

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038846.D
 Acq On : 7 Apr 2022 18:14
 Operator : SY/AP
 Sample : N2273-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1160-A1-2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/09/2022
 Supervised By : Mahesh Dadoda 04/11/2022

Quant Time: Apr 09 14:14:46 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1279230	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3049073	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2723512	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2167928	10.49	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	124452	0.686	ppbv	93
3) Chlorodifluoromethane	3.01	51	74041	0.474	ppbv #	88
4) Chloromethane	3.16	50	39415	0.488	ppbv	90
9) Propene	3.04	41	822287m	9.955	ppbv	
10) Heptane	8.15	43	97157	0.467	ppbv	98
11) Trichlorofluoromethane	3.98	101	36444m	0.250	ppbv	
13) Ethanol	3.62	45	284415	56.660	ppbv #	100
15) Acetone	3.87	43	2887527	22.672	ppbv	97
19) Isopropyl Alcohol	3.99	45	125887	1.934	ppbv #	100
20) Methylene Chloride	4.37	84	128596	2.784	ppbv	91
26) Hexane	5.72	57	342300	2.327	ppbv #	50
30) Cyclohexane	7.16	84	26958	0.208	ppbv #	22
34) 2-Butanone	5.28	43	271014	2.249	ppbv	92
35) Carbon Tetrachloride	7.05	117	14287m	0.078	ppbv	
36) Benzene	6.92	78	118778	0.428	ppbv	98
38) Trichloroethene	7.85	130	7222m	0.063	ppbv	
44) 2,2,4-Trimethylpentane	7.90	57	134444m	0.286	ppbv	
52) Tetrachloroethene	11.24	164	45737	0.472	ppbv #	80
53) Toluene	9.83	91	1328635	4.149	ppbv	99
58) Ethyl Benzene	12.73	91	344410	0.846	ppbv	89
59) m/p-Xylene	12.99	91	1006301	2.943	ppbv	100
60) o-Xylene	13.71	91	352151	1.101	ppbv	95
61) Styrene	13.55	104	291284	1.494	ppbv	97
72) 4-Ethyltoluene	15.86	105	64018m	0.168	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	51832m	0.151	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	167140m	0.461	ppbv	

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

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Operator : SY/AP
Sample : N2273-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1160-A1-2

Manual Integrations
APPROVED

Quant Time: Apr 09 14:14:46 2022

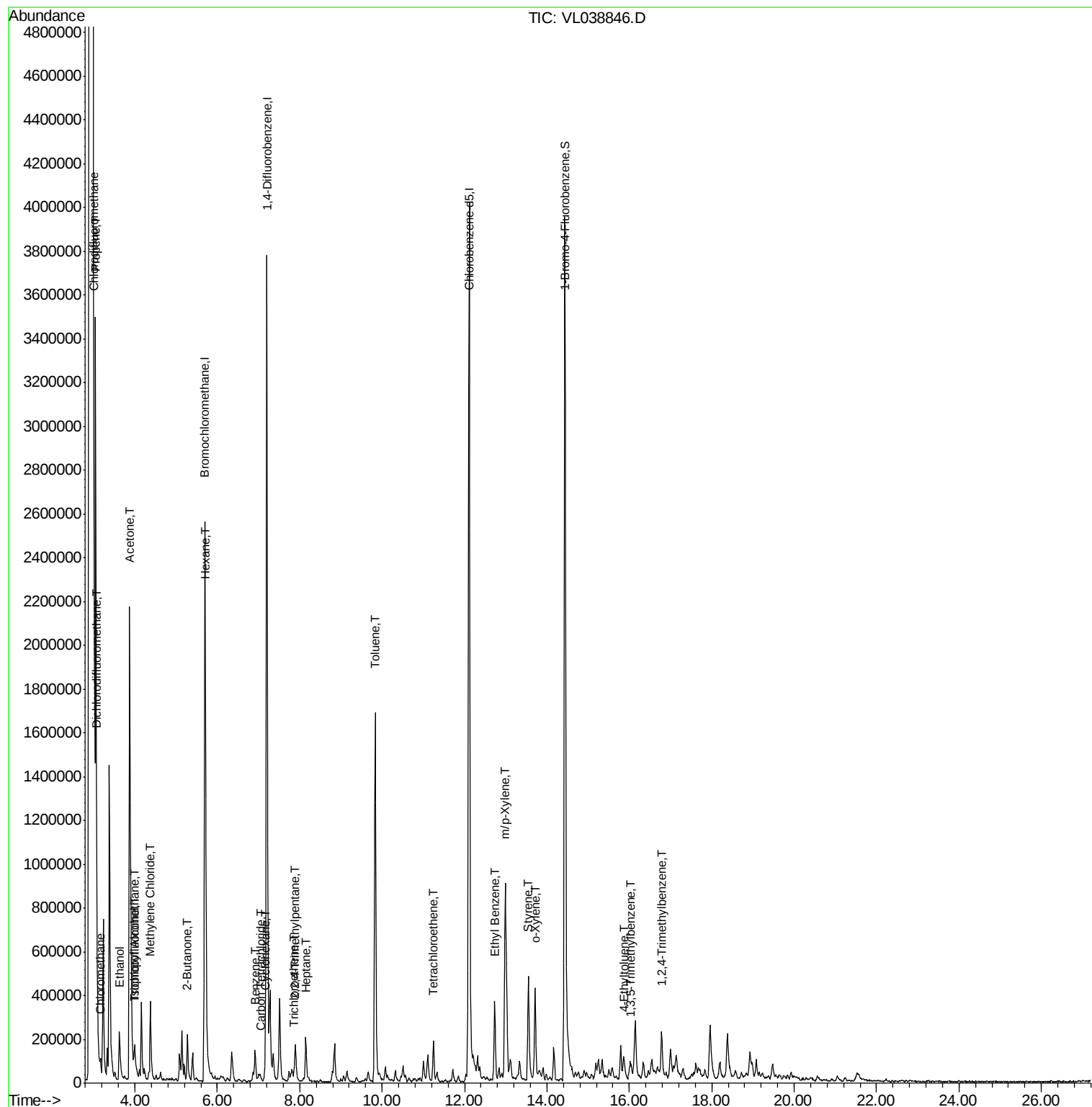
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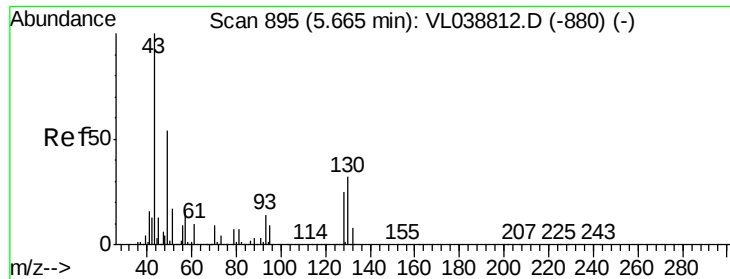
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 18:14

Tot Ion:

Ion Ratio

49 100

128 45.

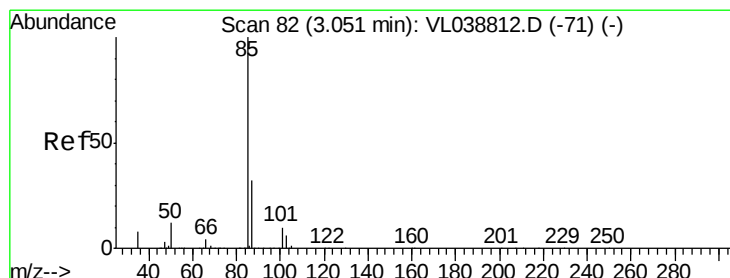
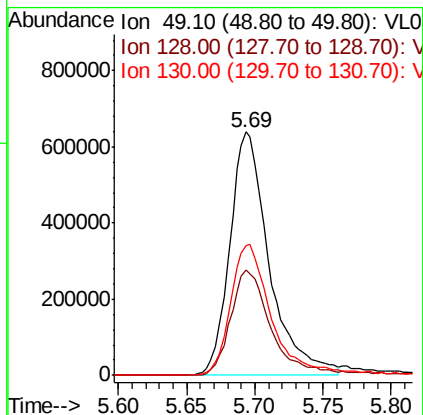
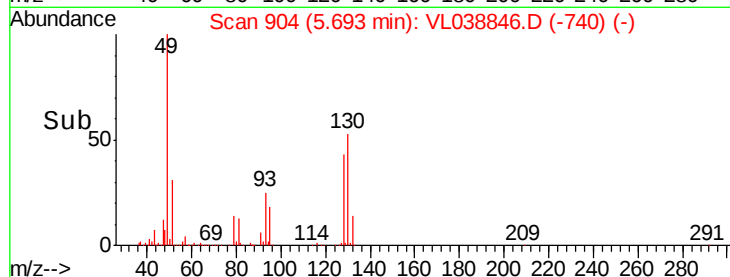
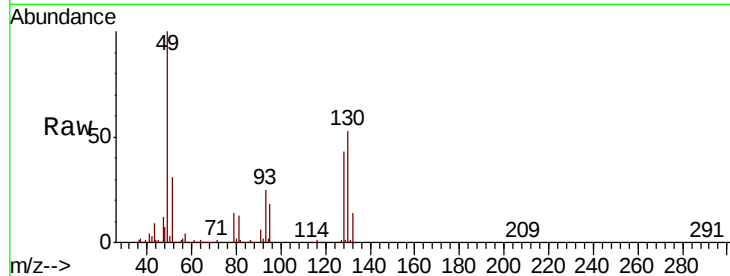
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#2

Dichlorodifluoromethane

Concen: 0.686 ppbv

RT: 3.07 min Scan# 89

Delta R.T. 0.02 min

Lab File: VL038846.D

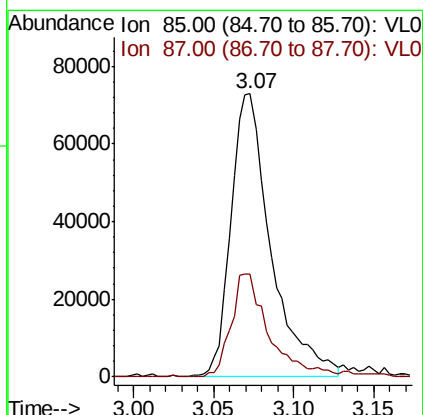
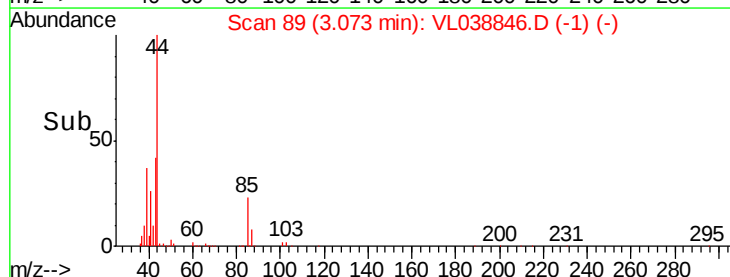
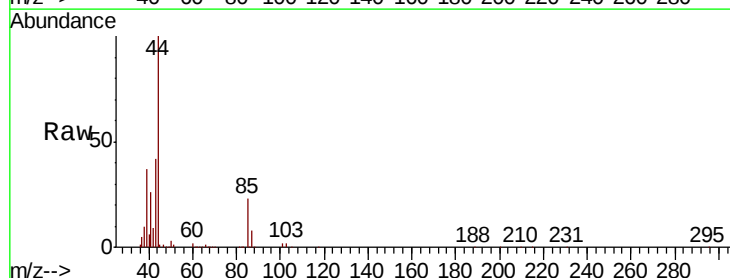
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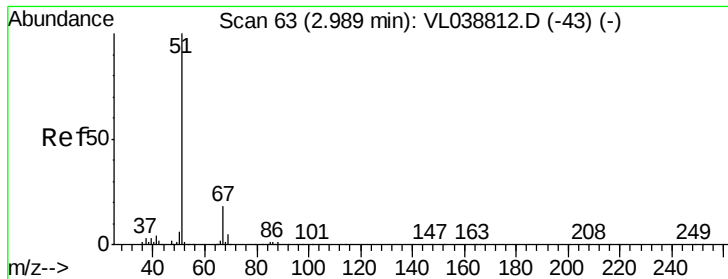
Tgt Ion: 85 Resp: 124452

