

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020322\
 Data File : VL038329.D
 Acq On : 3 Feb 2022 11:22
 Operator : SY/AP
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2022
 Supervised By : Mahesh Dadoda 02/04/2022

Quant Time: Feb 04 08:51:58 2022

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

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

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	880326	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2492465	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2329994m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1841484	10.41	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	1816581	9.694	ppbv	100
3) Chlorodifluoromethane	2.98	51	1536420	8.767	ppbv	99
4) Chloromethane	3.13	50	512956	8.508	ppbv	99
5) Vinyl Chloride	3.25	62	534740	8.886	ppbv	98
6) Bromomethane	3.47	94	305576	9.393	ppbv	96
7) Chloroethane	3.55	64	179094	8.811	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1269999	8.758	ppbv	96
9) Propene	3.01	41	516773	9.058	ppbv	99
10) Heptane	8.10	43	1321771	9.005	ppbv	100
11) Trichlorofluoromethane	3.94	101	1282813	8.787	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	915886	8.299	ppbv	95
13) Ethanol	3.59	45	28559	4.663	ppbv #	1
14) Bromoethene	3.73	108	403965	9.368	ppbv	99
15) Acetone	3.84	43	653720	8.424	ppbv	100
16) 1,3-Butadiene	3.32	39	495739	8.902	ppbv	99
17) tert-Butyl alcohol	4.28	59	759924	8.922	ppbv	99
18) 1,1-Dichloroethene	4.28	96	418003	8.710	ppbv	96
19) Isopropyl Alcohol	3.95	45	423750	8.729	ppbv #	96
20) Methylene Chloride	4.33	84	332599	7.369	ppbv	98
21) Allyl Chloride	4.40	41	635533	9.256	ppbv	100
22) trans-1,2-Dichloroethene	4.87	96	442616	8.926	ppbv	99
23) Vinyl Acetate	5.06	43	1021040	9.049	ppbv	99
24) 1,1-Dichloroethane	5.00	63	869786	8.653	ppbv	100
25) Ethyl Acetate	5.66	43	2096343	9.648	ppbv	100
26) Hexane	5.67	57	954278	9.443	ppbv	99
27) Carbon Disulfide	4.54	76	1024513	8.665	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	943882	9.003	ppbv	99
29) Chloroform	5.74	83	1552785	9.413	ppbv	100
30) Cyclohexane	7.11	84	821965	9.341	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	980626	11.124	ppbv	99
32) 1,1,1-Trichloroethane	6.49	97	1541426	9.355	ppbv	99
34) 2-Butanone	5.23	43	713737	8.757	ppbv	99
35) Carbon Tetrachloride	7.00	117	1593892	9.110	ppbv	98
36) Benzene	6.87	78	2053107	9.313	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1165243	9.227	ppbv	99
38) Trichloroethene	7.82	130	757092	9.219	ppbv	98
39) 1,2-Dichloropropane	7.60	63	810700	9.070	ppbv	98
40) 1,4-Dioxane	7.81	88	202301	9.403	ppbv	70
41) Tetrahydrofuran	6.03	42	526518	9.609	ppbv	99
42) Bromodichloromethane	7.77	83	1719532	9.178	ppbv	99
43) Methyl Methacrylate	8.00	69	776048	9.952	ppbv	98

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Quant Time: Feb 04 08:51:58 2022

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

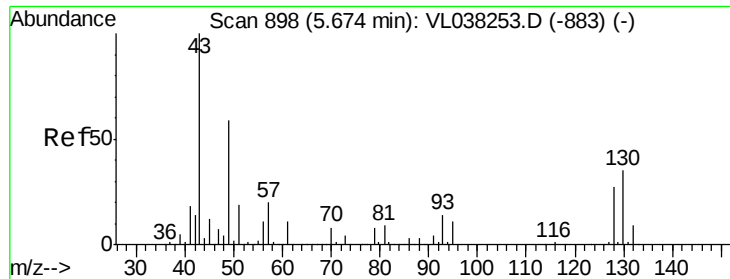
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	3382758	8.706	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	692767	10.934	ppbv	97
46) cis-1,3-Dichloropropene	8.68	75	863610	10.216	ppbv	99
47) 1,1,2-Trichloroethane	9.45	97	810478	9.228	ppbv	97
48) Dibromochloromethane	10.28	129	1397681	9.453	ppbv	99
49) Bromoform	13.02	173	1057374	9.919	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	1361325	9.362	ppbv	100
51) 2-Hexanone	10.11	43	614312	9.593	ppbv #	96
52) Tetrachloroethene	11.20	164	678963	8.936	ppbv	97
53) Toluene	9.79	91	2325577	9.530	ppbv	98
54) 1,2-Dibromoethane	10.59	107	1210737	9.696	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.10	131	895079	8.777	ppbv	96
57) Chlorobenzene	12.12	112	1652516	8.863	ppbv	98
58) Ethyl Benzene	12.69	91	3064637	8.950	ppbv	99
59) m/p-Xylene	12.97	91	5161359m	17.667	ppbv	
60) o-Xylene	13.67	91	2402121	8.840	ppbv	100
61) Styrene	13.50	104	1282100	10.110	ppbv	99
62) Isopropylbenzene	14.65	105	3224348	8.901	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.65	83	1731731	8.613	ppbv	100
64) n-propylbenzene	15.54	120	835217	9.585	ppbv	98
65) tert-Butylbenzene	16.73	119	2788839	9.348	ppbv	99
66) Benzyl Chloride	16.97	91	158122	11.667	ppbv	96
67) sec-Butylbenzene	17.27	105	3897226	9.390	ppbv	99
69) p-Isopropyltoluene	17.63	119	3137663	9.879	ppbv	100
70) n-Butylbenzene	18.53	91	3127105	10.052	ppbv	100
71) 2-Chlorotoluene	15.43	91	2521904	9.400	ppbv	100
72) 4-Ethyltoluene	15.82	105	2801359	9.859	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	2469935	9.666	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	2553240	9.484	ppbv	93
75) 1,3-Dichlorobenzene	16.97	146	1430159	9.899	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	1373770	9.822	ppbv	98
77) 1,2-Dichlorobenzene	17.79	146	1303713	9.716	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	708553	7.595	ppbv	99
79) Naphthalene	22.17	128	1300718	10.334	ppbv	99
80) Naphthalene,2-methyl-	24.95	142	251491	18.373	ppbv	97
81) 1,2,4-Trichlorobenzene	21.90	180	700994	9.469	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:

Ion Ratio

49 100

128 51.

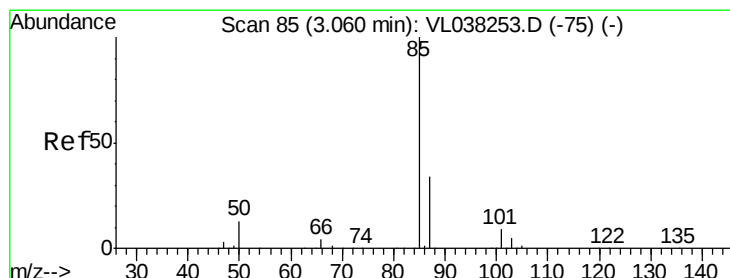
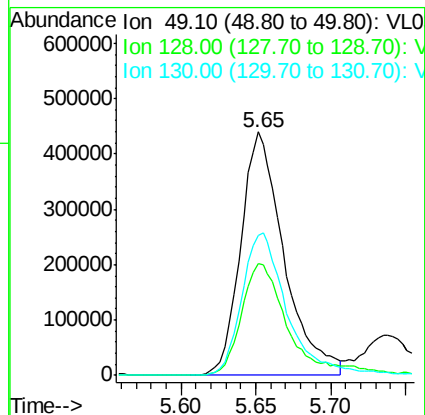
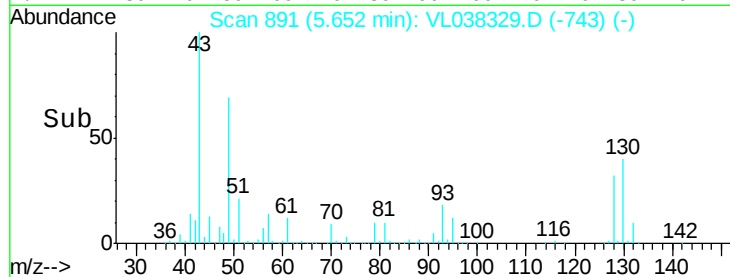
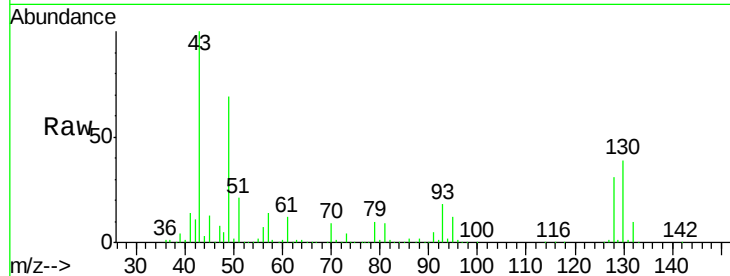
130 62.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#2

Dichlorodifluoromethane

Concen: 9.694 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL038329.D

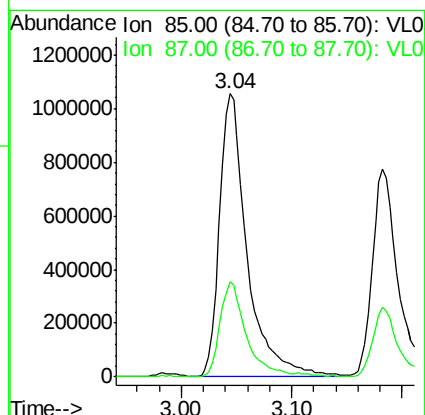
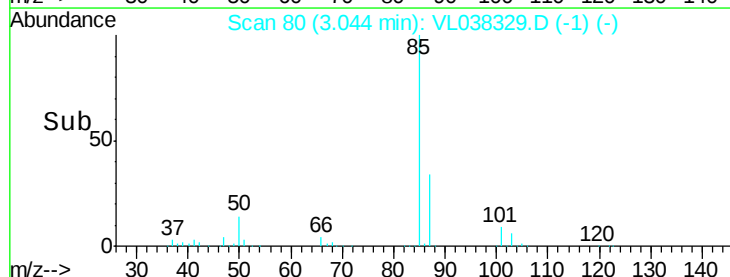
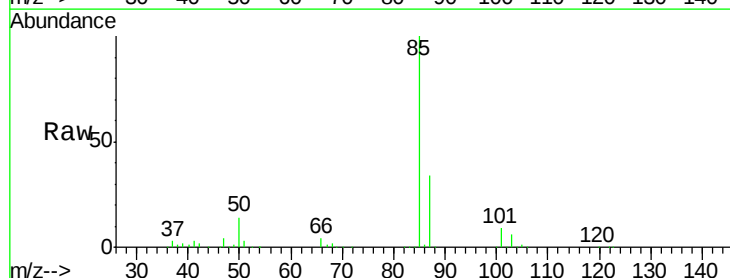
Acq: 3 Feb 2022 11:22

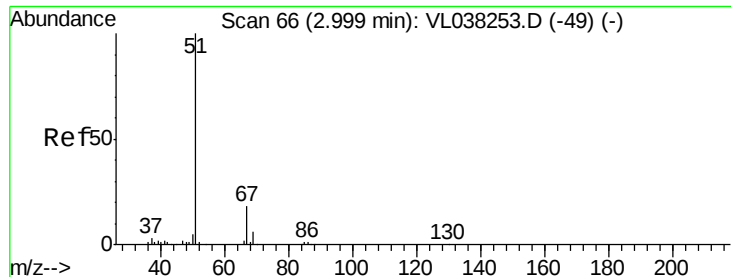
Tgt Ion: 85 Resp: 1816581

Ion Ratio Lower Upper

85 100

87 33.6 27.0 40.6





#3

Chlorodifluoromethane

Concen: 8.767 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:

Ion Ratio

51 100

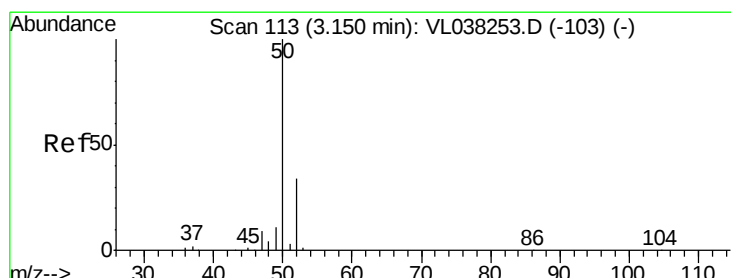
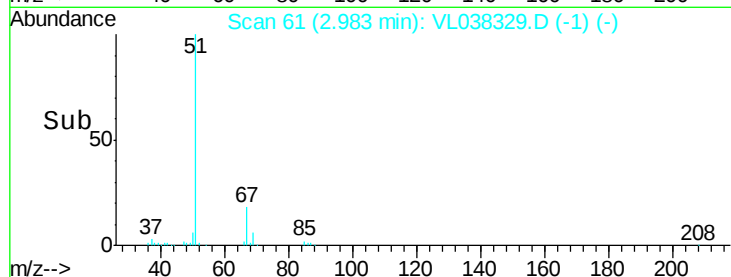
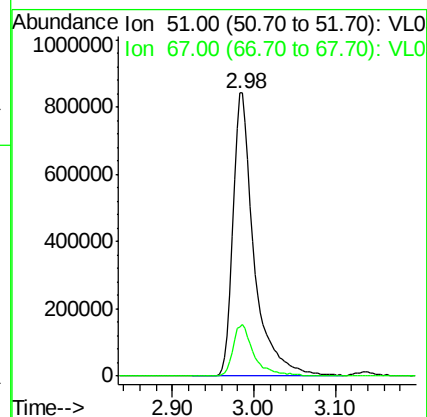
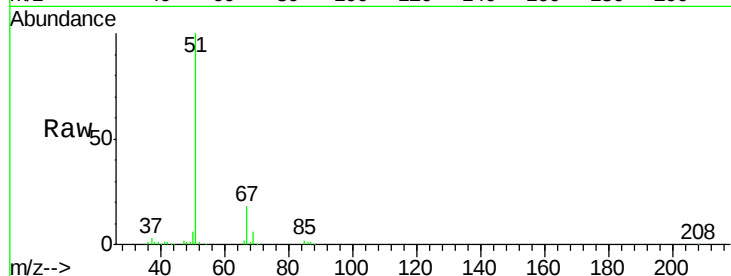
67 18.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#4

Chloromethane

Concen: 8.508 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.02 min

Lab File: VL038329.D

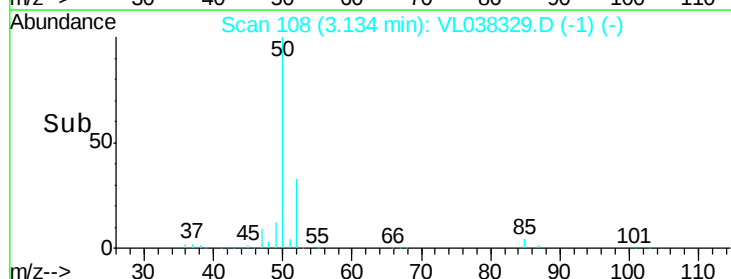
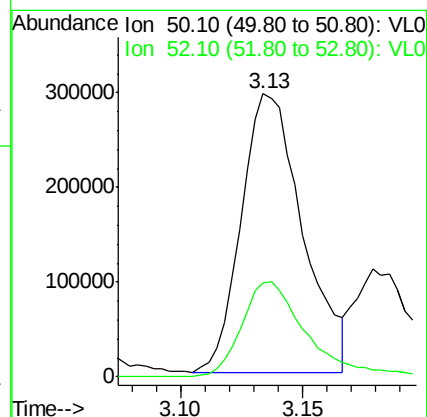
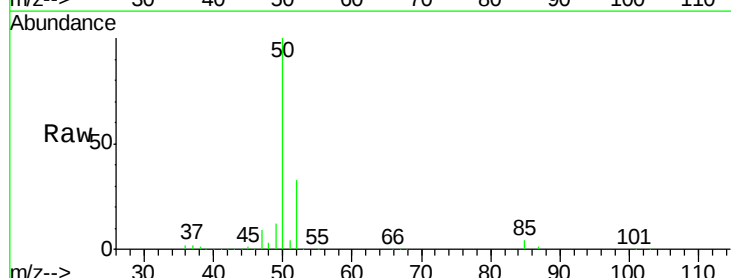
Acq: 3 Feb 2022 11:22

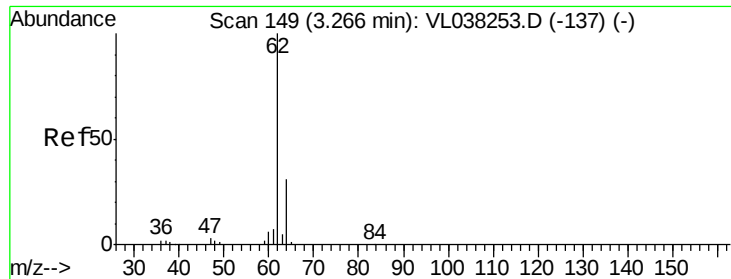
Tgt Ion: 50 Resp: 512956

Ion Ratio Lower Upper

50 100

52 33.5 27.1 40.7





#5

Vinyl Chloride

Concen: 8.886 ppbv

RT: 3.25 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL0203ABS01

Acq: 3 Feb 2022 11:22

Tgt Ion:

Ion Ratio

62 100

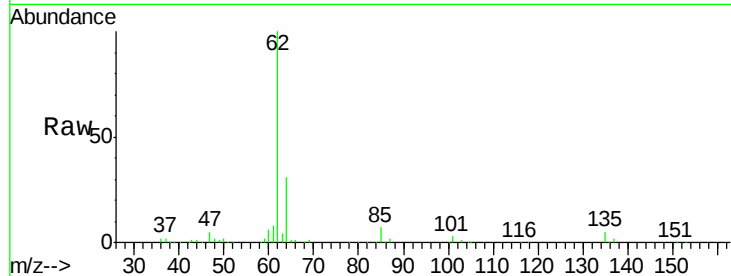
64 31.

