

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039620.D
 Acq On : 7 Sep 2022 15:34
 Operator : SY/AP
 Sample : N4507-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 OA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022

Quant Time: Sep 08 05:49:59 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.21	49	879280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2304212	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2114720	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1560033	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.75	85	24886	0.213	ppbv	98
3) Chlorodifluoromethane	2.70	51	58541	0.559	ppbv #	85
4) Chloromethane	2.84	50	26204	0.415	ppbv	94
9) Propene	2.72	41	25125m	0.524	ppbv	
11) Trichlorofluoromethane	3.58	101	28649	0.223	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.09	101	9274m	0.098	ppbv	
13) Ethanol	3.27	45	146756	42.600	ppbv	73
15) Acetone	3.49	43	400809	4.069	ppbv	100
20) Methylene Chloride	3.95	84	216510	5.411	ppbv	95
25) Ethyl Acetate	5.23	43	153310	0.727	ppbv #	80
26) Hexane	5.23	57	195614	2.274	ppbv #	42
29) Chloroform	5.29	83	6761m	0.050	ppbv	
34) 2-Butanone	4.81	43	24388m	0.213	ppbv	
36) Benzene	6.38	78	14751	0.084	ppbv #	89
44) 2,2,4-Trimethylpentane	7.33	57	22356m	0.076	ppbv	
53) Toluene	9.23	91	57268	0.291	ppbv	97

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

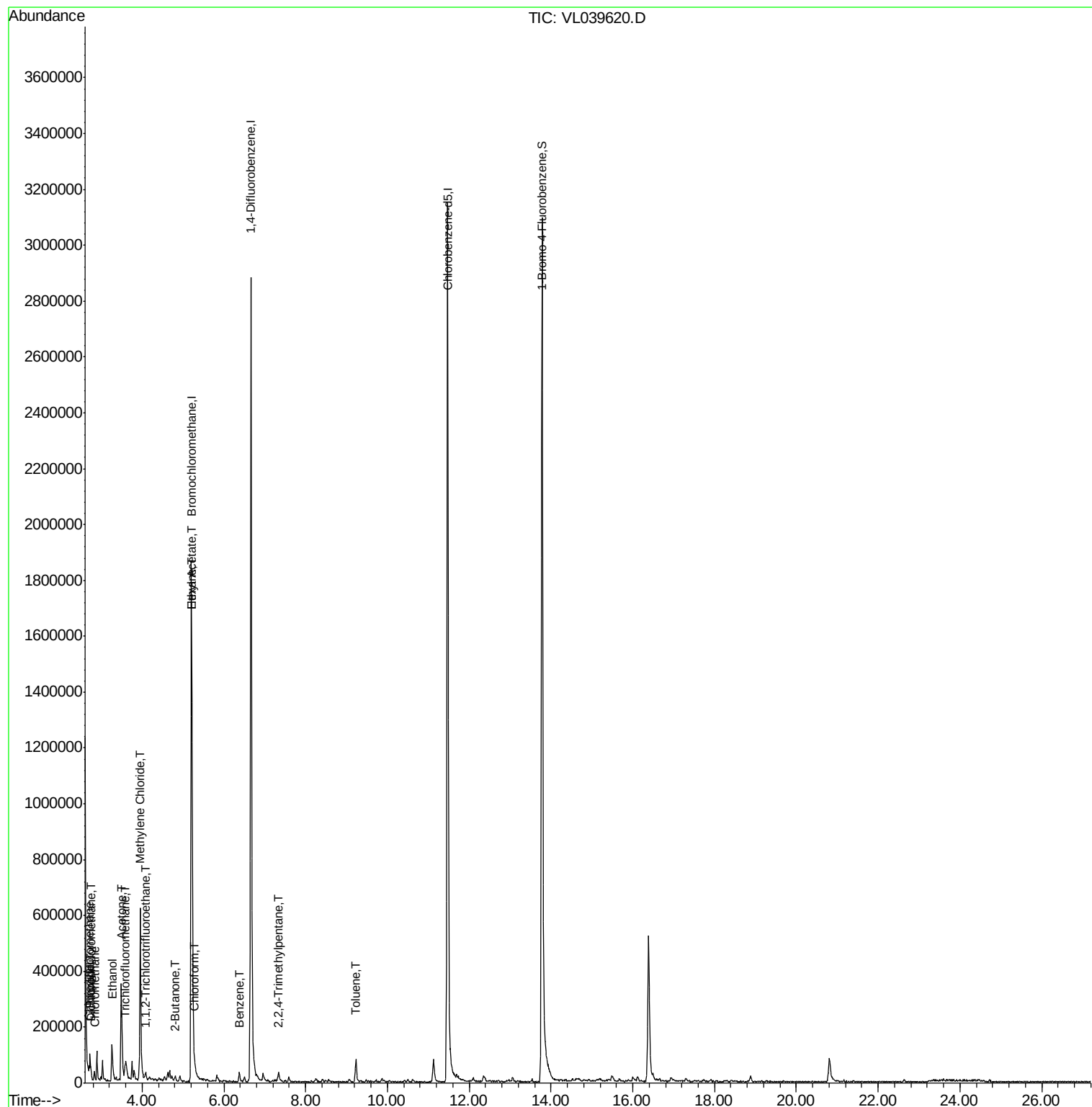
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090722\
Data File : VL039620.D
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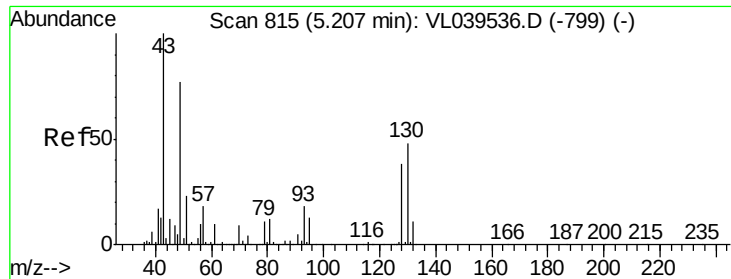
Instrument :
MSVOA_L
ClientSampleId :
OA-1

Quant Time: Sep 08 05:49:59 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081722
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Fri Aug 26 06:05:16 2022
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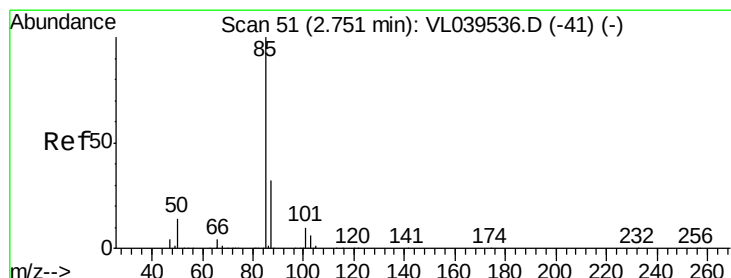
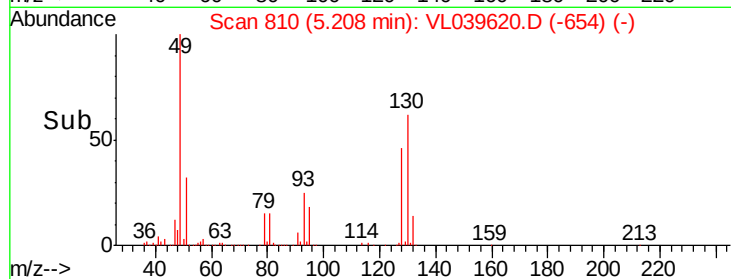
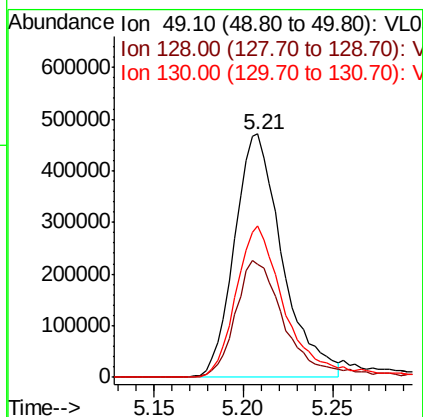
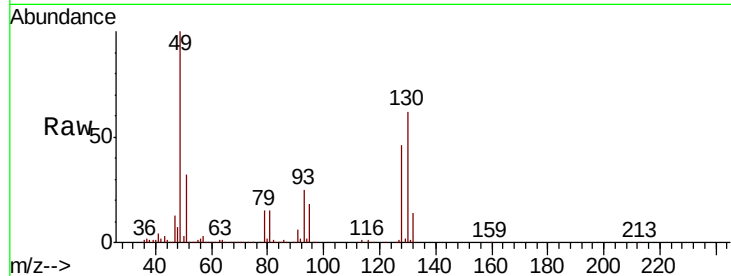


