

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037918.D
 Acq On : 27 Oct 2021 16:22
 Operator : SY/AP
 Sample : M4377-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VMP-5-MANIFOLDDUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021
 Supervised By :Mahesh Dadoda 10/29/2021

Quant Time: Oct 28 12:56:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1285361	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3691341	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3201646	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2152785	9.62	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	32979m	0.161	ppbv
9) Propene	3.04	41	3194910m	35.157	ppbv
10) Heptane	8.14	43	45584	0.221	ppbv 92
11) Trichlorofluoromethane	3.96	101	53860	0.294	ppbv 84
13) Ethanol	3.62	45	5786171	778.585	ppbv 81
15) Acetone	3.86	43	1072604m	9.296	ppbv
17) tert-Butyl alcohol	4.31	59	61979m	0.522	ppbv
19) Isopropyl Alcohol	3.99	45	2553857	35.576	ppbv # 97
20) Methylene Chloride	4.36	84	319194	5.475	ppbv 98
26) Hexane	5.71	57	305489	1.916	ppbv # 47
29) Chloroform	5.77	83	646824	2.838	ppbv 99
30) Cyclohexane	7.14	84	16723m	0.124	ppbv
34) 2-Butanone	5.26	43	217770	1.461	ppbv 94
35) Carbon Tetrachloride	7.03	117	14385m	0.069	ppbv
36) Benzene	6.91	78	55074m	0.175	ppbv
41) Tetrahydrofuran	6.08	42	116214m	1.593	ppbv
44) 2,2,4-Trimethylpentane	7.89	57	125232m	0.236	ppbv
52) Tetrachloroethene	11.24	164	9831m	0.080	ppbv
53) Toluene	9.83	91	331532	0.949	ppbv 98
58) Ethyl Benzene	12.73	91	73118m	0.170	ppbv
59) m/p-Xylene	12.98	91	229499m	0.622	ppbv
60) o-Xylene	13.71	91	86772m	0.245	ppbv
61) Styrene	13.55	104	21716m	0.127	ppbv

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

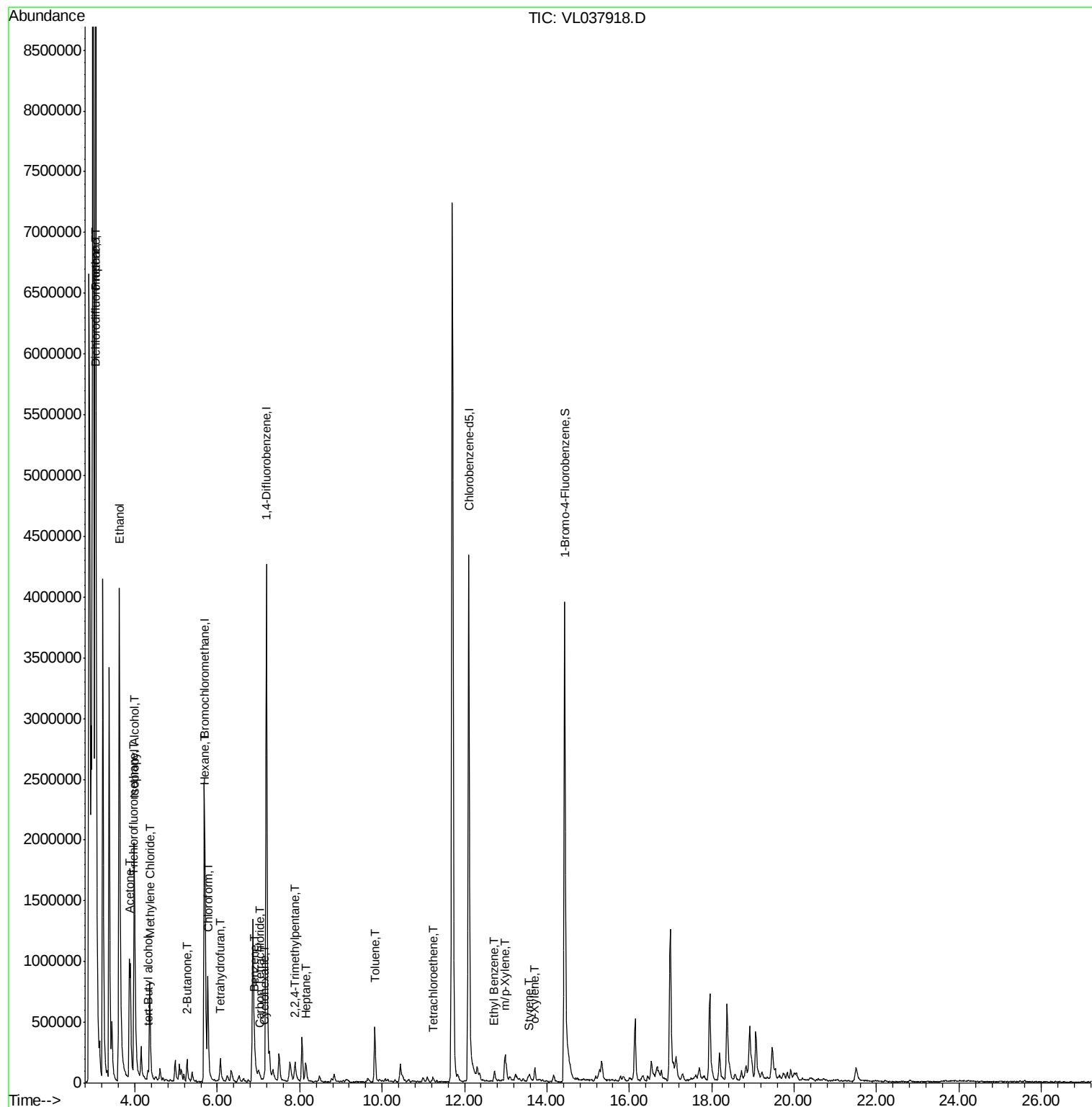
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Data File : VL037918.D
Acq On : 27 Oct 2021 16:22
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Misc : 400mL/MSVOA L
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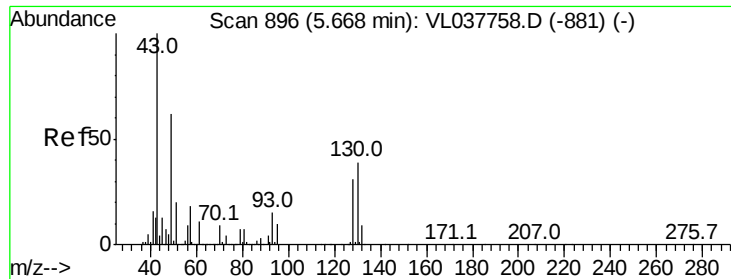
Instrument :
MSVOA_L
ClientSampleId :
VMP-5-MANIFOLDUP

Quant Time: Oct 28 12:56:08 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL100421
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

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Supervised By :Mahesh Dadoda 10/29/2021



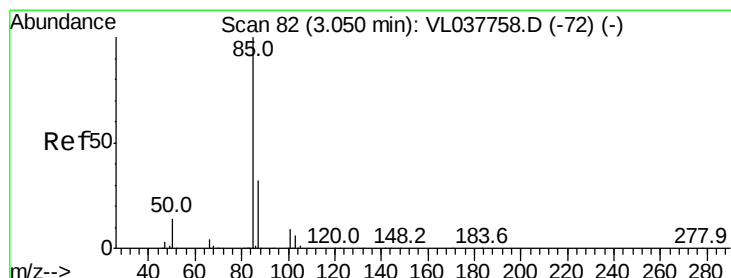
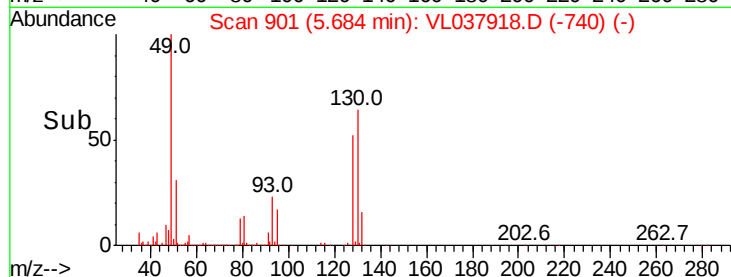
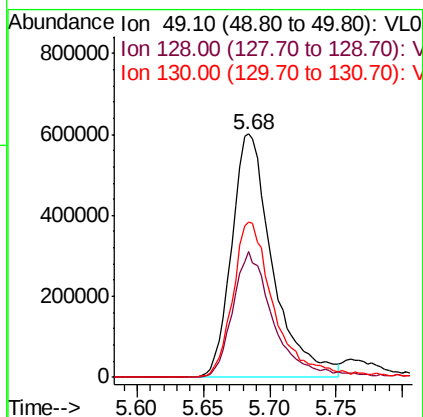
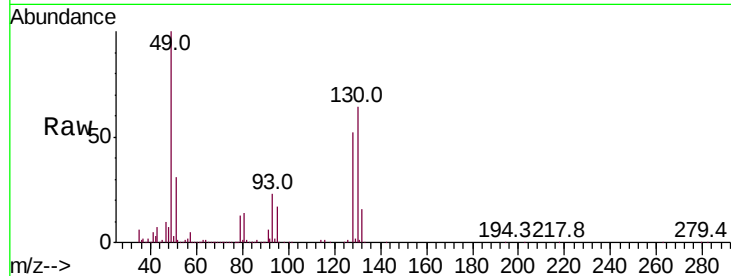


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VMP-5-MANIFOLD
 Acq: 27 Oct 2021 10:22

Tot Ion:
 Ion Ratio
 49 100
 128 52.
 130 66.

