

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038717.D
 Acq On : 23 Mar 2022 15:44
 Operator : SY/AP
 Sample : VL0323ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0323ABS01

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 12:26:33 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122A

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

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	780742	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2078410	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1975670m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1424612	9.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	883862	8.42	ppbv	98
3) Chlorodifluoromethane	2.99	51	807190	9.79	ppbv	98
4) Chloromethane	3.14	50	437956	9.67	ppbv	100
5) Vinyl Chloride	3.25	62	458114	9.96	ppbv	99
6) Bromomethane	3.47	94	264220	10.77	ppbv	98
7) Chloroethane	3.55	64	156972	10.31	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	1074405	10.25	ppbv	98
9) Propene	3.01	41	363299	9.13	ppbv	99
10) Heptane	8.11	43	962445	10.11	ppbv	99
11) Trichlorofluoromethane	3.94	101	1035886	11.18	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	785437	11.01	ppbv	99
13) Ethanol	3.60	45	37814m	8.61	ppbv	
14) Bromoethene	3.73	108	345871	10.91	ppbv	98
15) Acetone	3.84	43	693478	10.29	ppbv	100
16) 1,3-Butadiene	3.32	39	405720	10.61	ppbv	99
17) tert-Butyl alcohol	4.28	59	724368	12.31	ppbv	100
18) 1,1-Dichloroethene	4.28	96	357804	11.17	ppbv	96
19) Isopropyl Alcohol	3.95	45	411713	11.02	ppbv	99
20) Methylene Chloride	4.34	84	289196	10.19	ppbv	98
21) Allyl Chloride	4.40	41	530217	10.94	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	382288	11.51	ppbv	99
23) Vinyl Acetate	5.06	43	777266	11.91	ppbv	99
24) 1,1-Dichloroethane	5.00	63	708488	11.03	ppbv	100
25) Ethyl Acetate	5.66	43	1707715	10.07	ppbv	99
26) Hexane	5.67	57	757700	9.98	ppbv	99
27) Carbon Disulfide	4.54	76	926651	12.44	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	661874	11.70	ppbv	99
29) Chloroform	5.74	83	1247631	10.26	ppbv	100
30) Cyclohexane	7.11	84	646420	9.79	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	757853	10.62	ppbv	98
32) 1,1,1-Trichloroethane	6.49	97	1244071	10.60	ppbv	99
34) 2-Butanone	5.23	43	803766	9.77	ppbv	98
35) Carbon Tetrachloride	7.00	117	1302290	10.80	ppbv	98
36) Benzene	6.88	78	1623895	10.12	ppbv	100
37) 1,2-Dichloroethane	6.29	62	866281	10.62	ppbv	99
38) Trichloroethene	7.82	130	700801	10.43	ppbv	98
39) 1,2-Dichloropropane	7.60	63	614219	9.79	ppbv	95
40) 1,4-Dioxane	7.81	88	231928	10.65	ppbv	93
41) Tetrahydrofuran	6.03	42	614146	10.03	ppbv	99
42) Bromodichloromethane	7.77	83	1347783	11.02	ppbv	99
43) Methyl Methacrylate	8.00	69	642569	10.79	ppbv	99

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Manual Integrations
 APPROVED

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

Quant Time: Mar 24 12:26:33 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	2643106	9.81	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	743082	12.27	ppbv	98
46) cis-1,3-Dichloropropene	8.68	75	945398	11.55	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	664008	9.92	ppbv	99
48) Dibromochloromethane	10.28	129	1161119	11.07	ppbv	99
49) Bromoform	13.02	173	941190	11.01	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	1576349	10.31	ppbv	99
51) 2-Hexanone	10.11	43	1206403	10.98	ppbv #	99
52) Tetrachloroethene	11.20	164	582226	9.92	ppbv	97
53) Toluene	9.79	91	1846327	10.71	ppbv	99
54) 1,2-Dibromoethane	10.59	107	980788	10.73	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.10	131	804611	9.82	ppbv	98
57) Chlorobenzene	12.13	112	1352643	9.49	ppbv	99
58) Ethyl Benzene	12.69	91	2365569	10.24	ppbv	100
59) m/p-Xylene	12.98	91	4032978m	19.96	ppbv	
60) o-Xylene	13.67	91	1933384	10.08	ppbv	100
61) Styrene	13.51	104	1168636	11.23	ppbv	99
62) Isopropylbenzene	14.65	105	2811222	9.75	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	1250817	8.42	ppbv	99
64) n-propylbenzene	15.54	120	748916	9.90	ppbv	98
65) tert-Butylbenzene	16.72	119	2491066	9.61	ppbv	98
66) Benzyl Chloride	16.97	91	598258	12.19	ppbv	99
67) sec-Butylbenzene	17.28	105	3577148	9.65	ppbv	100
69) p-Isopropyltoluene	17.63	119	2989394	9.88	ppbv	99
70) n-Butylbenzene	18.53	91	3122720	10.01	ppbv	100
71) 2-Chlorotoluene	15.43	91	2093668	9.78	ppbv	100
72) 4-Ethyltoluene	15.82	105	2295927	10.14	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	2058015	9.97	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	2177778	9.69	ppbv	95
75) 1,3-Dichlorobenzene	16.97	146	1354087	9.46	ppbv	100
76) 1,4-Dichlorobenzene	17.12	146	1318216	9.26	ppbv	97
77) 1,2-Dichlorobenzene	17.80	146	1322298	9.32	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	1200722	9.16	ppbv	100
79) Naphthalene	22.17	128	2205555m	12.84	ppbv	
80) Naphthalene,2-methyl-	24.95	142	506820	11.01	ppbv	98
81) 1,2,4-Trichlorobenzene	21.90	180	1266460	10.77	ppbv	100

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

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Instrument :
MSVOA_L
ClientSampleId :
VL0323ABS01

Manual Integrations
APPROVED

Quant Time: Mar 24 12:26:33 2022

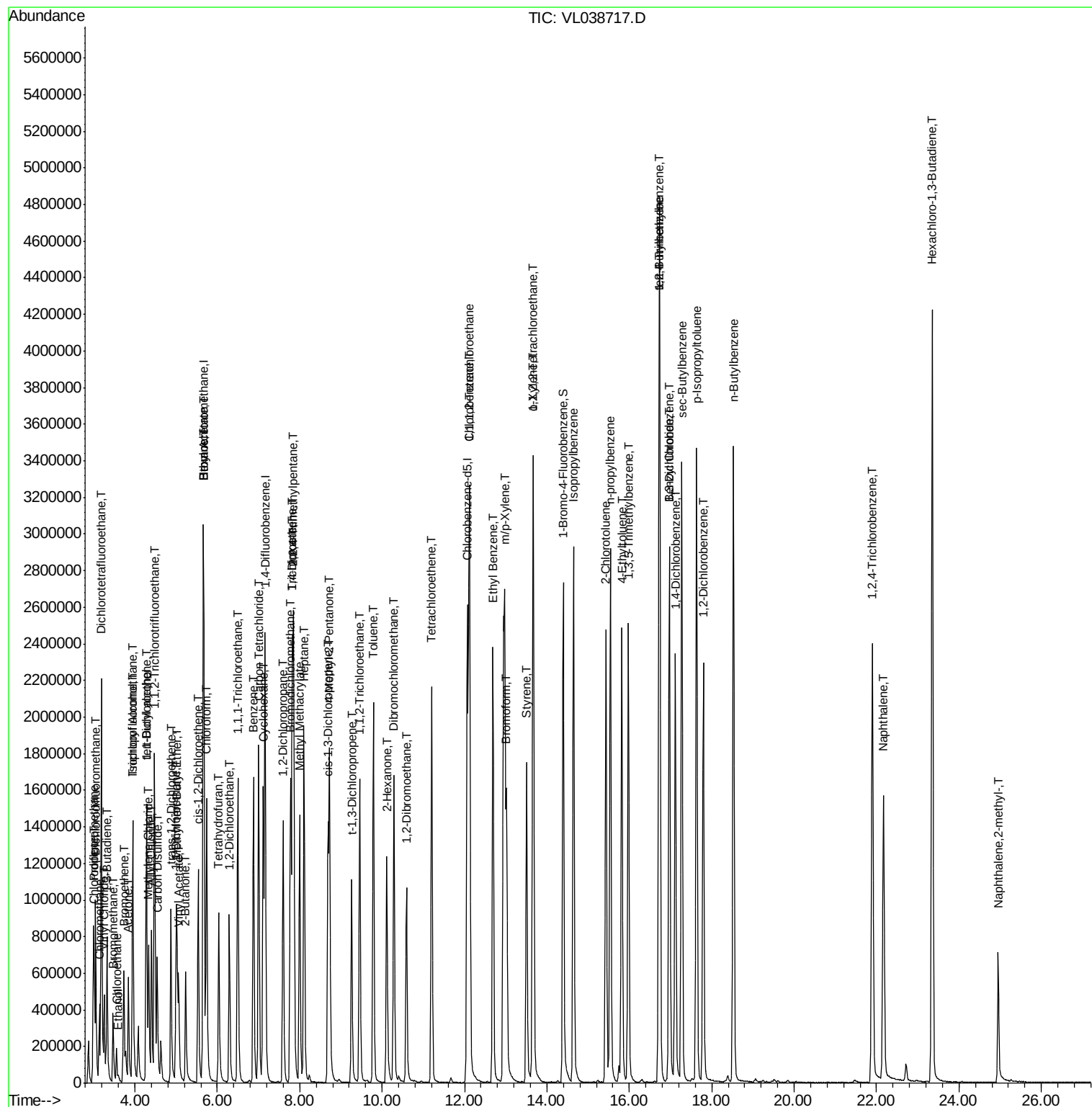
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122

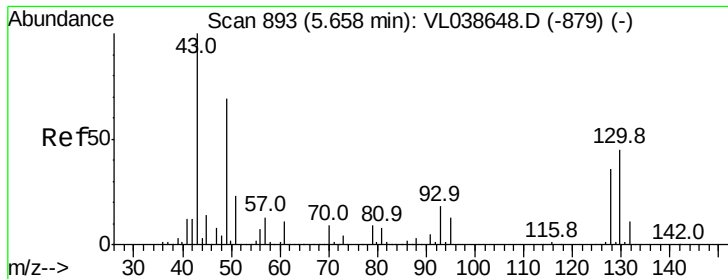
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

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

Response via : Initial Calibration

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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44 VL0323ABS01

Tgt Ion:

Ion Ratio

49 100

128 53.

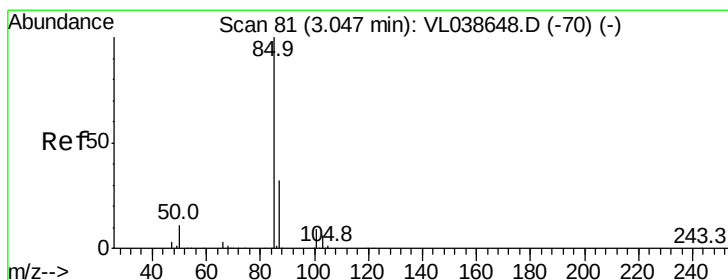
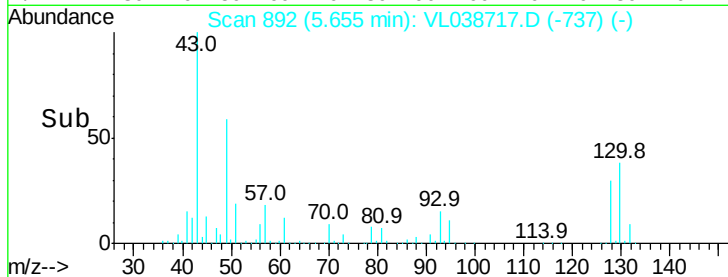
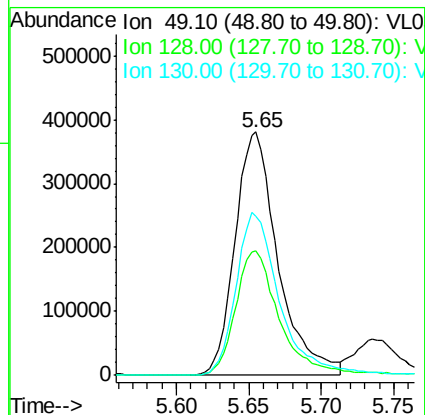
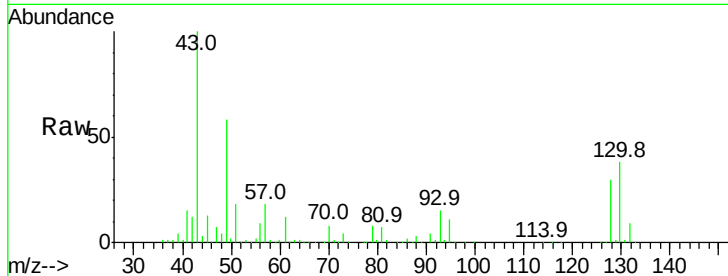
130 68.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#2

Dichlorodifluoromethane

Concen: 8.42 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL038717.D

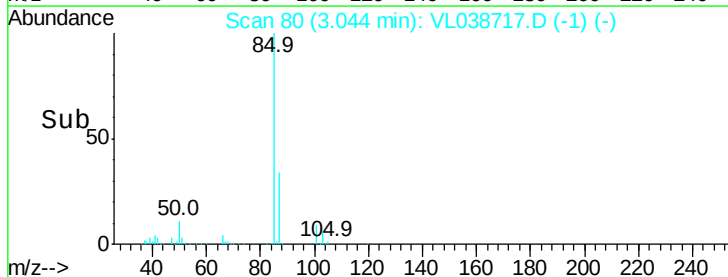
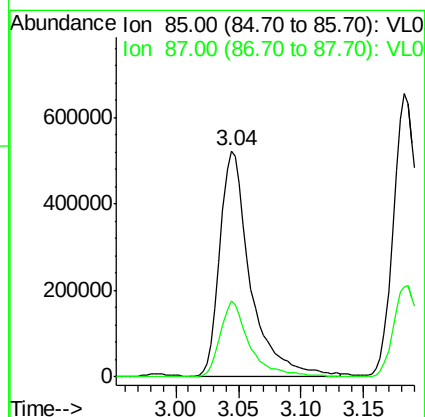
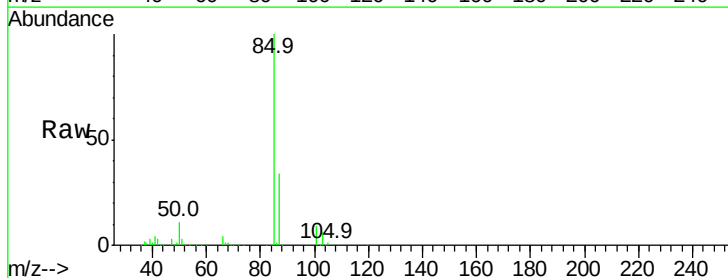
Acq: 23 Mar 2022 15:44

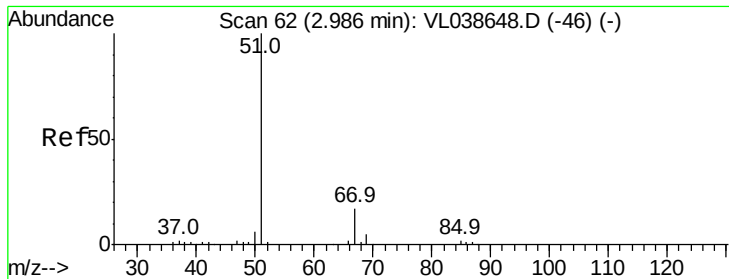
Tgt Ion: 85 Resp: 883862

Ion Ratio Lower Upper

85 100

87 33.5 26.0 39.0





#3

Chlorodifluoromethane

Concen: 9.79 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: VL0323ABS01

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

51 100

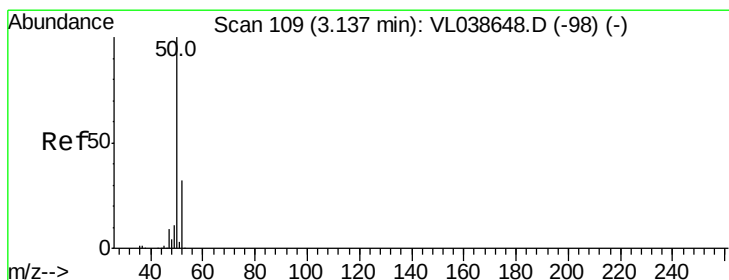
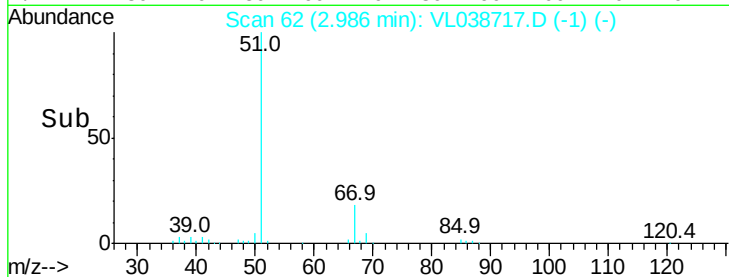
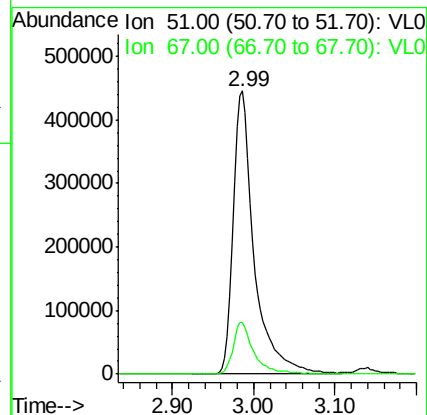
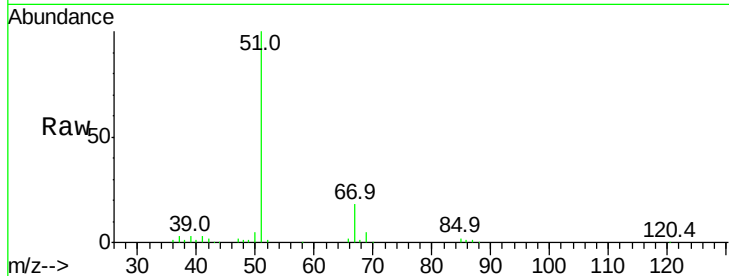
67 18.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#4

Chloromethane

Concen: 9.67 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL038717.D

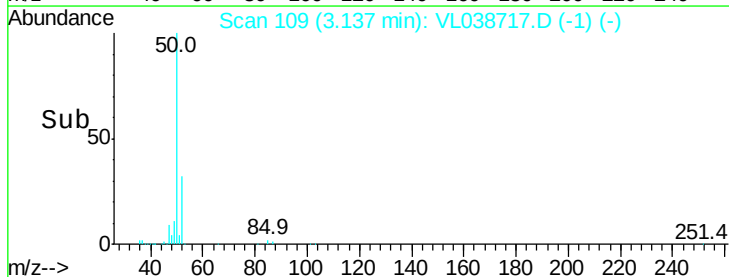
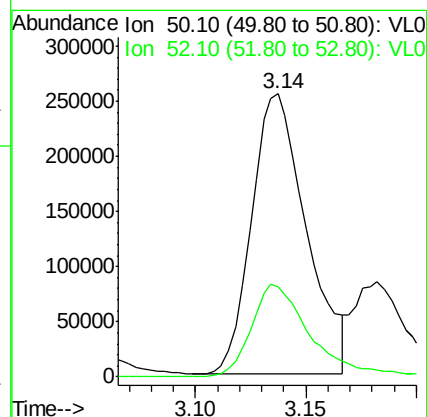
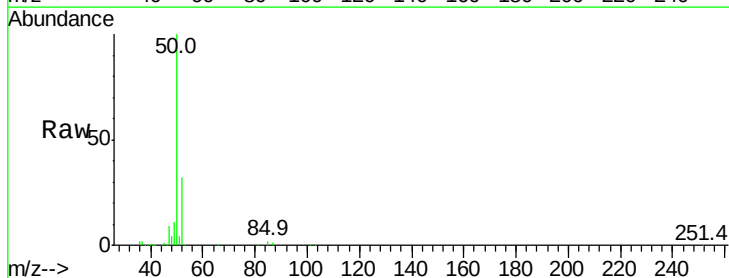
Acq: 23 Mar 2022 15:44

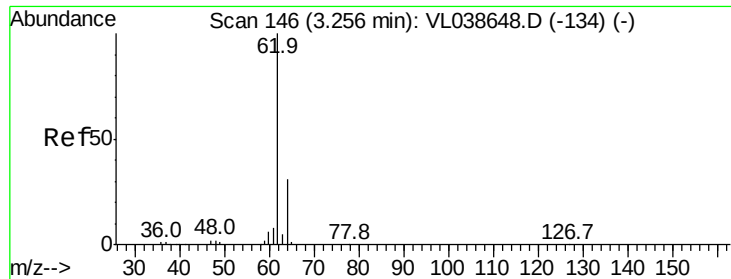
Tgt Ion: 50 Resp: 437956

Ion Ratio Lower Upper

50 100

52 32.1 25.5 38.3





#5

Vinyl Chloride

Concen: 9.96 ppbv

RT: 3.25 Instrument: MSVOA_1

Delta R.T. -0.01 min

Lab File: VL0323ABS01

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

62 100

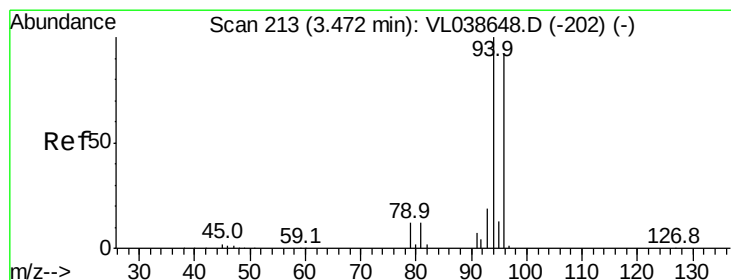
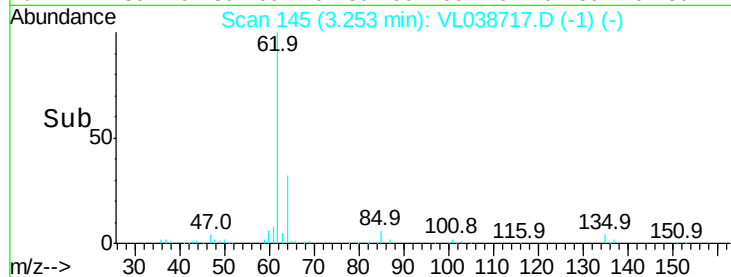
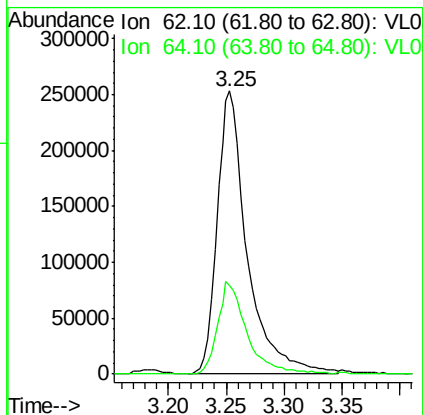
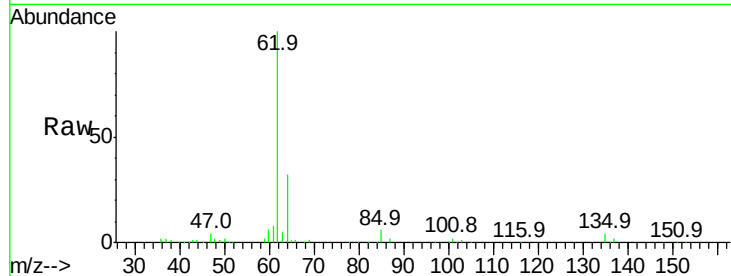
64 31.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#6

