

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038724.D
 Acq On : 23 Mar 2022 20:31
 Operator : SY/AP
 Sample : N2047-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PA1

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 05:52:37 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	747298	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1992083	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1796639	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1276485	9.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	26660	0.27	ppbv	96
3) Chlorodifluoromethane	2.99	51	27519	0.35	ppbv	95
4) Chloromethane	3.13	50	5323m	0.12	ppbv	
9) Propene	3.01	41	13343m	0.35	ppbv	
11) Trichlorofluoromethane	3.94	101	23780m	0.27	ppbv	
13) Ethanol	3.60	45	92363	21.97	ppbv	94
15) Acetone	3.84	43	175799	2.73	ppbv	95
17) tert-Butyl alcohol	4.29	59	13996m	0.25	ppbv	
19) Isopropyl Alcohol	3.96	45	24493	0.69	ppbv #	57
20) Methylene Chloride	4.33	84	95532	3.52	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	23819	0.75	ppbv	96
26) Hexane	5.67	57	65242	0.90	ppbv #	40
27) Carbon Disulfide	4.54	76	16054	0.23	ppbv #	87
29) Chloroform	5.74	83	16977	0.15	ppbv	84
31) cis-1,2-Dichloroethene	5.53	61	13055	0.19	ppbv	92
34) 2-Butanone	5.24	43	106207	1.35	ppbv	96
35) Carbon Tetrachloride	7.00	117	6428m	0.06	ppbv	
38) Trichloroethene	7.82	130	97343	1.51	ppbv	97
52) Tetrachloroethene	11.21	164	2299863	40.88	ppbv	96
53) Toluene	9.79	91	31991	0.19	ppbv	97
59) m/p-Xylene	12.95	91	24138m	0.13	ppbv	

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

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C0PA1

Manual Integrations
APPROVED

Quant Time: Mar 24 05:52:37 2022

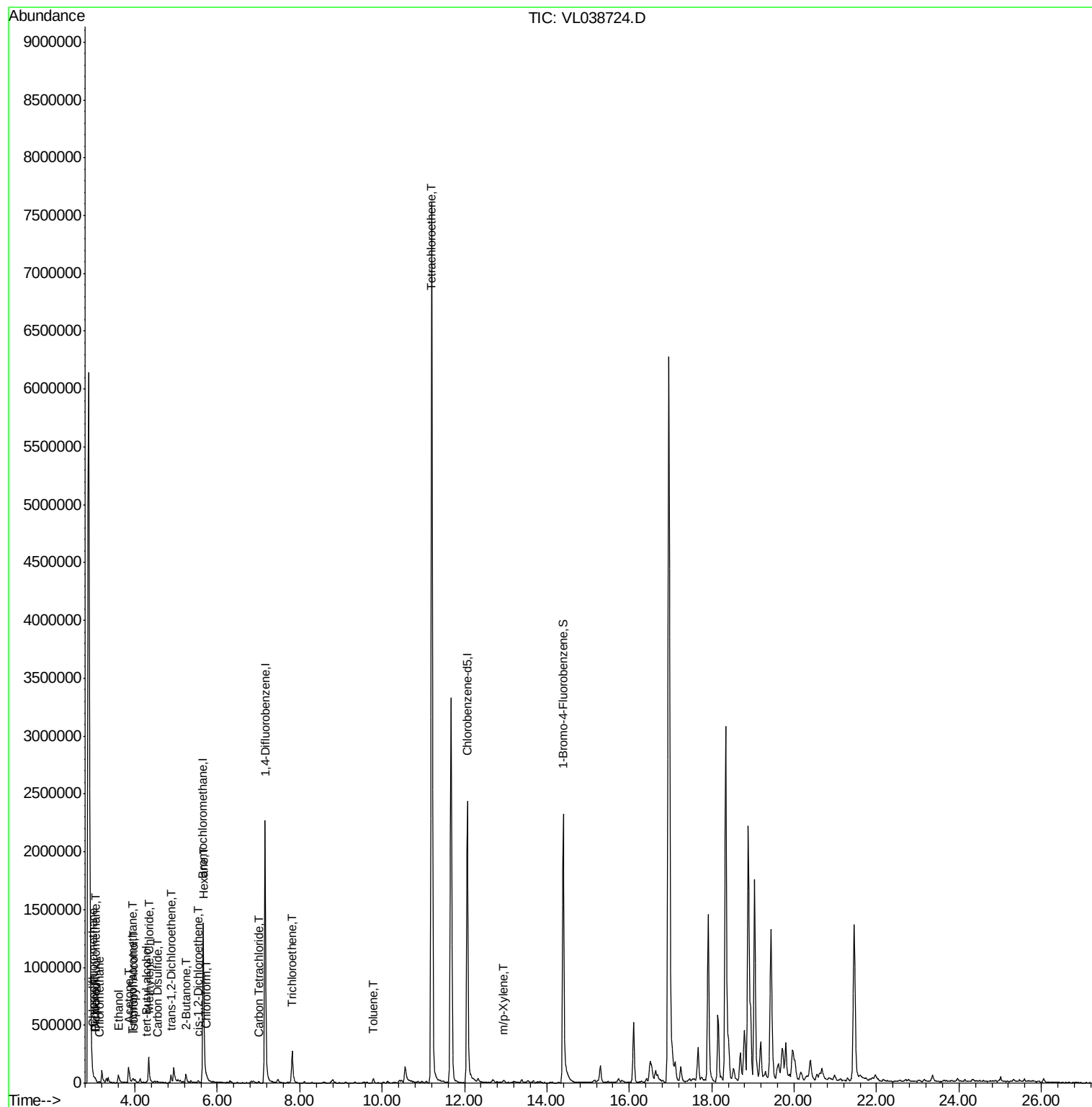
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122

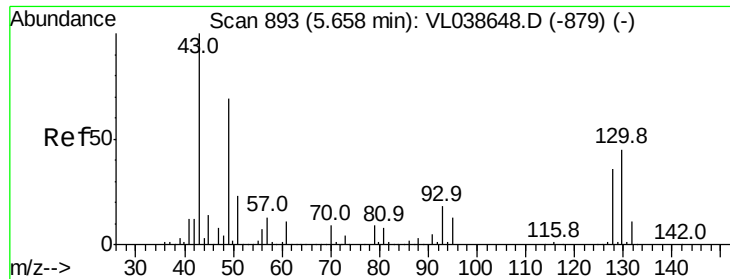
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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 20:31

Tgt Ion:

Ion Ratio

49 100

128 56.

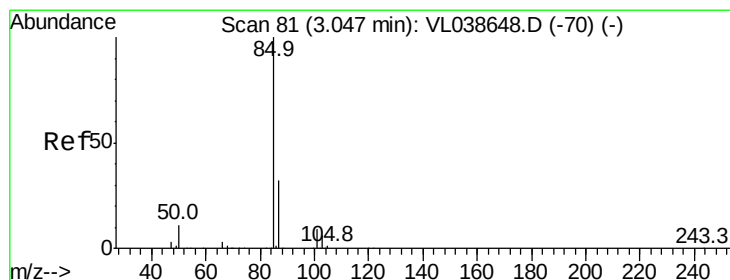
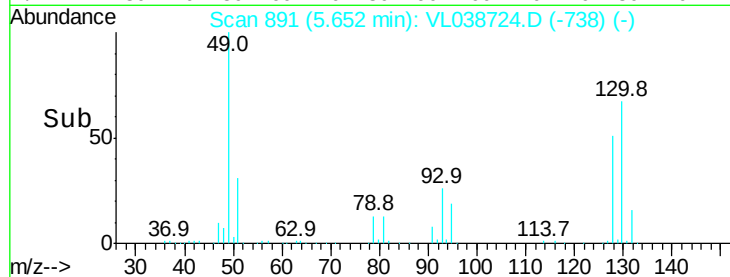
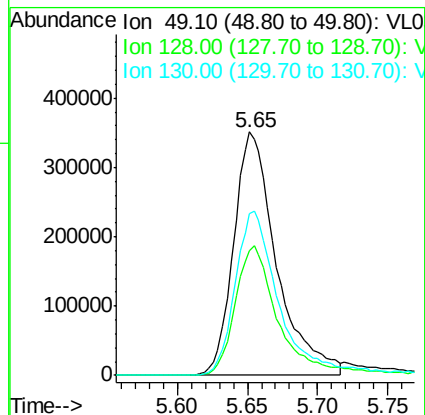
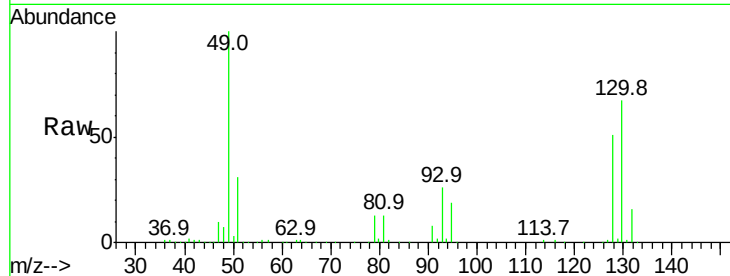
130 72.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#2