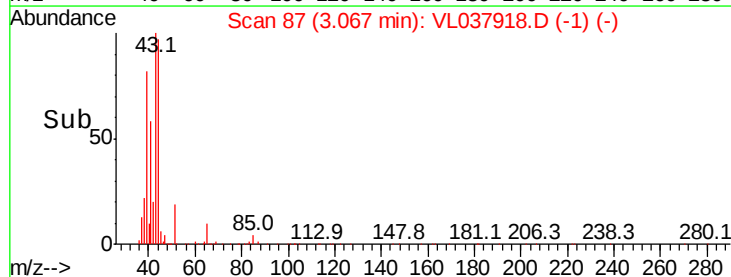
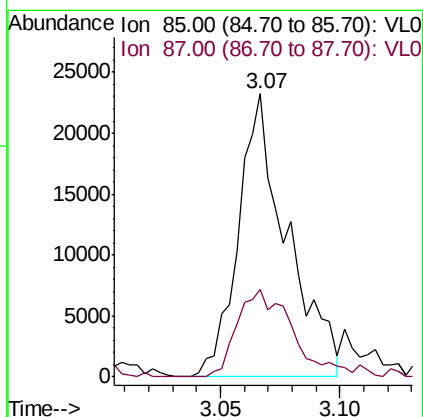
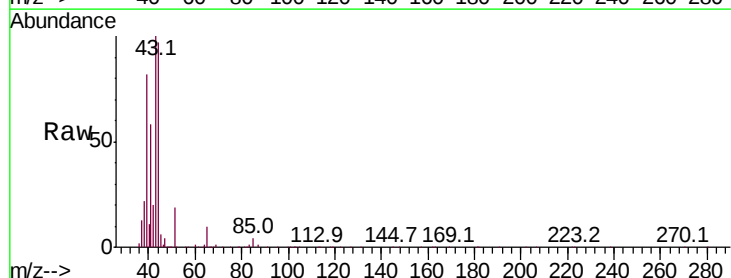
Manual Integrations
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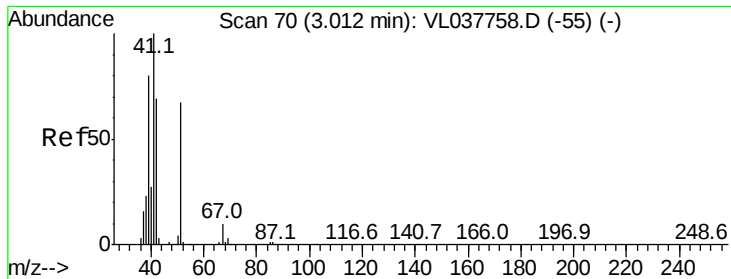
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 Supervised By :Mahesh Dadoda 10/29/2021



#2
 Dichlorodifluoromethane
 Concen: 0.161 ppbv m
 RT: 3.07 min Scan# 87
 Delta R.T. 0.02 min
 Lab File: VL037918.D
 Acq: 27 Oct 2021 16:22

Tgt Ion: 85 Resp: 32979
 Ion Ratio Lower Upper
 85 100
 87 31.0 25.7 38.5





#9

Propene

Concen: 35.157 ppbv m

RT: 3.04 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Oct 2021 10:22 VMP-5-MANIFOLD.DUP

Tot Ion:

Ion Ratio

41 100

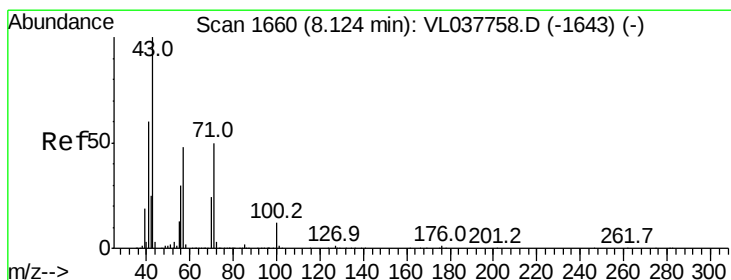
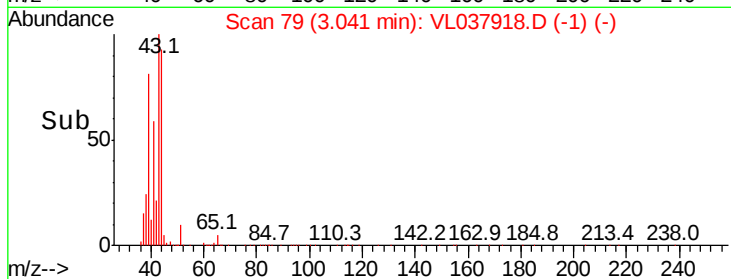
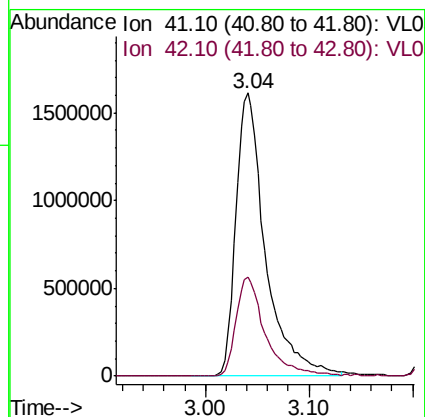
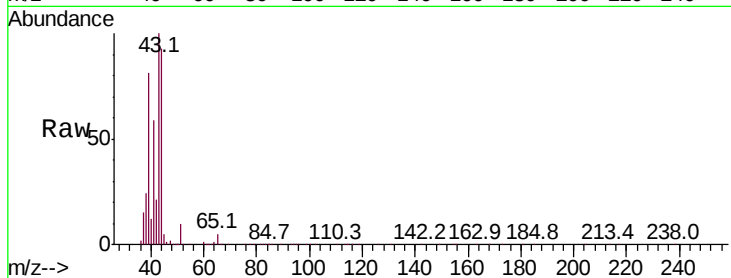
42 33.

Manual Integrations

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#10

Heptane

Concen: 0.221 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.02 min

Lab File: VL037918.D

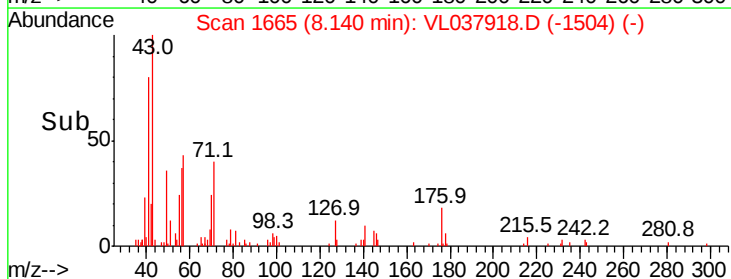
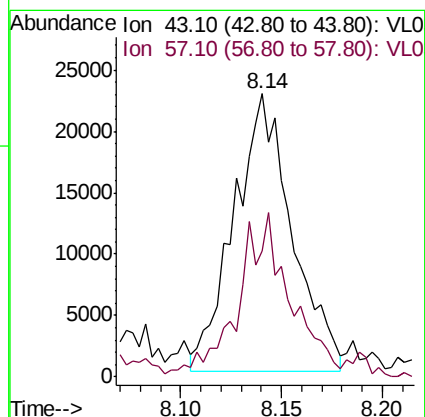
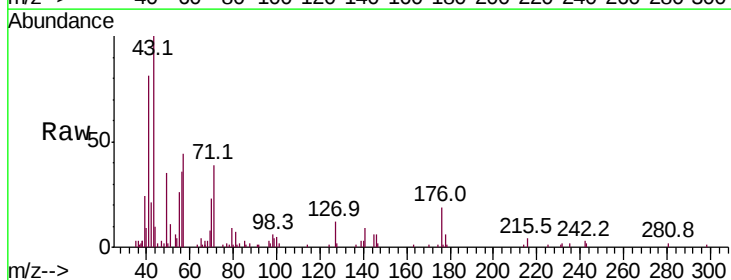
Acq: 27 Oct 2021 16:22

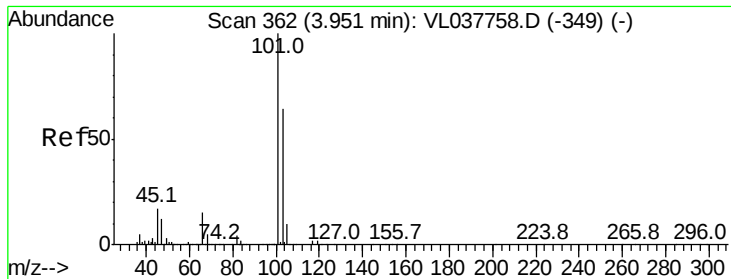
Tgt Ion: 43 Resp: 45584

Ion Ratio Lower Upper

43 100

57 55.4 40.0 60.0



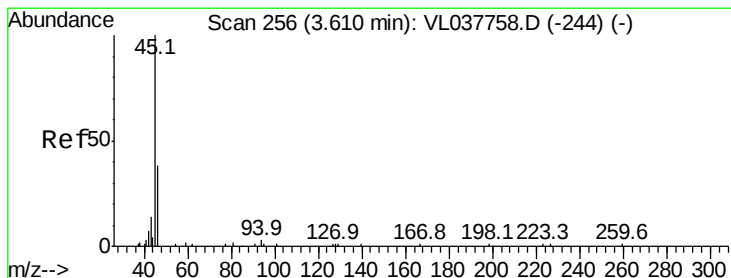
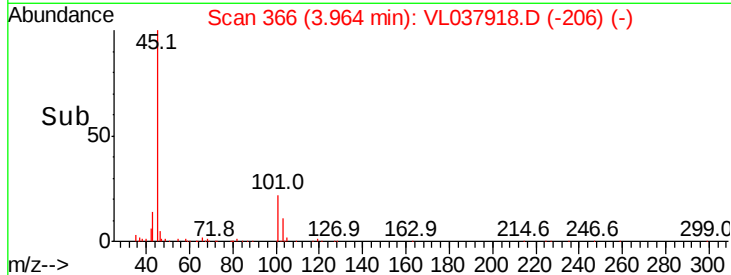
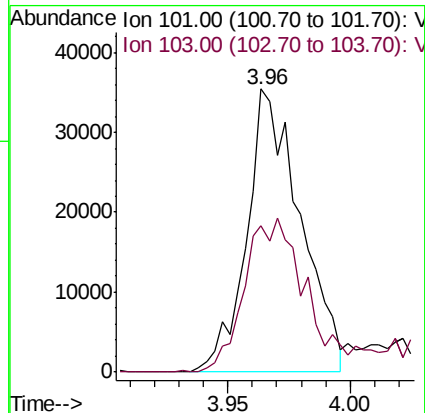
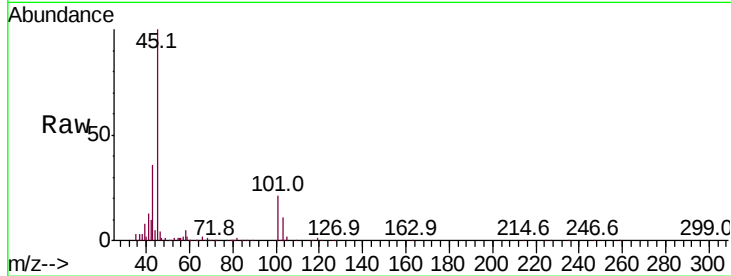


#11
 Trichlorofluoromethane
 Concen: 0.294 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VMP-5-MANIFOLD
 Acq: 27 Oct 2021 10:22

Tot Ion:1
 Ion Rati
 101 100
 103 51.