Bromomethane

Concen: 10.77 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL038717.D

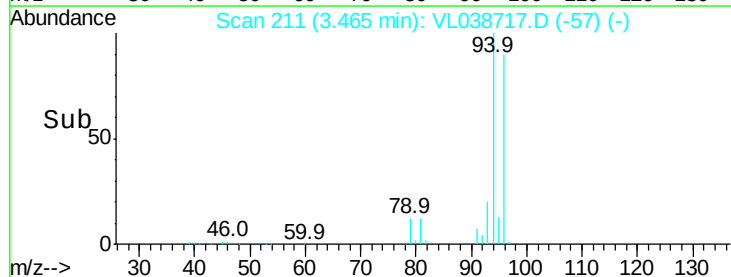
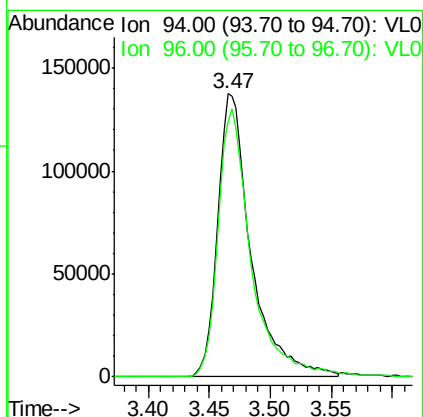
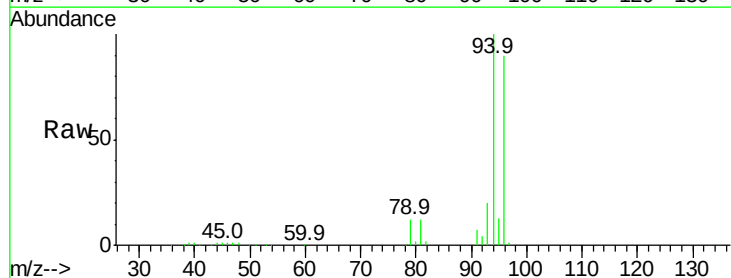
Acq: 23 Mar 2022 15:44

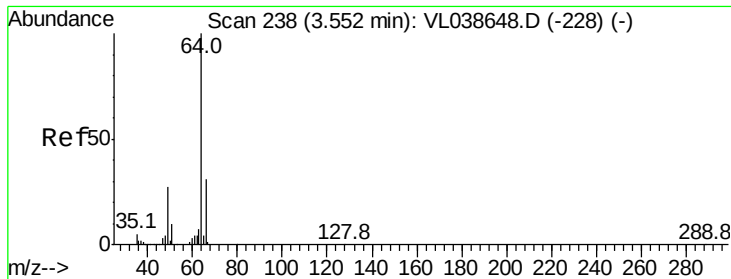
Tgt Ion: 94 Resp: 264220

Ion Ratio Lower Upper

94 100

96 90.2 73.3 109.9





#7

Chloroethane

Concen: 10.31 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

64 100

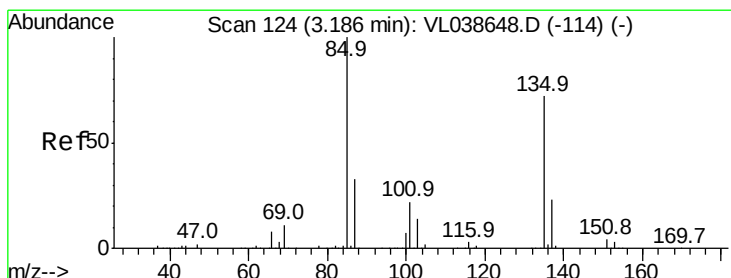
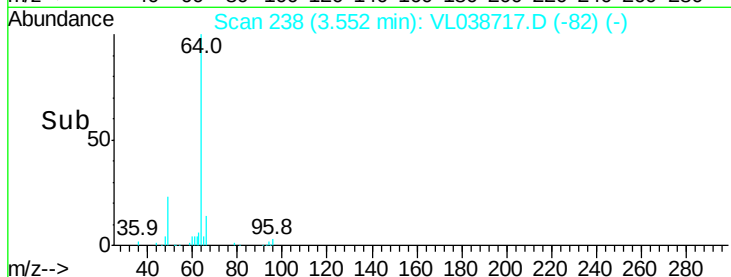
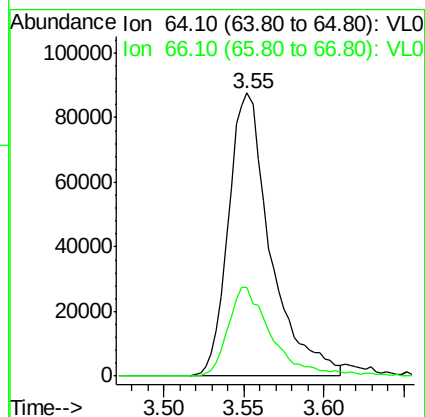
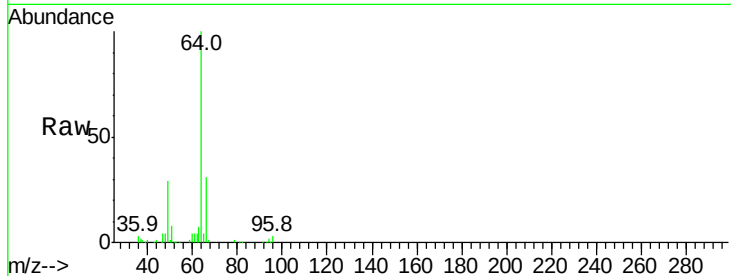
66 31.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#8

Dichlorotetrafluoroethane

Concen: 10.25 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL038717.D

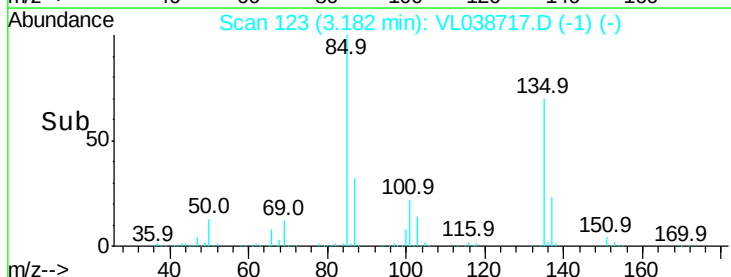
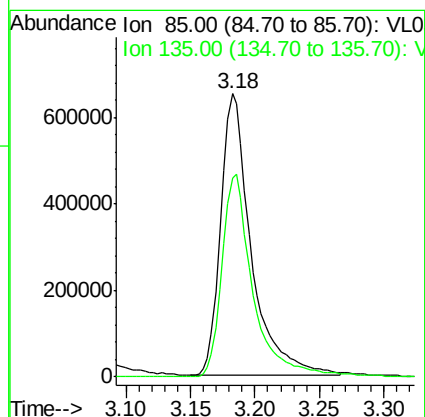
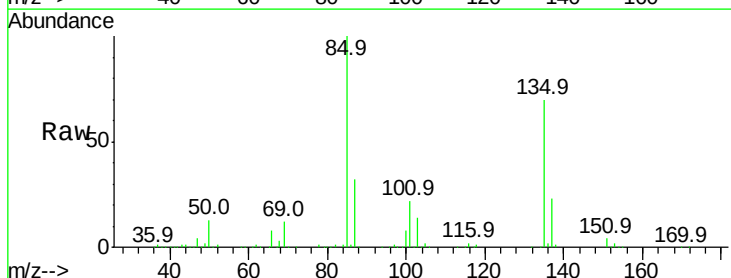
Acq: 23 Mar 2022 15:44

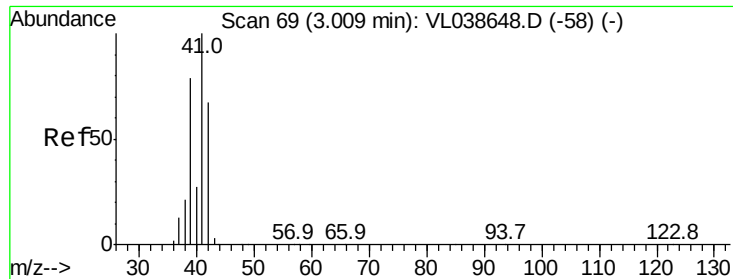
Tgt Ion: 85 Resp: 1074405

Ion Ratio Lower Upper

85 100

135 73.6 57.8 86.6





#9

Propene

Concen: 9.13 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44 VL0323ABS01

Tgt Ion:

Ion Ratio

41 100

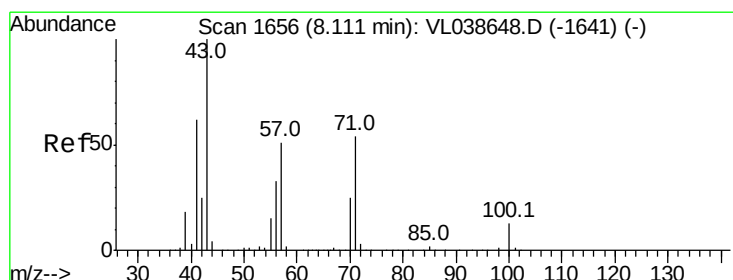
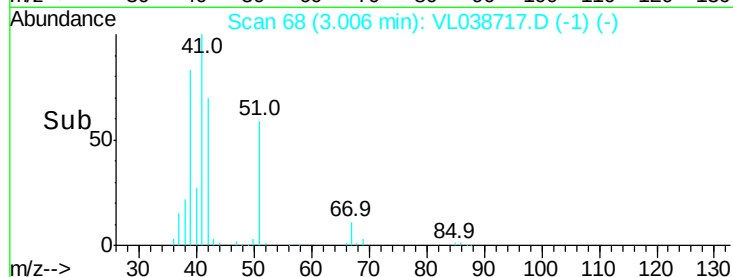
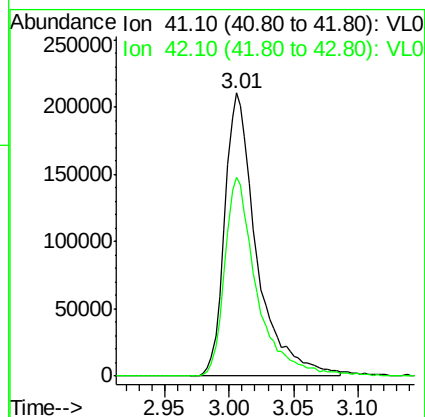
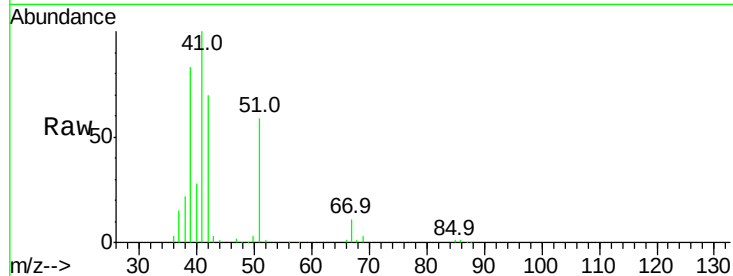
42 71.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#10

Heptane

Concen: 10.11 ppbv

RT: 8.11 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL038717.D

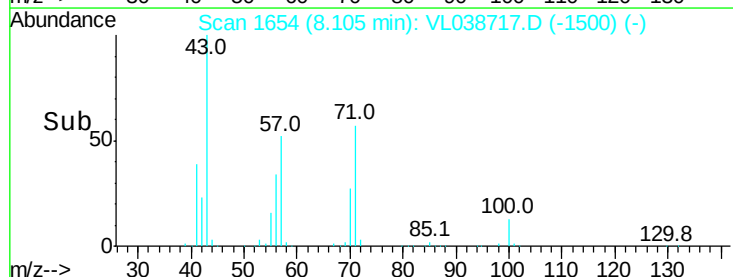
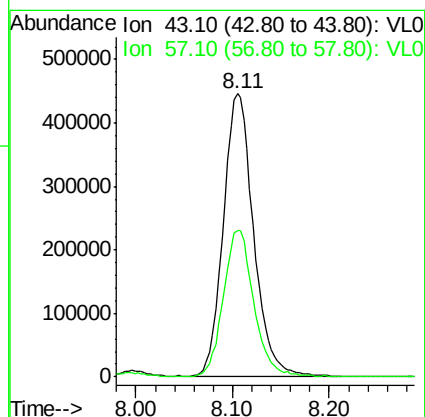
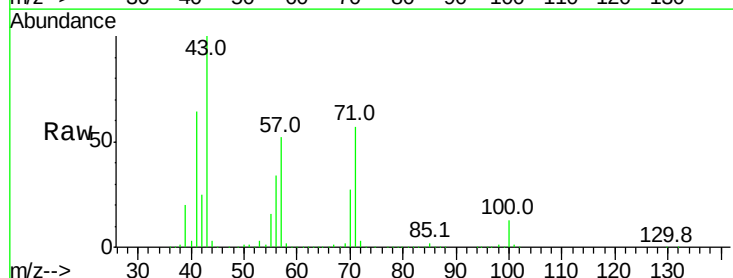
Acq: 23 Mar 2022 15:44

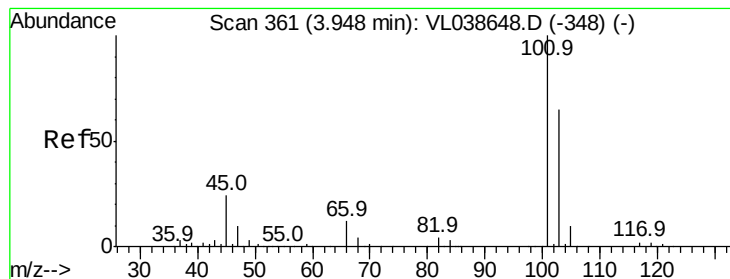
Tgt Ion: 43 Resp: 962445

Ion Ratio Lower Upper

43 100

57 52.6 41.4 62.2





#11

Trichlorofluoromethane

Concen: 11.18 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44

Tgt Ion:1

Ion Rati

101 100

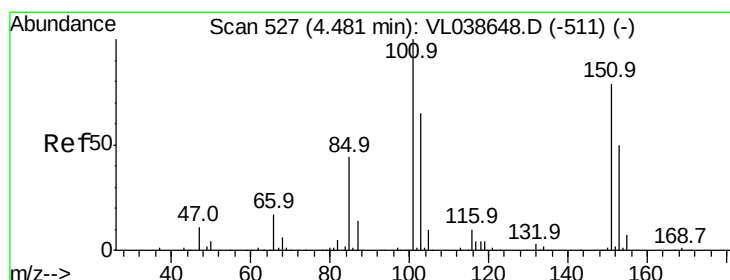
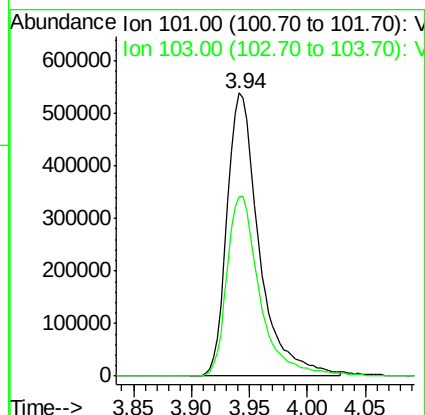
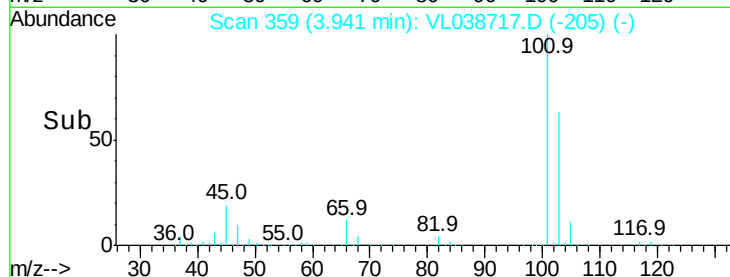
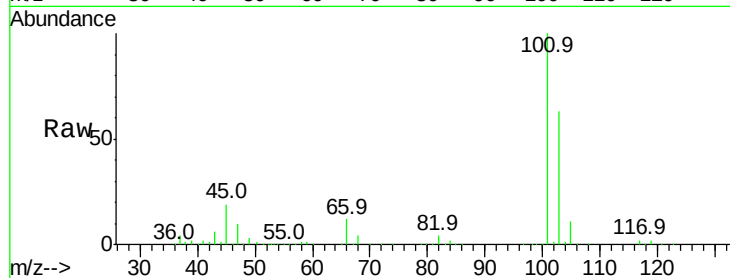
103 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.01 ppbv

RT: 4.47 min Scan# 525

Delta R.T. -0.01 min

Lab File: VL038717.D

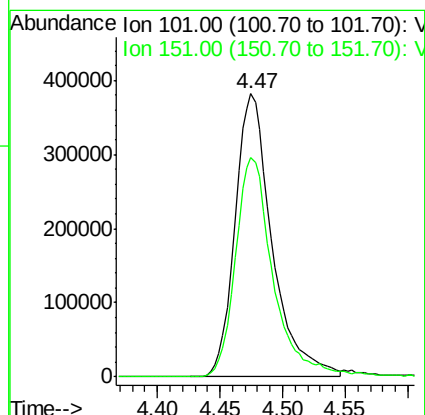
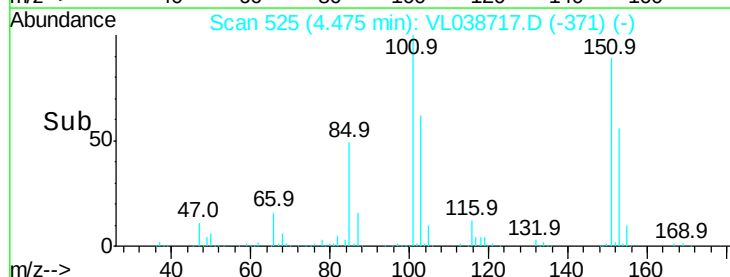
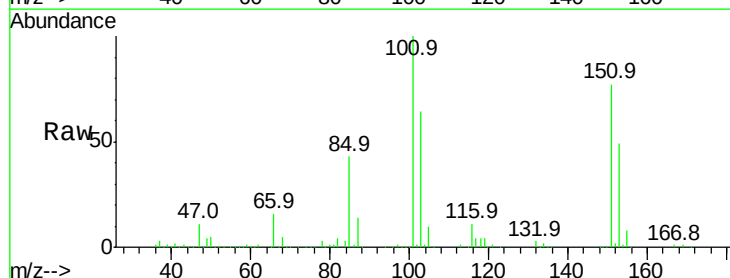
Acq: 23 Mar 2022 15:44

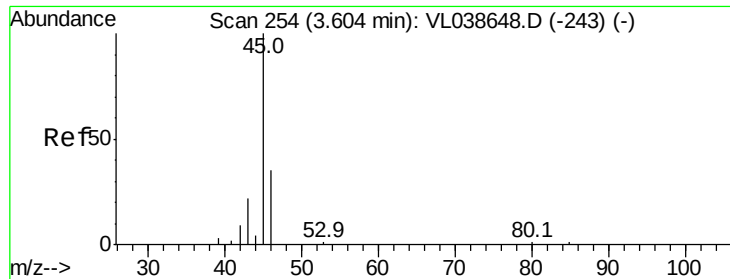
Tgt Ion:101 Resp: 785437

Ion Ratio Lower Upper

101 100

151 79.2 62.9 94.3





#13

Ethanol

Concen: 8.61 ppbv m

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44 VL0323ABS01

Tgt Ion:

Ion Ratio

45 100

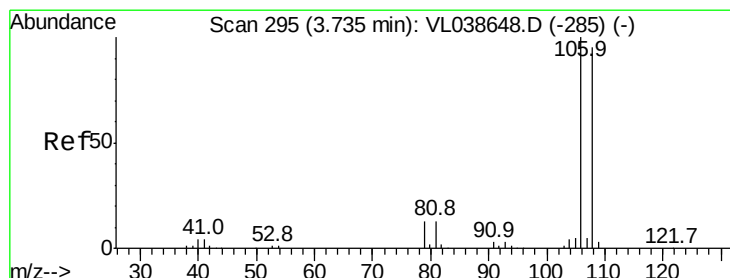
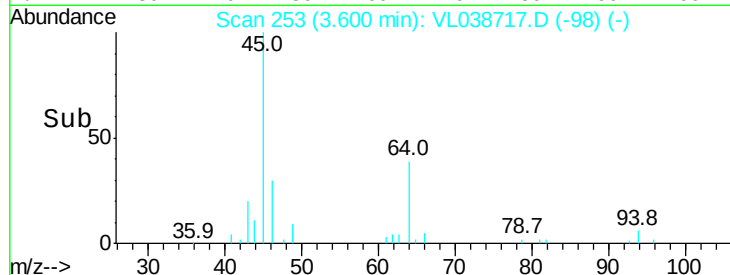
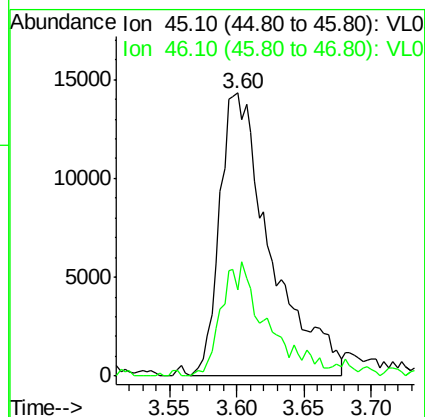
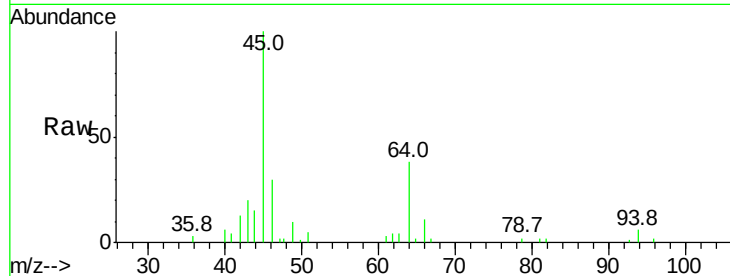
46 40.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#14

Bromoethene

Concen: 10.91 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.00 min

Lab File: VL038717.D

Acq: 23 Mar 2022 15:44

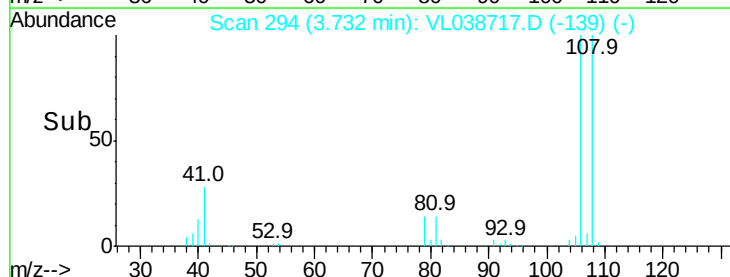
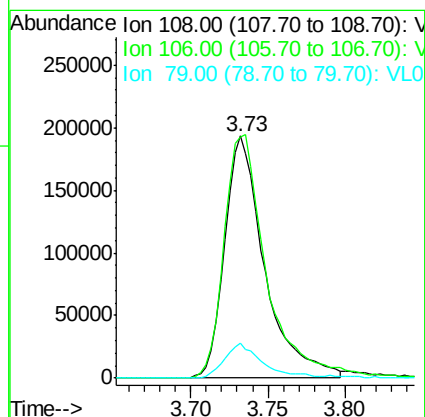
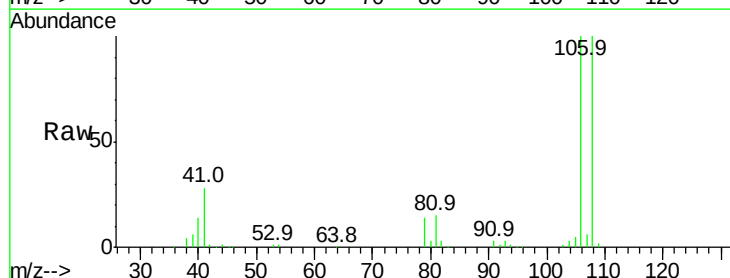
Tgt Ion:108 Resp: 345871

