

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102521\
 Data File : VL037899.D
 Acq On : 25 Oct 2021 18:24
 Operator : SY/AP
 Sample : M4339-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SVE-EFFLUENTDUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/27/2021
 Supervised By : Mahesh Dadoda 10/27/2021

Quant Time: Oct 27 12:07:27 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	1253839	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3707559	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3183704	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2272710	10.21	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	38628m	0.193	ppbv	
3) Chlorodifluoromethane	3.01	51	47932m	0.199	ppbv	
4) Chloromethane	3.15	50	17017m	0.193	ppbv	
9) Propene	3.03	41	26422m	0.298	ppbv	
10) Heptane	8.14	43	55626m	0.276	ppbv	
11) Trichlorofluoromethane	3.96	101	85407m	0.478	ppbv	
13) Ethanol	3.63	45	139544	19.249	ppbv	89
15) Acetone	3.87	43	170572m	1.515	ppbv	
19) Isopropyl Alcohol	3.99	45	124004m	1.771	ppbv	
20) Methylene Chloride	4.36	84	203920	3.586	ppbv	93
22) trans-1,2-Dichloroethene	4.90	96	9517m	0.154	ppbv	
26) Hexane	5.70	57	194498	1.251	ppbv #	48
29) Chloroform	5.76	83	91267	0.411	ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	620849	4.397	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	138855	0.659	ppbv	95
34) 2-Butanone	5.27	43	52446m	0.350	ppbv	
35) Carbon Tetrachloride	7.04	117	9164m	0.044	ppbv	
36) Benzene	6.91	78	65138m	0.206	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	64148m	0.121	ppbv	
52) Tetrachloroethene	11.24	164	50565m	0.410	ppbv	
53) Toluene	9.82	91	806234	2.297	ppbv	99
58) Ethyl Benzene	12.73	91	66179	0.155	ppbv #	88
59) m/p-Xylene	12.98	91	141117m	0.385	ppbv	
60) o-Xylene	13.71	91	42443m	0.121	ppbv	

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

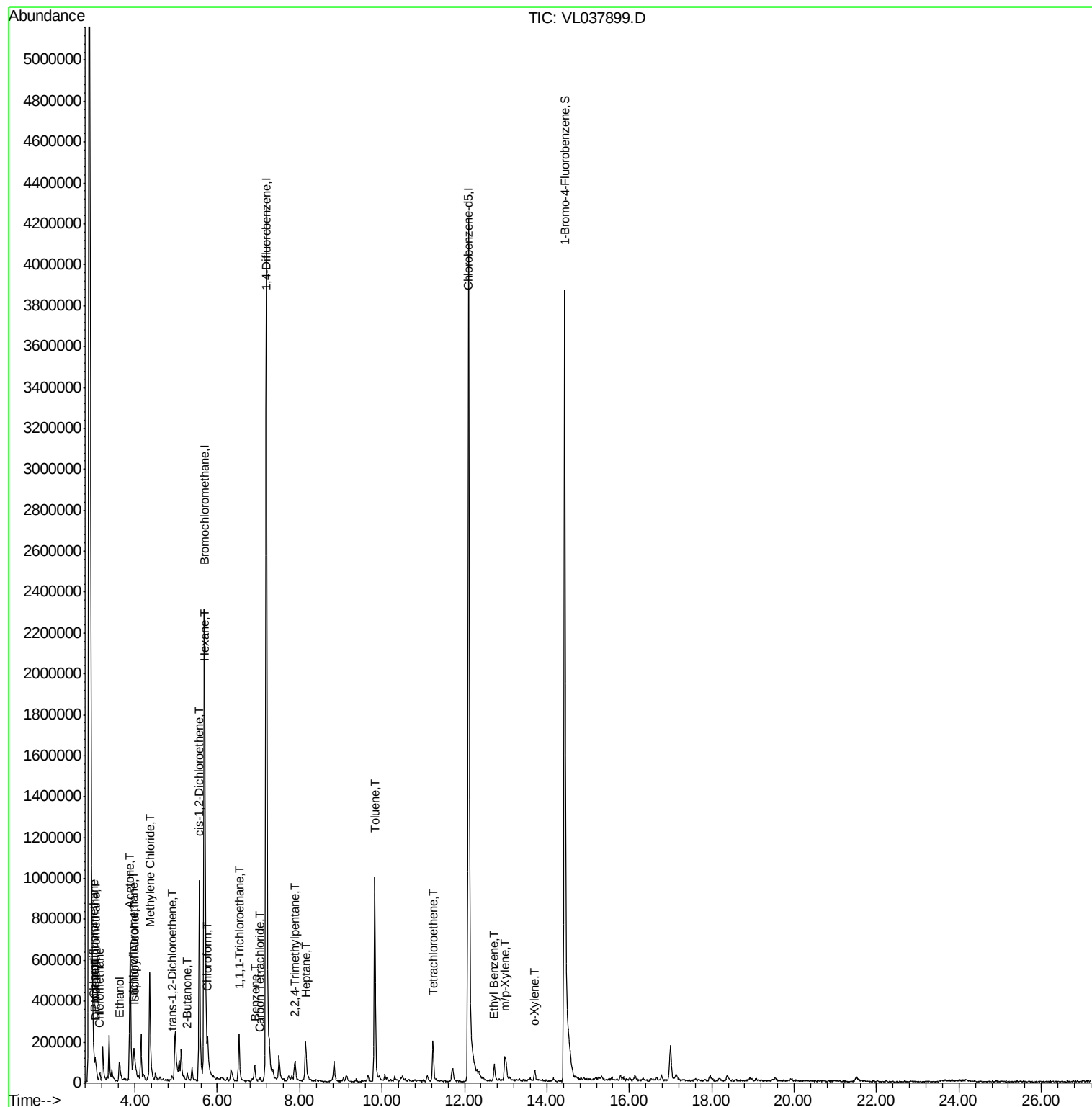
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL102521\
Data File : VL037899.D
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Operator : SY/AP
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Misc : 400mL/MSVOA L
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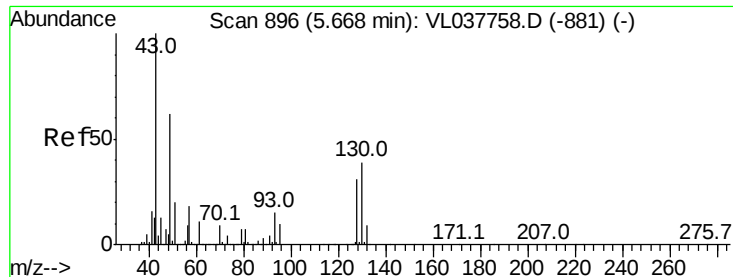
Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENTDUP

