

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036865.D
 Acq On : 27 Apr 2021 19:51
 Operator : SY/AP
 Sample : M2172-08
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OFFSITE-DDC-INFLUENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/29/2021
 Supervised By : Mahesh Dadoda 04/29/2021

Quant Time: Apr 29 16:14:52 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1420568	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3350315	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	2947141	10.00	ppbv	0.01

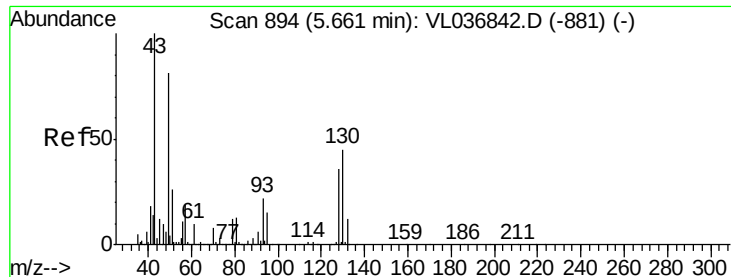
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2456359	10.38	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds

					Ovalue	
2) Dichlorodifluoromethane	3.05	85	52895m	0.236	ppbv	
3) Chlorodifluoromethane	2.99	51	102827	0.397	ppbv	# 89
4) Chloromethane	3.15	50	34100	0.401	ppbv	97
5) Vinyl Chloride	3.27	62	13558m	0.158	ppbv	
9) Propene	3.03	41	68500	0.869	ppbv	93
11) Trichlorofluoromethane	3.95	101	46263	0.232	ppbv	86
13) Ethanol	3.62	45	231047m	22.977	ppbv	
15) Acetone	3.86	43	509309m	3.804	ppbv	
18) 1,1-Dichloroethene	4.29	96	8481m	0.146	ppbv	
19) Isopropyl Alcohol	3.99	45	132837m	2.002	ppbv	
20) Methylene Chloride	4.35	84	1161481	18.140	ppbv	96
22) trans-1,2-Dichloroethene	4.90	96	11998m	0.206	ppbv	
26) Hexane	5.69	57	1151303	7.524	ppbv	# 47
29) Chloroform	5.76	83	131496	0.551	ppbv	87
30) Cyclohexane	7.17	84	40310m	0.332	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	1308541	9.527	ppbv	98
34) 2-Butanone	5.26	43	144049	0.982	ppbv	97
35) Carbon Tetrachloride	7.03	117	14333m	0.063	ppbv	
36) Benzene	6.89	78	66920	0.237	ppbv	# 91
38) Trichloroethene	7.84	130	7845m	0.078	ppbv	
41) Tetrahydrofuran	6.07	42	22784m	0.355	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	66124m	0.137	ppbv	
52) Tetrachloroethene	11.23	164	5853m	0.061	ppbv	
53) Toluene	9.82	91	296968	1.005	ppbv	99
59) m/p-Xylene	12.98	91	69800m	0.209	ppbv	
60) o-Xylene	13.70	91	31665m	0.098	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

49 100

128 47.

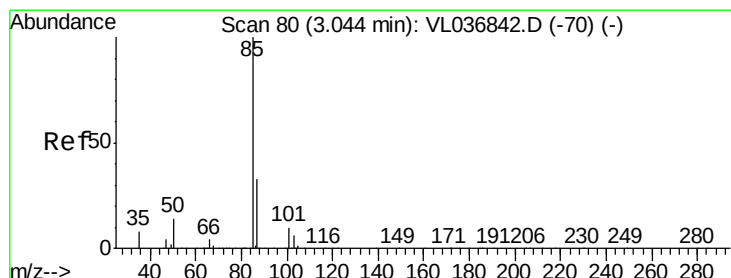
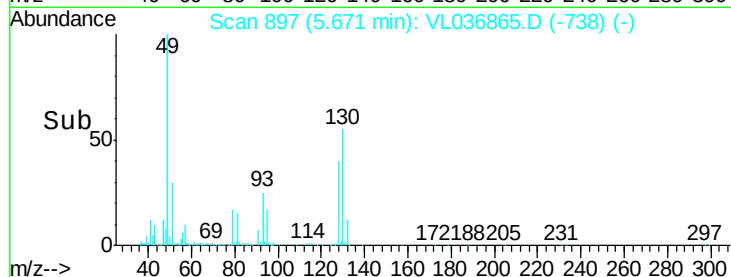
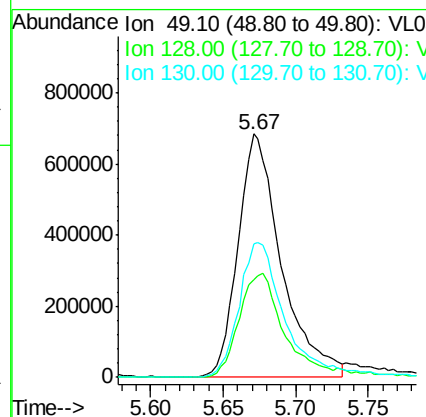
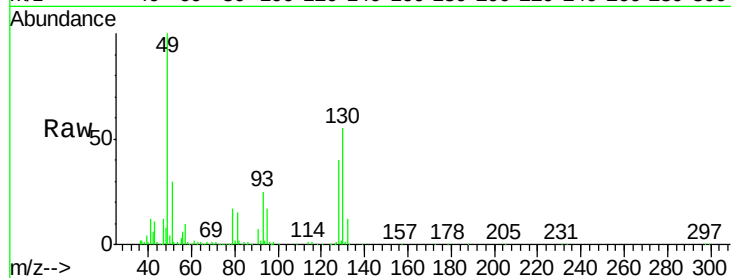
130 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#2

Dichlorodifluoromethane

Concen: 0.236 ppbv m

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL036865.D

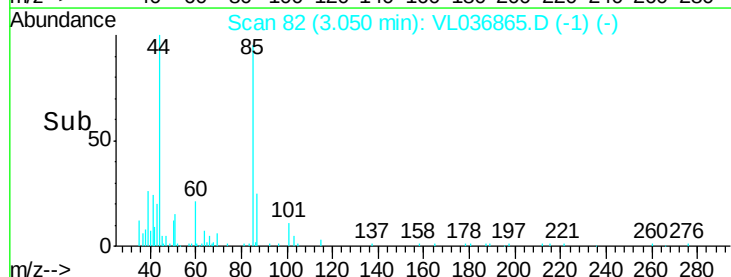
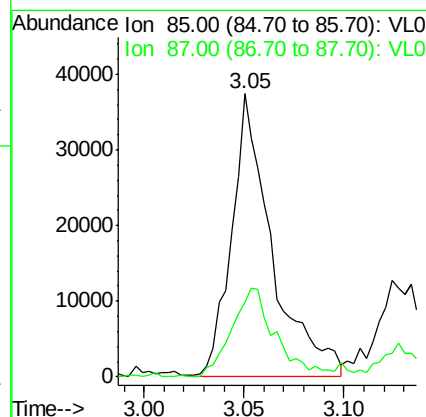
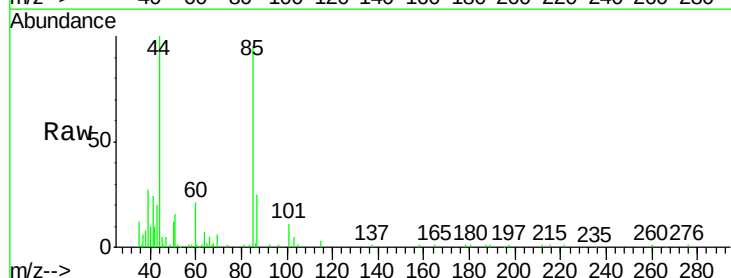
Acq: 27 Apr 2021 19:51

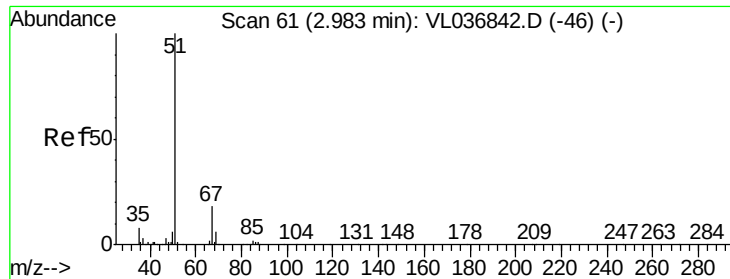
Tgt Ion: 85 Resp: 52895

Ion Ratio Lower Upper

85 100

87 26.2 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.397 ppbv

RT: 2.99 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: OFFSITE-DDC-INFLUENT

Acq: 27 Apr 2021 19:51

Tot Ion:

Ion Ratio

51 100

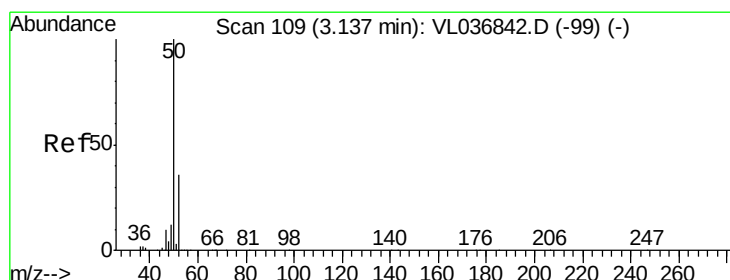
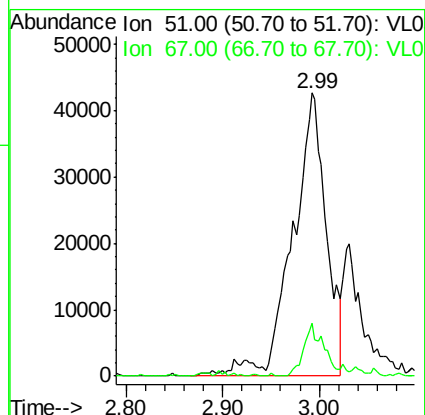
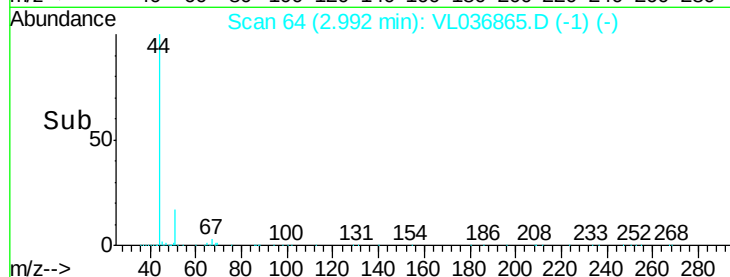
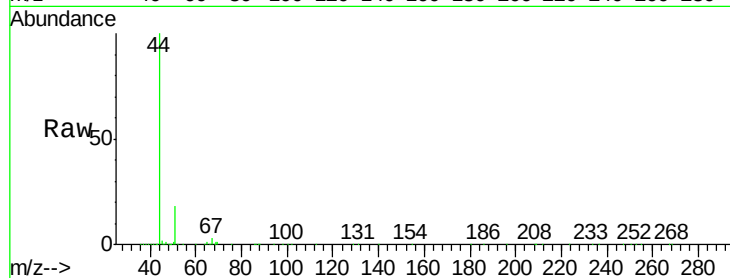
67 13.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#4

