19:11

Tgt Ion:
Ion Ratio
91 100
106 0.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.46 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.01 min
Lab File: VL038722.D
Acq: 23 Mar 2022 19:11

Tgt Ion: 95 Resp: 1400778
Ion Ratio Lower Upper
95 100
174 72.2 56.1 84.1
175 5.2 4.2 6.2