Dichlorodifluoromethane

Concen: 0.27 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL038724.D

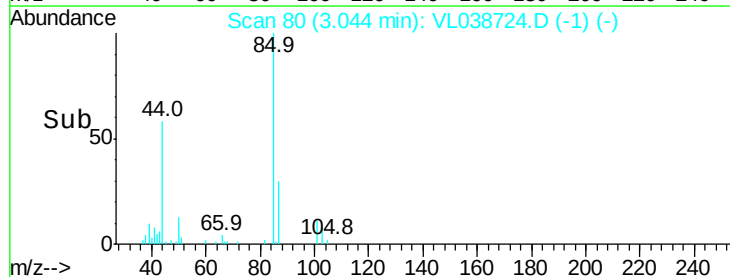
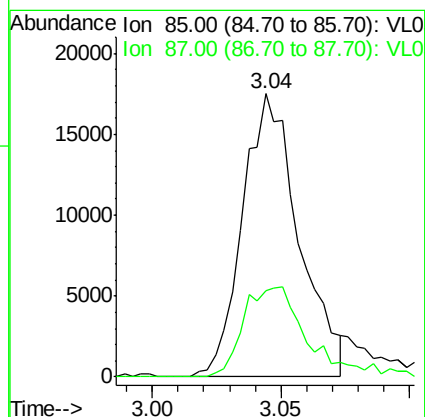
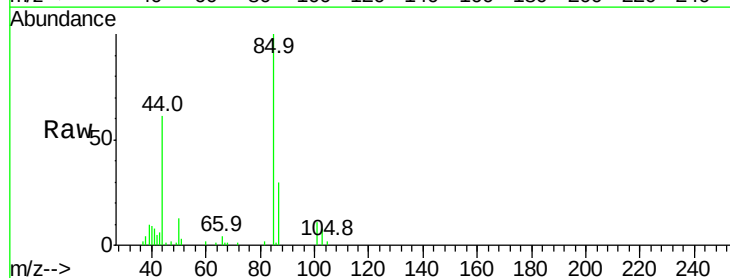
Acq: 23 Mar 2022 20:31

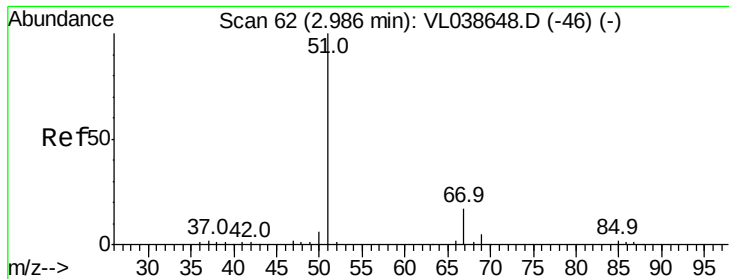
Tgt Ion: 85 Resp: 26660

Ion Ratio Lower Upper

85 100

87 30.4 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.35 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31

Tgt Ion:

Ion Ratio

51 100

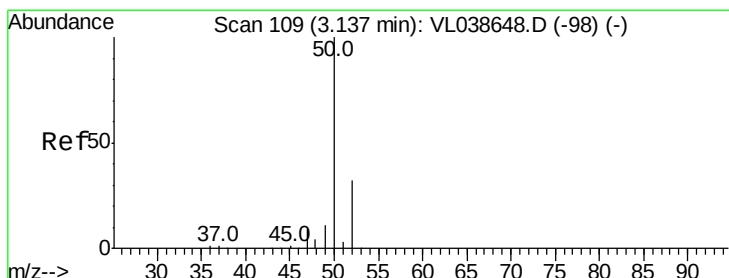
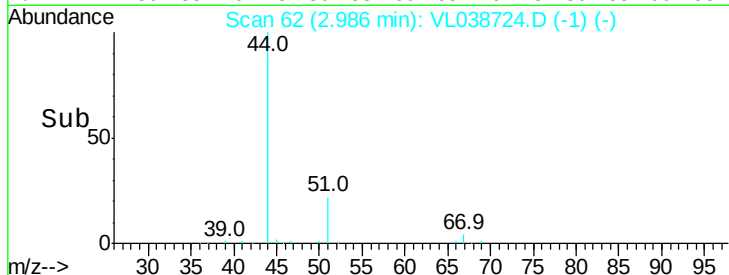
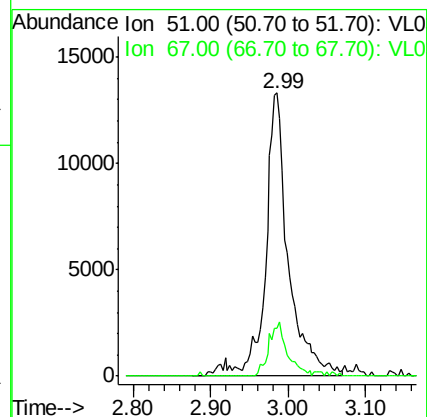
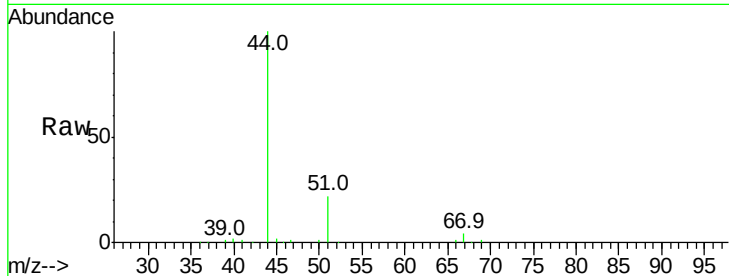
67 15.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#4

Chloromethane

Concen: 0.12 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL038724.D

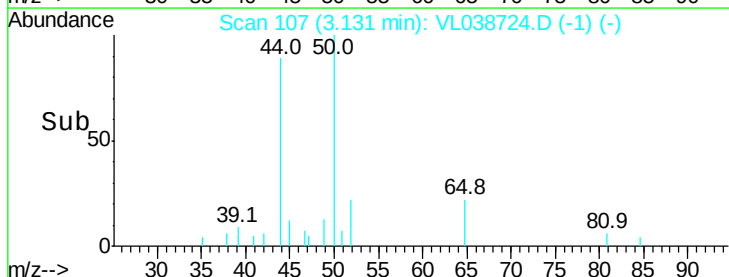
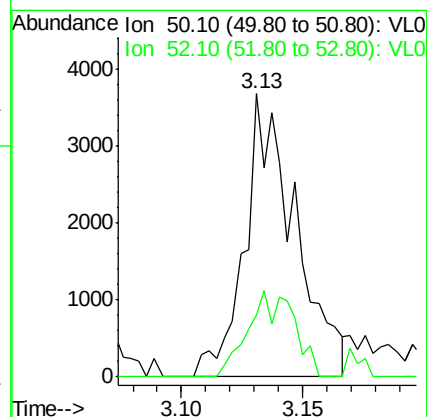
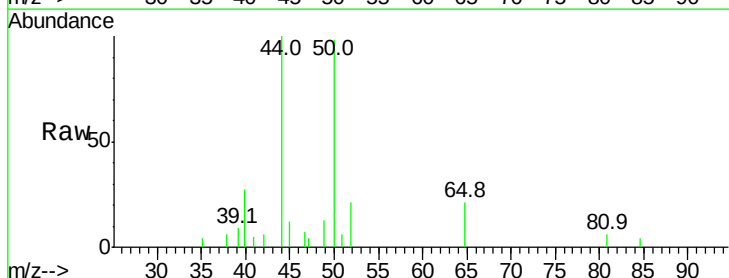
Acq: 23 Mar 2022 20:31

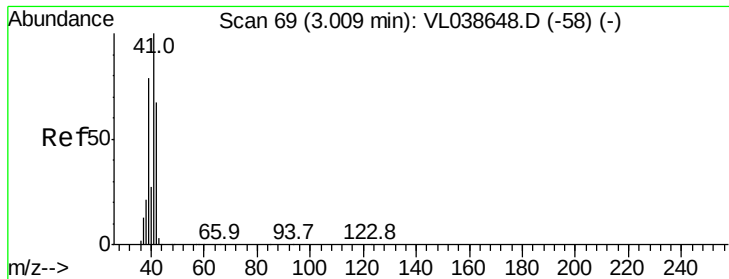
Tgt Ion: 50 Resp: 5323

Ion Ratio Lower Upper

50 100

52 21.8 25.5 38.3#





#9

Propene

Concen: 0.35 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31 COPA1

Tgt Ion:

Ion Ratio

41 100

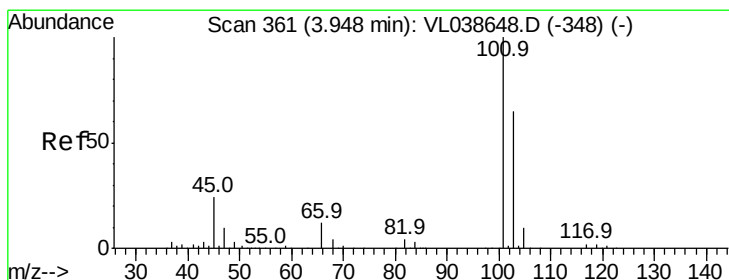
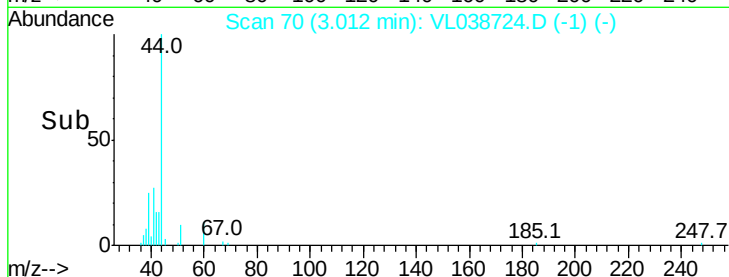
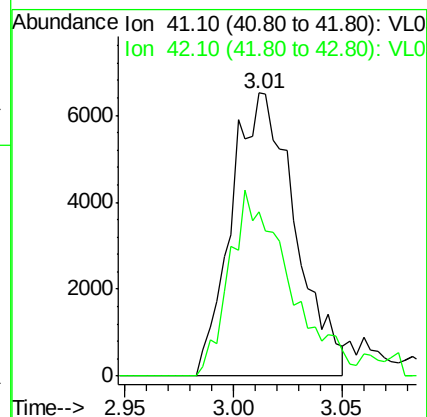
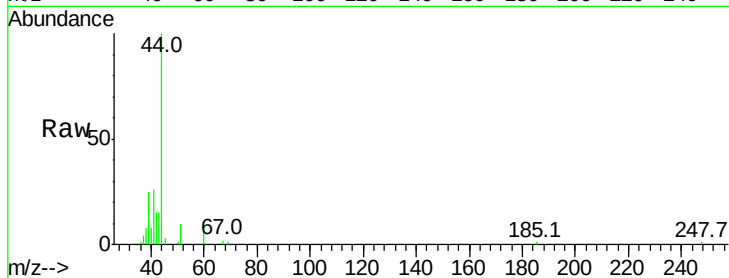
42 65.