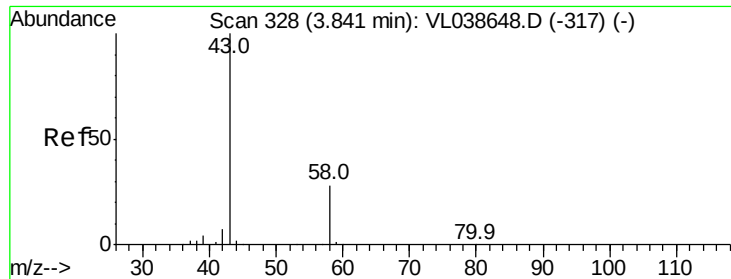
Ion Ratio Lower Upper

108 100

106 108.1 88.3 132.5

79 14.7 11.2 16.8





#15

Acetone

Concen: 10.29 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

43 100

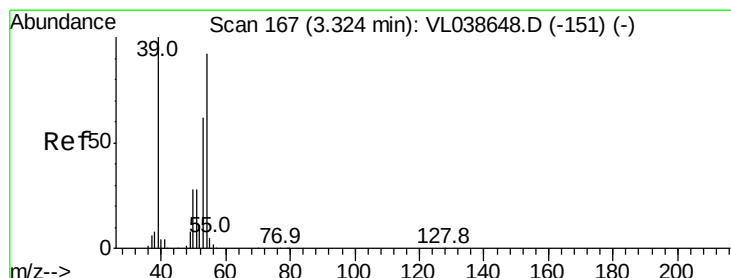
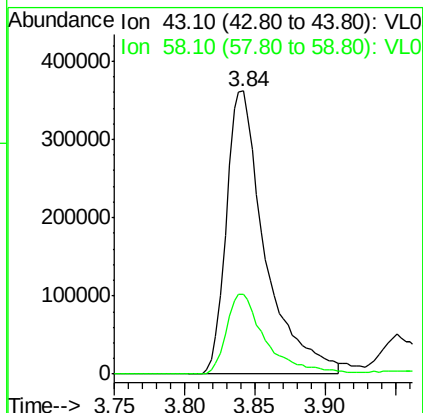
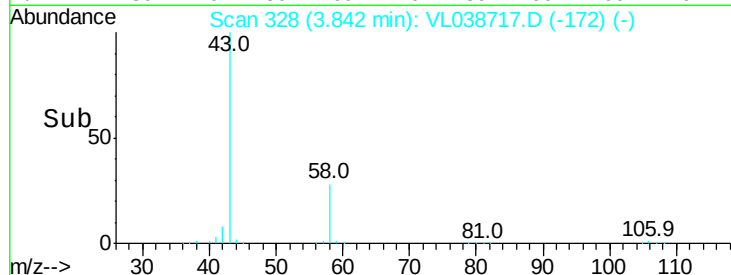
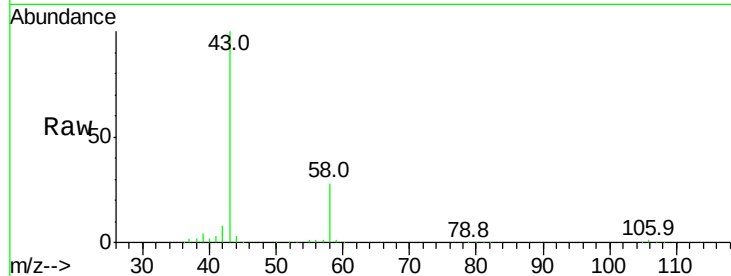
58 29.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#16

1,3-Butadiene

Concen: 10.61 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL038717.D

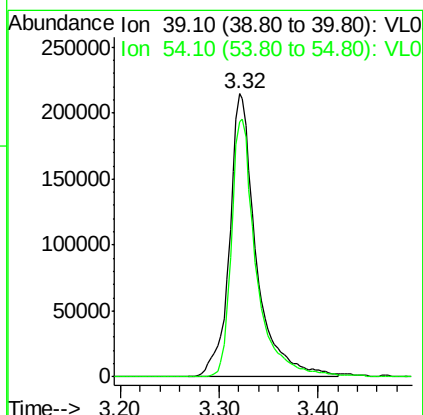
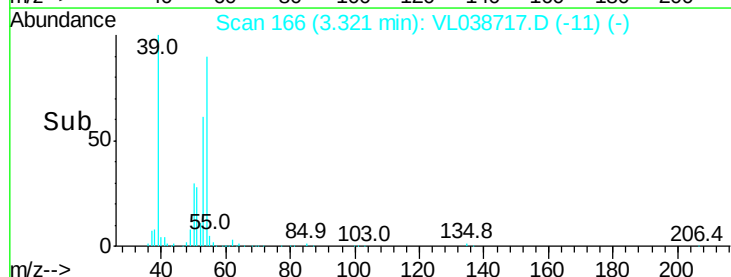
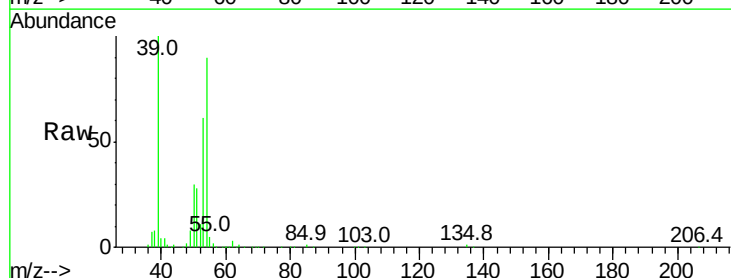
Acq: 23 Mar 2022 15:44

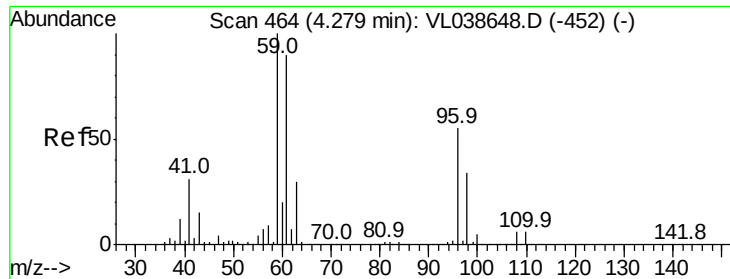
Tgt Ion: 39 Resp: 405720

Ion Ratio Lower Upper

39 100

54 85.5 69.1 103.7





#17

tert-Butyl alcohol

Concen: 12.31 ppbv

RT: 4.28 Instrument: MSVOA_1

Delta R.T. -0.00 min

Lab File: VL0323ABS01

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

59 100

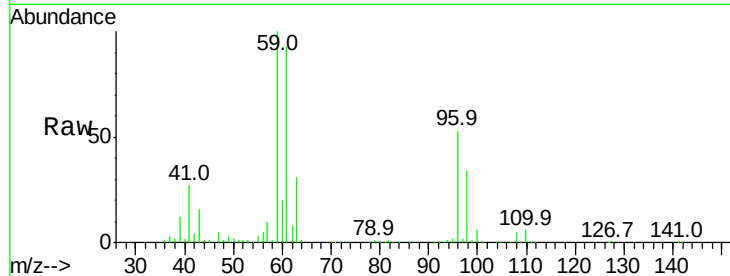
57 10.

Manual Integrations

APPROVED

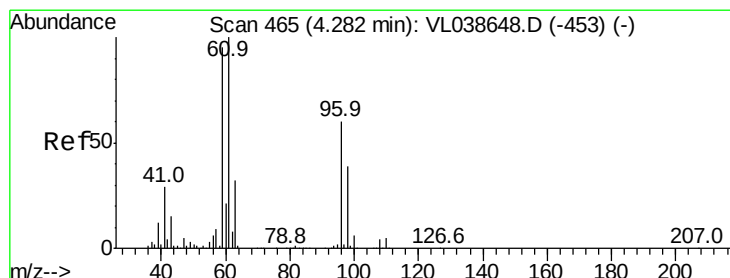
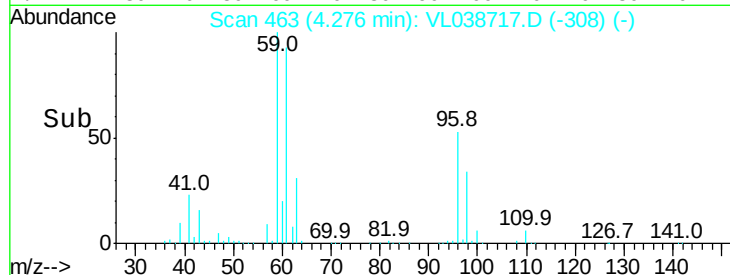
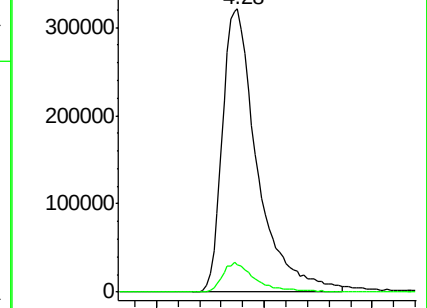
Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 11.17 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.00 min

Lab File: VL038717.D

Acq: 23 Mar 2022 15:44

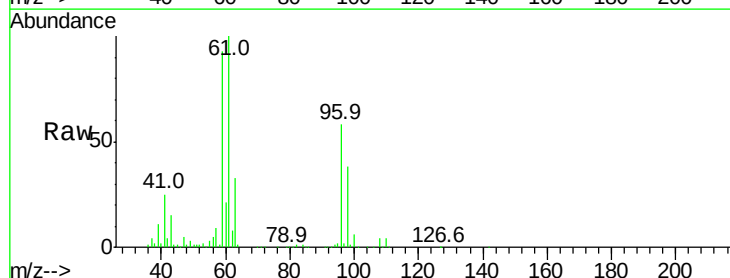
Tgt Ion: 96 Resp: 357804

Ion Ratio Lower Upper

96 100

61 172.6 132.4 198.6

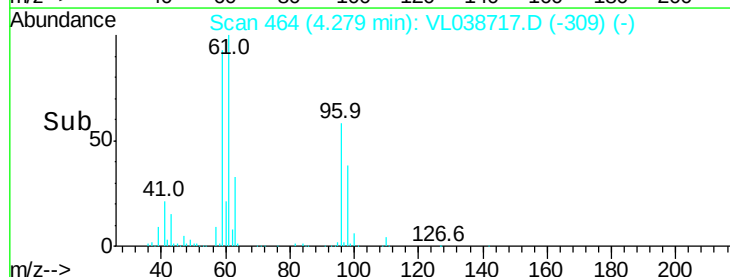
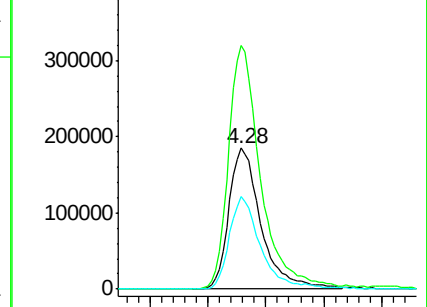
98 65.7 51.6 77.4

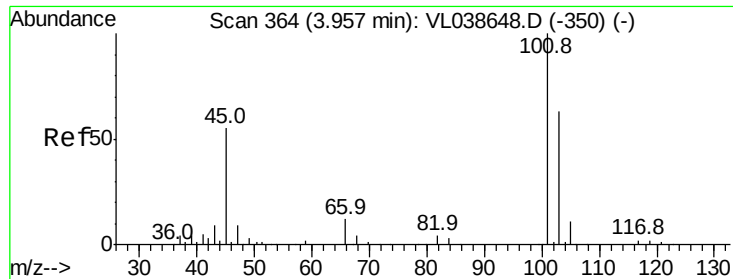


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 11.02 ppbv

RT: 3.95

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

45 100

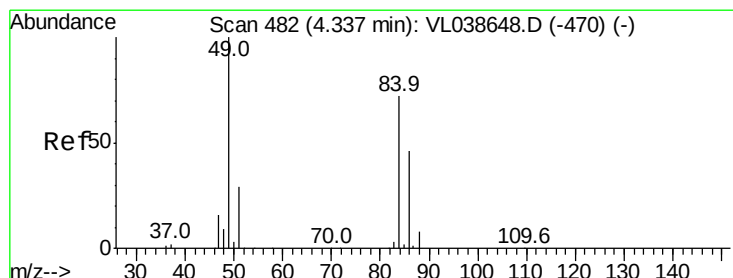
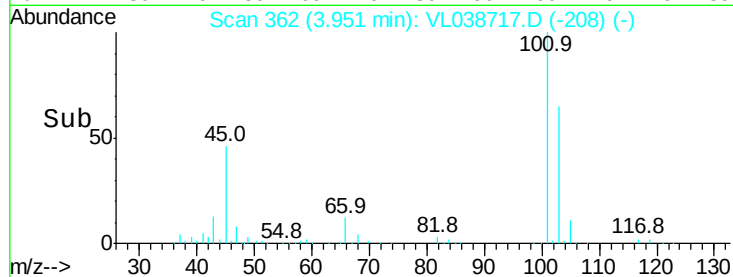
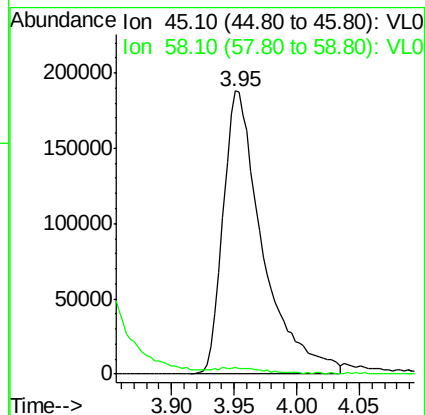
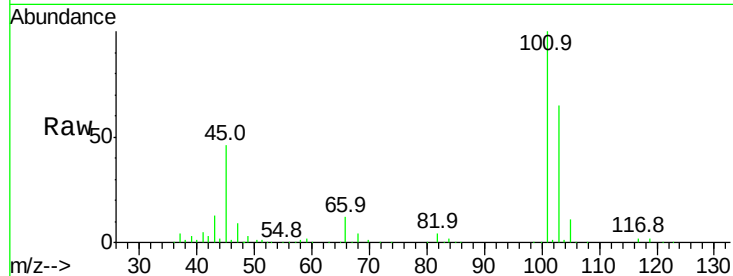
58 2.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#20

Methylene Chloride

Concen: 10.19 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.00 min

Lab File: VL038717.D

Acq: 23 Mar 2022 15:44

Tgt Ion: 84 Resp: 289196

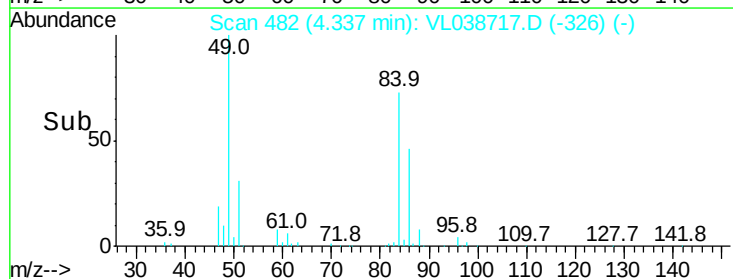
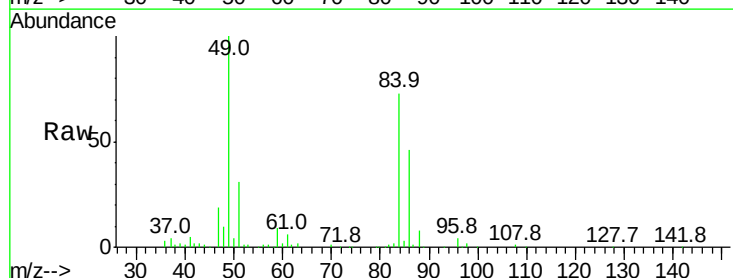
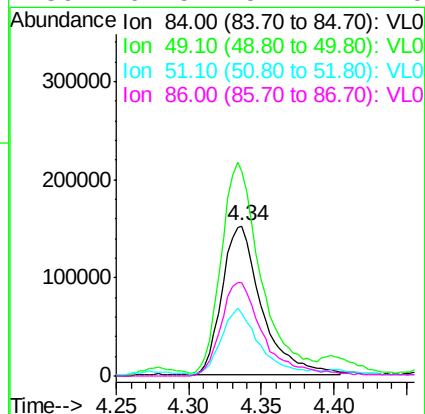
Ion Ratio Lower Upper

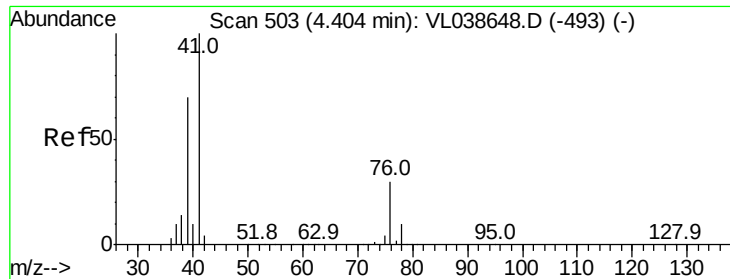
84 100

49 136.2 111.2 166.8

51 40.9 32.8 49.2

86 62.5 51.4 77.0



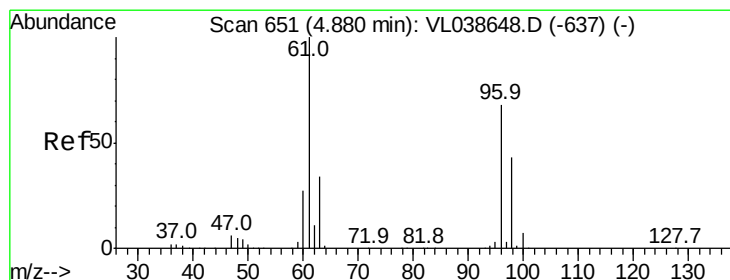
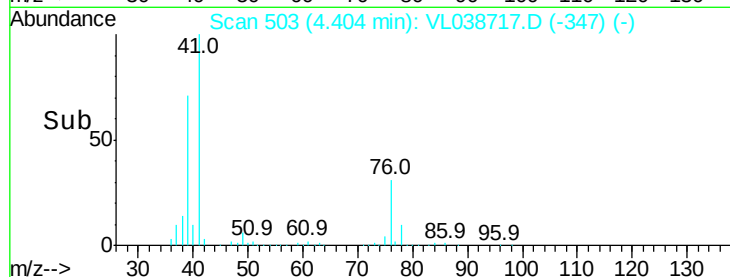
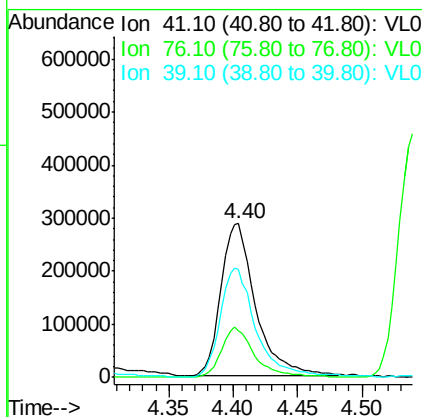
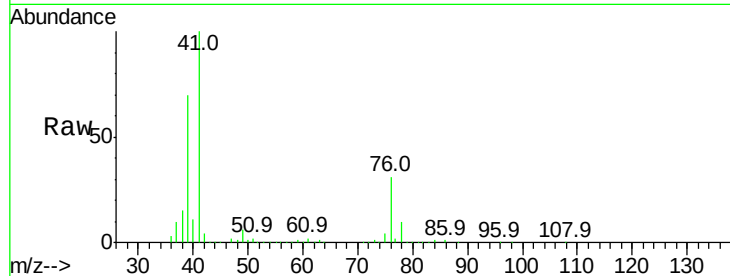


#21
 Allyl Chloride
 Concen: 10.94 ppbv
 RT: 4.40
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion:
 Ion Ratio
 41 100
 76 32.
 39 73.

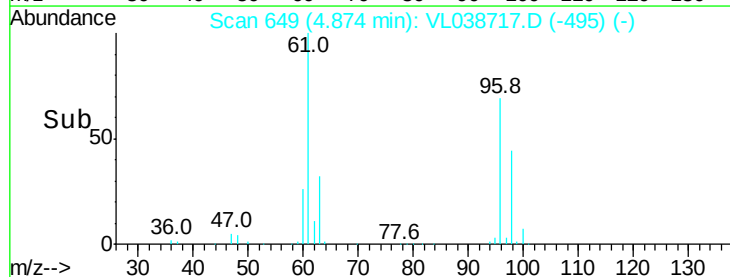
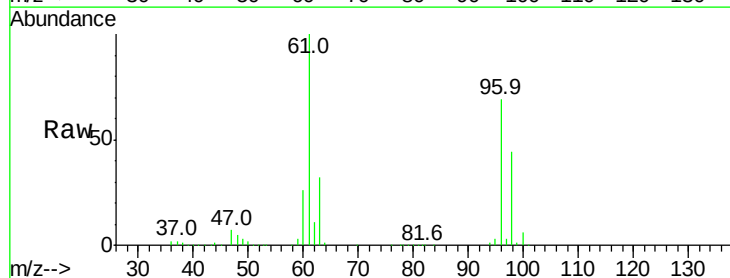
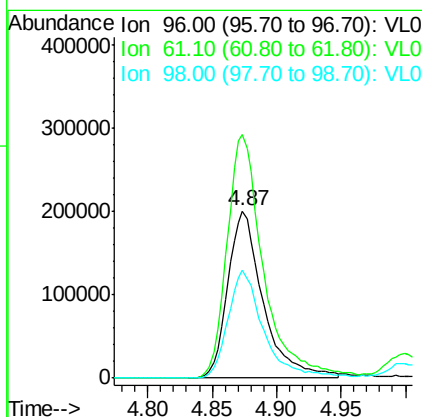
Manual Integrations
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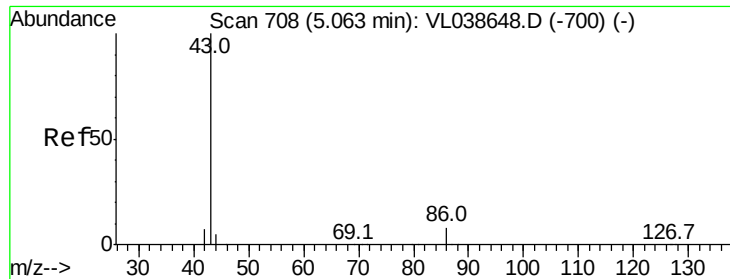
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#22
 trans-1,2-Dichloroethene
 Concen: 11.51 ppbv
 RT: 4.87 min Scan# 649
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 96 Resp: 382288
 Ion Ratio Lower Upper
 96 100
 61 145.7 118.3 177.5
 98 64.4 51.3 76.9



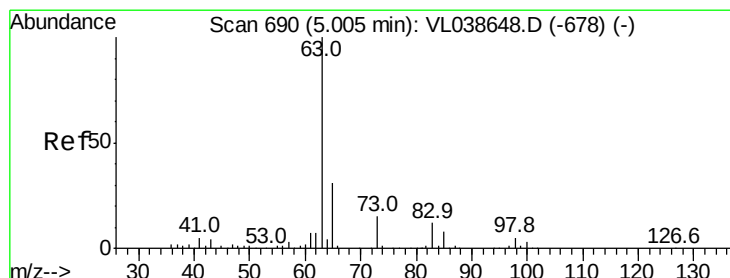
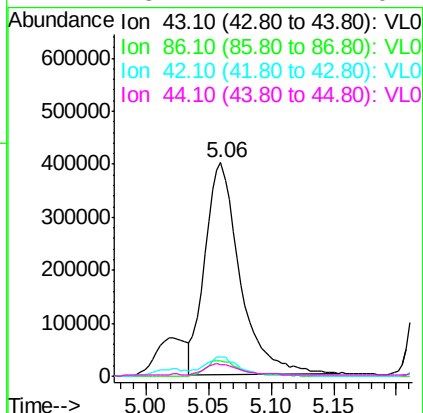
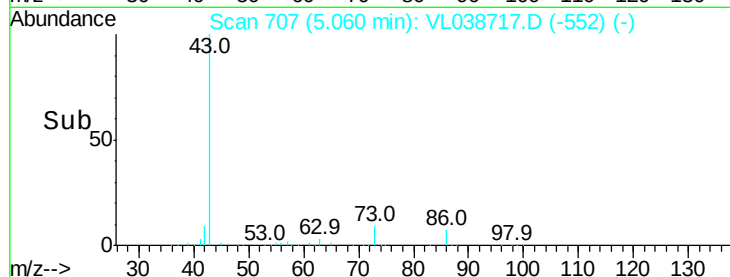
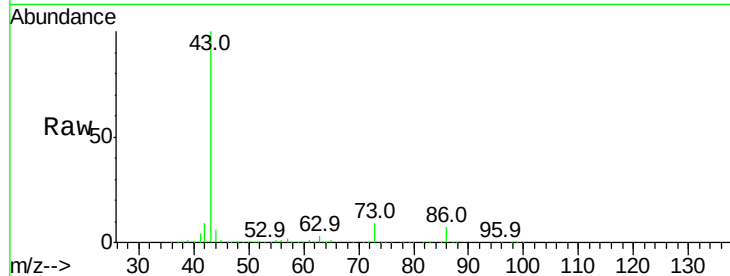


#23
 Vinyl Acetate
 Concen: 11.91 ppbv
 RT: 5.06
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion: 43
 Ion Ratio: 100
 86 7.
 42 8.
 44 5.2 4.2 6.2