Manual Integrations

APPROVED

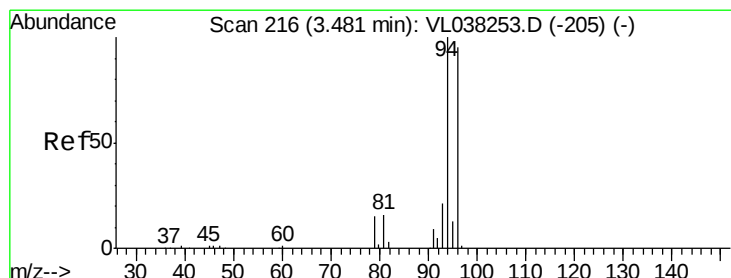
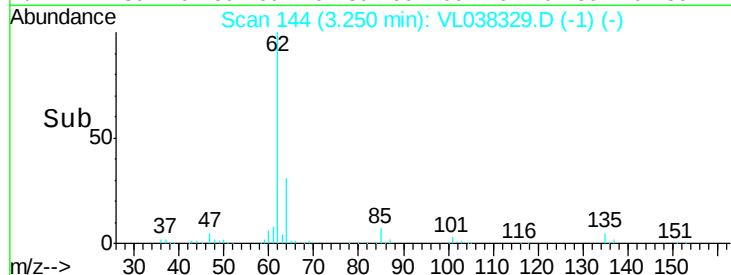
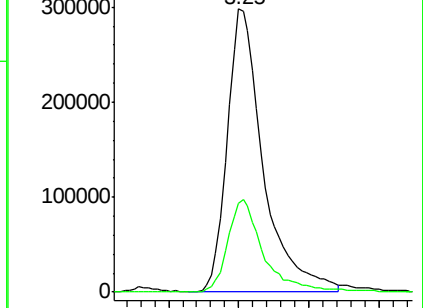
Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.393 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL038329.D

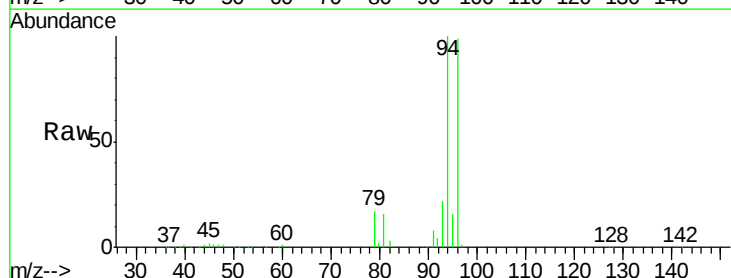
Acq: 3 Feb 2022 11:22

Tgt Ion: 94 Resp: 305576

Ion Ratio Lower Upper

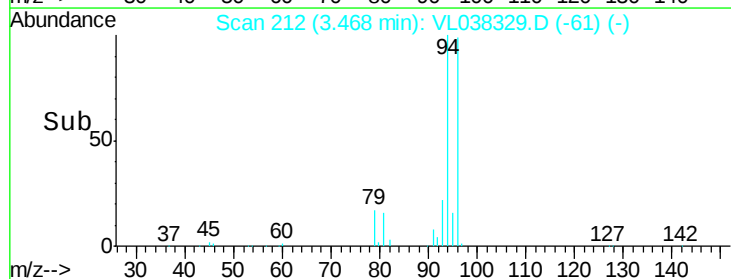
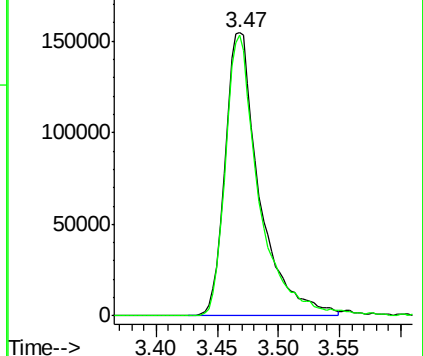
94 100

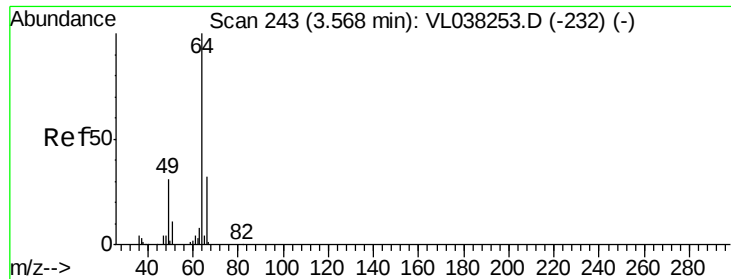
96 99.1 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.811 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:

Ion Ratio

64 100

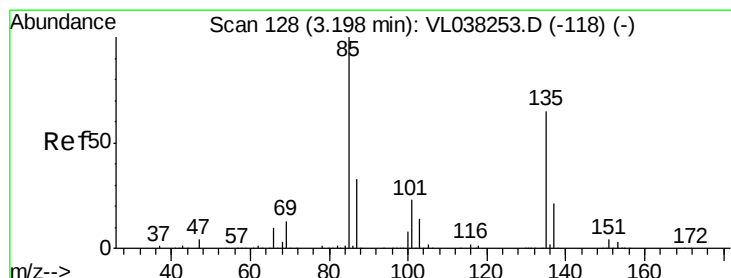
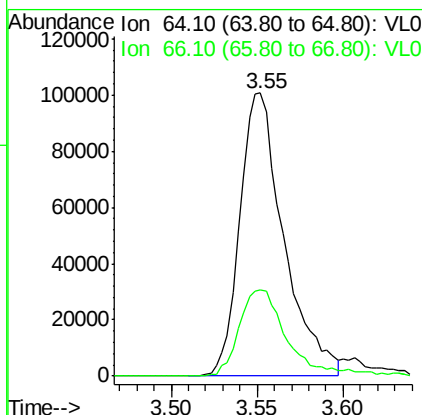
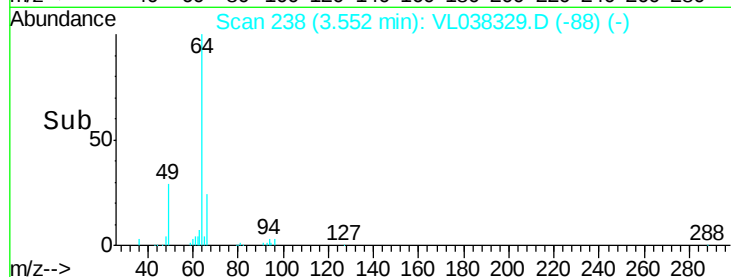
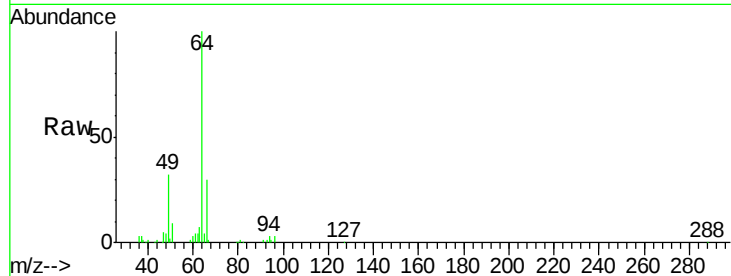
66 30.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#8

Dichlorotetrafluoroethane

Concen: 8.758 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.02 min

Lab File: VL038329.D

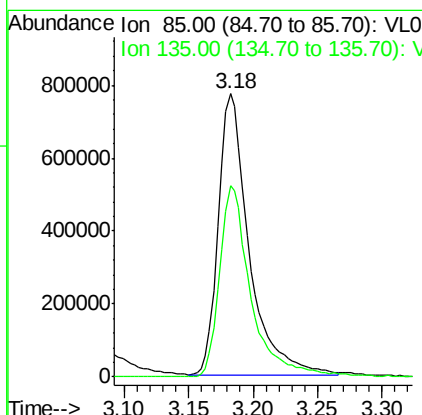
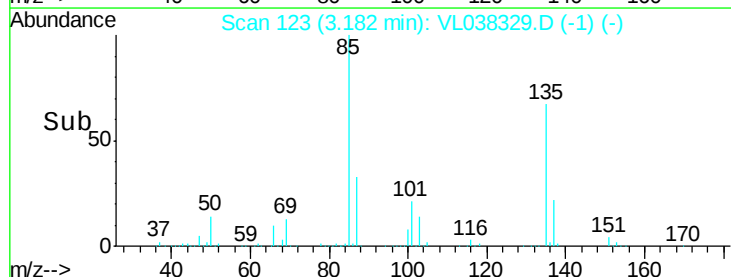
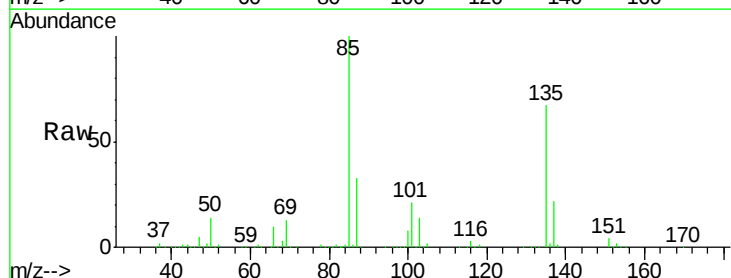
Acq: 3 Feb 2022 11:22

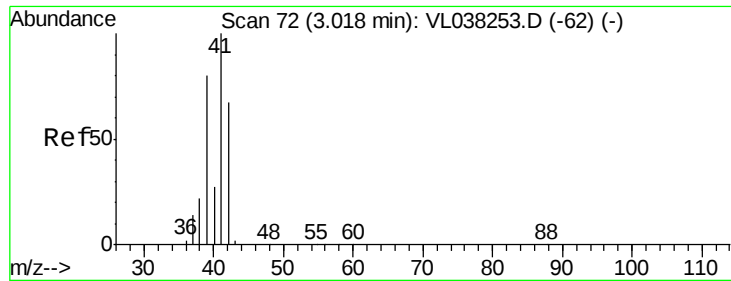
Tgt Ion: 85 Resp: 1269999

Ion Ratio Lower Upper

85 100

135 70.5 53.7 80.5



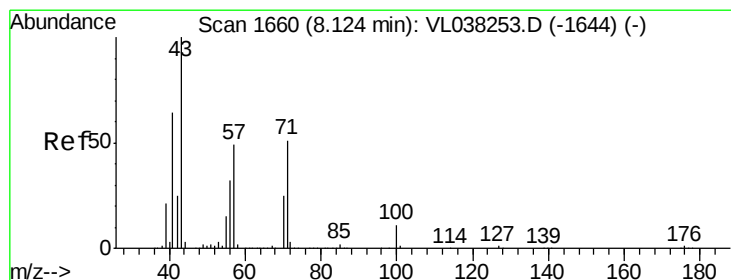
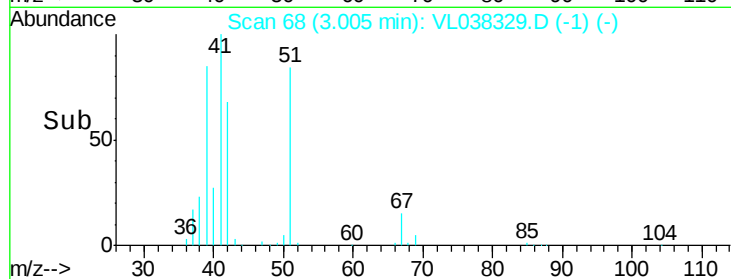
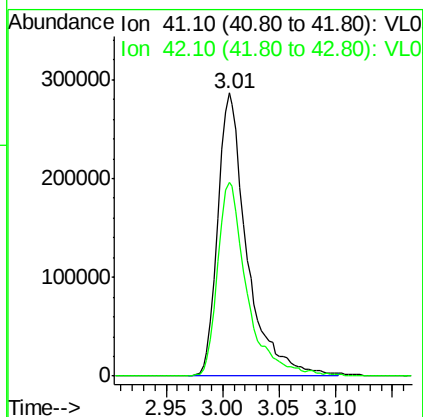
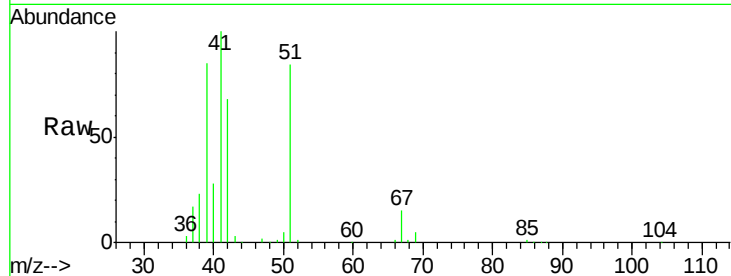


#9
 Propene
 Concen: 9.058 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VL0203ABS01
 Acq: 3 Feb 2022 11:22

Tgt Ion:
 Ion Ratio
 41 100
 42 69.

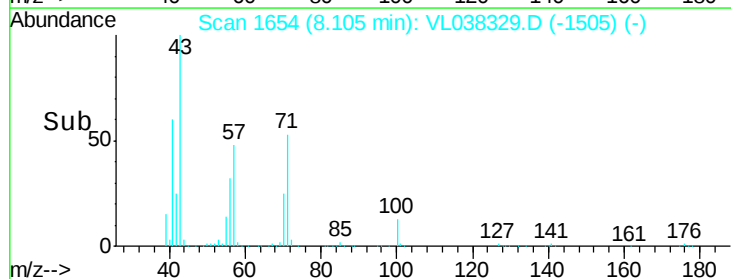
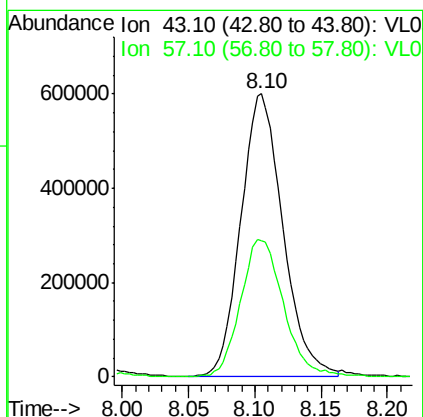
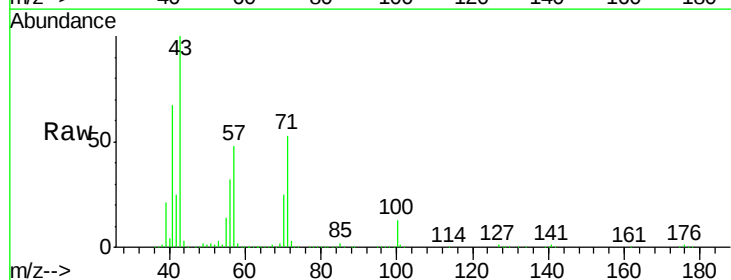
Manual Integrations
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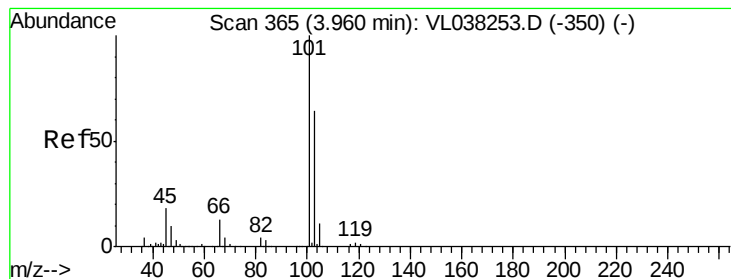
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#10
 Heptane
 Concen: 9.005 ppbv
 RT: 8.10 min Scan# 1654
 Delta R.T. -0.02 min
 Lab File: VL038329.D
 Acq: 3 Feb 2022 11:22

Tgt Ion: 43 Resp: 1321771
 Ion Ratio Lower Upper
 43 100
 57 49.7 39.5 59.3





#11

Trichlorofluoromethane

Concen: 8.787 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:1

Ion Ratio

101 100

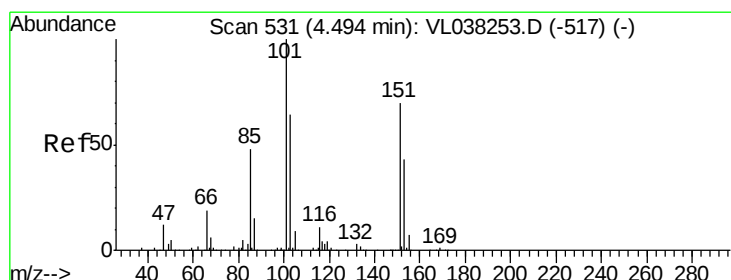
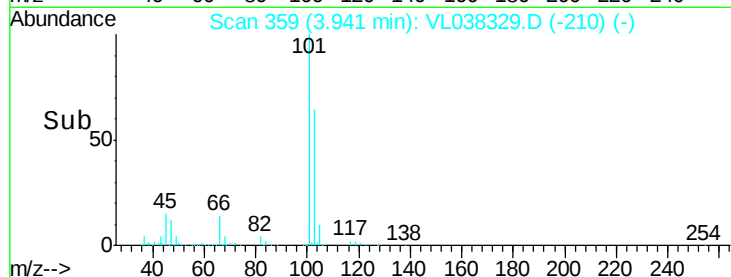
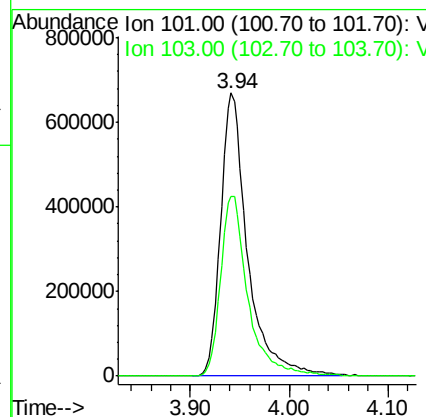
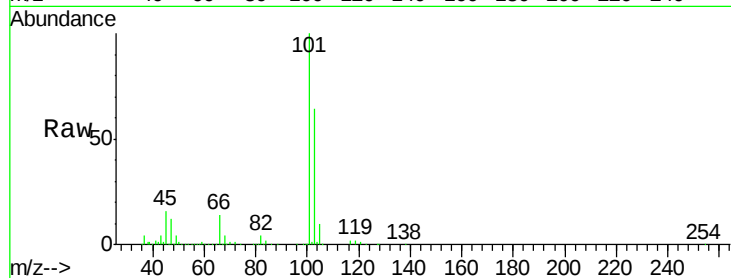
103 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.299 ppbv

RT: 4.47 min Scan# 525

Delta R.T. -0.02 min

Lab File: VL038329.D

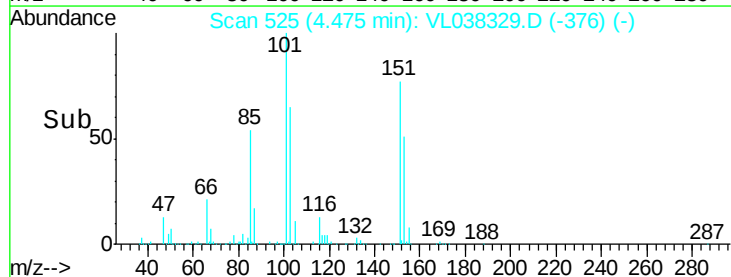
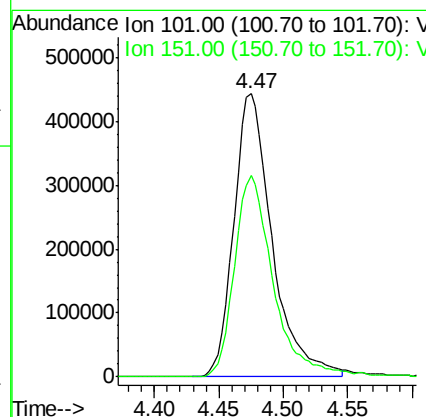
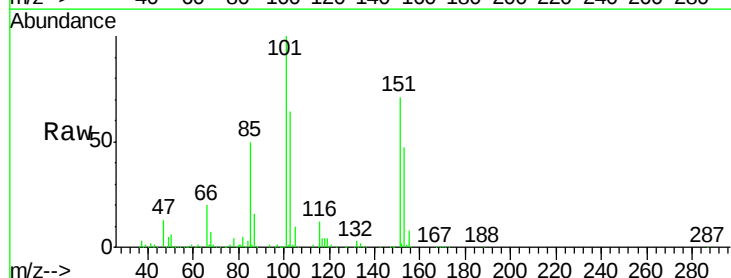
Acq: 3 Feb 2022 11:22

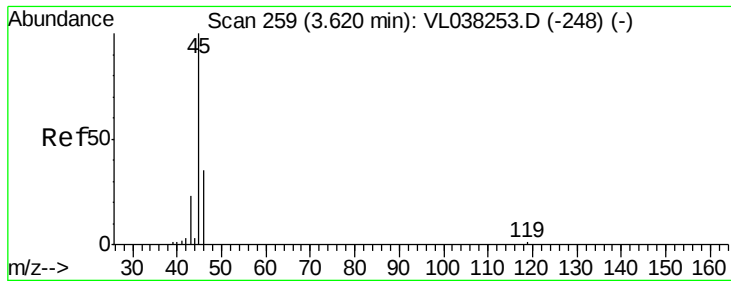
Tgt Ion:101 Resp: 915886

Ion Ratio Lower Upper

101 100

151 72.8 55.3 82.9



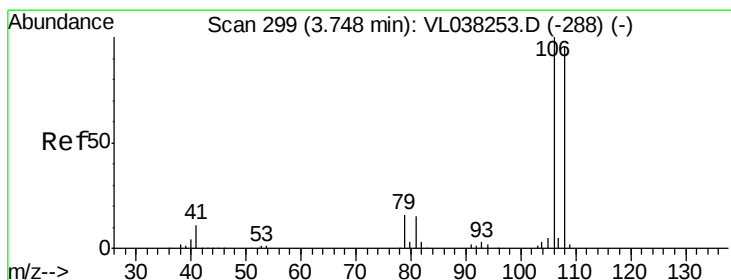
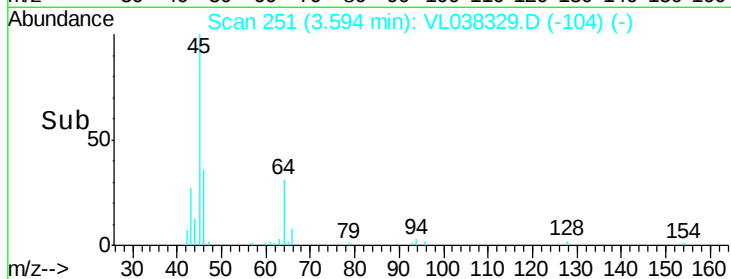
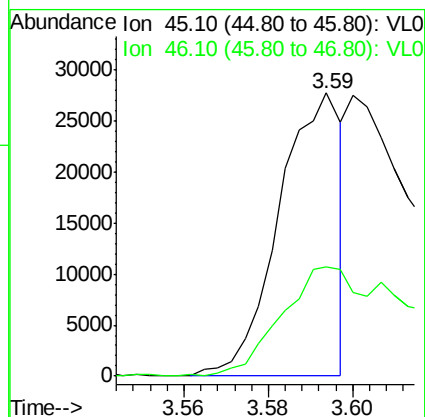
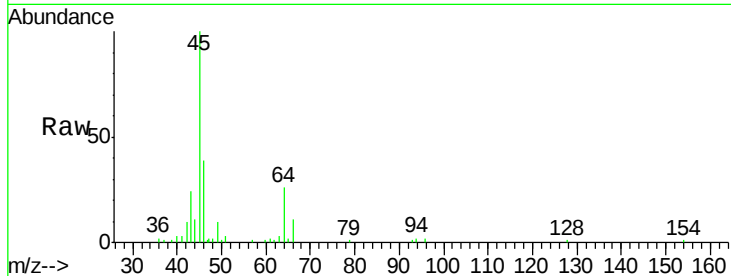


#13
Ethanol
Concen: 4.663 ppbv
RT: 3.59
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
45 100
46 100.