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.27 ppbv m

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL038724.D

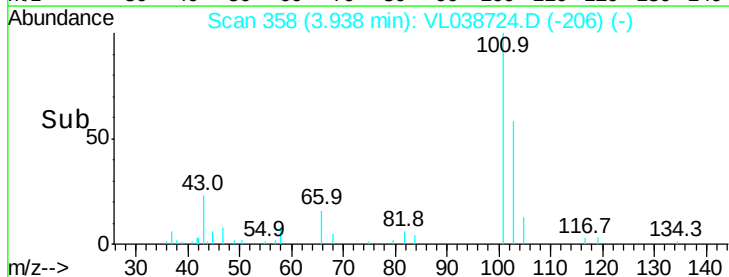
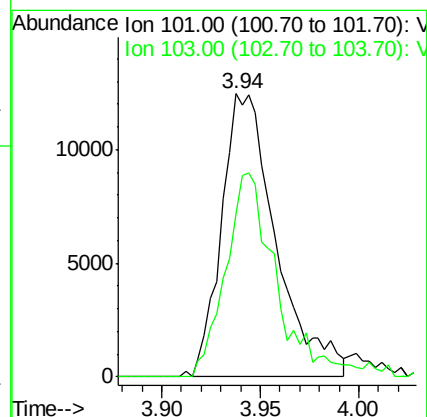
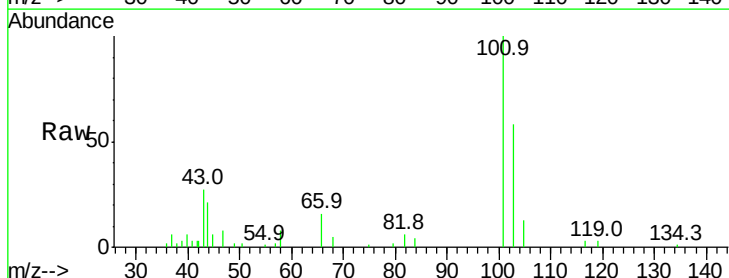
Acq: 23 Mar 2022 20:31

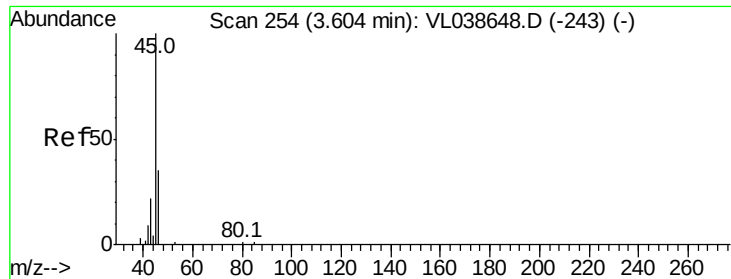
Tgt Ion:101 Resp: 23780

Ion Ratio Lower Upper

101 100

103 57.6 51.9 77.9





#13

Ethanol

Concen: 21.97 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31

Tgt Ion:

Ion Ratio

45 100

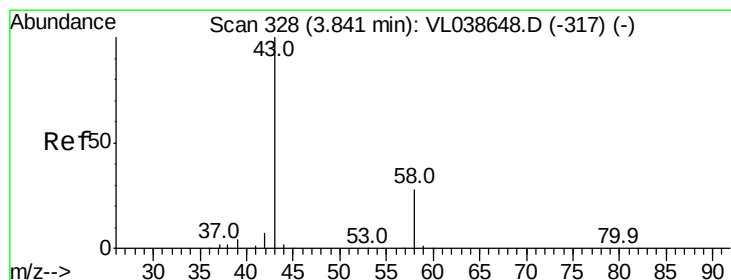
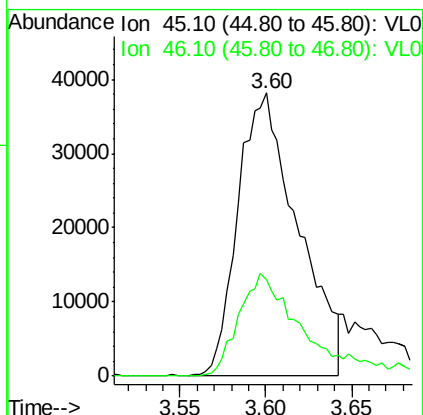
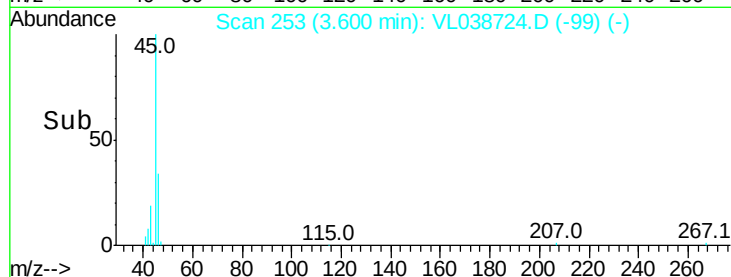
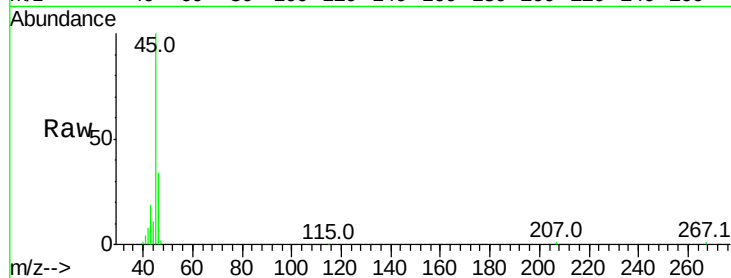
46 41.

Manual Integrations

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Supervised By :Mahesh Dadoda 03/28/2022



#15

Acetone

Concen: 2.73 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL038724.D

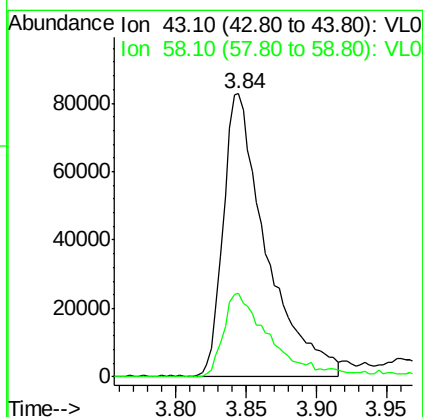
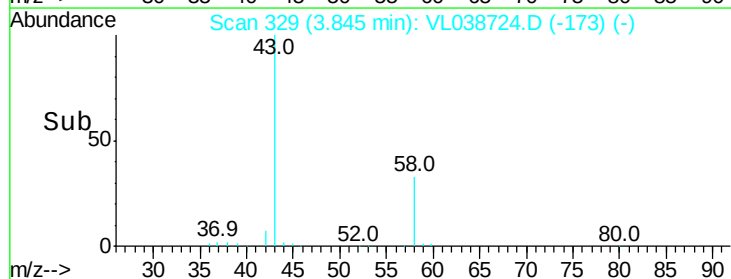
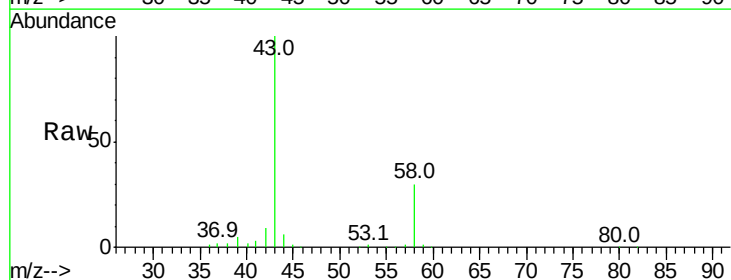
Acq: 23 Mar 2022 20:31