Chloromethane

Concen: 0.401 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036865.D

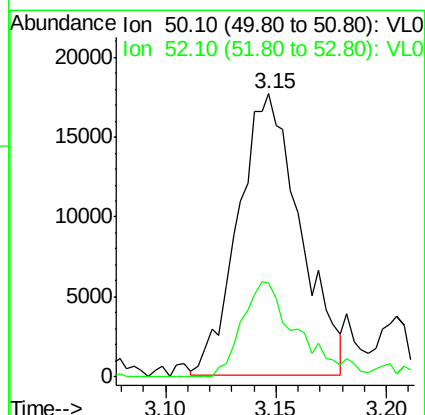
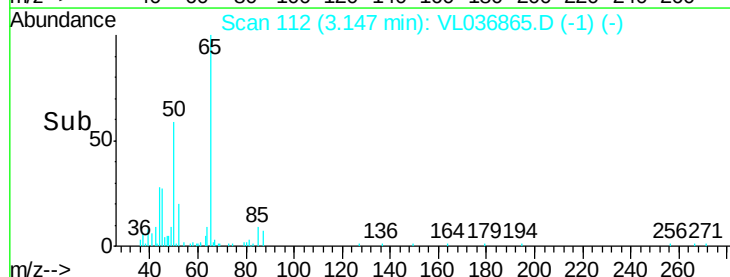
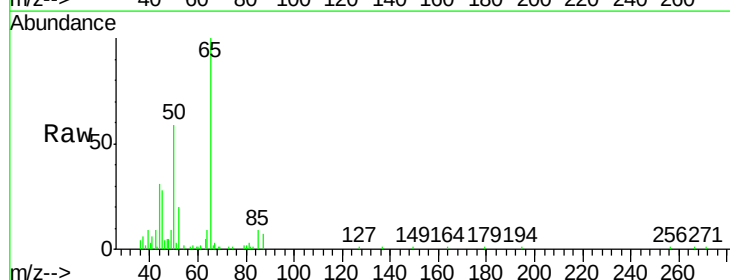
Acq: 27 Apr 2021 19:51

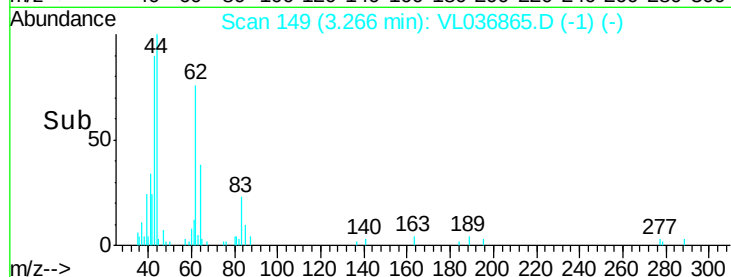
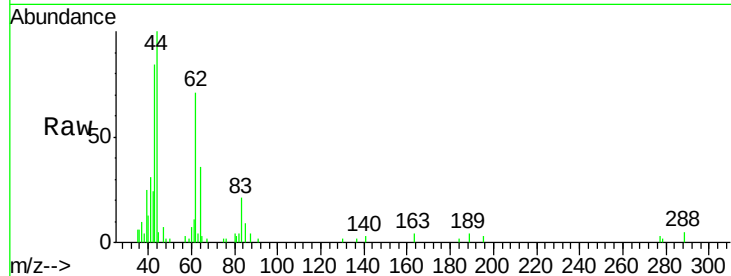
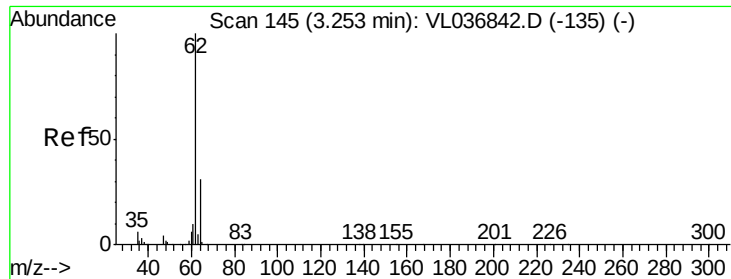
Tgt Ion: 50 Resp: 34100

Ion Ratio Lower Upper

50 100

52 34.1 28.5 42.7





#5

Vinyl Chloride

Concen: 0.158 ppbv m

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

62 100

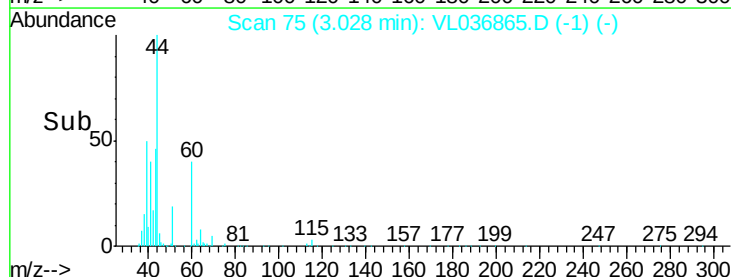
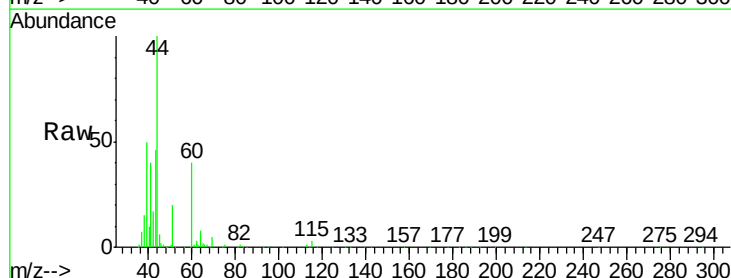
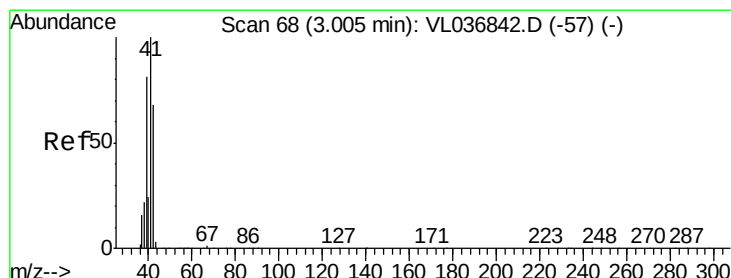
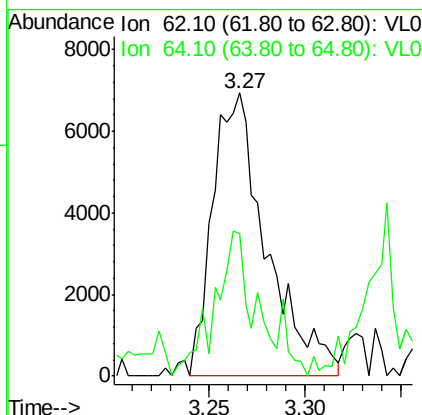
64 50.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#9

Propene

Concen: 0.869 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL036865.D

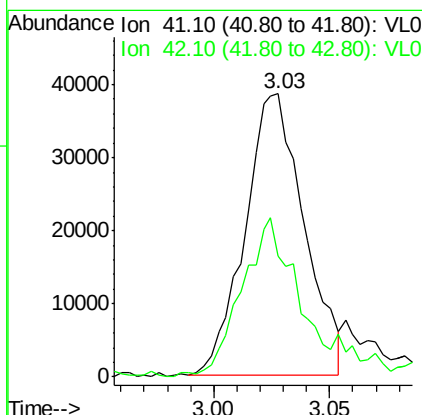
Acq: 27 Apr 2021 19:51

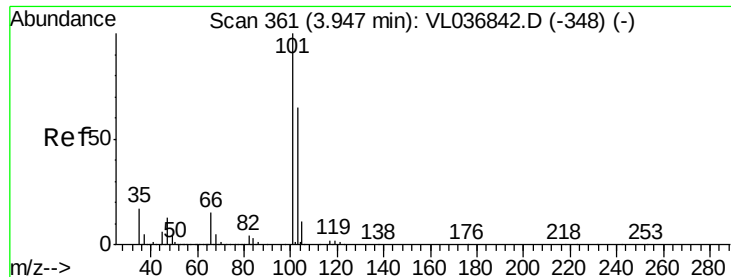
Tgt Ion: 41 Resp: 68500

Ion Ratio Lower Upper

41 100

42 64.6 56.0 84.0



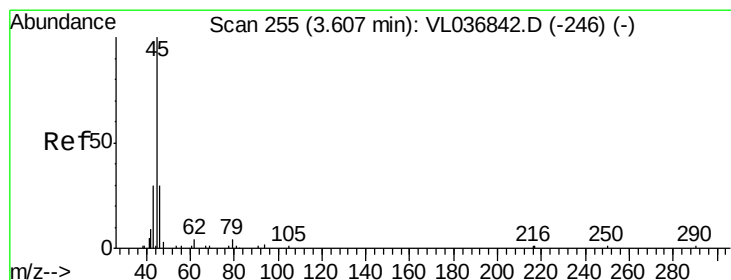
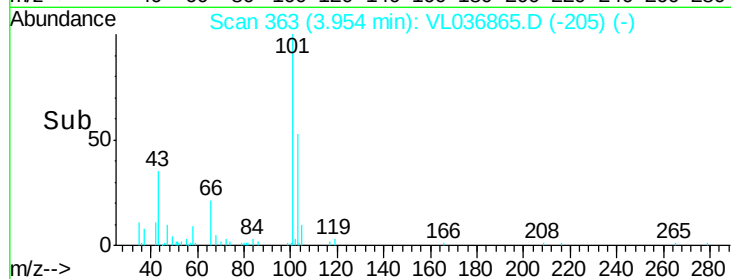
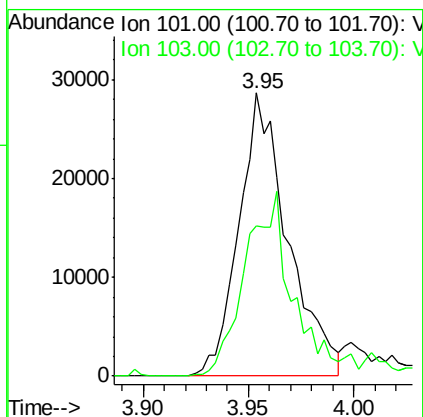
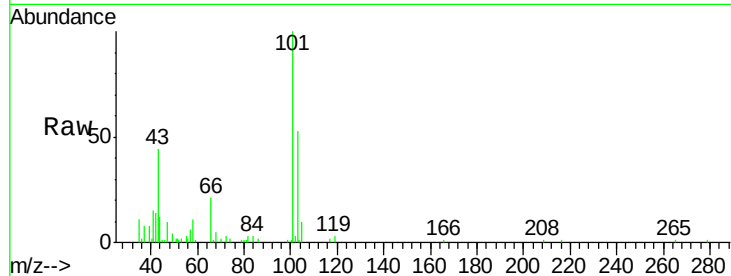


#11
 Trichlorofluoromethane
 Concen: 0.232 ppbv
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:1
 Ion Rati
 101 100
 103 53.