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.21
 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

Tot Ion:
 Ion Ratio
 49 100
 128 51.
 130 66.

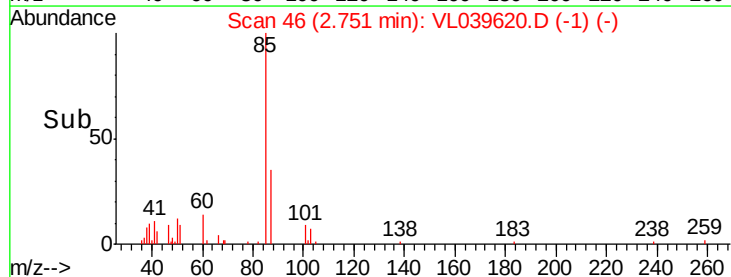
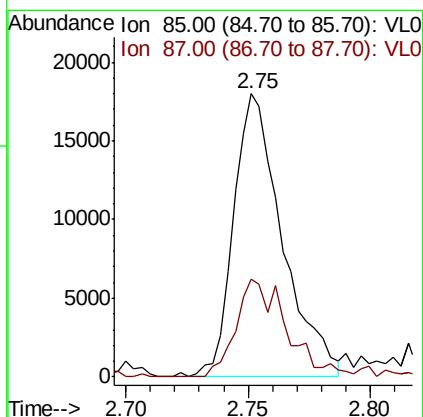
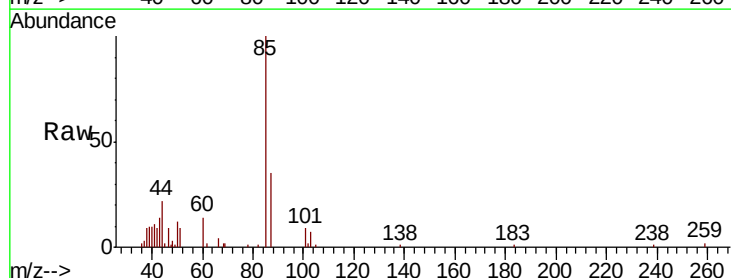
Manual Integrations
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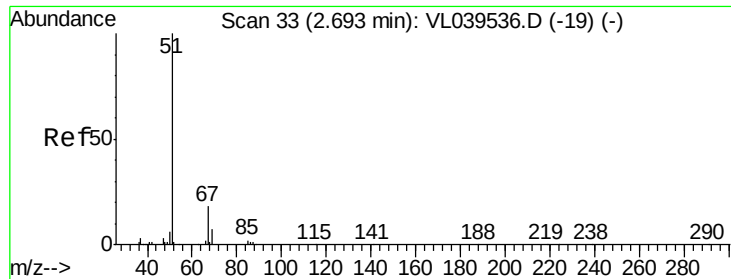
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



#2
 Dichlorodifluoromethane
 Concen: 0.213 ppbv
 RT: 2.75 min Scan# 46
 Delta R.T. 0.00 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

Tgt Ion: 85 Resp: 24886
 Ion Ratio Lower Upper
 85 100
 87 34.6 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.559 ppbv

RT: 2.70 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 7 Sep 2022 15:34

Tot Ion:

Ion Ratio

51 100

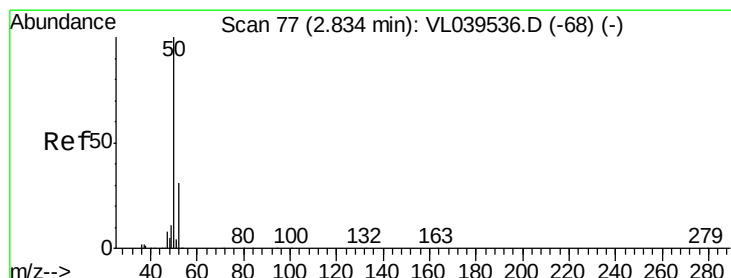
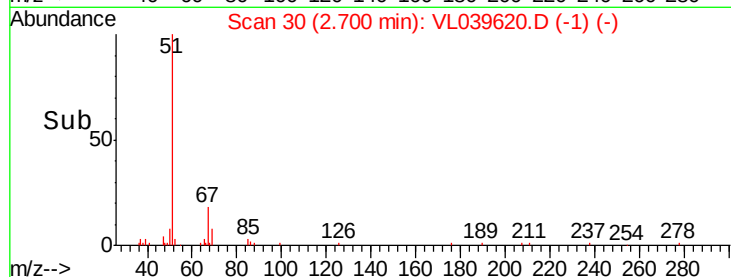
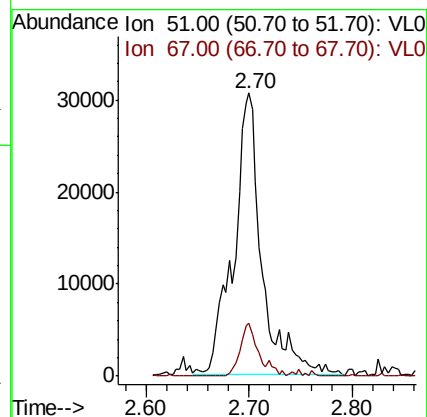
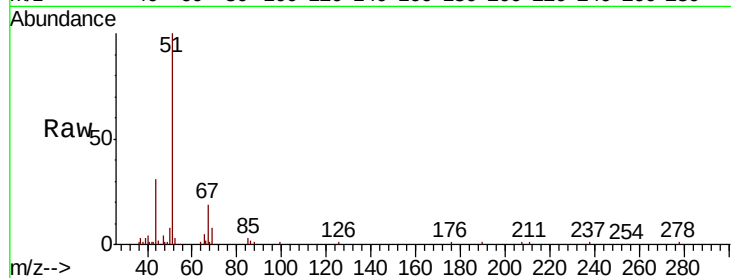
67 12.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#4