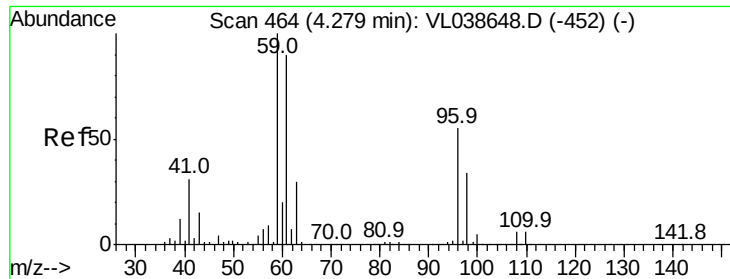
Tgt Ion: 43 Resp: 175799

Ion Ratio Lower Upper

43 100

58 31.8 23.3 34.9





#17

tert-Butyl alcohol

Concen: 0.25 ppbv m

RT: 4.29 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 20:31 COPA1

Tgt Ion:

Ion Ratio

59 100

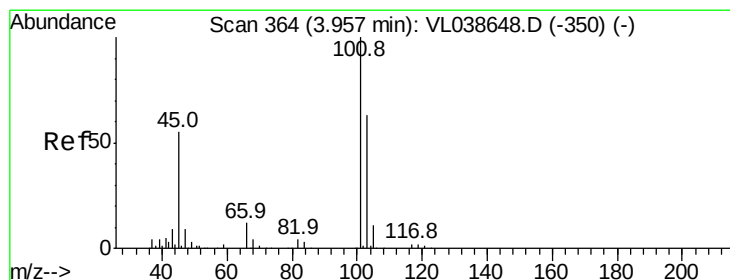
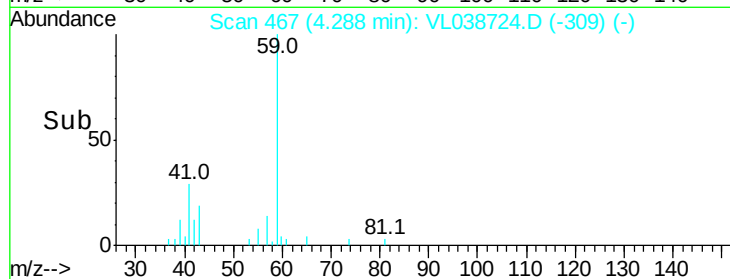
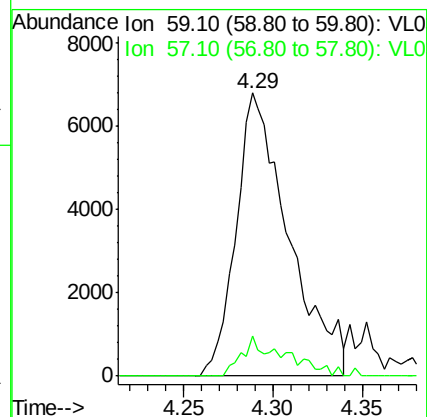
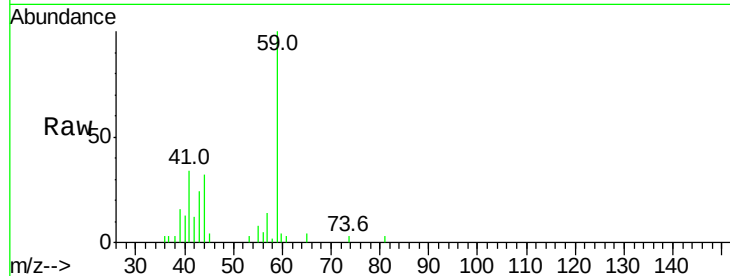
57 11.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#19

Isopropyl Alcohol

Concen: 0.69 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL038724.D

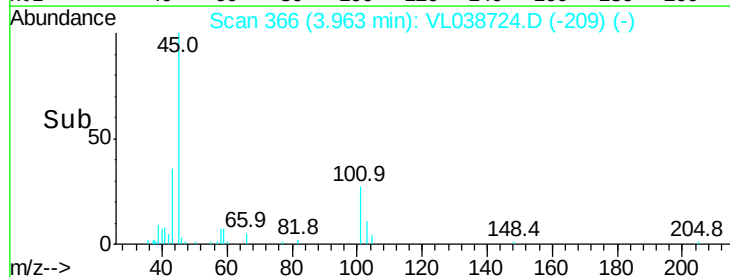
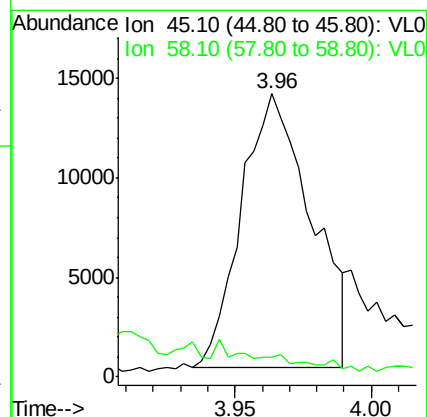
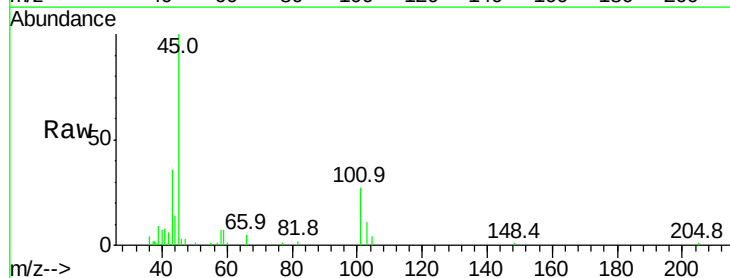
Acq: 23 Mar 2022 20:31

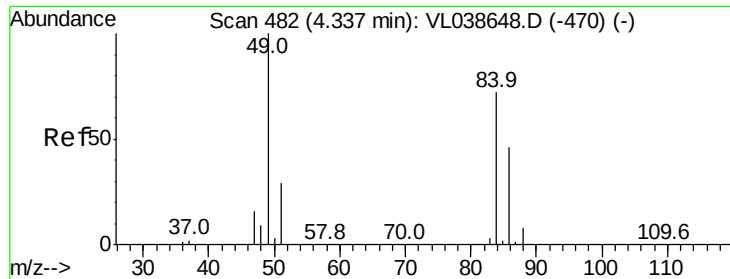
Tgt Ion: 45 Resp: 24493

Ion Ratio Lower Upper

45 100

58 17.3 2.3 3.5#



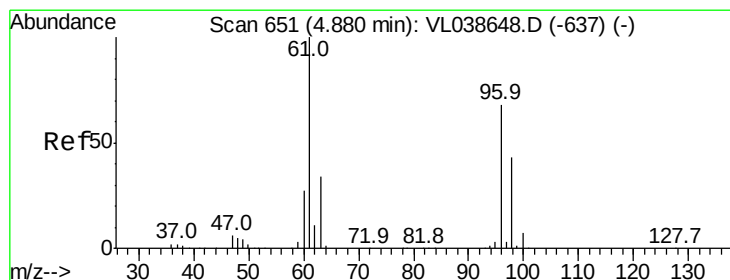
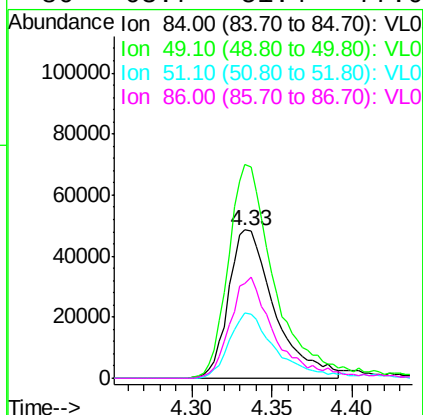
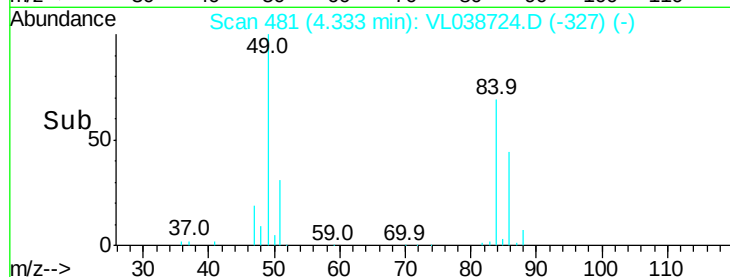
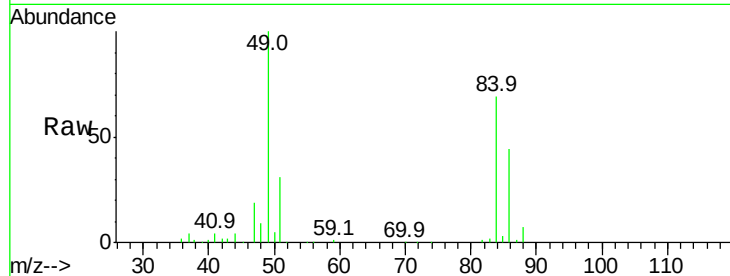


#20
Methylene Chloride
Concen: 3.52 ppbv
RT: 4.33
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 20:31

