

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036867.D
 Acq On : 27 Apr 2021 21:11
 Operator : SY/AP
 Sample : M2172-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/28/2021
 Supervised By : Mahesh Dadoda 04/29/2021

Quant Time: Apr 28 07:29:35 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	1428460	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3373078	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2930259	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2232186	9.49	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	38772	0.172 ppbv	92
3) Chlorodifluoromethane	2.99	51	70346m	0.270 ppbv	
4) Chloromethane	3.15	50	30092	0.352 ppbv	92
5) Vinyl Chloride	3.27	62	17154m	0.199 ppbv	
9) Propene	3.02	41	69851	0.881 ppbv	94
11) Trichlorofluoromethane	3.96	101	53216	0.265 ppbv	84
13) Ethanol	3.62	45	99678m	9.858 ppbv	
15) Acetone	3.86	43	552255	4.102 ppbv	96
18) 1,1-Dichloroethene	4.30	96	12674m	0.217 ppbv	
19) Isopropyl Alcohol	3.99	45	112660m	1.689 ppbv	
20) Methylene Chloride	4.35	84	121112	1.881 ppbv	97
22) trans-1,2-Dichloroethene	4.90	96	26259m	0.448 ppbv	
24) 1,1-Dichloroethane	5.01	63	50496	0.388 ppbv #	94
26) Hexane	5.69	57	131911m	0.857 ppbv	
29) Chloroform	5.75	83	232215	0.968 ppbv	98
30) Cyclohexane	7.17	84	42322m	0.347 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	3530508	25.562 ppbv	98
34) 2-Butanone	5.27	43	133869	0.906 ppbv	99
35) Carbon Tetrachloride	7.03	117	16335m	0.071 ppbv	
36) Benzene	6.89	78	60874	0.214 ppbv #	94
41) Tetrahydrofuran	6.08	42	26100m	0.404 ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	62785m	0.129 ppbv	
52) Tetrachloroethene	11.23	164	6737m	0.070 ppbv	
53) Toluene	9.82	91	319951	1.076 ppbv	99
58) Ethyl Benzene	12.72	91	36977m	0.099 ppbv	
59) m/p-Xylene	12.98	91	82317m	0.248 ppbv	
60) o-Xylene	13.70	91	33997m	0.106 ppbv	

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

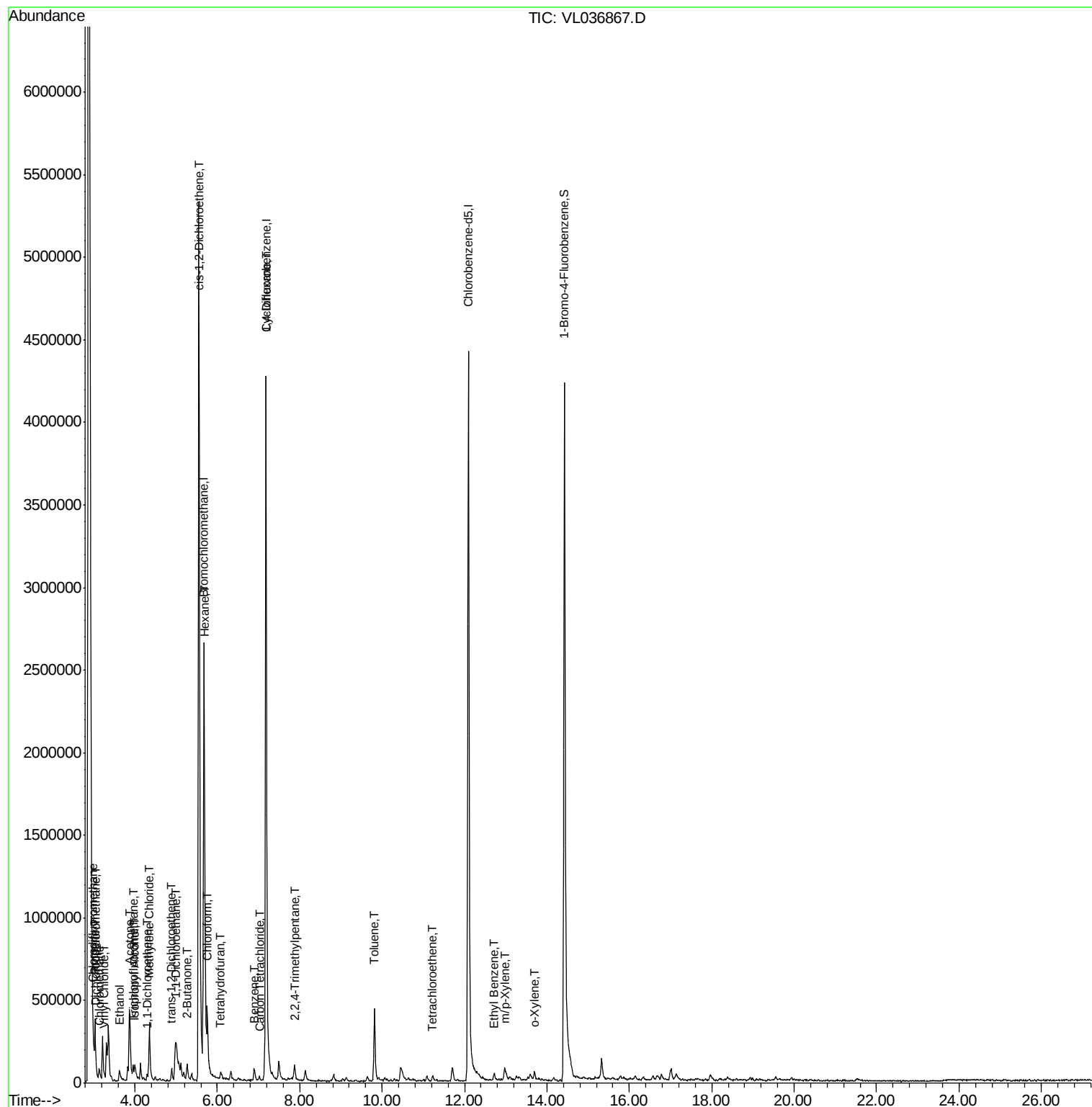
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
Data File : VL036867.D
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ALS Vial : 1 Sample Multiplier: 1

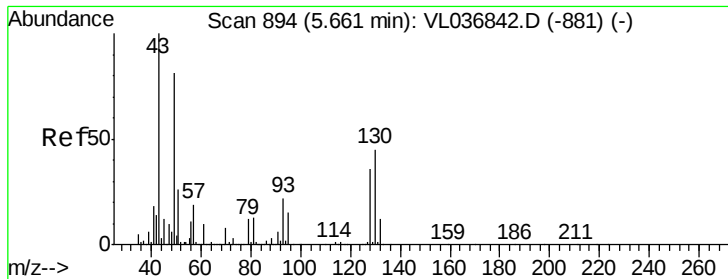
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Quant Time: Apr 28 07:29:35 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Apr 27 16:56:35 2021
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Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:

Ion Ratio

49 100

128 48.

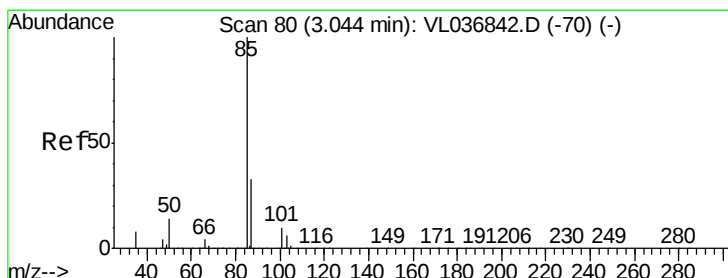
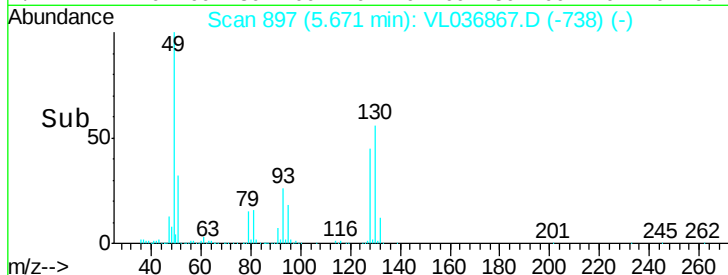
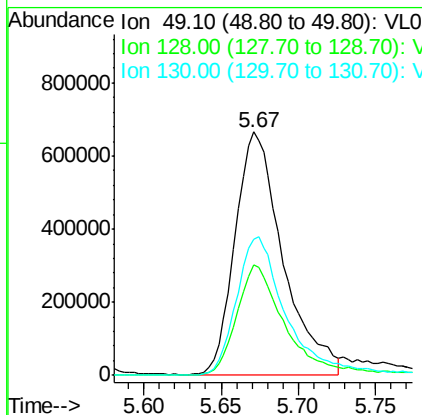
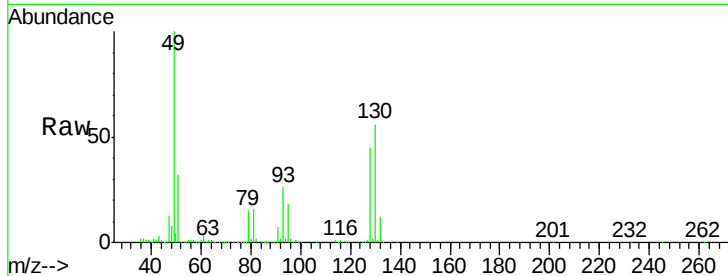
130 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#2

Dichlorodifluoromethane

Concen: 0.172 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036867.D

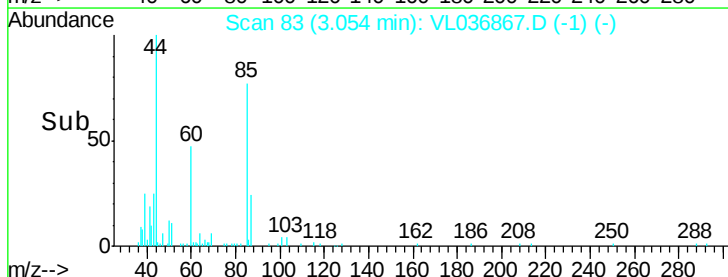
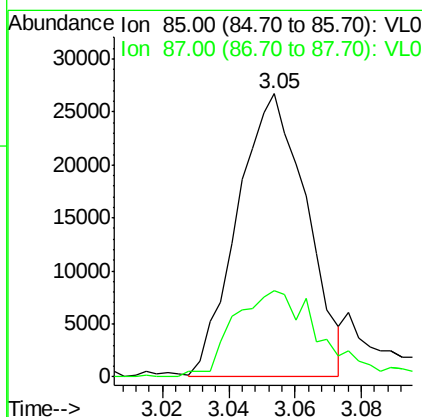
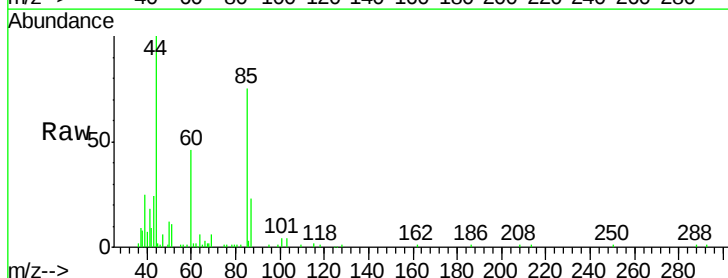
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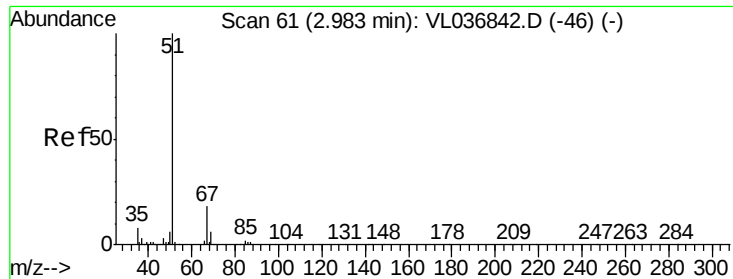
Tgt Ion: 85 Resp: 38772