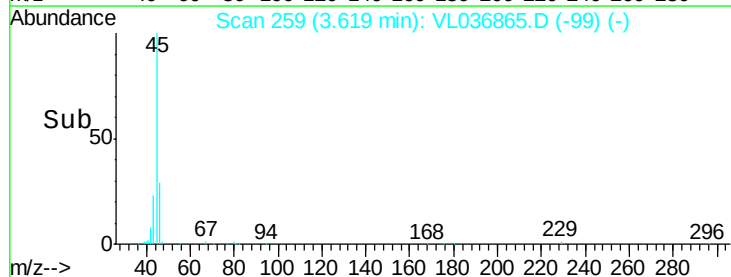
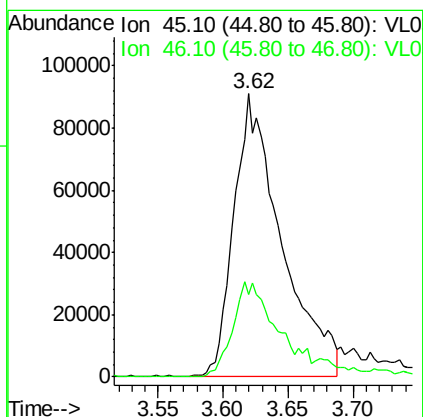
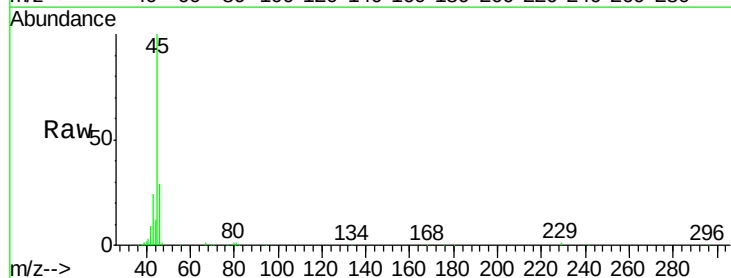
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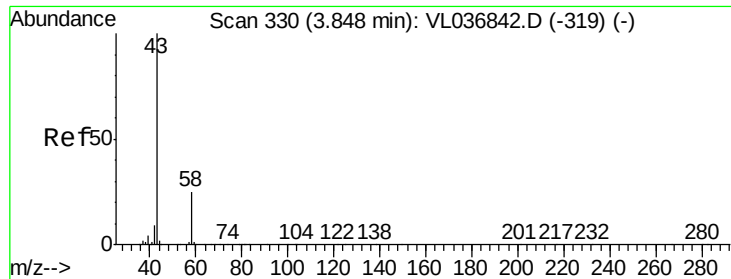
Reviewed By :Semsettin Yesilyurt 04/29/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#13
 Ethanol
 Concen: 22.977 ppbv m
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036865.D
 Acq: 27 Apr 2021 19:51

Tgt Ion: 45 Resp: 231047
 Ion Ratio Lower Upper
 45 100
 46 36.6 16.8 67.4



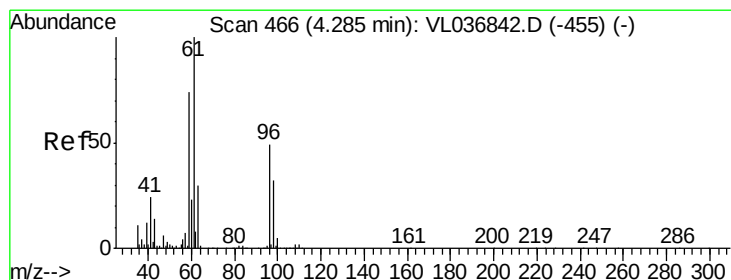
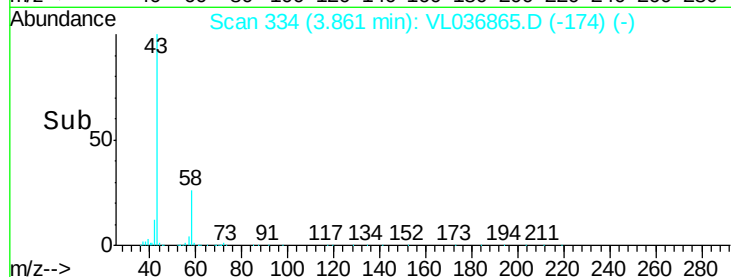
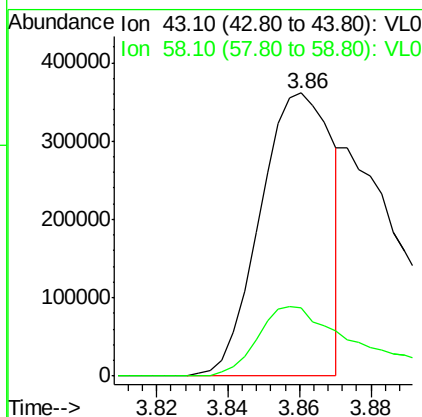
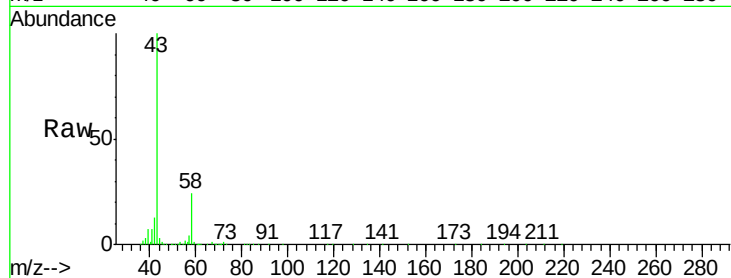


#15
Acetone
Concen: 3.804 ppbv m
RT: 3.86
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:
Ion Ratio
43 100
58 39.

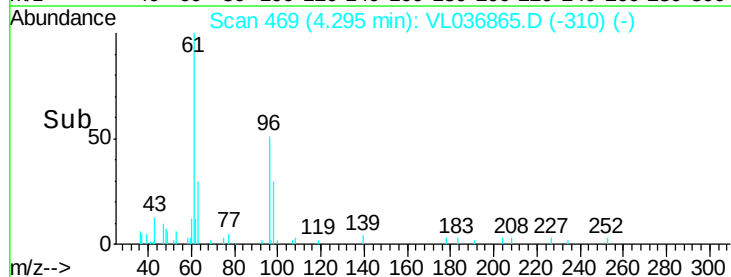
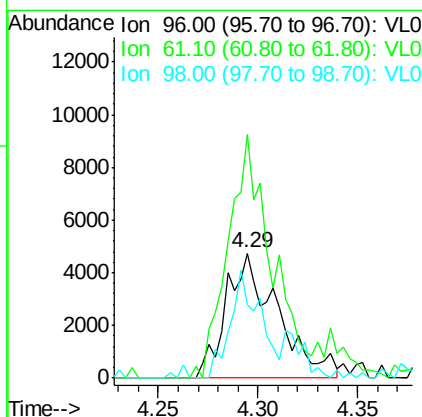
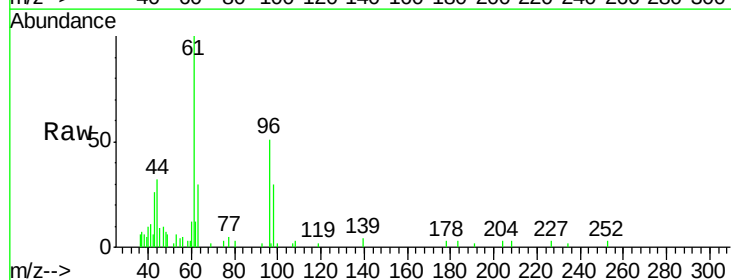
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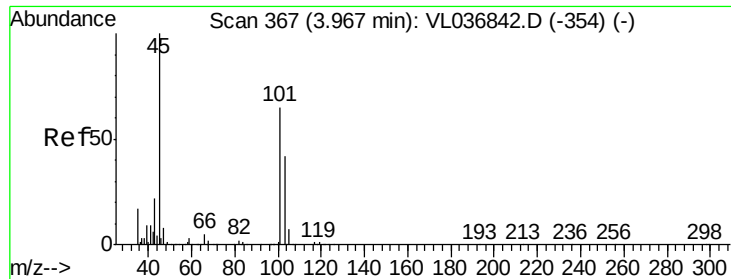
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#18
1,1-Dichloroethene
Concen: 0.146 ppbv m
RT: 4.29 min Scan# 469
Delta R.T. 0.01 min
Lab File: VL036865.D
Acq: 27 Apr 2021 19:51

Tgt Ion: 96 Resp: 8481
Ion Ratio Lower Upper
96 100
61 195.2 162.2 243.2
98 58.3 51.8 77.6