Quant Time: Oct 27 12:07:27 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

Reviewed By :Semsettin Yesilyurt 10/27/2021
Supervised By :Mahesh Dadoda 10/27/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENTDUP

Acq: 25 Oct 2021 18:24

Tot Ion:

Ion Ratio

49 100

128 52.

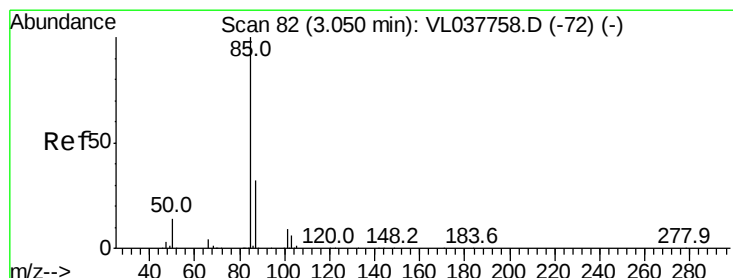
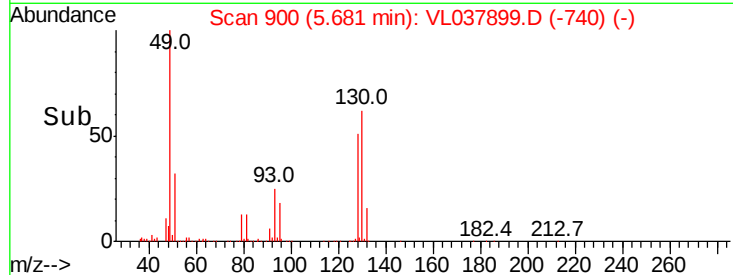
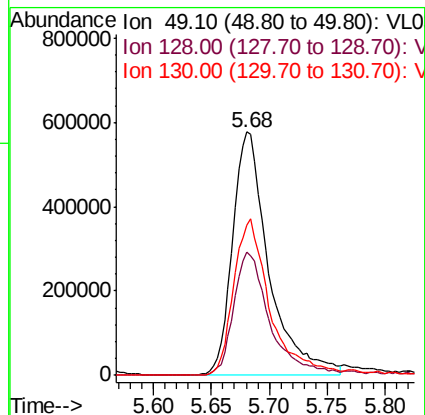
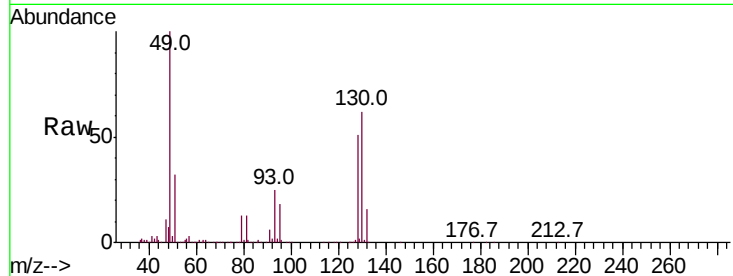
130 67.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#2