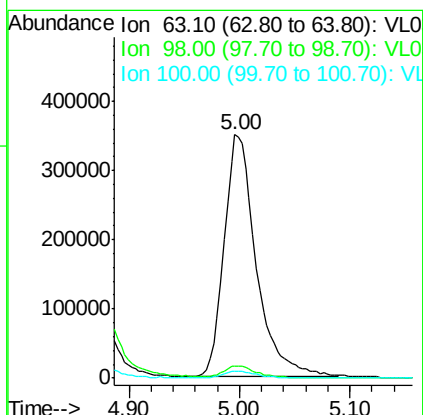
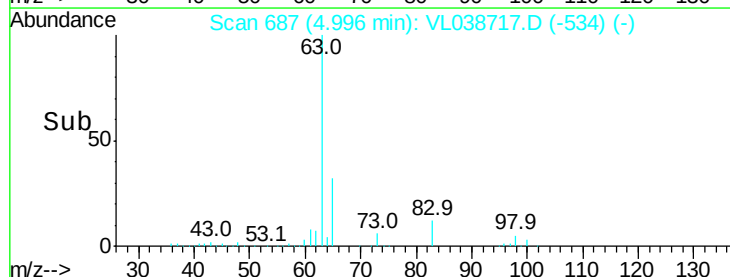
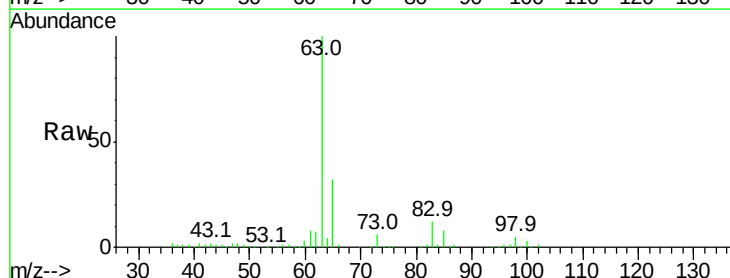
Manual Integrations
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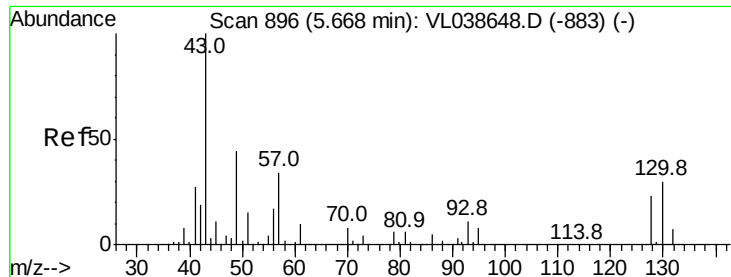
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#24
 1,1-Dichloroethane
 Concen: 11.03 ppbv
 RT: 5.00 min Scan# 687
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 63 Resp: 708488
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.5 7.5
 100 2.8 1.4 4.2



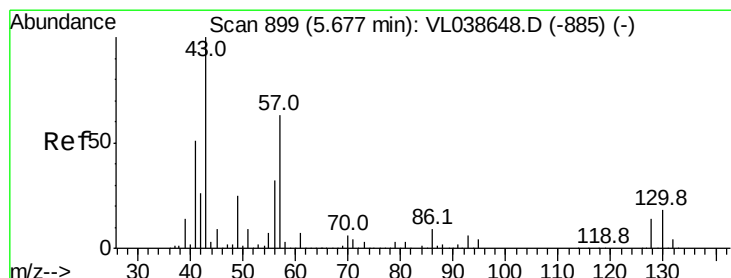
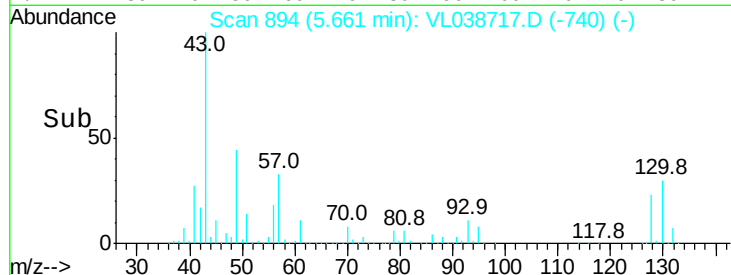
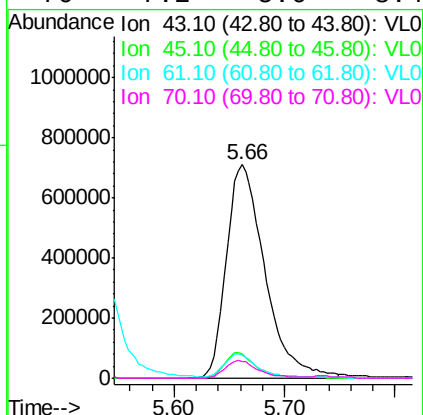
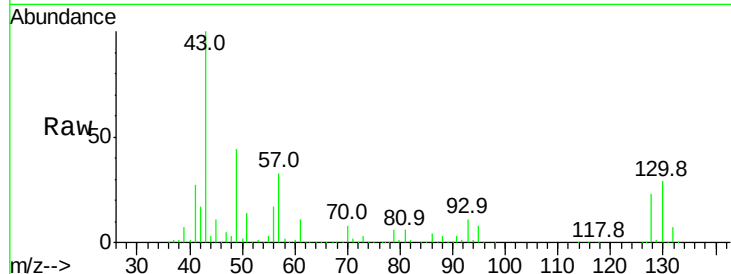


#25
Ethyl Acetate
Concen: 10.07 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 15:44

Tgt Ion: 43
Ion Ratio: 100
45 10.
61 10.
70 7.2 5.6 8.4

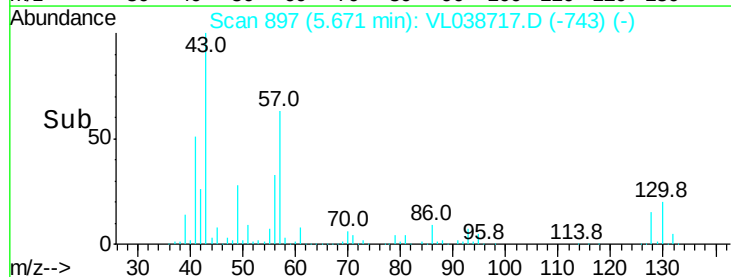
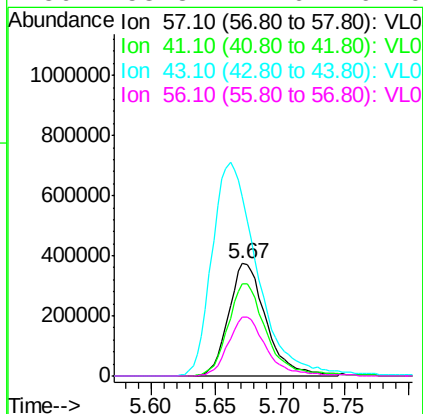
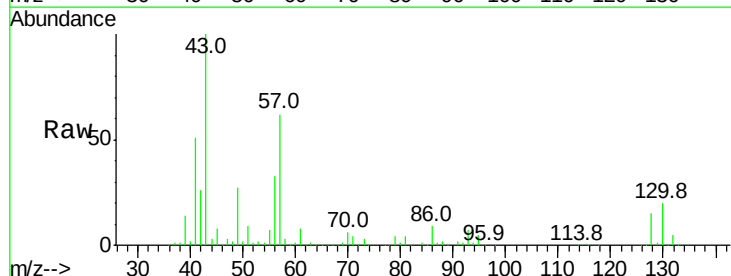
Manual Integrations
APPROVED

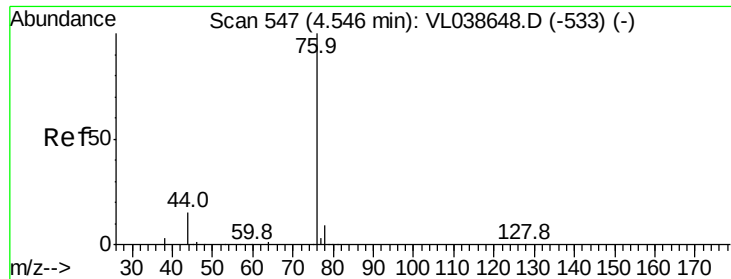
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#26
Hexane
Concen: 9.98 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 57 Resp: 757700
Ion Ratio Lower Upper
57 100
41 84.9 67.0 100.4
43 228.5 184.2 276.2
56 53.8 42.6 64.0





#27

Carbon Disulfide

Concen: 12.44 ppbv

RT: 4.54 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44

Tgt Ion:

Ion Ratio

76 100

44 15.

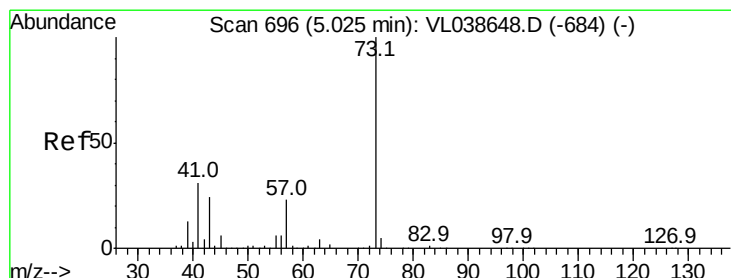
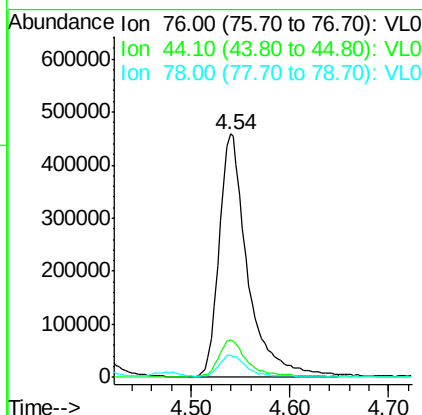
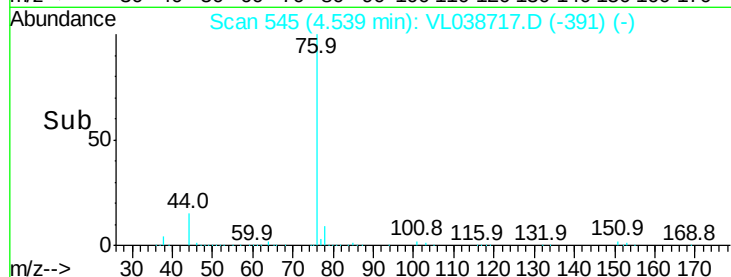
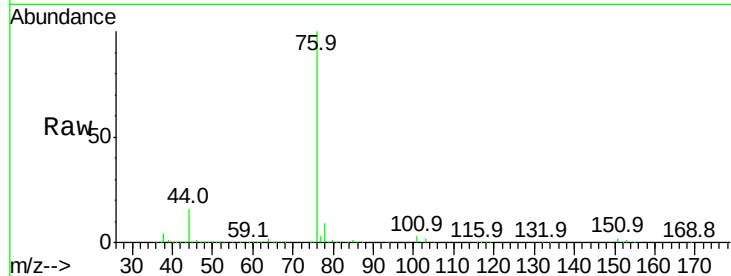
78 9.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#28

Methyl tert-Butyl Ether

Concen: 11.70 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL038717.D

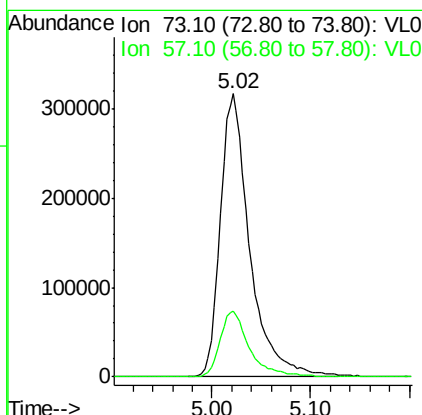
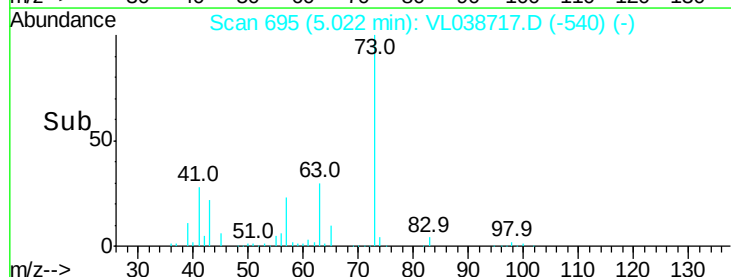
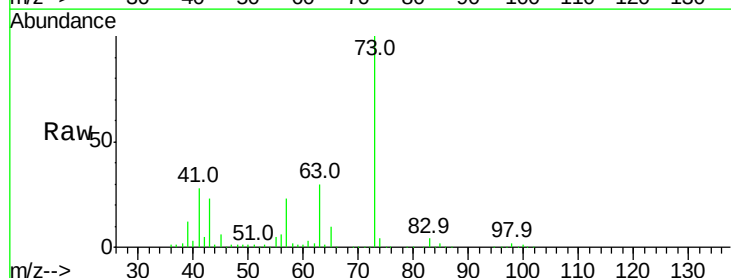
Acq: 23 Mar 2022 15:44

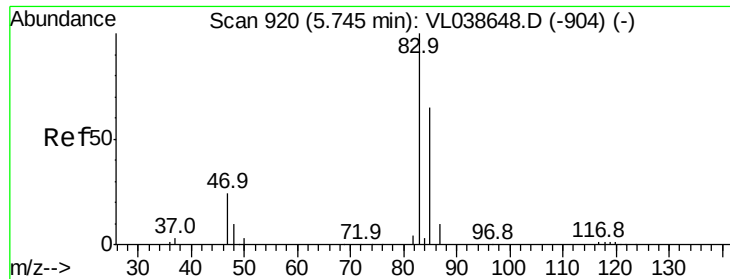
Tgt Ion: 73 Resp: 661874

Ion Ratio Lower Upper

73 100

57 23.4 19.2 28.8



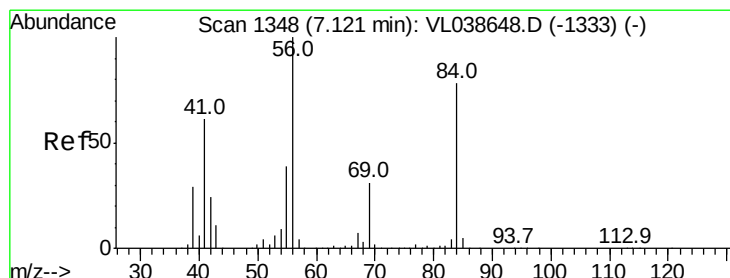
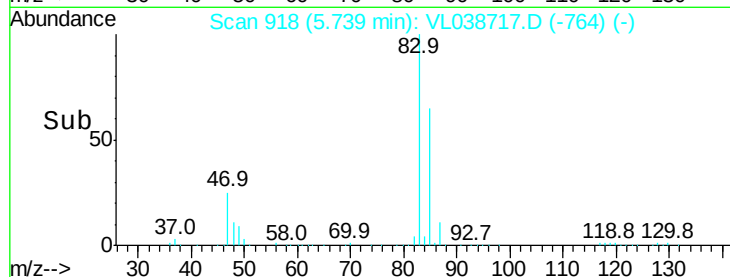
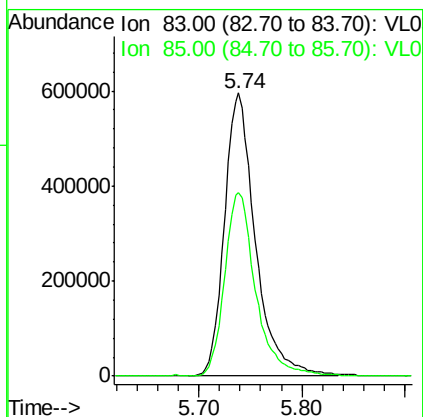
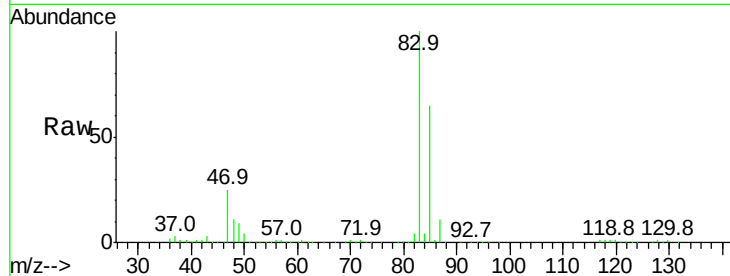


#29
Chloroform
Concen: 10.26 ppbv
RT: 5.74
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 15:44

Tgt Ion:
Ion Ratio
83 100
85 64.

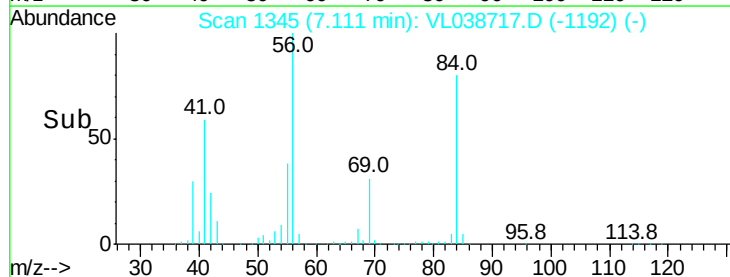
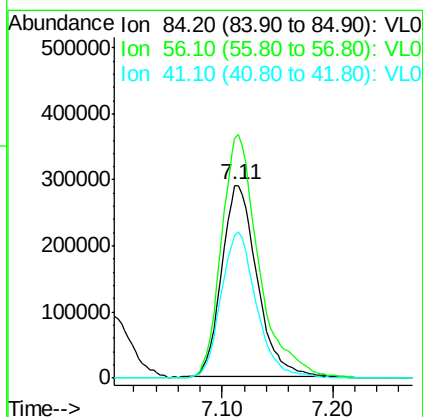
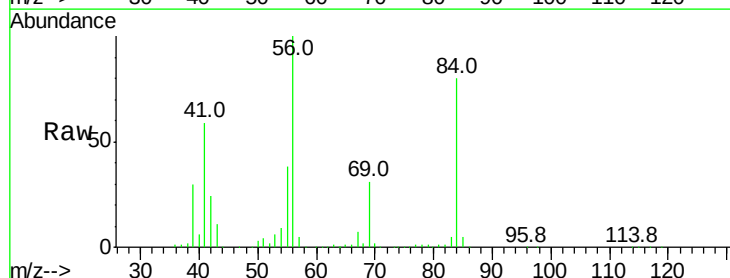
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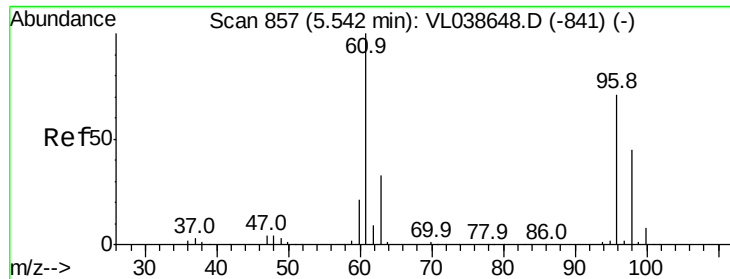
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#30
Cyclohexane
Concen: 9.79 ppbv
RT: 7.11 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 84 Resp: 646420
Ion Ratio Lower Upper
84 100
56 134.7 108.2 162.4
41 76.8 61.8 92.6



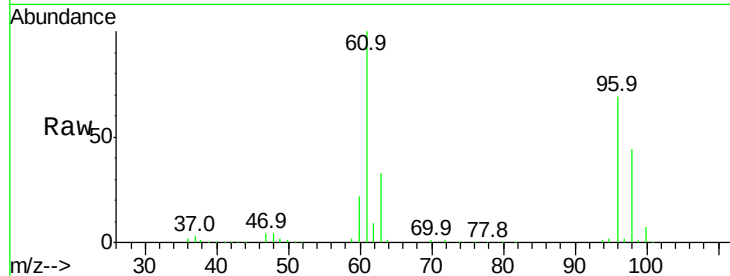


#31
 cis-1,2-Dichloroethene
 Concen: 10.62 ppbv
 RT: 5.54
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VL0323ABS01
 Acq: 23 Mar 2022 15:44

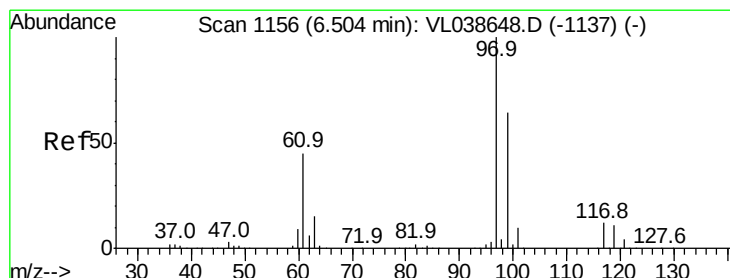
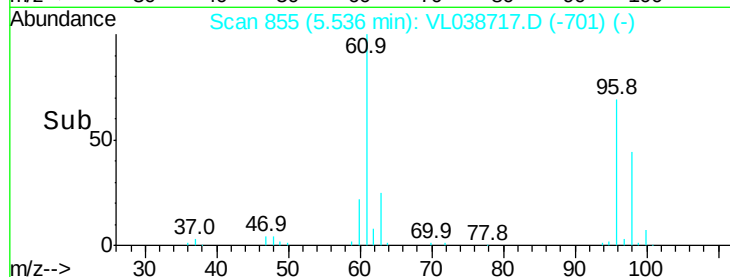
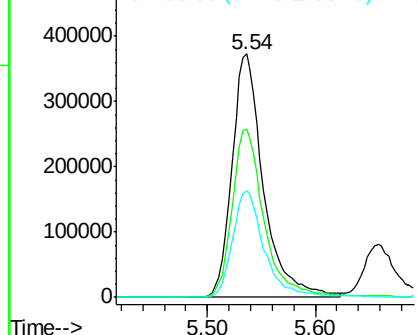
Tgt Ion:
 Ion Ratio
 61 100
 96 69.
 98 43.