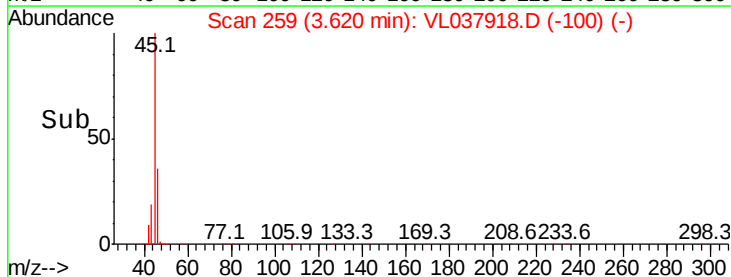
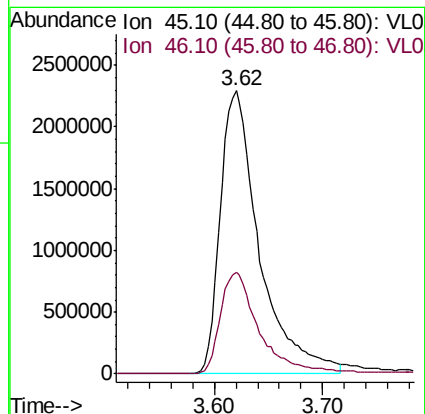
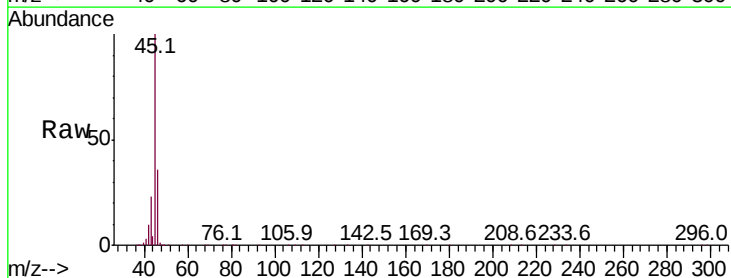
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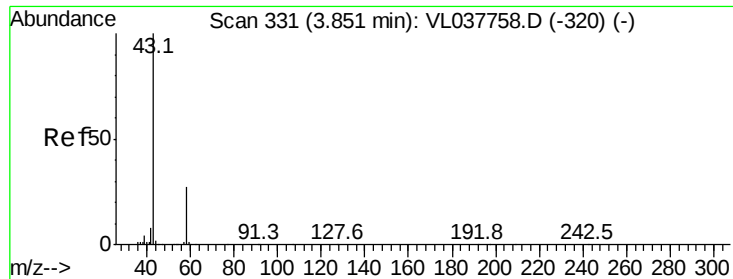
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 Supervised By :Mahesh Dadoda 10/29/2021



#13
 Ethanol
 Concen: 778.585 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL037918.D
 Acq: 27 Oct 2021 16:22

Tgt Ion: 45 Resp: 5786171
 Ion Ratio Lower Upper
 45 100
 46 37.3 20.2 81.0





#15

Acetone

Concen: 9.296 ppbv m

RT: 3.86

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 10:22

Tot Ion:

Ion Ratio

43 100

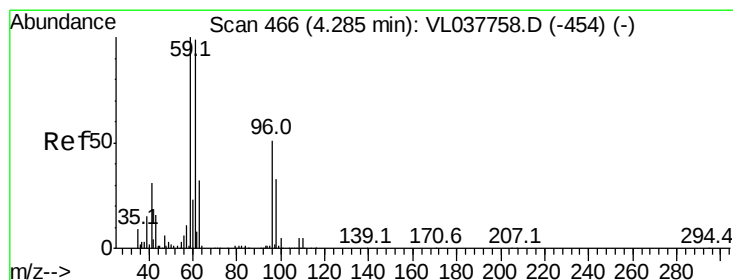
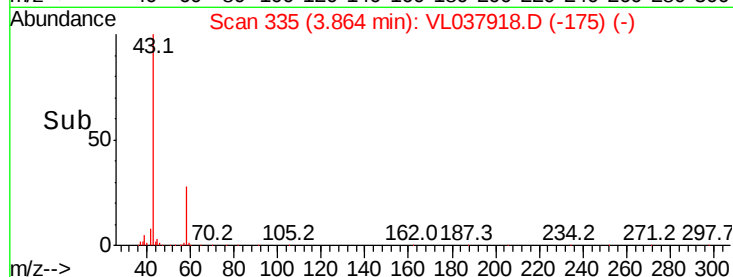
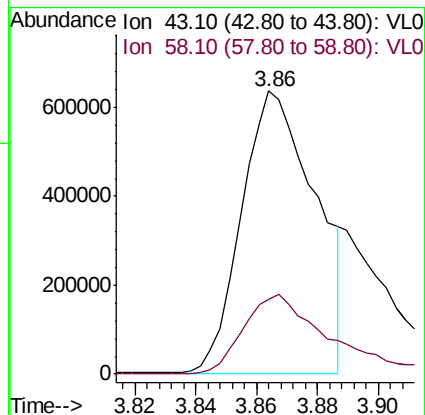
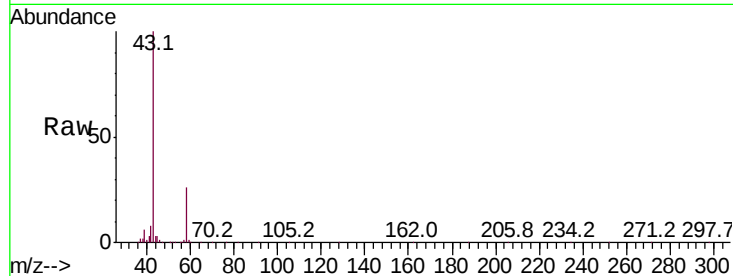
58 34.

Manual Integrations

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#17

tert-Butyl alcohol

Concen: 0.522 ppbv m

RT: 4.31 min Scan# 475

Delta R.T. 0.03 min

Lab File: VL037918.D

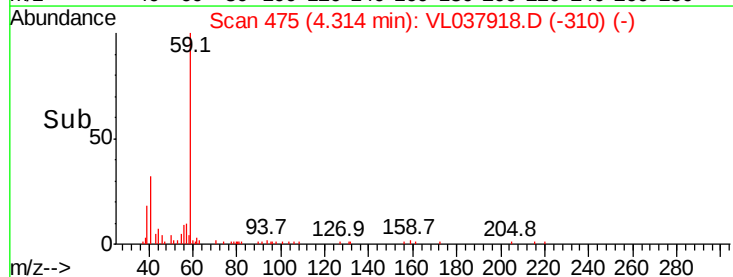
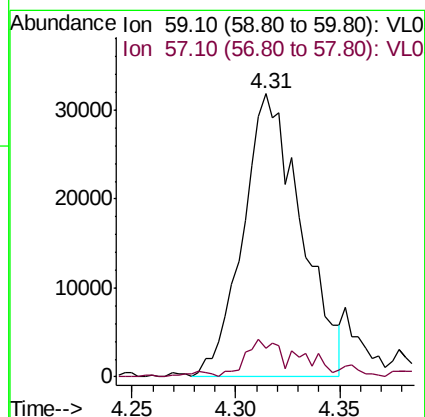
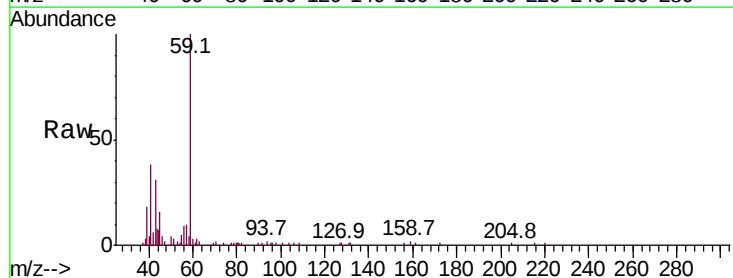
Acq: 27 Oct 2021 16:22

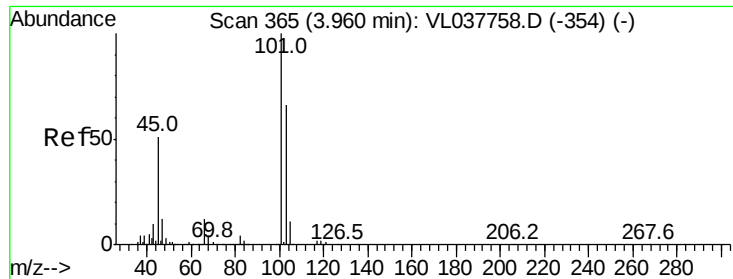
Tgt Ion: 59 Resp: 61979

Ion Ratio Lower Upper

59 100

57 11.1 8.6 13.0





#19

Isopropyl Alcohol

Concen: 35.576 ppbv

RT: 3.99

Delta R.T. MSVOA.L

Lab File:

Acq: 27 Oct 2021 16:22

ClientSampleId :
VMP-5-MANIFOLD.DUP

Tot Ion:

Ion Ratio

45 100

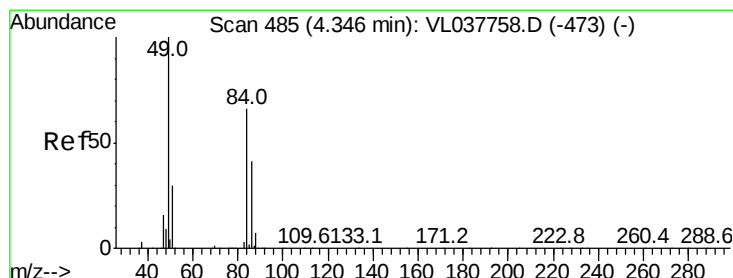
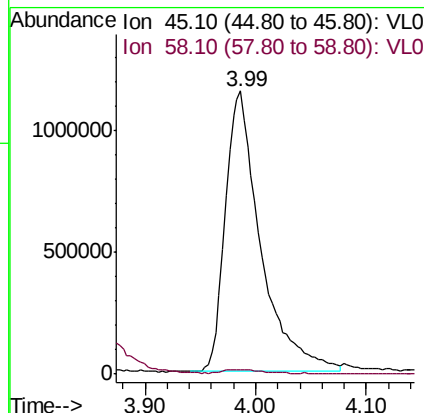
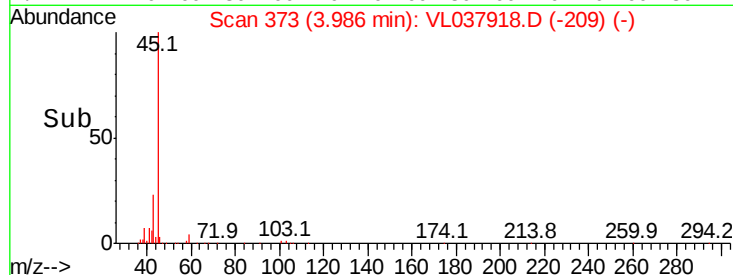
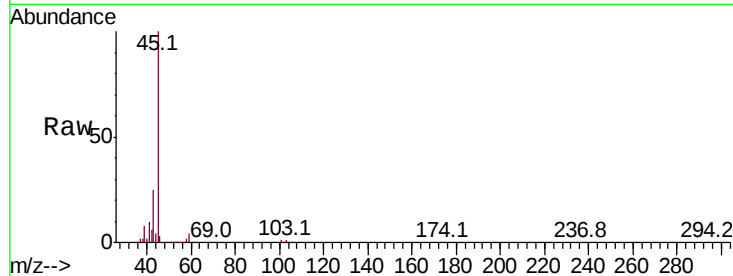
58 2.

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Supervised By :Mahesh Dadoda 10/29/2021



#20

Methylene Chloride

Concen: 5.475 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL037918.D

Acq: 27 Oct 2021 16:22

Tgt Ion: 84 Resp: 319194

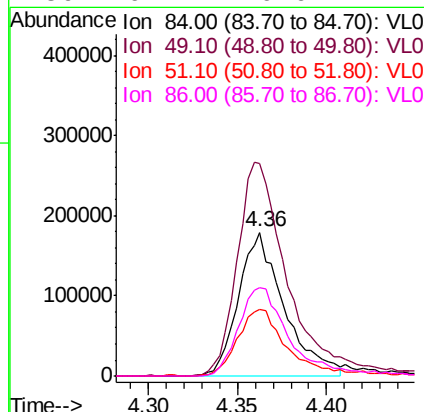
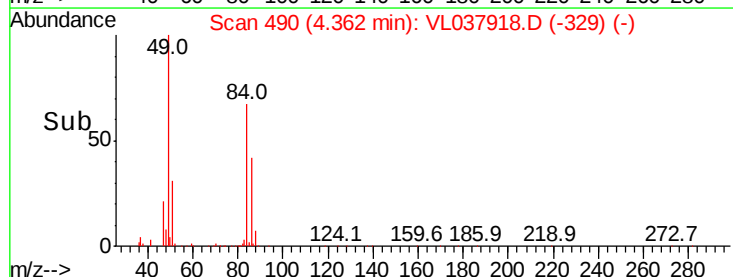
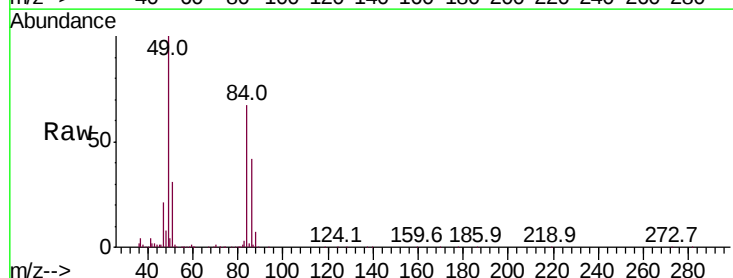
Ion Ratio Lower Upper

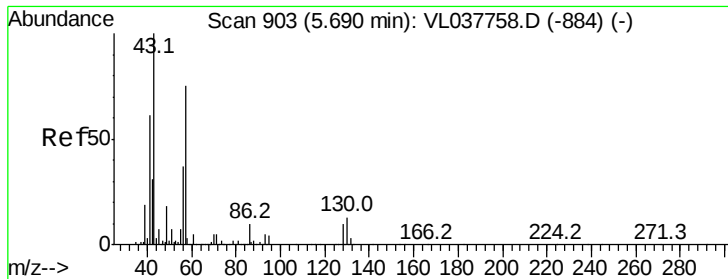
84 100

49 148.2 120.7 181.1

51 46.1 36.2 54.4

86 61.7 49.6 74.4





#26

Hexane

Concen: 1.916 ppbv

RT: 5.71

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Oct 2021 16:22

ClientSampleId :

VMP-5-MANIFOLD

Manual Integrations

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Supervised By :Mahesh Dadoda 10/29/2021

Tot Ion:

Ion Ratio

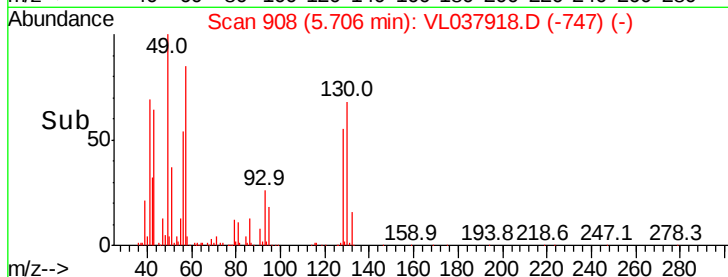
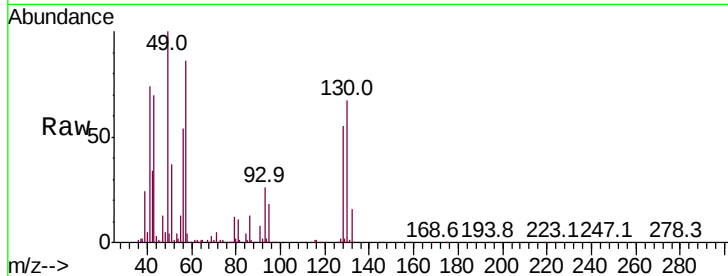
57 100

41 99.

43 88.

56 61.5

42.0 63.0

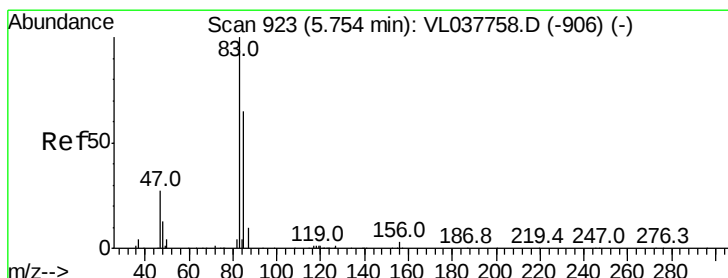
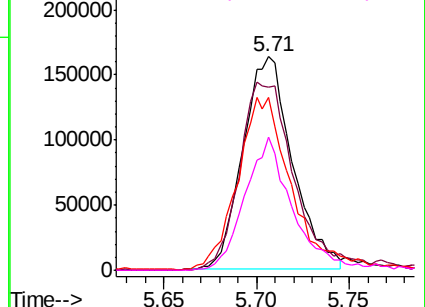


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 2.838 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VL037918.D

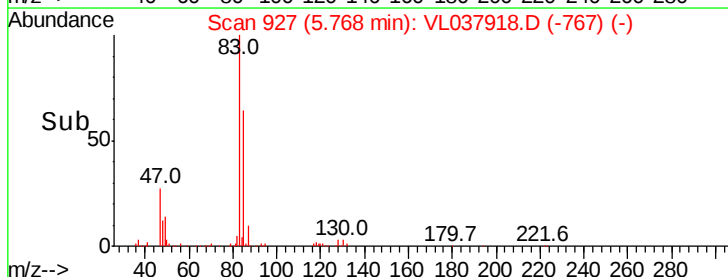
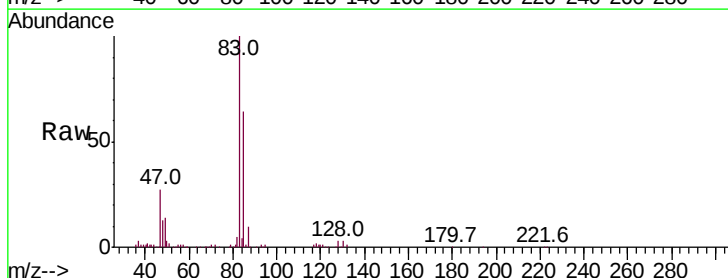
Acq: 27 Oct 2021 16:22

Tgt Ion: 83 Resp: 646824

Ion Ratio Lower Upper

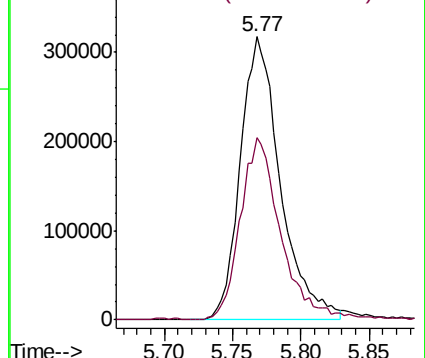
83 100

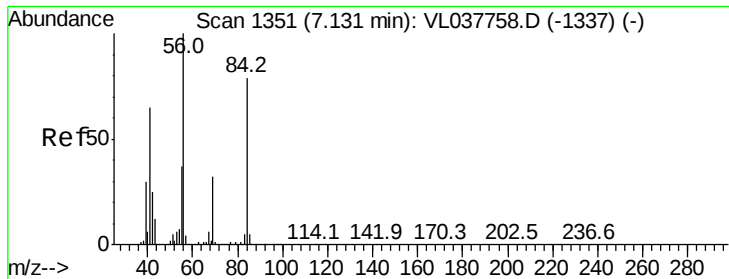
85 64.1 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