Chloromethane

Concen: 0.415 ppbv

RT: 2.84 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039620.D

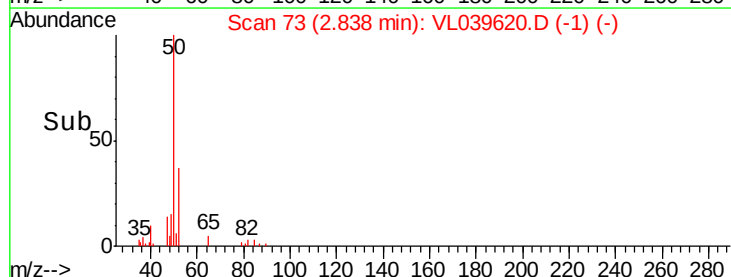
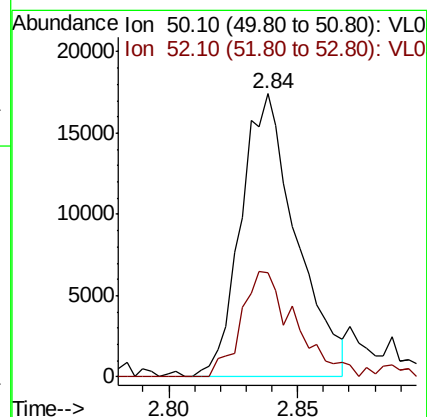
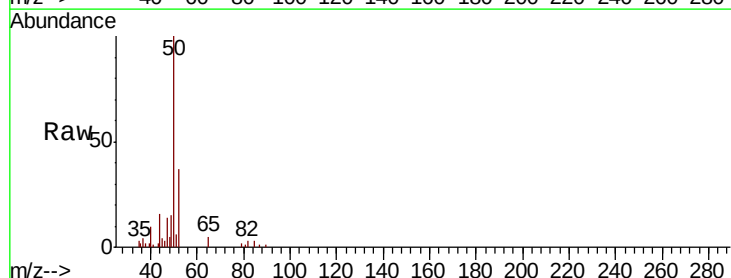
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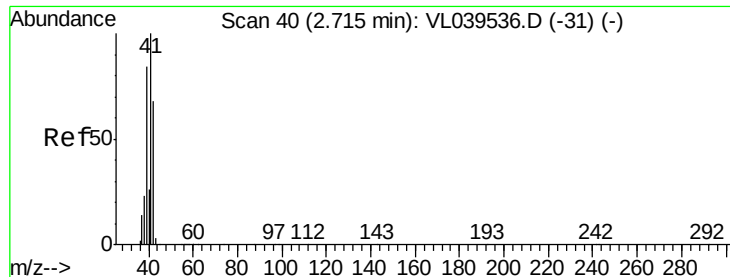
Tgt Ion: 50 Resp: 26204

Ion Ratio Lower Upper

50 100

52 36.7 26.5 39.7





#9

Propene

Concen: 0.524 ppbv m

RT: 2.72 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 7 Sep 2022 15:34

Tot Ion:

Ion Ratio

41 100

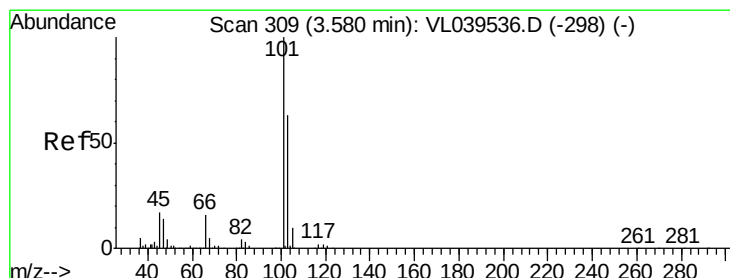
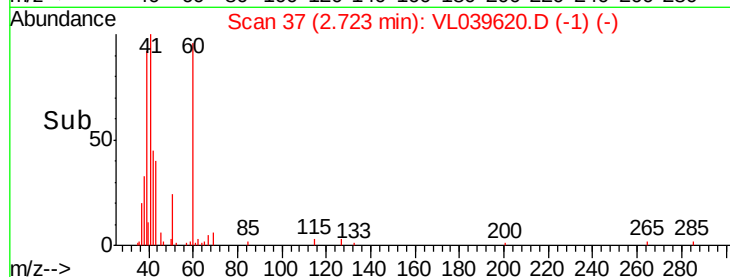
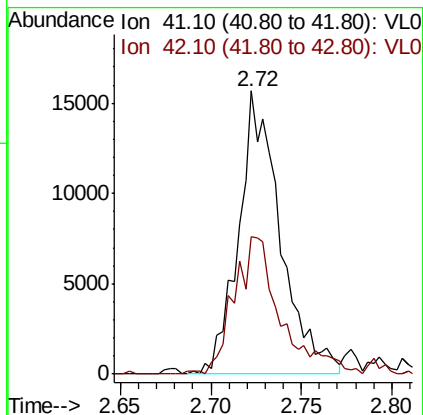
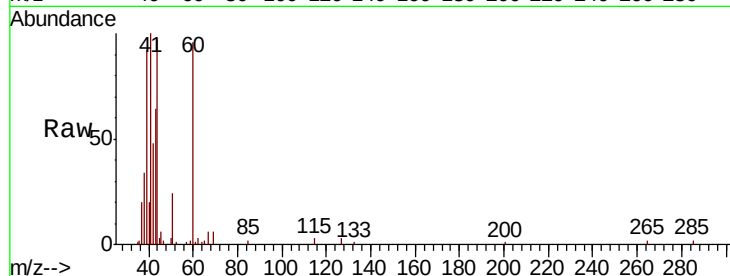
42 56.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 3.58 min Scan# 305

Delta R.T. 0.00 min

Lab File: VL039620.D

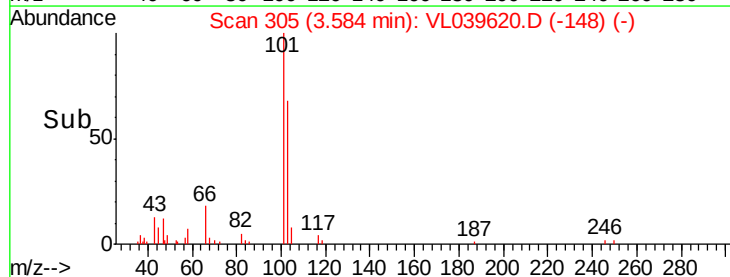
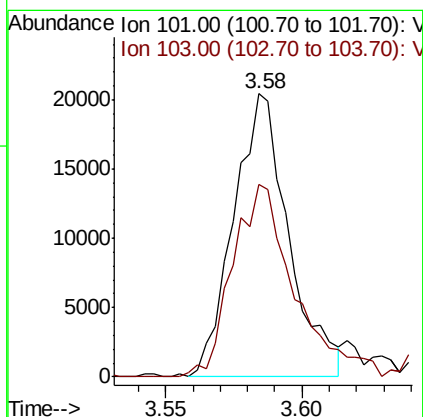
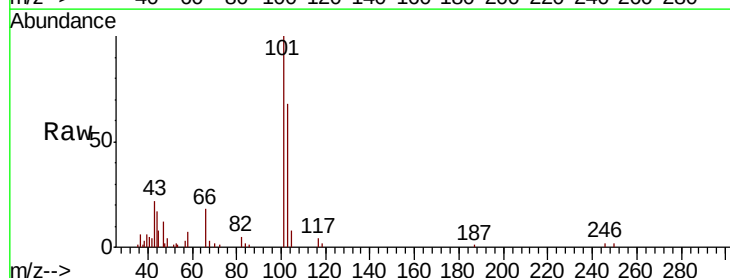
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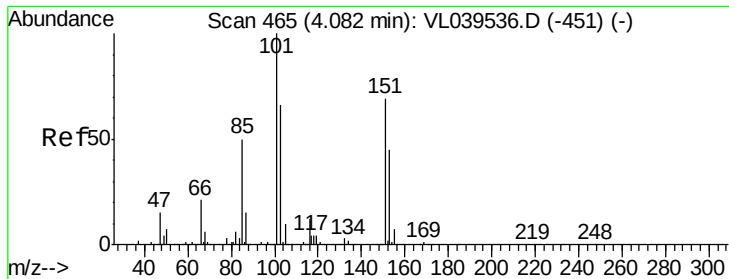
Tgt Ion:101 Resp: 28649