Dichlorodifluoromethane

Concen: 0.193 ppbv m

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL037899.D

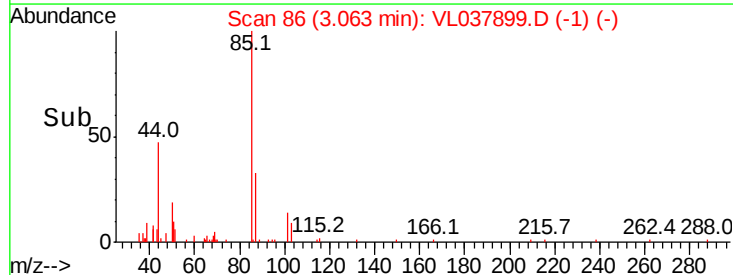
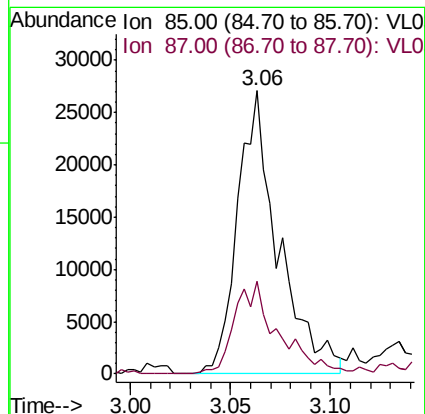
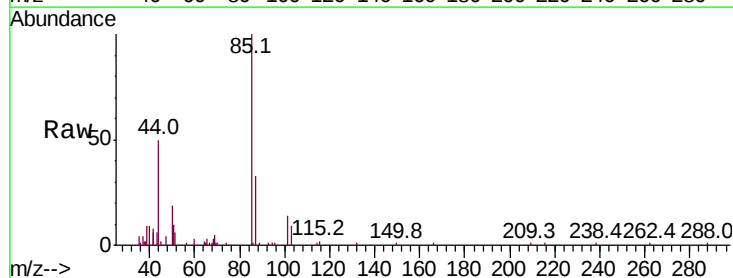
Acq: 25 Oct 2021 18:24

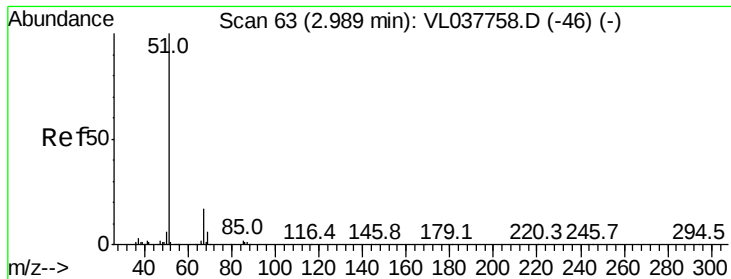
Tgt Ion: 85 Resp: 38628

Ion Ratio Lower Upper

85 100

87 32.7 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.199 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 18:24 SVE-EFFLUENTDUP

Tot Ion:

Ion Ratio

51 100

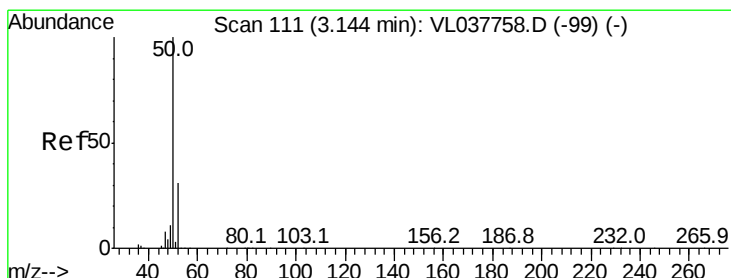
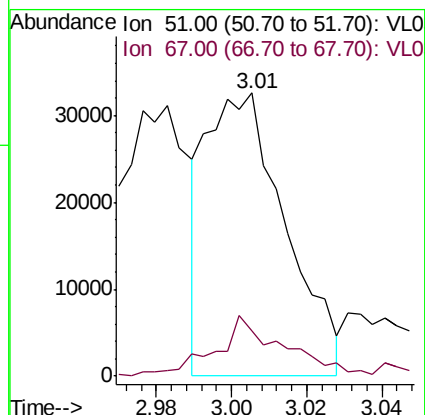
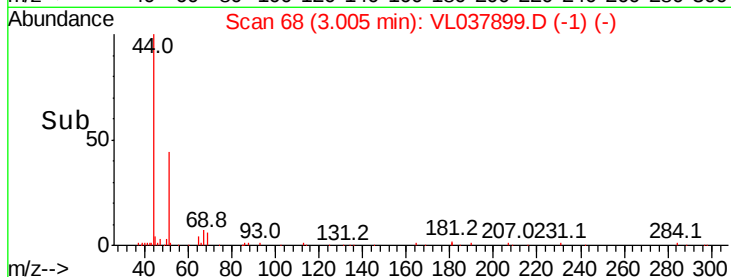
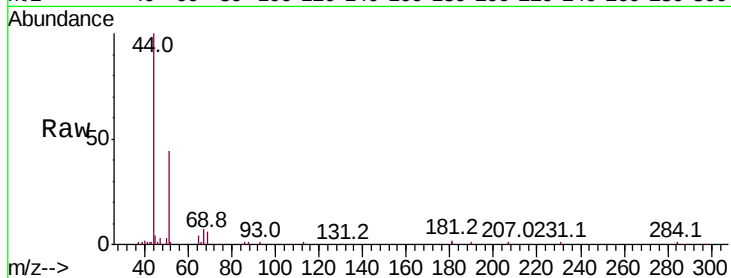
67 2.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#4