#19

Isopropyl Alcohol

Concen: 2.002 ppbv m

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

45 100

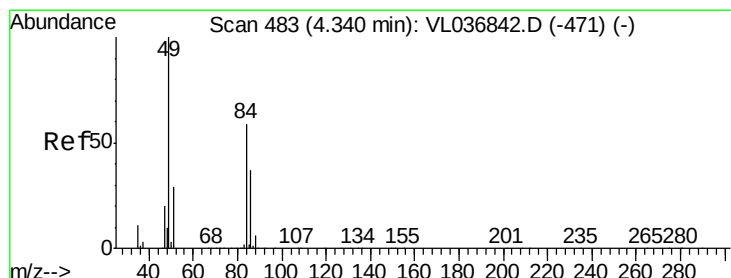
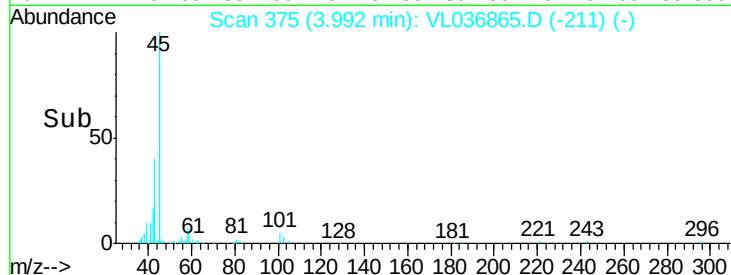
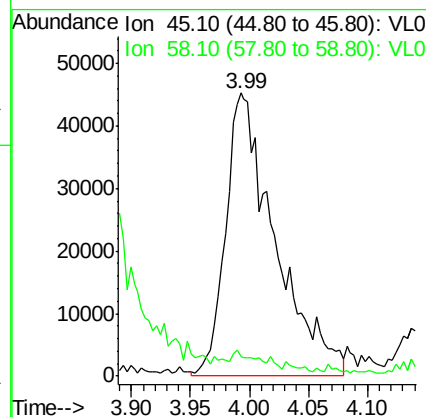
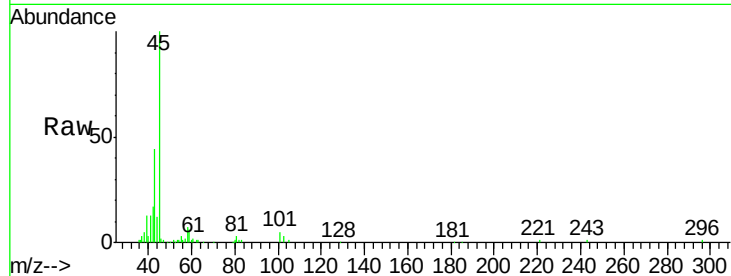
58 5.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#20

Methylene Chloride

Concen: 18.140 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036865.D

Acq: 27 Apr 2021 19:51

Tgt Ion: 84 Resp: 1161481

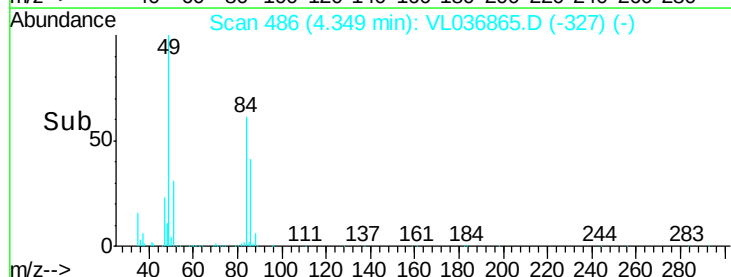
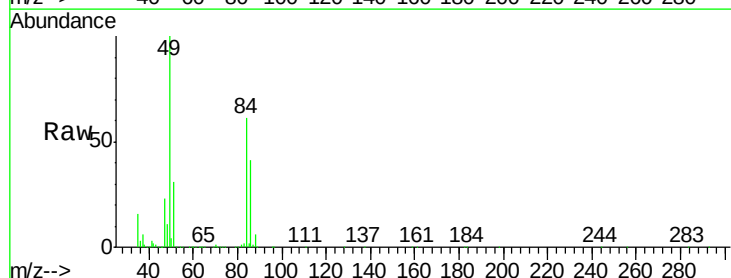
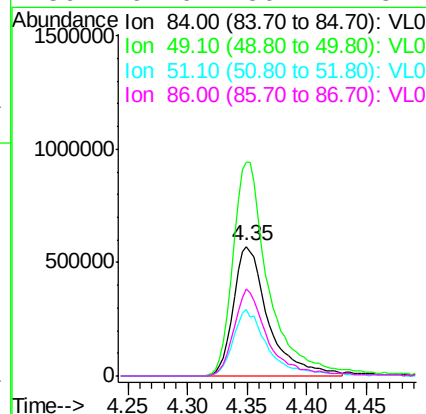
Ion Ratio Lower Upper

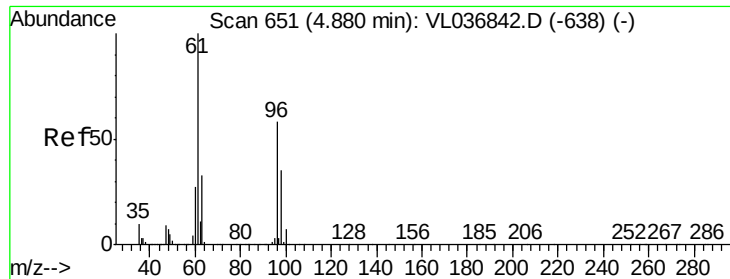
84 100

49 165.1 135.4 203.0

51 51.8 39.3 58.9

86 67.6 50.2 75.2





#22

trans-1,2-Dichloroethene

Concen: 0.206 ppbv m

RT: 4.90 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

96 100

61 151.

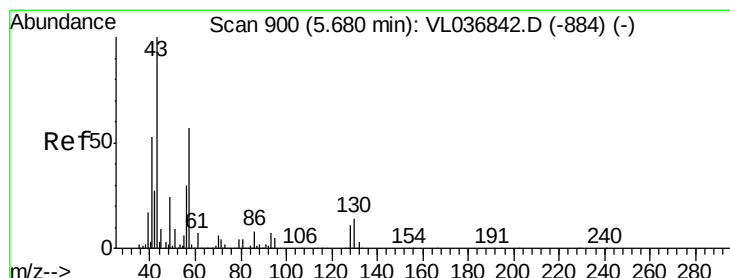
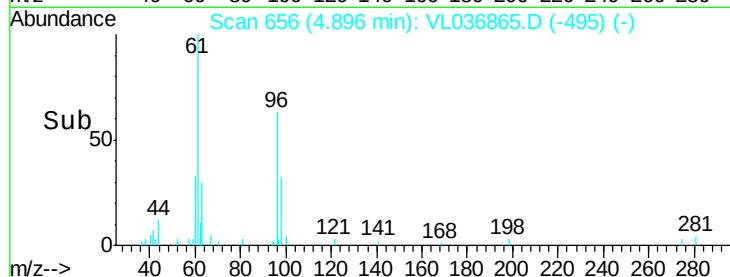
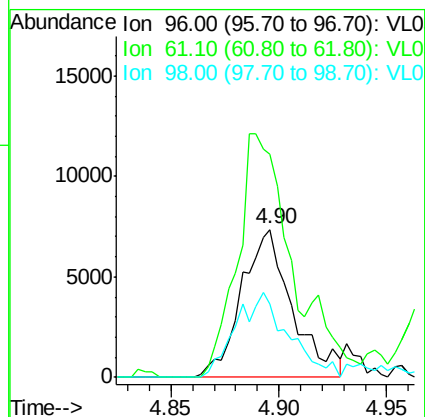
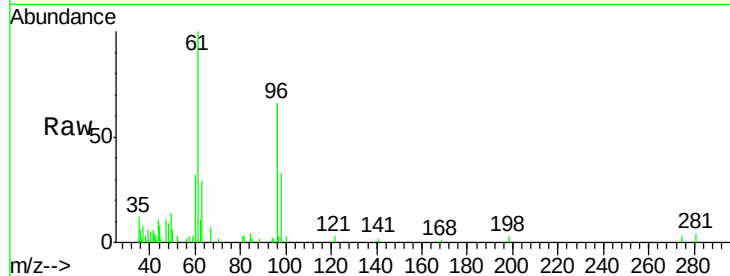
98 49.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#26

Hexane

Concen: 7.524 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL036865.D

Acq: 27 Apr 2021 19:51

Tgt Ion: 57 Resp: 1151303

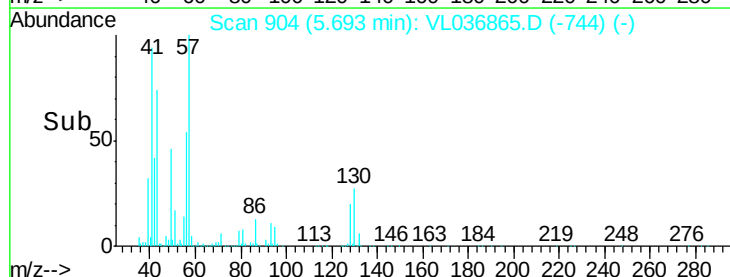
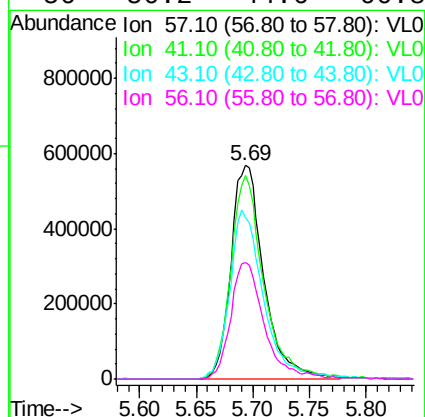
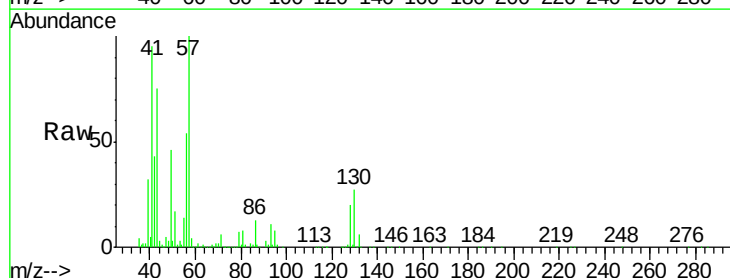
Ion Ratio Lower Upper