Ion Ratio Lower Upper

85 100

87 28.4 26.2 39.2



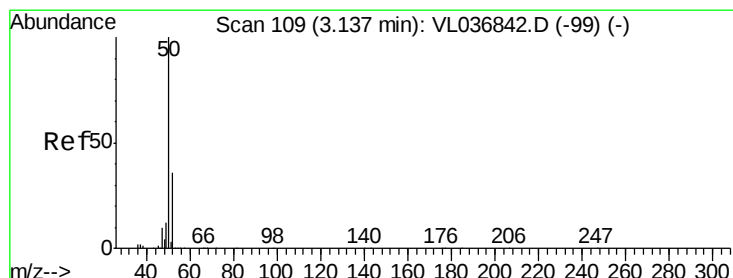
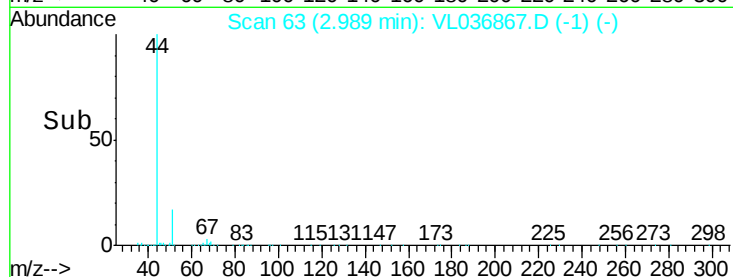
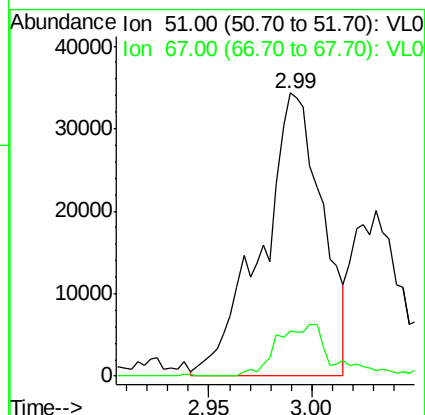
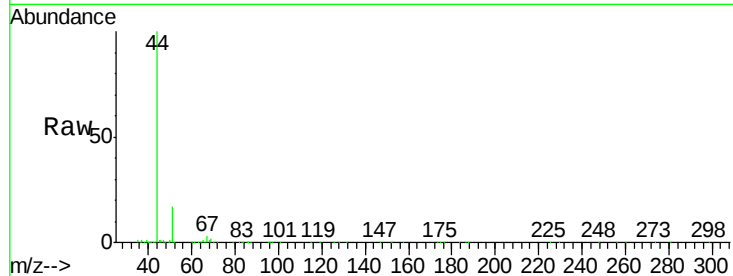


#3
Chlorodifluoromethane
Concen: 0.270 ppbv m
RT: 2.99
Instrument: MSVOA.L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:
Ion Ratio
51 100
67 1.

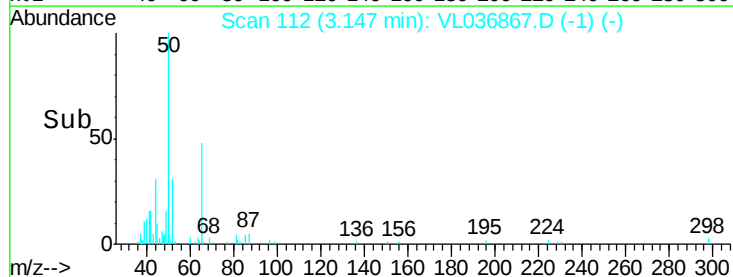
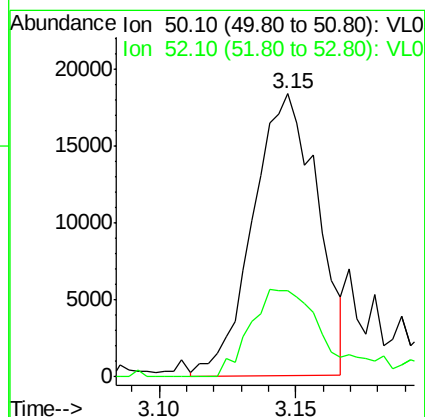
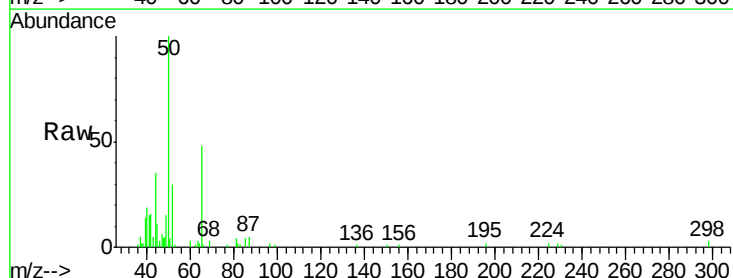
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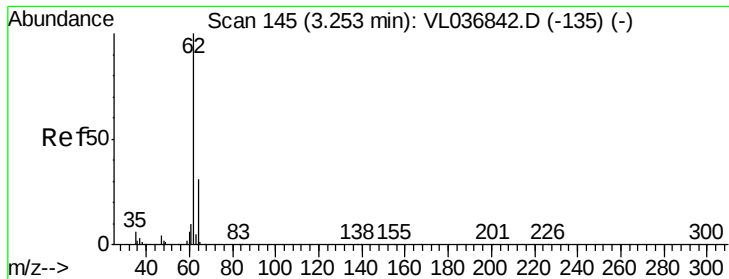
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#4
Chloromethane
Concen: 0.352 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.01 min
Lab File: VL036867.D
Acq: 27 Apr 2021 21:11

Tgt Ion: 50 Resp: 30092
Ion Ratio Lower Upper
50 100
52 30.8 28.5 42.7





#5

Vinyl Chloride

Concen: 0.199 ppbv m

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:

Ion Ratio

62 100

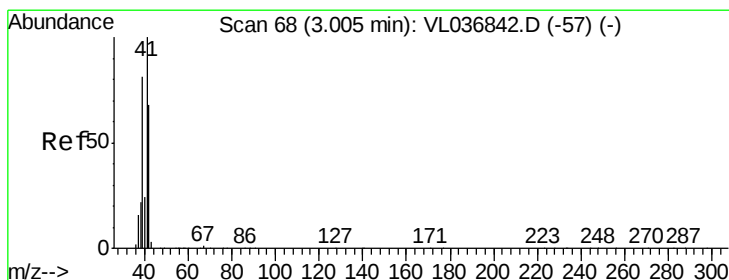
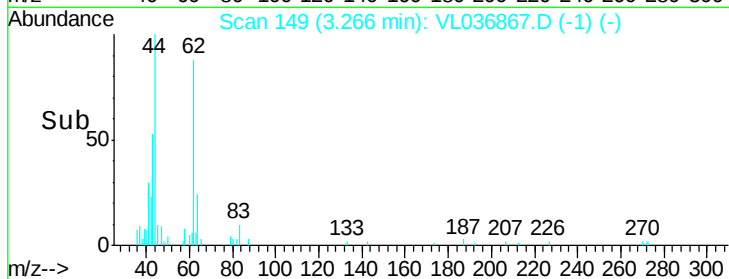
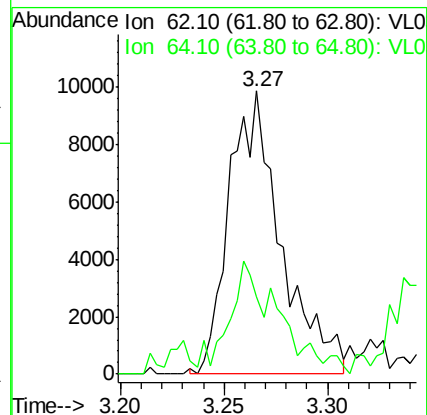
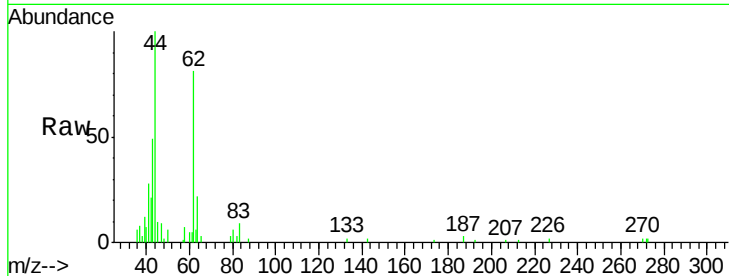
64 27.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#9

Propene

Concen: 0.881 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL036867.D

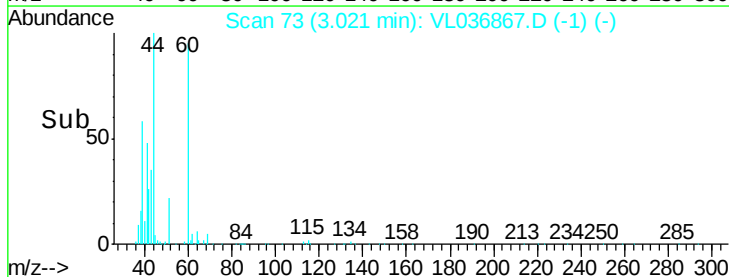
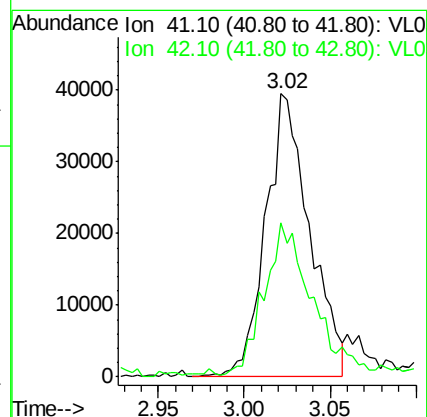
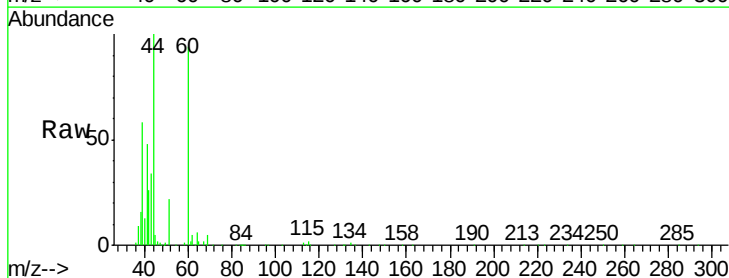
Acq: 27 Apr 2021 21:11