Chloromethane

Concen: 0.193 ppbv m

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL037899.D

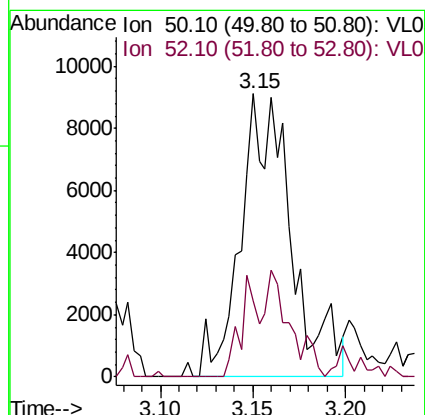
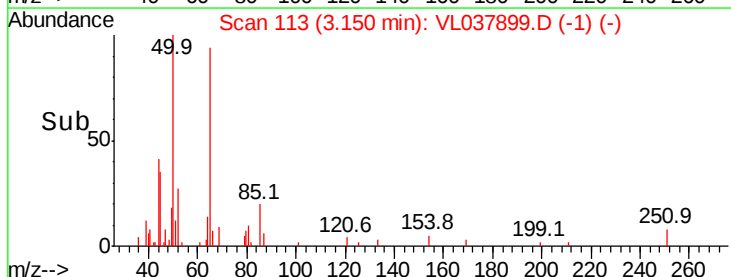
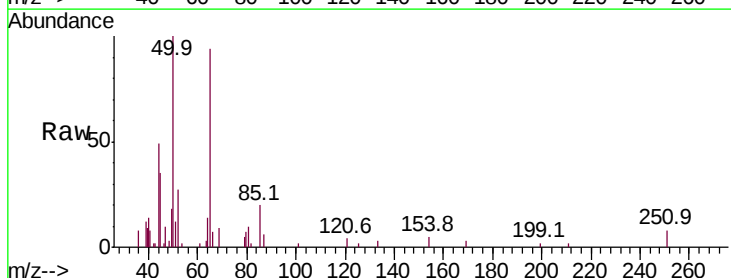
Acq: 25 Oct 2021 18:24

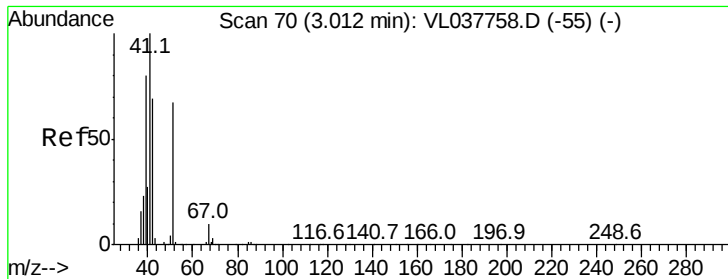
Tgt Ion: 50 Resp: 17017

Ion Ratio Lower Upper

50 100

52 27.0 24.4 36.6





#9

Propene

Concen: 0.298 ppbv m

RT: 3.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 18:24

Tot Ion:

Ion Ratio

41 100

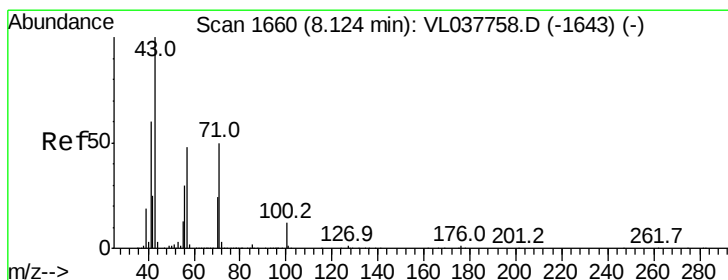
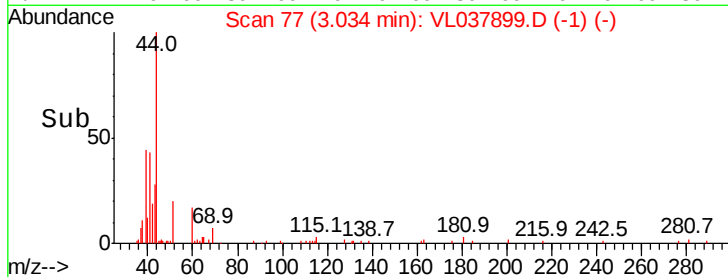
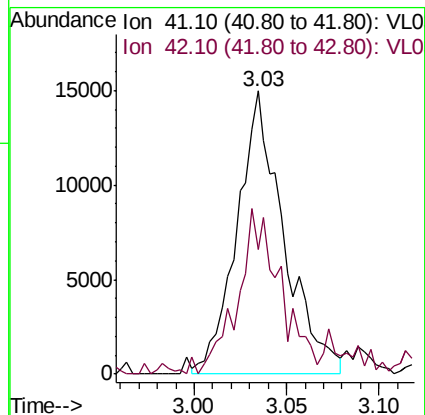
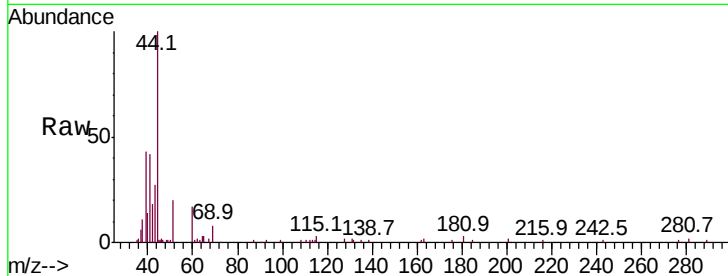
42 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#10