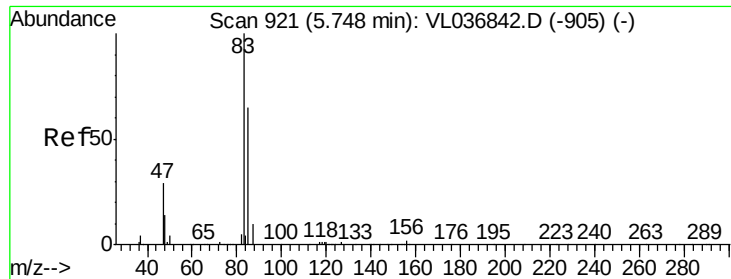
57 100

41 96.9 77.7 116.5

43 80.8 180.5 270.7#

56 56.2 44.6 66.8



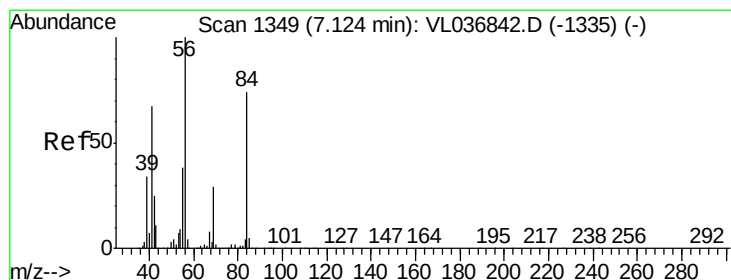
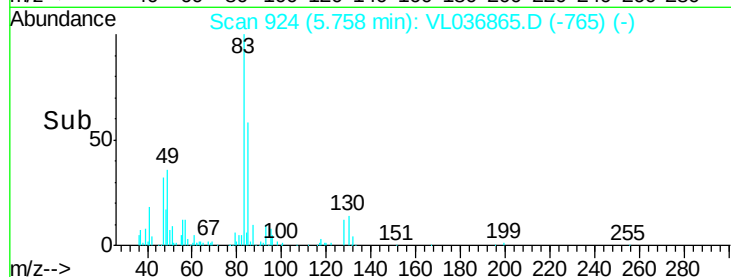
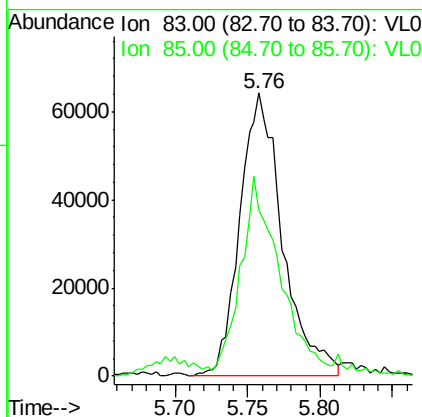
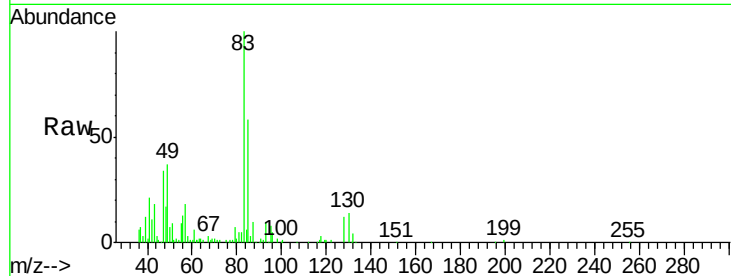


#29
Chloroform
Concen: 0.551 ppbv
RT: 5.76
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:
Ion Ratio
83 100
85 55.

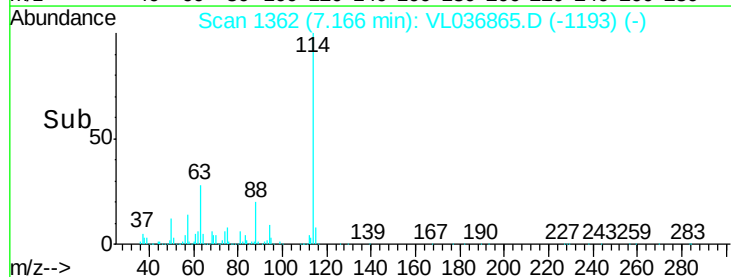
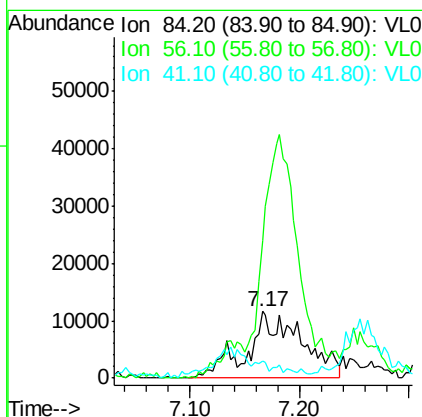
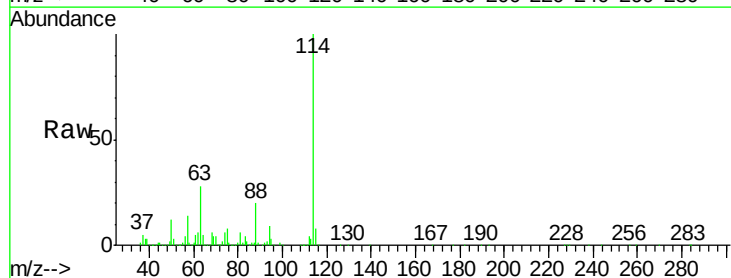
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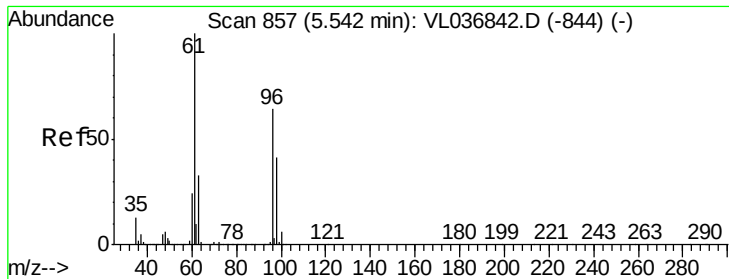
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#30
Cyclohexane
Concen: 0.332 ppbv m
RT: 7.17 min Scan# 1362
Delta R.T. 0.04 min
Lab File: VL036865.D
Acq: 27 Apr 2021 19:51

Tgt Ion: 84 Resp: 40310
Ion Ratio Lower Upper
84 100
56 0.0 115.8 173.6#
41 39.9 74.6 111.8#





#31

cis-1,2-Dichloroethene

Concen: 9.527 ppbv

RT: 5.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

61 100

96 61.

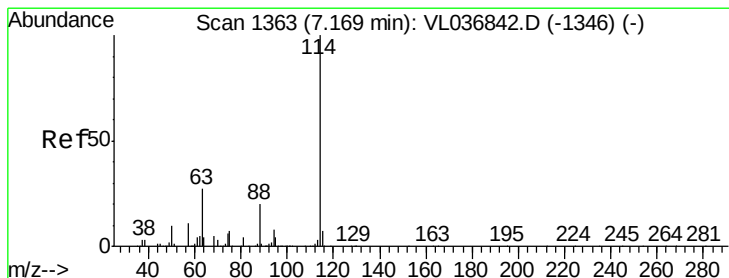
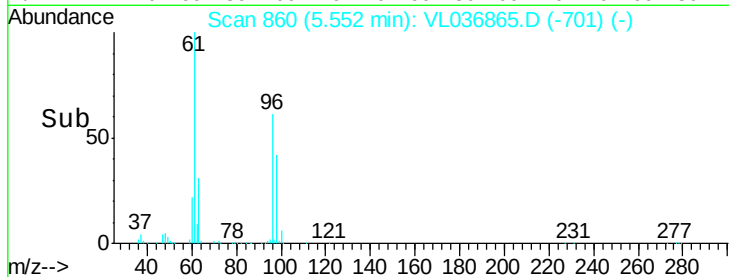
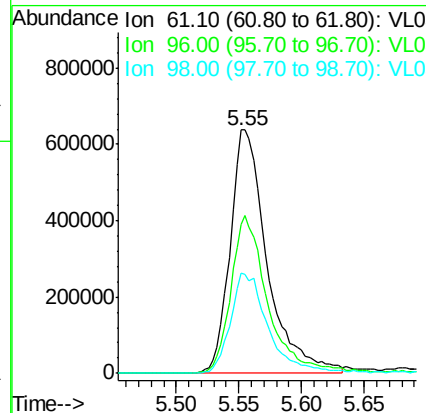
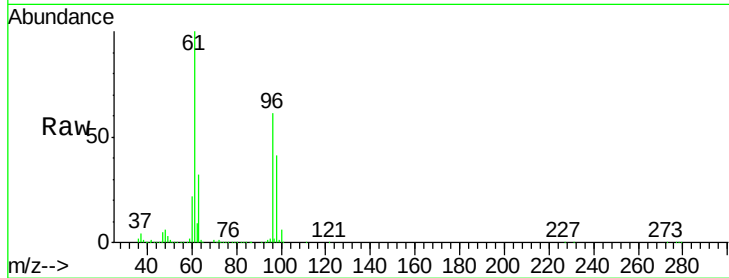
98 41.

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APPROVED

Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL036865.D

Acq: 27 Apr 2021 19:51

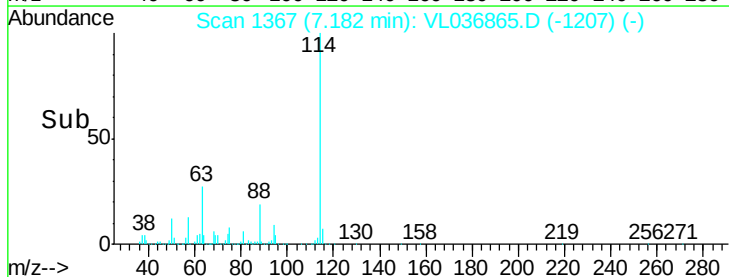
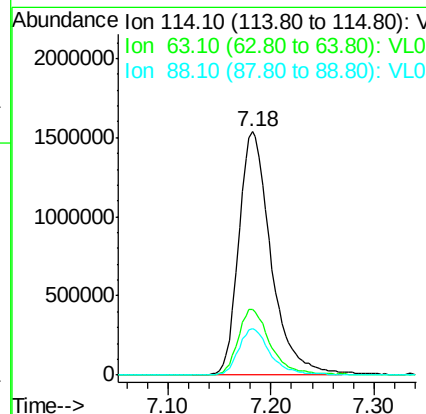
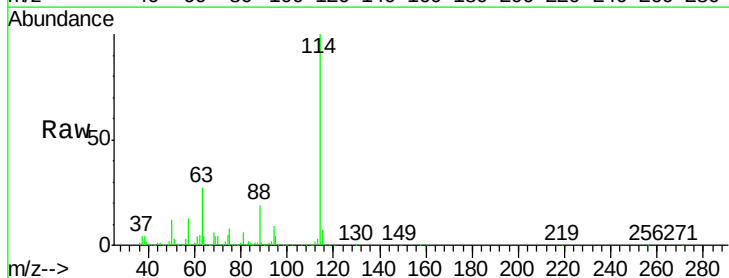
Tgt Ion:114 Resp: 3350315