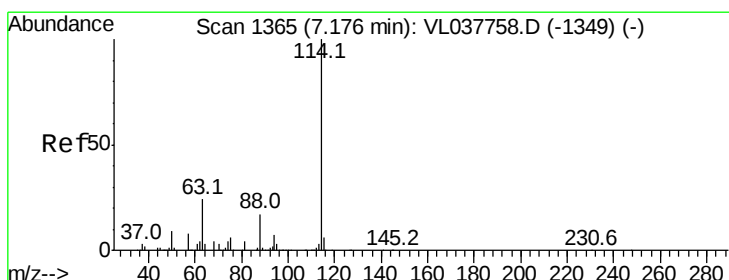
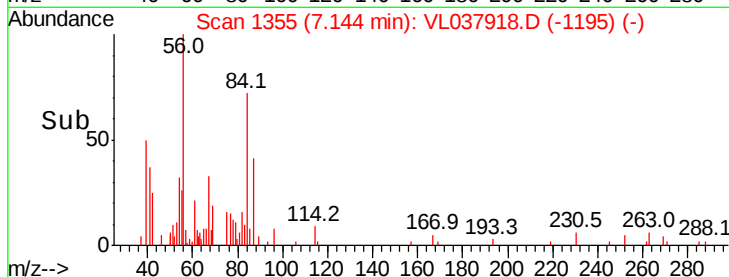
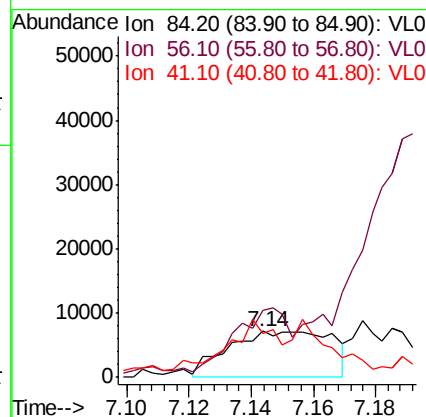
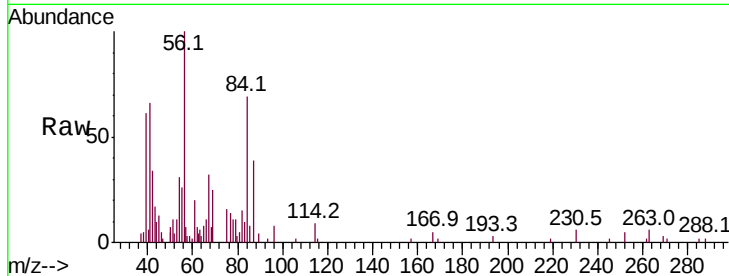


#30
Cvclohexane
Concen: 0.124 ppbv m
RT: 7.14 Instrument : MSVOA_1
Delta R.T. ClientSampleId :
Lab File: VMP-5-MANIFOLD
Acq: 27 Oct 2021 10:22

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

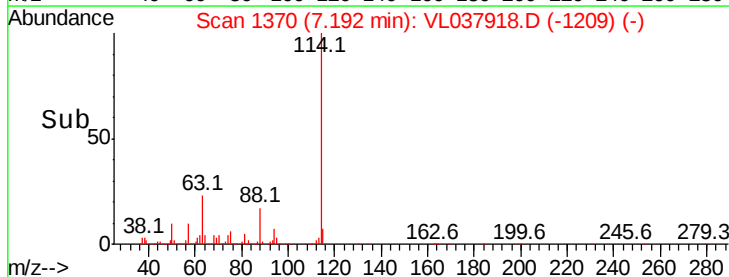
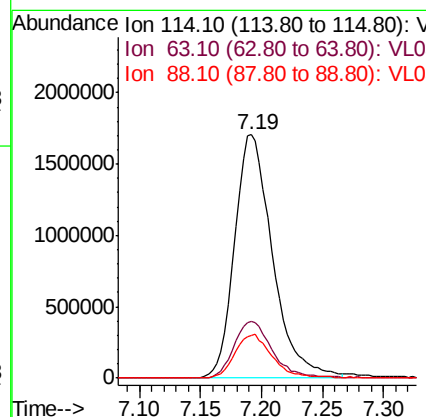
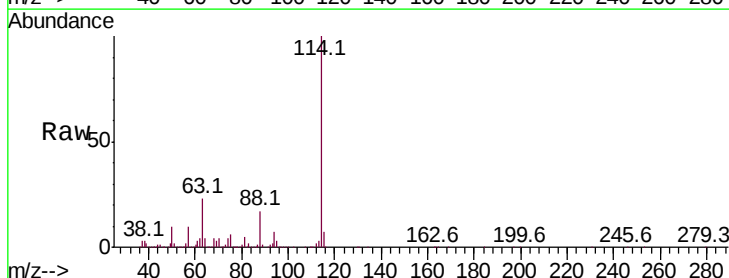
Manual Integrations
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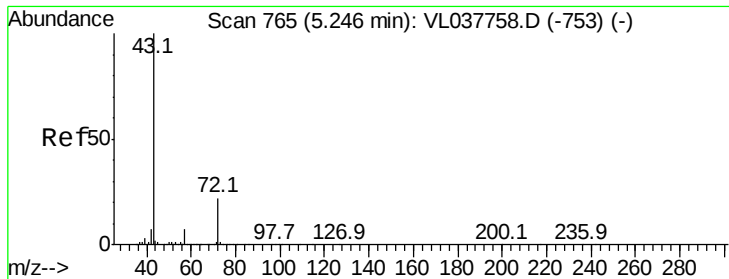
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.02 min
Lab File: VL037918.D
Acq: 27 Oct 2021 16:22

Tgt Ion:114 Resp: 3691341
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.2
88 17.8 14.4 21.6



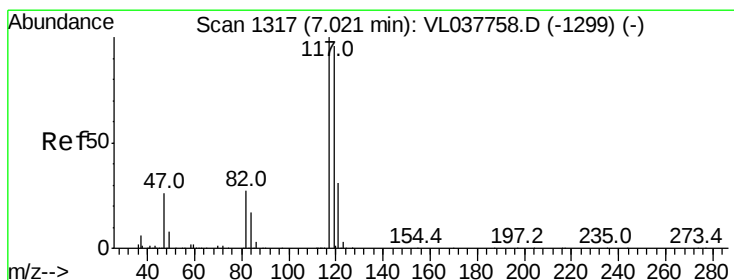
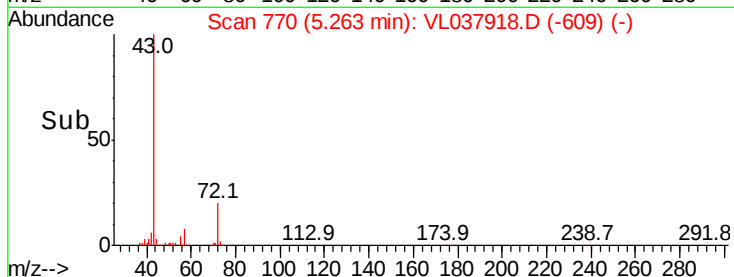
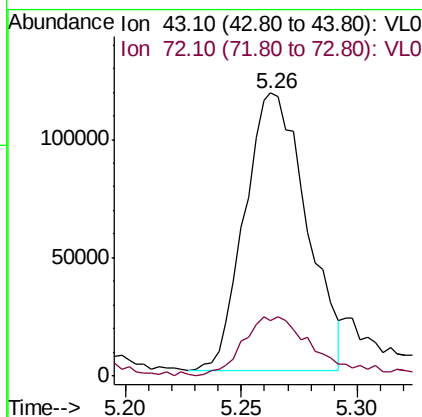
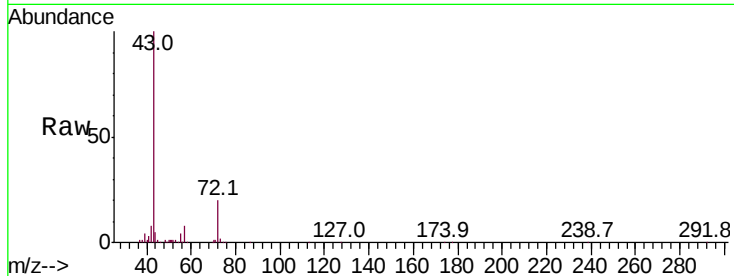


#34
2-Butanone
Concen: 1.461 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VMP-5-MANIFOLD
Acq: 27 Oct 2021 10:22

Tot Ion:
Ion Rati
43 100
72 25.