Ion Ratio Lower Upper

101 100

103 66.6 51.8 77.8



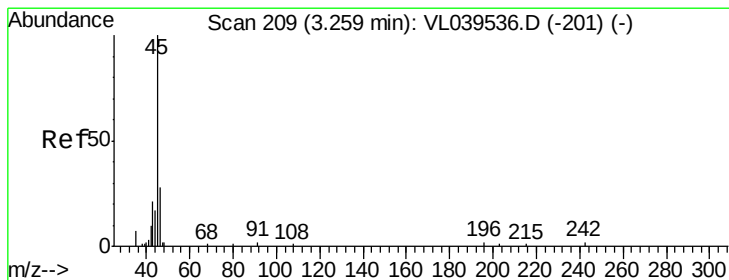
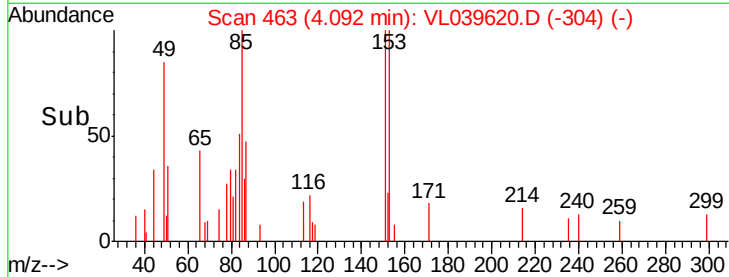
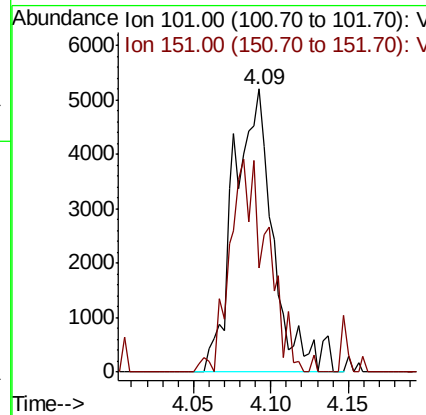
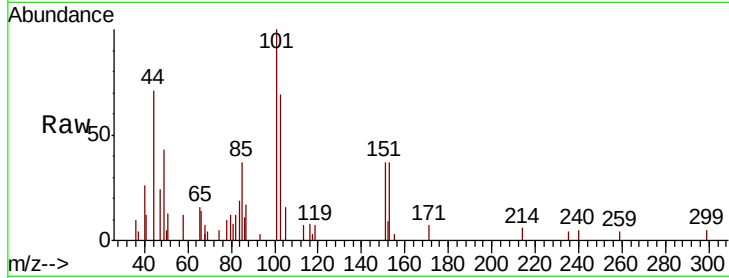


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.098 ppbv m
 RT: 4.09
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

Tot Ion:1
 Ion Rati
 101 100
 151 71.

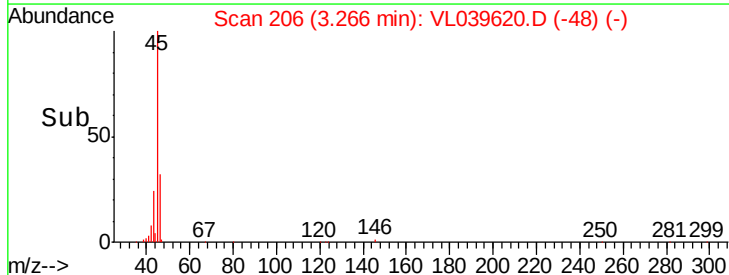
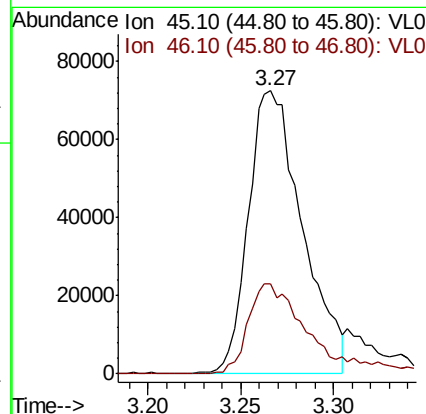
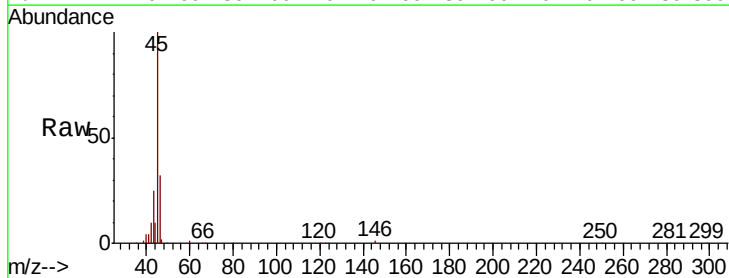
Manual Integrations
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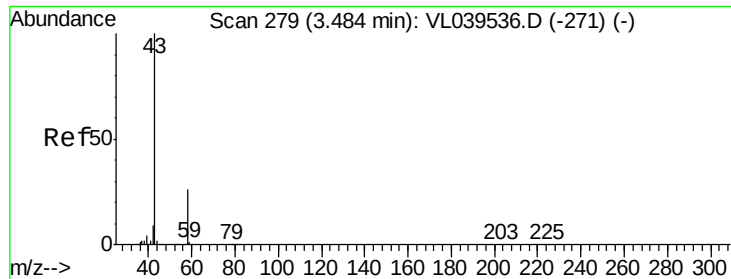
Reviewed By :Semsettin Yesilyurt 09/08/2022
 Supervised By :Mahesh Dadoda 09/08/2022



#13
 Ethanol
 Concen: 42.600 ppbv
 RT: 3.27 min Scan# 206
 Delta R.T. 0.01 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

Tgt Ion: 45 Resp: 146756
 Ion Ratio Lower Upper
 45 100
 46 36.8 22.8 91.2



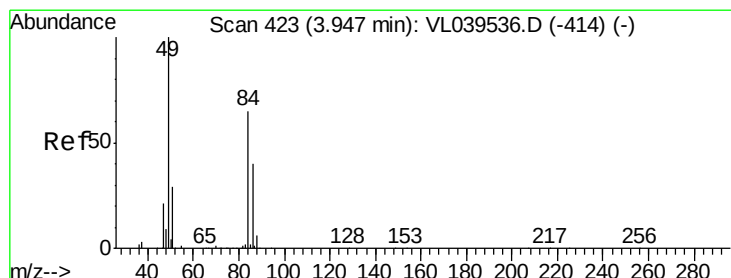
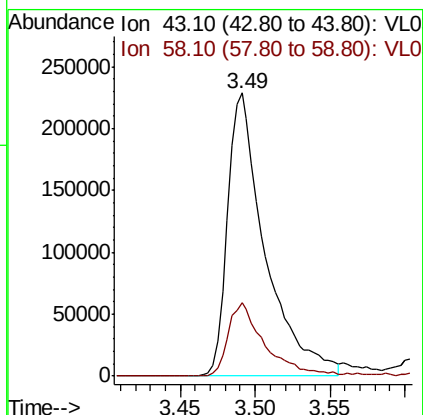
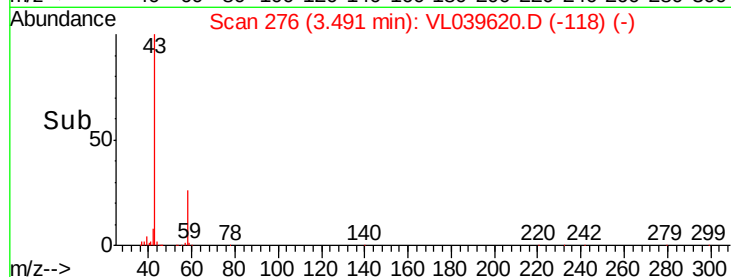
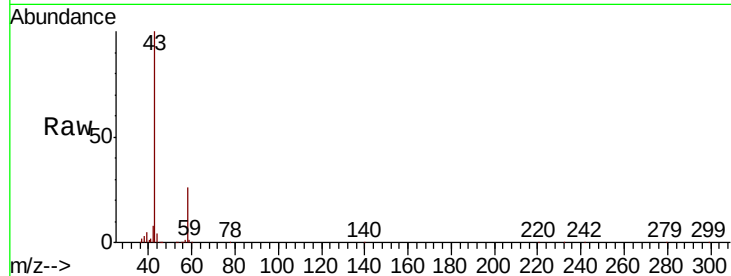