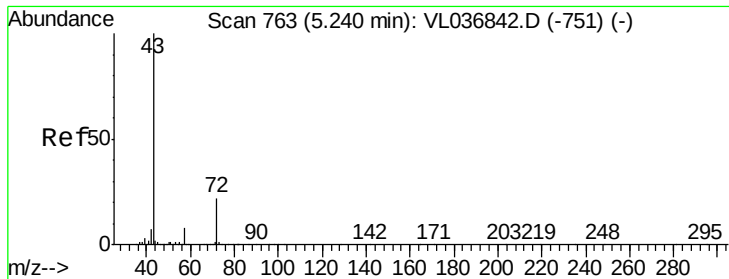
Ion Ratio Lower Upper

114 100

63 27.3 21.9 32.9

88 18.9 15.1 22.7



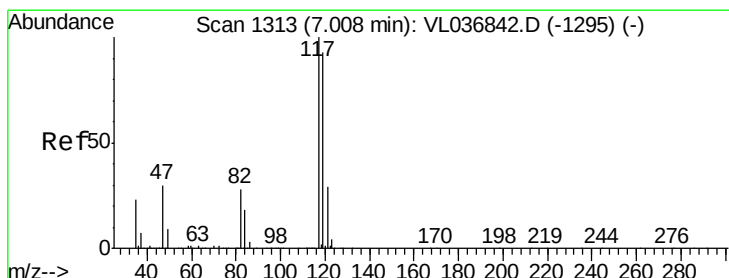
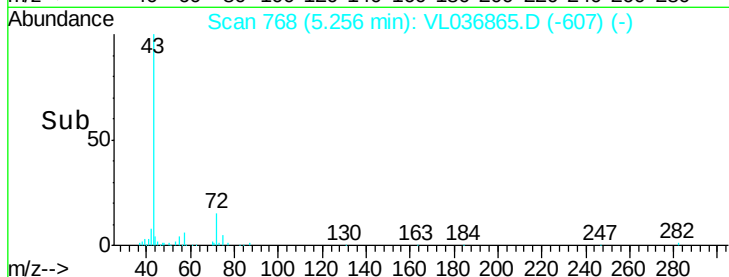
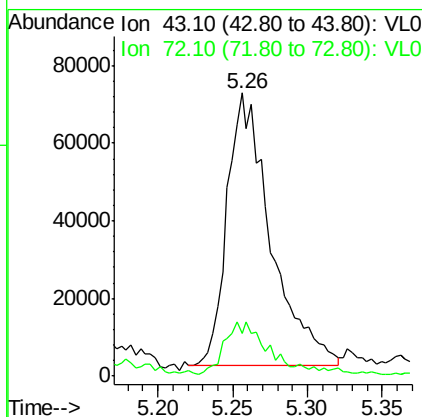
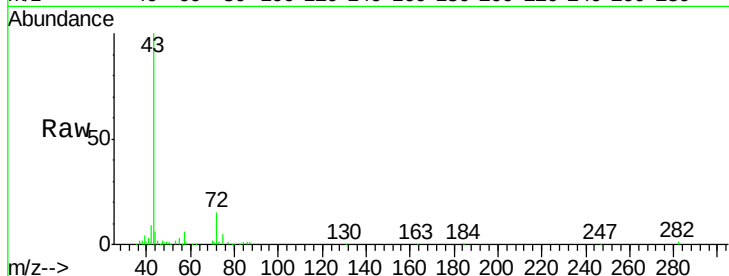


#34
2-Butanone
Concen: 0.982 ppbv
RT: 5.26
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId:
Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:
Ion Ratio
43 100
72 23.

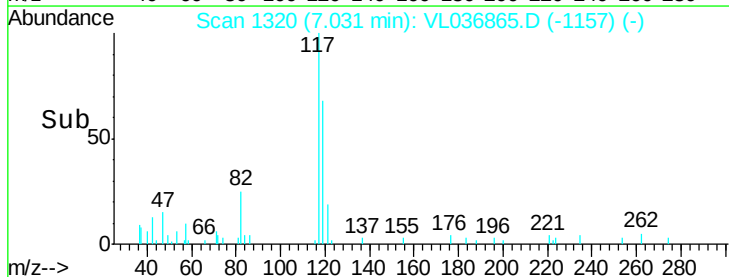
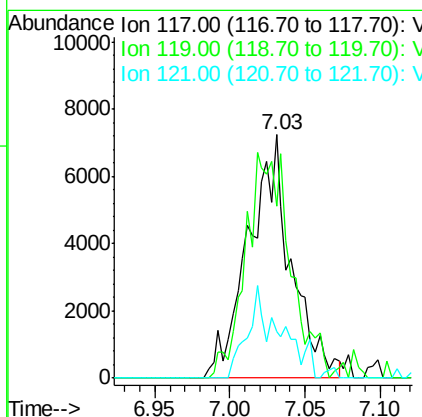
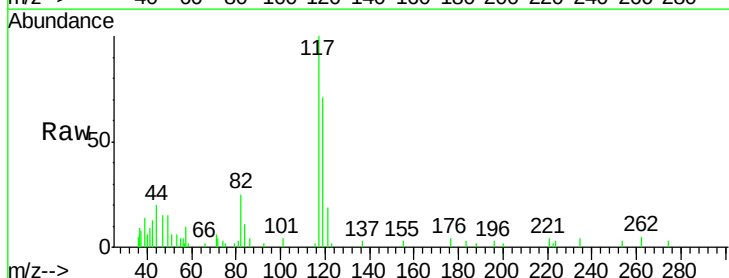
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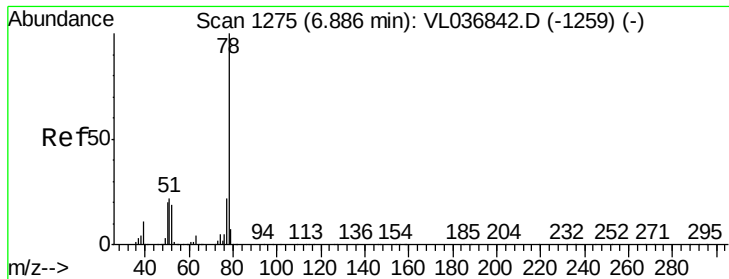
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.02 min
Lab File: VL036865.D
Acq: 27 Apr 2021 19:51

Tgt Ion:117 Resp: 14333
Ion Ratio Lower Upper
117 100
119 70.6 74.6 111.8#
121 18.9 23.3 34.9#





#36

Benzene

Concen: 0.237 ppbv

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

78 100

77 25.

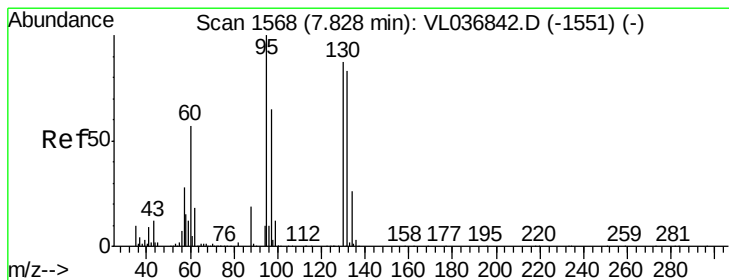
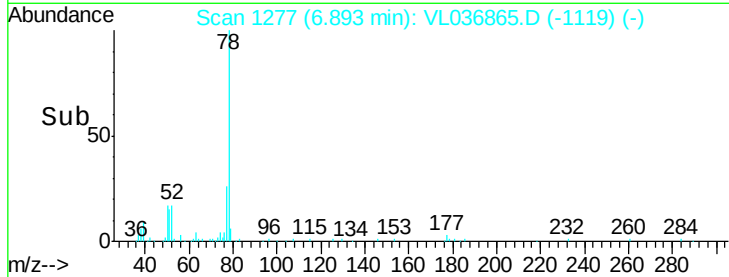
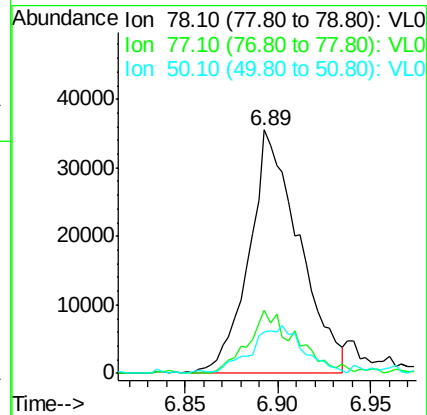
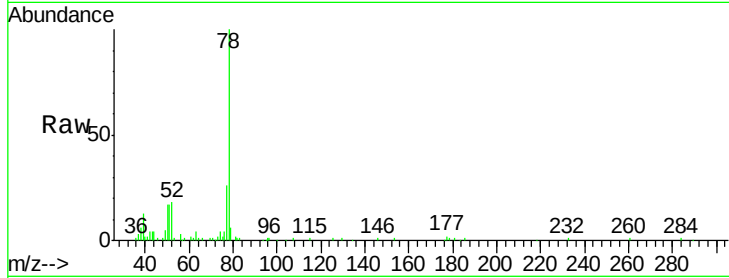
50 16.

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#38

Trichloroethene

Concen: 0.078 ppbv m

RT: 7.84 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VL036865.D

Acq: 27 Apr 2021 19:51

Tgt Ion:130 Resp: 7845

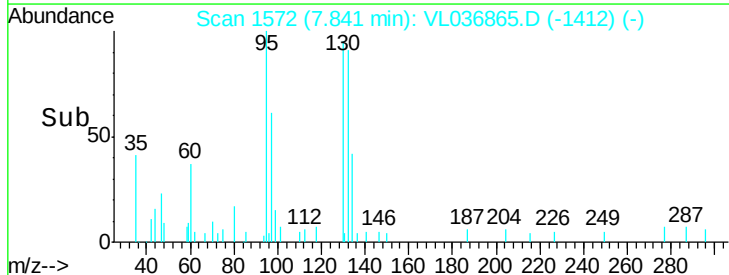
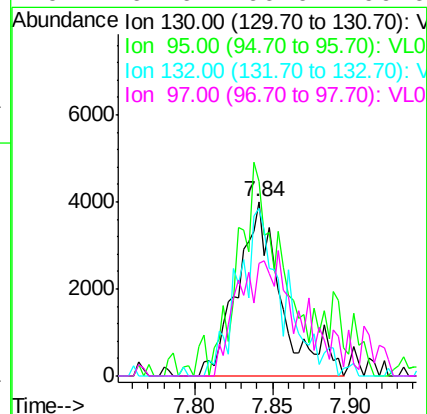
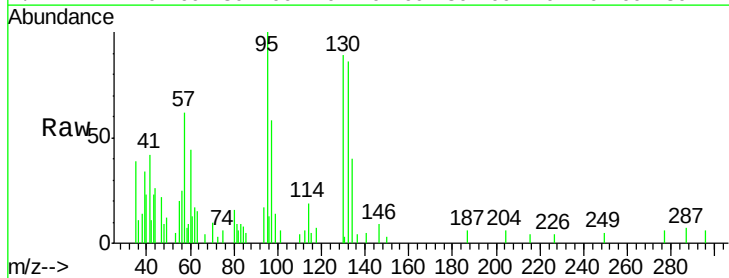
Ion Ratio Lower Upper

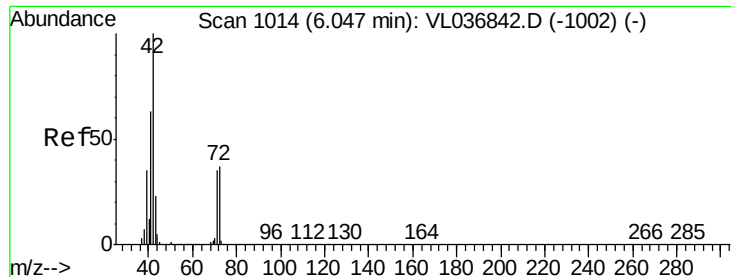
130 100

95 111.8 92.3 138.5

132 96.1 76.8 115.2

97 64.6 60.0 90.0





#41

Tetrahydrofuran

Concen: 0.355 ppbv m

RT: 6.07 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:

Ion Ratio

42 100

72 32.