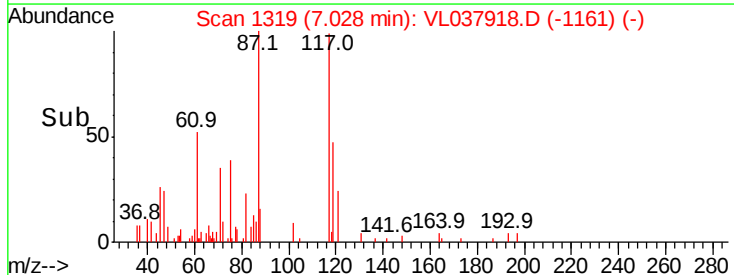
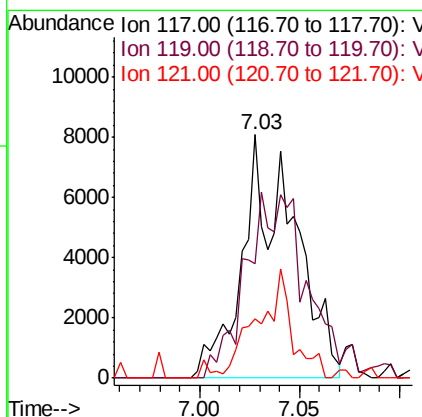
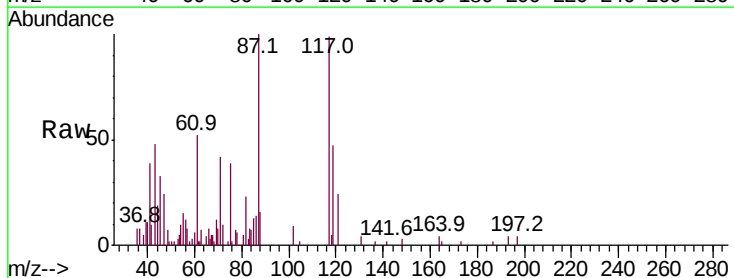
Manual Integrations
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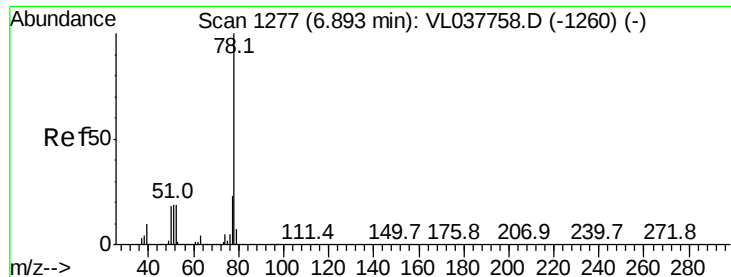
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.01 min
Lab File: VL037918.D
Acq: 27 Oct 2021 16:22

Tgt Ion:117 Resp: 14385
Ion Ratio Lower Upper
117 100
119 47.1 76.5 114.7#
121 24.4 24.9 37.3#



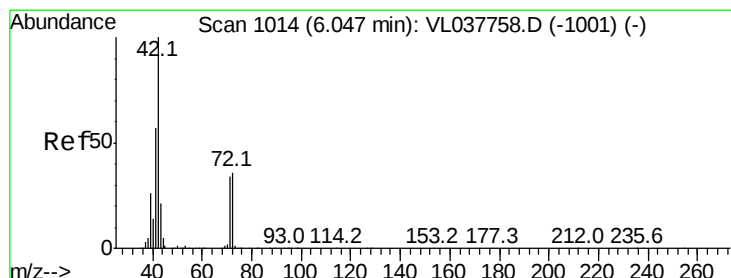
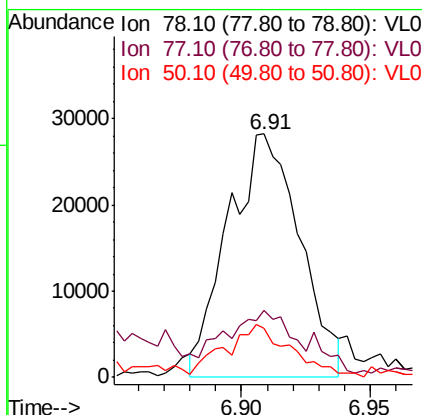
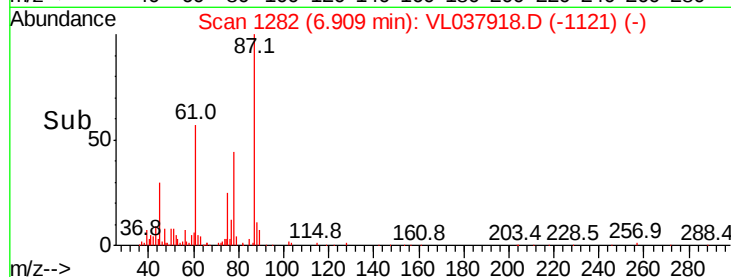
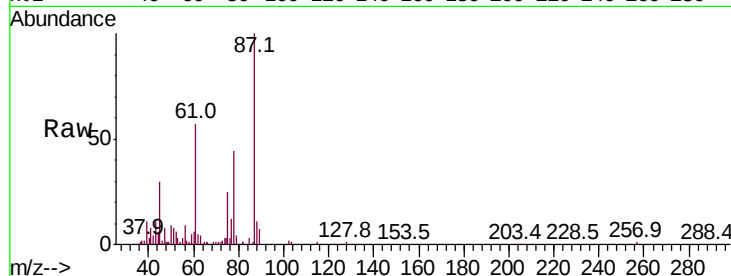


#36
Benzene
Concen: 0.175 ppbv m
RT: 6.91
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 27 Oct 2021 10:22 VMP-5-MANIFOLD DUP

Tot Ion:
Ion Ratio
78 100
77 27.
50 20.

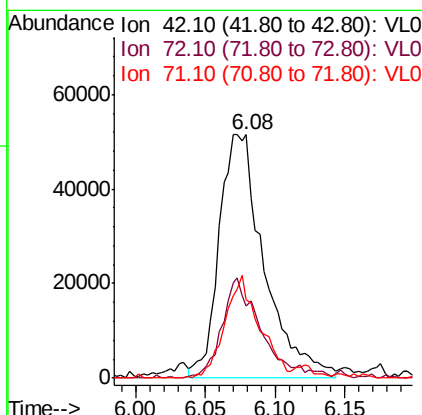
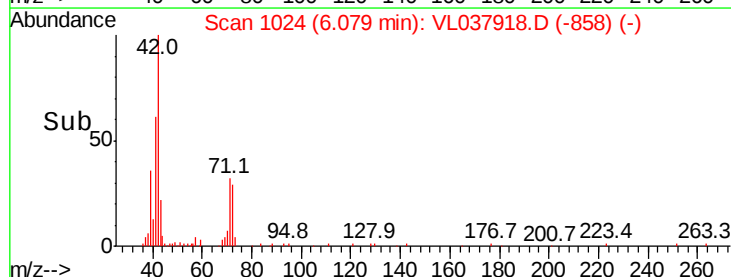
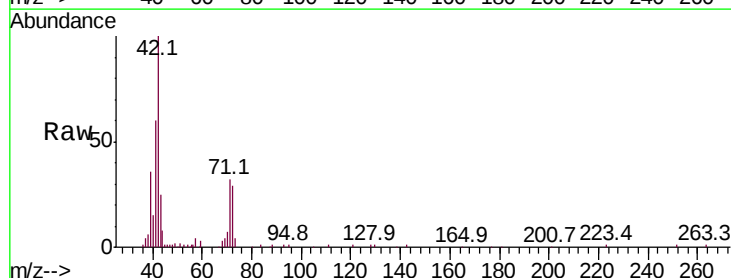
Manual Integrations
APPROVED

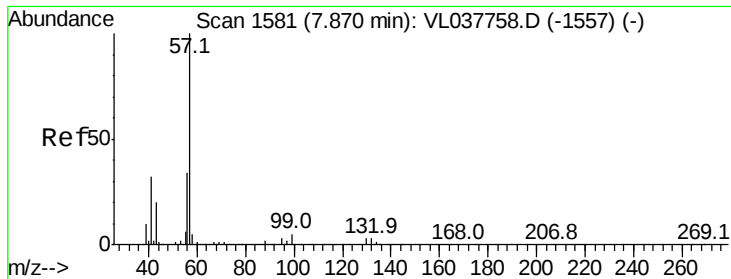
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#41
Tetrahydrofuran
Concen: 1.593 ppbv m
RT: 6.08 min Scan# 1024
Delta R.T. 0.03 min
Lab File: VL037918.D
Acq: 27 Oct 2021 16:22

Tgt Ion: 42 Resp: 116214
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 0.0 30.3 45.5#



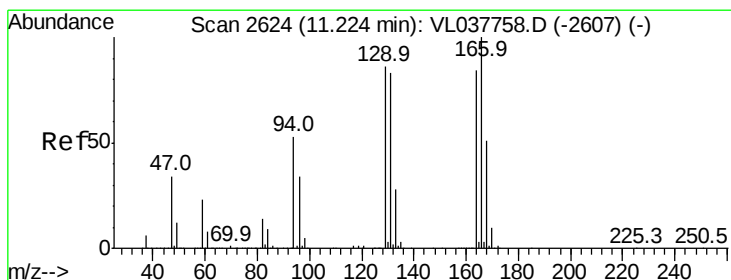
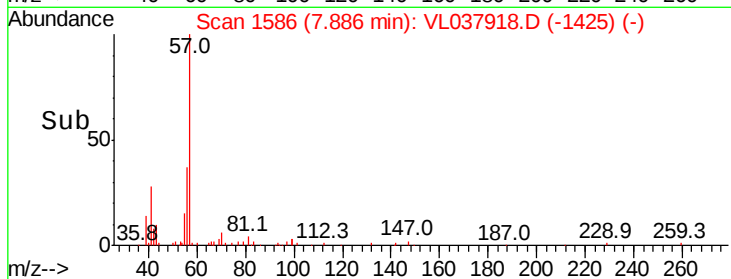
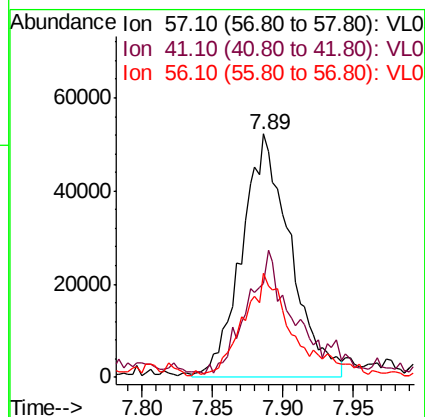
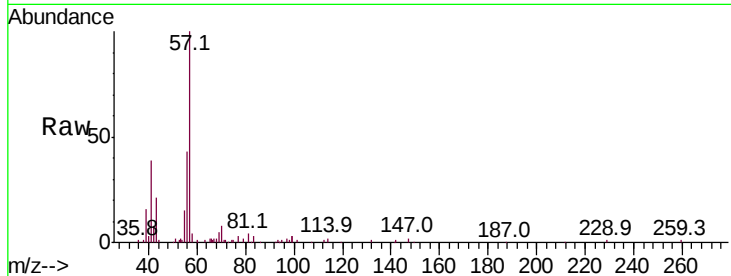


#44
2,2,4-Trimethylpentane
Concen: 0.236 ppbv m
RT: 7.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 10:22 VMP-5-MANIFOLD.DUP

Tot Ion:
Ion Ratio
57 100
41 51.
56 46.