Ion Ratio Lower Upper

85 100

87 36.3 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.474 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 7 Apr 2022 18:14

Tot Ion:

Ion Ratio

51 100

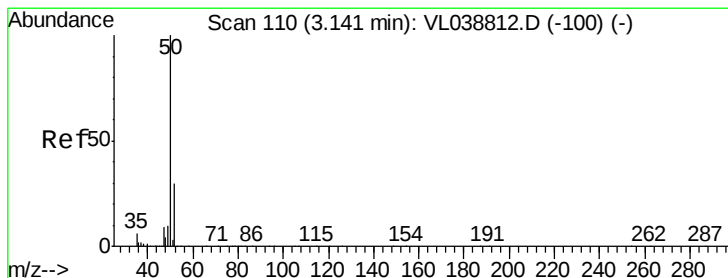
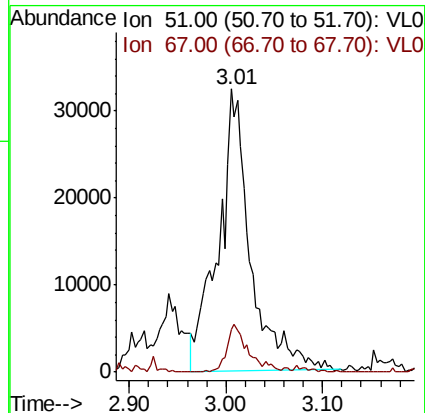
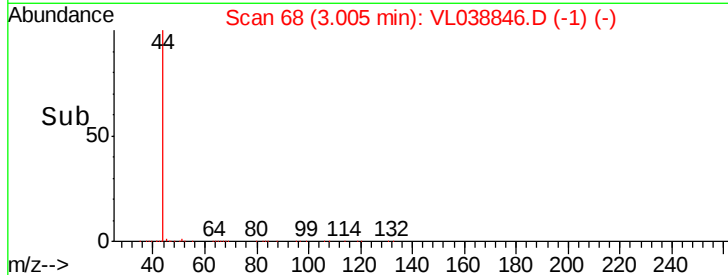
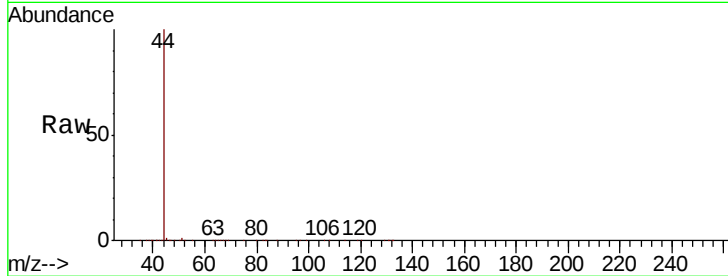
67 11.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

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#4

Chloromethane

Concen: 0.488 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.02 min

Lab File: VL038846.D

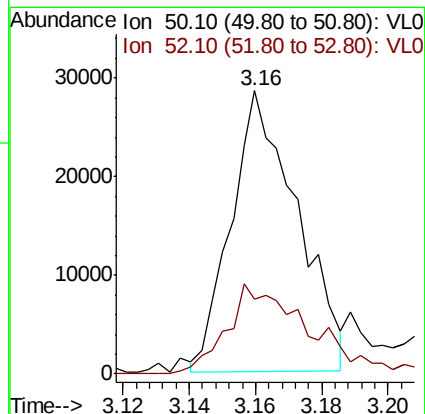
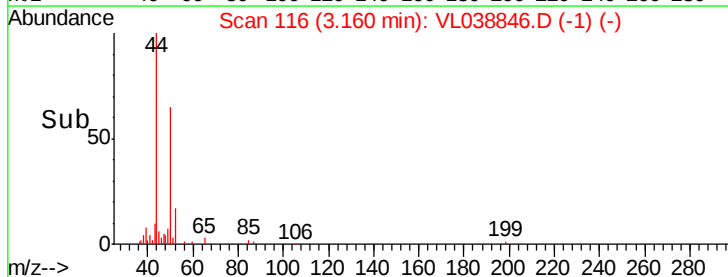
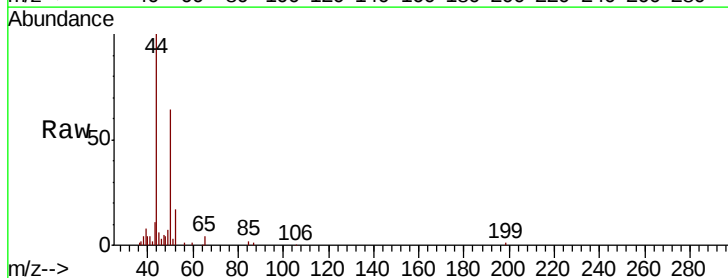
Acq: 7 Apr 2022 18:14

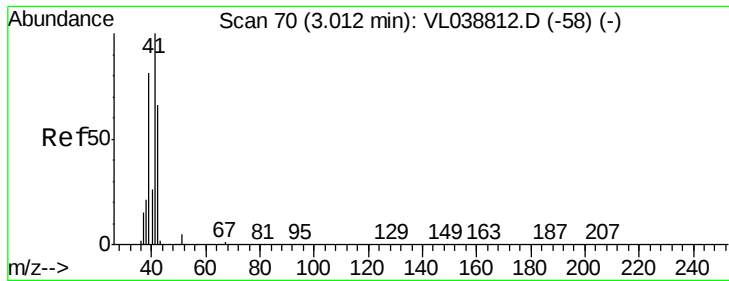
Tgt Ion: 50 Resp: 39415

Ion Ratio Lower Upper

50 100

52 24.9 24.3 36.5





#9

Propene

Concen: 9.955 ppbv m

RT: 3.04

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 18:14

Tot Ion:

Ion Ratio

41 100

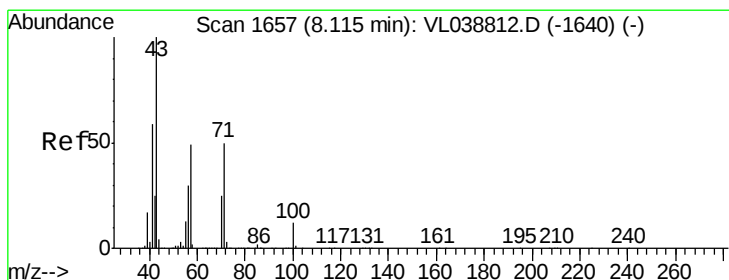
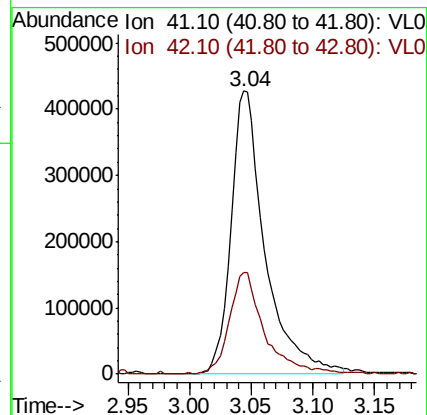
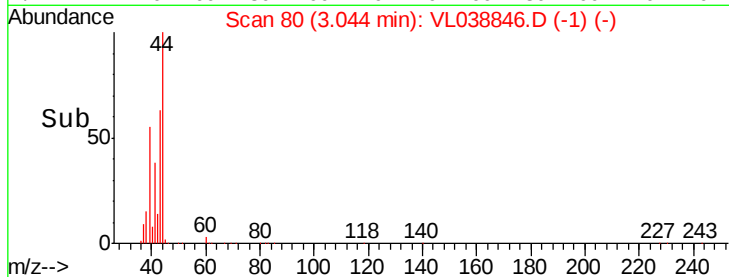
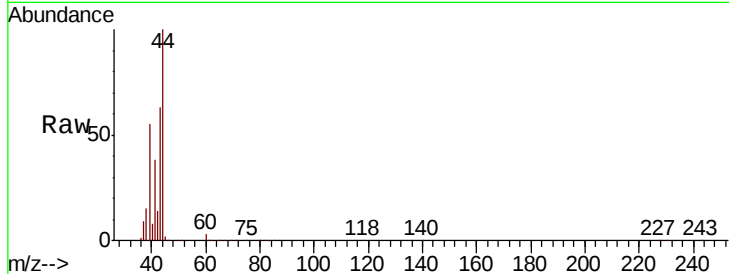
42 19.