Tgt Ion:
Ion Ratio
84 100
49 143.
51 43.
86 63.7 51.4 77.0

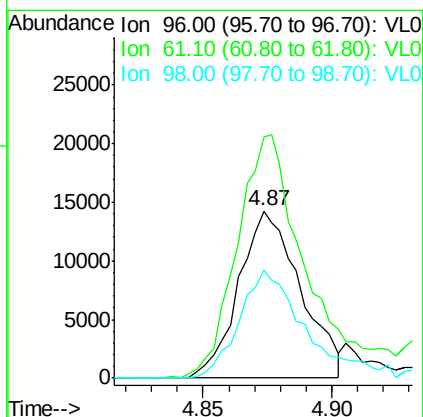
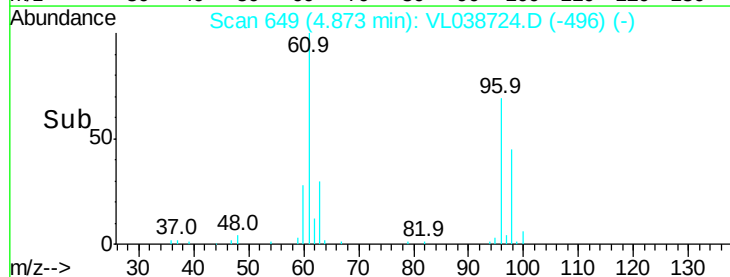
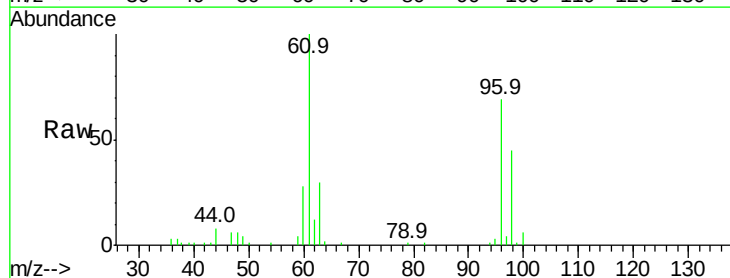
Manual Integrations
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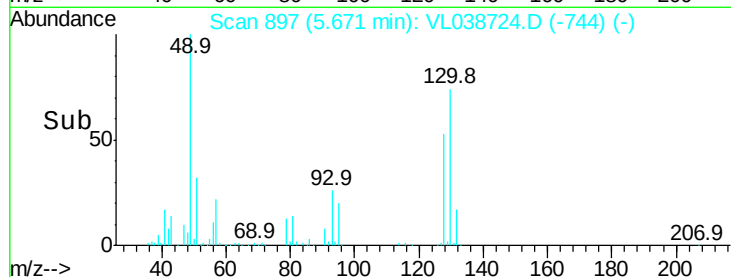
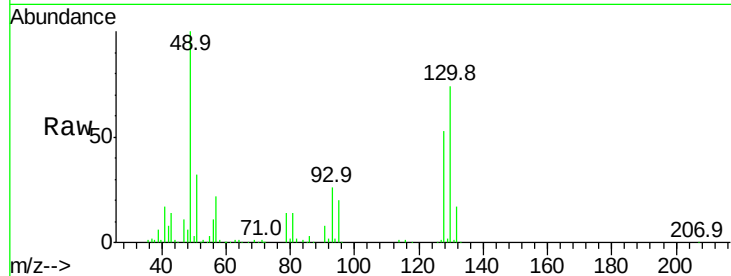
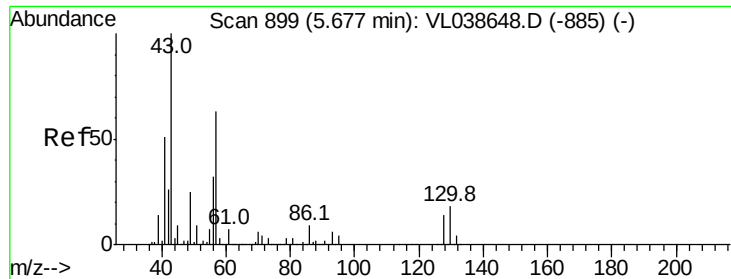
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#22
trans-1,2-Dichloroethene
Concen: 0.75 ppbv
RT: 4.87 min Scan# 649
Delta R.T. -0.01 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion: 96 Resp: 23819
Ion Ratio Lower Upper
96 100
61 141.2 118.3 177.5
98 64.4 51.3 76.9



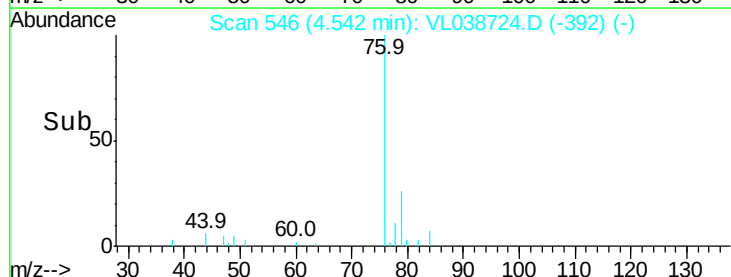
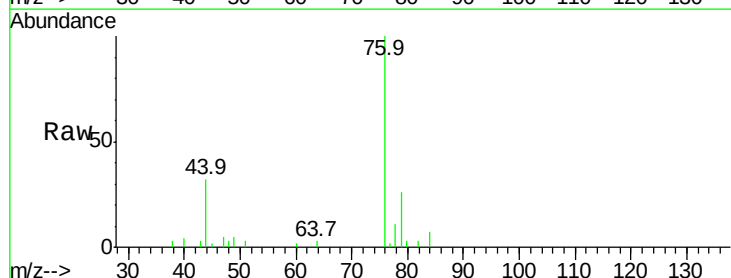
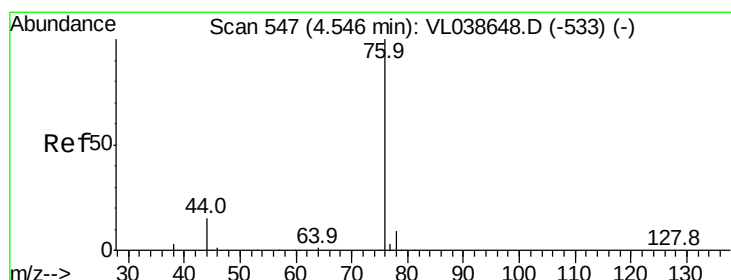
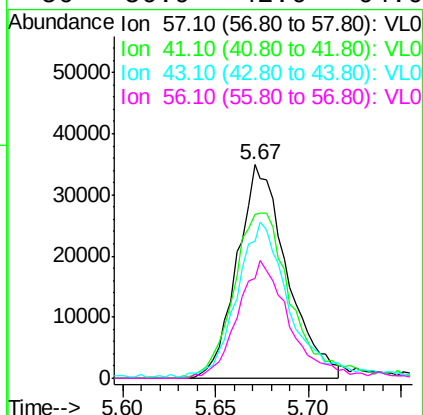


#26
Hexane
Concen: 0.90 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 20:31

Tgt Ion:
Ion Ratio
57 100
41 91.
43 78.
56 56.9 42.6 64.0

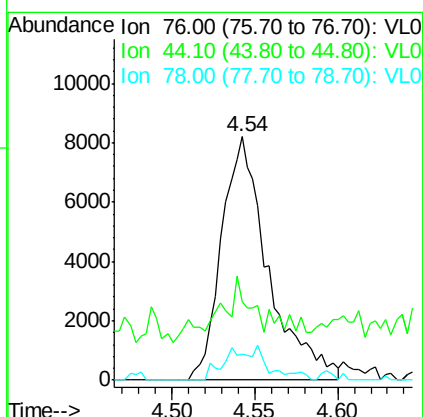
Manual Integrations
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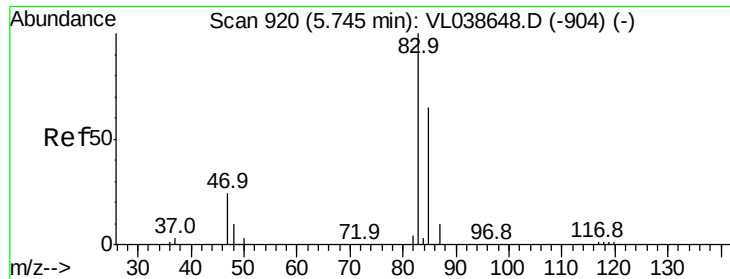
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#27
Carbon Disulfide
Concen: 0.23 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.00 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion: 76 Resp: 16054
Ion Ratio Lower Upper
76 100
44 22.2 12.4 18.6#
78 13.3 7.8 11.8#