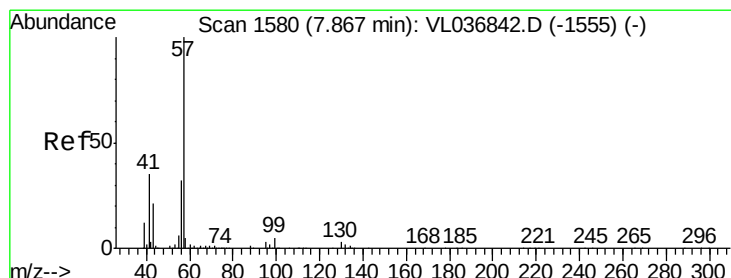
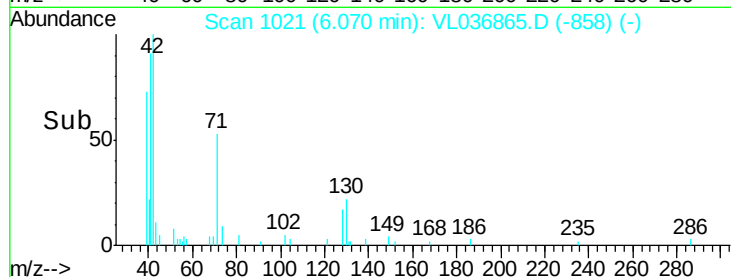
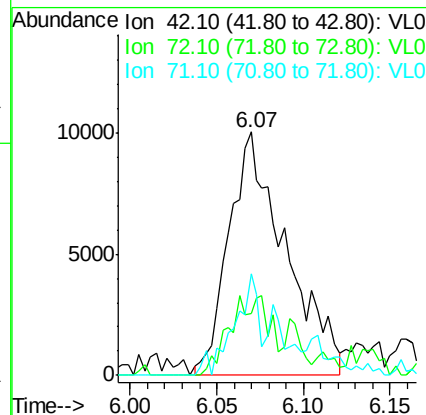
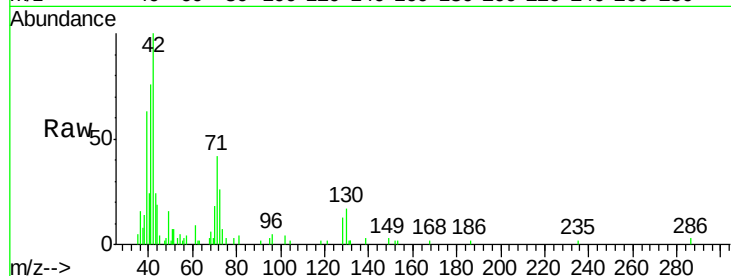
71 35.

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#44

2,2,4-Trimethylpentane

Concen: 0.137 ppbv m

RT: 7.88 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VL036865.D

Acq: 27 Apr 2021 19:51

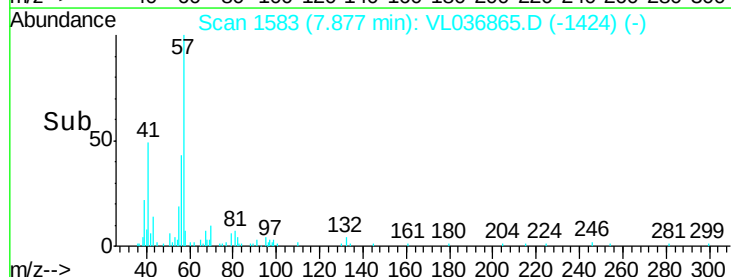
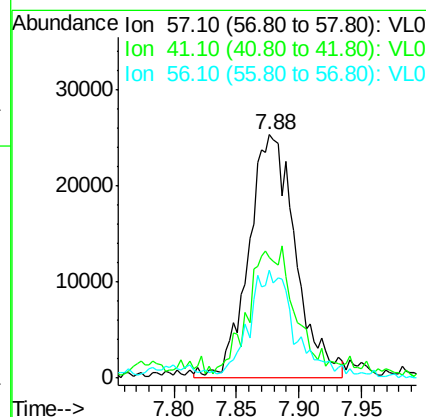
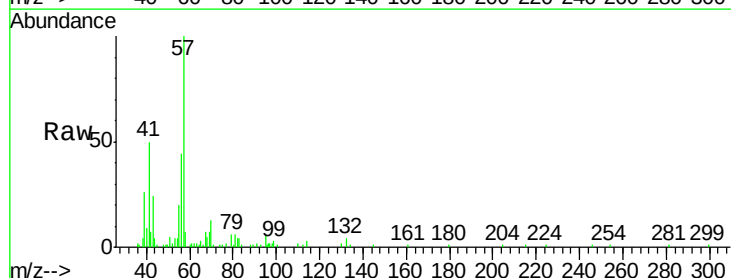
Tgt Ion: 57 Resp: 66124

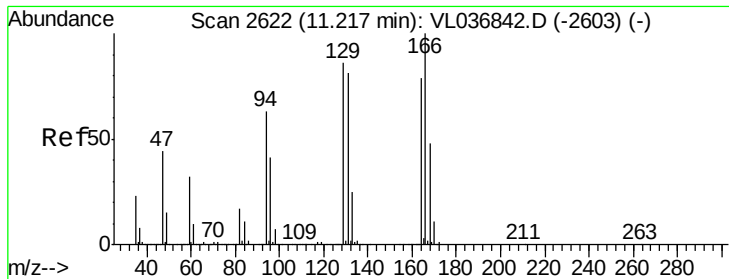
Ion Ratio Lower Upper

57 100

41 54.1 28.2 42.4#

56 45.8 25.9 38.9#





#52

Tetrachloroethene

Concen: 0.061 ppbv m

RT: 11.23

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Apr 2021 19:51

ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion:1

Ion Rati

164 100

166 104.

129 67.

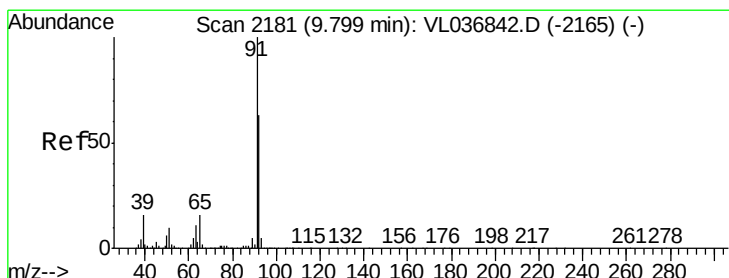
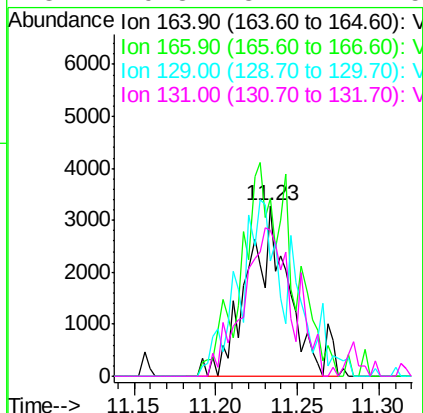
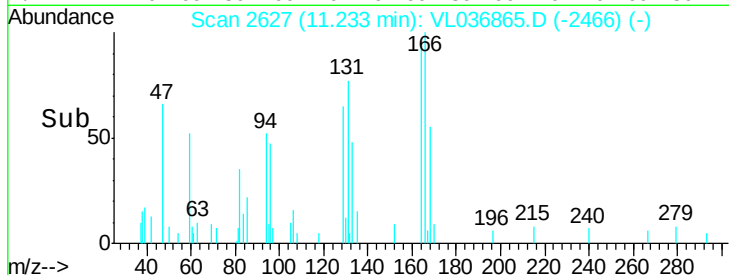
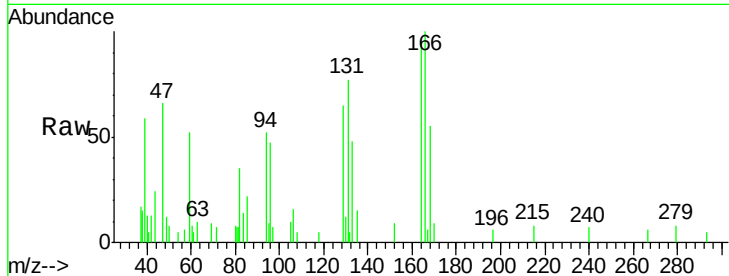
131 79.8 81.7 122.5#

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Reviewed By :Semsettin Yesilyurt 04/29/2021