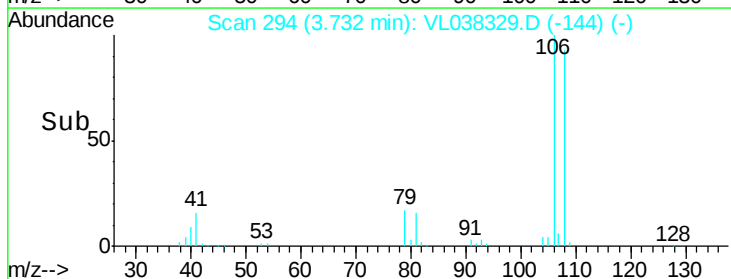
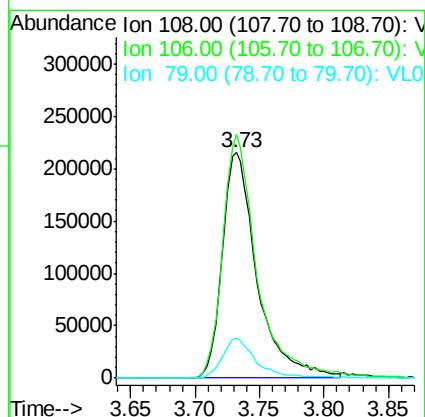
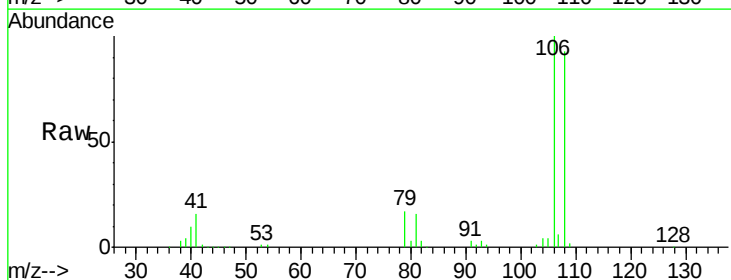
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APPROVED

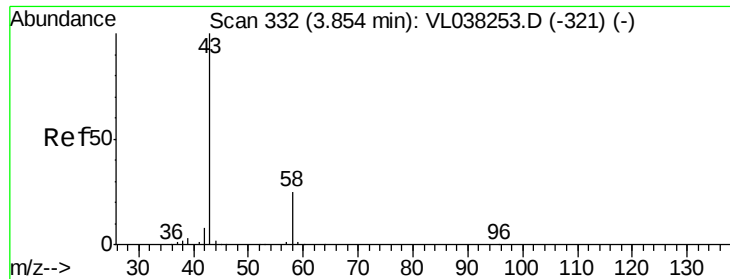
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#14
Bromoethene
Concen: 9.368 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion:108 Resp: 403965
Ion Ratio Lower Upper
108 100
106 107.4 86.4 129.6
79 17.8 14.1 21.1



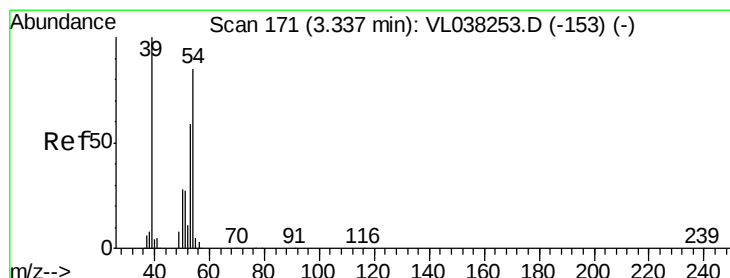
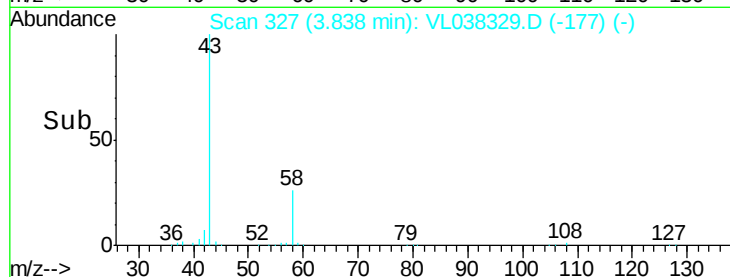
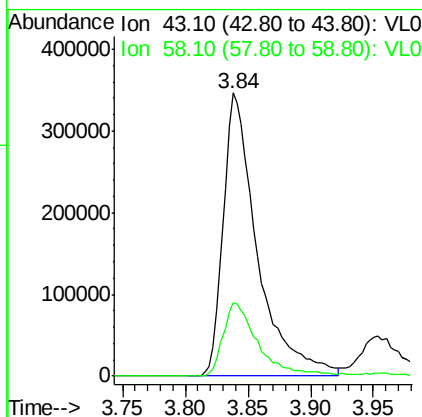
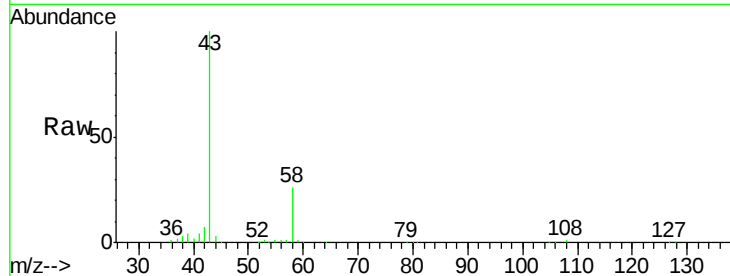


#15
Acetone
Concen: 8.424 ppbv
RT: 3.84
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
43 100
58 26.

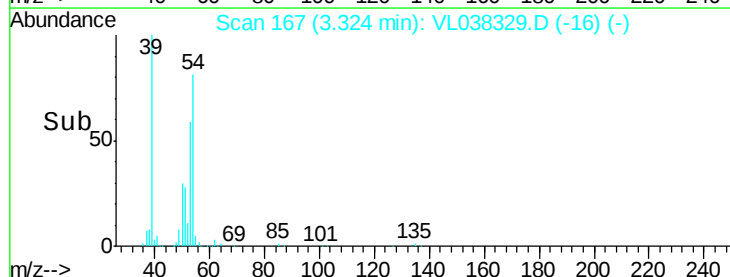
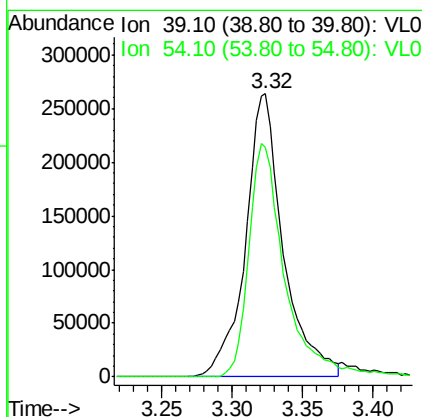
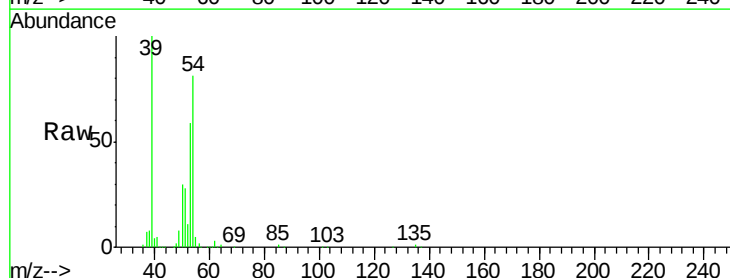
Manual Integrations
APPROVED

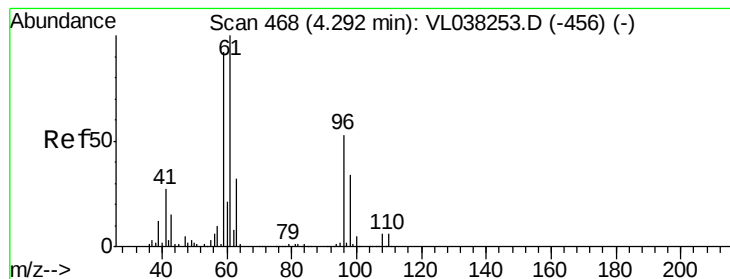
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#16
1,3-Butadiene
Concen: 8.902 ppbv
RT: 3.32 min Scan# 167
Delta R.T. -0.01 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion: 39 Resp: 495739
Ion Ratio Lower Upper
39 100
54 79.6 62.6 94.0





#17

tert-Butyl alcohol

Concen: 8.922 ppbv

RT: 4.28

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 3 Feb 2022 11:22

Tgt Ion:

Ion Ratio

59 100

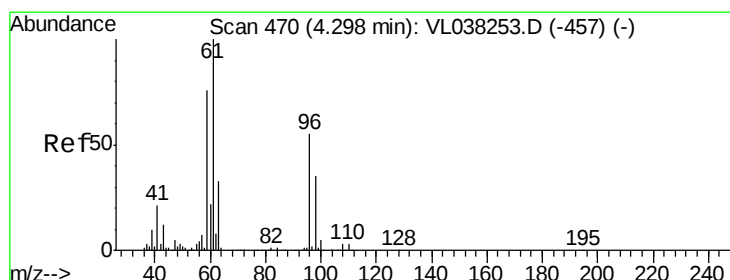
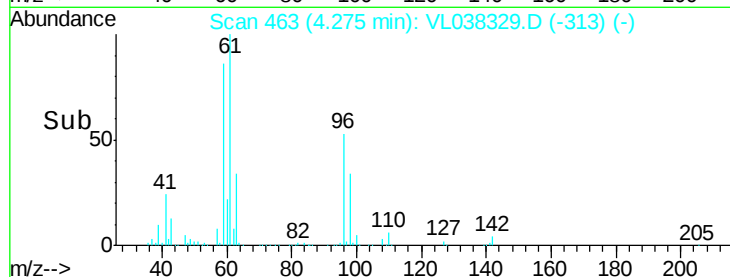
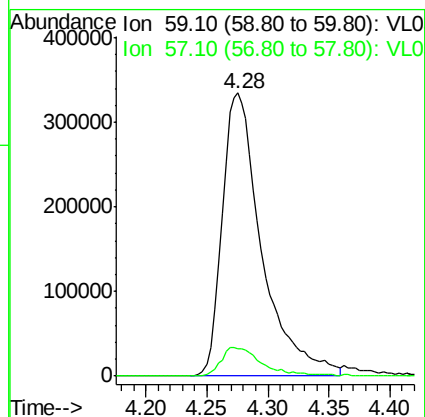
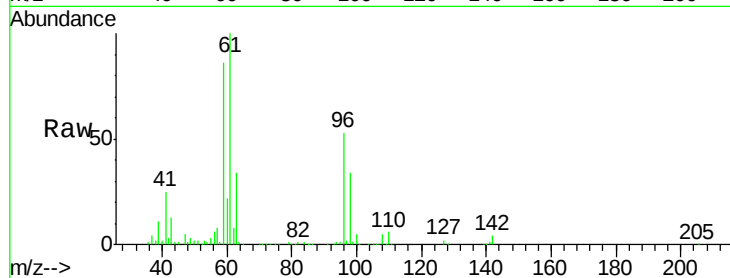
57 10.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#18

1,1-Dichloroethene

Concen: 8.710 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL038329.D

Acq: 3 Feb 2022 11:22

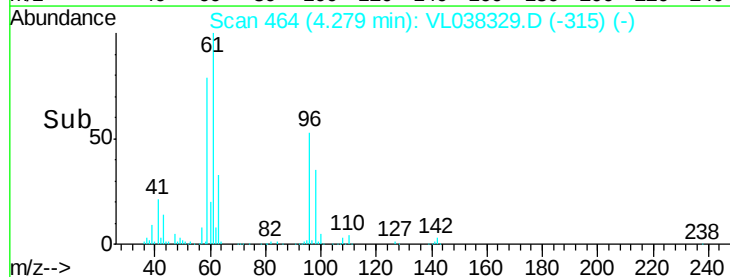
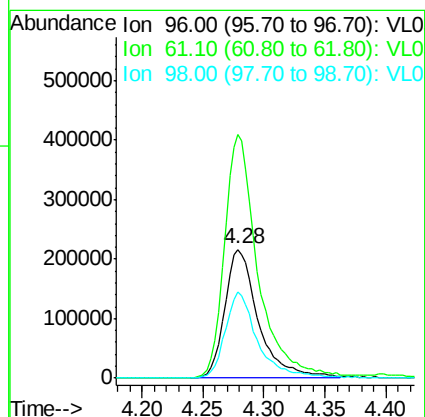
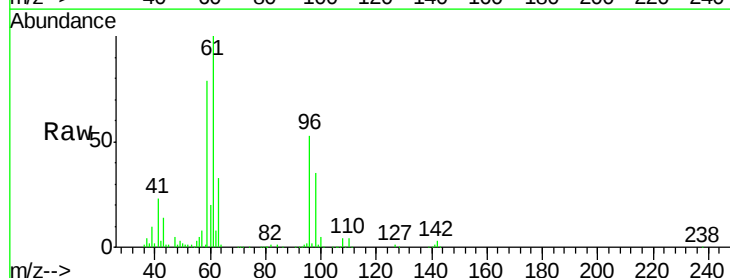
Tgt Ion: 96 Resp: 418003

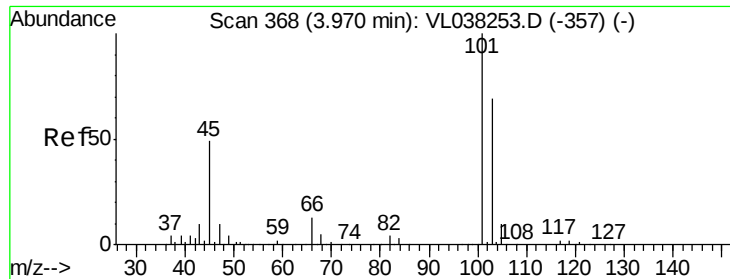
Ion Ratio Lower Upper

96 100

61 189.1 146.5 219.7

98 66.9 51.9 77.9



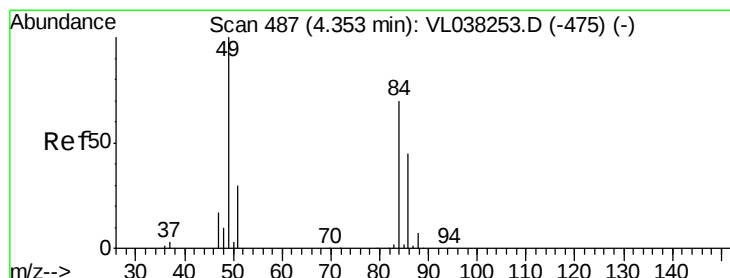
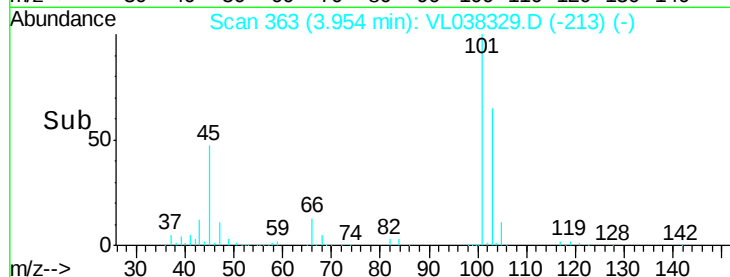
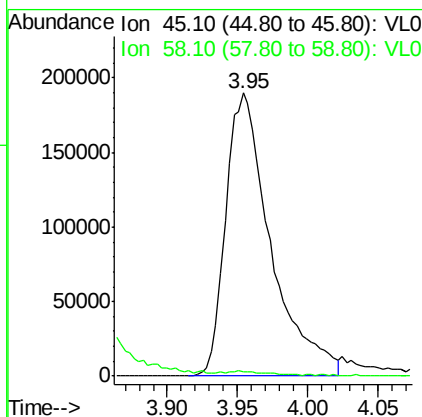
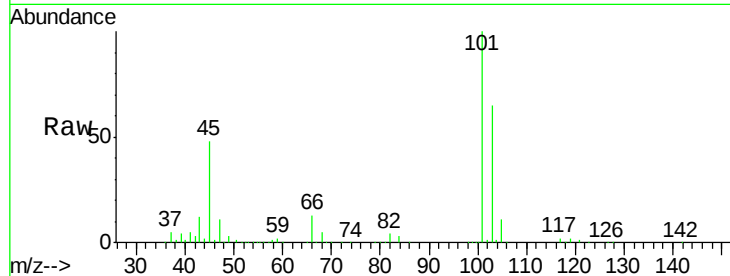


#19
Isopropyl Alcohol
Concen: 8.729 ppbv
RT: 3.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
45 100
58 1.