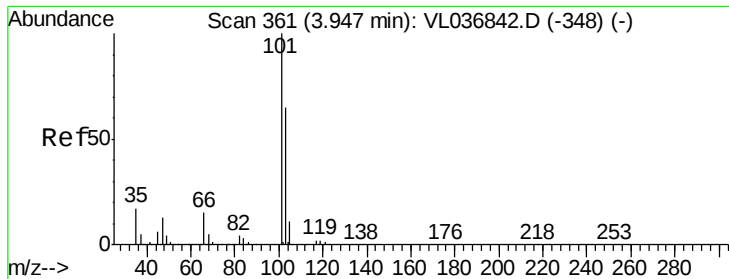
Tgt Ion: 41 Resp: 69851

Ion Ratio Lower Upper

41 100

42 65.3 56.0 84.0



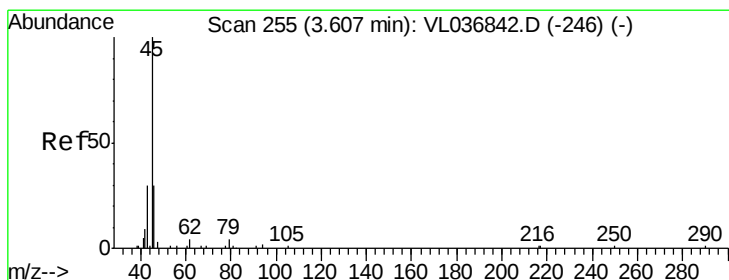
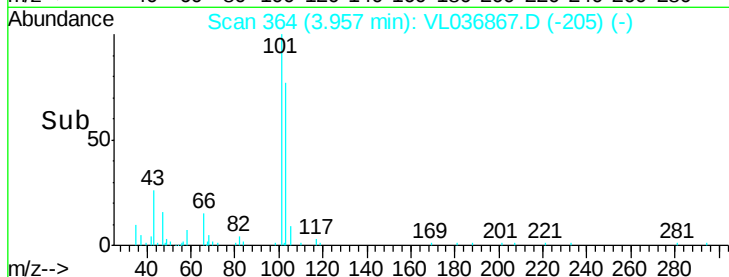
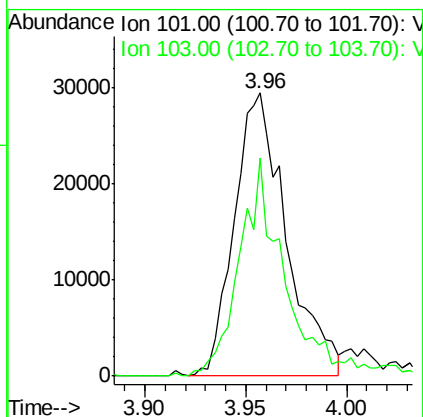
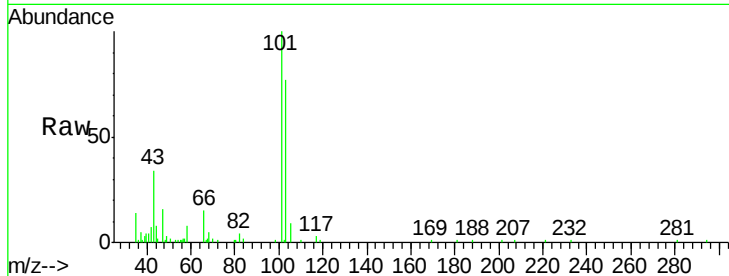


#11
 Trichlorofluoromethane
 Concen: 0.265 ppbv
 RT: 3.96
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:1
 Ion Rati
 101 100
 103 77.

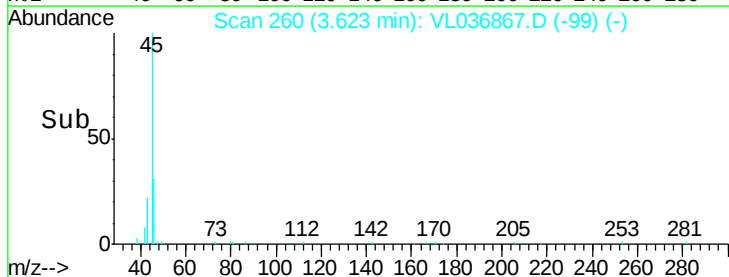
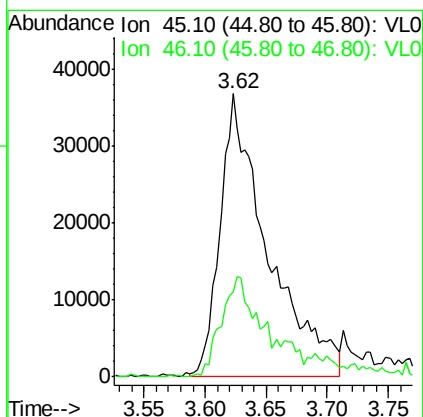
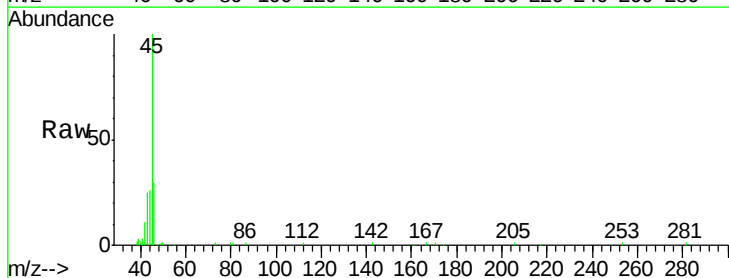
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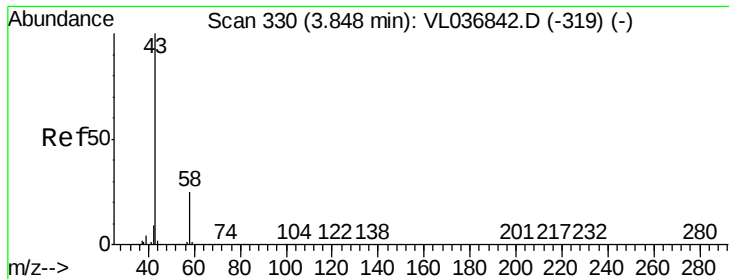
Reviewed By :Semsettin Yesilyurt 04/28/2021
 Supervised By :Mahesh Dadoda 04/29/2021



#13
 Ethanol
 Concen: 9.858 ppbv m
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL036867.D
 Acq: 27 Apr 2021 21:11

Tgt Ion: 45 Resp: 99678
 Ion Ratio Lower Upper
 45 100
 46 40.3 16.8 67.4



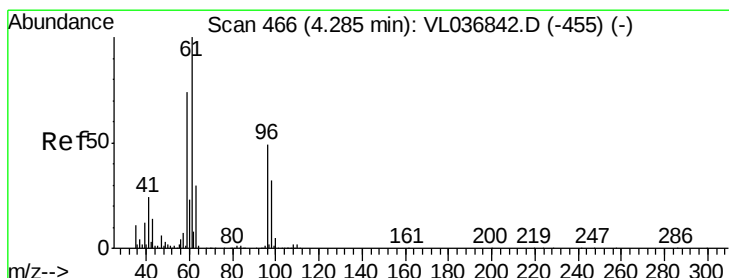
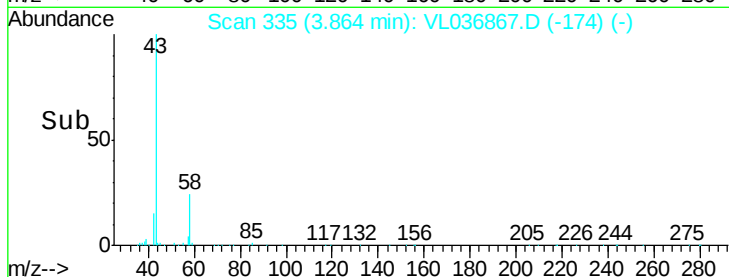
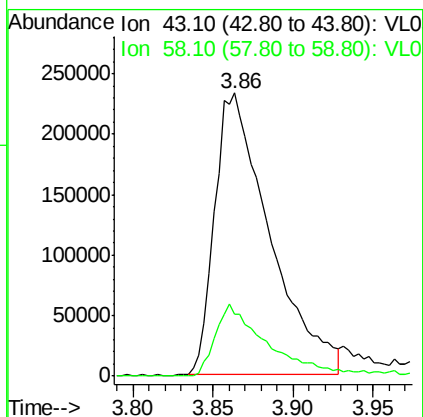
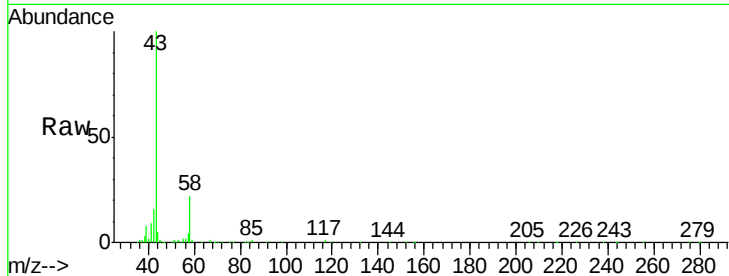


#15
Acetone
Concen: 4.102 ppbv
RT: 3.86
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:
Ion Ratio
43 100
58 24.

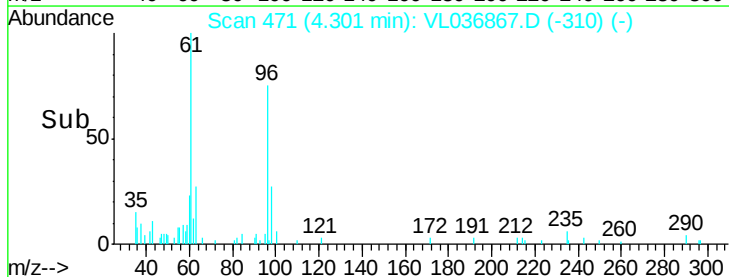
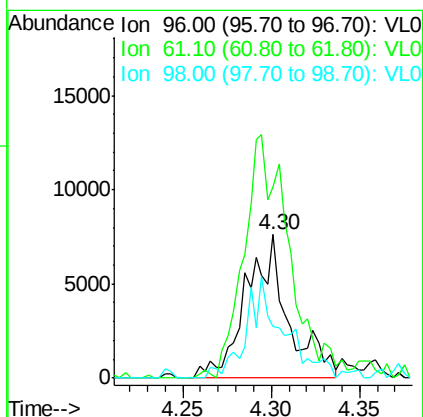
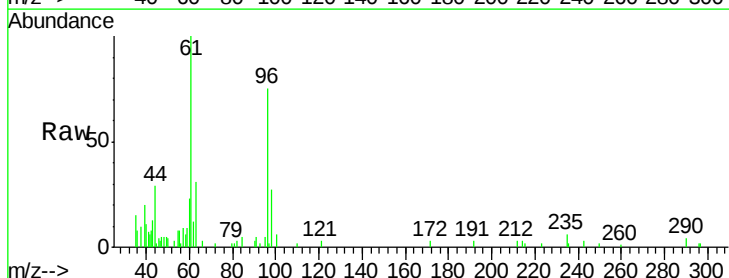
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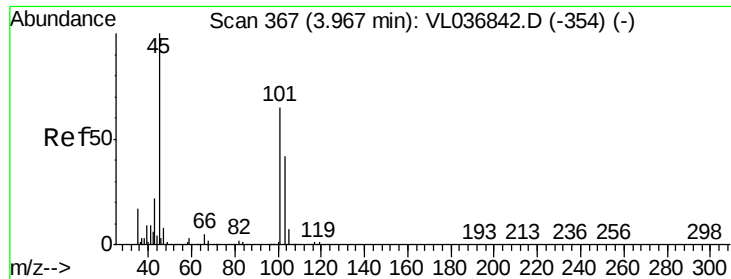
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#18
1,1-Dichloroethene
Concen: 0.217 ppbv m
RT: 4.30 min Scan# 471
Delta R.T. 0.02 min
Lab File: VL036867.D
Acq: 27 Apr 2021 21:11

Tgt Ion: 96 Resp: 12674
Ion Ratio Lower Upper
96 100
61 133.3 162.2 243.2#
98 36.5 51.8 77.6#





#19

Isopropyl Alcohol

Concen: 1.689 ppbv m

RT: 3.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:

Ion Ratio

45 100

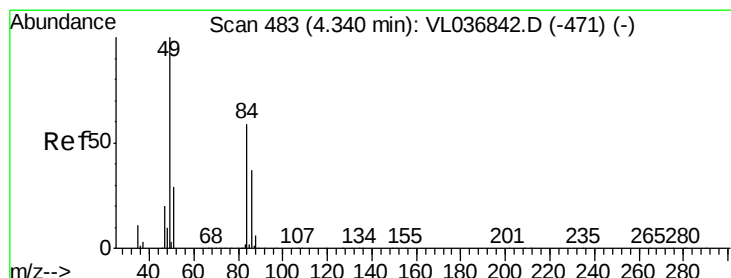
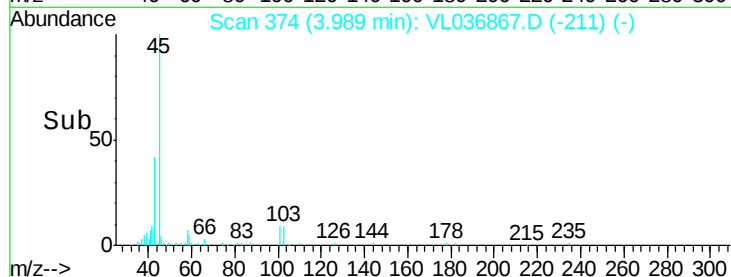
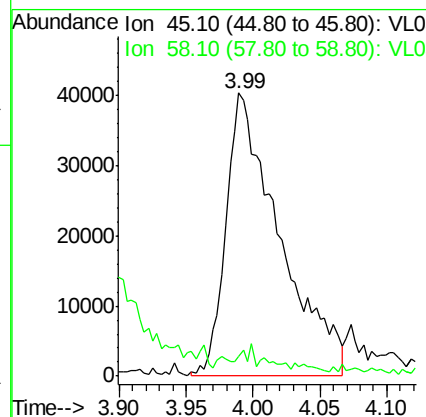
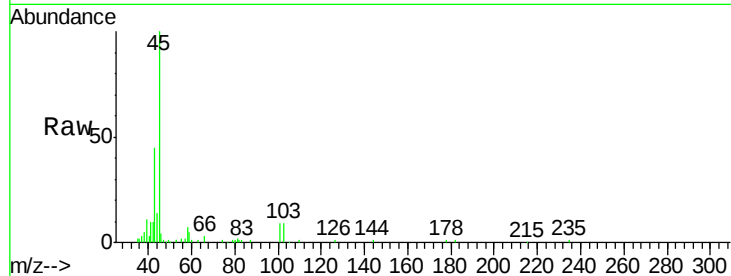
58 8.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#20

Methylene Chloride

Concen: 1.881 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036867.D

Acq: 27 Apr 2021 21:11

Tgt Ion: 84 Resp: 121112

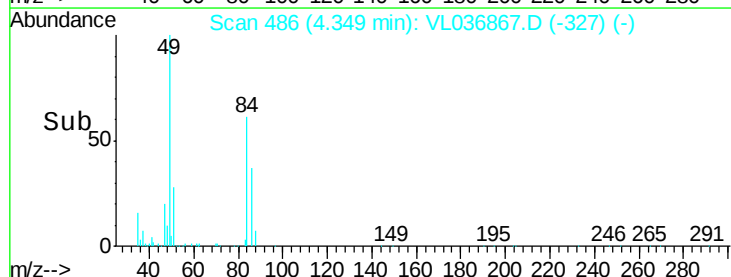
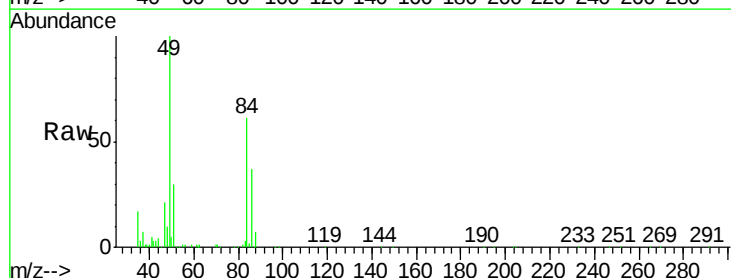
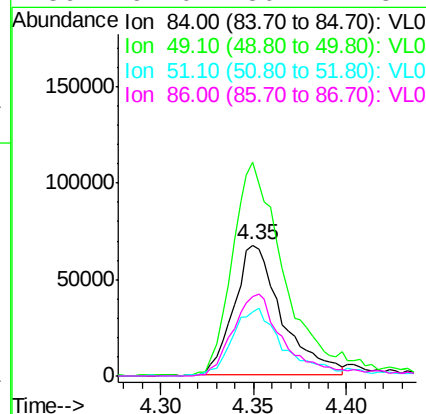
Ion Ratio Lower Upper

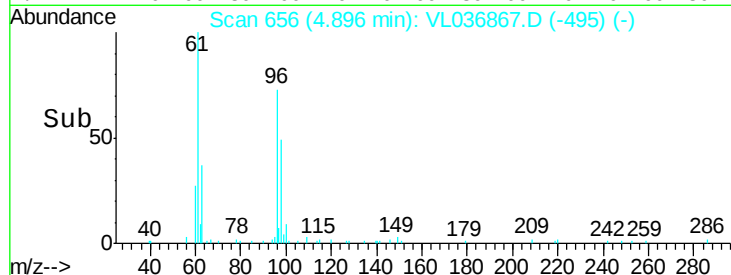
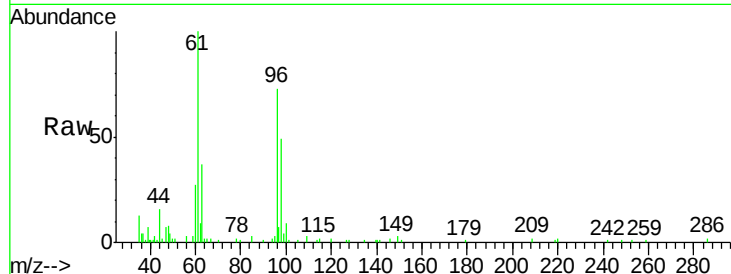
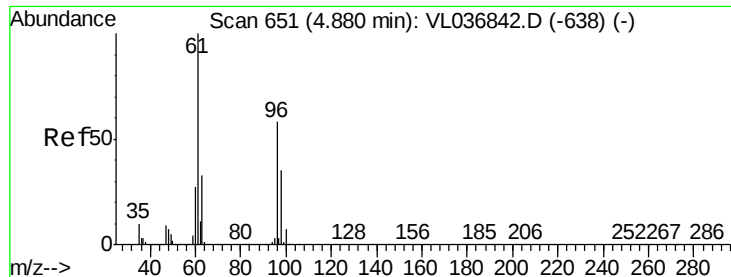
84 100

49 163.3 135.4 203.0

51 48.5 39.3 58.9

86 61.0 50.2 75.2





#22

trans-1,2-Dichloroethene

Concen: 0.448 ppbv m

RT: 4.90

Instrument: MSVOA_L

Delta R.T.

ClientSampleId:

Lab File: OFFSITE-DDC-EFFLUENT

Acq: 27 Apr 2021 21:11

Tot Ion:

Ion Ratio

96 100

61 137.

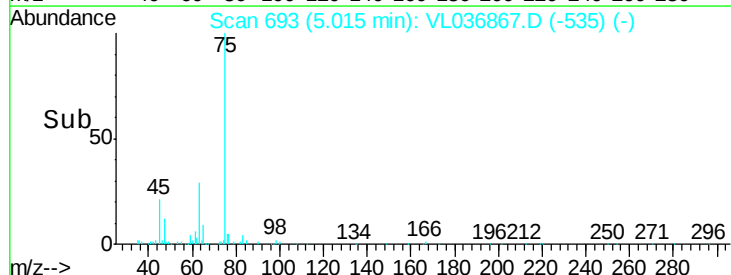
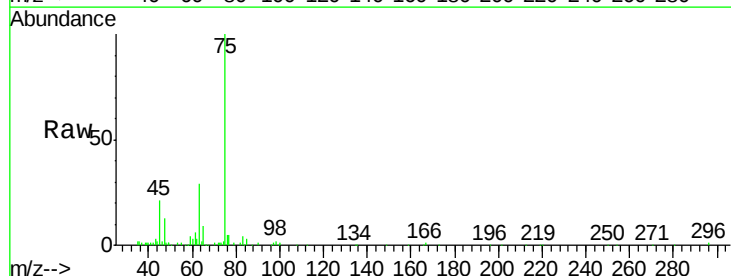
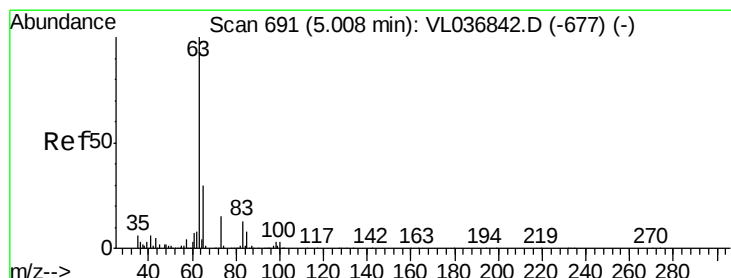
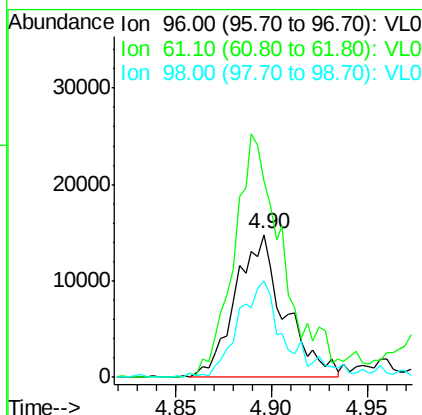
98 67.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#24