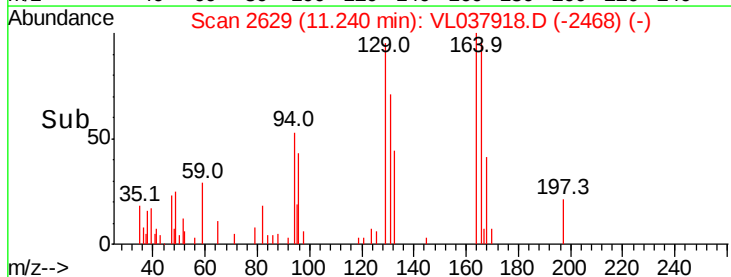
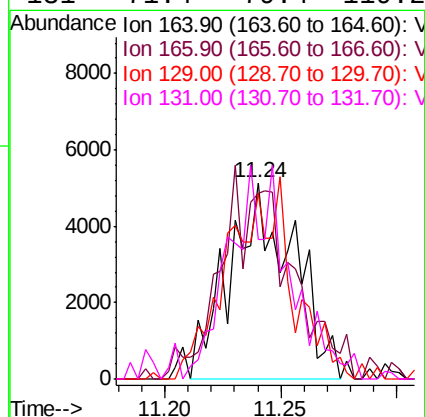
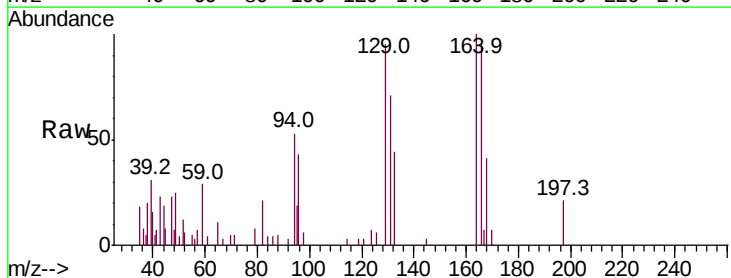
Manual Integrations
APPROVED

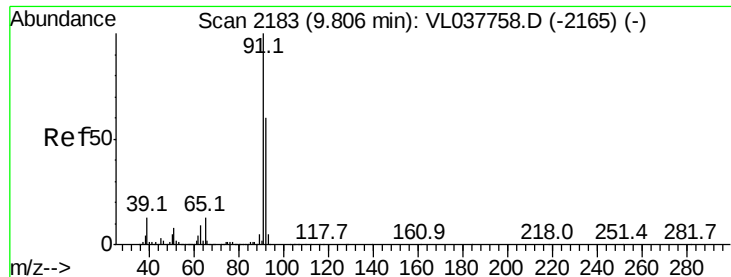
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#52
Tetrachloroethene
Concen: 0.080 ppbv m
RT: 11.24 min Scan# 2629
Delta R.T. 0.02 min
Lab File: VL037918.D
Acq: 27 Oct 2021 16:22

Tgt Ion:164 Resp: 9831
Ion Ratio Lower Upper
164 100
166 94.6 95.4 143.2#
129 94.6 82.2 123.4
131 71.4 79.4 119.2#





#53

Toluene

Concen: 0.949 ppbv

RT: 9.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 10:22

Tot Ion:

Ion Ratio

91 100

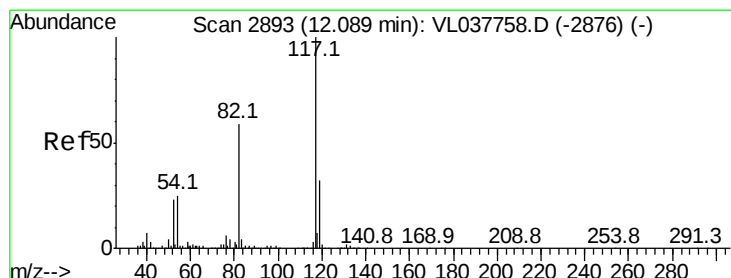
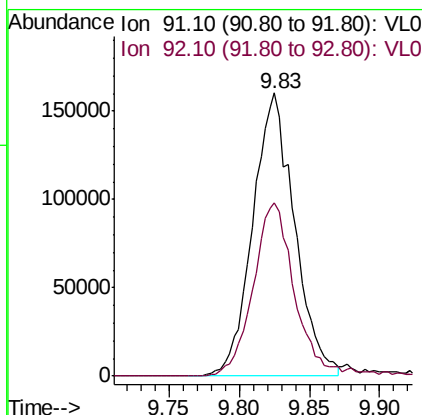
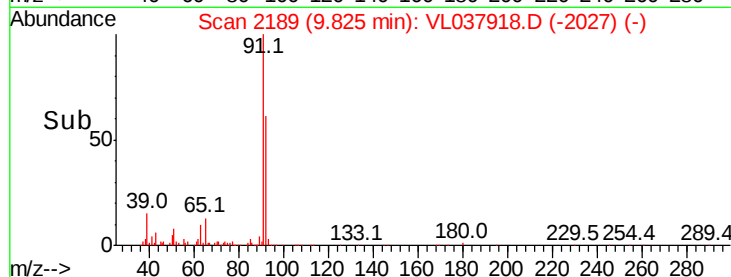
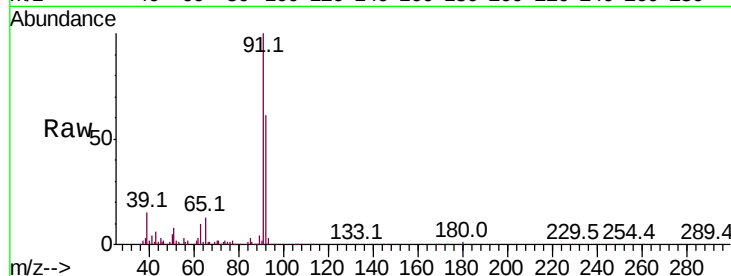
92 62.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL037918.D

Acq: 27 Oct 2021 16:22

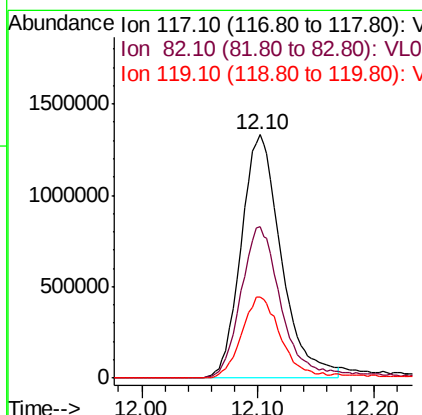
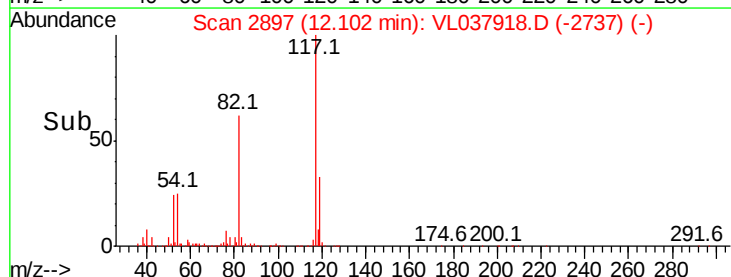
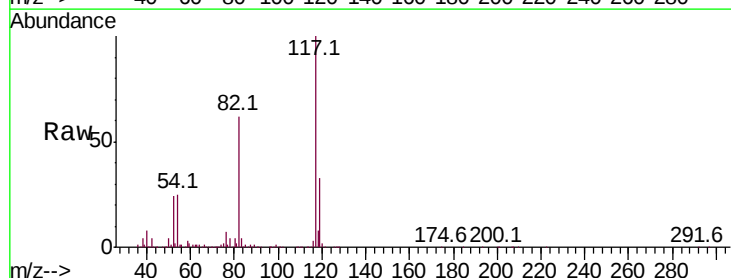
Tgt Ion:117 Resp: 3201646

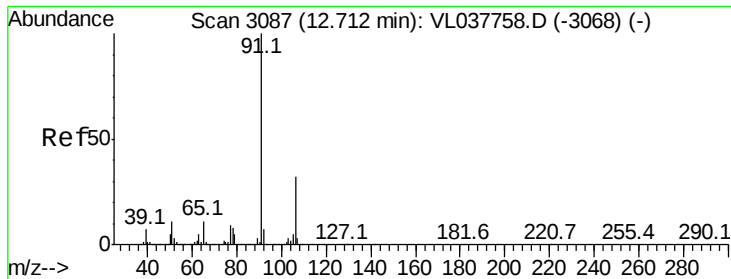
Ion Ratio Lower Upper

117 100

82 66.0 52.2 78.2

119 34.9 26.0 39.0





#58

Ethyl Benzene

Concen: 0.170 ppbv m

RT: 12.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 10:22

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

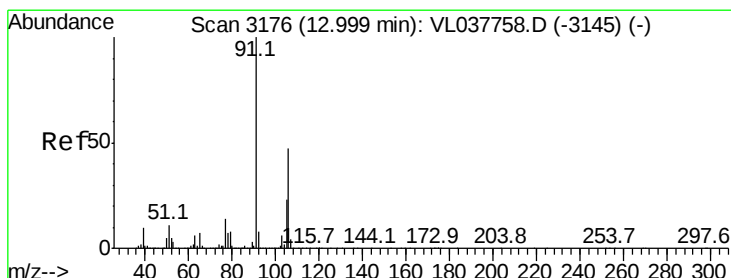
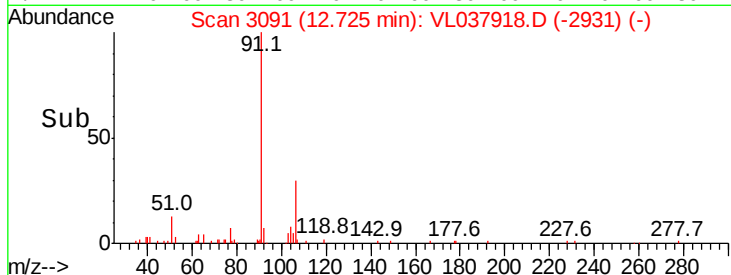
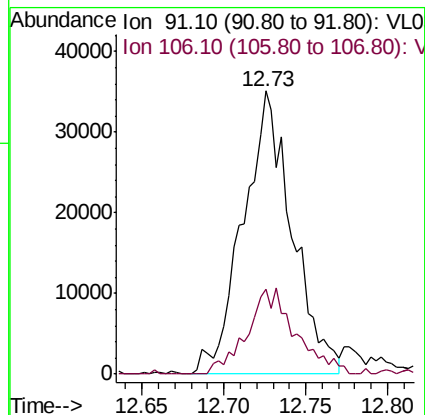
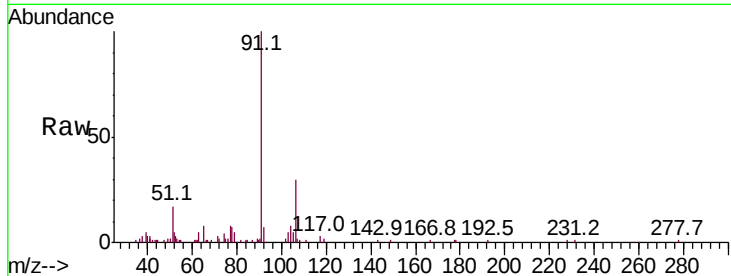
Supervised By :Mahesh Dadoda 10/29/2021

Tot Ion:

Ion Ratio

91 100

106 29.