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#10

Heptane

Concen: 0.467 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.04 min

Lab File: VL038846.D

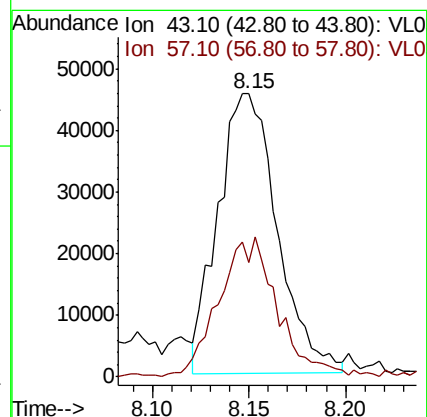
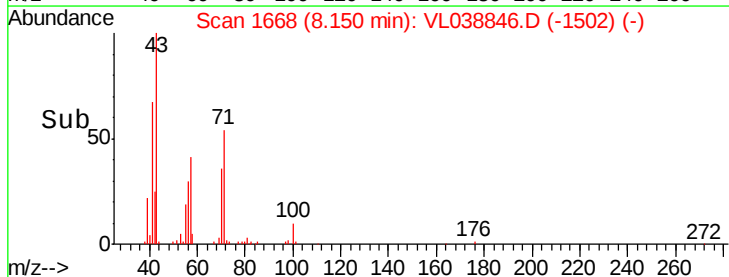
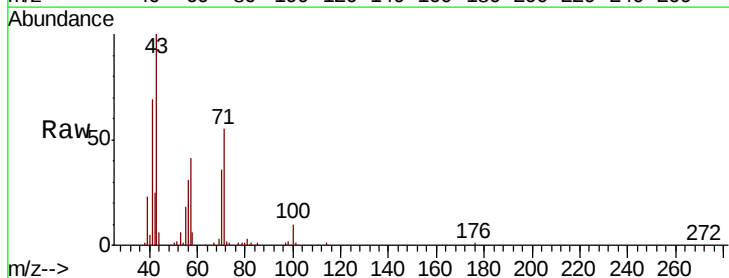
Acq: 7 Apr 2022 18:14

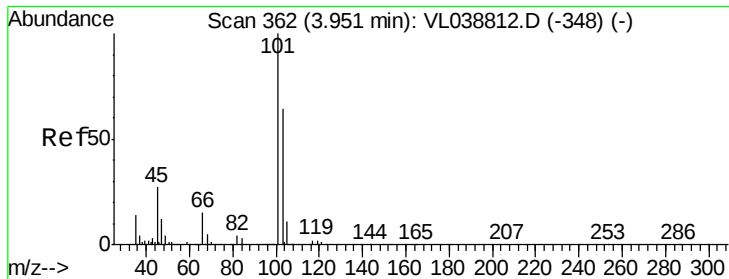
Tgt Ion: 43 Resp: 97157

Ion Ratio Lower Upper

43 100

57 50.8 39.3 58.9



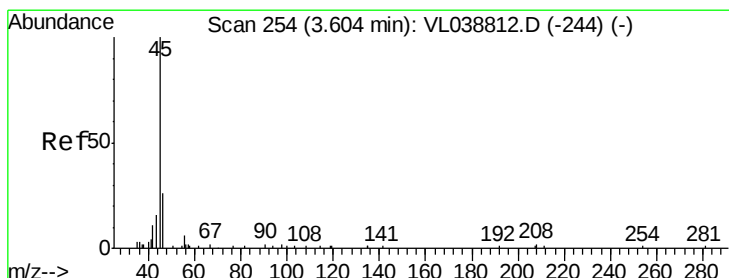
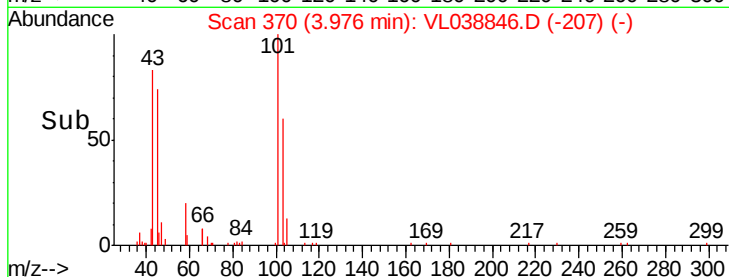
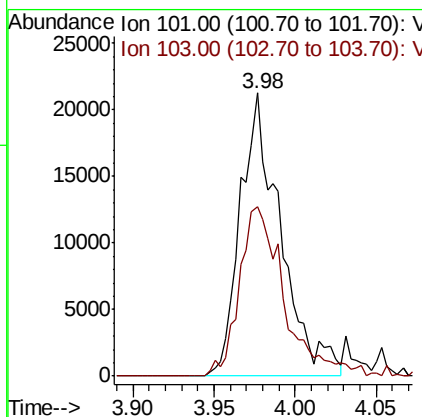
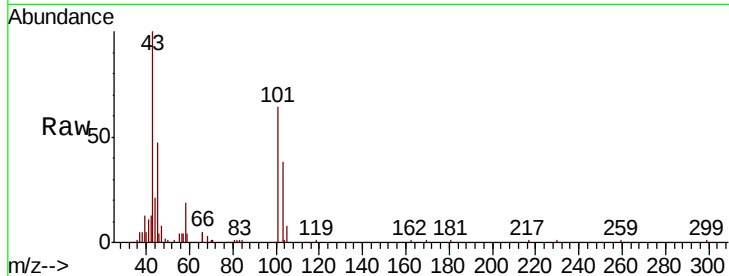


#11
 Trichlorofluoromethane
 Concen: 0.250 ppbv m
 RT: 3.98 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: 1160-A1-2
 Acq: 7 Apr 2022 18:14

Tot Ion:1
 Ion Rati
 101 100
 103 59.

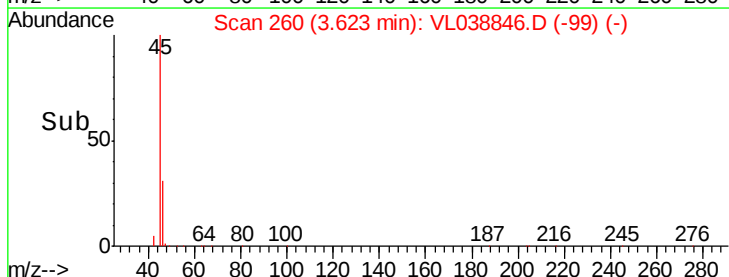
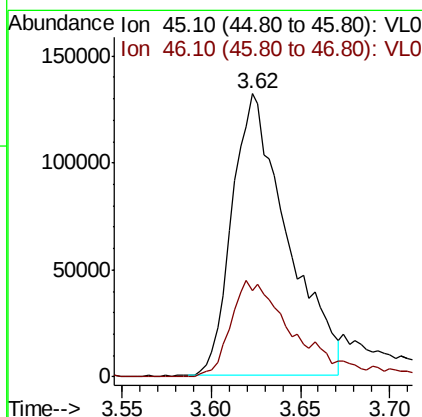
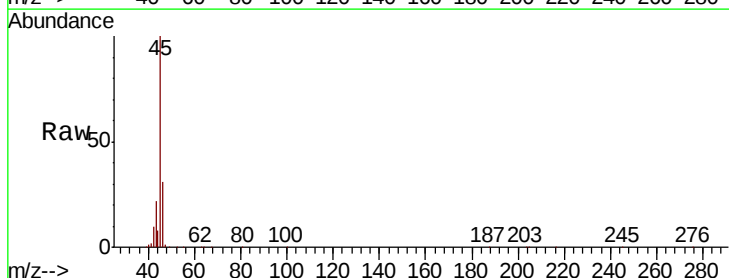
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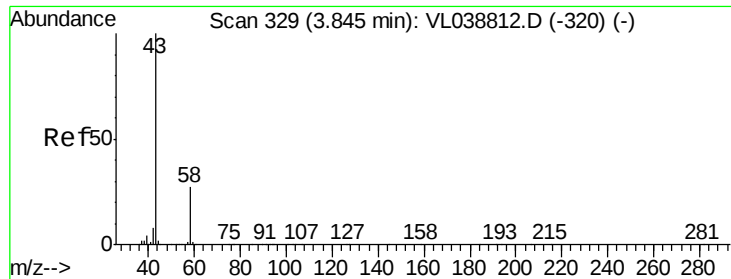
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#13
 Ethanol
 Concen: 56.660 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL038846.D
 Acq: 7 Apr 2022 18:14

Tgt Ion: 45 Resp: 284415
 Ion Ratio Lower Upper
 45 100
 46 42.6 0.0 0.0#



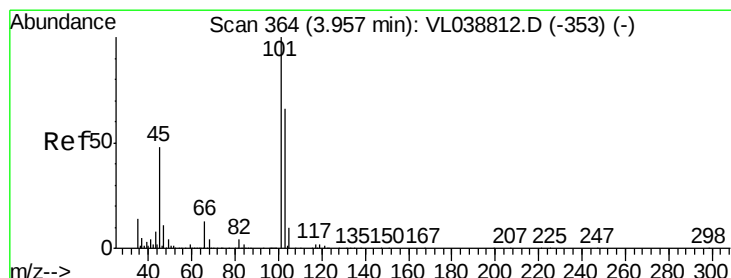
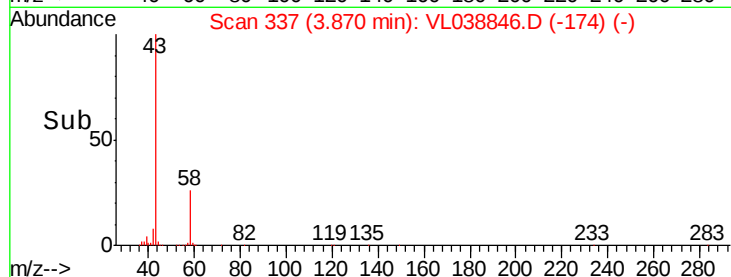
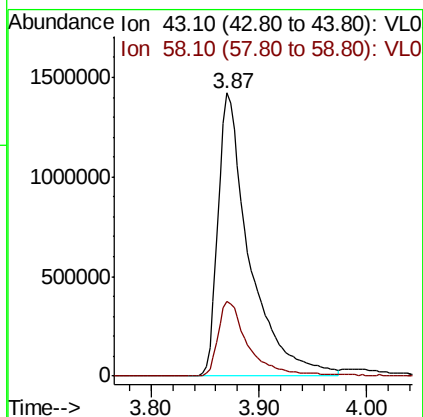
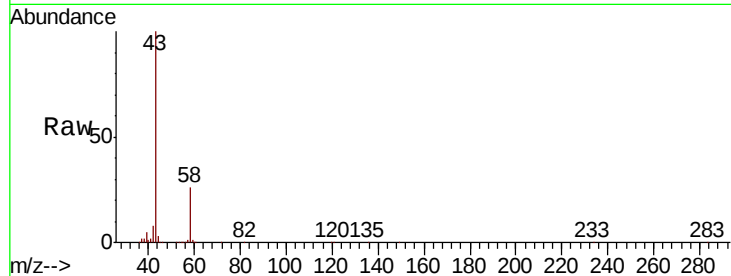


#15
Acetone
Concen: 22.672 ppbv
RT: 3.87
Instrument : MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
43 100
58 26.