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

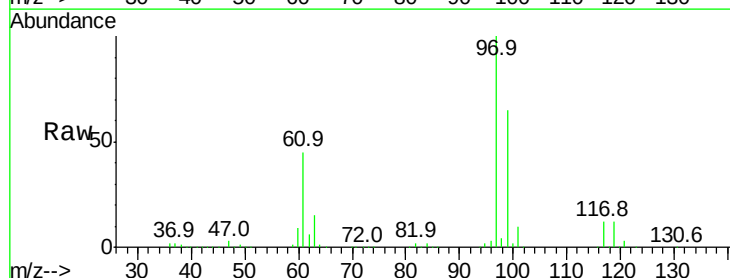


Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0

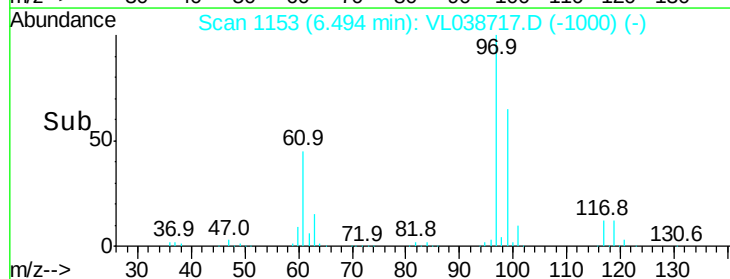
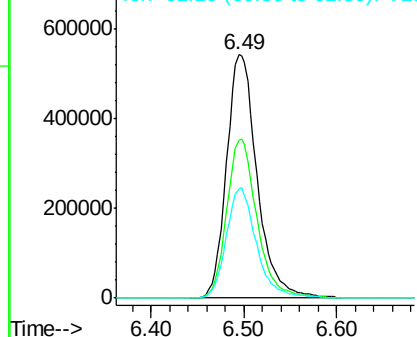


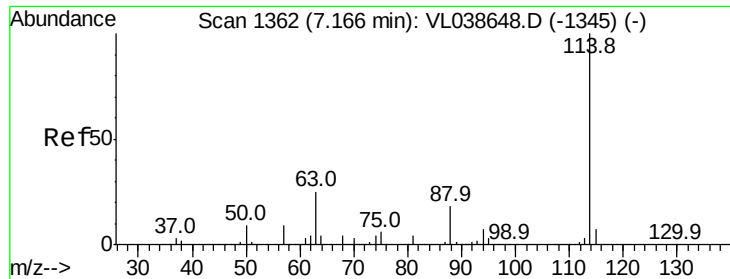
#32
 1,1,1-Trichloroethane
 Concen: 10.60 ppbv
 RT: 6.49 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 97 Resp: 1244071
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.8 77.8
 61 44.6 36.7 55.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0



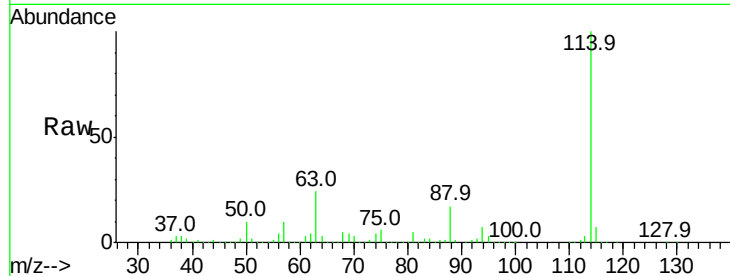


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.16
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VL0323ABS01
 Acq: 23 Mar 2022 15:44

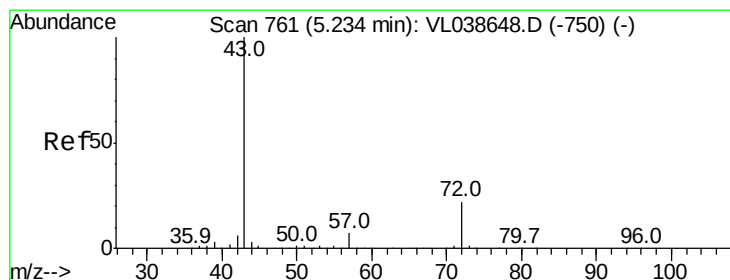
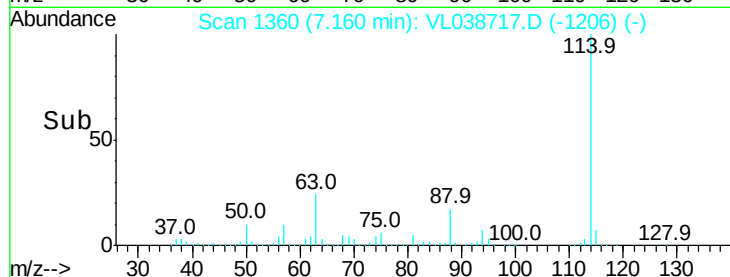
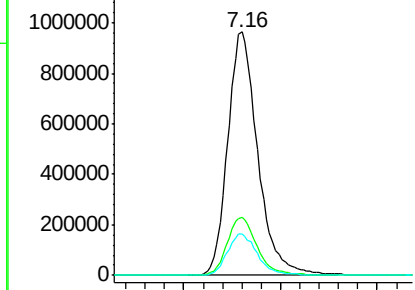
Tgt Ion: 114.10
 Ion Ratio: 100
 114 100
 63 24.1
 88 17.8

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

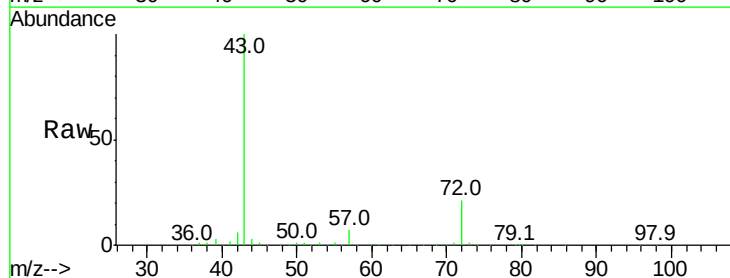


Abundance Ion 114.10 (113.80 to 114.80): VL038648.D (-1345) (-)
 Ion 63.10 (62.80 to 63.80): VL038648.D (-1345) (-)
 Ion 88.10 (87.80 to 88.80): VL038648.D (-1345) (-)

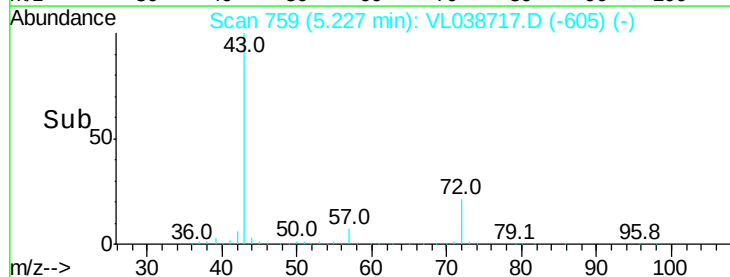
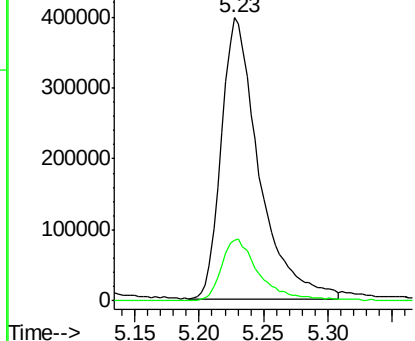


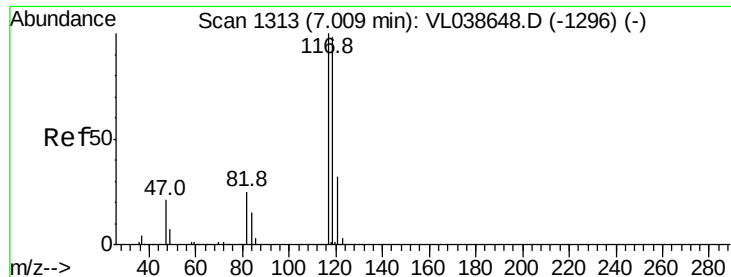
#34
 2-Butanone
 Concen: 9.77 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T.: -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 43 Resp: 803766
 Ion Ratio Lower Upper
 43 100
 72 23.1 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL038648.D (-750) (-)
 Ion 72.10 (71.80 to 72.80): VL038648.D (-750) (-)



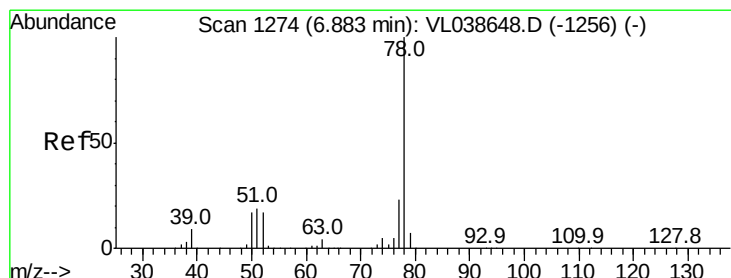
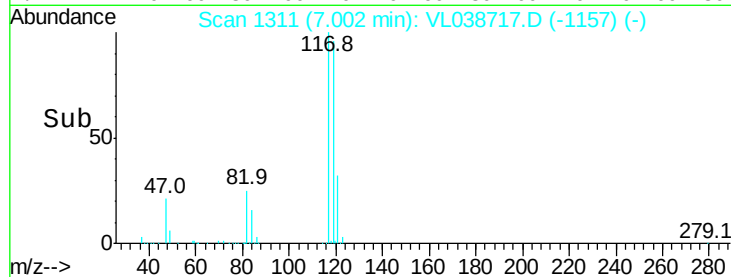
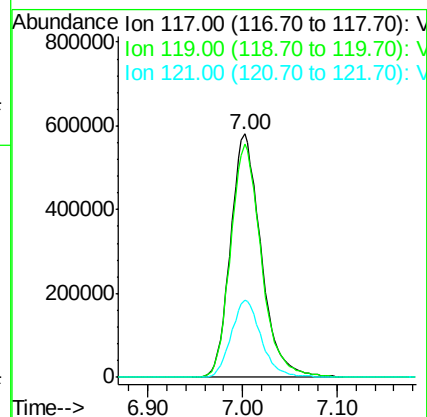
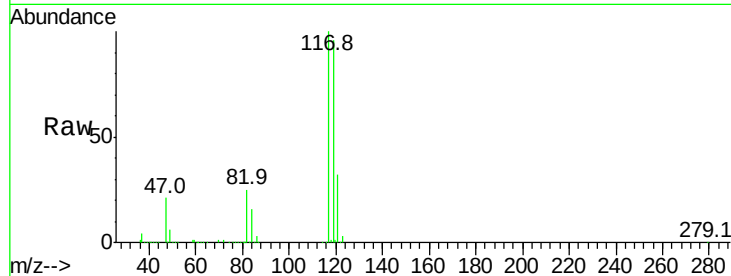


#35
Carbon Tetrachloride
Concen: 10.80 ppbv
RT: 7.00
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0323ABS01
Acq: 23 Mar 2022 15:44

Tgt Ion: 1
Ion Ratio
117 100
119 95.
121 31.

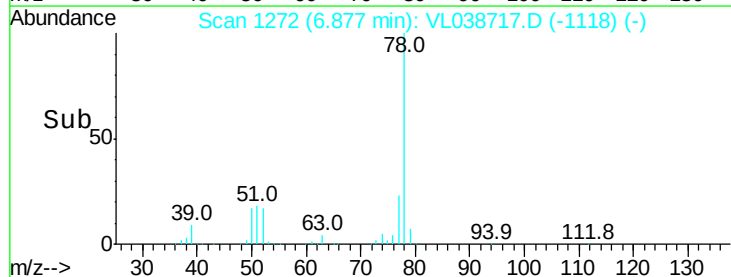
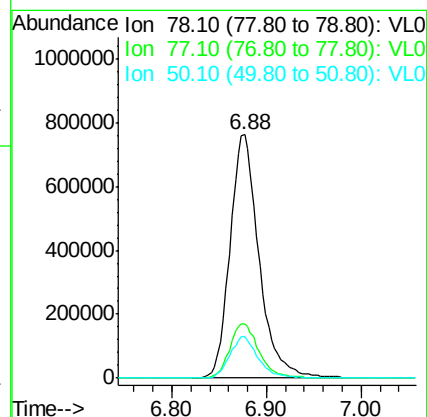
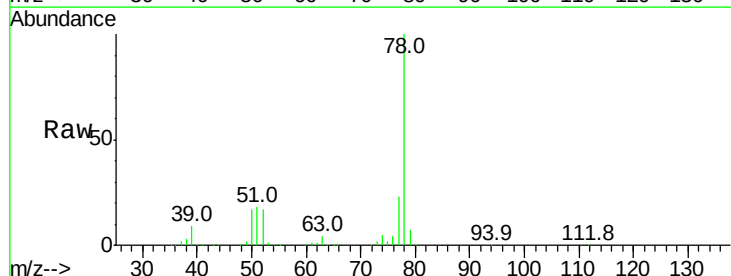
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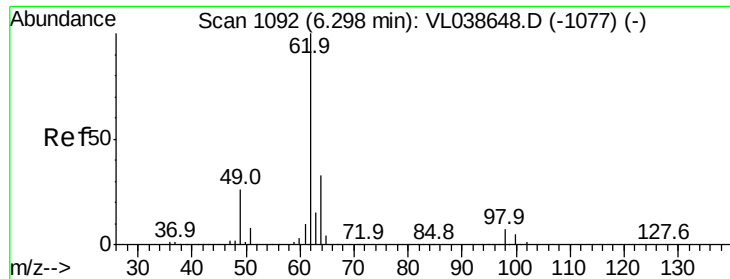
Reviewed By : Semsettin Yesilyurt 03/24/2022
Supervised By : Mahesh Dadoda 03/28/2022



#36
Benzene
Concen: 10.12 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 78 Resp: 1623895
Ion Ratio Lower Upper
78 100
77 22.5 18.1 27.1
50 16.9 13.6 20.4



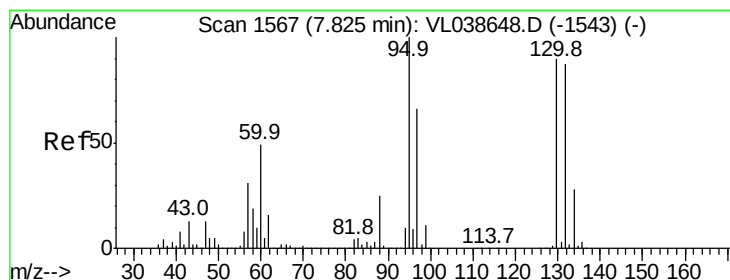
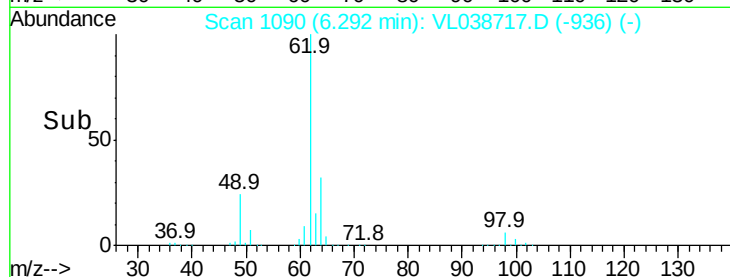
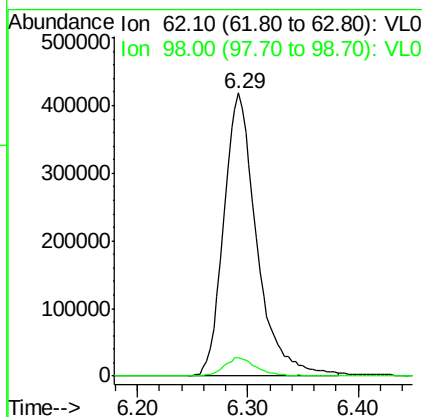
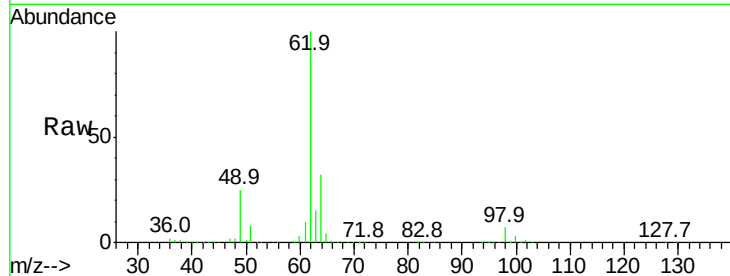


#37
 1,2-Dichloroethane
 Concen: 10.62 ppbv
 RT: 6.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion:
 Ion Ratio
 62 100
 98 6.

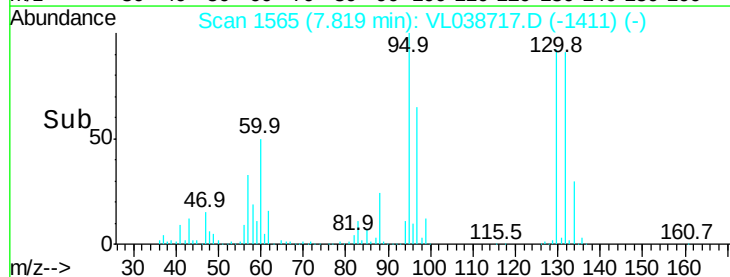
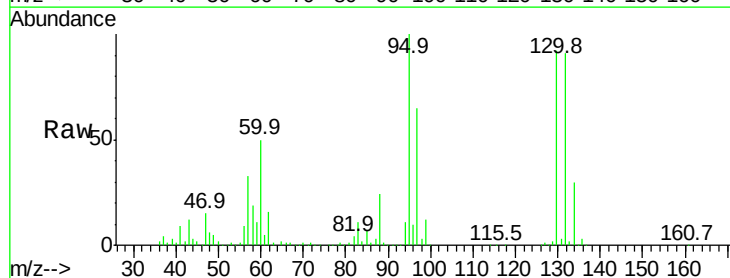
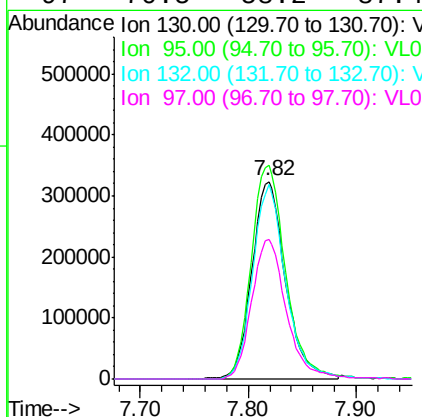
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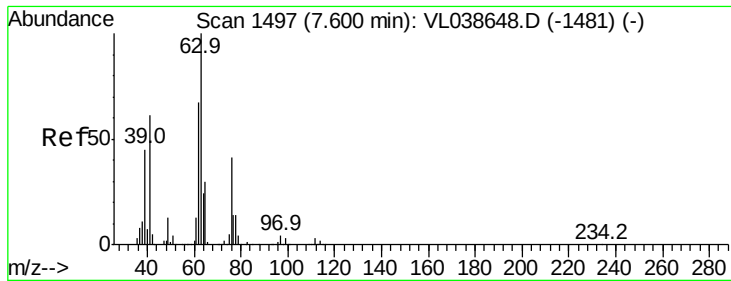
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#38
 Trichloroethene
 Concen: 10.43 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion:130 Resp: 700801
 Ion Ratio Lower Upper
 130 100
 95 108.2 88.9 133.3
 132 98.7 77.4 116.0
 97 70.5 58.2 87.4



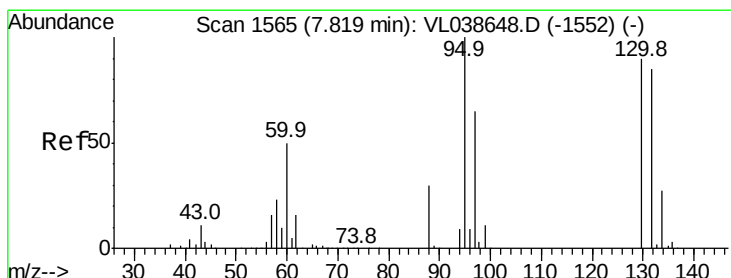
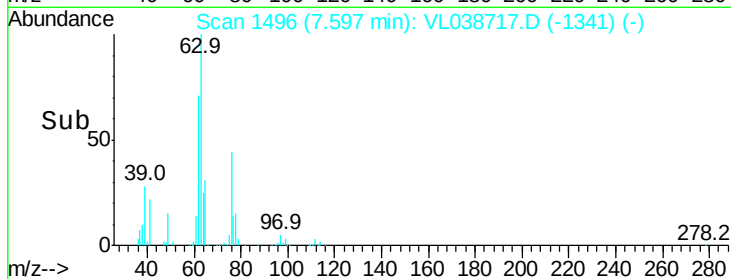
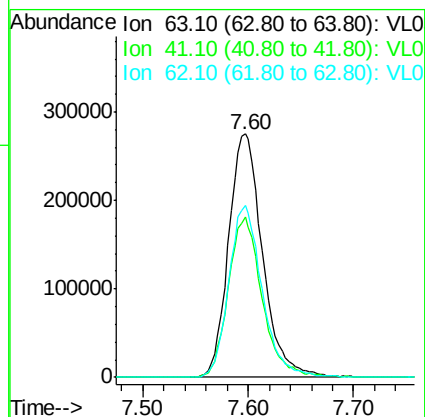
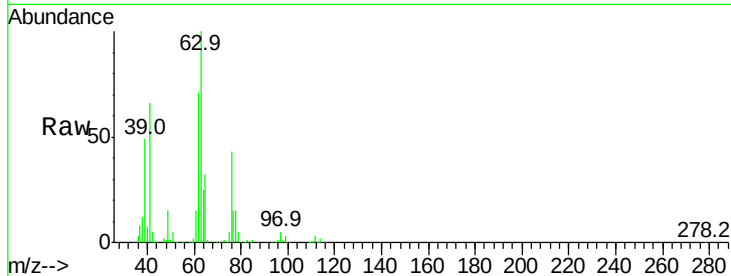


#39
 1,2-Dichloropropane
 Concen: 9.79 ppbv
 RT: 7.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion:
 Ion Ratio
 63 100
 41 65.
 62 70.

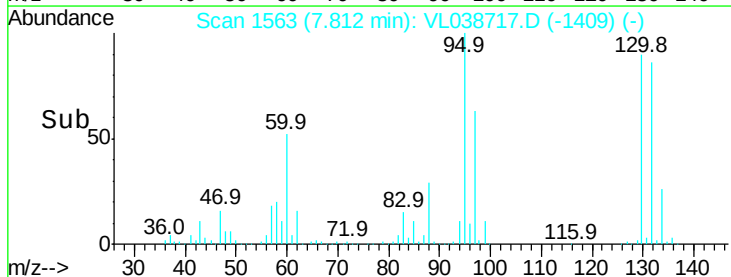
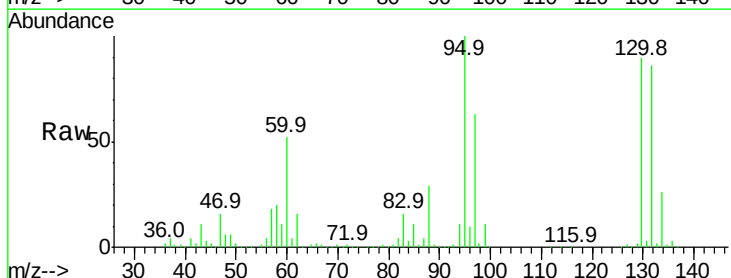
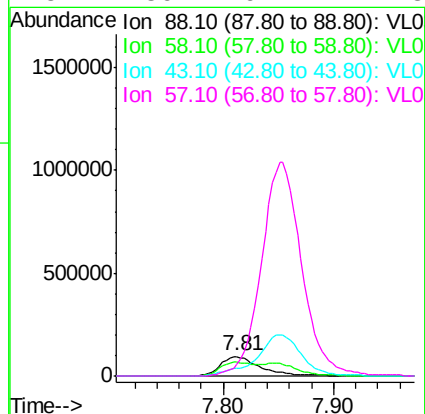
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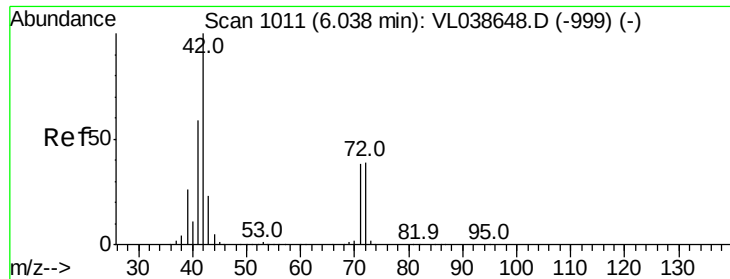
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#40
 1,4-Dioxane
 Concen: 10.65 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 88 Resp: 231928
 Ion Ratio Lower Upper
 88 100
 58 124.8 105.6 158.4
 43 242.0 201.9 302.9
 57 1139.4 942.1 1413.1



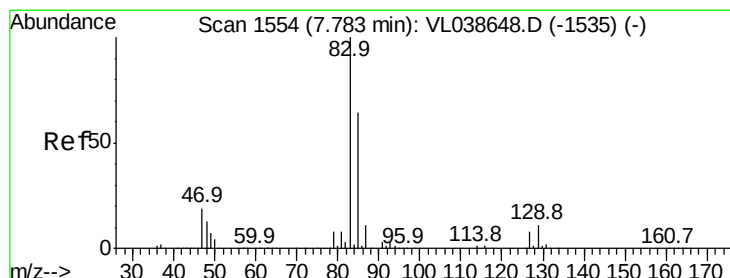
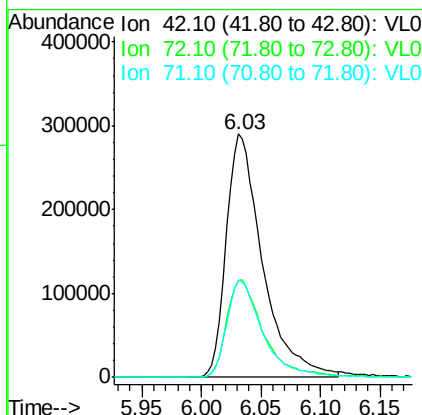
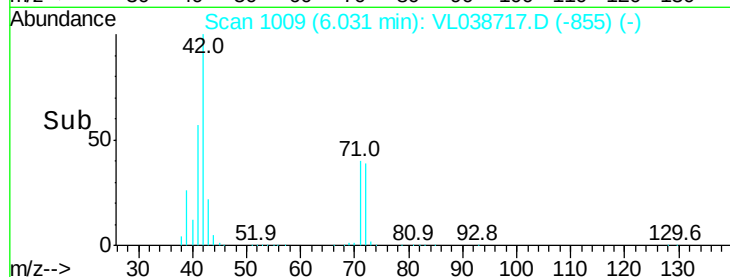
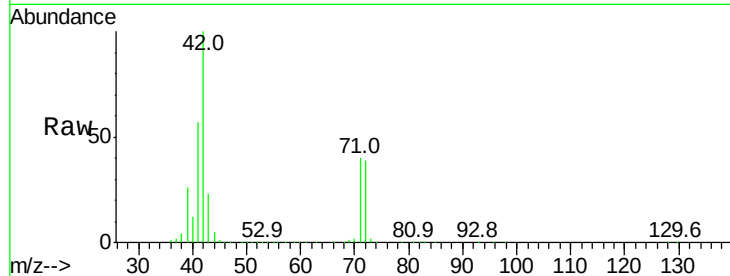


#41
Tetrahydrofuran
Concen: 10.03 ppbv
RT: 6.03
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Mar 2022 15:44

Tgt Ion:
Ion Ratio
42 100
72 41.
71 40.