Heptane

Concen: 0.276 ppbv m

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL037899.D

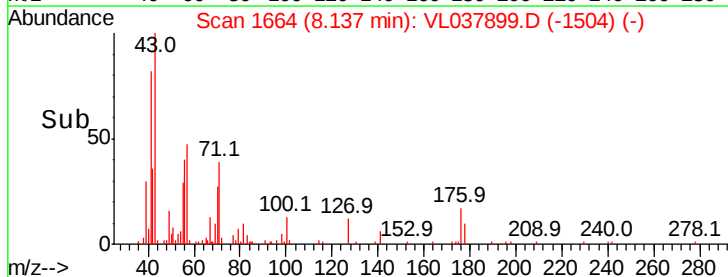
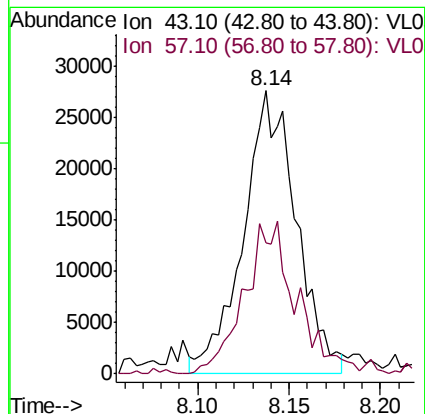
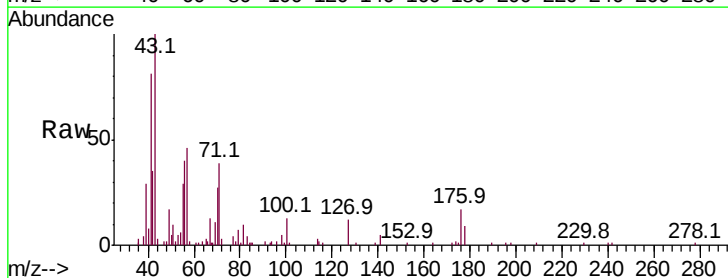
Acq: 25 Oct 2021 18:24

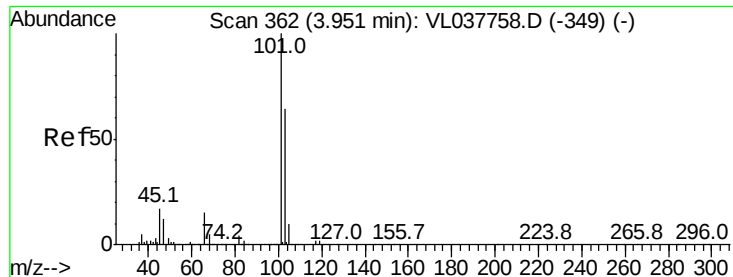
Tgt Ion: 43 Resp: 55626

Ion Ratio Lower Upper

43 100

57 53.6 40.0 60.0



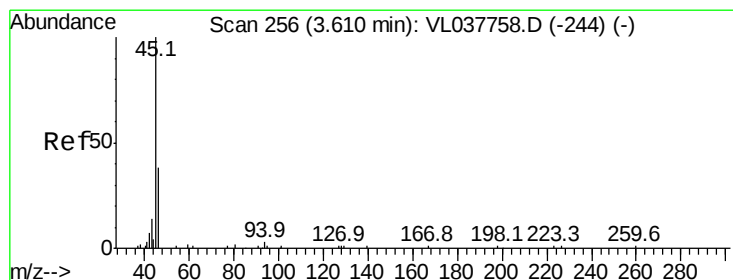
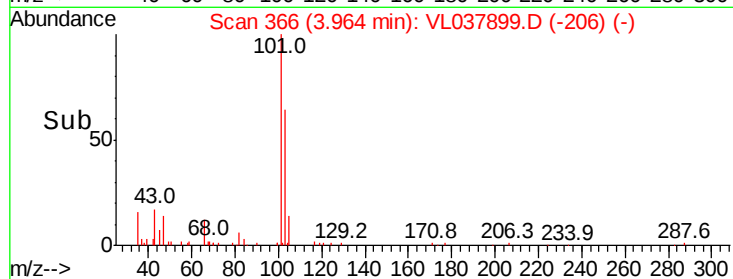
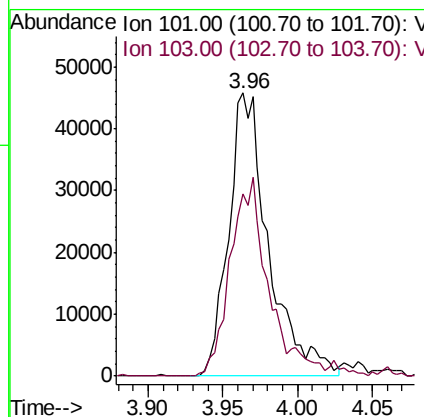
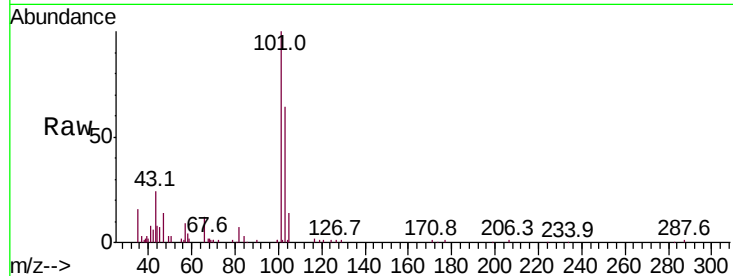


#11
 Trichlorofluoromethane
 Concen: 0.478 ppbv m
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SVE-EFFLUENTDUP
 Acq: 25 Oct 2021 18:24

Tot Ion:1
 Ion Rati
 101 100
 103 64.