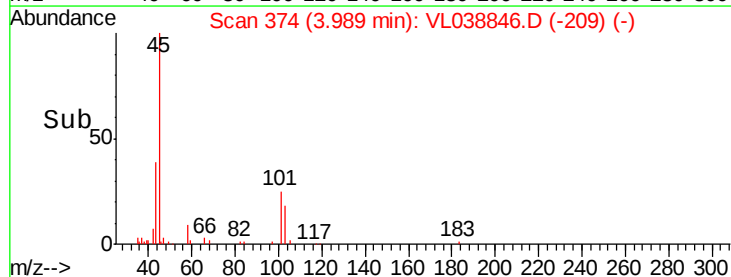
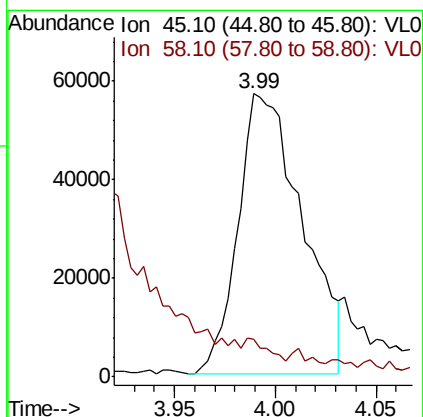
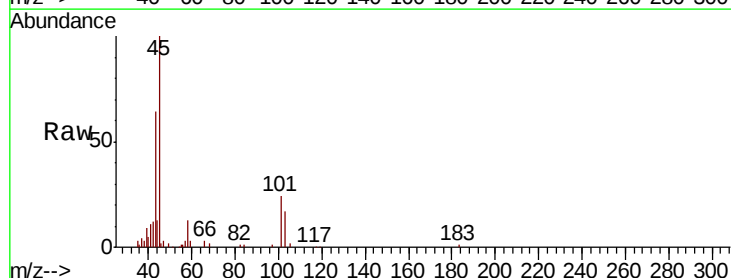
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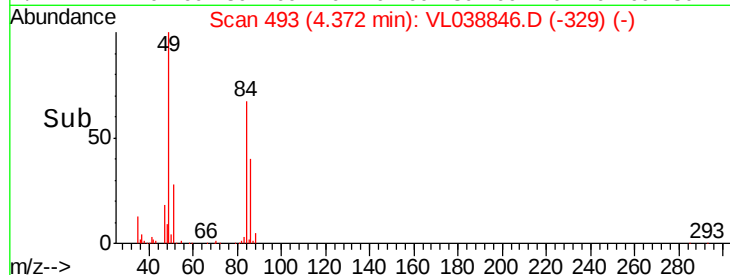
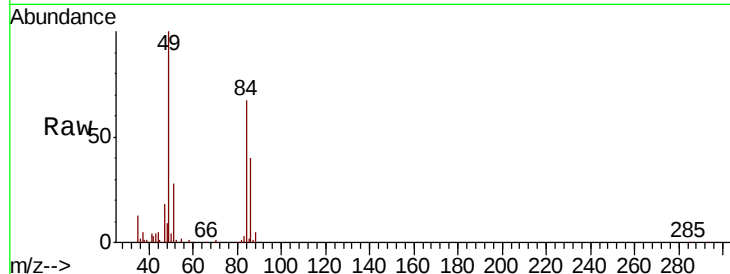
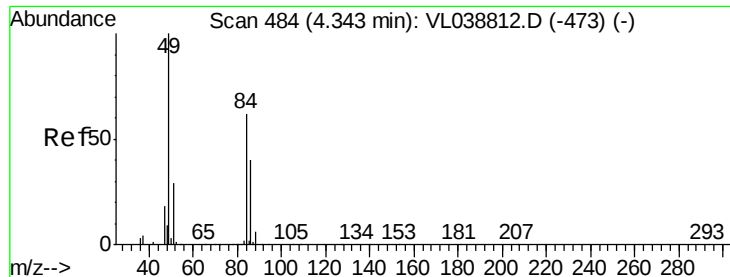
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#19
Isopropyl Alcohol
Concen: 1.934 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.03 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion: 45 Resp: 125887
Ion Ratio Lower Upper
45 100
58 601.7 0.0 0.0#



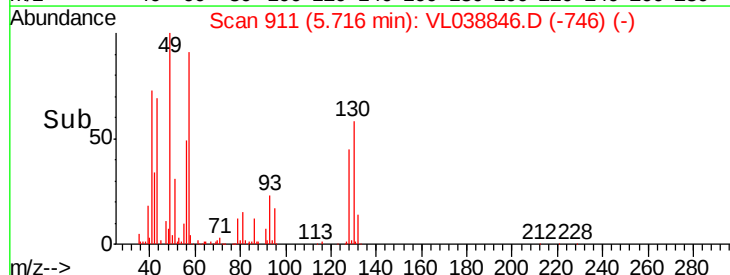
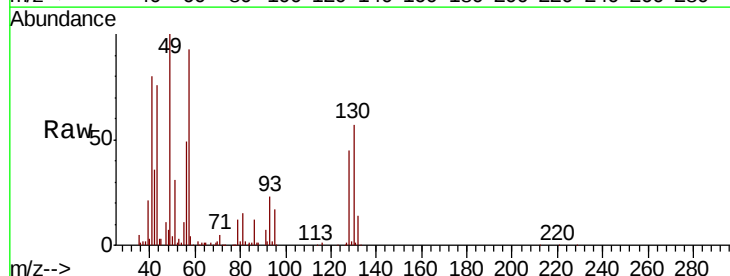
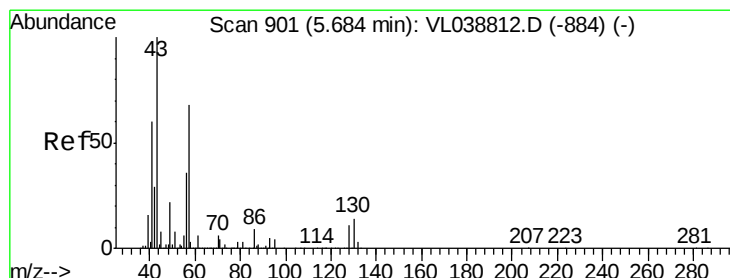
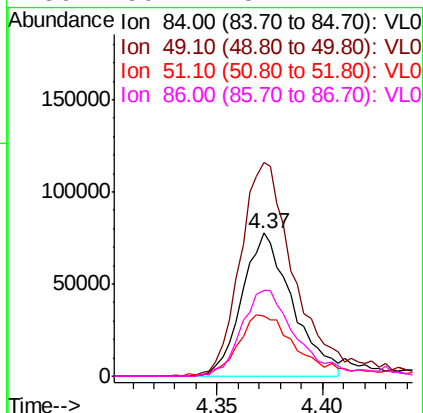


#20
Methvlene Chloride
Concen: 2.784 ppbv
RT: 4.37
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
84 100
49 148.
51 40.
86 59.7 51.4 77.2

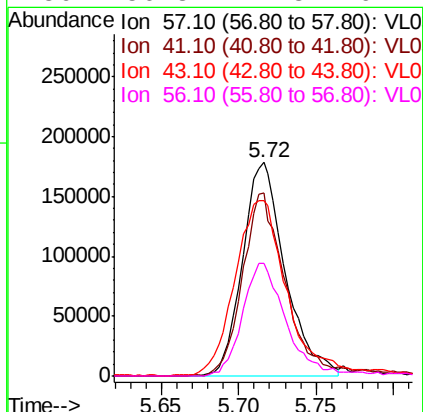
Manual Integrations
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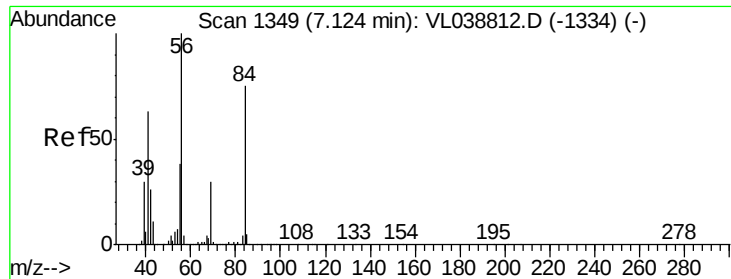
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#26
Hexane
Concen: 2.327 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.03 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion: 57 Resp: 342300
Ion Ratio Lower Upper
57 100
41 89.1 72.0 108.0
43 100.5 186.6 280.0#
56 56.3 42.8 64.2



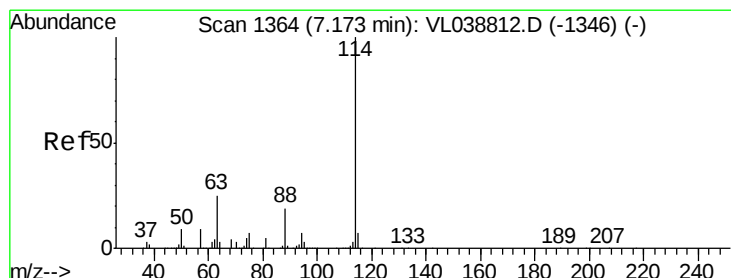
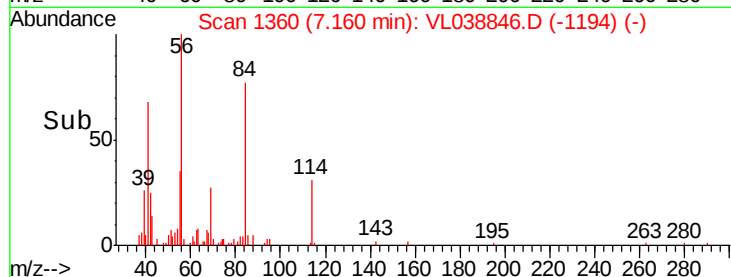
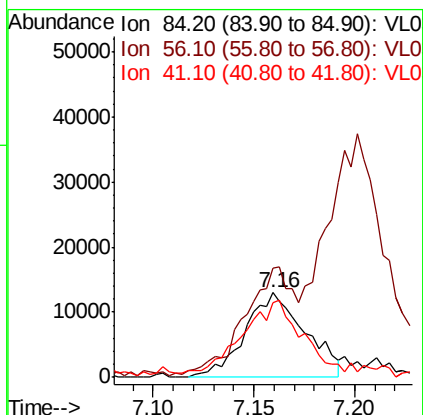
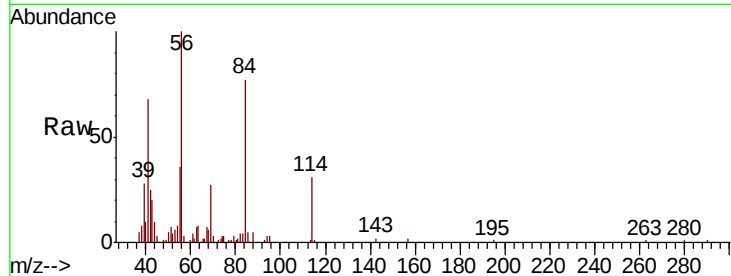


#30
Cvclohexane
Concen: 0.208 ppbv
RT: 7.16 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
84 100
56 0.
41 98.