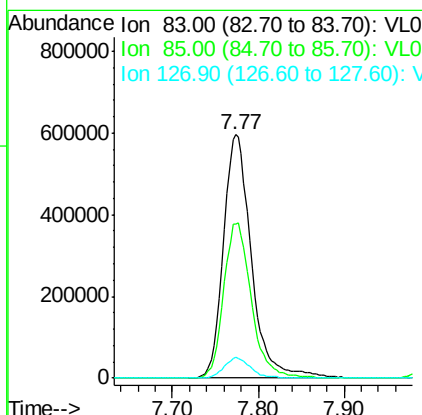
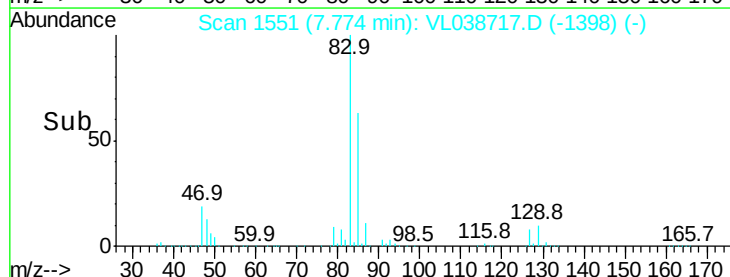
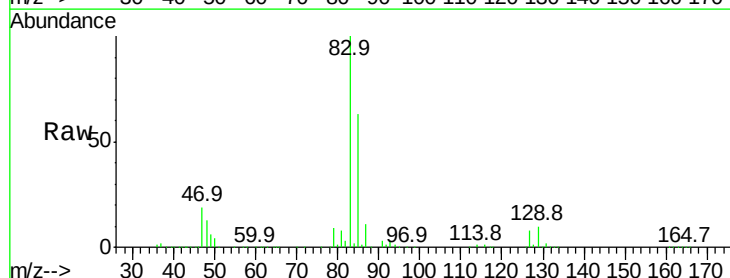
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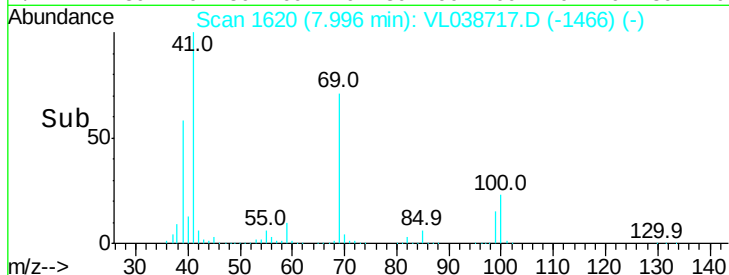
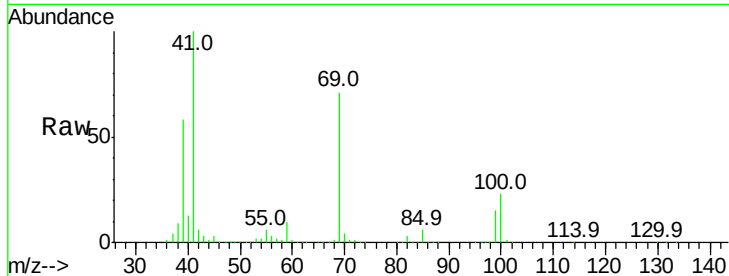
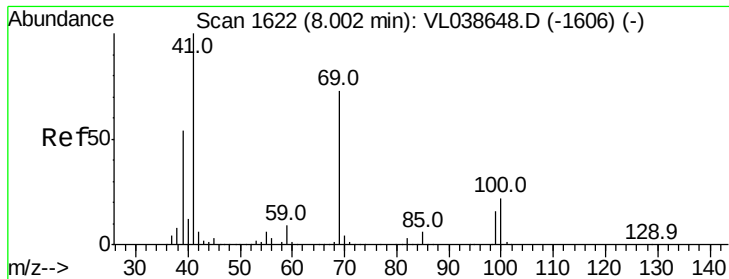
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#42
Bromodichloromethane
Concen: 11.02 ppbv
RT: 7.77 min Scan# 1551
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 83 Resp: 1347783
Ion Ratio Lower Upper
83 100
85 63.4 51.1 76.7
127 8.4 6.5 9.7



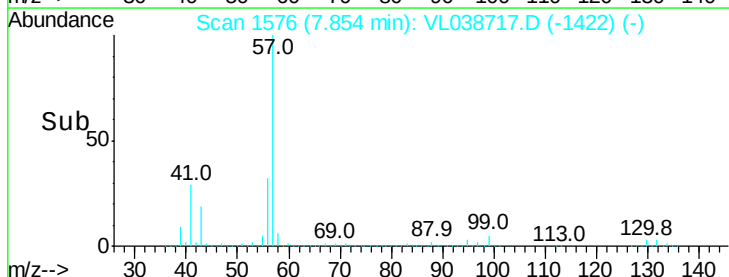
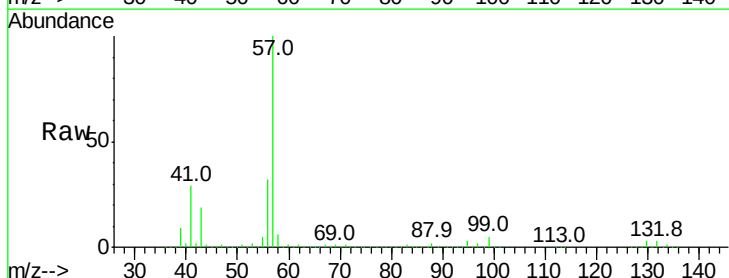
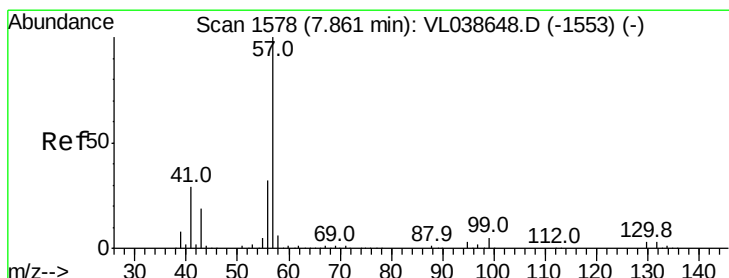
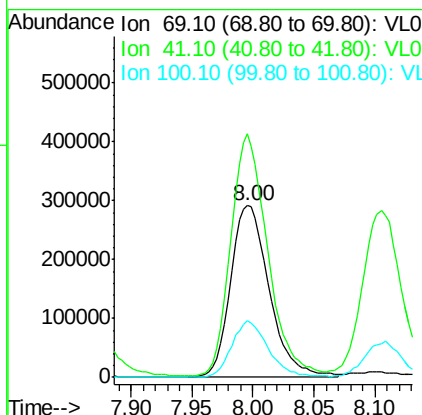


#43
Methyl Methacrylate
Concen: 10.79 ppbv
RT: 8.00
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : VL0323ABS01
Acq: 23 Mar 2022 15:44

Tgt Ion:
Ion Ratio
69 100
41 136.
100 31.

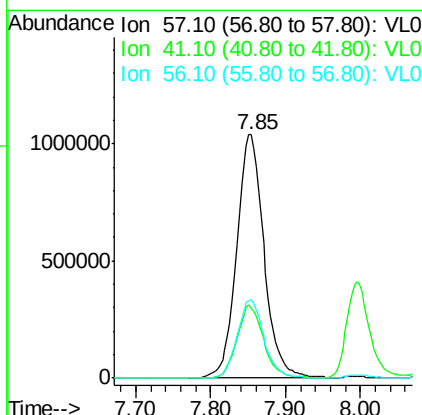
Manual Integrations
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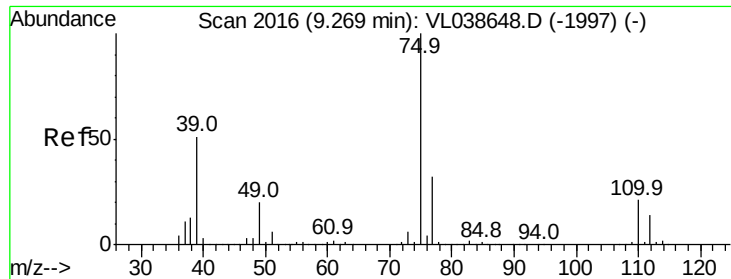
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#44
2,2,4-Trimethylpentane
Concen: 9.81 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 57 Resp: 2643106
Ion Ratio Lower Upper
57 100
41 29.0 23.0 34.4
56 31.4 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 12.27 ppbv

RT: 9.26 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 15:44 VL0323ABS01

Tgt Ion:

Ion Ratio

75 100

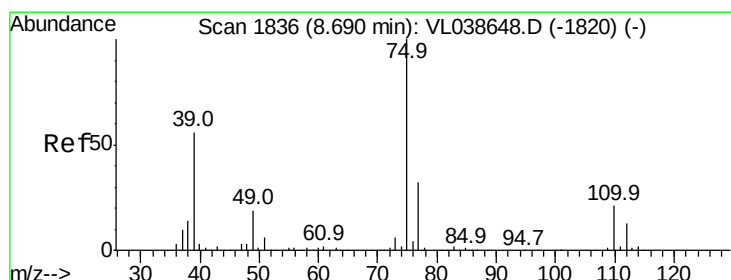
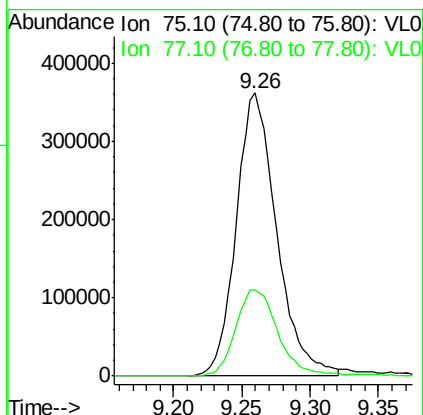
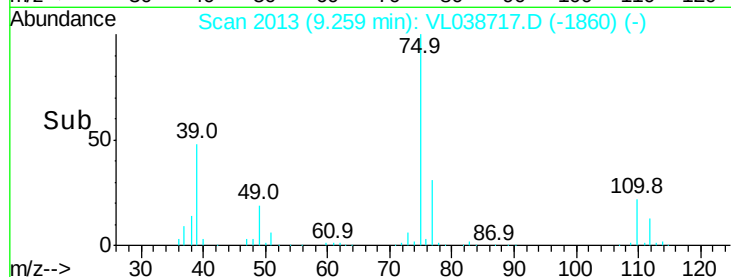
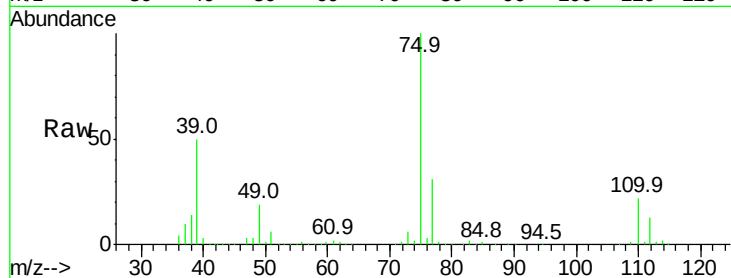
77 30.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#46

cis-1,3-Dichloropropene

Concen: 11.55 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL038717.D

Acq: 23 Mar 2022 15:44

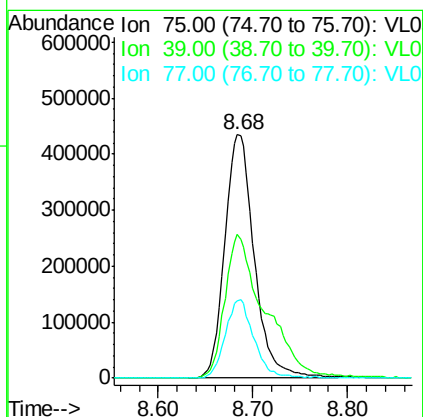
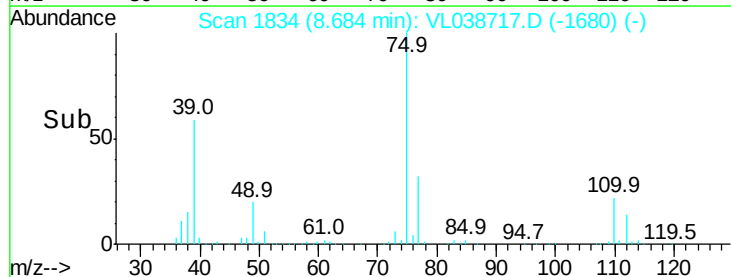
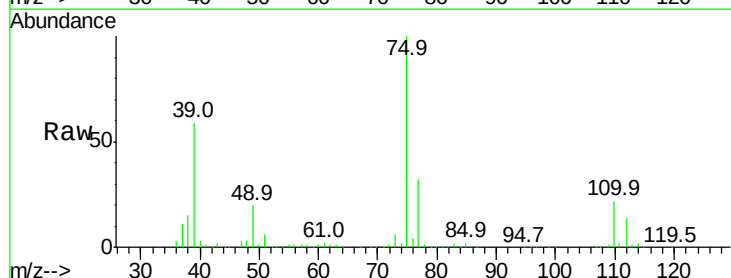
Tgt Ion: 75 Resp: 945398

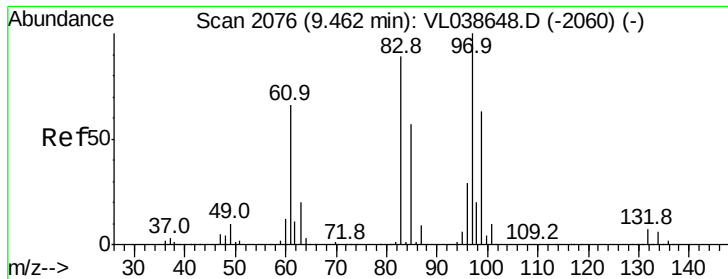
Ion Ratio Lower Upper

75 100

39 59.2 44.8 67.2

77 31.6 25.4 38.0



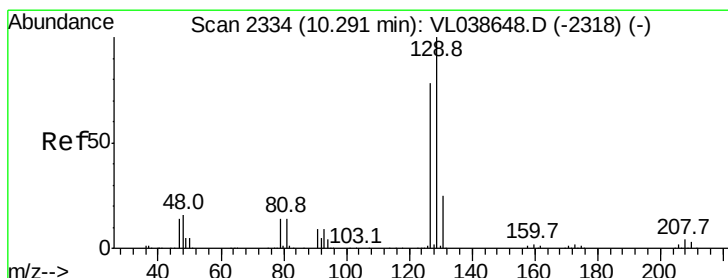
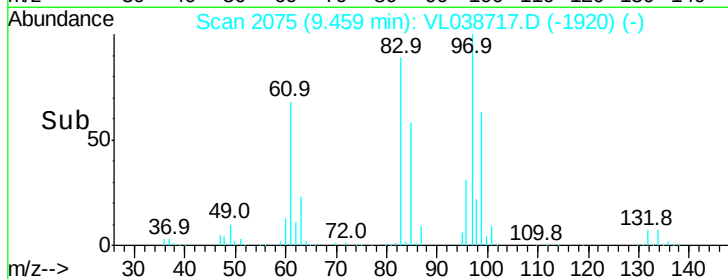
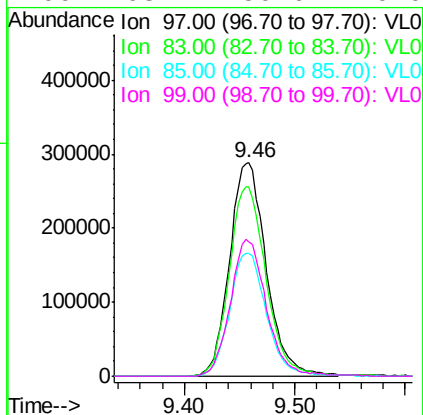
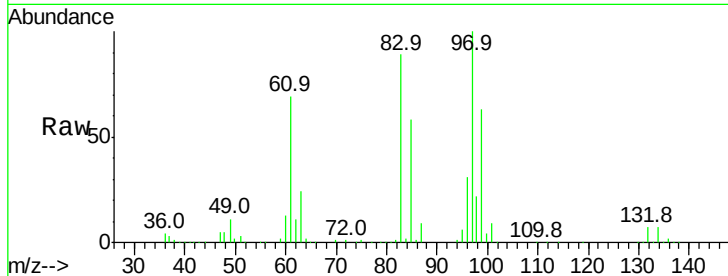


#47
 1,1,2-Trichloroethane
 Concen: 9.92 ppbv
 RT: 9.46 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId : VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion:
 Ion Ratio
 97 100
 83 88.
 85 57.
 99 63.1 50.6 76.0

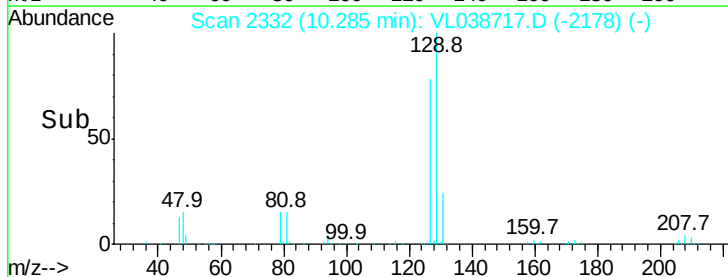
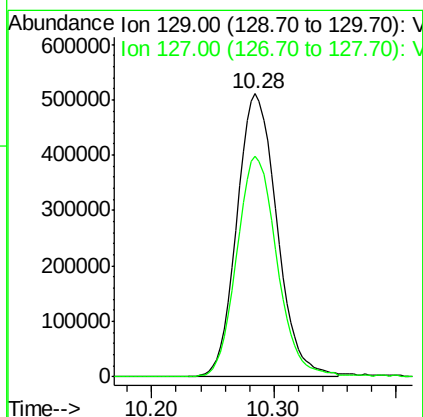
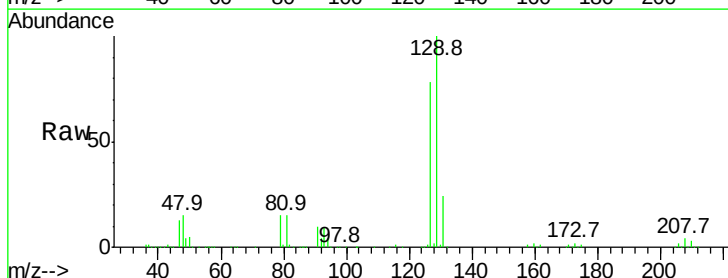
Manual Integrations
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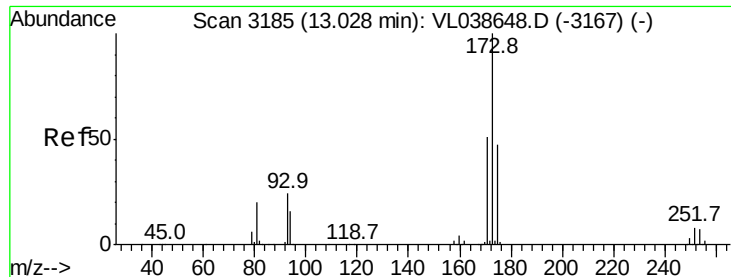
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#48
 Dibromochloromethane
 Concen: 11.07 ppbv
 RT: 10.28 min Scan# 2332
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion:129 Resp: 1161119
 Ion Ratio Lower Upper
 129 100
 127 78.4 39.5 118.5





#49

Bromoform

Concen: 11.01 ppbv

RT: 13.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 15:44

Tgt Ion:1

Ion Ratio

173 100

175 50.

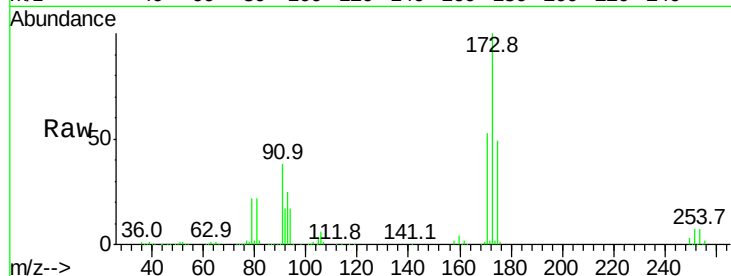
171 53.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

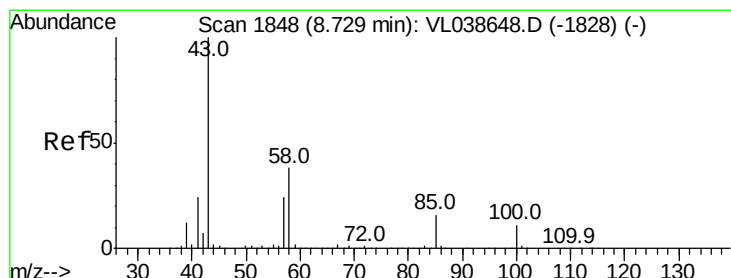
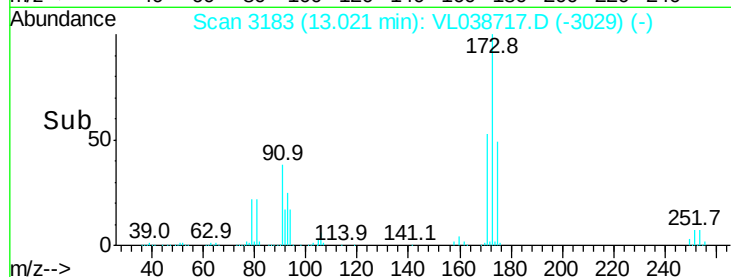
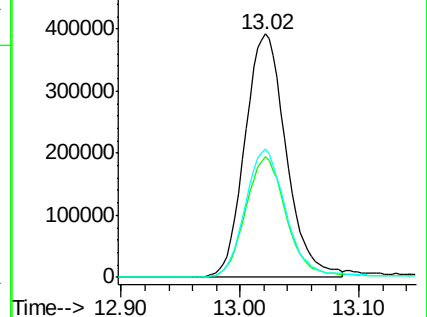
Supervised By :Mahesh Dadoda 03/28/2022



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.31 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.01 min

Lab File: VL038717.D

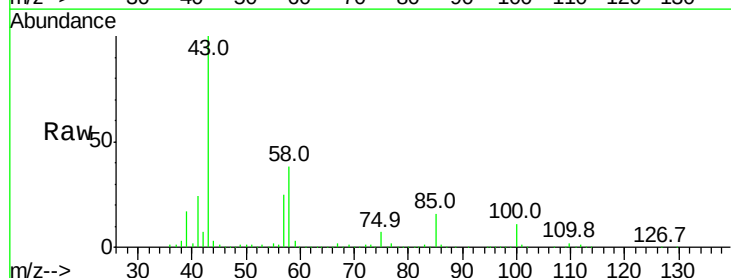
Acq: 23 Mar 2022 15:44

Tgt Ion: 43 Resp: 1576349

Ion Ratio Lower Upper

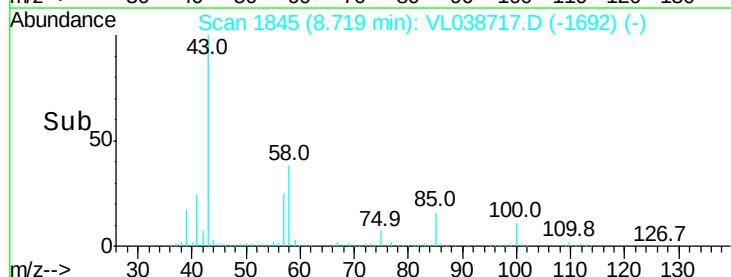
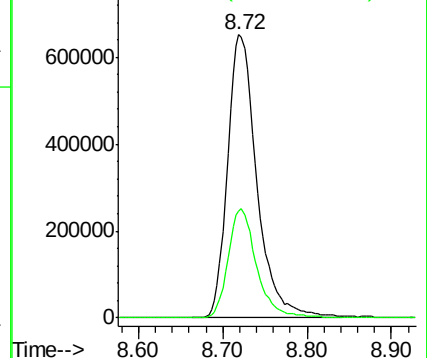
43 100