1,1-Dichloroethane

Concen: 0.388 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL036867.D

Acq: 27 Apr 2021 21:11

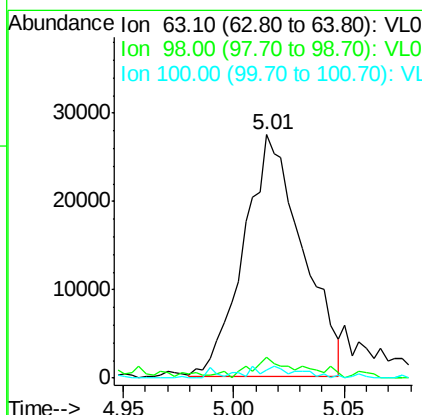
Tgt Ion: 63 Resp: 50496

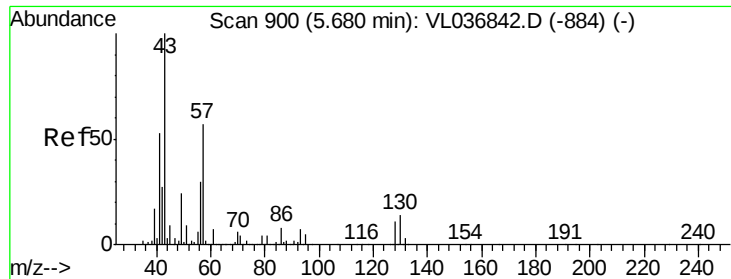
Ion Ratio Lower Upper

63 100

98 6.5 1.7 5.1#

100 3.2 1.3 3.8



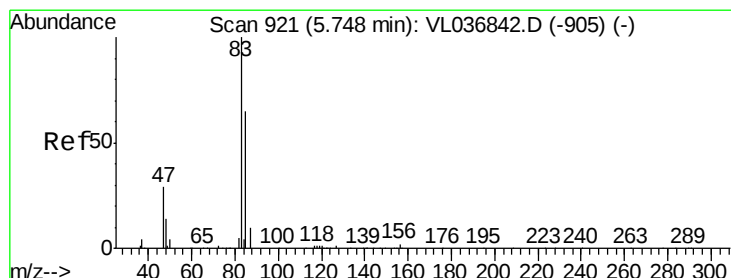
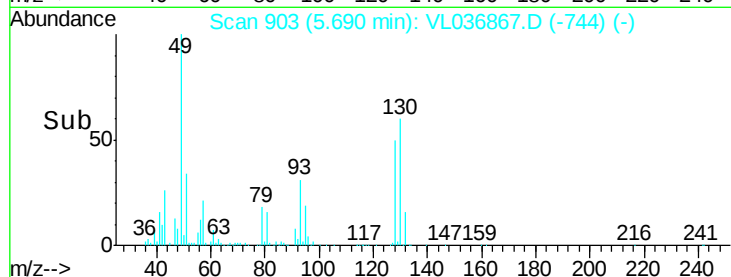
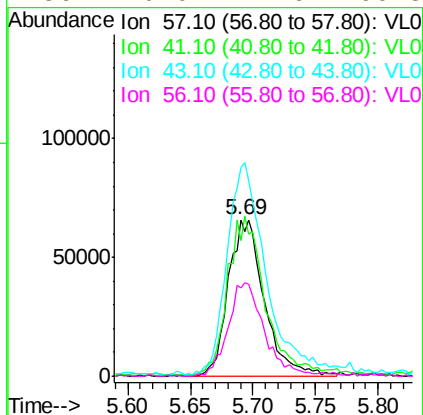
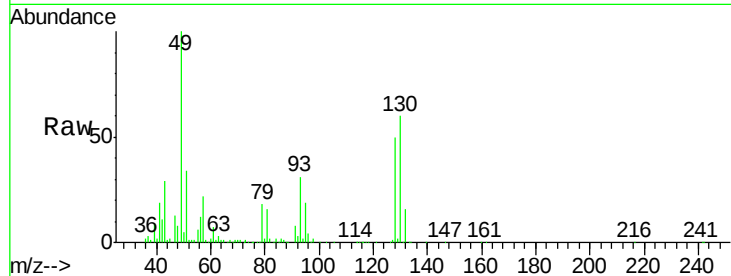


#26
Hexane
Concen: 0.857 ppbv m
RT: 5.69
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 57 100, 41 0., 43 0., 56 0.0
44.6 66.8#

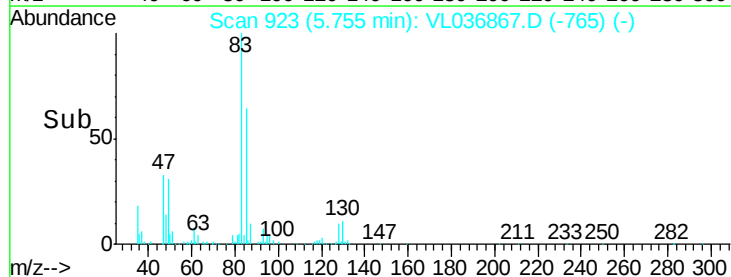
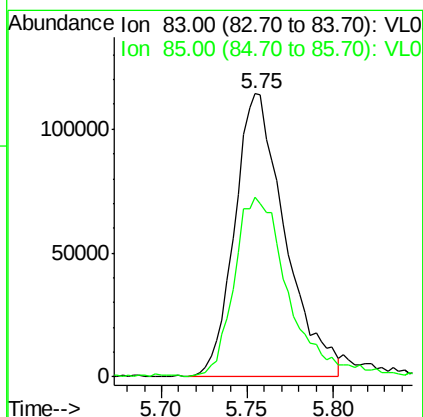
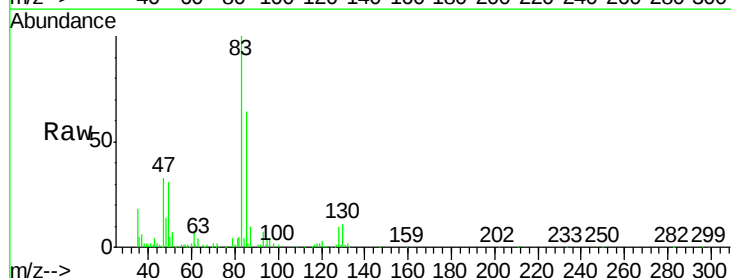
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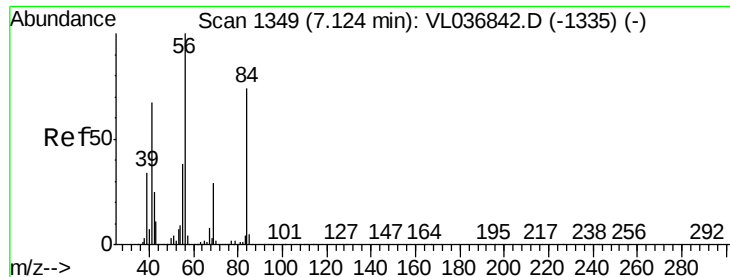
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#29
Chloroform
Concen: 0.968 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.01 min
Lab File: VL036867.D
Acq: 27 Apr 2021 21:11

Tgt Ion: 83 Resp: 232215
Ion Ratio Lower Upper
83 100
85 63.4 52.2 78.4



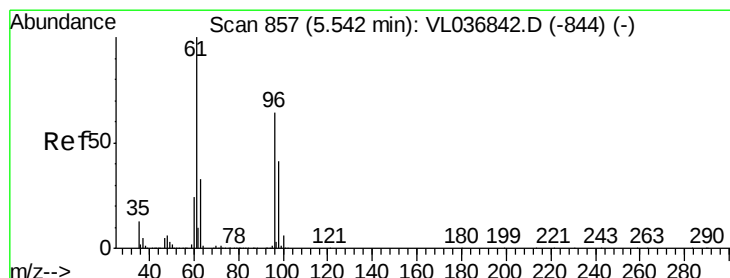
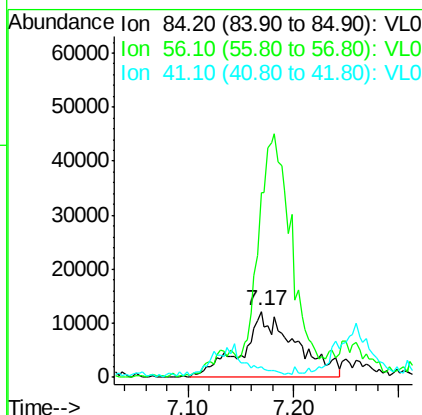
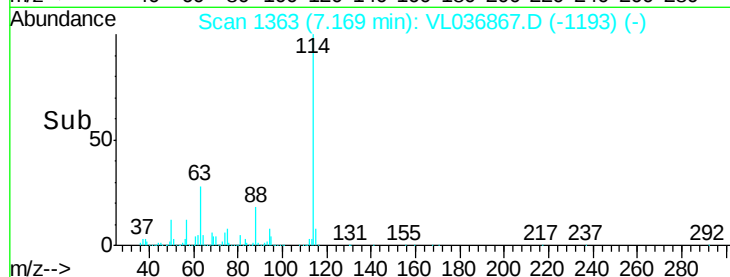
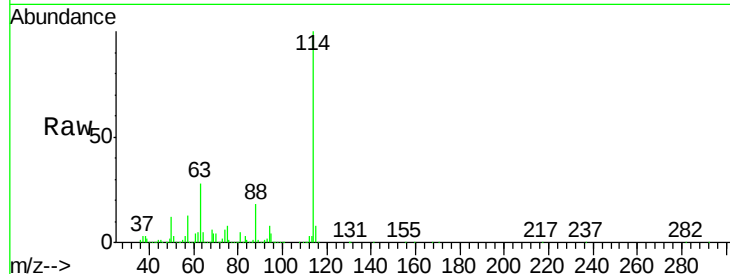


#30
Cvclohexane
Concen: 0.347 ppbv m
RT: 7.17
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:
Ion Ratio
84 100
56 0.
41 33.

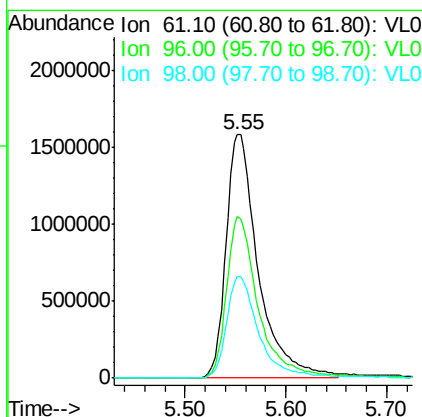
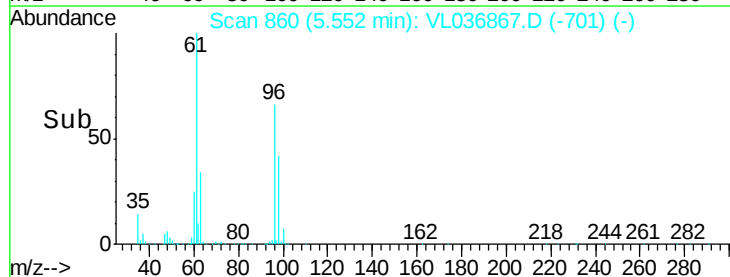
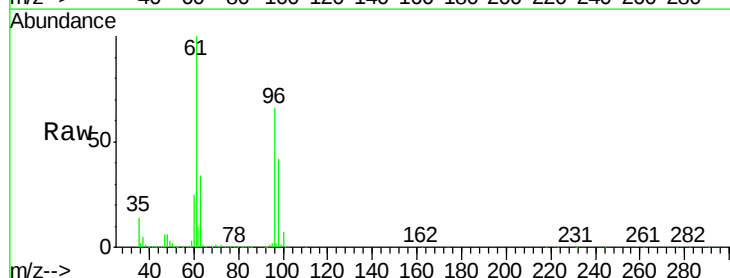
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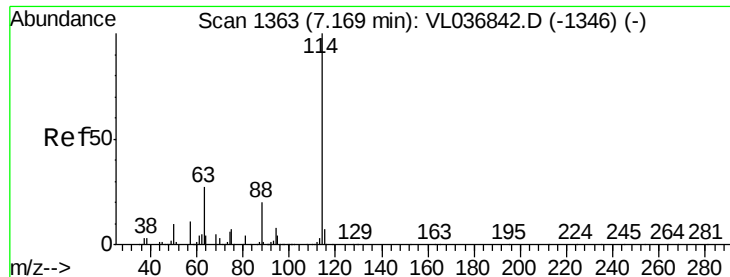
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#31
cis-1,2-Dichloroethene
Concen: 25.562 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.01 min
Lab File: VL036867.D
Acq: 27 Apr 2021 21:11

Tgt Ion: 61 Resp: 3530508
Ion Ratio Lower Upper
61 100
96 66.2 51.0 76.6
98 41.9 32.7 49.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18

Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 27 Apr 2021 21:11

Tot Ion: 1

Ion Ratio

114 100

63 27.