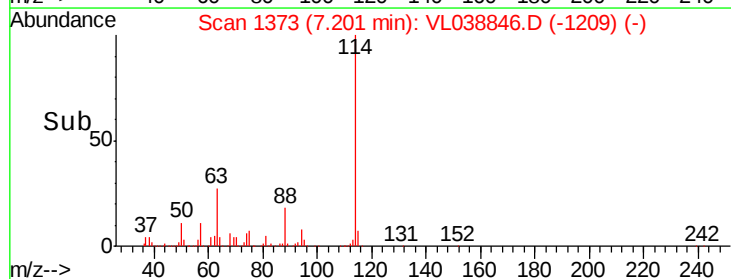
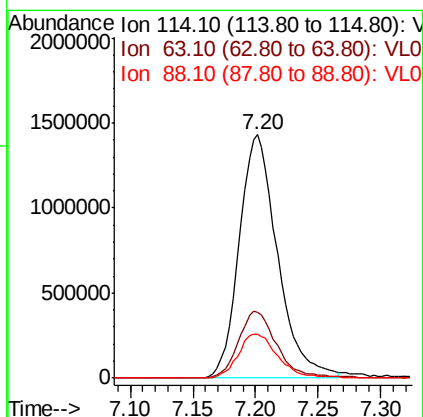
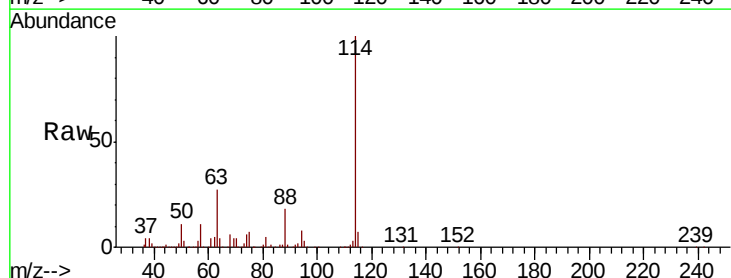
Manual Integrations
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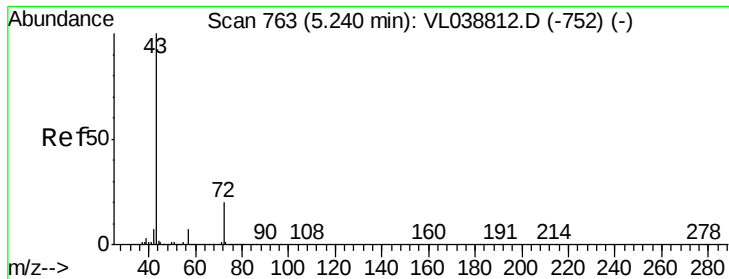
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1373
Delta R.T.: 0.03 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion:114 Resp: 3049073
Ion Ratio Lower Upper
114 100
63 27.8 19.8 29.8
88 18.9 14.2 21.4



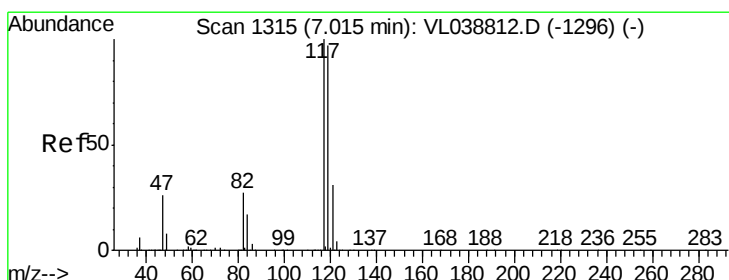
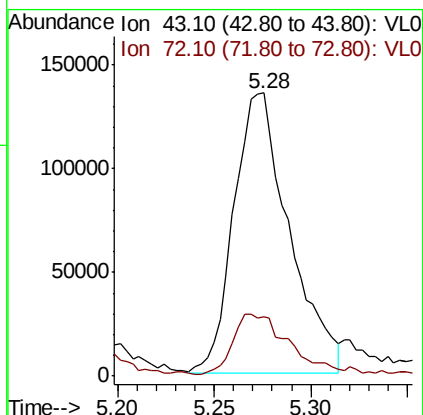
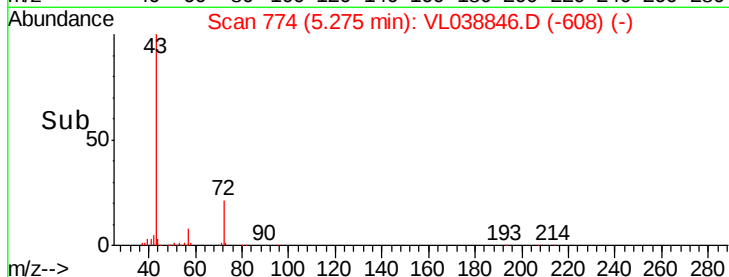
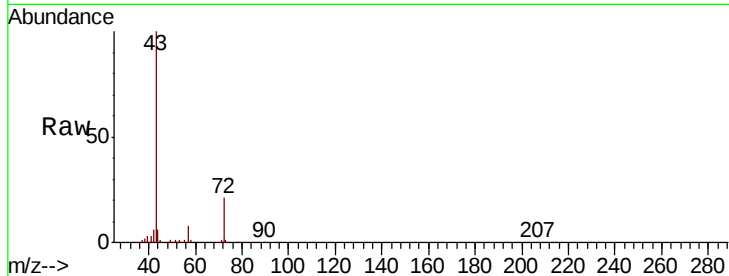


#34
2-Butanone
Concen: 2.249 ppbv
RT: 5.28
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
43 100
72 25.

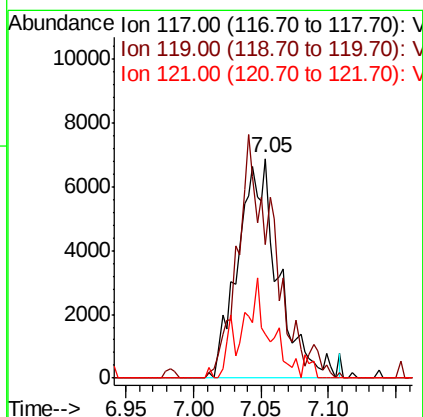
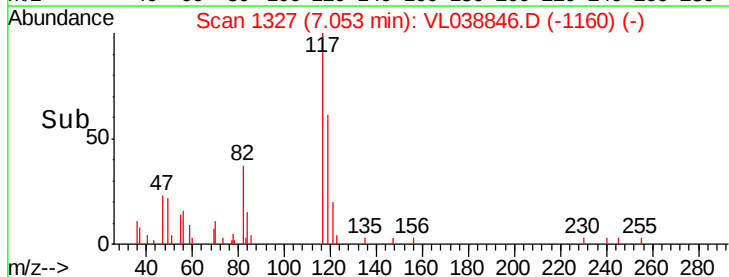
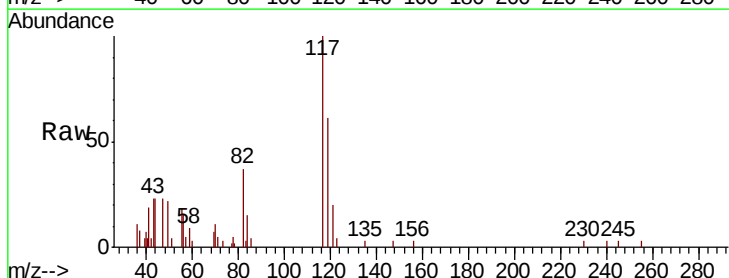
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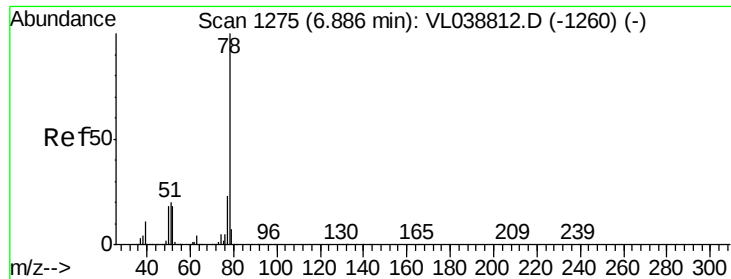
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#35
Carbon Tetrachloride
Concen: 0.078 ppbv m
RT: 7.05 min Scan# 1327
Delta R.T. 0.04 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion:117 Resp: 14287
Ion Ratio Lower Upper
117 100
119 60.7 77.7 116.5#
121 20.1 24.5 36.7#



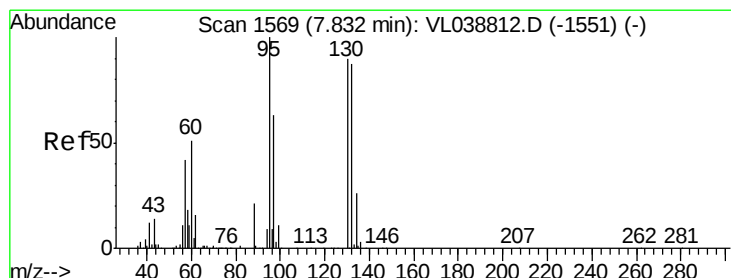
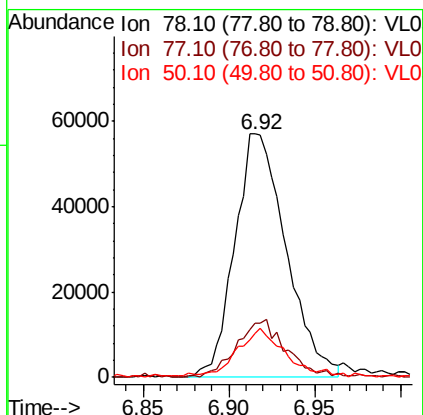
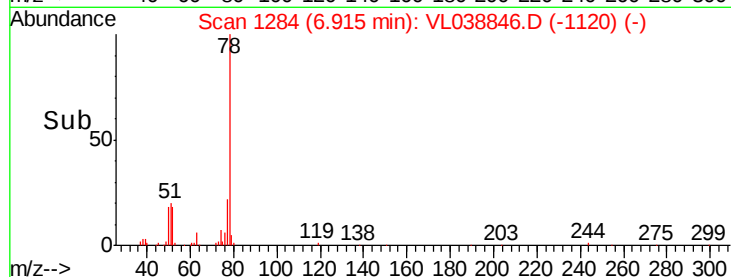
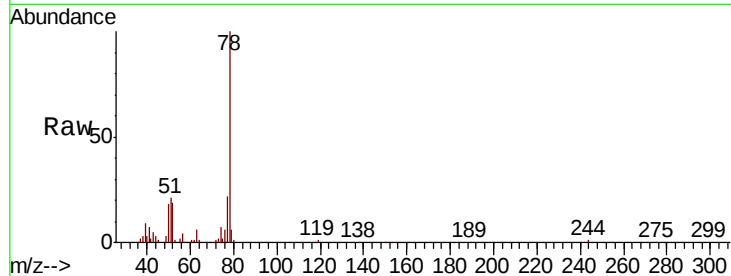


#36
Benzene
Concen: 0.428 ppbv
RT: 6.92
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
78 100
77 21.
50 16.