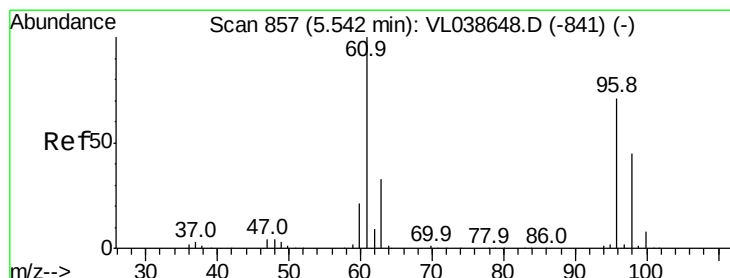
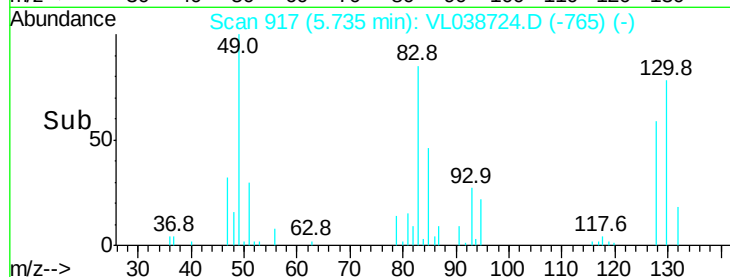
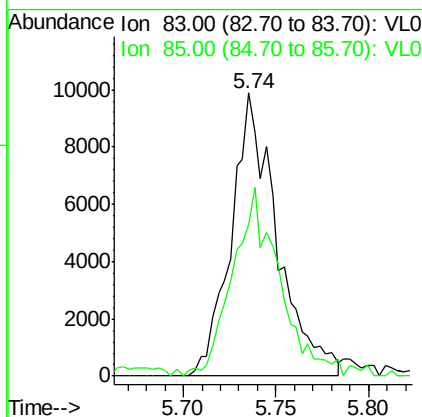
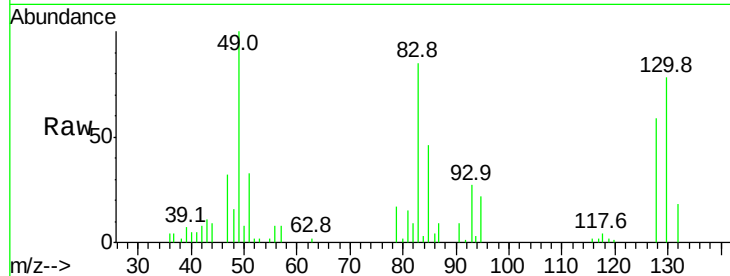


#29
Chloroform
Concen: 0.15 ppbv
RT: 5.74
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 20:31

Tgt Ion:
Ion Ratio
83 100
85 51.

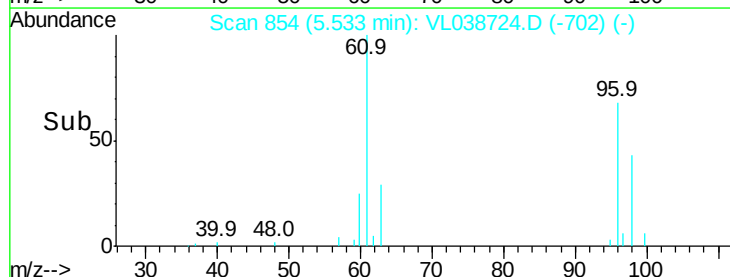
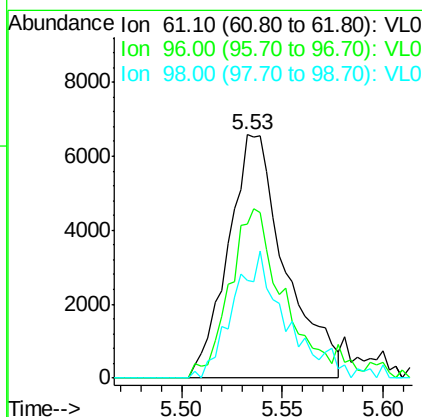
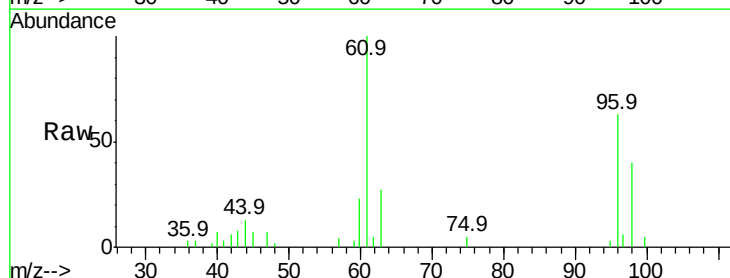
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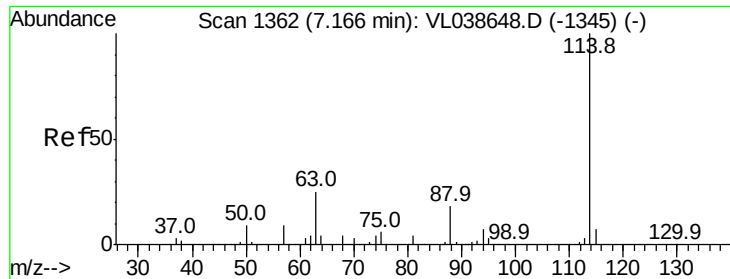
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#31
cis-1,2-Dichloroethene
Concen: 0.19 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion: 61 Resp: 13055
Ion Ratio Lower Upper
61 100
96 65.8 56.6 84.8
98 38.3 36.3 54.5



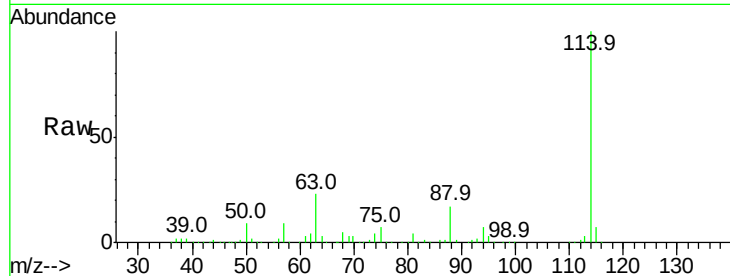


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.16
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 20:31

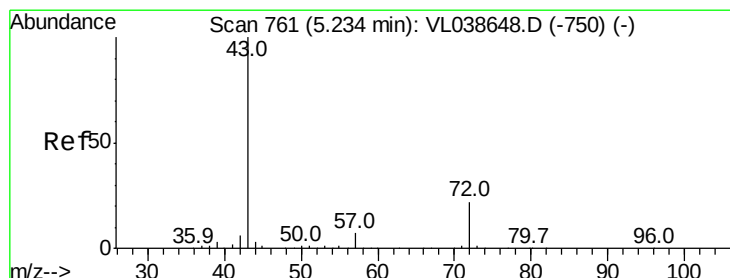
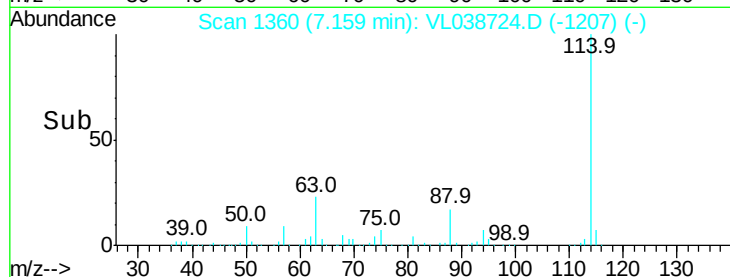
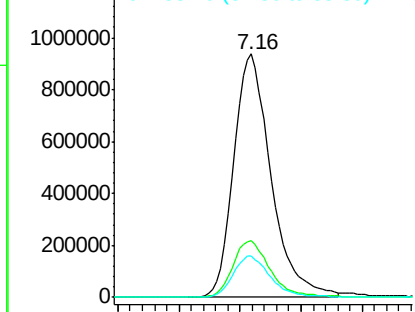
Tgt Ion: 1
 Ion Ratio
 114 100
 63 23.
 88 17.

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 Supervised By : Mahesh Dadoda 03/28/2022

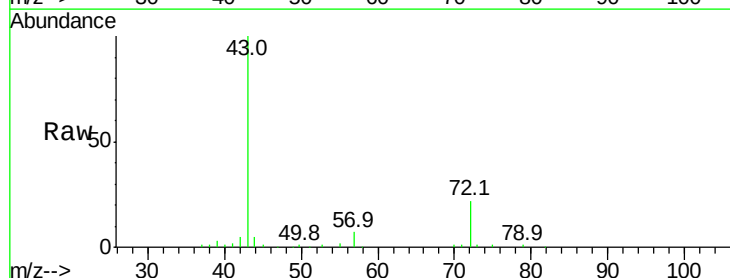


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

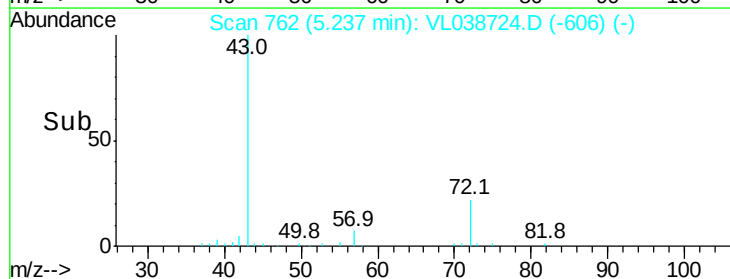
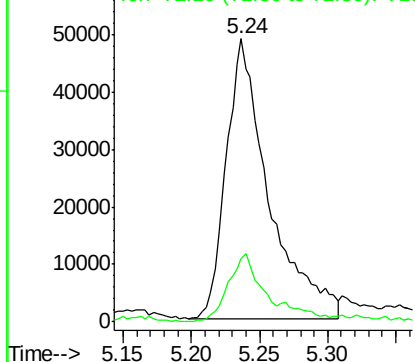