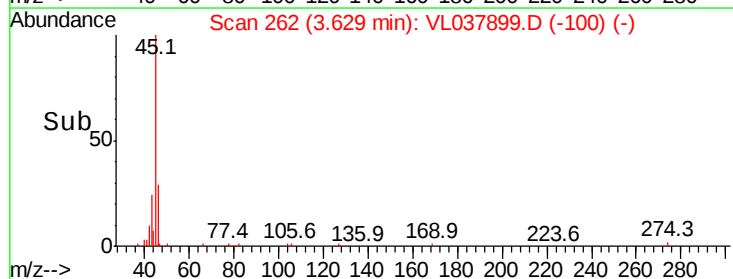
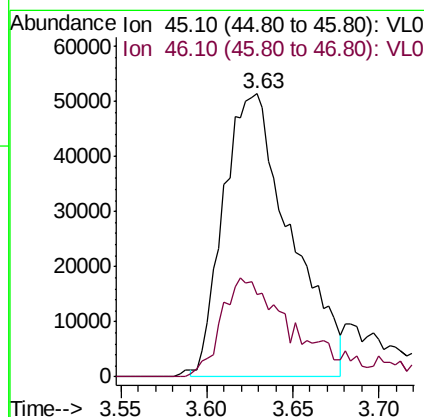
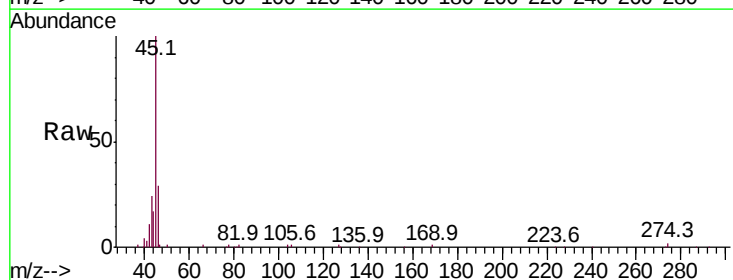
Manual Integrations
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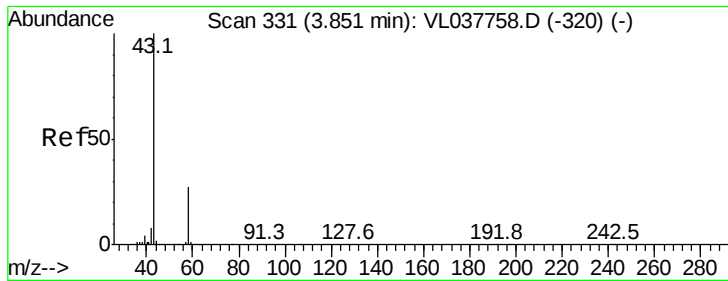
Reviewed By :Semsettin Yesilyurt 10/27/2021
 Supervised By :Mahesh Dadoda 10/27/2021



#13
 Ethanol
 Concen: 19.249 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T. 0.02 min
 Lab File: VL037899.D
 Acq: 25 Oct 2021 18:24

Tgt Ion: 45 Resp: 139544
 Ion Ratio Lower Upper
 45 100
 46 42.8 20.2 81.0





#15

Acetone

Concen: 1.515 ppbv m

RT: 3.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 18:24

Tot Ion:

Ion Ratio

43 100

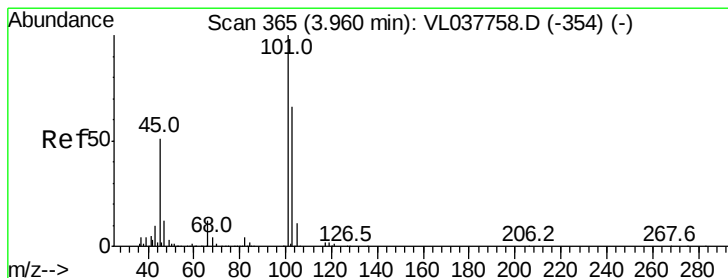
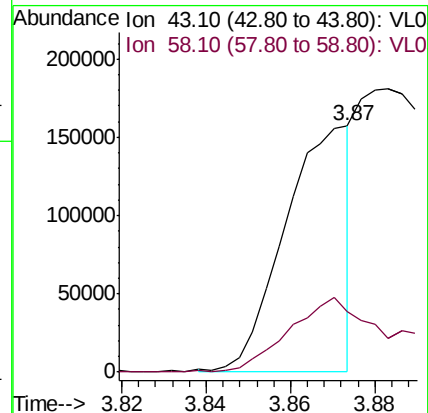
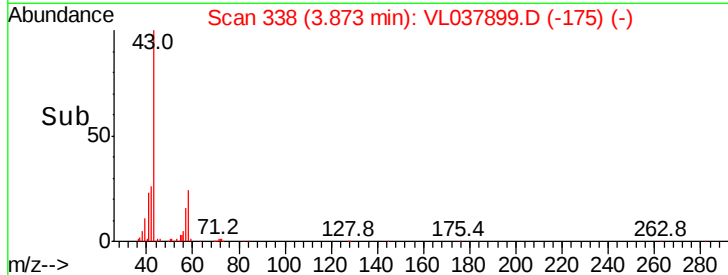
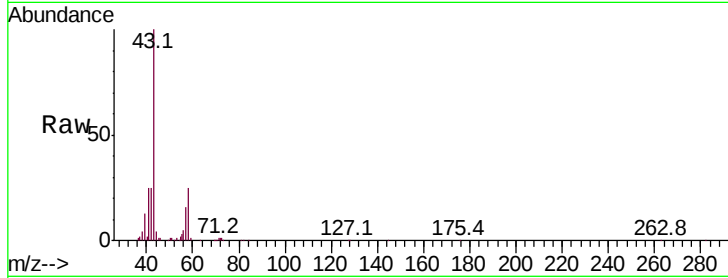
58 58.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#19