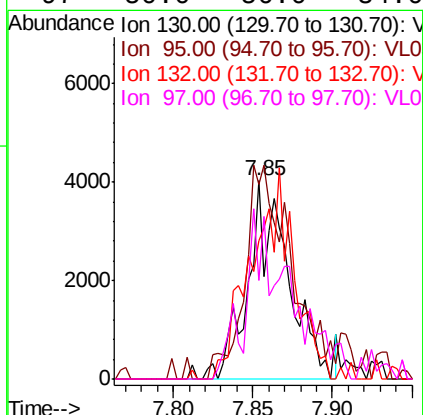
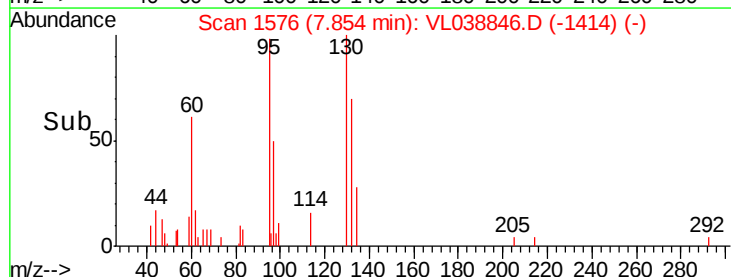
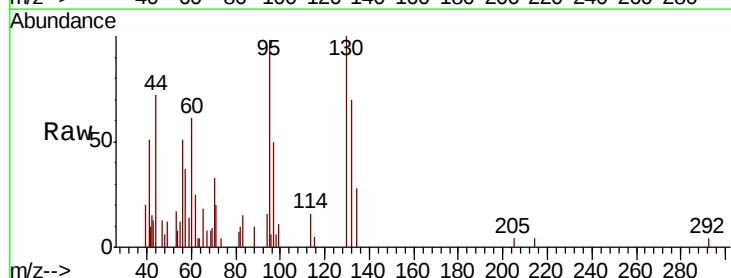
Manual Integrations
APPROVED

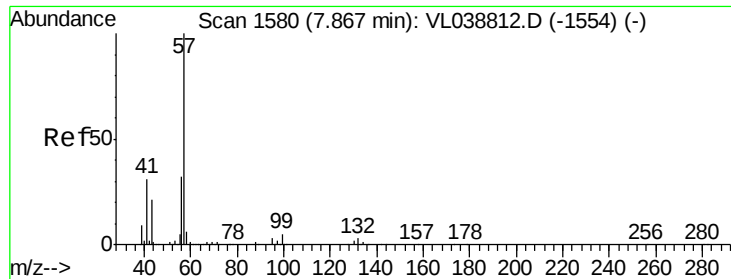
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#38
Trichloroethene
Concen: 0.063 ppbv m
RT: 7.85 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion:130 Resp: 7222
Ion Ratio Lower Upper
130 100
95 98.0 89.4 134.0
132 70.1 77.7 116.5#
97 50.0 56.0 84.0#



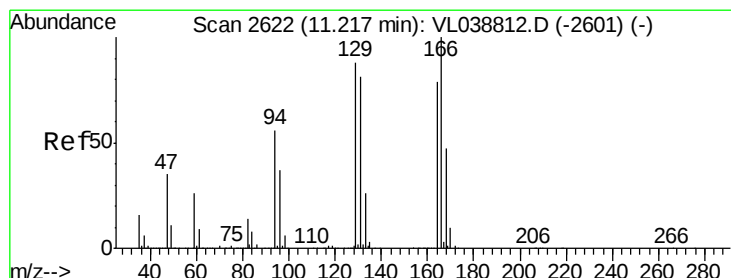
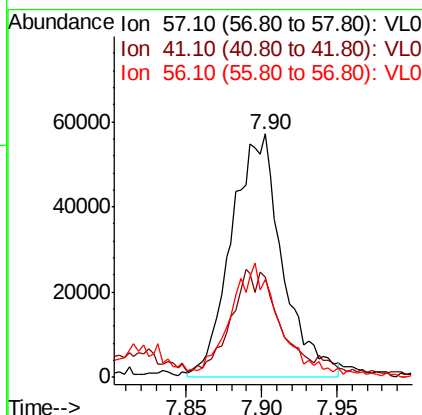
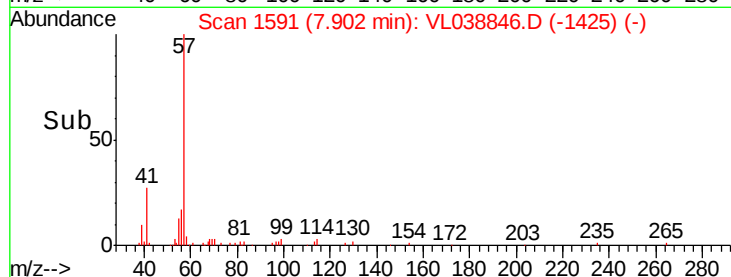
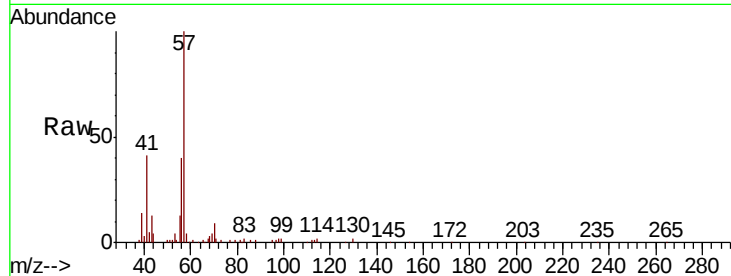


#44
 2,2,4-Trimethylpentane
 Concen: 0.286 ppbv m
 RT: 7.90 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 18:14

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

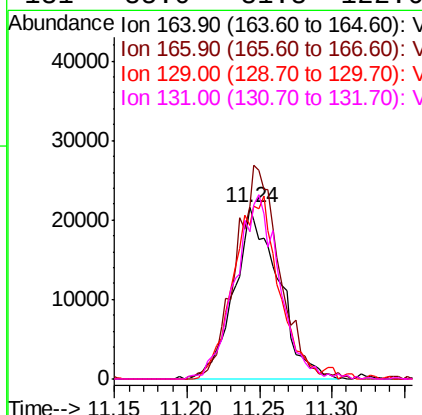
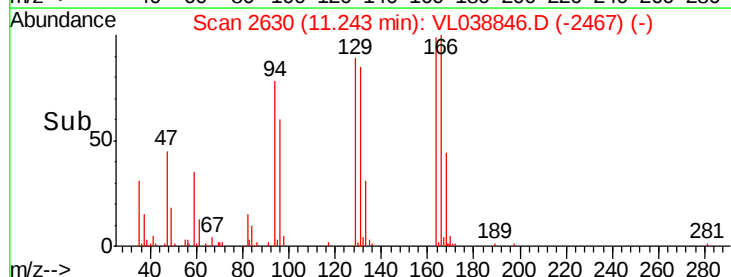
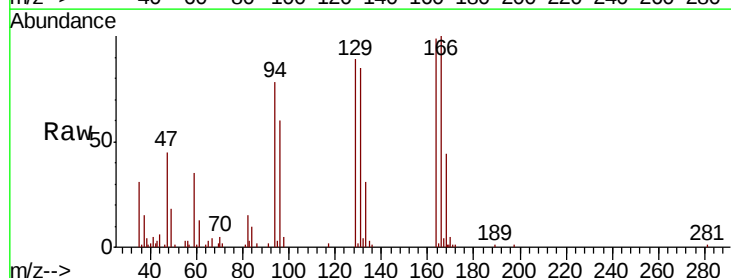
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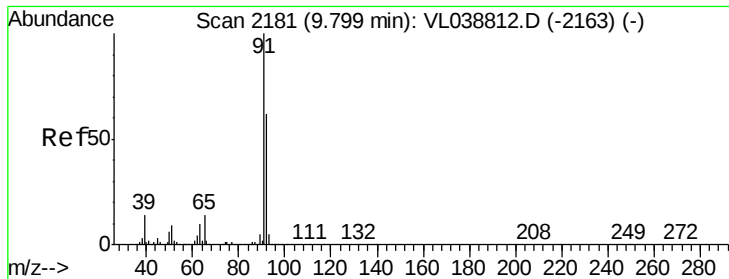
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#52
 Tetrachloroethene
 Concen: 0.472 ppbv
 RT: 11.24 min Scan# 2630
 Delta R.T. 0.03 min
 Lab File: VL038846.D
 Acq: 7 Apr 2022 18:14

Tgt Ion:164 Resp: 45737
 Ion Ratio Lower Upper
 164 100
 166 99.7 101.0 151.6#
 129 89.8 88.7 133.1
 131 85.0 81.8 122.6





#53

Toluene

Concen: 4.149 ppbv

RT: 9.83

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 7 Apr 2022 18:14

Tot Ion:

Ion Ratio

91 100

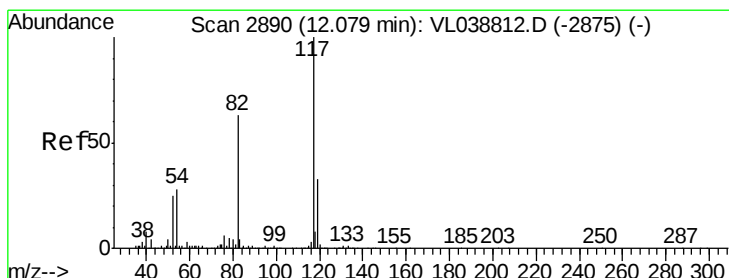
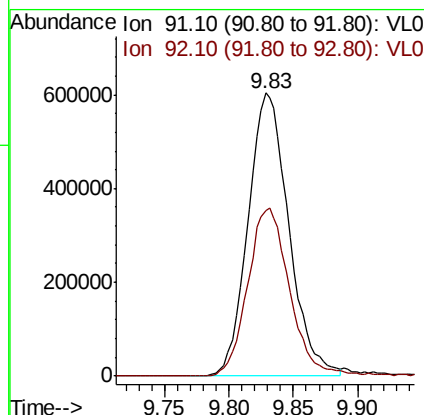
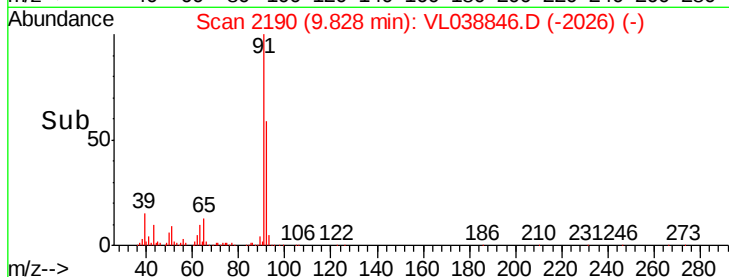
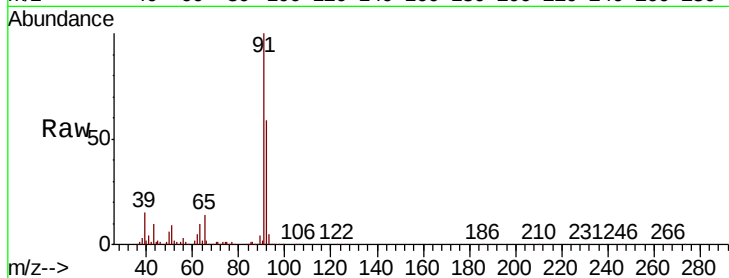
92 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.03 min