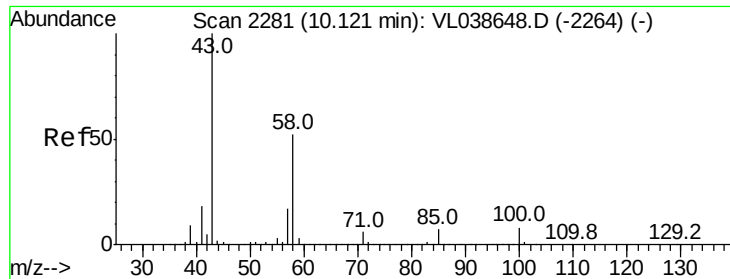
58 37.7 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



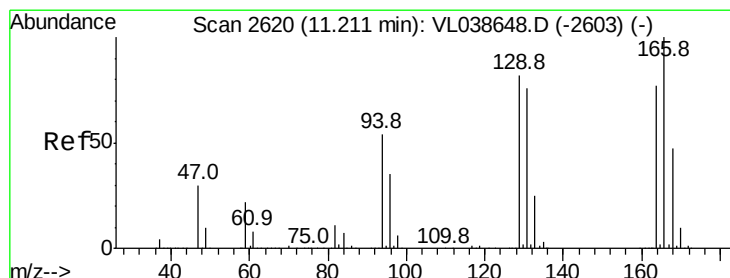
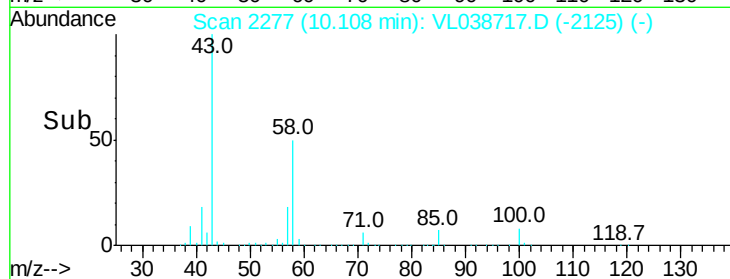
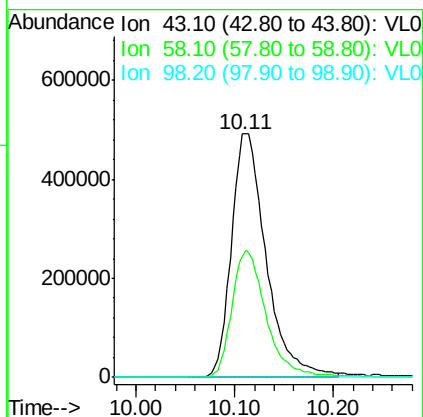
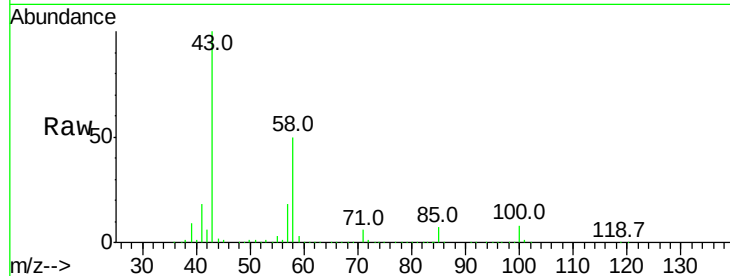


#51
2-Hexanone
Concen: 10.98 ppbv
RT: 10.11 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 15:44

Tgt Ion:
Ion Ratio
43 100
58 51.
98 0.

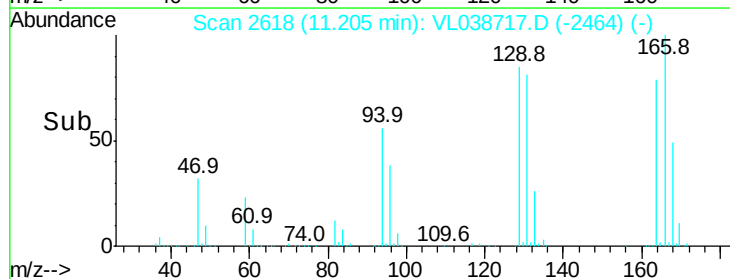
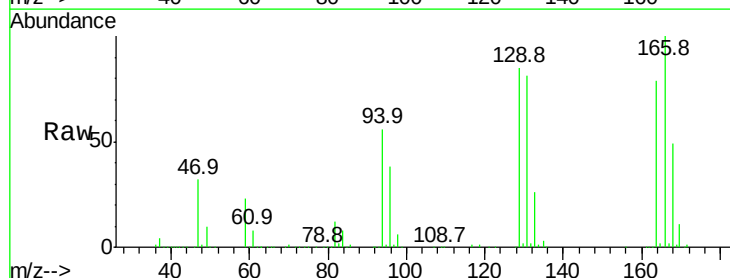
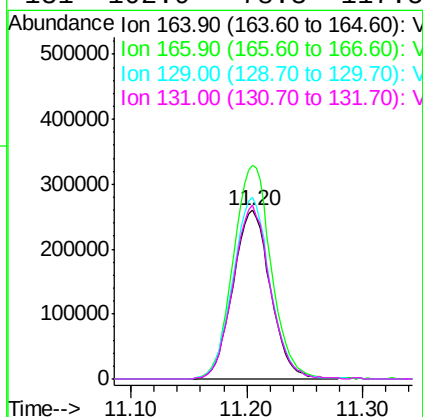
Manual Integrations
APPROVED

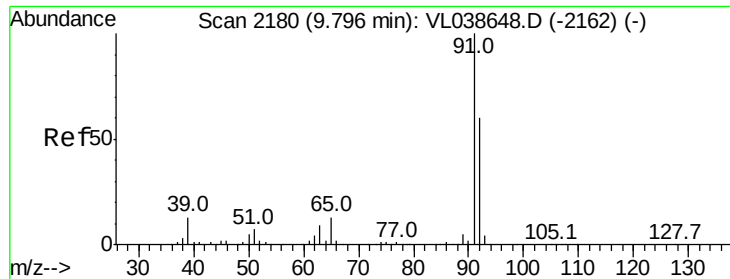
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#52
Tetrachloroethene
Concen: 9.92 ppbv
RT: 11.20 min Scan# 2618
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion:164 Resp: 582226
Ion Ratio Lower Upper
164 100
166 126.6 103.3 154.9
129 107.7 85.2 127.8
131 102.9 78.3 117.5





#53

Toluene

Concen: 10.71 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44 VL0323ABS01

Tgt Ion:

Ion Ratio

91 100

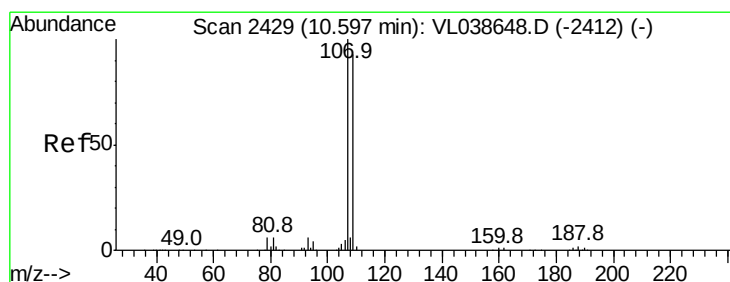
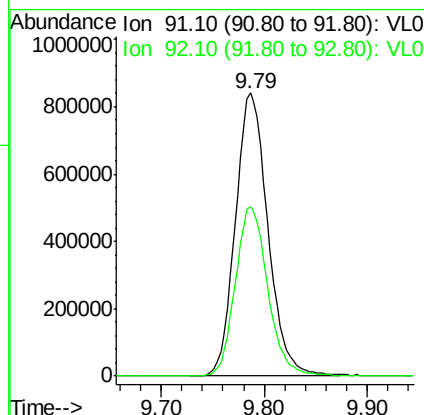
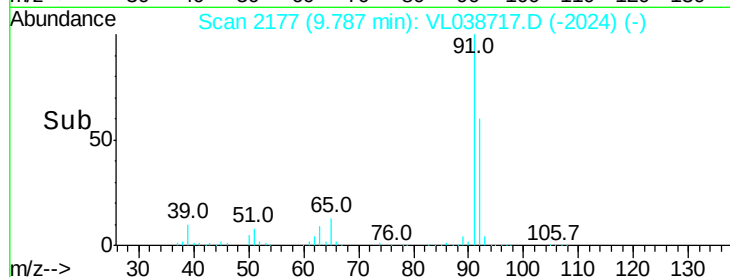
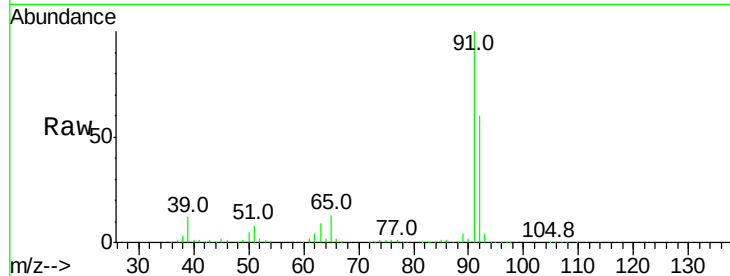
92 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#54

1,2-Dibromoethane

Concen: 10.73 ppbv

RT: 10.59 min Scan# 2427

Delta R.T. -0.01 min

Lab File: VL038717.D

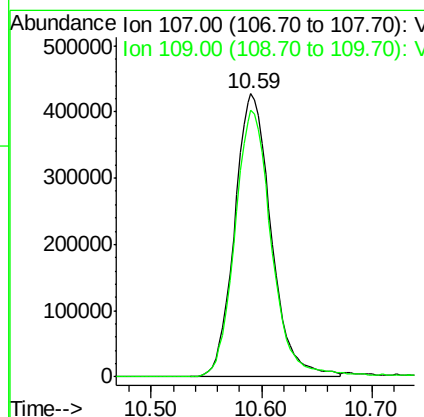
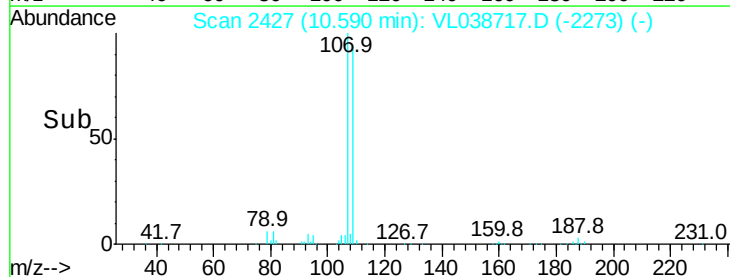
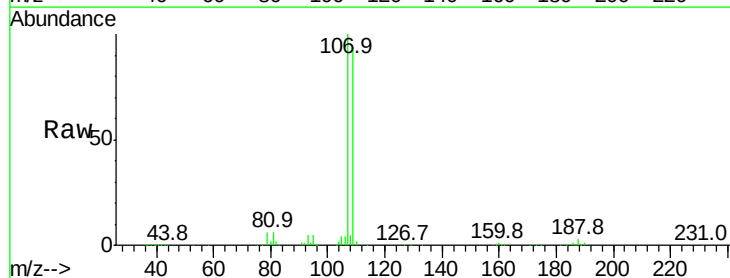
Acq: 23 Mar 2022 15:44

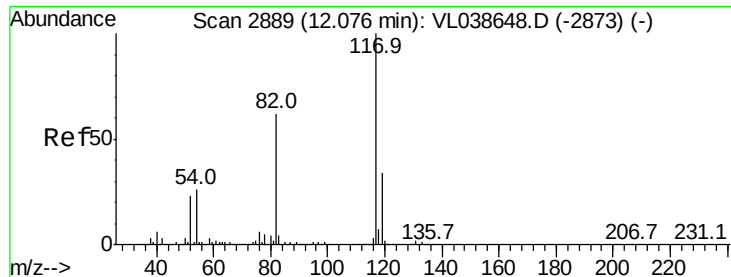
Tgt Ion:107 Resp: 980788

Ion Ratio Lower Upper

107 100

109 94.2 74.1 111.1



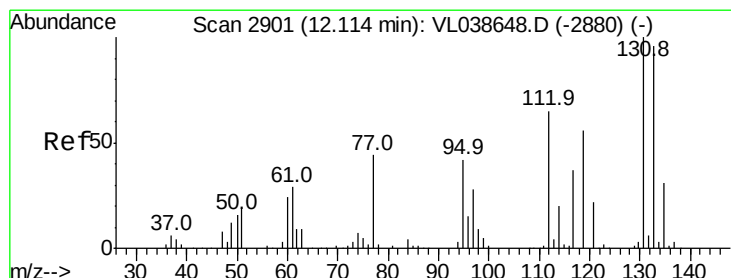
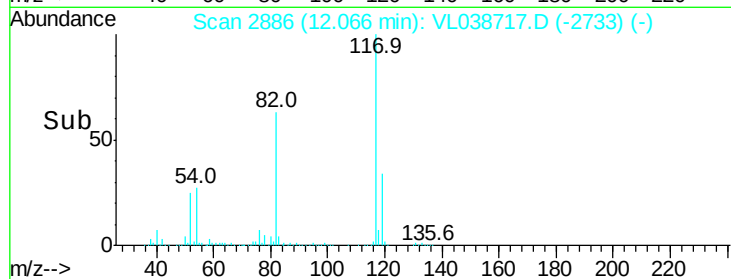
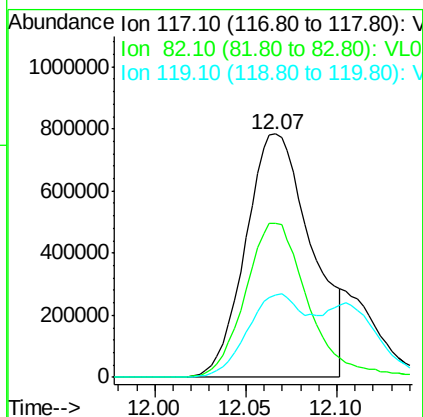
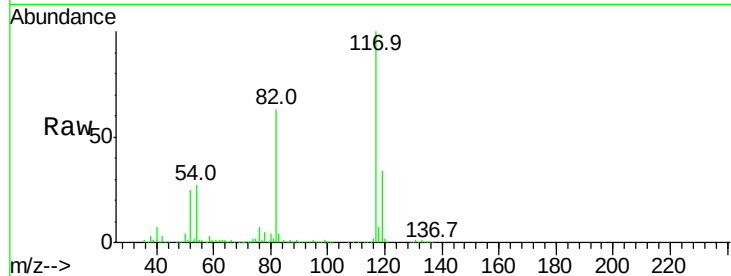


#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.07
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampled :
Acq: 23 Mar 2022 15:44

Tgt Ion:1
Ion Rati
117 100
82 61.
119 29.

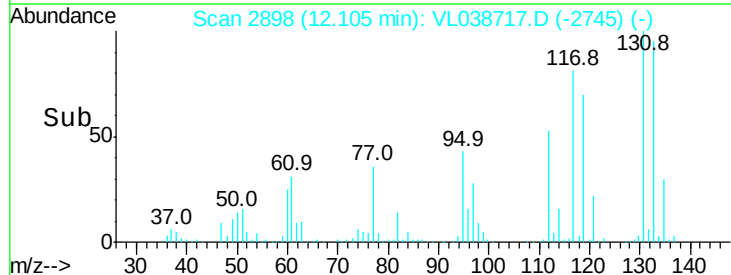
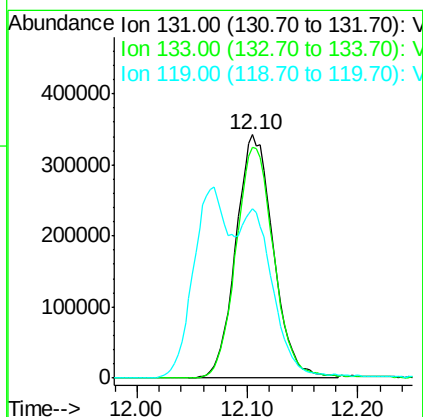
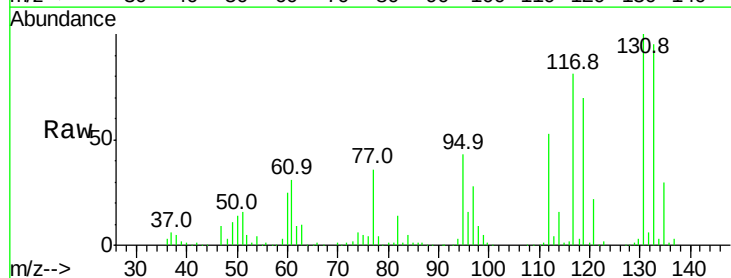
Manual Integrations
APPROVED

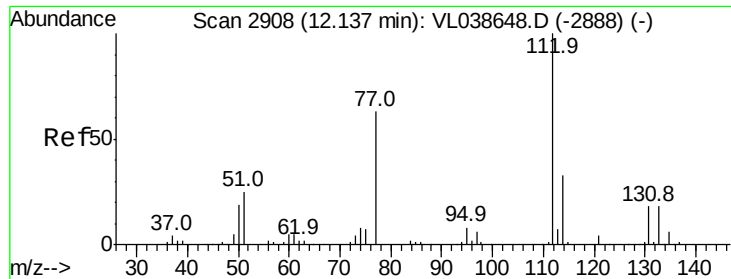
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#56
1,1,1,2-Tetrachloroethane
Concen: 9.82 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion:131 Resp: 804611
Ion Ratio Lower Upper
131 100
133 97.2 77.3 115.9
119 62.5 53.0 79.6



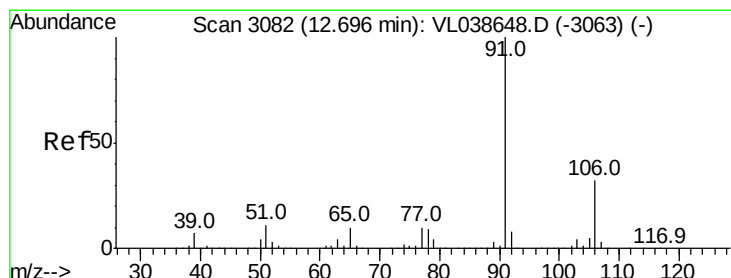
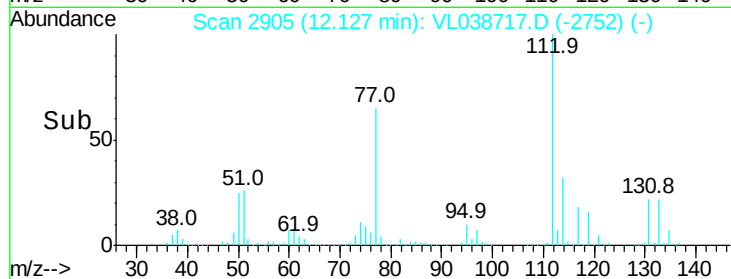
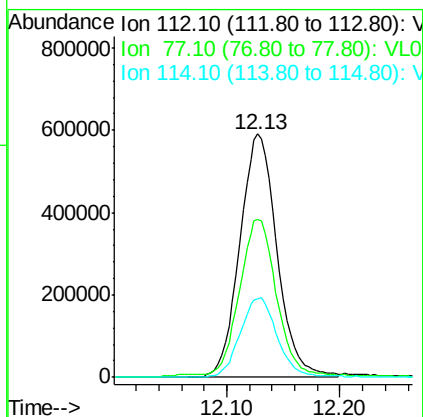
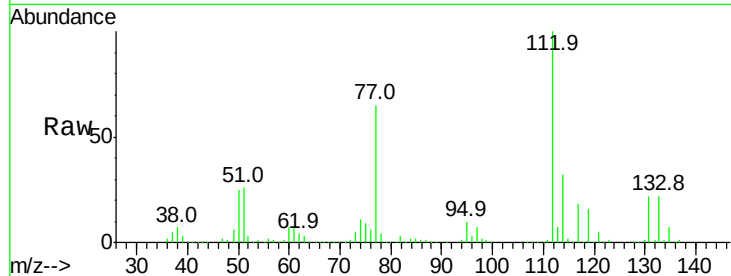


#57
Chlorobenzene
Concen: 9.49 ppbv
RT: 12.13
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : VL0323ABS01
Acq: 23 Mar 2022 15:44

Tgt Ion: 112
Ion Ratio: 100
77 63.1
114 32.1

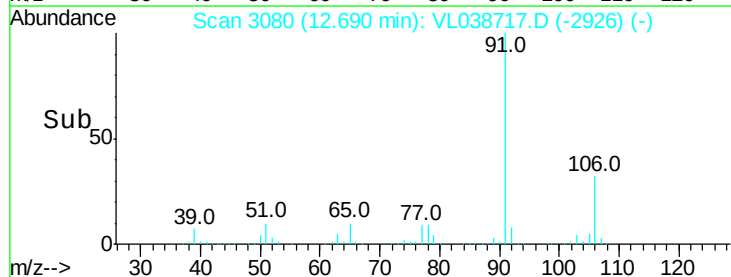
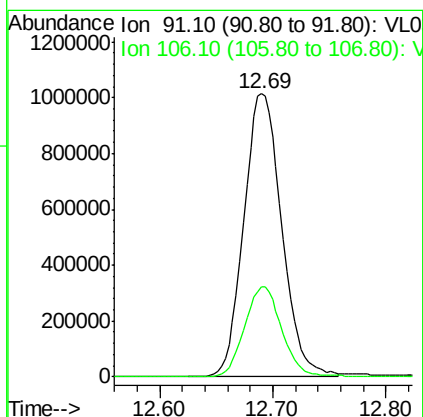
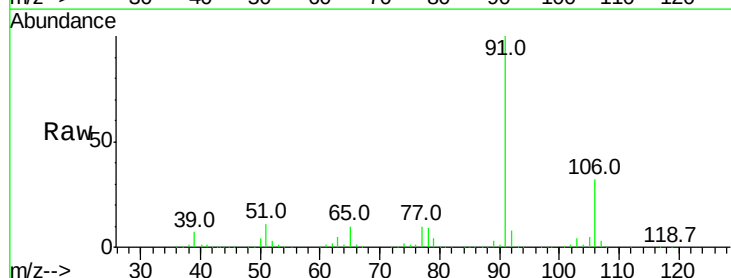
Manual Integrations
APPROVED

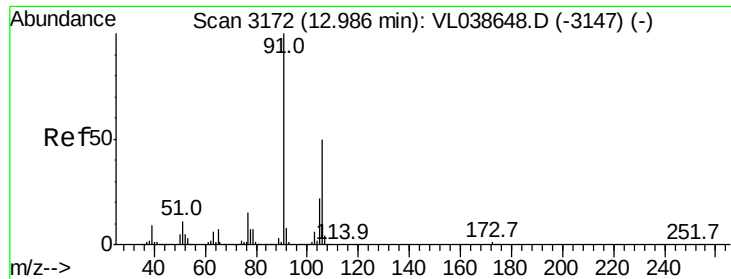
Reviewed By : Semsettin Yesilyurt 03/24/2022
Supervised By : Mahesh Dadoda 03/28/2022



#58
Ethyl Benzene
Concen: 10.24 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 91 Resp: 2365569
Ion Ratio Lower Upper
91 100
106 31.8 25.4 38.0



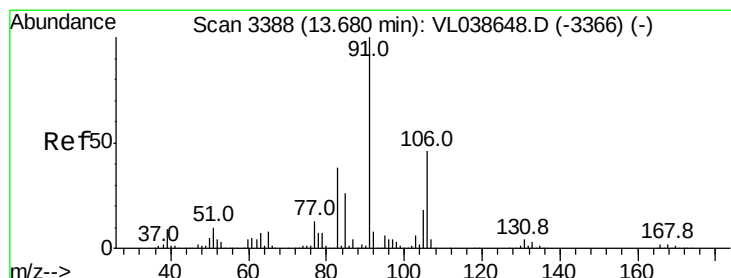
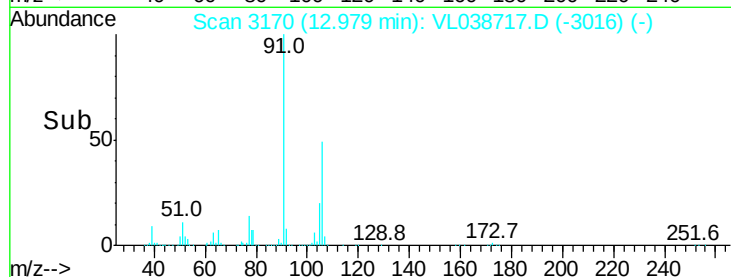
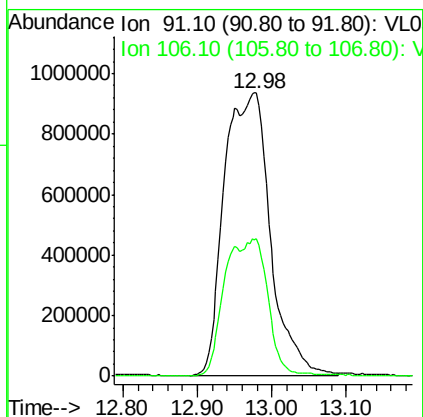
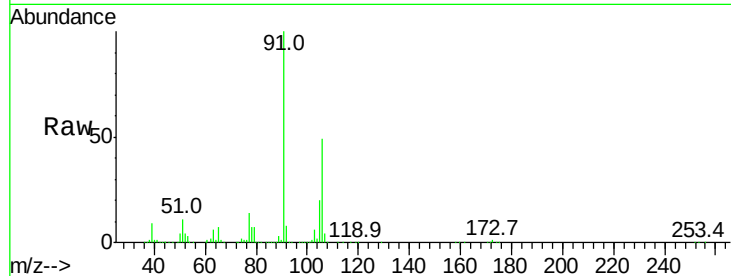


#59
m/p-Xylene
Concen: 19.96 ppbv m
RT: 12.98
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 15:44

Tgt Ion:
Ion Ratio
91 100
106 45.