Isopropyl Alcohol

Concen: 1.771 ppbv m

RT: 3.99 min Scan# 374

Delta R.T. 0.03 min

Lab File: VL037899.D

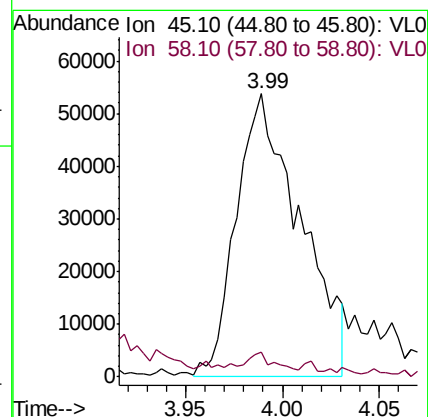
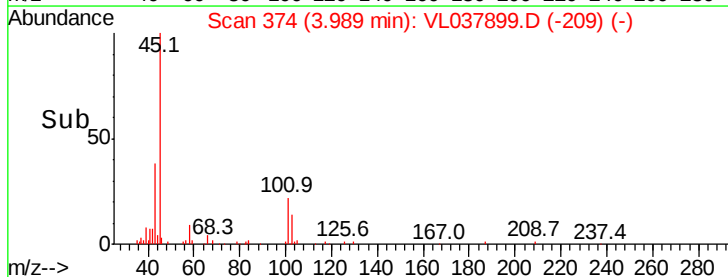
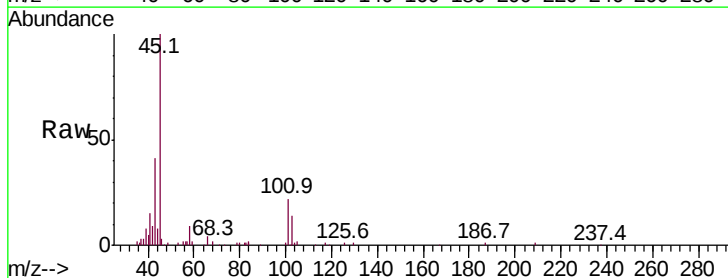
Acq: 25 Oct 2021 18:24

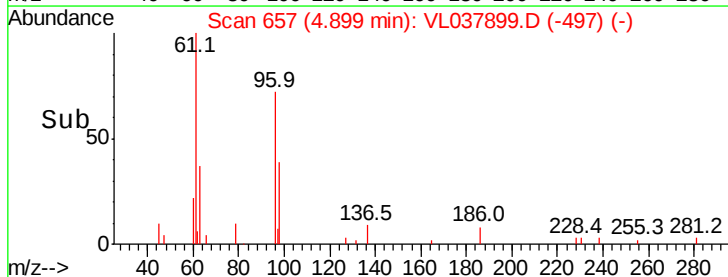
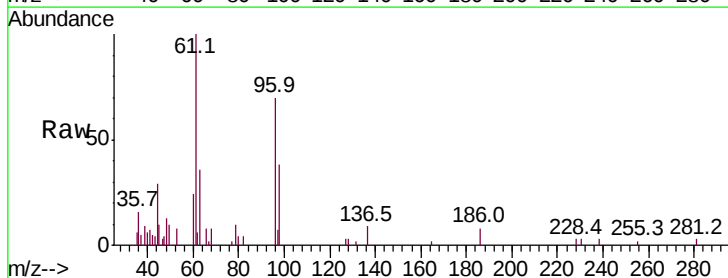
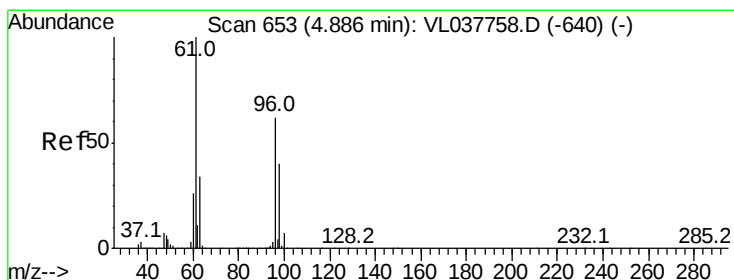
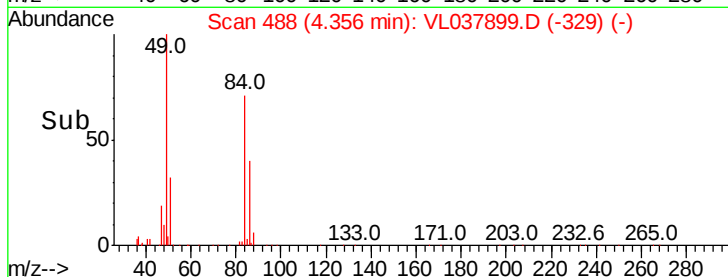
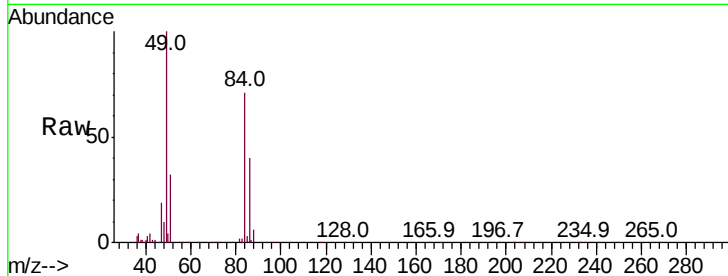
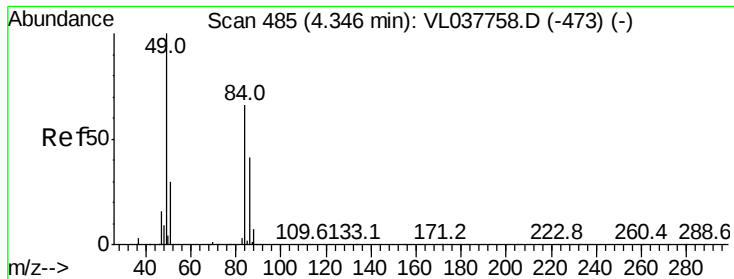
Tgt Ion: 45 Resp: 124004