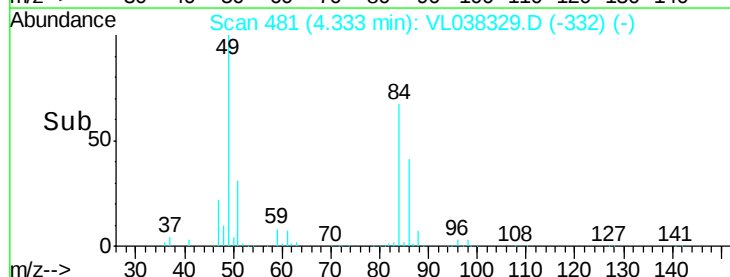
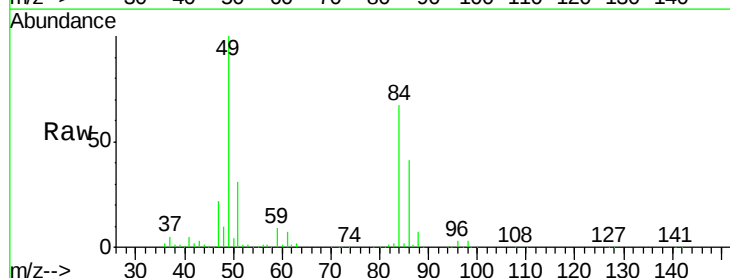
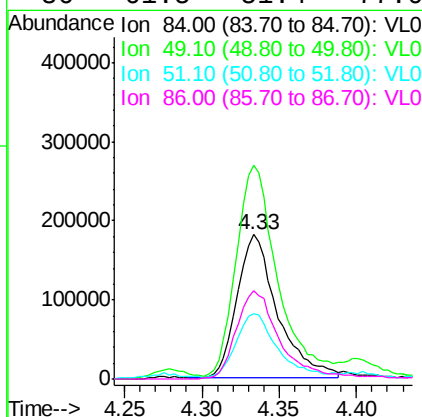
Manual Integrations
APPROVED

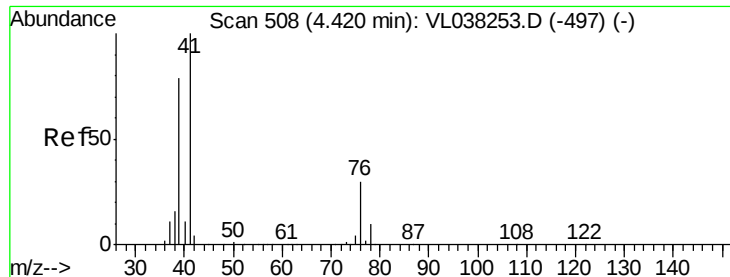
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#20
Methylene Chloride
Concen: 7.369 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion: 84 Resp: 332599
Ion Ratio Lower Upper
84 100
49 145.4 115.0 172.6
51 43.9 35.0 52.6
86 61.5 51.4 77.0



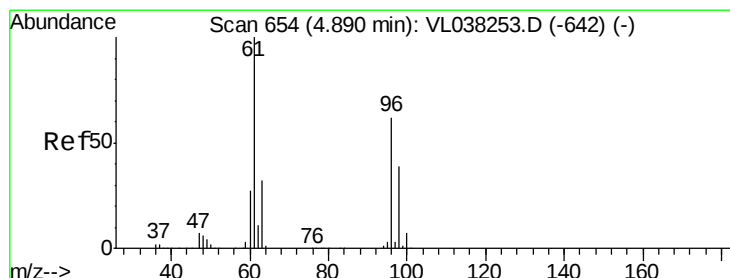
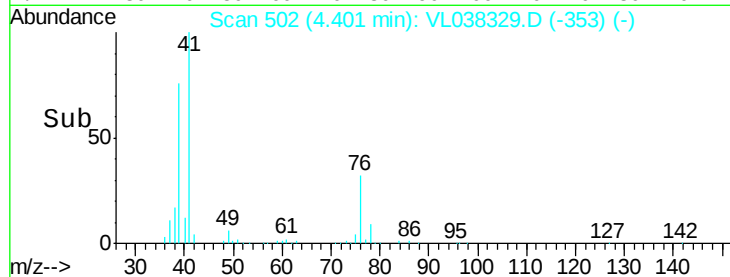
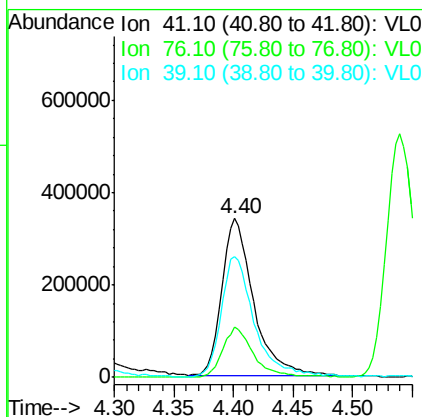
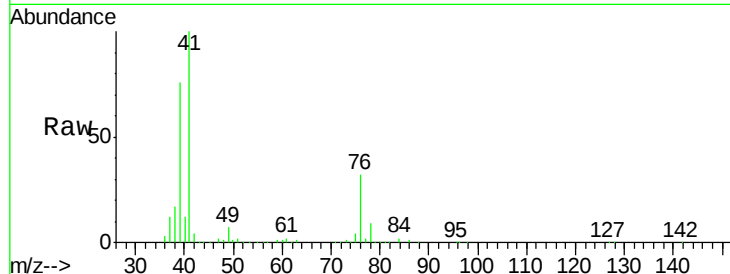


#21
 Allyl Chloride
 Concen: 9.256 ppbv
 RT: 4.40
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : VL0203ABS01
 Acq: 3 Feb 2022 11:22

Tgt Ion:
 Ion Ratio
 41 100
 76 31.
 39 78.

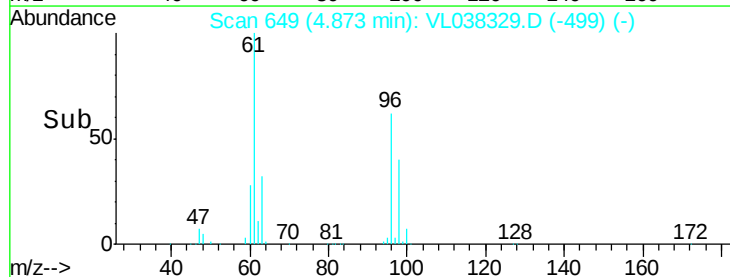
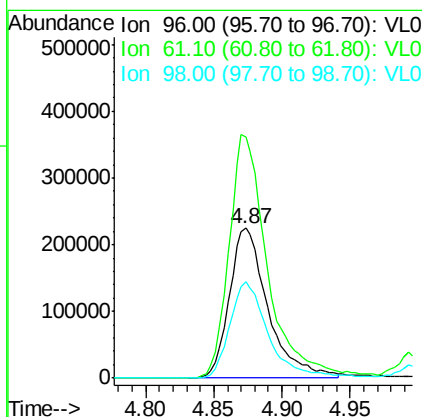
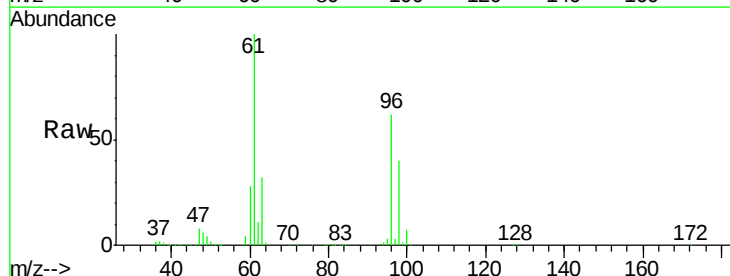
Manual Integrations
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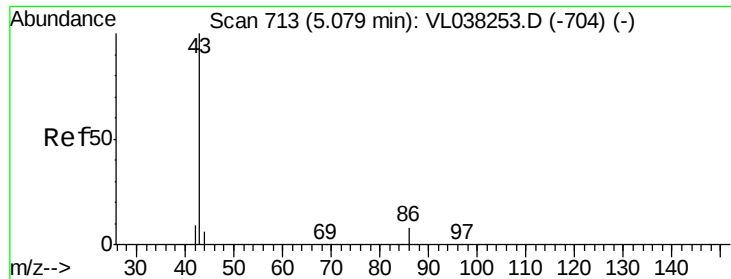
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#22
 trans-1,2-Dichloroethene
 Concen: 8.926 ppbv
 RT: 4.87 min Scan# 649
 Delta R.T. -0.02 min
 Lab File: VL038329.D
 Acq: 3 Feb 2022 11:22

Tgt Ion: 96 Resp: 442616
 Ion Ratio Lower Upper
 96 100
 61 161.1 128.8 193.2
 98 64.6 49.8 74.8





#23

Vinyl Acetate

Concen: 9.049 ppbv

RT: 5.06 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:

Ion Ratio

43 100

86 6.

42 10.

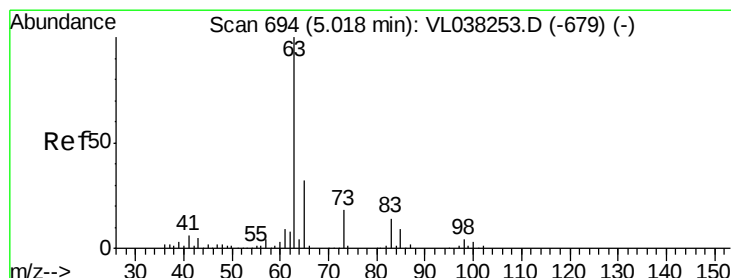
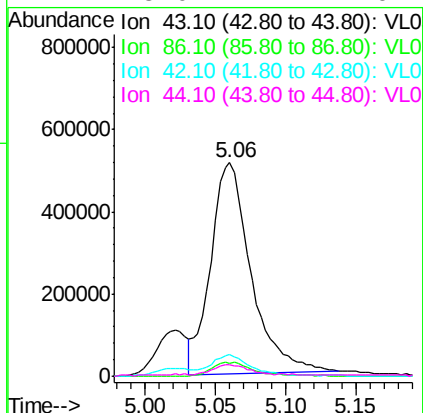
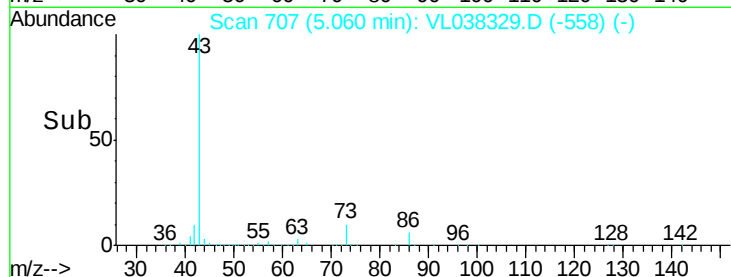
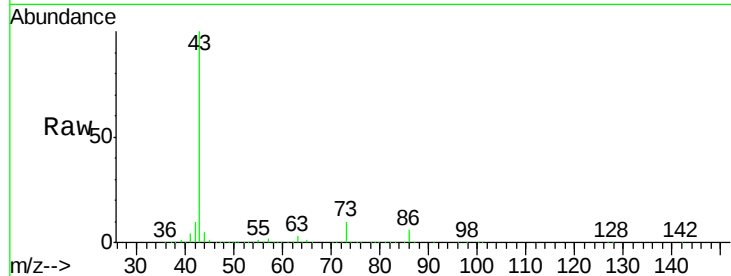
44 5.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#24

1,1-Dichloroethane

Concen: 8.653 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL038329.D

Acq: 3 Feb 2022 11:22

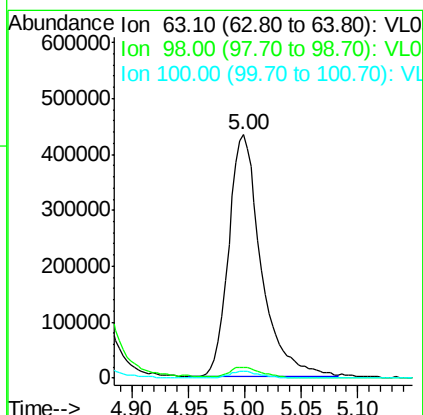
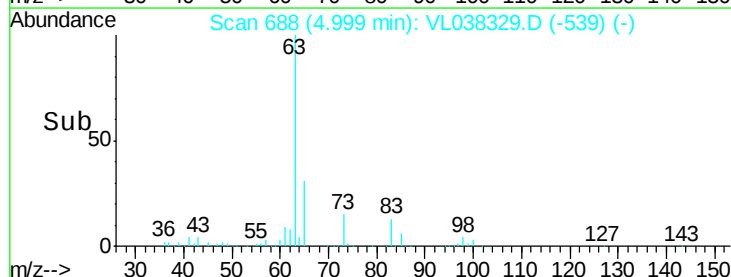
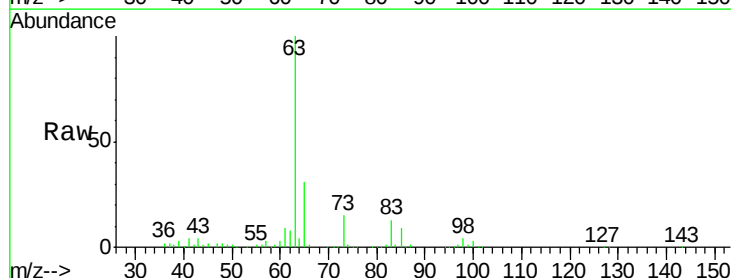
Tgt Ion: 63 Resp: 869786

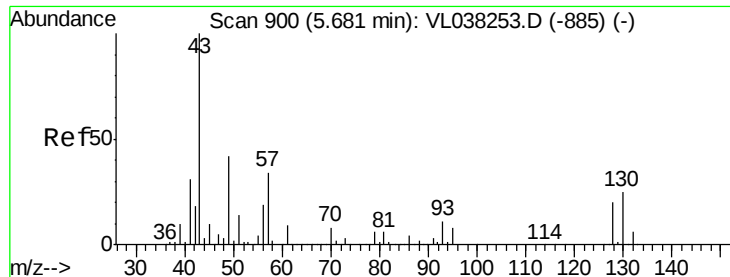
Ion Ratio Lower Upper

63 100

98 4.4 2.3 6.8

100 2.8 1.3 3.9



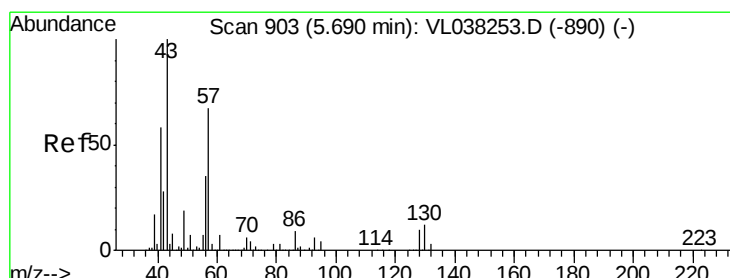
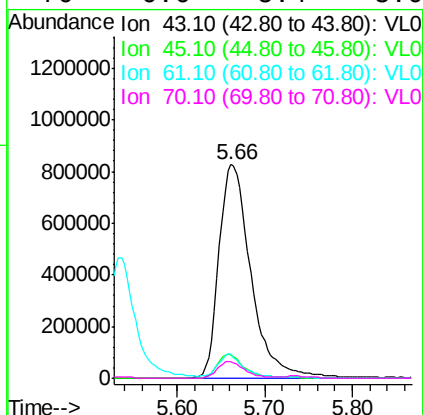
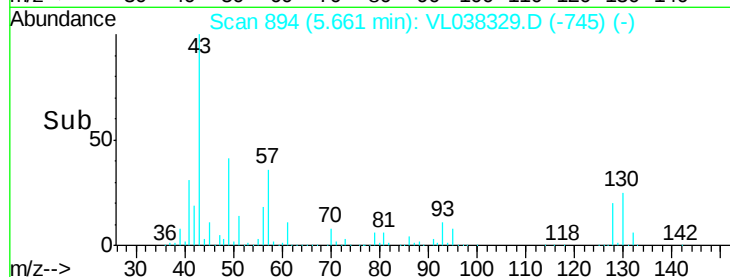
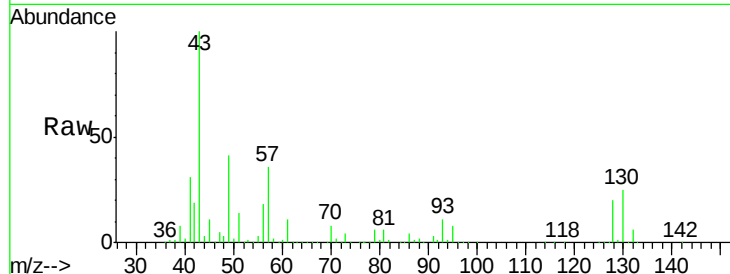


#25
Ethyl Acetate
Concen: 9.648 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
43 100
45 9.
61 9.
70 6.6 5.4 8.0

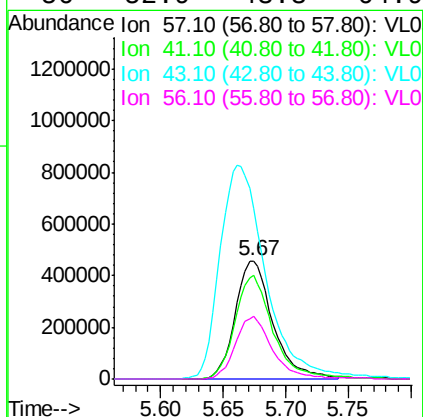
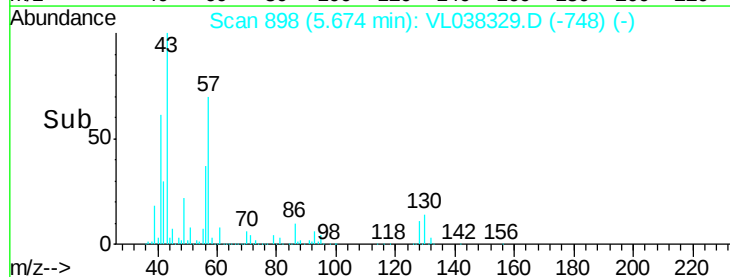
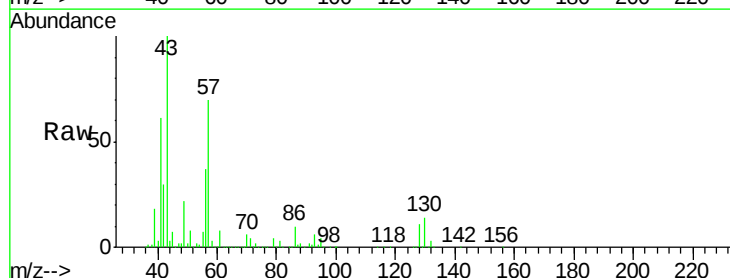
Manual Integrations
APPROVED

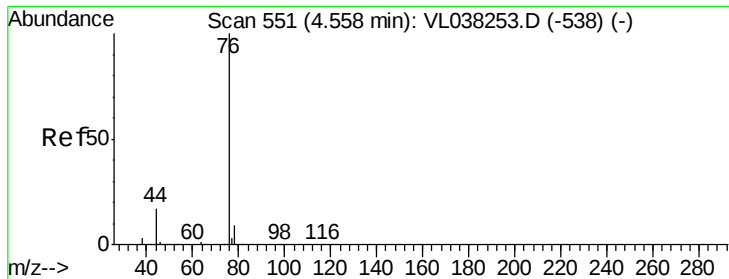
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#26
Hexane
Concen: 9.443 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion: 57 Resp: 954278
Ion Ratio Lower Upper
57 100
41 89.6 72.8 109.2
43 220.0 177.0 265.6
56 52.9 43.3 64.9





#27

Carbon Disulfide

Concen: 8.665 ppbv

RT: 4.54 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: VL0203ABS01

Acq: 3 Feb 2022 11:22

Tgt Ion:

Ion Ratio

76 100

44 19.