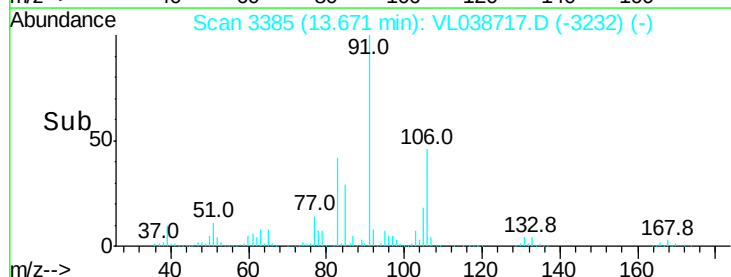
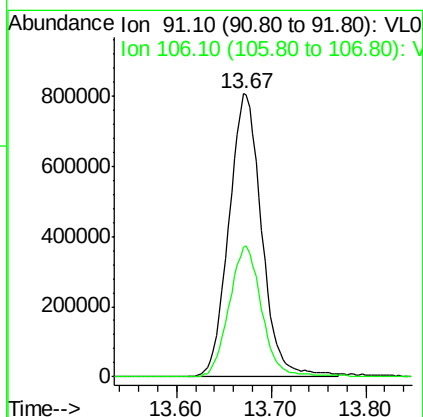
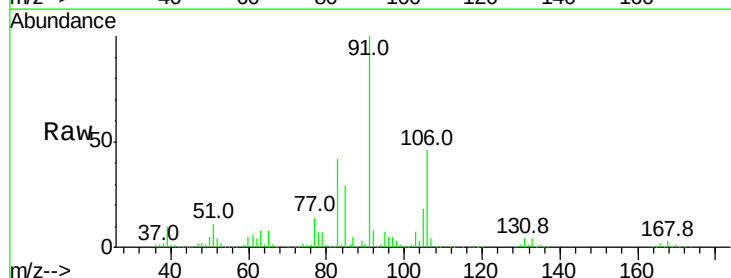
Manual Integrations
APPROVED

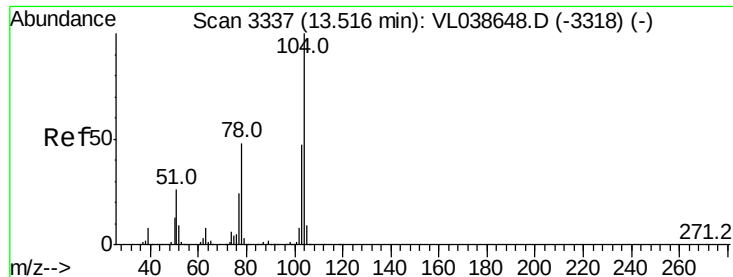
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#60
o-Xylene
Concen: 10.08 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL038717.D
Acq: 23 Mar 2022 15:44

Tgt Ion: 91 Resp: 1933384
Ion Ratio Lower Upper
91 100
106 46.7 23.5 70.5





#61

Styrene

Concen: 11.23 ppbv

RT: 13.51

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 15:44

Tgt Ion:1

Ion Ratio

104 100

78 49.

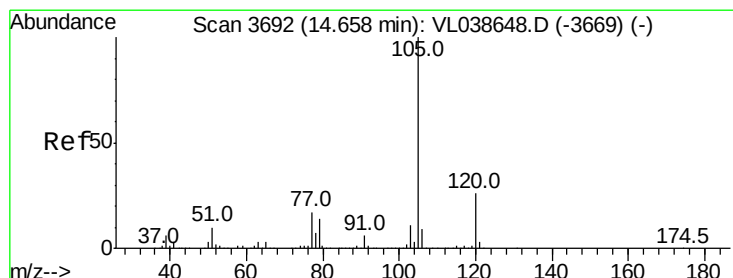
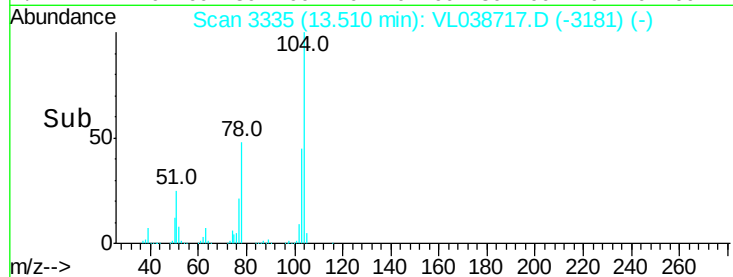
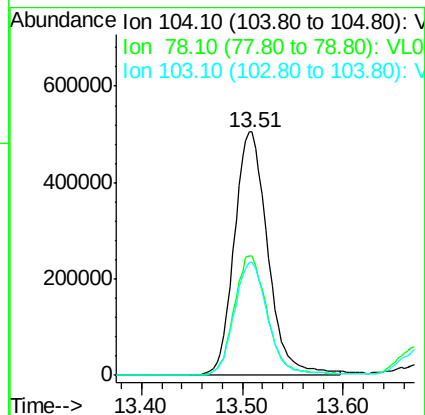
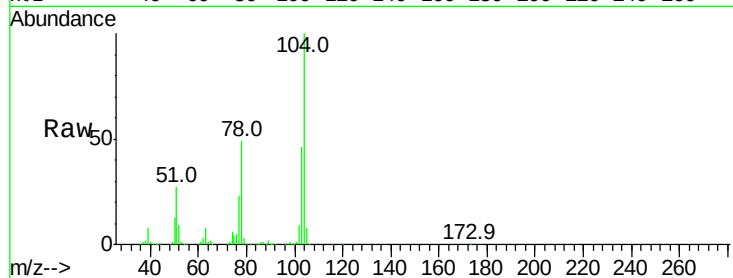
103 47.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#62

Isopropylbenzene

Concen: 9.75 ppbv

RT: 14.65 min Scan# 3689

Delta R.T. -0.01 min

Lab File: VL038717.D

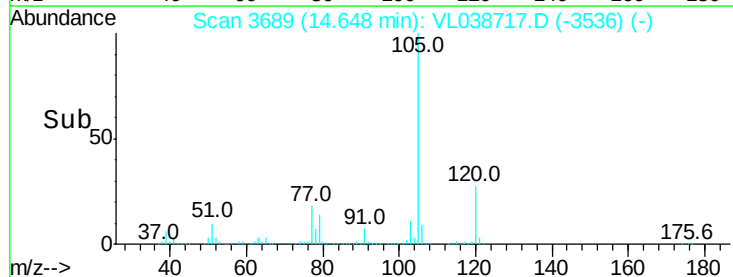
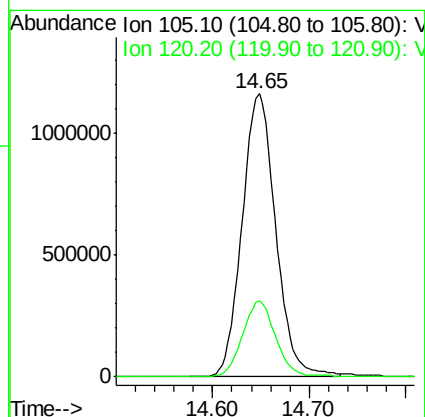
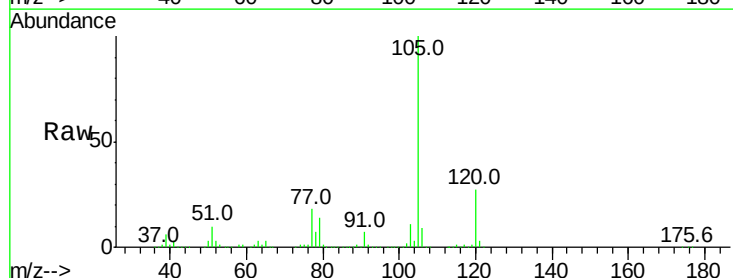
Acq: 23 Mar 2022 15:44

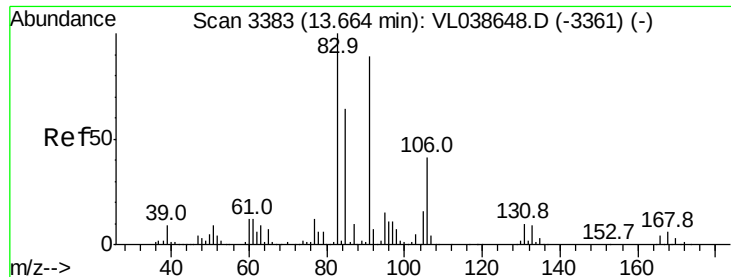
Tgt Ion:105 Resp: 2811222

Ion Ratio Lower Upper

105 100

120 26.8 21.2 31.8



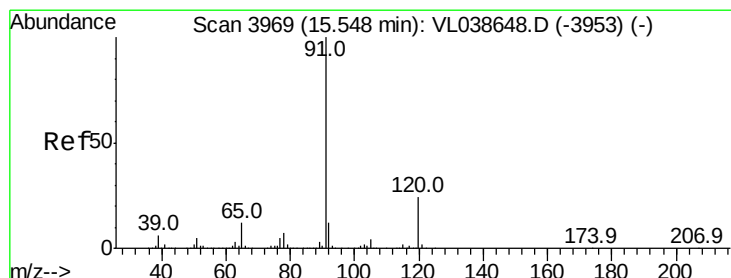
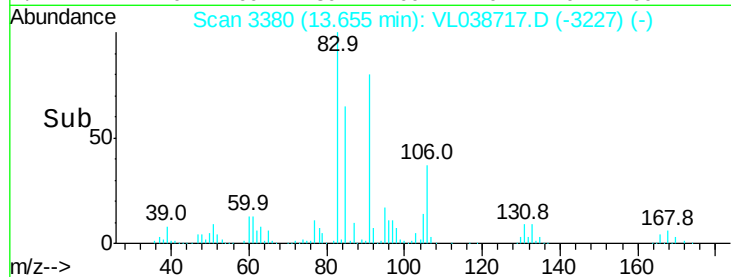
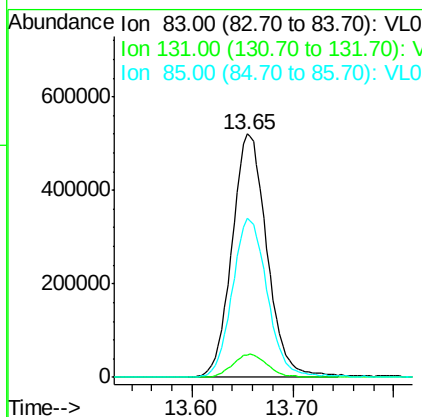
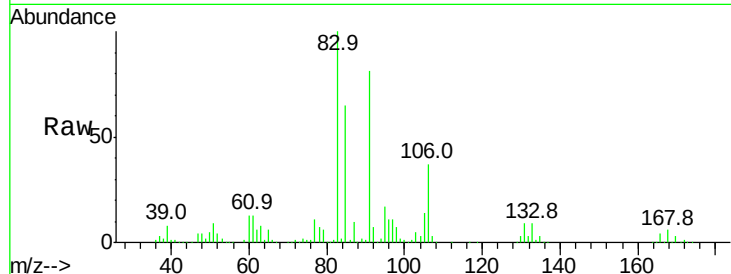


#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.42 ppbv
 RT: 13.65
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion:
 Ion Ratio
 83 100
 131 9.
 85 66.

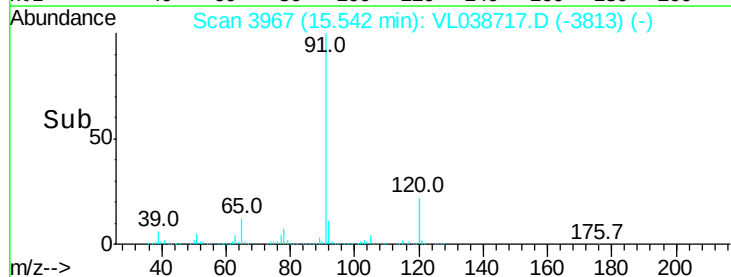
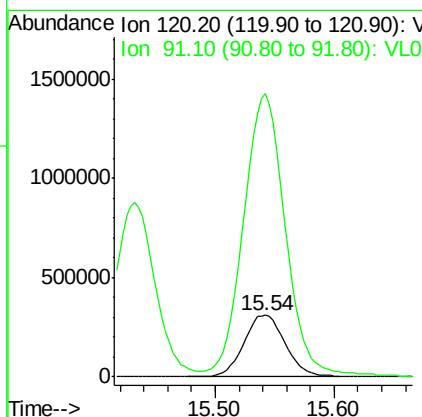
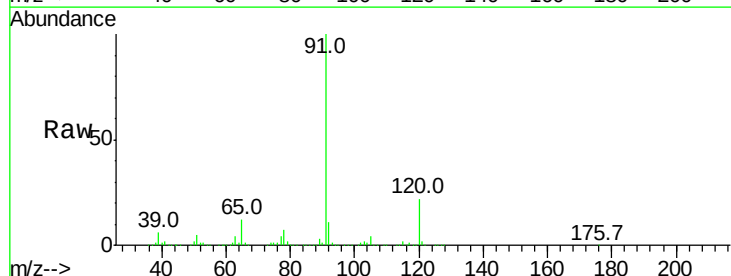
Manual Integrations
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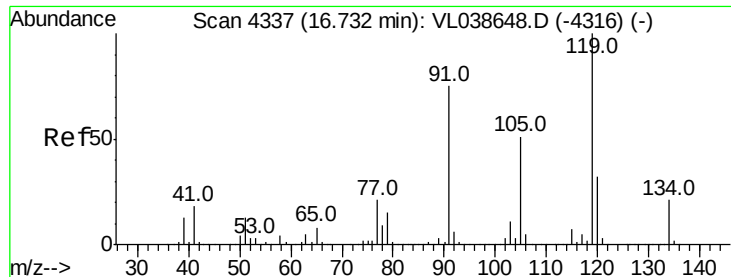
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/28/2022



#64
 n-propylbenzene
 Concen: 9.90 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion:120 Resp: 748916
 Ion Ratio Lower Upper
 120 100
 91 465.2 368.0 552.0



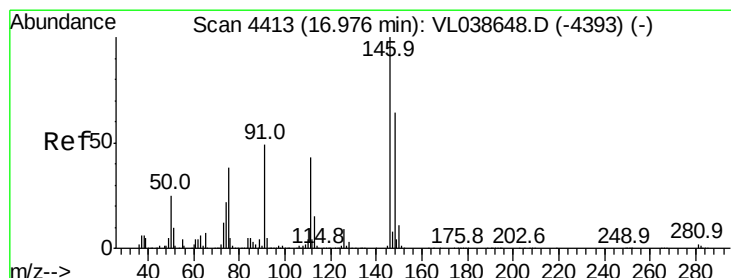
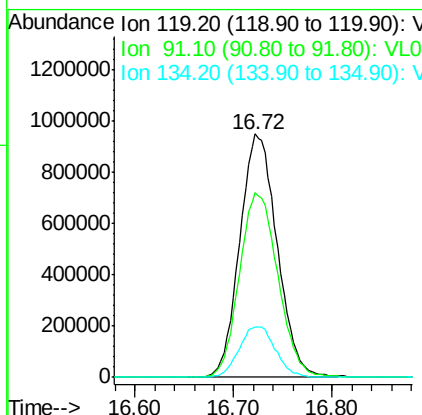
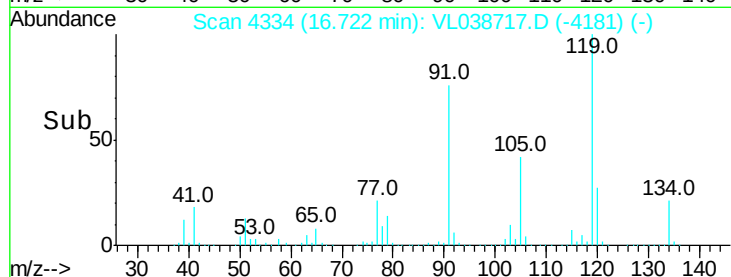
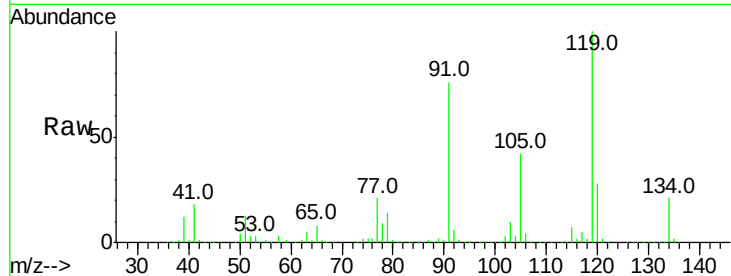


#65
 tert-Butylbenzene
 Concen: 9.61 ppbv
 RT: 16.72 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId : VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion: 119
 Ion Ratio: 100
 91 78.1
 134 20.0

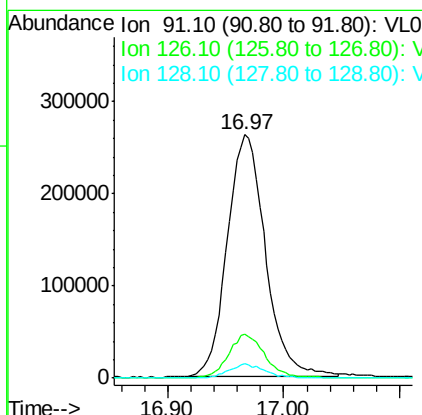
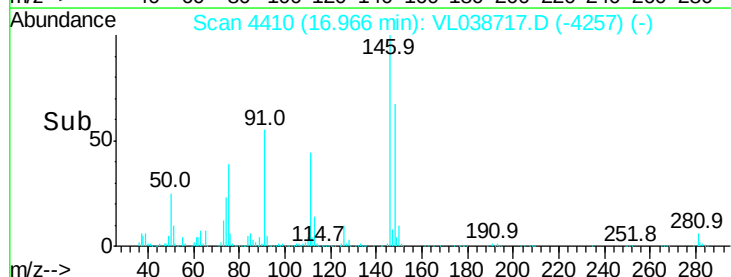
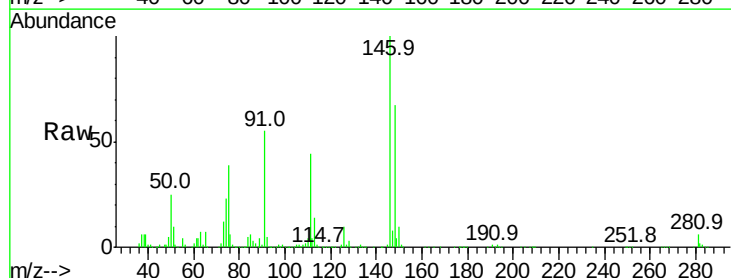
Manual Integrations
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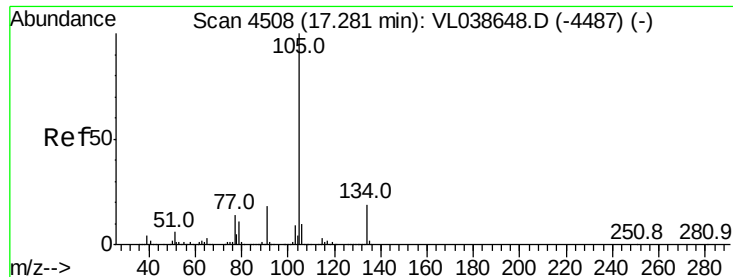
Reviewed By : Semsettin Yesilyurt 03/24/2022
 Supervised By : Mahesh Dadoda 03/28/2022



#66
 Benzyl Chloride
 Concen: 12.19 ppbv
 RT: 16.97 min Scan# 4410
 Delta R.T.: -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 91 Resp: 598258
 Ion Ratio Lower Upper
 91 100
 126 17.6 14.3 21.5
 128 5.6 4.6 6.8



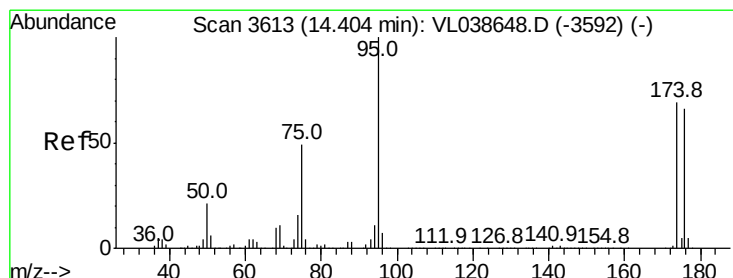
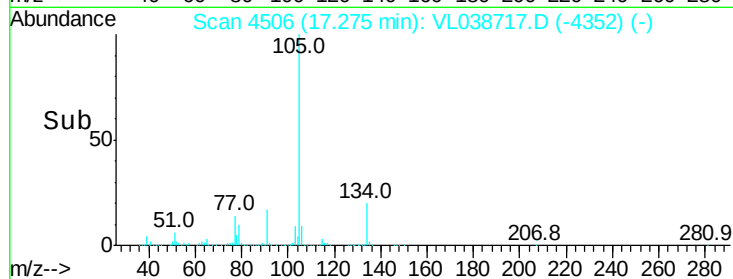
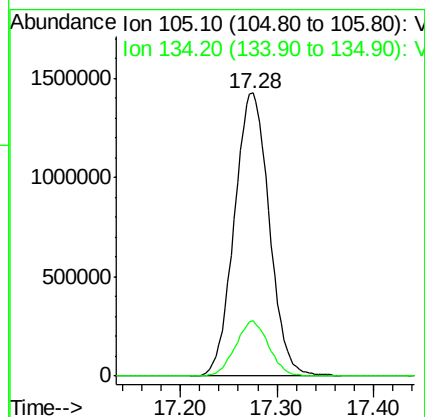
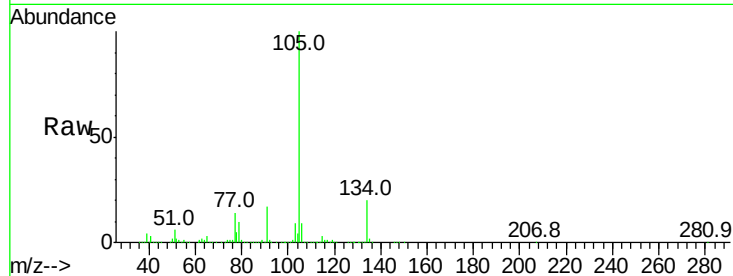


#67
 sec-Butylbenzene
 Concen: 9.65 ppbv
 RT: 17.28
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : VL0323ABS01
 Acq: 23 Mar 2022 15:44

Tgt Ion: 1
 Ion Ratio
 105 100
 134 18.

Manual Integrations
 APPROVED

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



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.41 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.01 min
 Lab File: VL038717.D
 Acq: 23 Mar 2022 15:44

Tgt Ion: 95 Resp: 1424612
 Ion Ratio Lower Upper
 95 100
 174 72.2 56.1 84.1
 175 5.3 4.2 6.2