#15
Acetone
Concen: 4.069 ppbv
RT: 3.49
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 15:34

Tot Ion:
Ion Ratio
43 100
58 26.

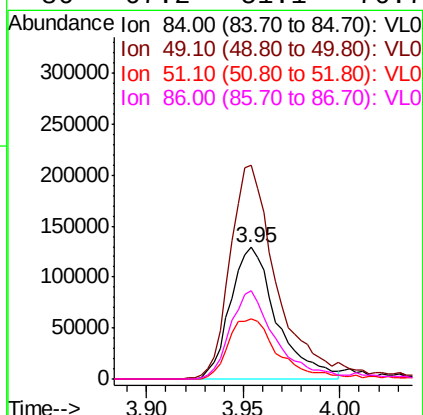
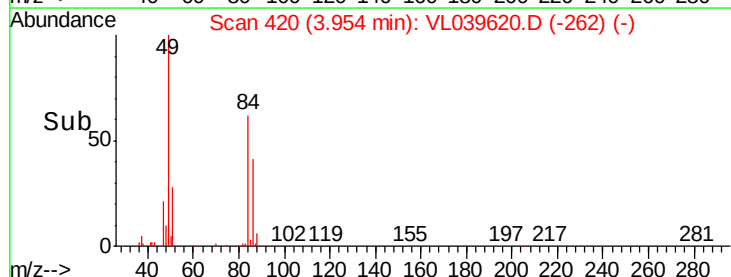
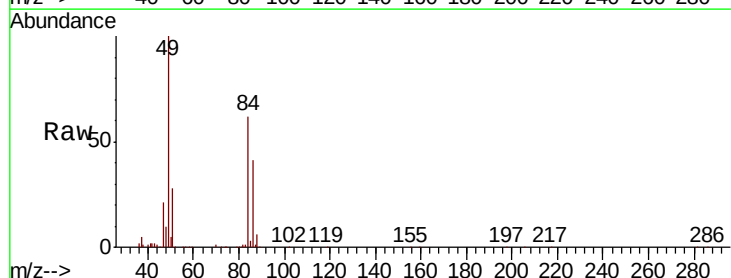
Manual Integrations
APPROVED

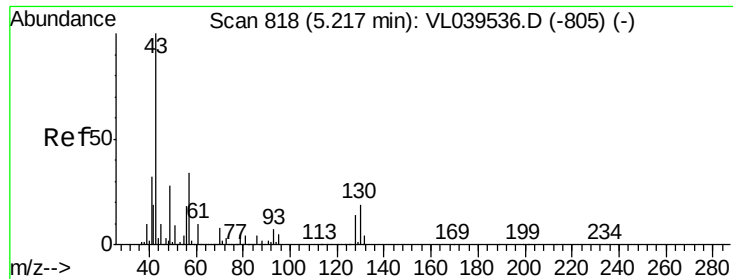
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#20
Methylene Chloride
Concen: 5.411 ppbv
RT: 3.95 min Scan# 420
Delta R.T. 0.01 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

Tgt Ion: 84 Resp: 216510
Ion Ratio Lower Upper
84 100
49 161.6 123.1 184.7
51 45.7 34.4 51.6
86 67.2 51.1 76.7

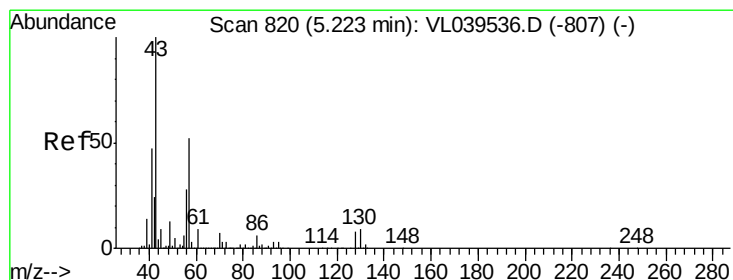
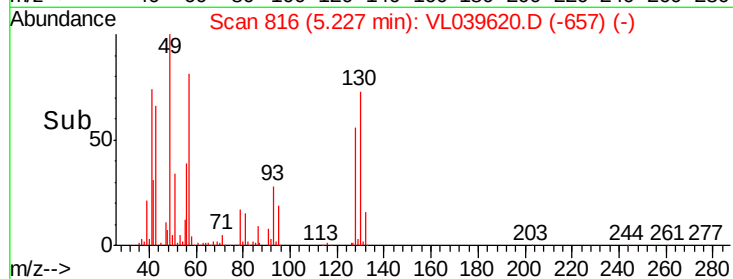
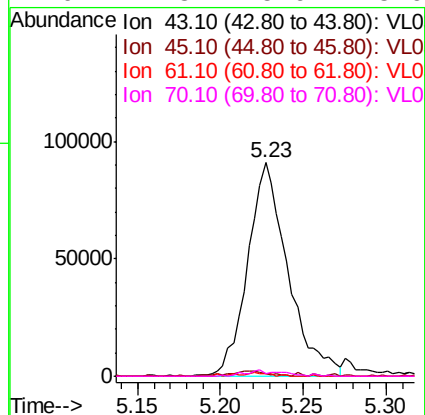
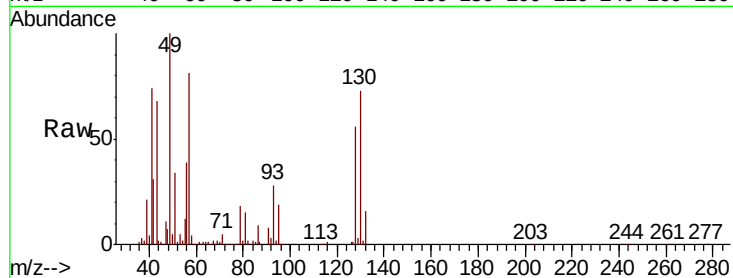




#25
Ethyl Acetate
Concen: 0.727 ppbv
RT: 5.23 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Sep 2022 15:34