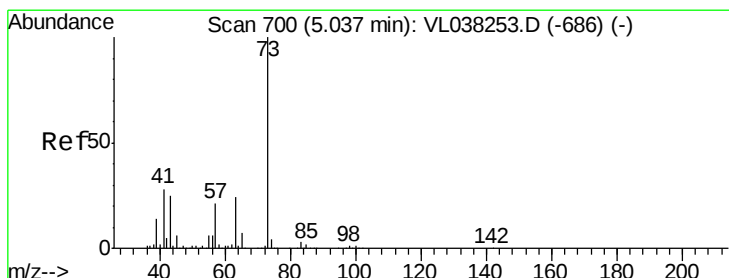
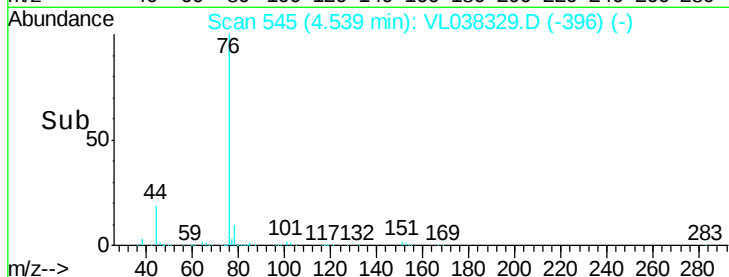
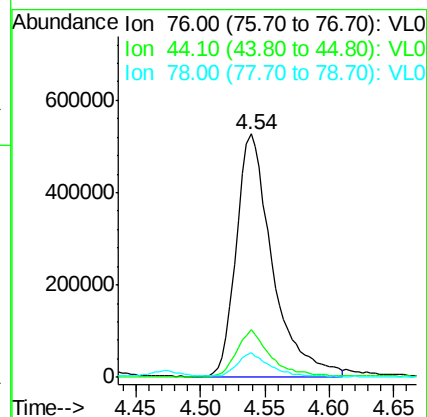
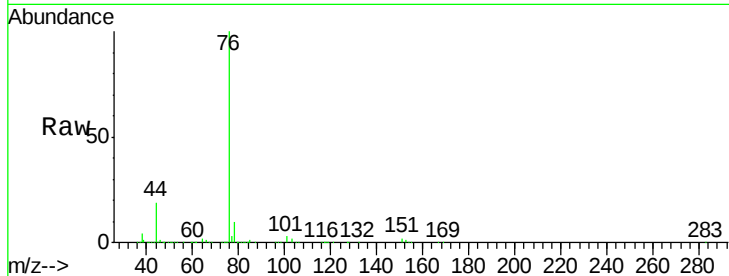
78 10.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#28

Methyl tert-Butyl Ether

Concen: 9.003 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.02 min

Lab File: VL038329.D

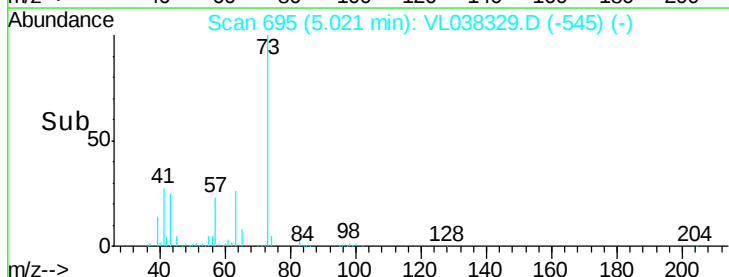
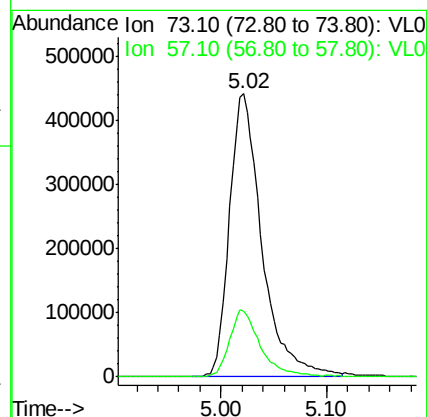
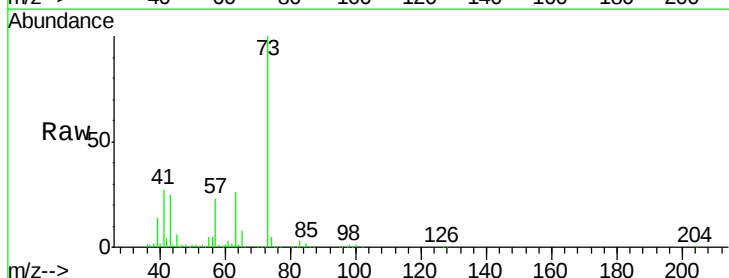
Acq: 3 Feb 2022 11:22

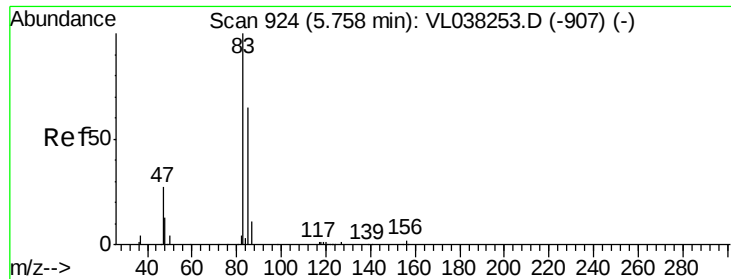
Tgt Ion: 73 Resp: 943882

Ion Ratio Lower Upper

73 100

57 23.1 18.2 27.4



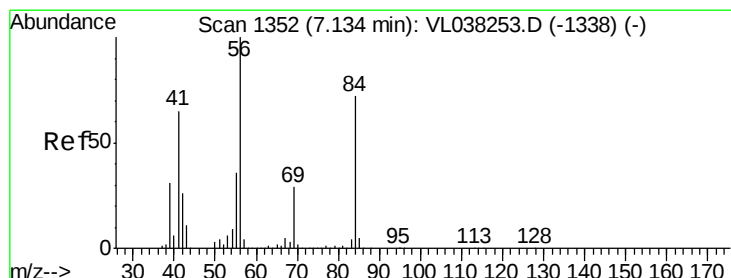
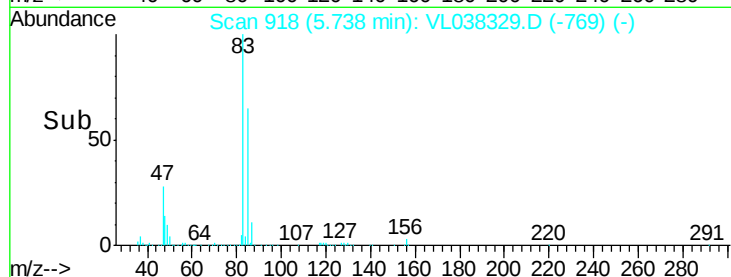
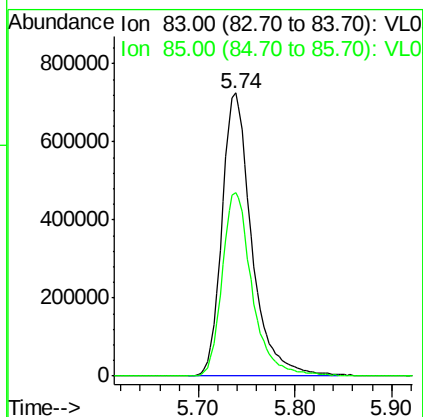
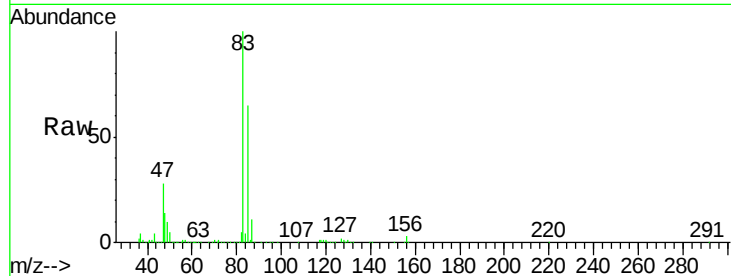


#29
Chloroform
Concen: 9.413 ppbv
RT: 5.74
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
83 100
85 64.

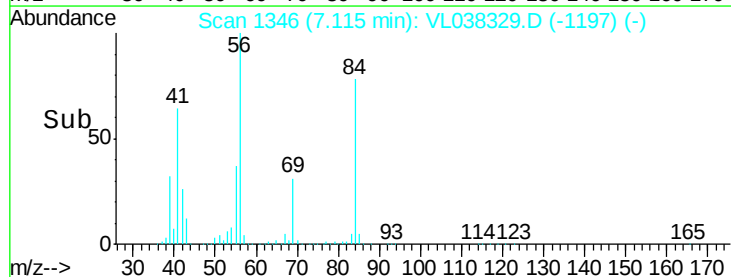
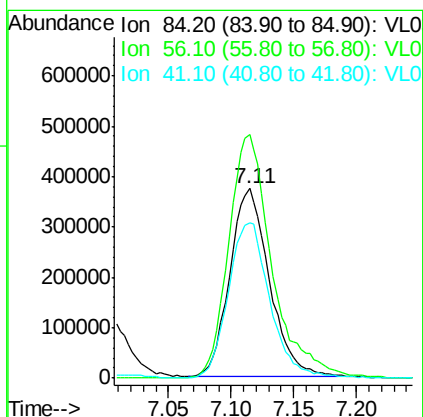
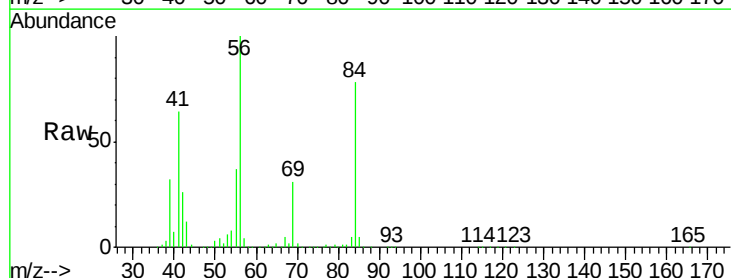
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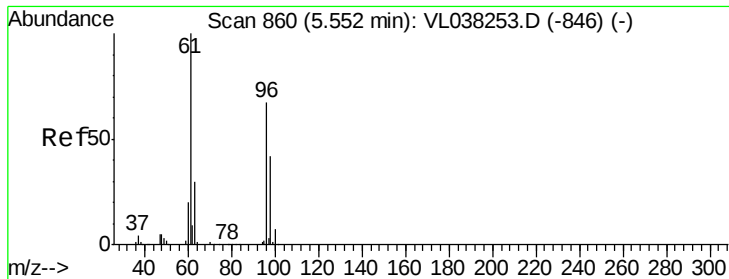
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#30
Cyclohexane
Concen: 9.341 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion: 84 Resp: 821965
Ion Ratio Lower Upper
84 100
56 141.5 112.7 169.1
41 87.0 71.1 106.7





#31

cis-1,2-Dichloroethene

Concen: 11.124 ppbv

RT: 5.53 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:

Ion Ratio

61 100

96 66.

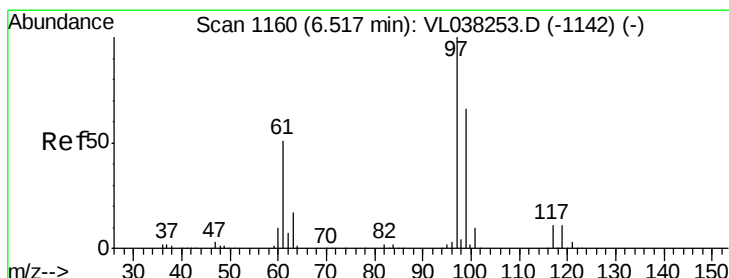
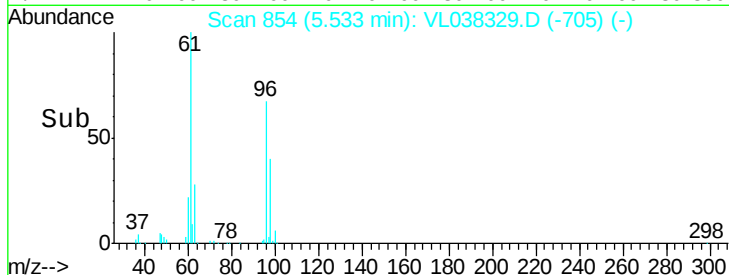
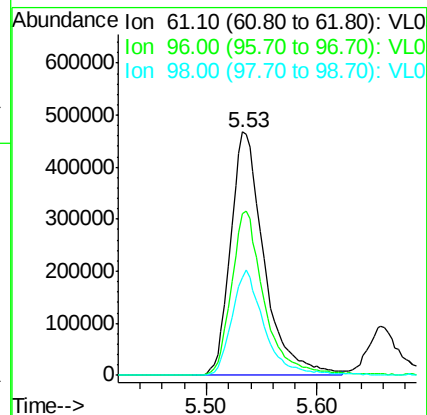
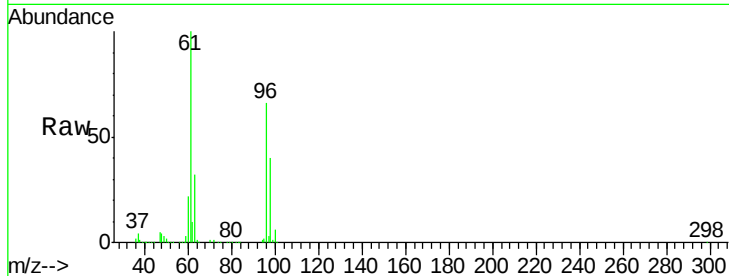
98 40.

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#32

1,1,1-Trichloroethane

Concen: 9.355 ppbv

RT: 6.49 min Scan# 1153

Delta R.T. -0.02 min

Lab File: VL038329.D

Acq: 3 Feb 2022 11:22

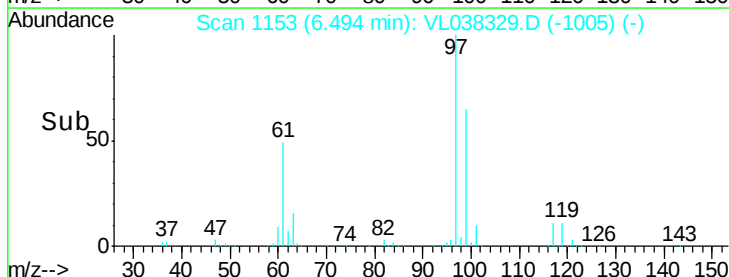
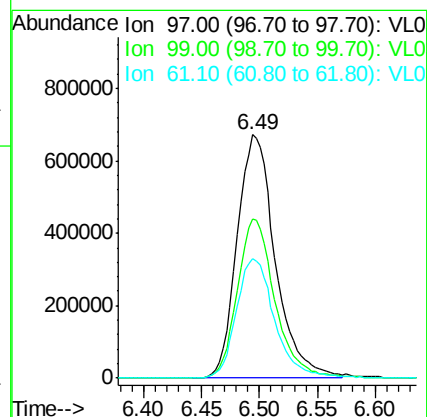
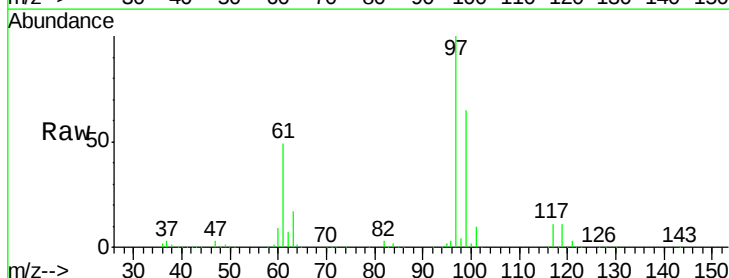
Tgt Ion: 97 Resp: 1541426

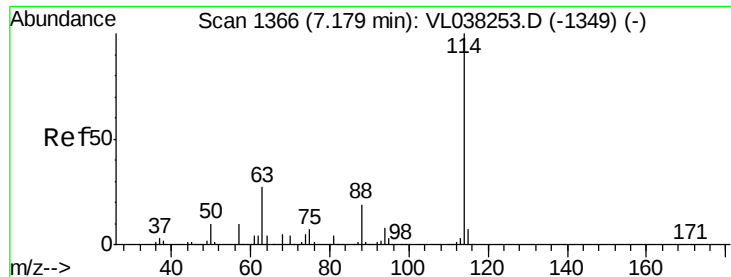
Ion Ratio Lower Upper

97 100

99 64.5 51.5 77.3

61 49.4 40.5 60.7



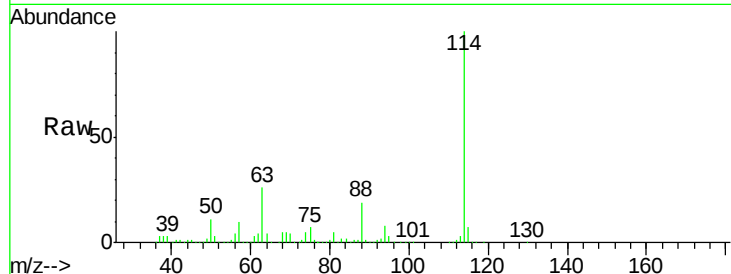


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId : VL0203ABS01
 Acq: 3 Feb 2022 11:22

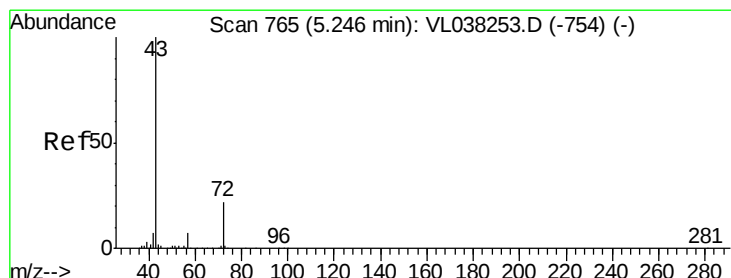
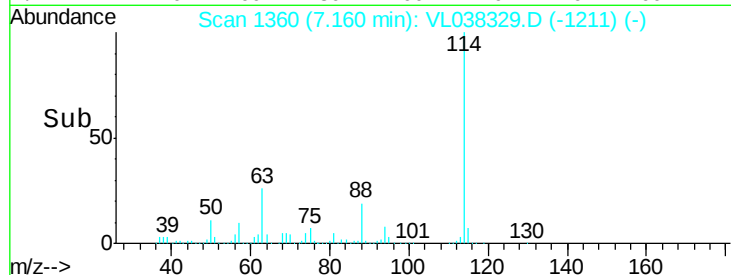
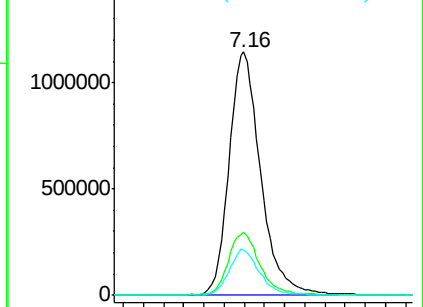
Tgt Ion: 114
 Ion Ratio: 100
 63 26.1
 88 18.1

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Reviewed By : Semsettin Yesilyurt 02/04/2022
 Supervised By : Mahesh Dadoda 02/04/2022

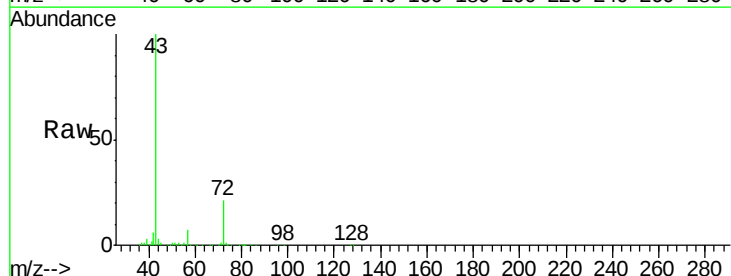


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

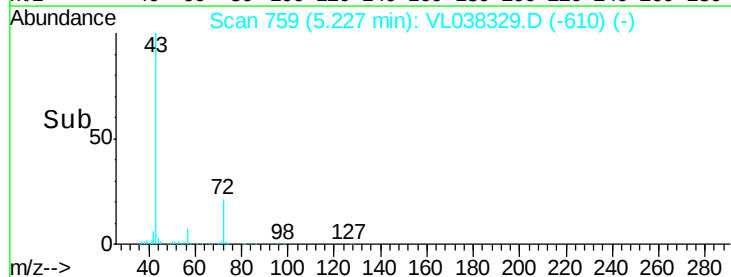
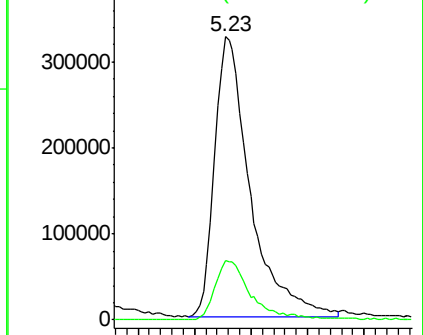


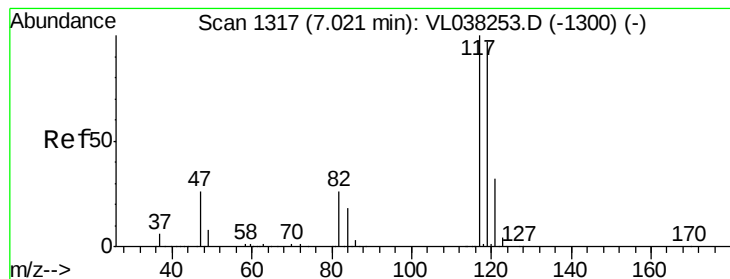
#34
 2-Butanone
 Concen: 8.757 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T.: -0.02 min
 Lab File: VL038329.D
 Acq: 3 Feb 2022 11:22

Tgt Ion: 43 Resp: 713737
 Ion Ratio Lower Upper
 43 100
 72 22.3 18.1 27.1



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





#35

Carbon Tetrachloride

Concen: 9.110 ppbv

RT: 7.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:1

Ion Ratio

117 100

119 96.