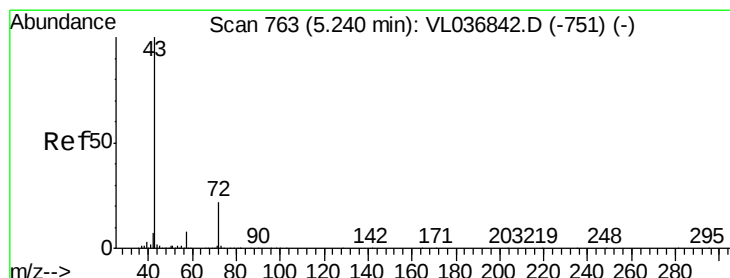
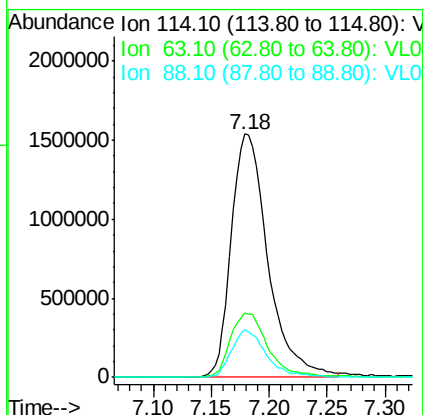
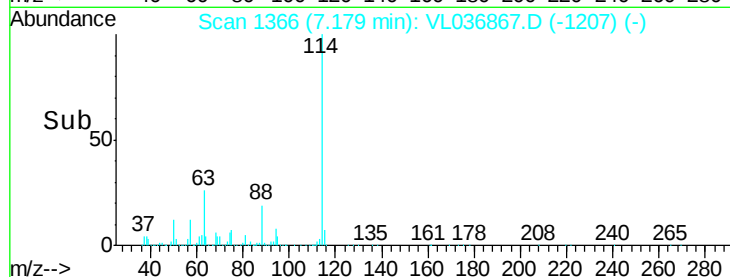
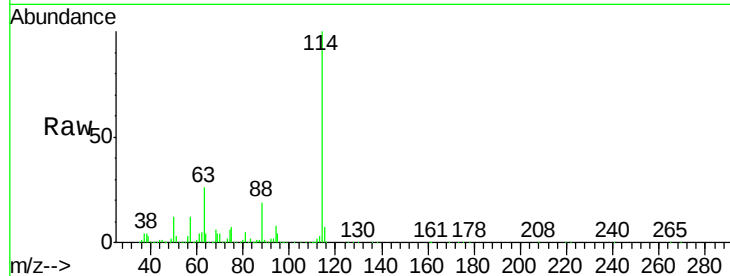
88 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#34

2-Butanone

Concen: 0.906 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.03 min

Lab File: VL036867.D

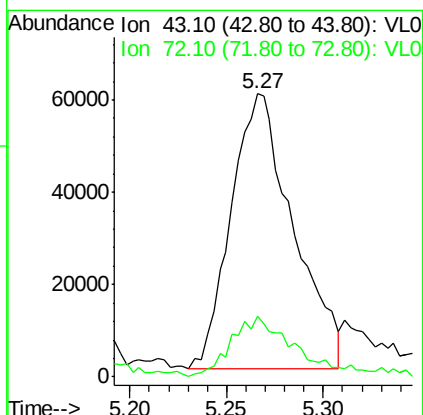
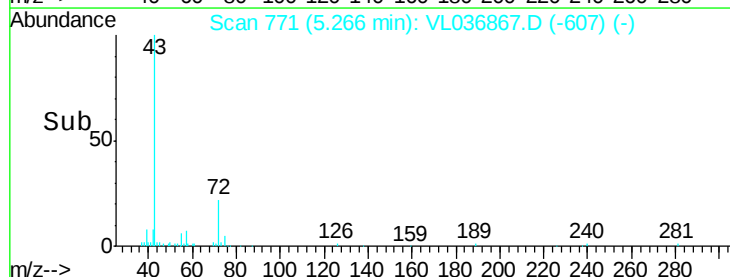
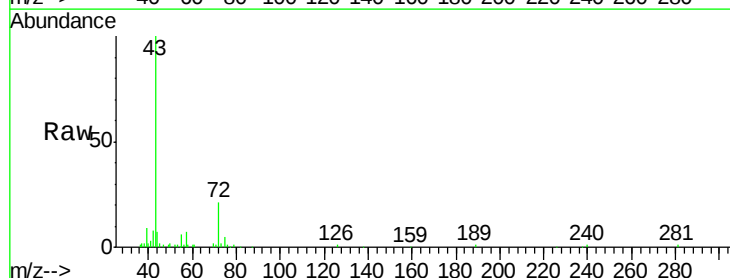
Acq: 27 Apr 2021 21:11

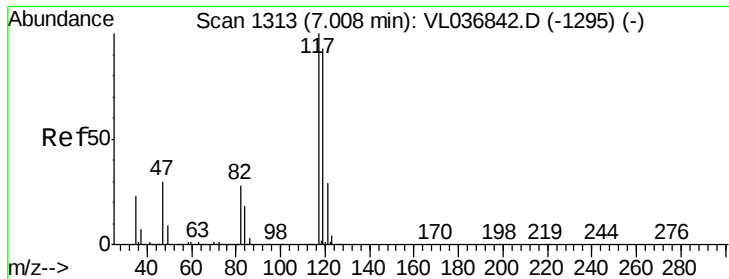
Tgt Ion: 43 Resp: 133869

Ion Ratio Lower Upper

43 100

72 22.4 17.6 26.4





#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 7.03

Delta R.T. MSVOA_L

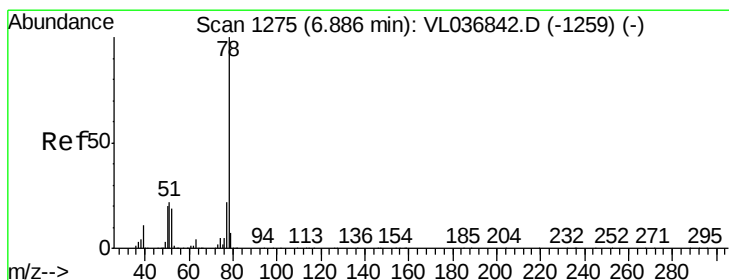
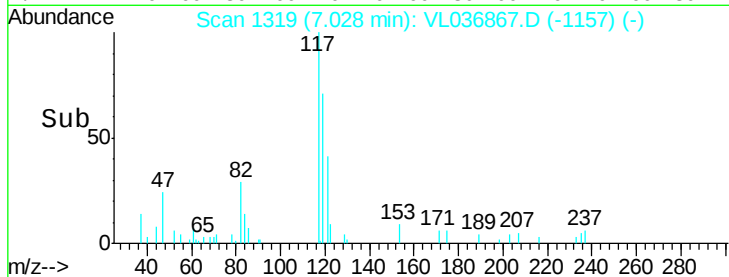
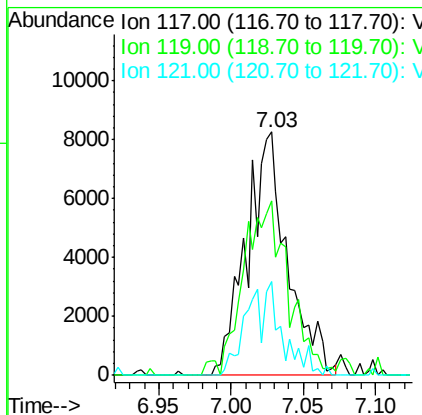
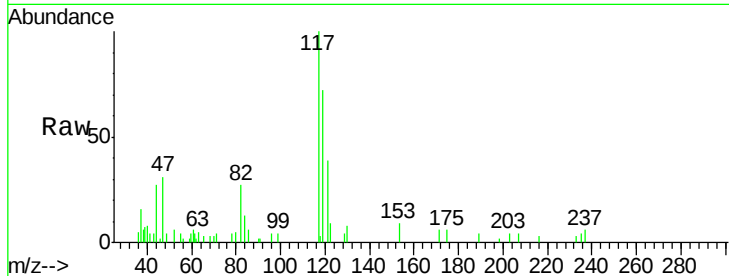
Lab File: ClientSampleId:

Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:1
Ion Rati
117 100
119 71.
121 38.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#36

Benzene

Concen: 0.214 ppbv

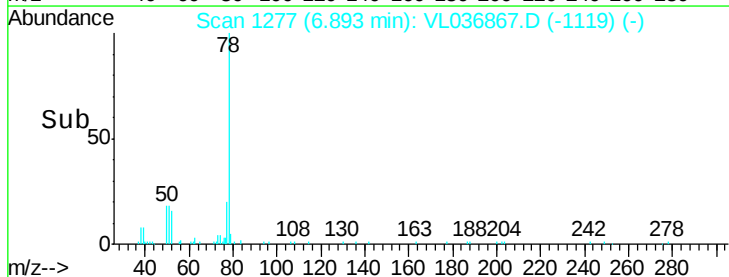
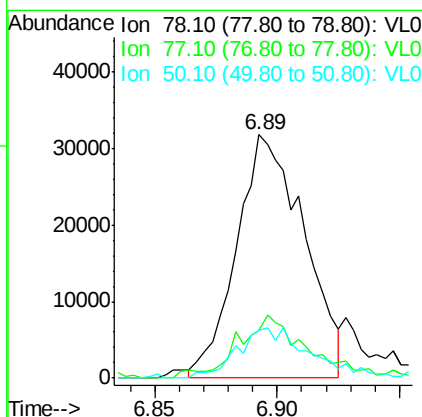
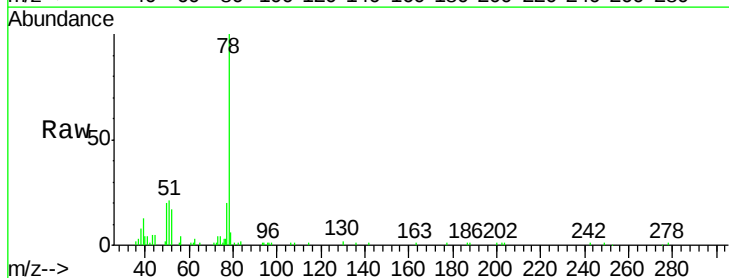
RT: 6.89 min Scan# 1277

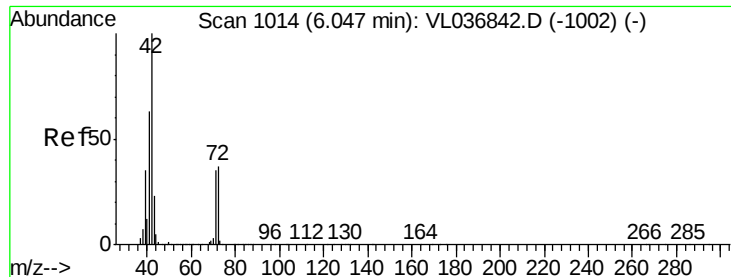
Delta R.T. 0.01 min

Lab File: VL036867.D

Acq: 27 Apr 2021 21:11

Tgt Ion: 78 Resp: 60874
Ion Ratio Lower Upper
78 100
77 16.6 17.6 26.4#
50 20.2 16.3 24.5





#41

Tetrahydrofuran

Concen: 0.404 ppbv m

RT: 6.08 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:

Ion Ratio

42 100

72 38.