Lab File: VL038846.D

Acq: 7 Apr 2022 18:14

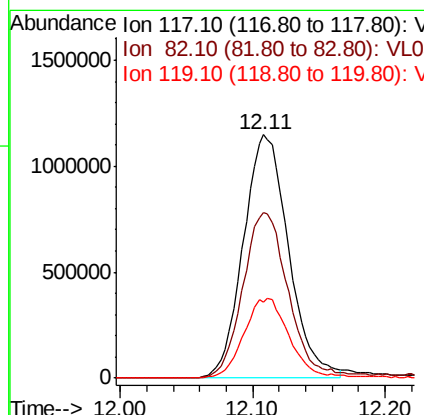
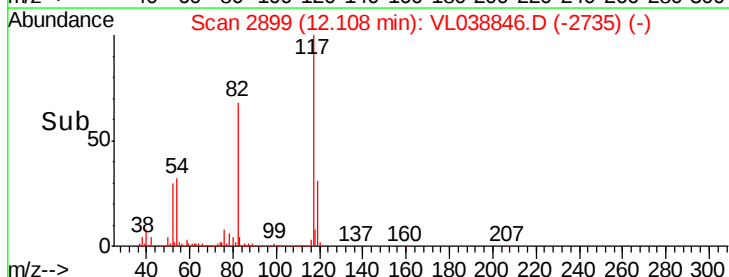
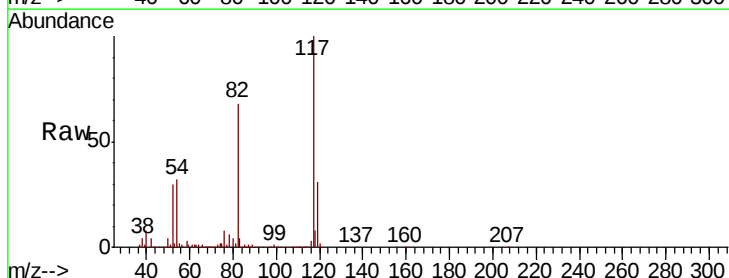
Tgt Ion:117 Resp: 2723512

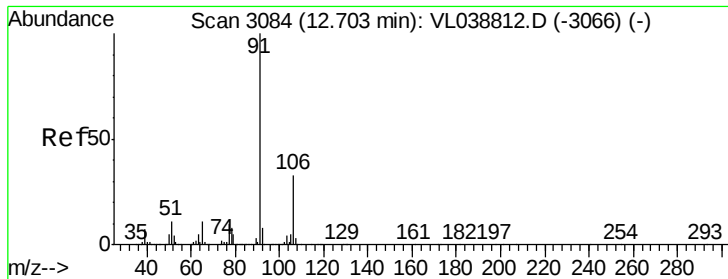
Ion Ratio Lower Upper

117 100

82 71.4 53.0 79.6

119 33.8 24.9 37.3



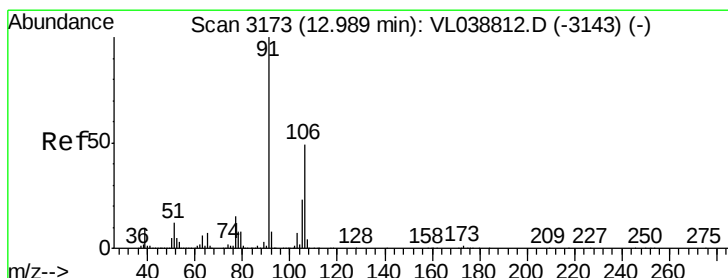
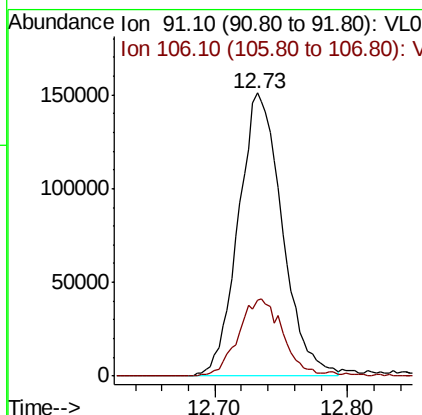
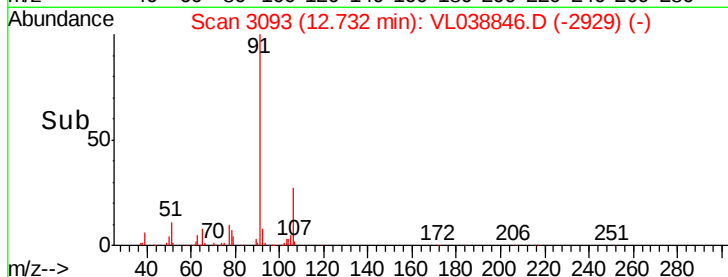
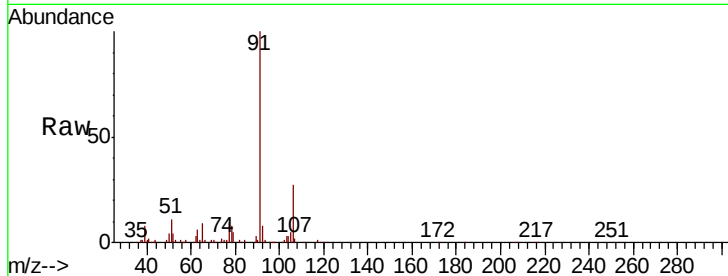


#58
Ethyl Benzene
Concen: 0.846 ppbv
RT: 12.73 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
91 100
106 27.

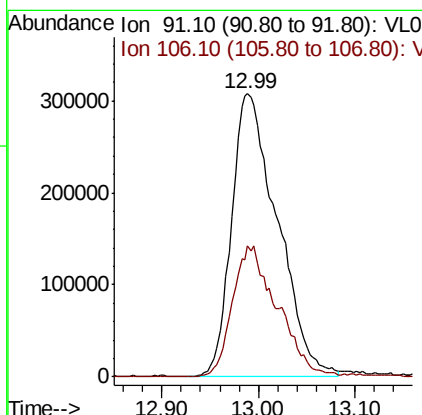
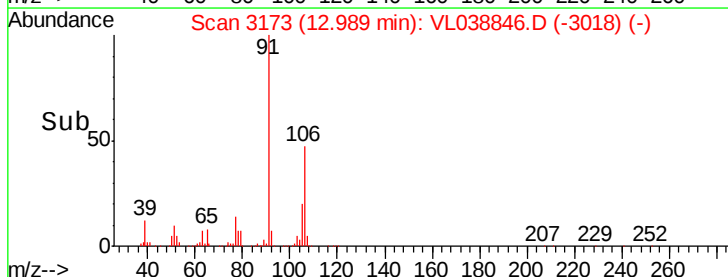
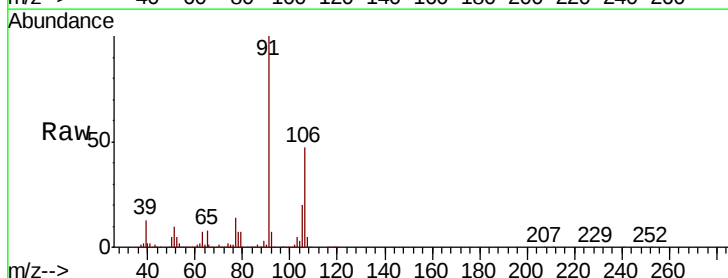
Manual Integrations
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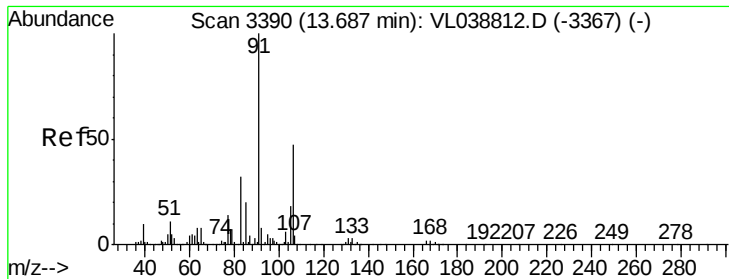
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#59
m/p-Xylene
Concen: 2.943 ppbv
RT: 12.99 min Scan# 3173
Delta R.T. -0.00 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion: 91 Resp: 1006301
Ion Ratio Lower Upper
91 100
106 46.5 37.1 55.7



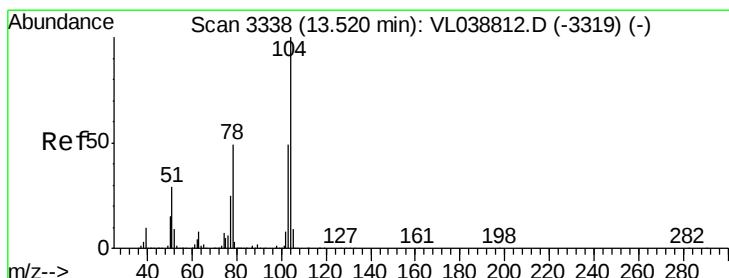
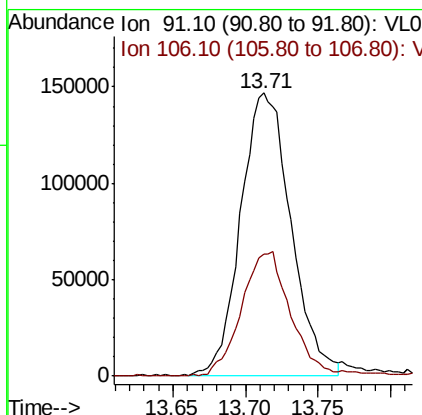
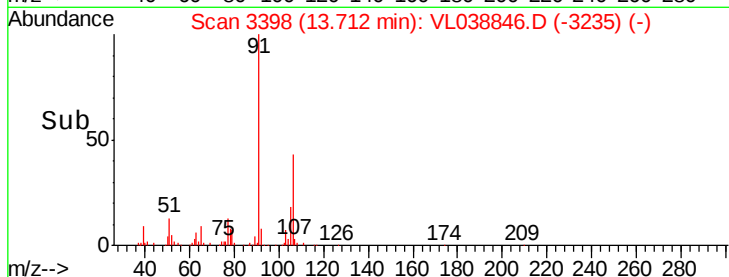
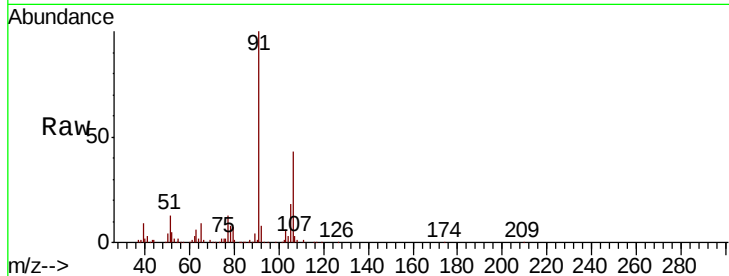


#60
o-Xylene
Concen: 1.101 ppbv
RT: 13.71 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 18:14

Tot Ion:
Ion Ratio
91 100
106 44.