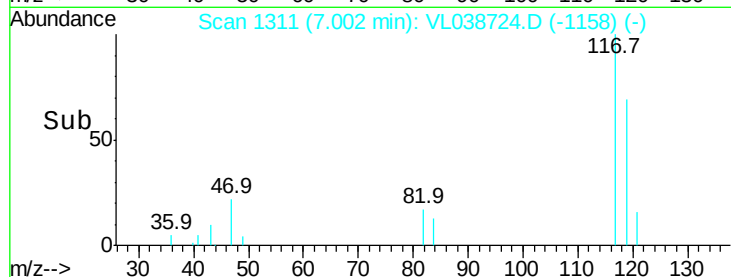
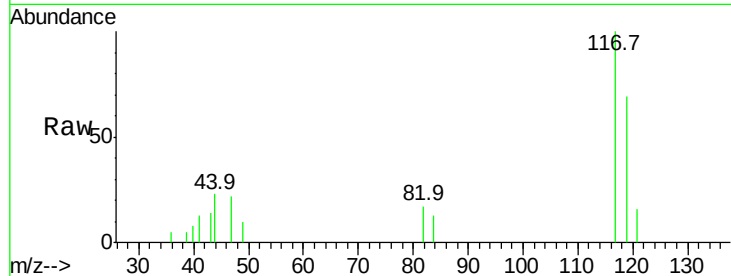
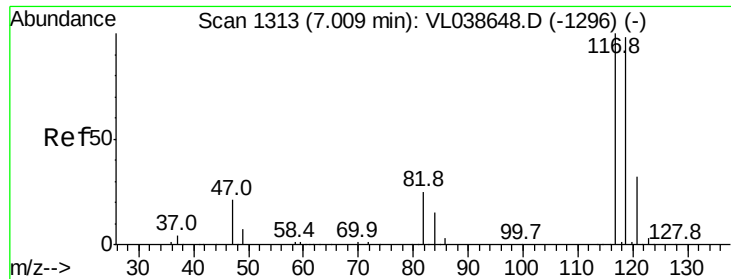
#34
 2-Butanone
 Concen: 1.35 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T.: 0.00 min
 Lab File: VL038724.D
 Acq: 23 Mar 2022 20:31

Tgt Ion: 43 Resp: 106207
 Ion Ratio Lower Upper
 43 100
 72 24.4 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0



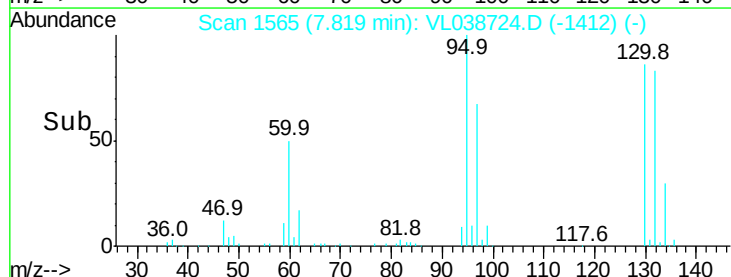
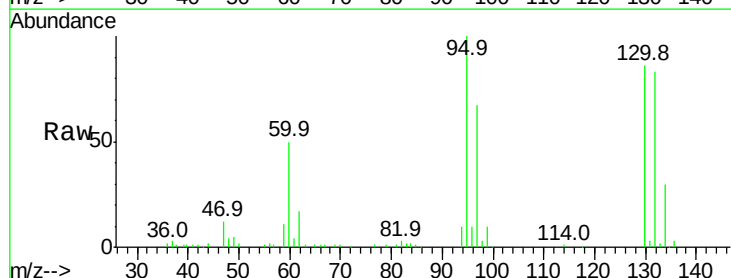
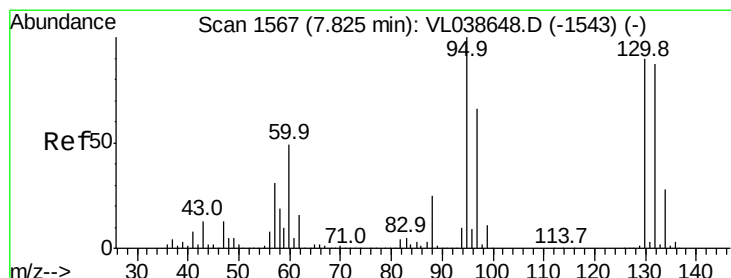
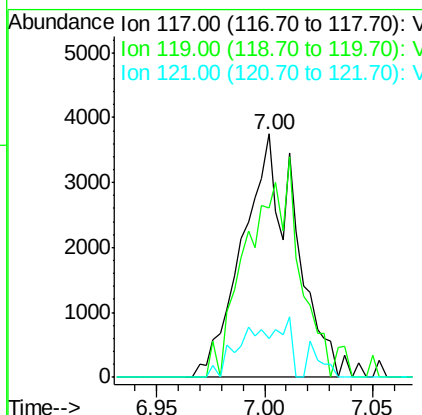


#35
Carbon Tetrachloride
Concen: 0.06 ppbv m
RT: 7.00
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 20:31

Tgt Ion:1
Ion Rati
117 100
119 69.
121 15.

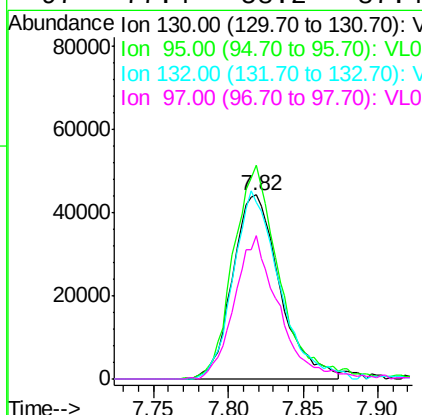
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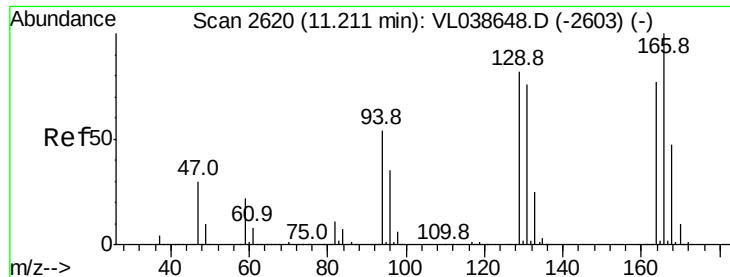
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#38
Trichloroethene
Concen: 1.51 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion:130 Resp: 97343
Ion Ratio Lower Upper
130 100
95 115.5 88.9 133.3
132 96.2 77.4 116.0
97 77.4 58.2 87.4





#52

Tetrachloroethene

Concen: 40.88 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 20:31

Tgt Ion:1

Ion Rati

164 100

166 123.

129 99.

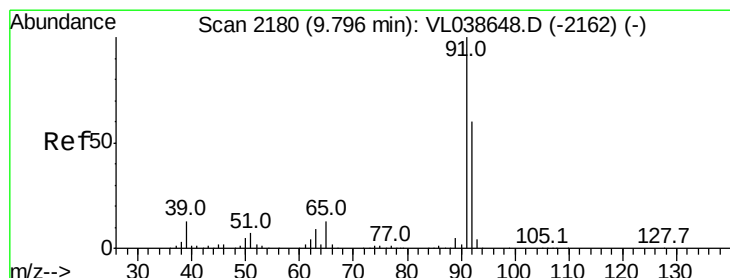
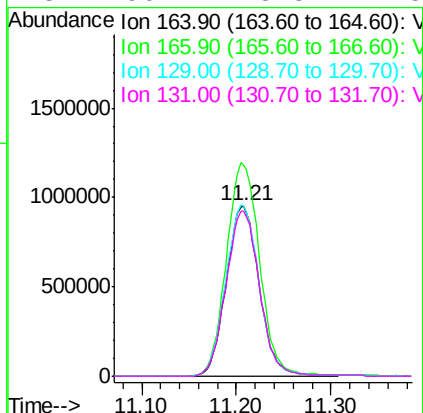
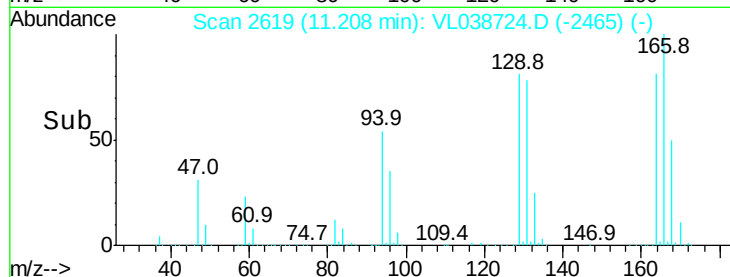
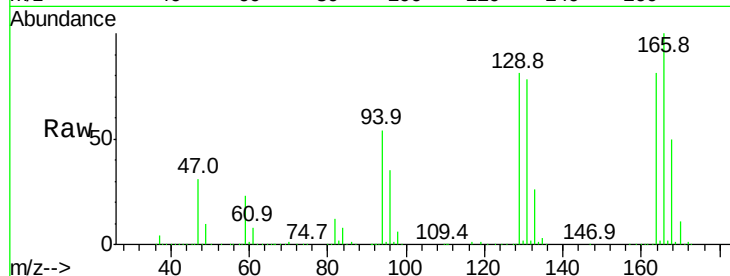
131 96.4 78.3 117.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#53