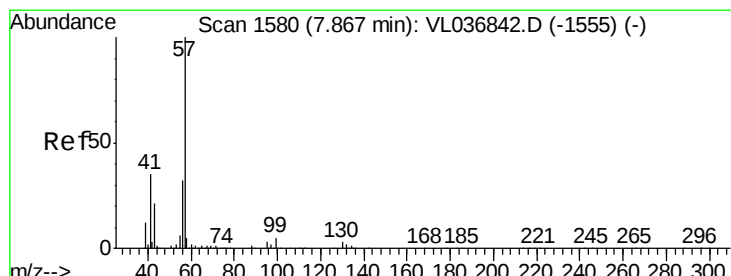
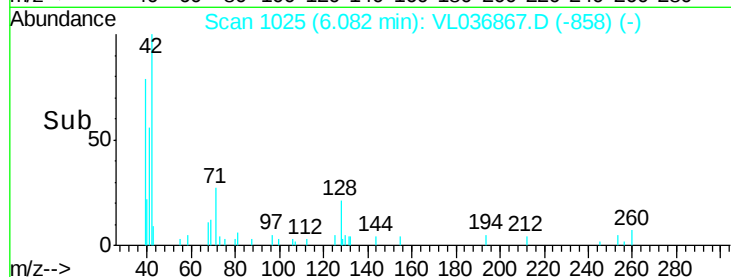
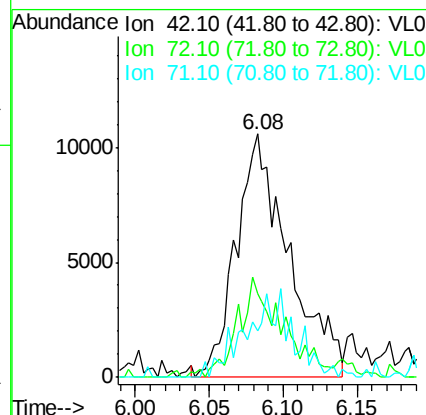
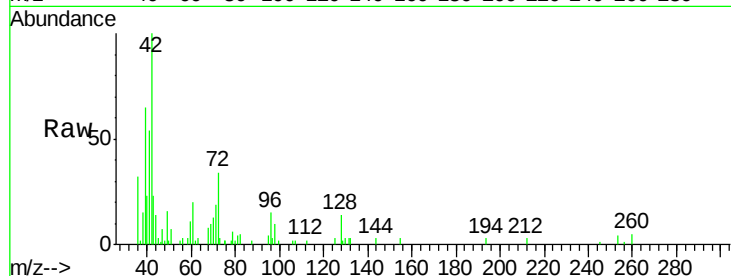
71 0.

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#44

2,2,4-Trimethylpentane

Concen: 0.129 ppbv m

RT: 7.88 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VL036867.D

Acq: 27 Apr 2021 21:11

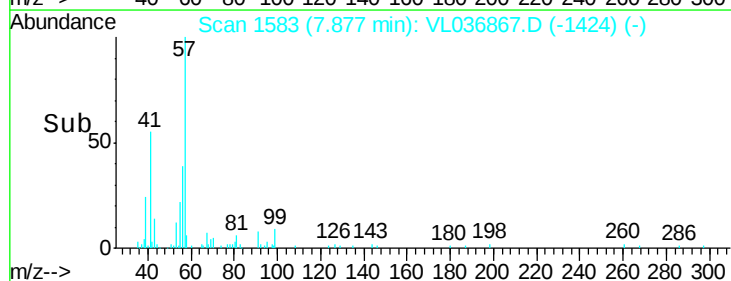
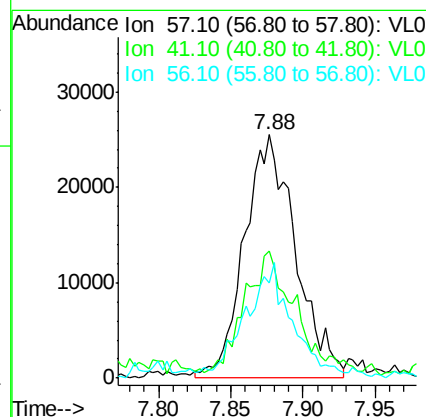
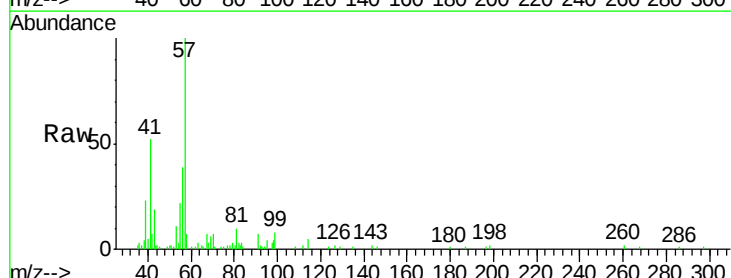
Tgt Ion: 57 Resp: 62785

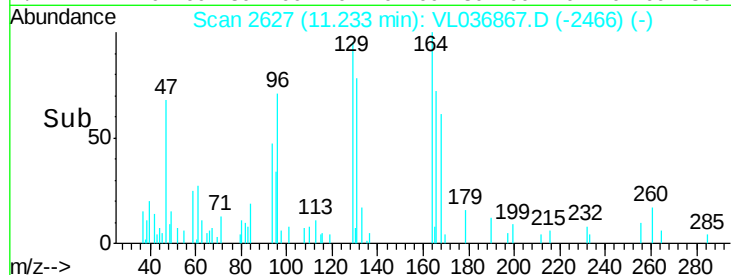
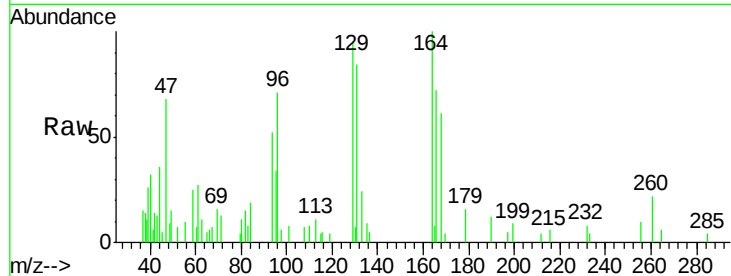
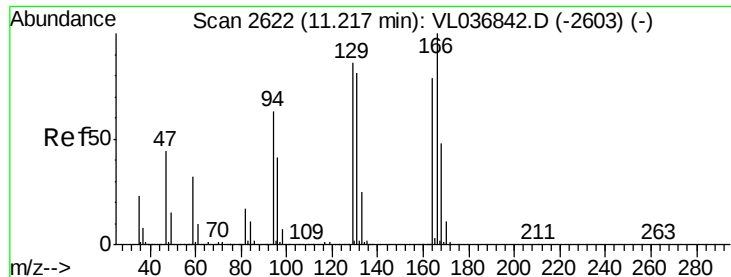
Ion Ratio Lower Upper

57 100

41 55.1 28.2 42.4#

56 45.7 25.9 38.9#





#52

Tetrachloroethene

Concen: 0.070 ppbv m

RT: 11.23

Delta R.T. MSVOA_L

Lab File:

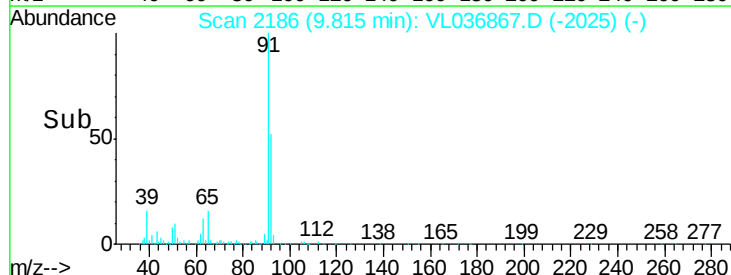
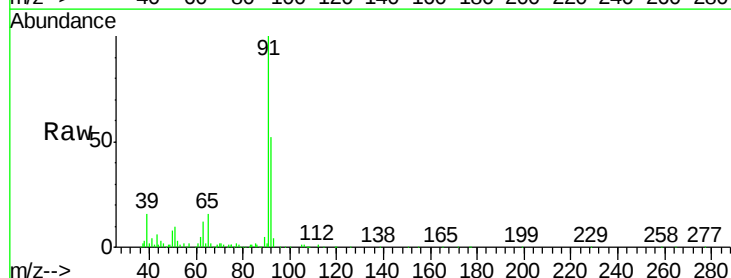
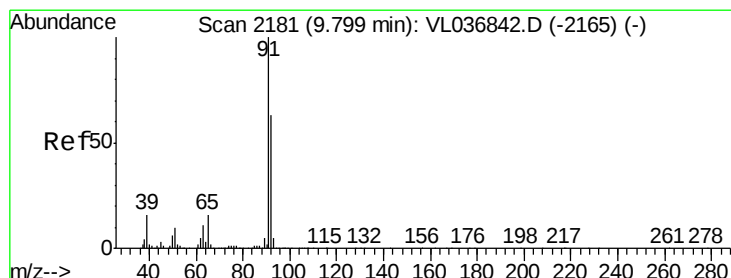
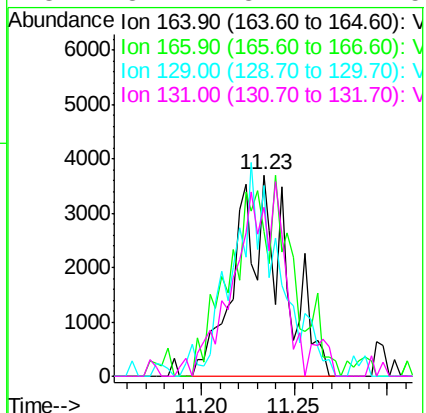
Acq: 27 Apr 2021 21:11

ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion: 1
Ion Ratio
164 100
166 71.
129 95.
131 84.1 81.7 122.5

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Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#53

Toluene

Concen: 1.076 ppbv

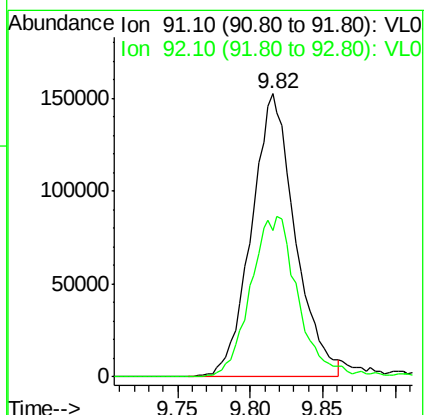
RT: 9.82 min Scan# 2186

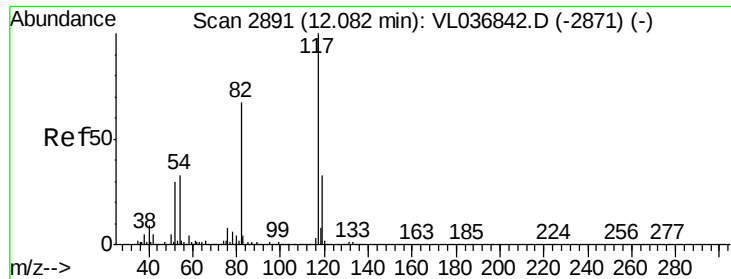
Delta R.T. 0.02 min

Lab File: VL036867.D

Acq: 27 Apr 2021 21:11

Tgt Ion: 91 Resp: 319951
Ion Ratio Lower Upper
91 100
92 62.1 49.0 73.4



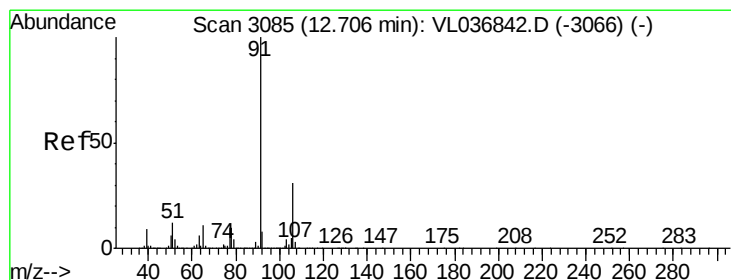
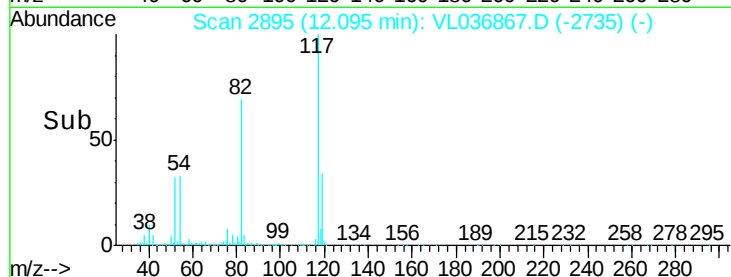
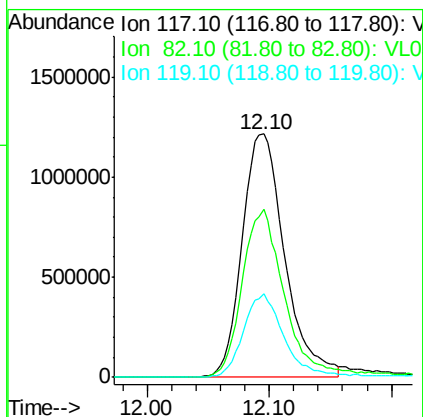
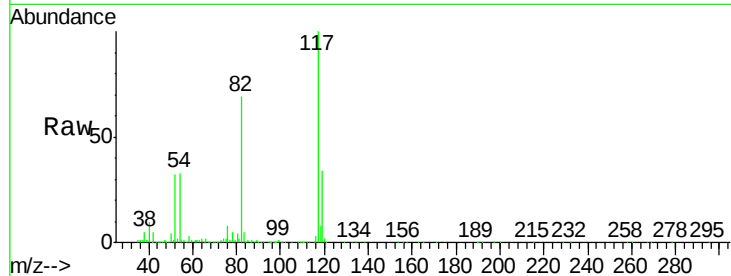


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion: 1
Ion Ratio
117 100
82 71.
119 33.