Supervised By :Mahesh Dadoda 04/29/2021



#53

Toluene

Concen: 1.005 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.02 min

Lab File: VL036865.D

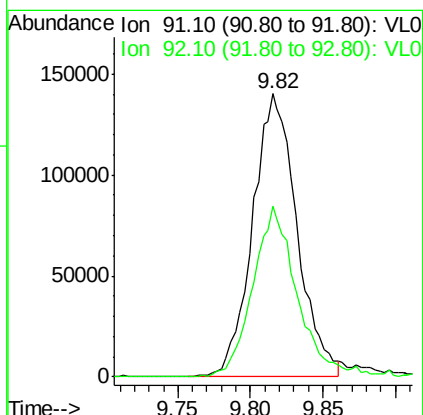
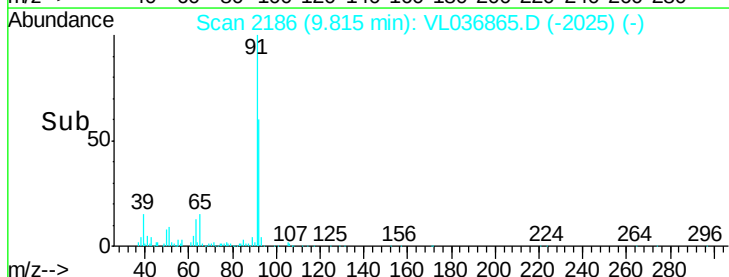
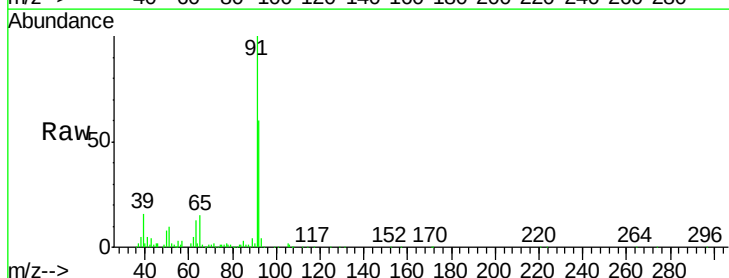
Acq: 27 Apr 2021 19:51

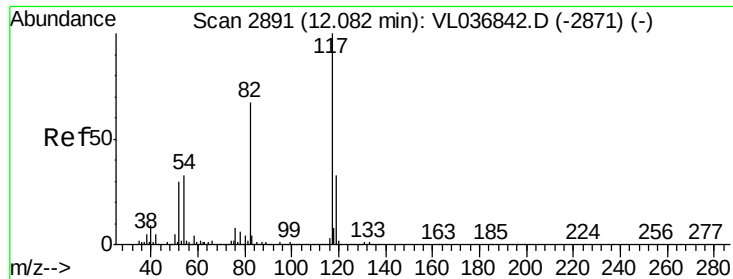
Tgt Ion: 91 Resp: 296968

Ion Ratio Lower Upper

91 100

92 61.7 49.0 73.4



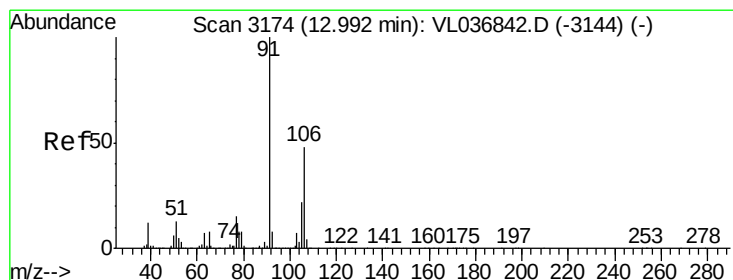
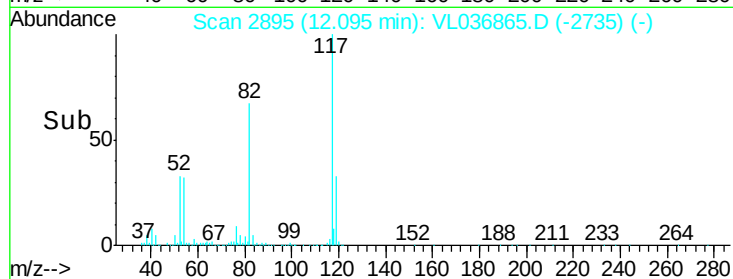
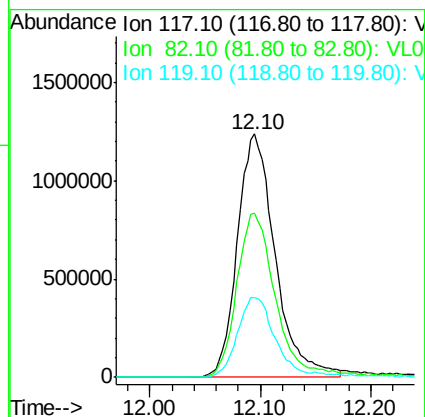
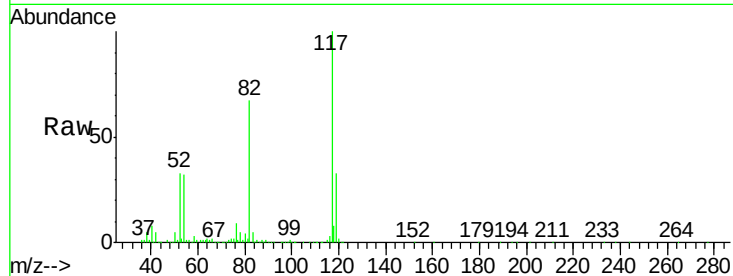


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion: 1
Ion Ratio
117 100
82 70.
119 34.

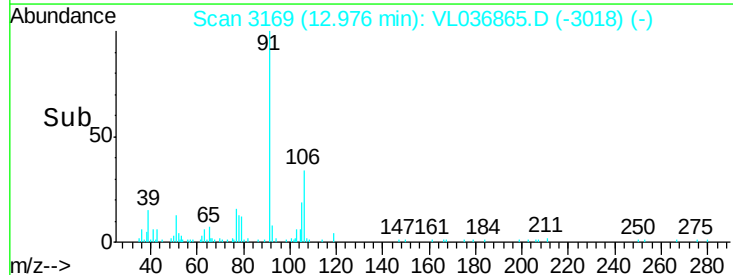
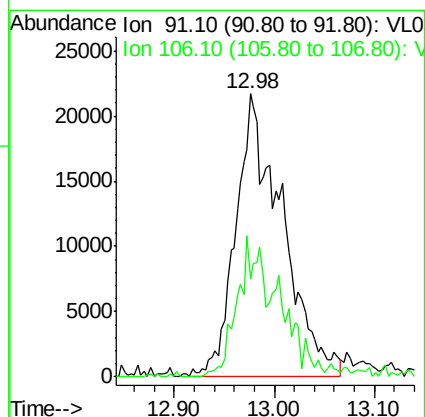
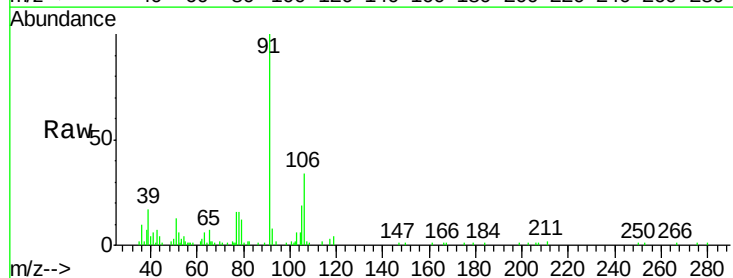
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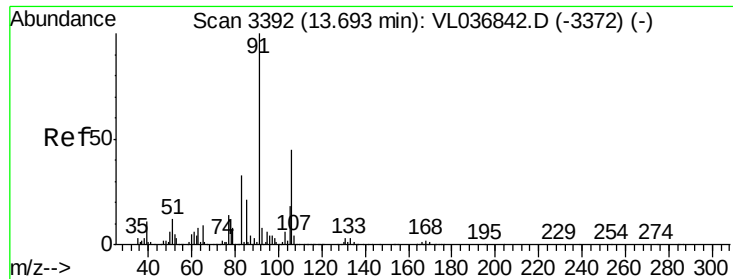
Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#59
m/p-Xylene
Concen: 0.209 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.02 min
Lab File: VL036865.D
Acq: 27 Apr 2021 19:51

Tgt Ion: 91 Resp: 69800
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#



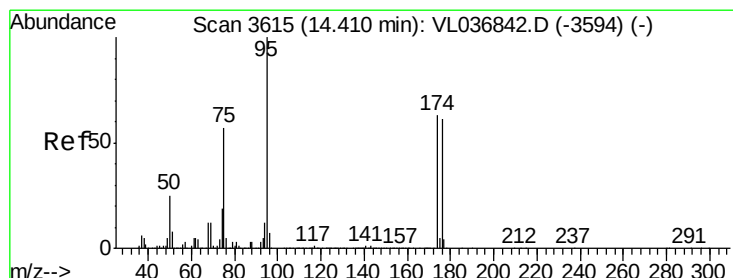
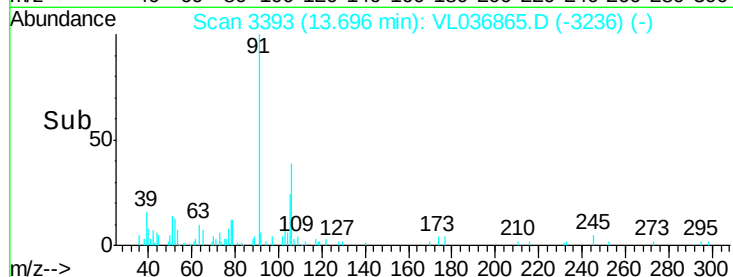
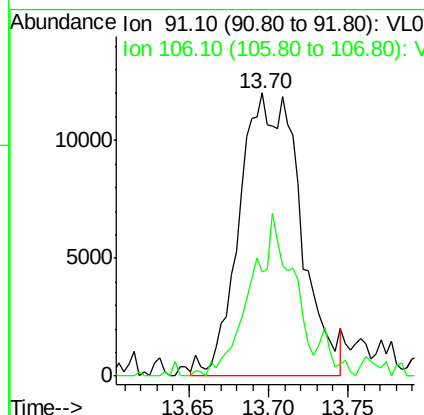
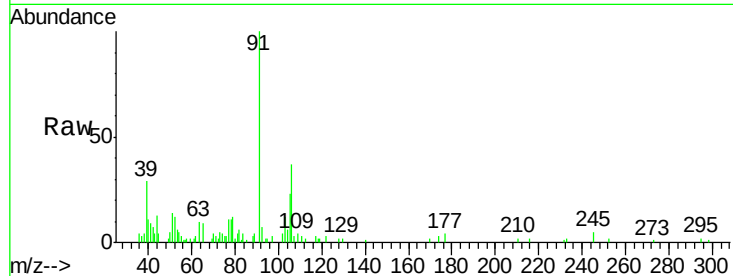


#60
o-Xylene
Concen: 0.098 ppbv m
RT: 13.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 19:51 OFFSITE-DDC-INFLUENT

Tot Ion:
Ion Ratio
91 100
106 46.

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Reviewed By :Semsettin Yesilyurt 04/29/2021
Supervised By :Mahesh Dadoda 04/29/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 10.383 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.02 min
Lab File: VL036865.D
Acq: 27 Apr 2021 19:51

Tgt Ion: 95 Resp: 2456359
Ion Ratio Lower Upper
95 100
174 62.7 52.2 78.2
175 4.5 4.0 6.0