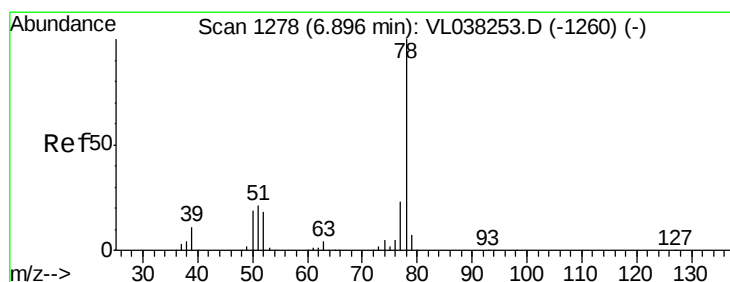
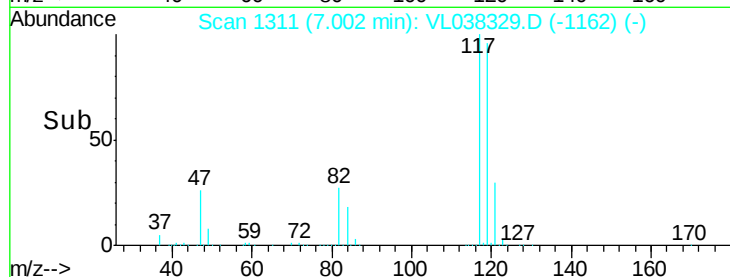
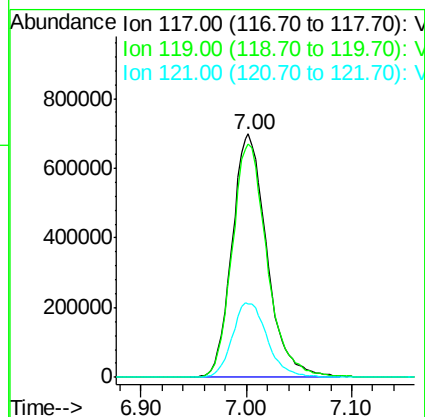
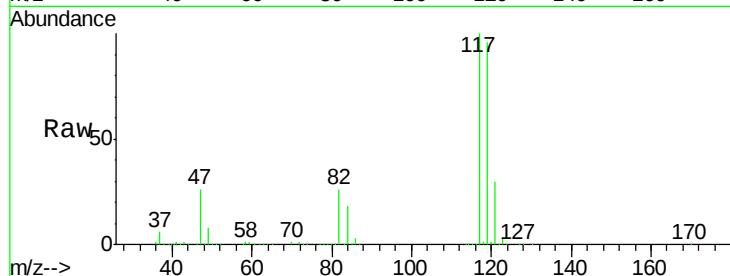
121 30.

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#36

Benzene

Concen: 9.313 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VL038329.D

Acq: 3 Feb 2022 11:22

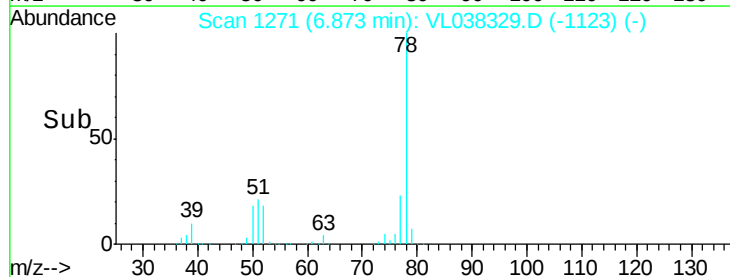
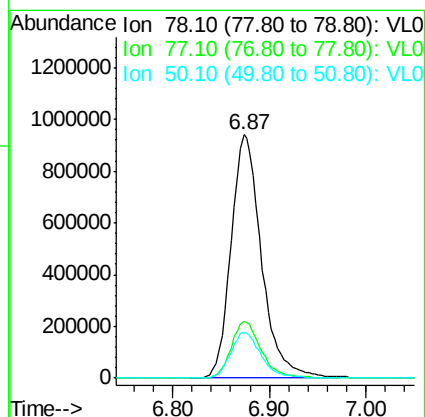
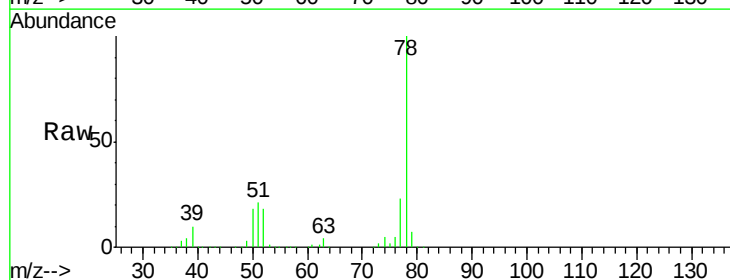
Tgt Ion: 78 Resp: 2053107

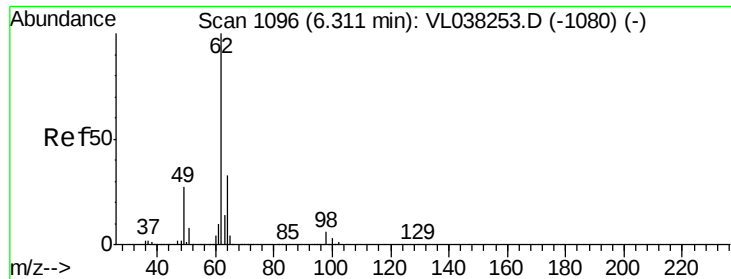
Ion Ratio Lower Upper

78 100

77 23.1 18.2 27.2

50 18.5 15.1 22.7



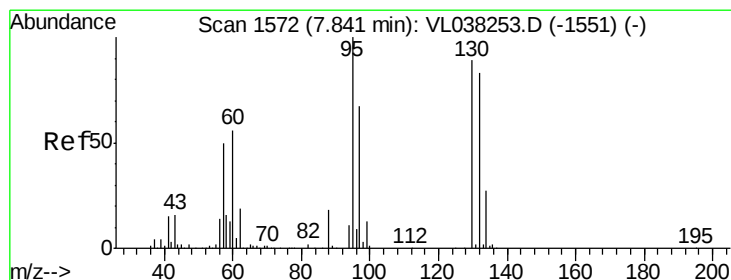
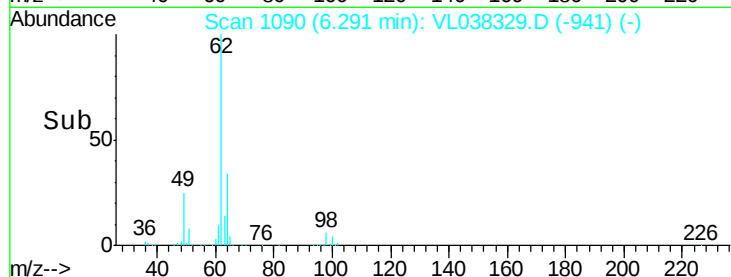
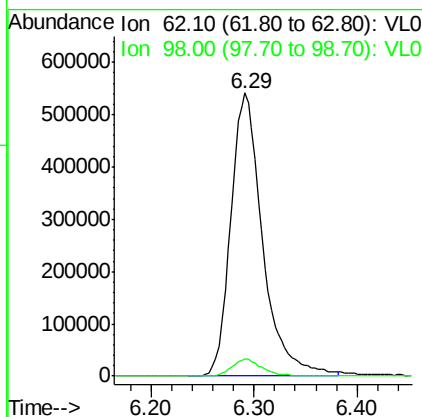
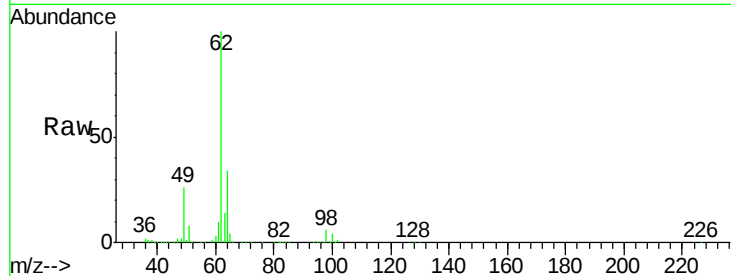


#37
 1,2-Dichloroethane
 Concen: 9.227 ppbv
 RT: 6.29
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId : VL0203ABS01
 Acq: 3 Feb 2022 11:22

Tgt Ion:
 Ion Ratio
 62 100
 98 6.

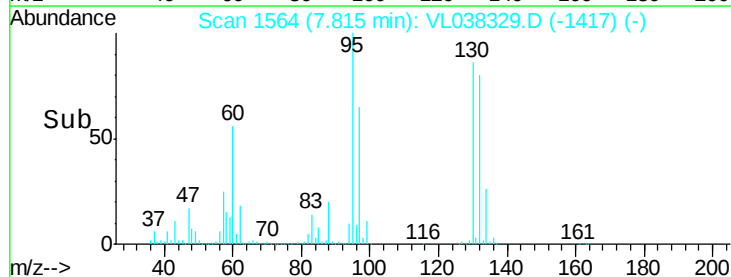
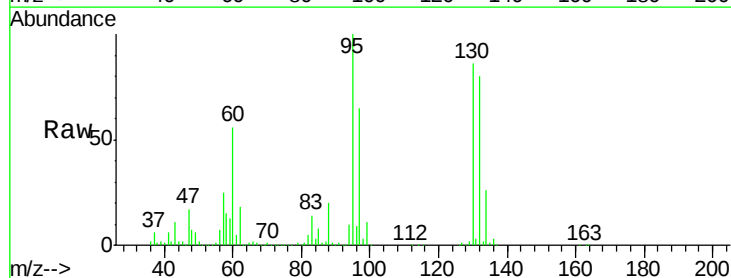
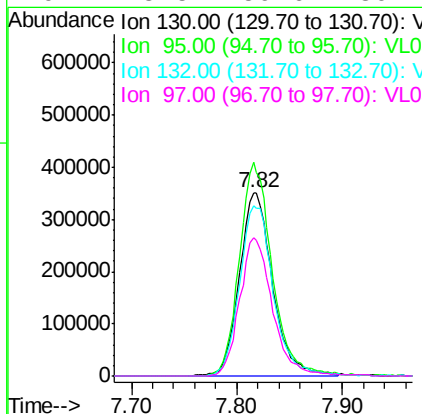
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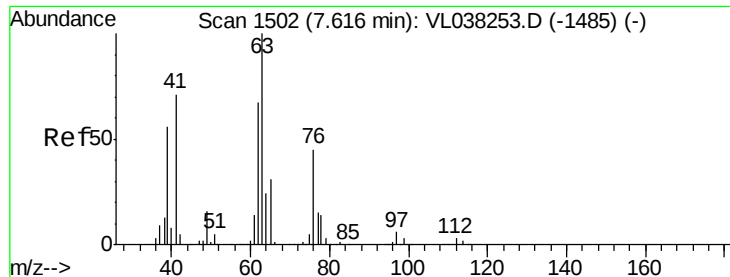
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#38
 Trichloroethene
 Concen: 9.219 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.03 min
 Lab File: VL038329.D
 Acq: 3 Feb 2022 11:22

Tgt Ion:130 Resp: 757092
 Ion Ratio Lower Upper
 130 100
 95 116.8 89.4 134.2
 132 93.3 74.6 111.8
 97 75.5 59.6 89.4



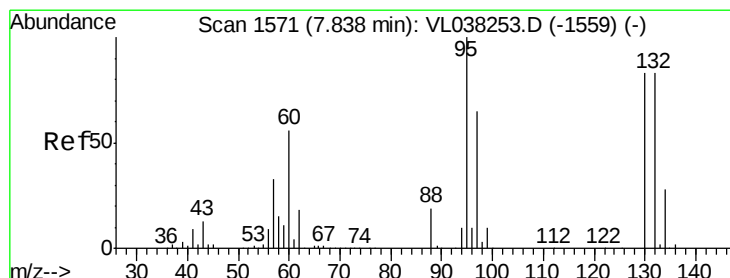
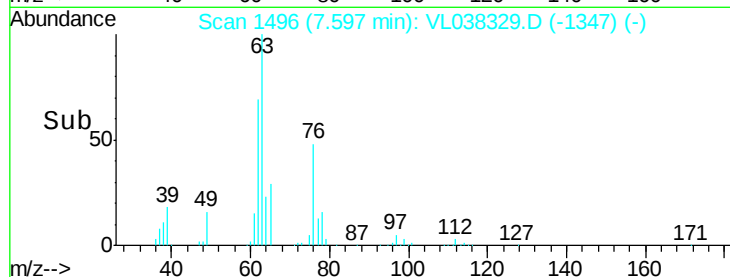
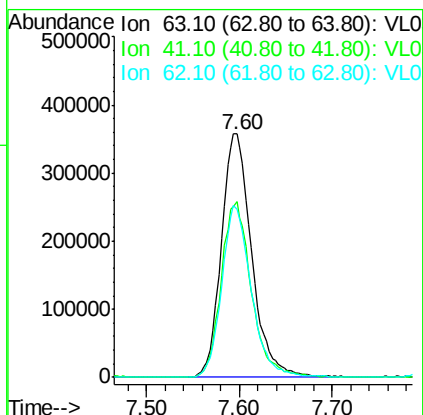
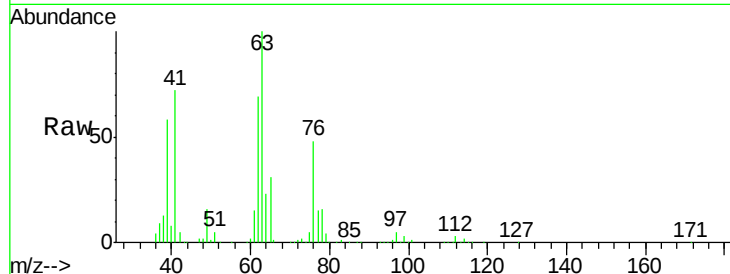


#39
 1,2-Dichloropropane
 Concen: 9.070 ppbv
 RT: 7.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL0203ABS01
 Acq: 3 Feb 2022 11:22

Tgt Ion:
 Ion Ratio
 63 100
 41 72.
 62 68.

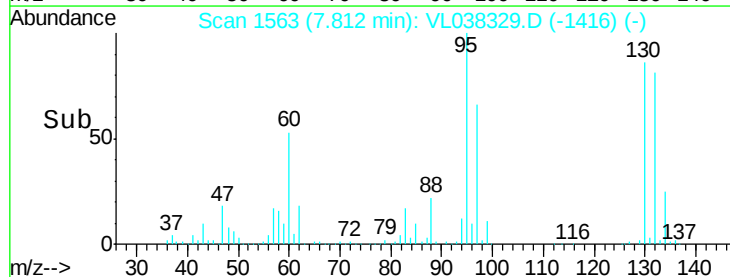
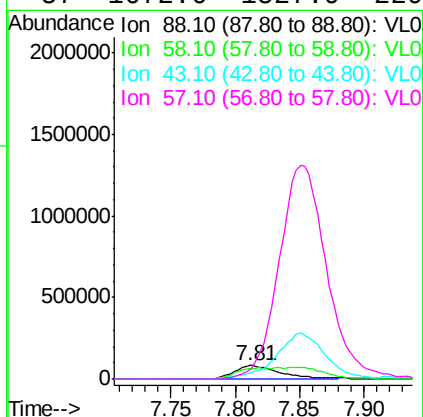
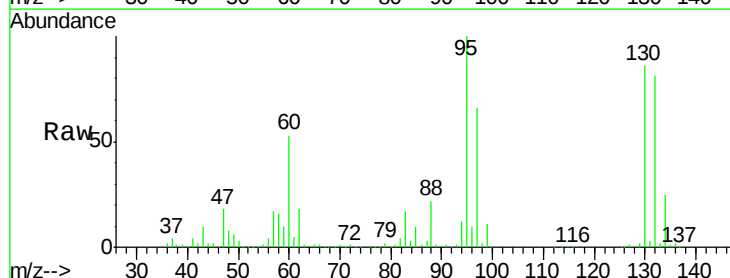
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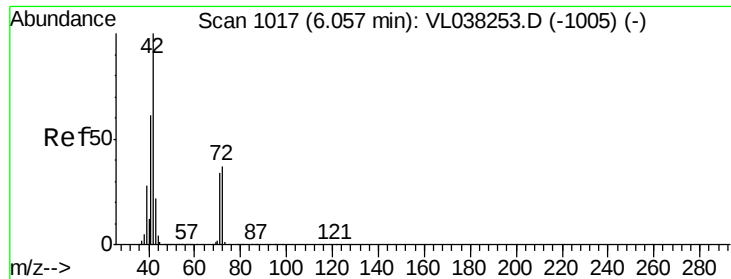
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#40
 1,4-Dioxane
 Concen: 9.403 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.03 min
 Lab File: VL038329.D
 Acq: 3 Feb 2022 11:22

Tgt Ion: 88 Resp: 202301
 Ion Ratio Lower Upper
 88 100
 58 156.6 138.6 208.0
 43 379.6 346.9 520.3
 57 1672.6 1527.9 2291.9



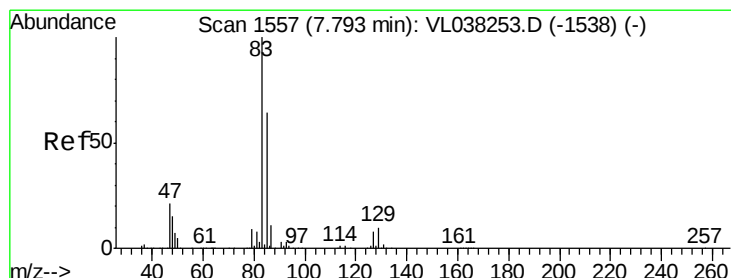
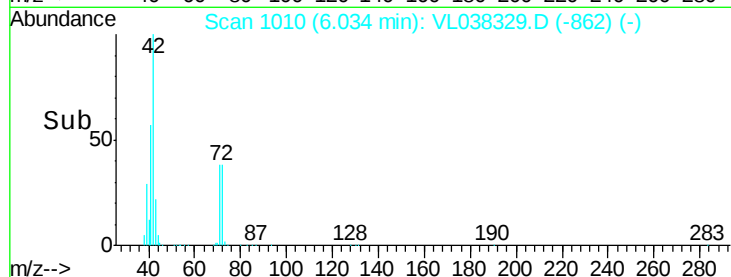
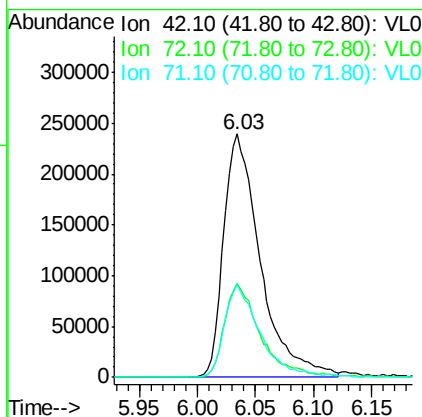
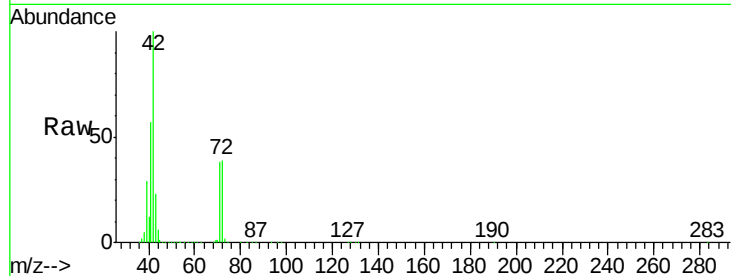


#41
Tetrahydrofuran
Concen: 9.609 ppbv
RT: 6.03
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
42 100
72 38.
71 37.