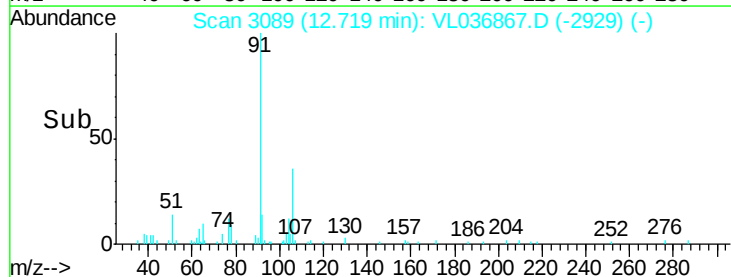
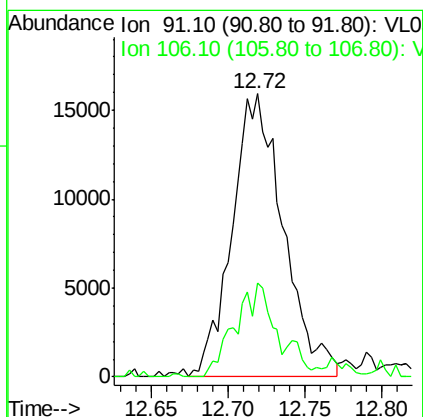
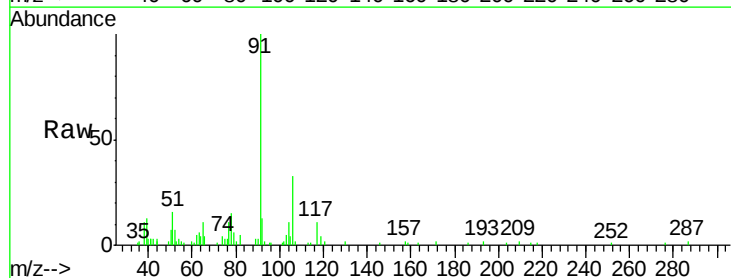
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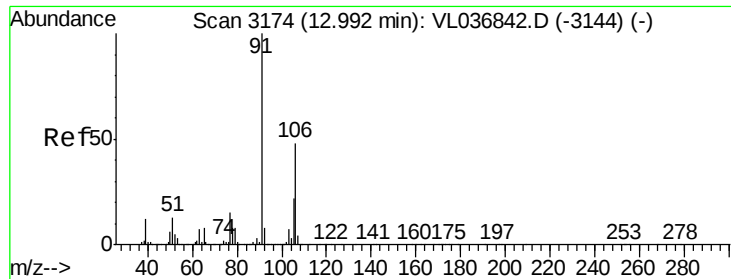
Reviewed By :Semsettin Yesilyurt 04/28/2021
Supervised By :Mahesh Dadoda 04/29/2021



#58
Ethyl Benzene
Concen: 0.099 ppbv m
RT: 12.72 min Scan# 3089
Delta R.T. 0.01 min
Lab File: VL036867.D
Acq: 27 Apr 2021 21:11

Tgt Ion: 91 Resp: 36977
Ion Ratio Lower Upper
91 100
106 33.1 25.1 37.7





#59

m/p-Xylene

Concen: 0.248 ppbv m

RT: 12.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 21:11 OFFSITE-DDC-EFFLUENT

Tot Ion:

Ion Ratio

91 100

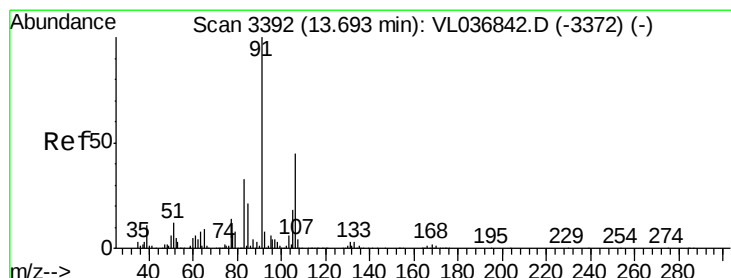
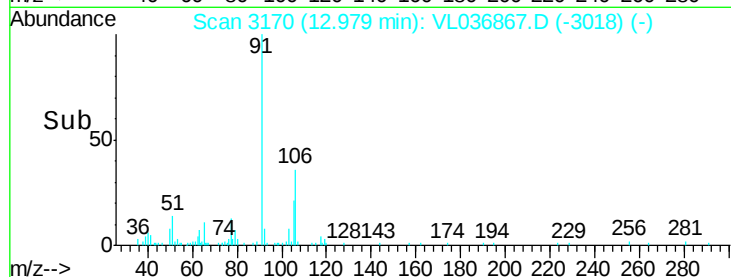
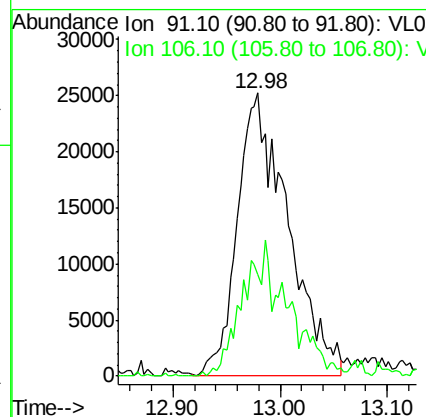
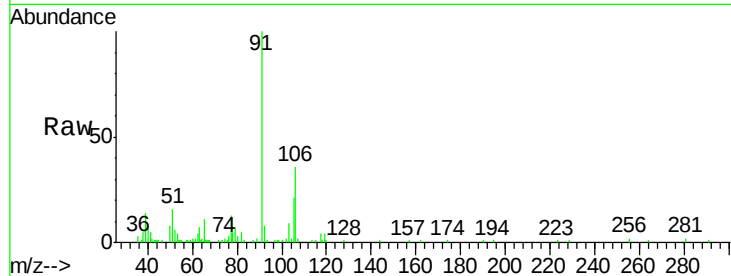
106 0.

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021



#60

o-Xylene

Concen: 0.106 ppbv m

RT: 13.70 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VL036867.D

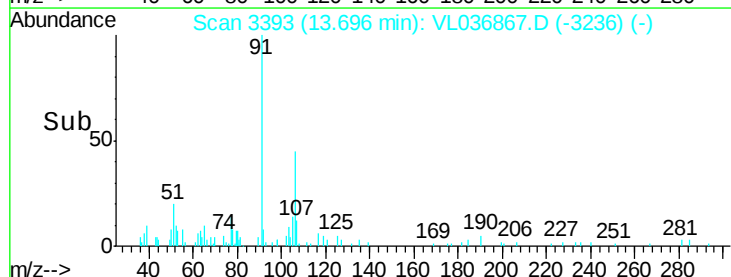
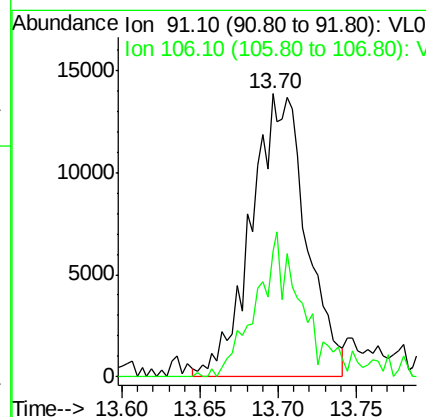
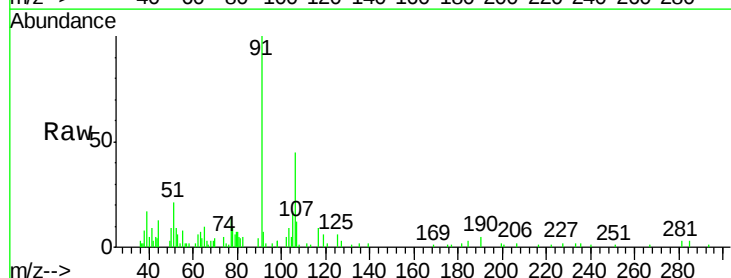
Acq: 27 Apr 2021 21:11

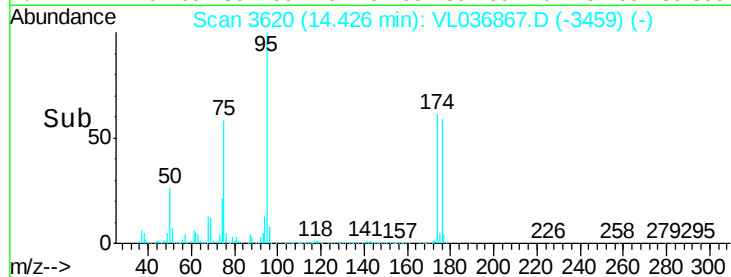
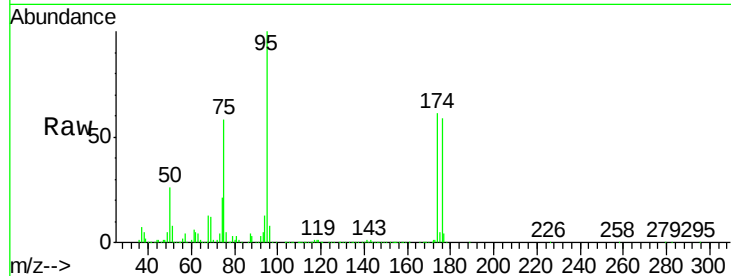
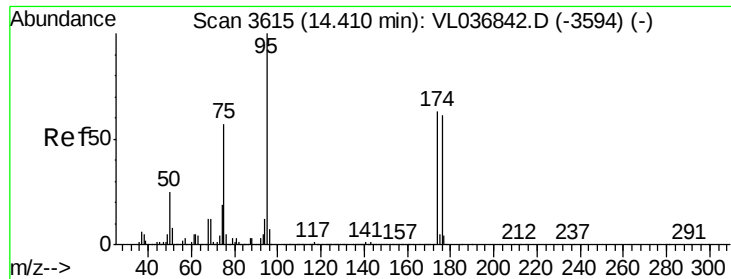
Tgt Ion: 91 Resp: 33997

Ion Ratio Lower Upper

91 100

106 0.0 22.6 67.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.490 ppbv

RT: 14.43

Delta R.T: MSVOA_L

Lab File:

Acq: 27 Apr 2021

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion:

Ion Ratio

95 100

174 70.

175 5.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/28/2021

Supervised By :Mahesh Dadoda 04/29/2021