#59

m/p-Xylene

Concen: 0.622 ppbv m

RT: 12.98 min Scan# 3171

Delta R.T. -0.02 min

Lab File: VL037918.D

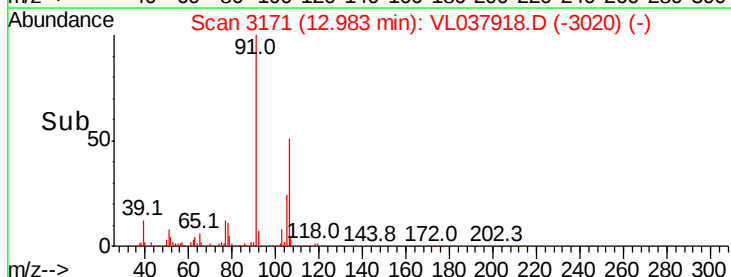
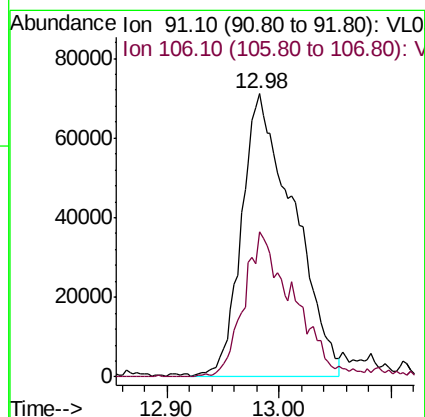
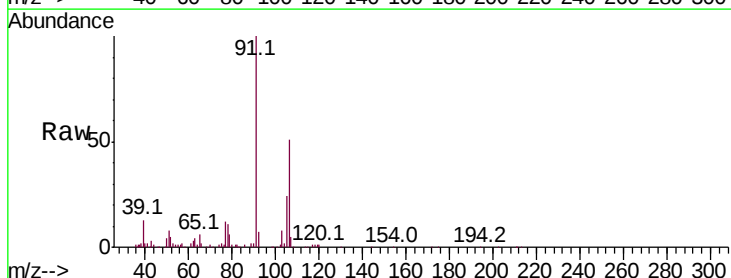
Acq: 27 Oct 2021 16:22

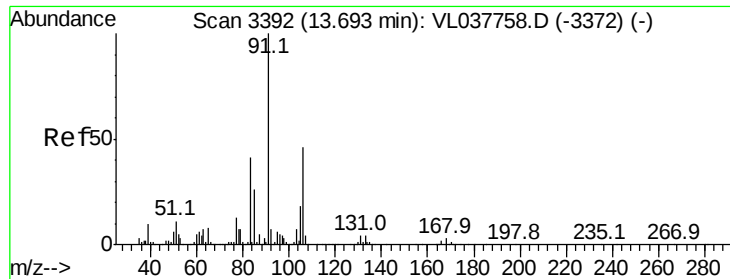
Tgt Ion: 91 Resp: 229499

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#



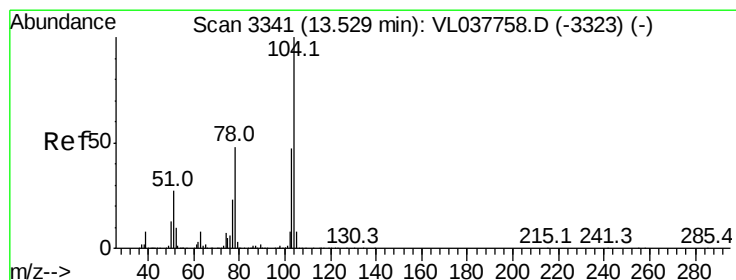
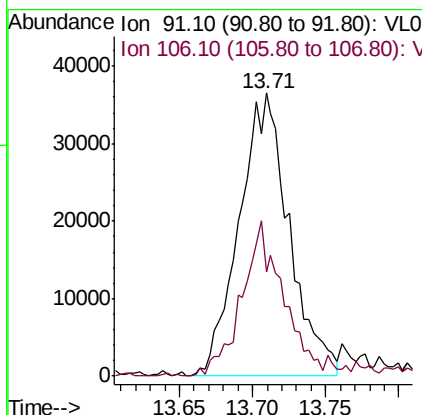
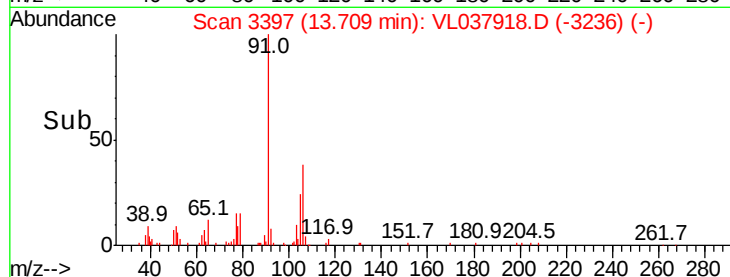
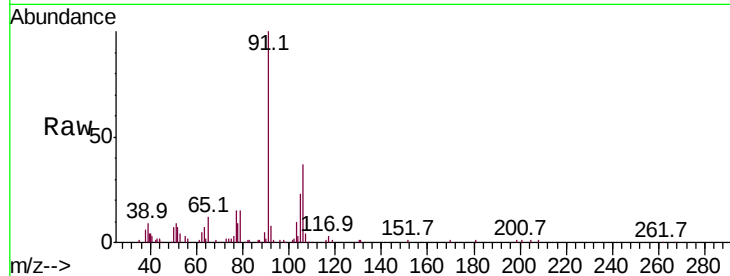


#60
o-Xylene
Concen: 0.245 ppbv m
RT: 13.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 27 Oct 2021 10:22 VMP-5-MANIFOLD

Tot Ion:
Ion Ratio
91 100
106 46.

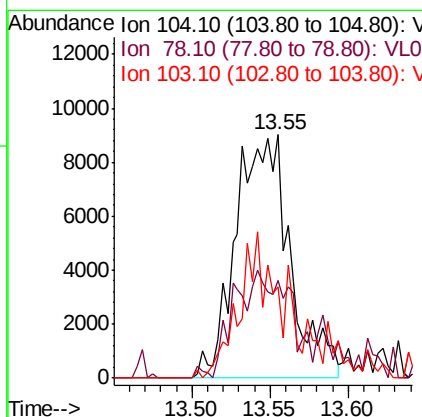
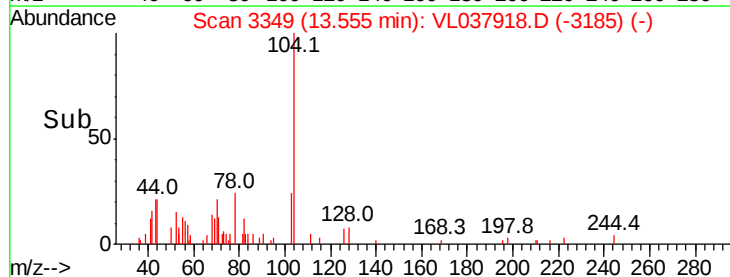
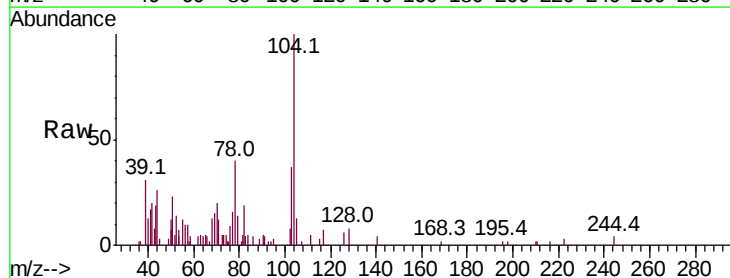
Manual Integrations
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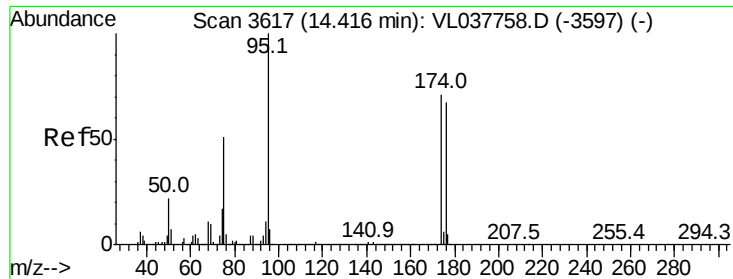
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#61
Styrene
Concen: 0.127 ppbv m
RT: 13.55 min Scan# 3349
Delta R.T. 0.03 min
Lab File: VL037918.D
Acq: 27 Oct 2021 16:22

Tgt Ion:104 Resp: 21716
Ion Ratio Lower Upper
104 100
78 60.2 40.6 61.0
103 60.0 39.6 59.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.615 ppbv

RT: 14.43

Delta R.T

Lab File:

Acq: 27 Oct 2021

Instrument : MSVOA_L
ClientSampleId : VMP-5-MANIFOLD
DUP

Tot Ion:

Ion Ratio

95 100

174 78.

175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021