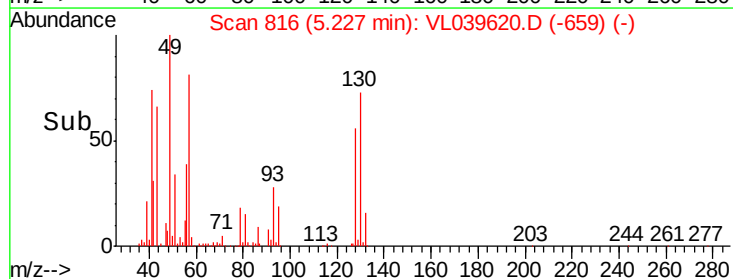
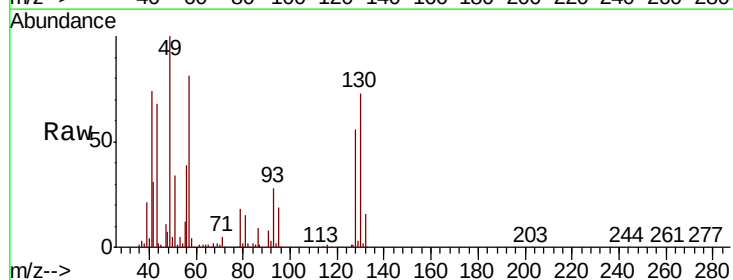
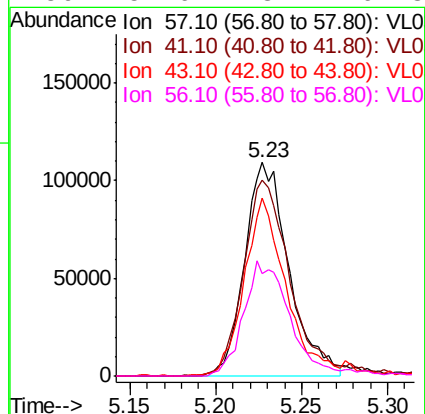
Tot Ion: Manual Integrations
Ion Ratio APPROVED
43 100
45 2.
61 1.
70 2.8 5.9 8.9#

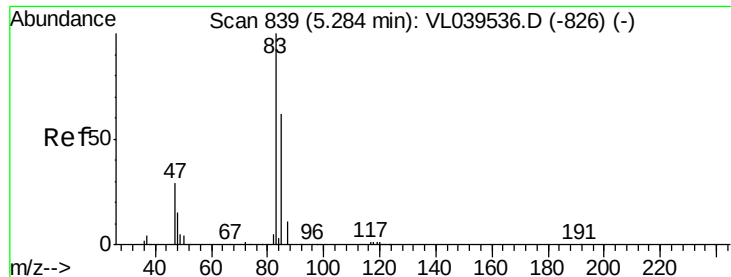
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#26
Hexane
Concen: 2.274 ppbv
RT: 5.23 min Scan# 816
Delta R.T.: 0.00 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

Tgt Ion: 57 Resp: 195614
Ion Ratio Lower Upper
57 100
41 100.1 76.9 115.3
43 83.1 191.0 286.6#
56 57.6 43.2 64.8



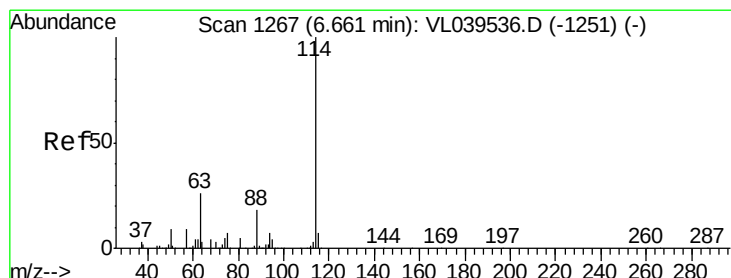
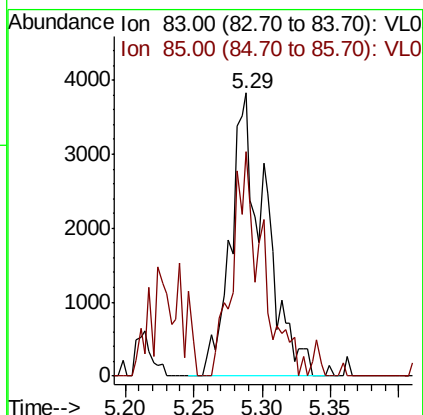
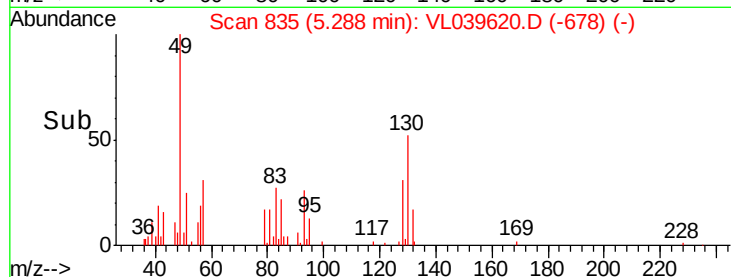
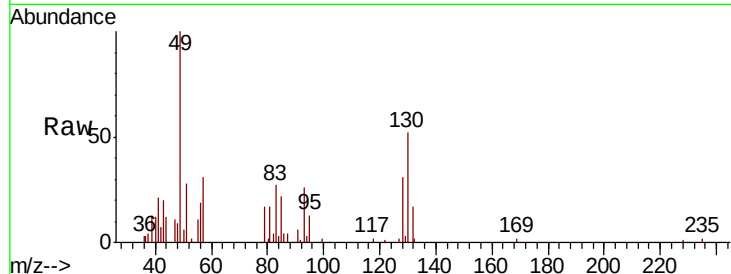


#29
Chloroform
Concen: 0.050 ppbv m
RT: 5.29
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Sep 2022 15:34

Tot Ion:
Ion Ratio
83 100
85 79.

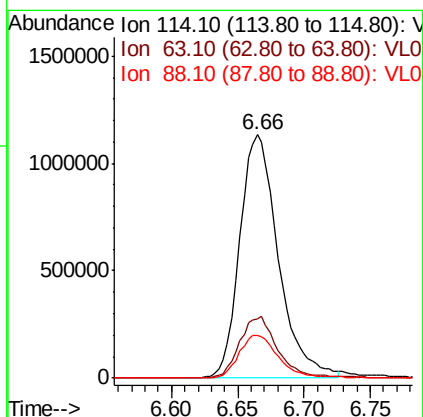
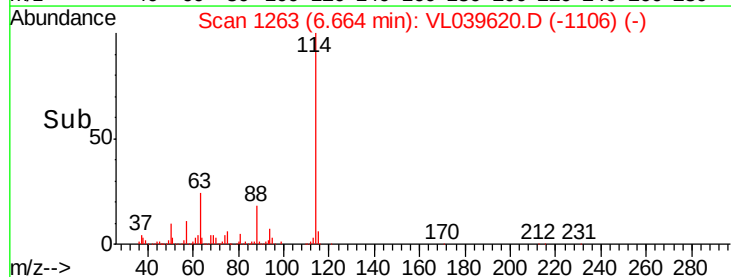
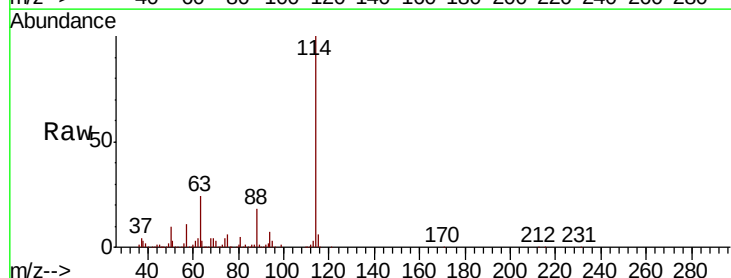
Manual Integrations
APPROVED