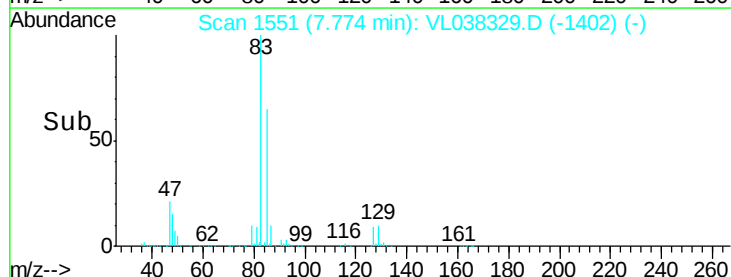
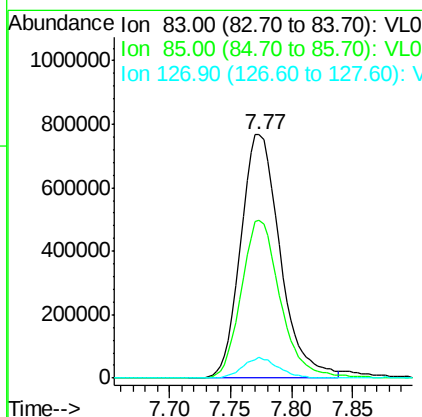
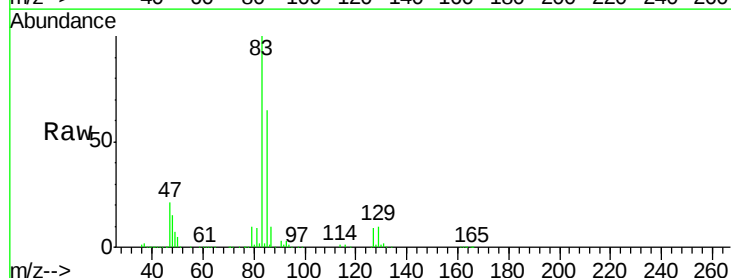
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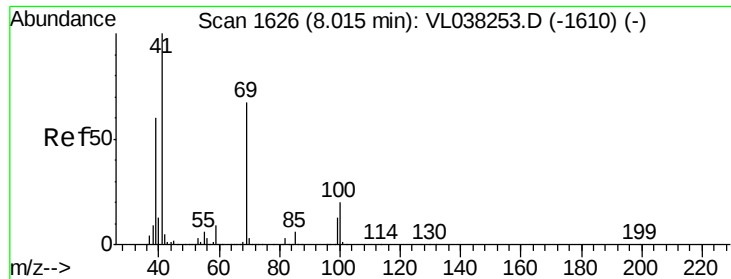
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#42
Bromodichloromethane
Concen: 9.178 ppbv
RT: 7.77 min Scan# 1551
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion: 83 Resp: 1719532
Ion Ratio Lower Upper
83 100
85 65.0 51.5 77.3
127 8.5 6.2 9.4



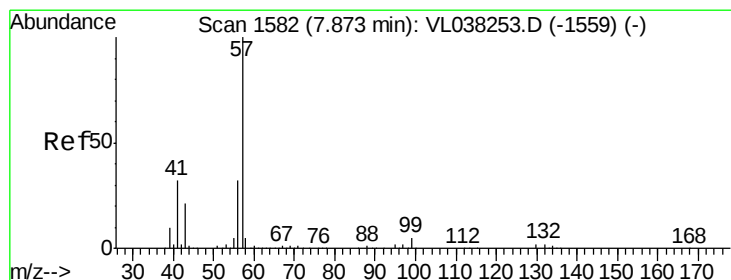
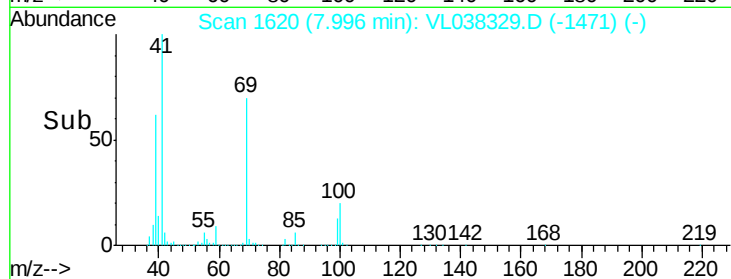
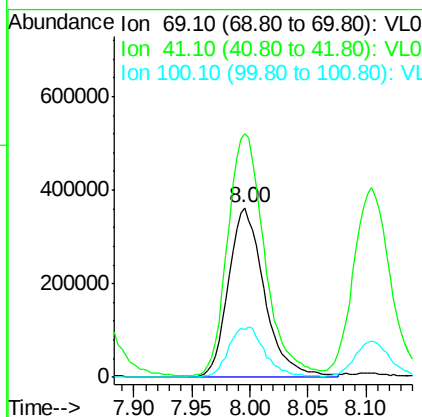
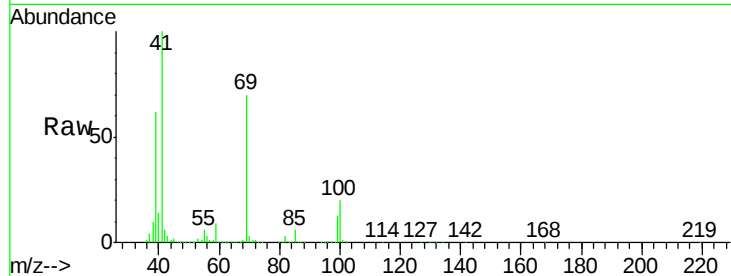


#43
Methyl Methacrylate
Concen: 9.952 ppbv
RT: 8.00
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
69 100
41 148.
100 30.

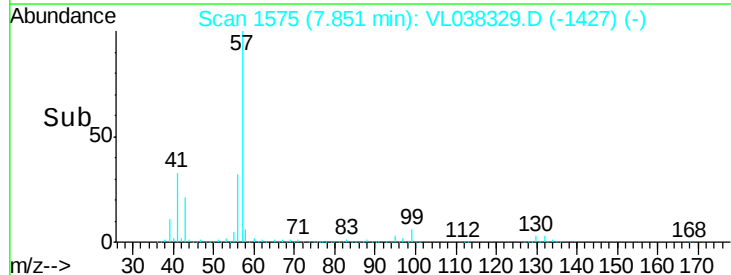
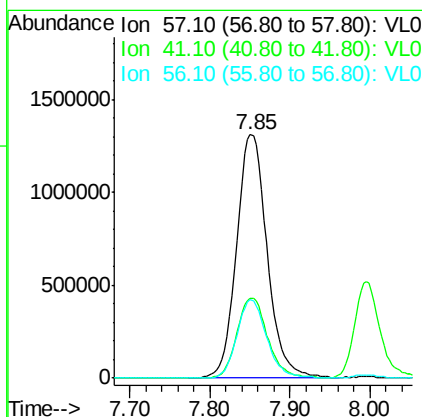
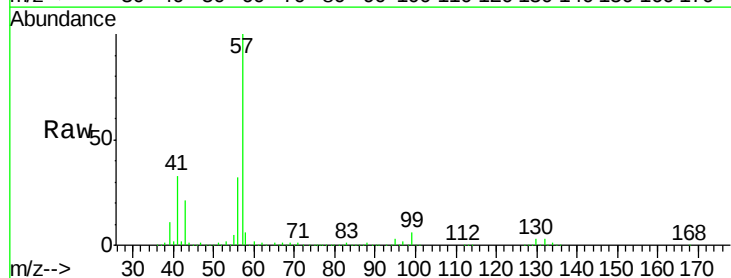
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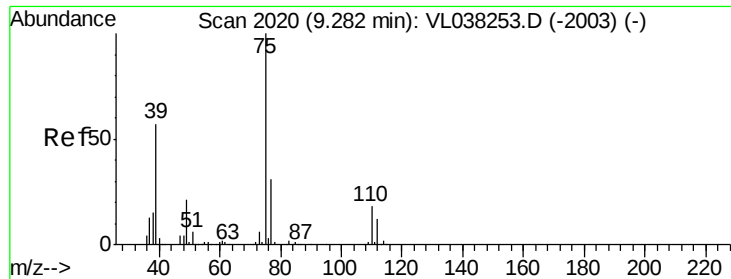
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#44
2,2,4-Trimethylpentane
Concen: 8.706 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion: 57 Resp: 3382758
Ion Ratio Lower Upper
57 100
41 32.9 26.3 39.5
56 31.3 25.2 37.8





#45

t-1,3-Dichloropropene

Concen: 10.934 ppbv

RT: 9.26 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 11:22 VL0203ABS01

Tgt Ion:

Ion Ratio

75 100

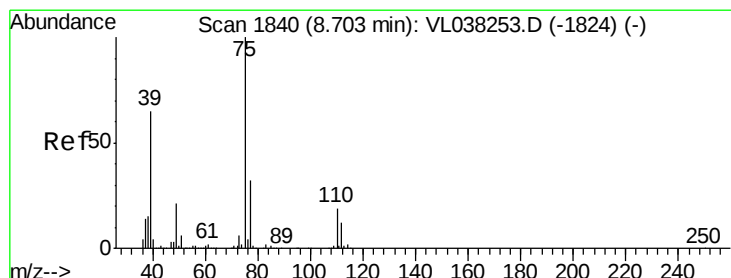
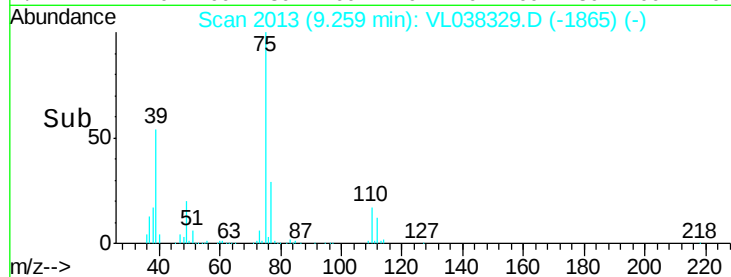
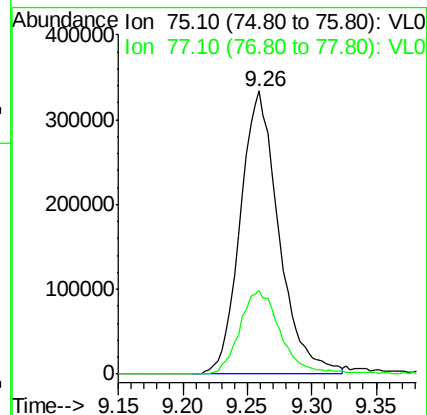
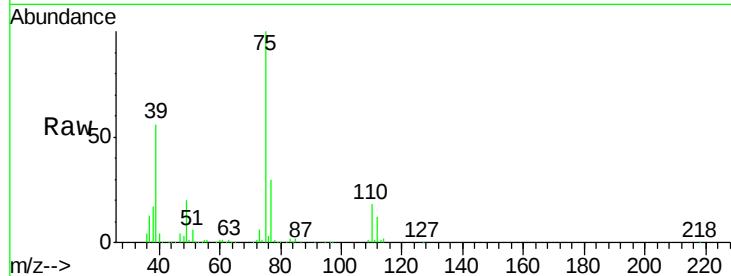
77 29.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#46

cis-1,3-Dichloropropene

Concen: 10.216 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. -0.02 min

Lab File: VL038329.D

Acq: 3 Feb 2022 11:22

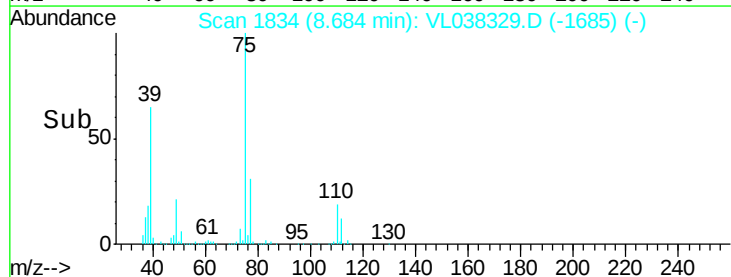
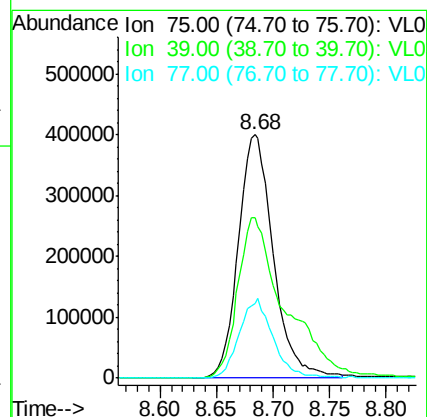
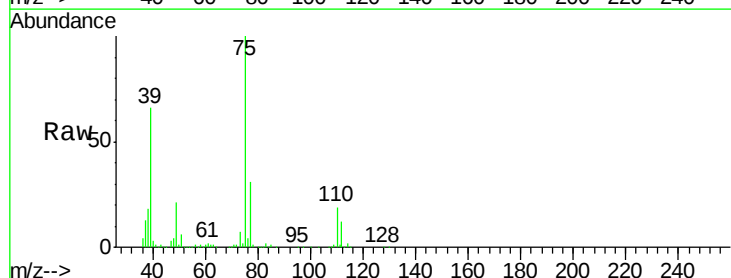
Tgt Ion: 75 Resp: 863610

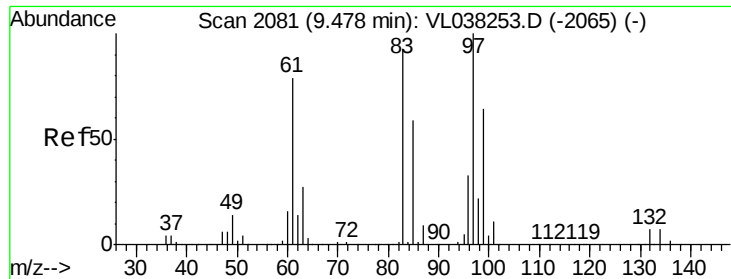
Ion Ratio Lower Upper

75 100

39 65.6 52.3 78.5

77 30.9 25.4 38.0



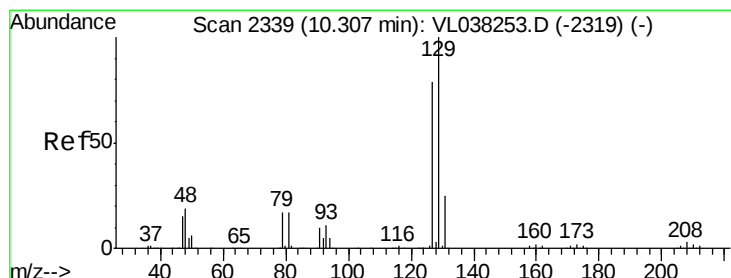
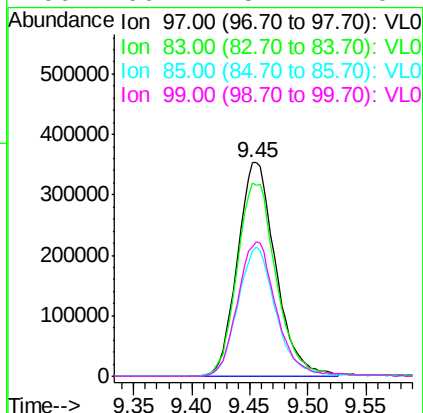
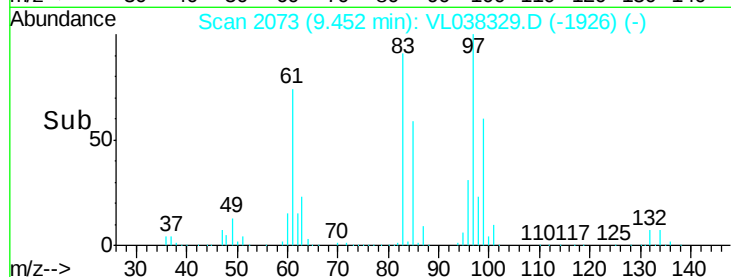
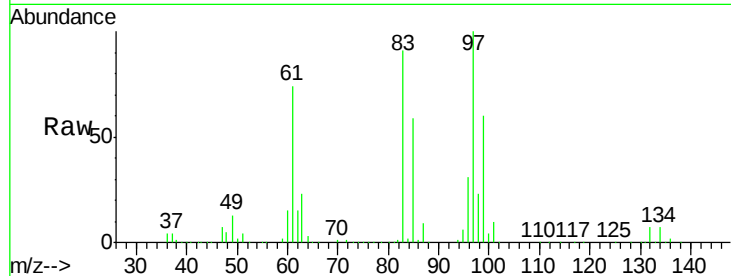


#47
 1,1,2-Trichloroethane
 Concen: 9.228 ppbv
 RT: 9.45 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : VL0203ABS01
 Acq: 3 Feb 2022 11:22

Tgt Ion:
 Ion Ratio
 97 100
 83 90.
 85 58.
 99 60.4 51.1 76.7

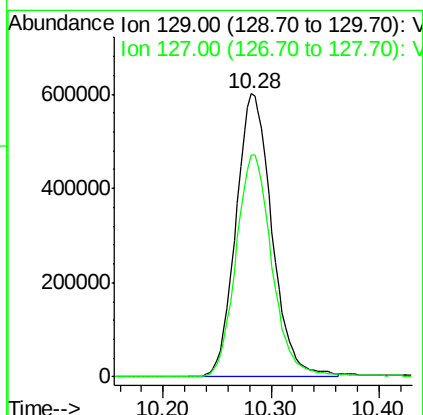
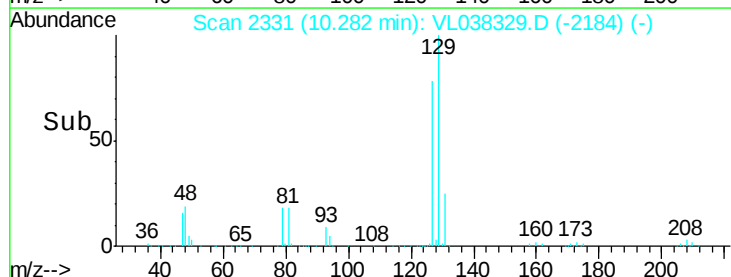
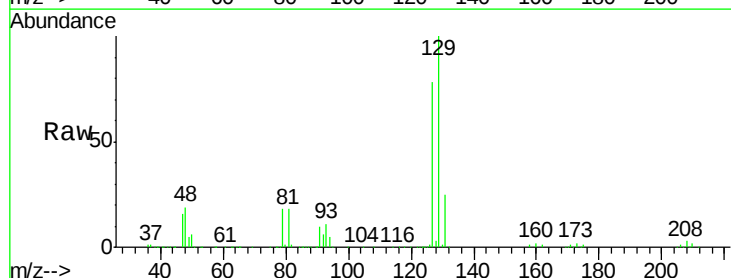
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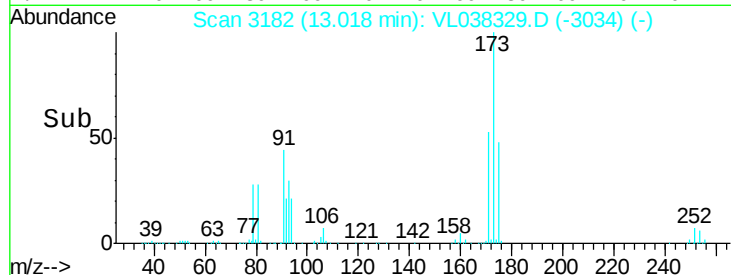
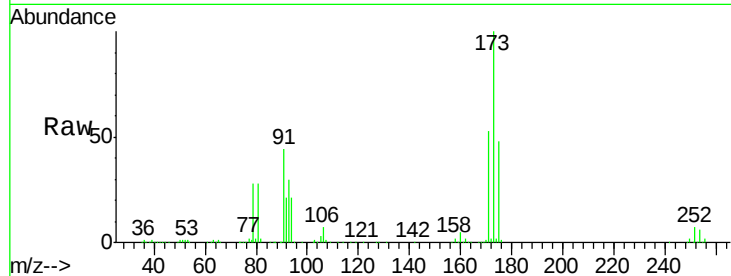
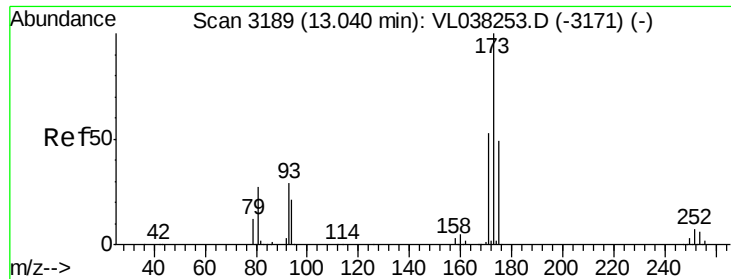
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#48
 Dibromochloromethane
 Concen: 9.453 ppbv
 RT: 10.28 min Scan# 2331
 Delta R.T. -0.03 min
 Lab File: VL038329.D
 Acq: 3 Feb 2022 11:22

Tgt Ion:129 Resp: 1397681
 Ion Ratio Lower Upper
 129 100
 127 78.9 39.1 117.3





#49

Bromoform

Concen: 9.919 ppbv

RT: 13.02

Delta R.T.