Toluene

Concen: 0.19 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL038724.D

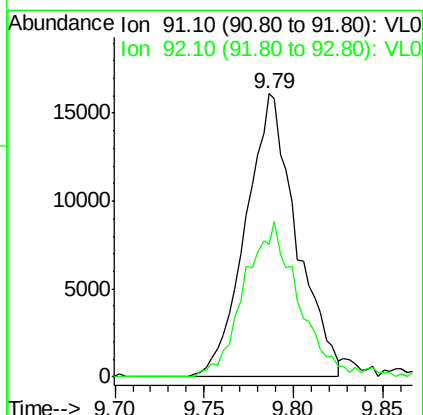
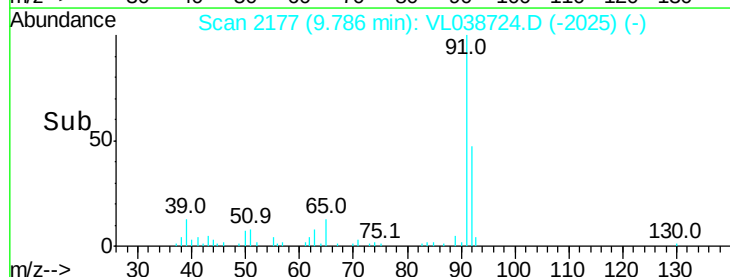
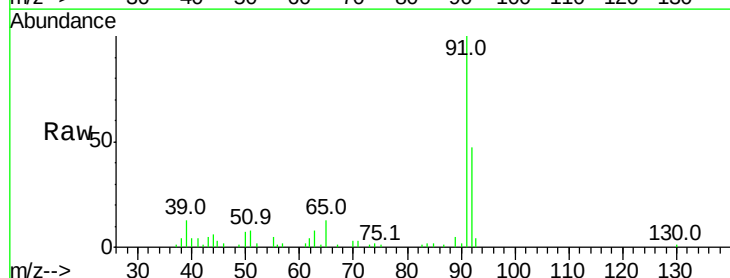
Acq: 23 Mar 2022 20:31

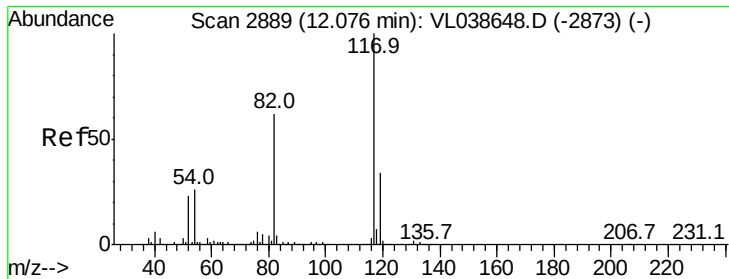
Tgt Ion: 91 Resp: 31991

Ion Ratio Lower Upper

91 100

92 58.8 48.7 73.1



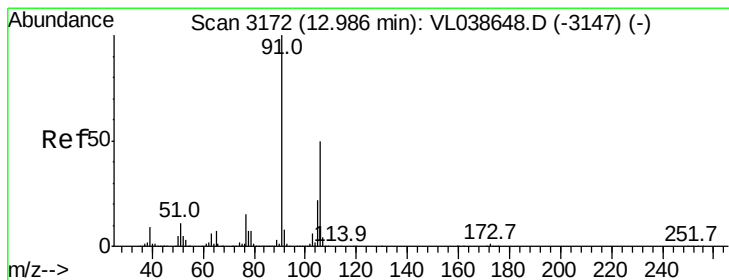
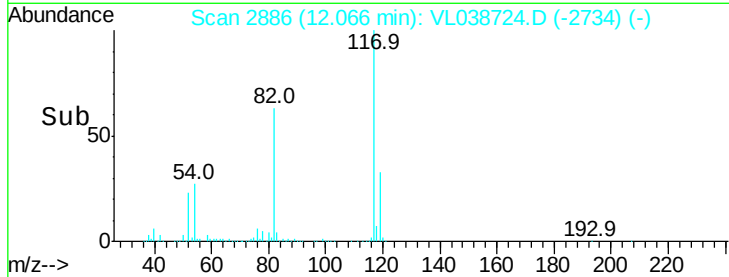
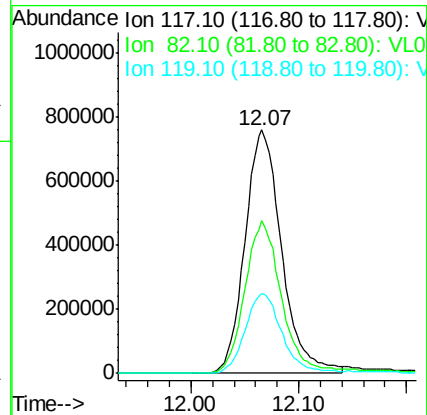
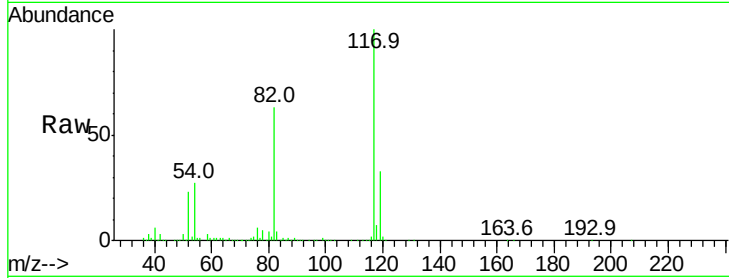


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.07
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COPA1
Acq: 23 Mar 2022 20:31

Tgt Ion: 1
Ion Ratio
117 100
82 65.
119 34.

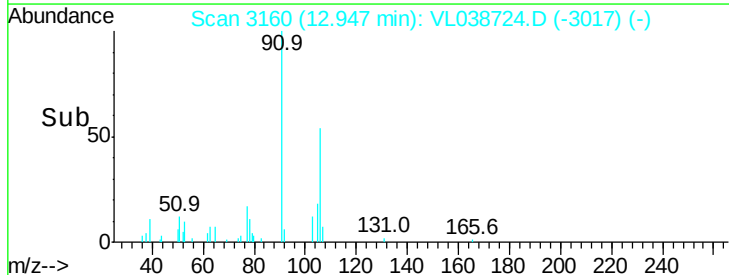
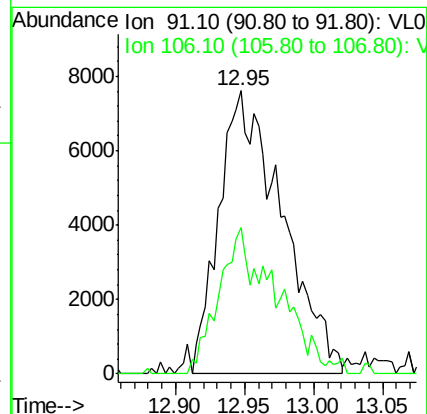
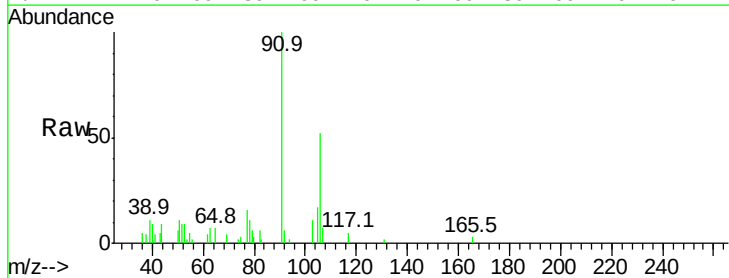
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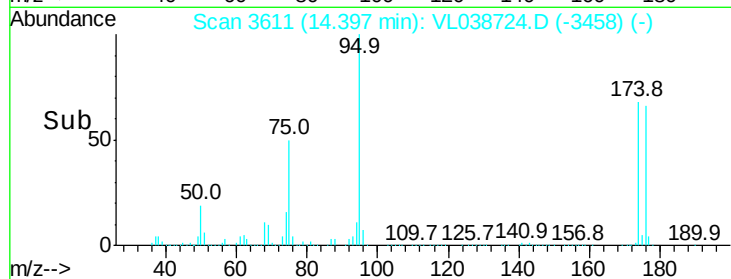
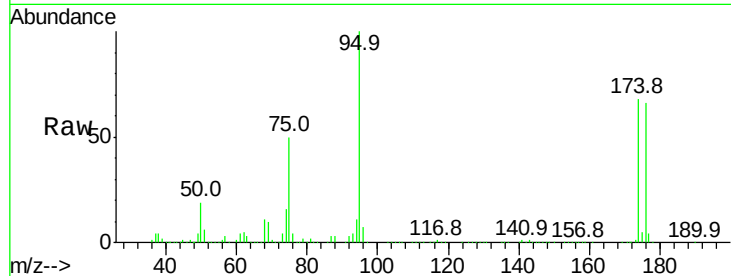
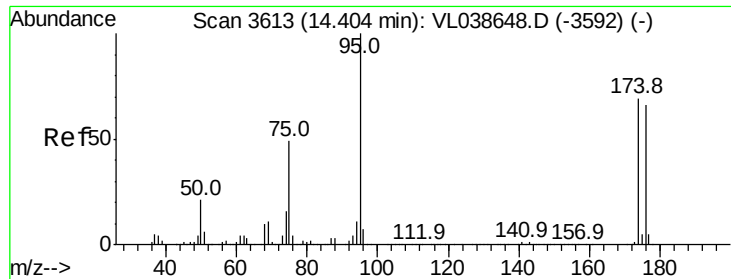
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#59
m/p-Xylene
Concen: 0.13 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.04 min
Lab File: VL038724.D
Acq: 23 Mar 2022 20:31

Tgt Ion: 91 Resp: 24138
Ion Ratio Lower Upper
91 100
106 0.0 37.2 55.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.27 ppbv

RT: 14.40

Delta R.T

Lab File: ClientSampleId :

Acq: 23 Mar 2022 20:31

Tgt Ion:

Ion Ratio

95 100

174 73.

175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022