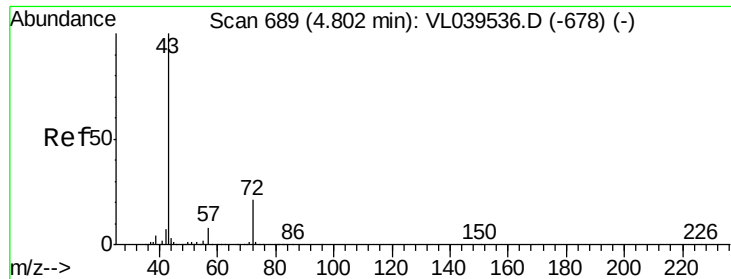
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.66 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

Tgt Ion:114 Resp: 2304212
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 18.3 14.5 21.7



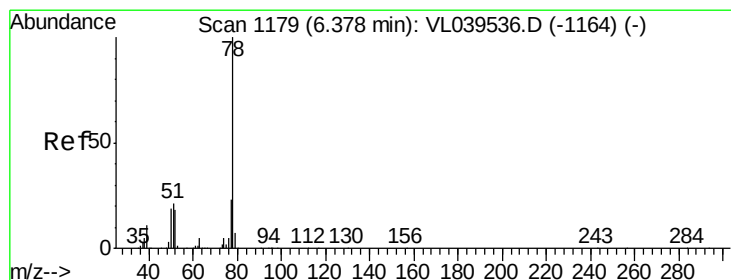
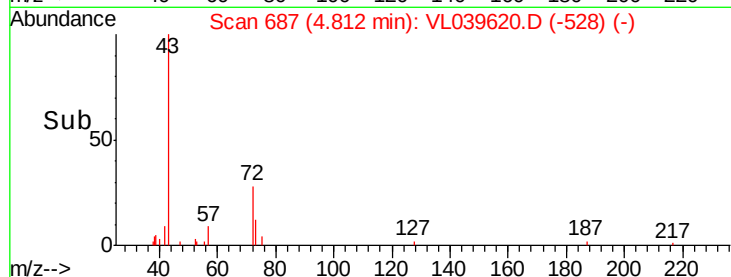
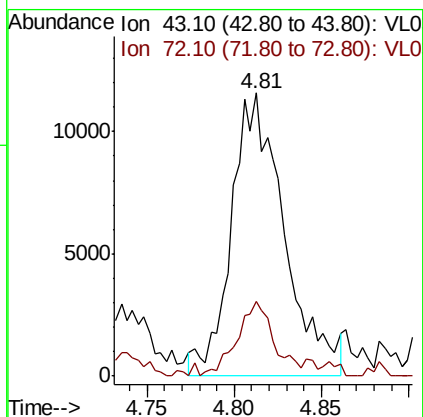
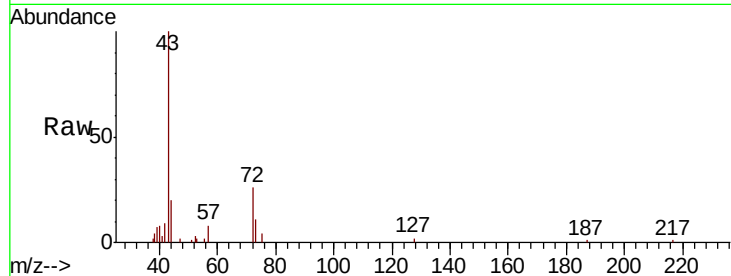


#34
2-Butanone
Concen: 0.213 ppbv m
RT: 4.81
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 15:34

Tot Ion:
Ion Ratio
43 100
72 21.

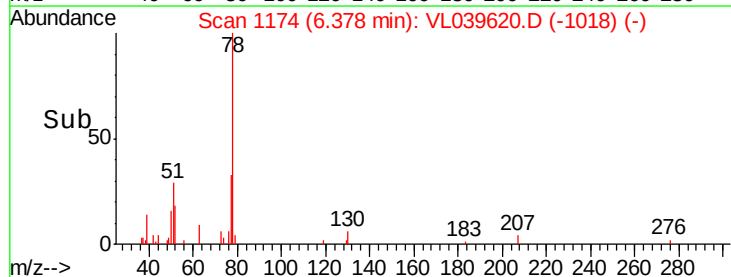
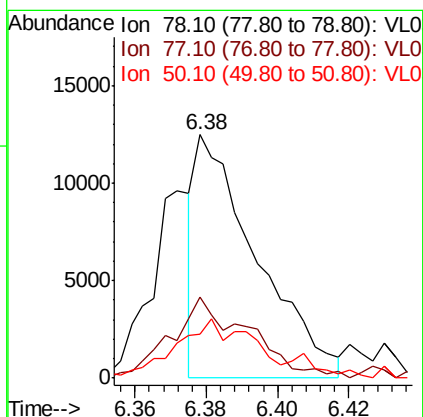
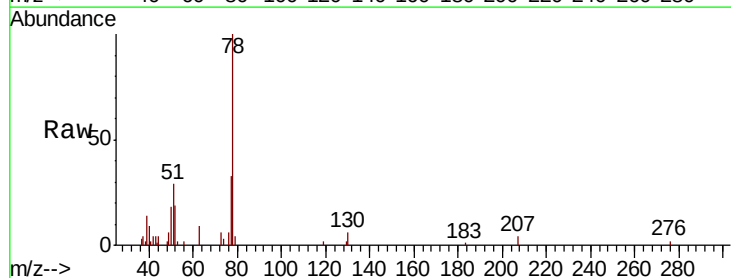
Manual Integrations
APPROVED

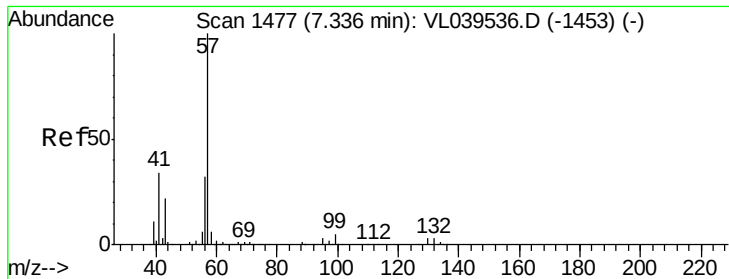
Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



#36
Benzene
Concen: 0.084 ppbv
RT: 6.38 min Scan# 1174
Delta R.T. 0.00 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

Tgt Ion: 78 Resp: 14751
Ion Ratio Lower Upper
78 100
77 33.5 20.3 30.5#
50 17.6 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 0.076 ppbv m

RT: 7.33 Instrument:

Delta R.T. MSVOA_L

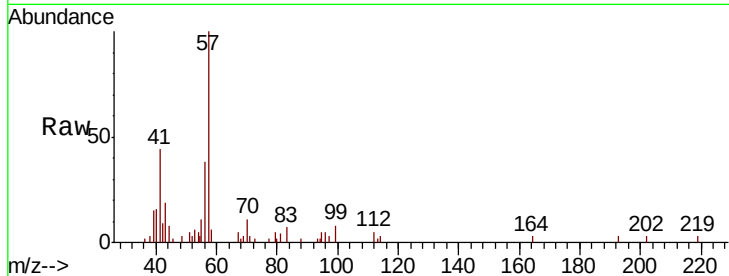
Lab File: ClientSampleId:

Acq: 7 Sep 2022 15:34

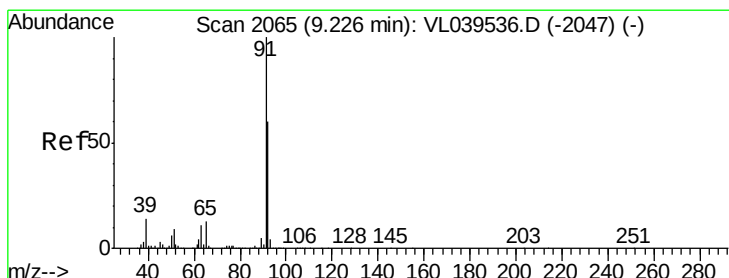
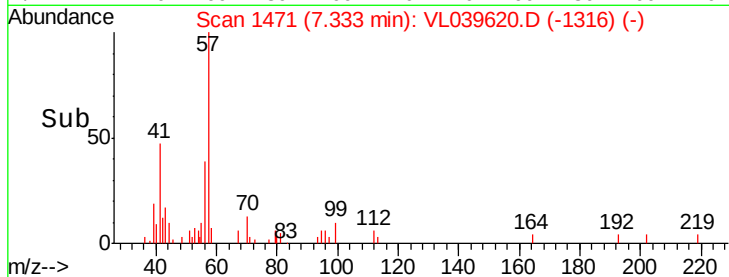
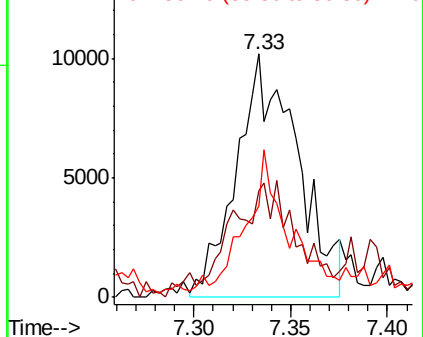
Tot Ion:
Ion Ratio
57 100
41 52.
56 0.

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Reviewed By :Semsettin Yesilyurt 09/08/2022
Supervised By :Mahesh Dadoda 09/08/2022



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.291 ppbv

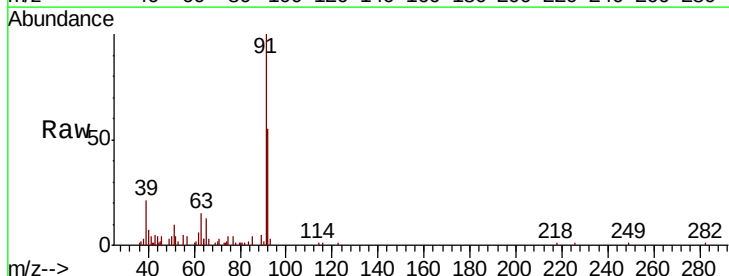
RT: 9.23 min Scan# 2062

Delta R.T. 0.01 min

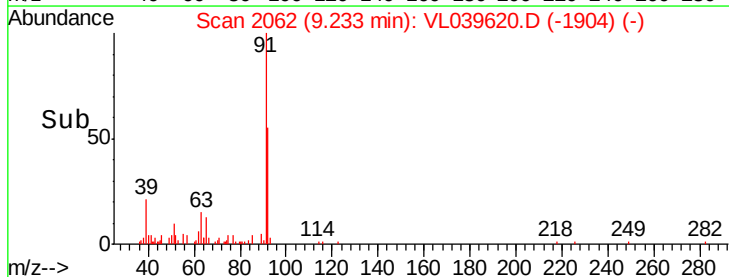
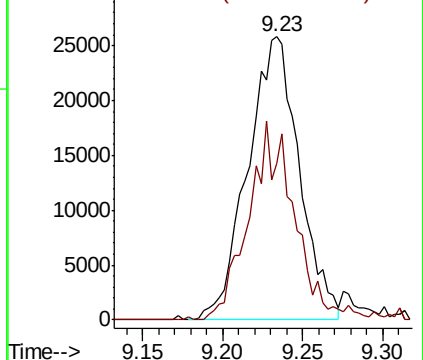
Lab File: VL039620.D

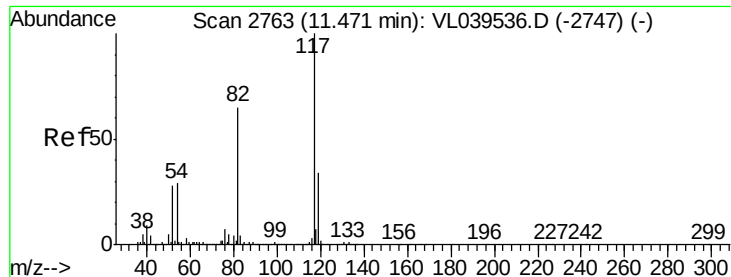
Acq: 7 Sep 2022 15:34

Tgt Ion: 91 Resp: 57268
Ion Ratio Lower Upper
91 100
92 62.5 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



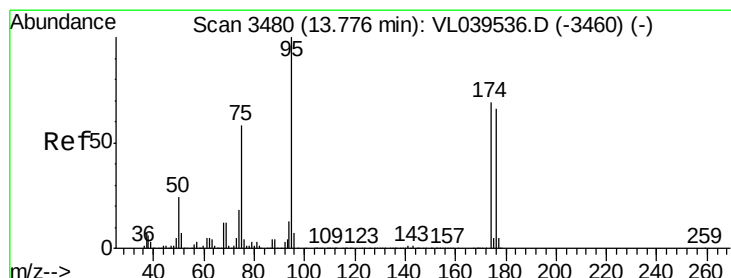
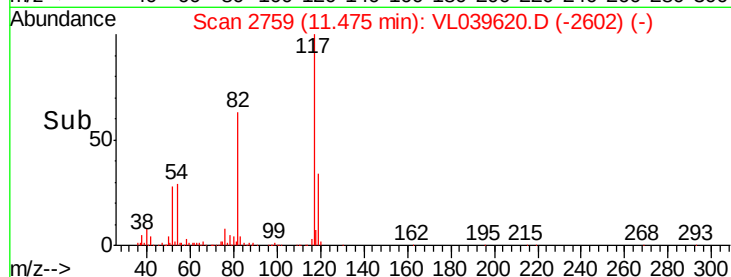
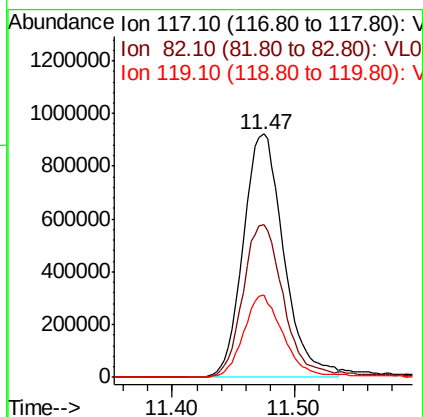
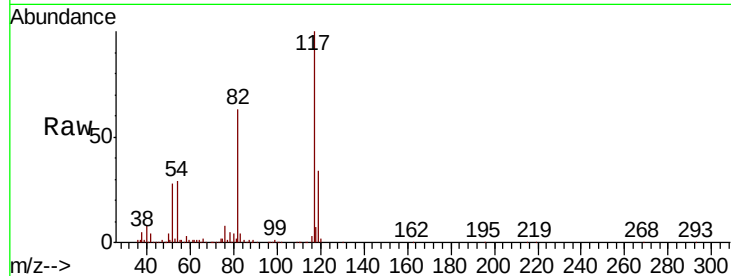


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 11.47 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

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

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/08/2022
 Supervised By : Mahesh Dadoda 09/08/2022



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.778 ppbv
 RT: 13.78 min Scan# 3476
 Delta R.T.: 0.00 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

Tgt Ion: 95 Resp: 1560033
 Ion Ratio Lower Upper
 95 100
 174 74.7 55.9 83.9
 175 5.5 4.2 6.4