Lab File:

Acq: 3 Feb 2022 11:22

Instrument:

MSVOA_L

ClientSampleId:

VL0203ABS01

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022

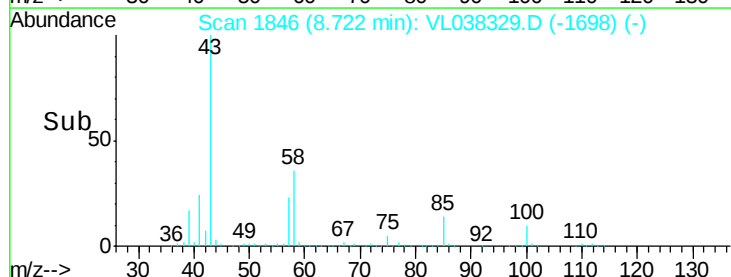
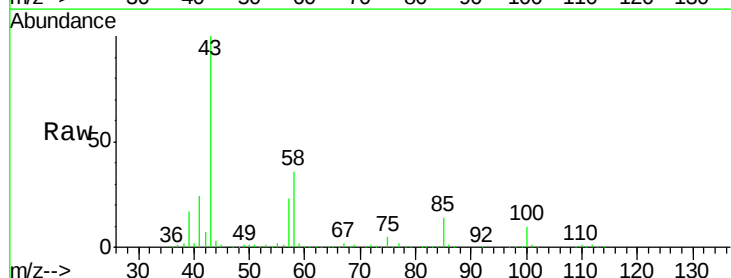
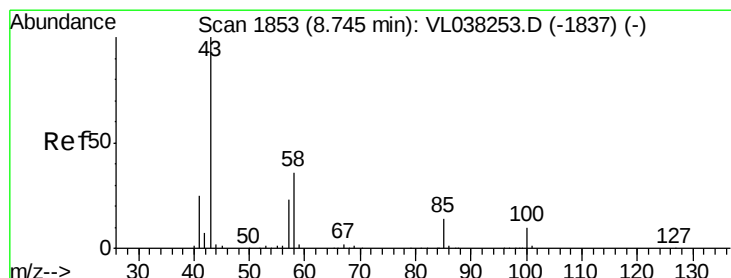
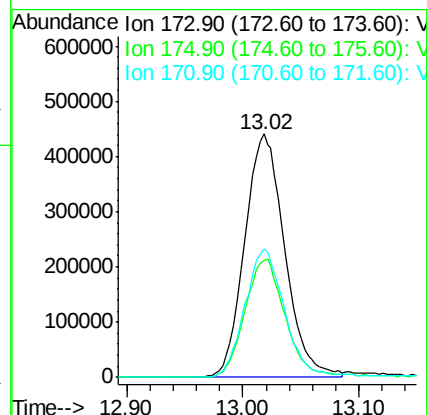
Tgt Ion:1

Ion Ratio

173 100

175 49.

171 53.



#50

4-Methyl-2-Pentanone

Concen: 9.362 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.02 min

Lab File: VL038329.D

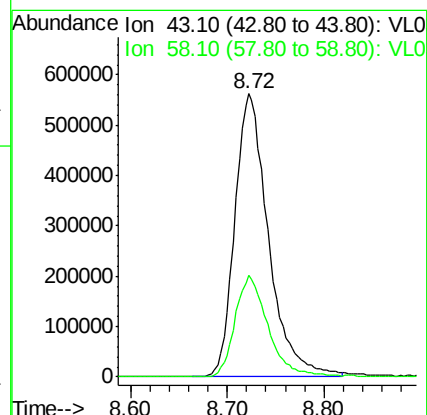
Acq: 3 Feb 2022 11:22

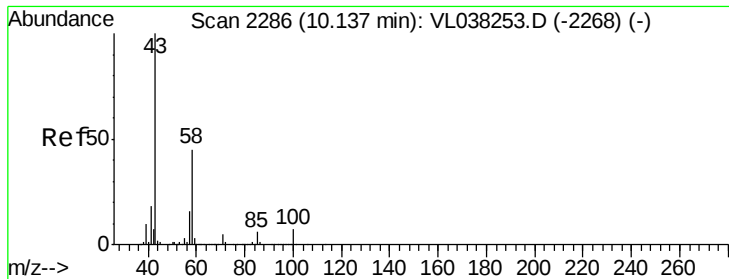
Tgt Ion: 43 Resp: 1361325

Ion Ratio Lower Upper

43 100

58 35.6 28.2 42.4



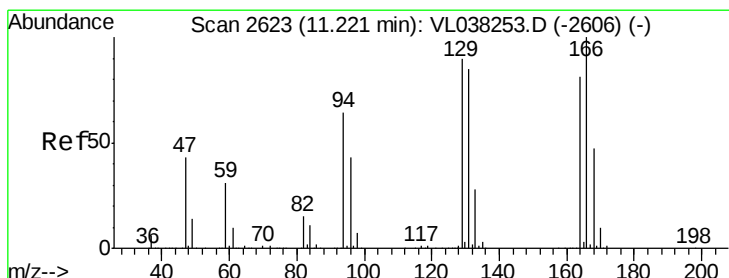
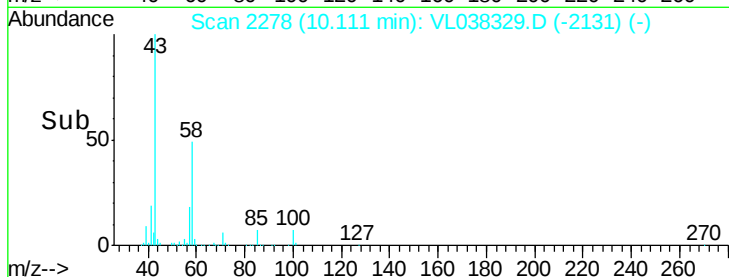
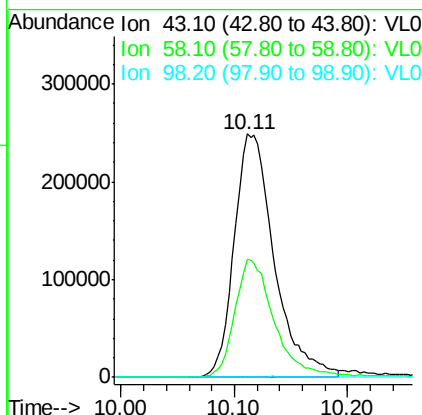
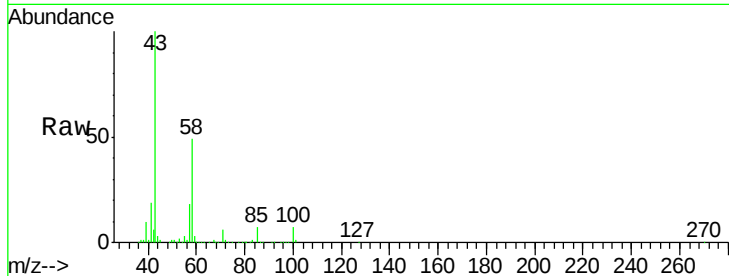


#51
2-Hexanone
Concen: 9.593 ppbv
RT: 10.11
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
43 100
58 48.
98 0.

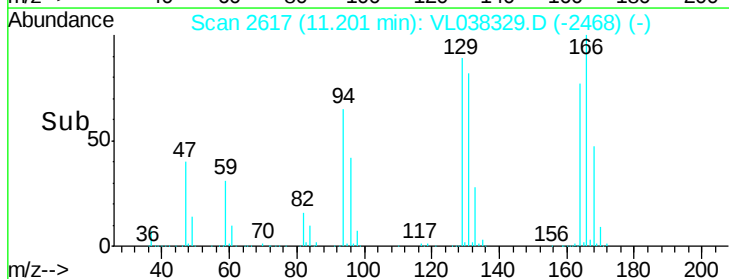
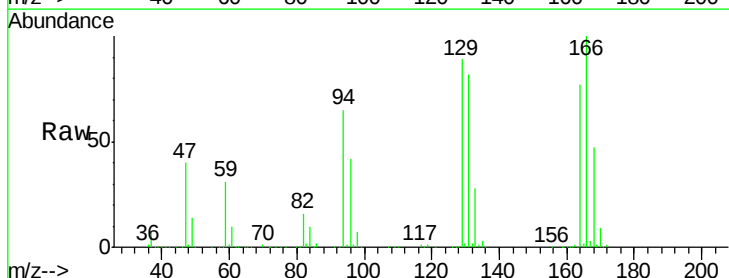
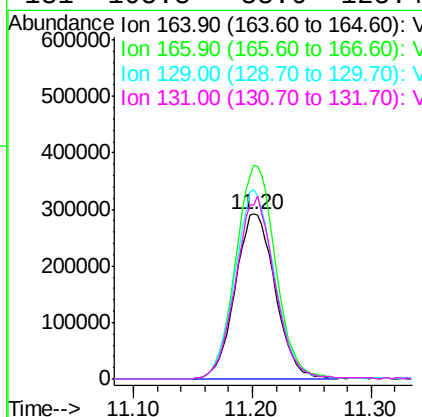
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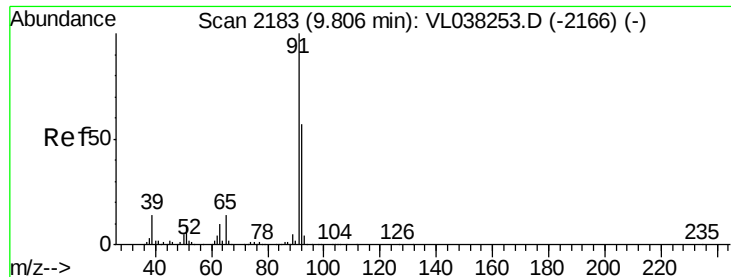
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#52
Tetrachloroethene
Concen: 8.936 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion:164 Resp: 678963
Ion Ratio Lower Upper
164 100
166 129.6 98.8 148.2
129 114.8 89.2 133.8
131 105.8 83.6 125.4



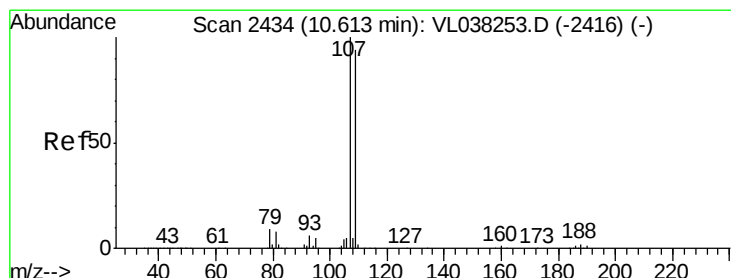
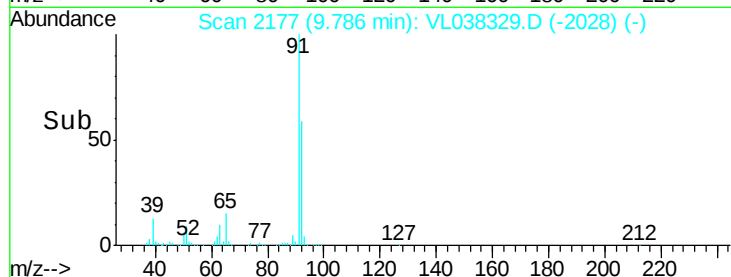
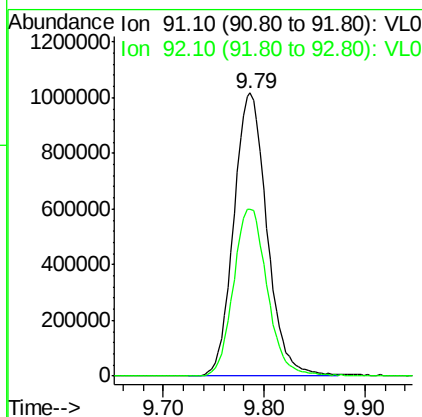
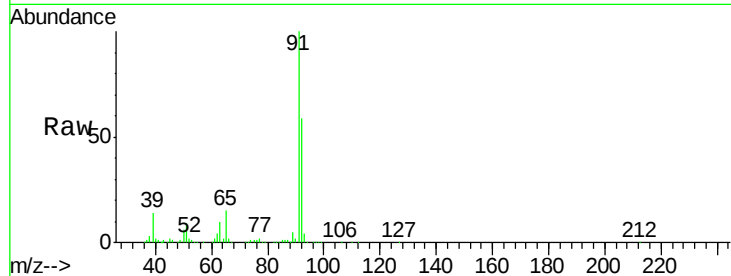


#53
Toluene
Concen: 9.530 ppbv
RT: 9.79
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0203ABS01
Acq: 3 Feb 2022 11:22

Tgt Ion:
Ion Ratio
91 100
92 60.

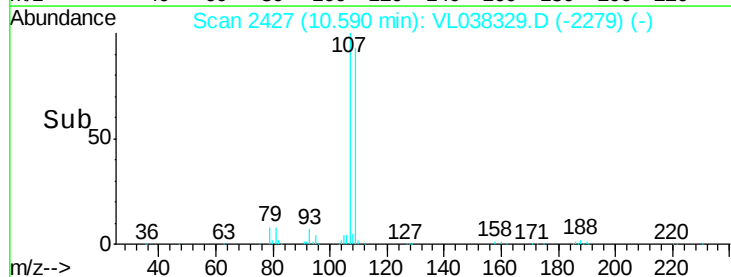
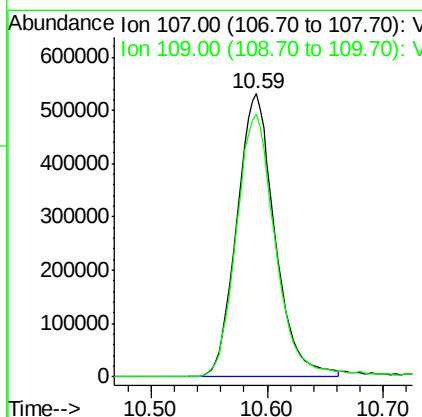
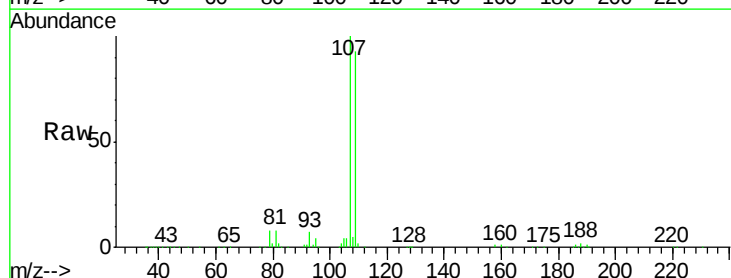
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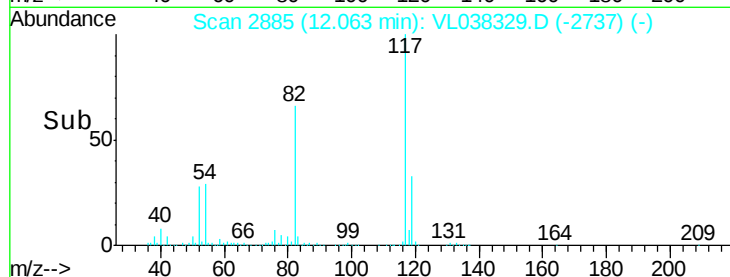
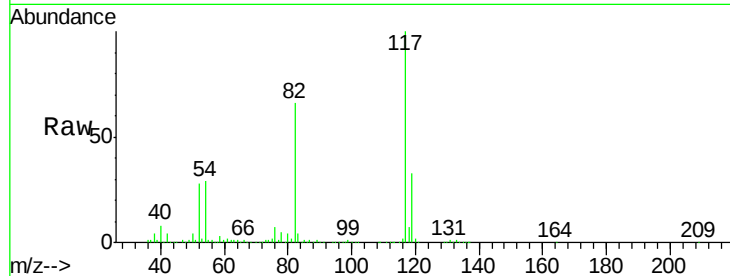
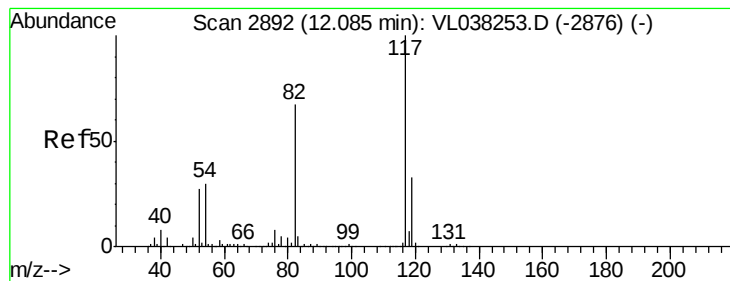
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#54
1,2-Dibromoethane
Concen: 9.696 ppbv
RT: 10.59 min Scan# 2427
Delta R.T. -0.02 min
Lab File: VL038329.D
Acq: 3 Feb 2022 11:22

Tgt Ion:107 Resp: 1210737
Ion Ratio Lower Upper
107 100
109 92.8 75.4 113.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.06

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 3 Feb 2022 11:22

Tgt Ion:1

Ion Ratio

117 100

82 67.

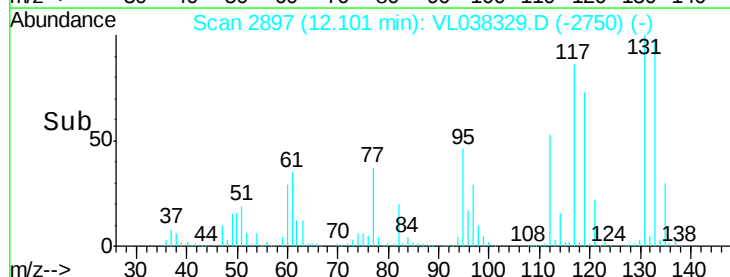
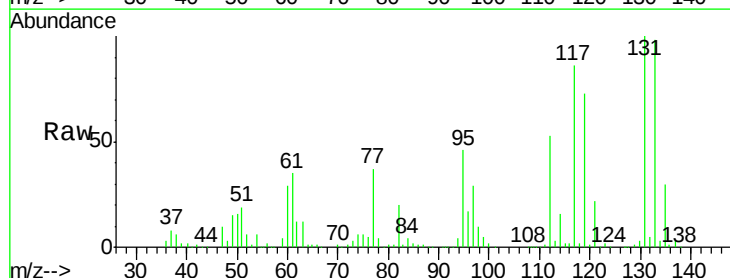
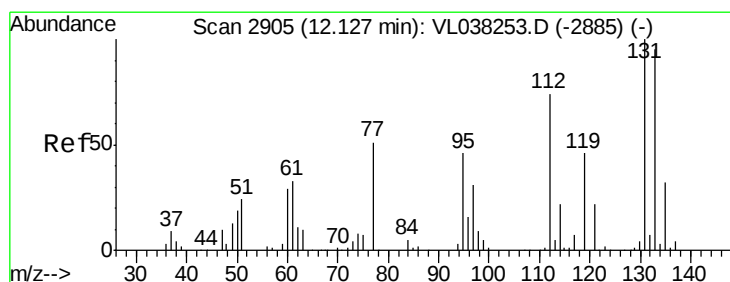
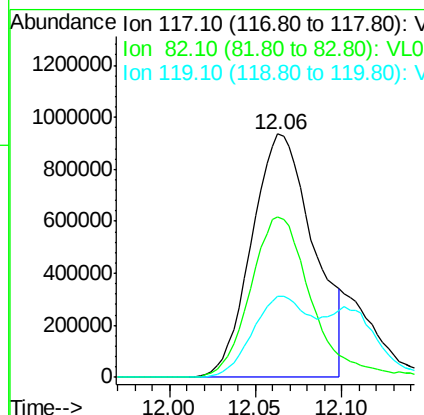
119 30.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#56

1,1,1,2-Tetrachloroethane

Concen: 8.777 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.03 min

Lab File: VL038329.D

Acq: 3 Feb 2022 11:22

Tgt Ion:131 Resp: 895079

Ion Ratio Lower Upper

131 100

133 97.7 76.0 114.0

119 61.8 53.0 79.4