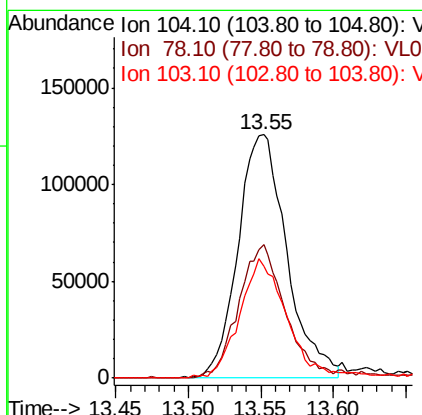
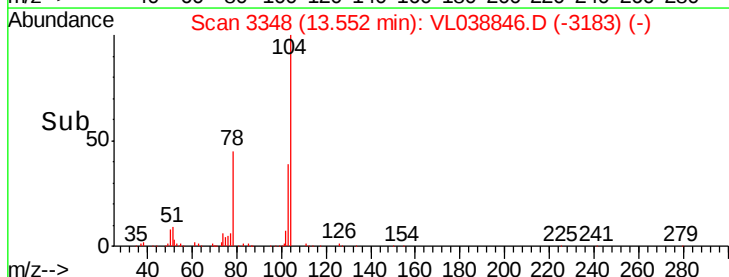
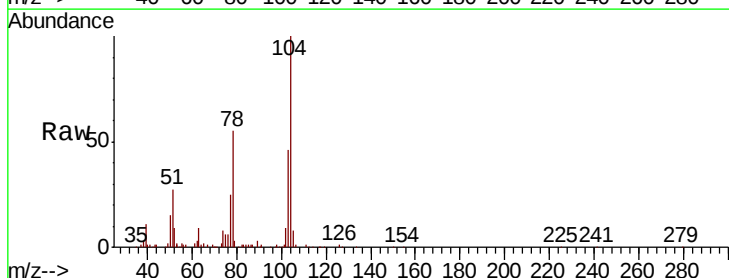
Manual Integrations
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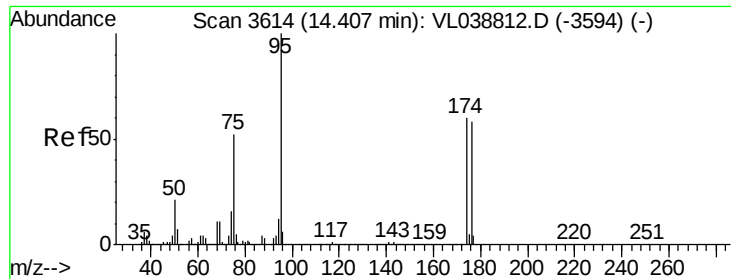
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#61
Styrene
Concen: 1.494 ppbv
RT: 13.55 min Scan# 3348
Delta R.T. 0.03 min
Lab File: VL038846.D
Acq: 7 Apr 2022 18:14

Tgt Ion:104 Resp: 291284
Ion Ratio Lower Upper
104 100
78 53.5 40.5 60.7
103 49.5 39.0 58.4



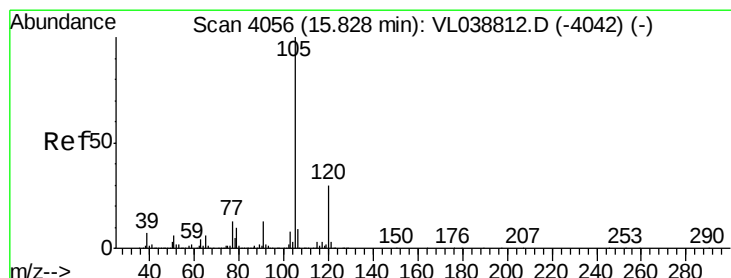
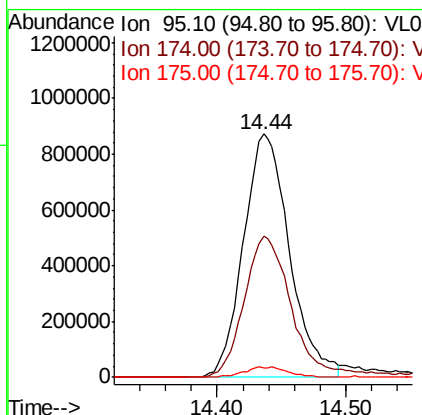
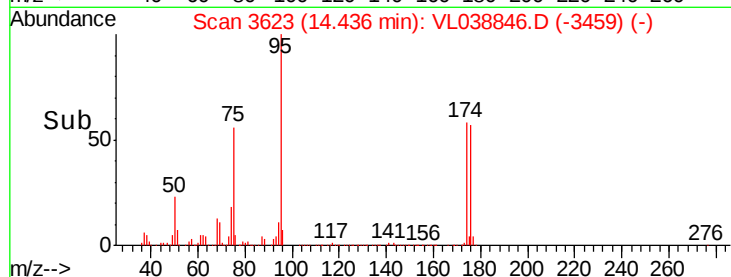
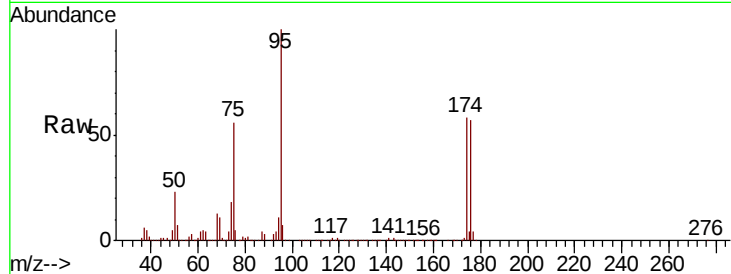


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.494 ppbv
 RT: 14.44 min
 Delta R.T.: 0.03 min
 Lab File: VL038846.D
 Acq: 7 Apr 2022 18:14

Tot Ion:
 Ion Ratio
 95 100
 174 62.
 175 4.

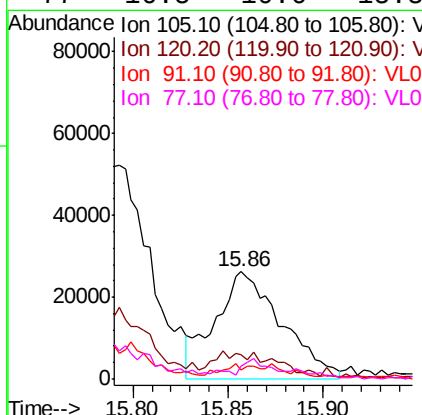
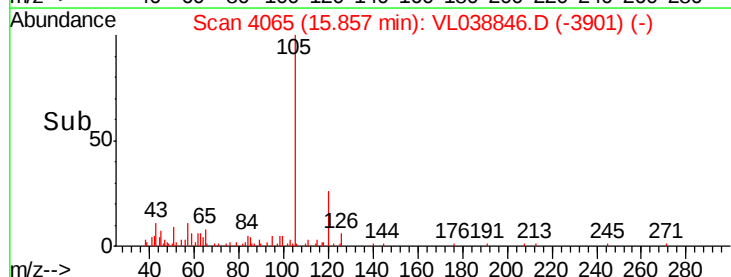
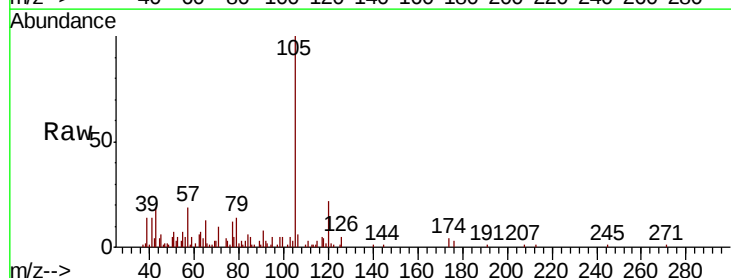
Manual Integrations
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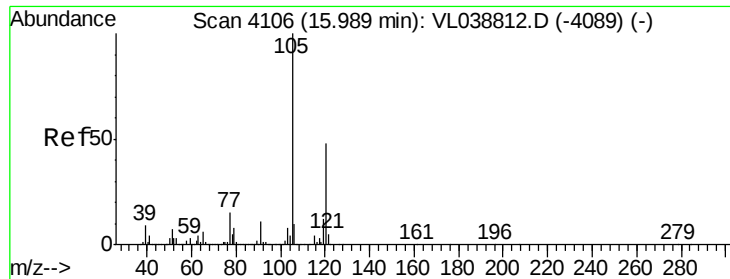
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#72
 4-Ethyltoluene
 Concen: 0.168 ppbv m
 RT: 15.86 min Scan# 4065
 Delta R.T.: 0.03 min
 Lab File: VL038846.D
 Acq: 7 Apr 2022 18:14

Tgt Ion:105 Resp: 64018
 Ion Ratio Lower Upper
 105 100
 120 29.5 24.3 36.5
 91 10.7 9.4 14.2
 77 16.5 10.6 15.8#



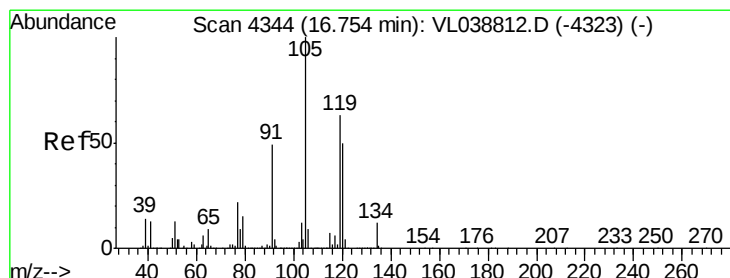
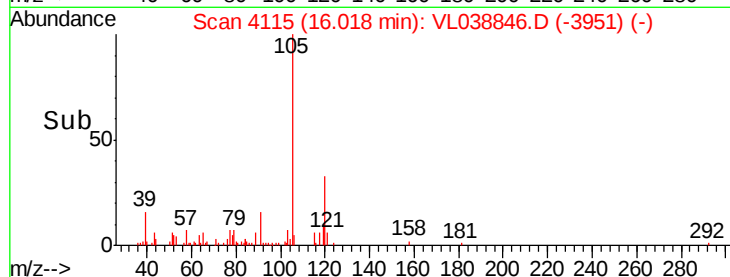
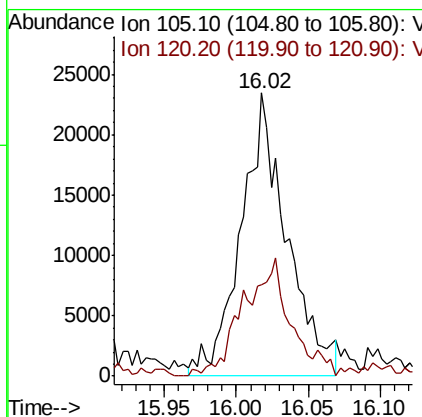
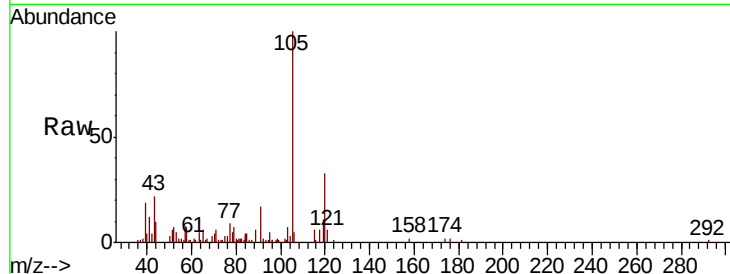


#73
 1,3,5-Trimethylbenzene
 Concen: 0.151 ppbv m
 RT: 16.02
 Instrument: MSVOA_1
 Delta R.T.
 Lab File: ClientSampleId :
 1160-A1-2
 Acq: 7 Apr 2022 18:14

Tot Ion:1
 Ion Rati
 105 100
 120 32.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.461 ppbv m
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.03 min
 Lab File: VL038846.D
 Acq: 7 Apr 2022 18:14

Tgt Ion:105 Resp: 167140
 Ion Ratio Lower Upper
 105 100
 120 36.2 39.8 59.8#
 91 9.2 39.4 59.0#
 77 15.5 17.3 25.9#