Ion Ratio Lower Upper

45 100

58 4.7 1.1 1.7#





#20

Methvlene Chloride

Concen: 3.586 ppbv

RT: 4.36

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Oct 2021 18:24

Tot Ion:

Ion Ratio

84	100
49	140.
51	44.
86	55.5

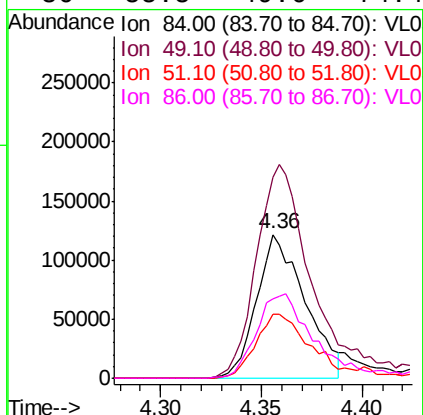
49.6 74.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#22

trans-1,2-Dichloroethene

Concen: 0.154 ppbv m

RT: 4.90 min Scan# 657

Delta R.T. 0.01 min

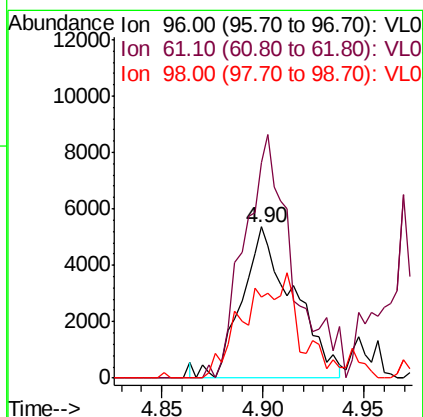
Lab File: VL037899.D

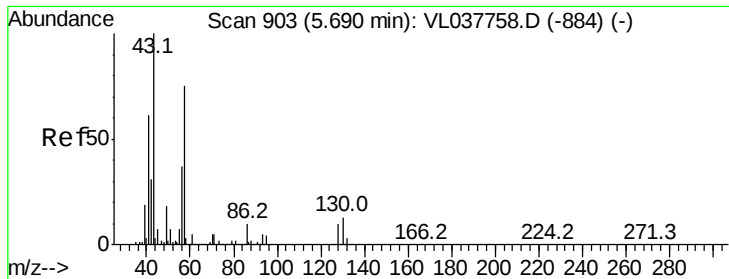
Acq: 25 Oct 2021 18:24

Tgt Ion: 96 Resp: 9517

Ion Ratio Lower Upper

96	100		
61	143.1	129.0	193.6
98	53.7	51.7	77.5

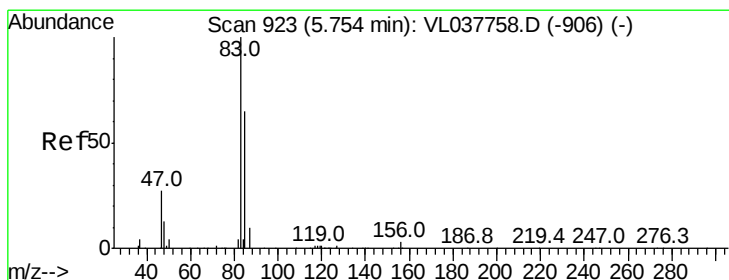
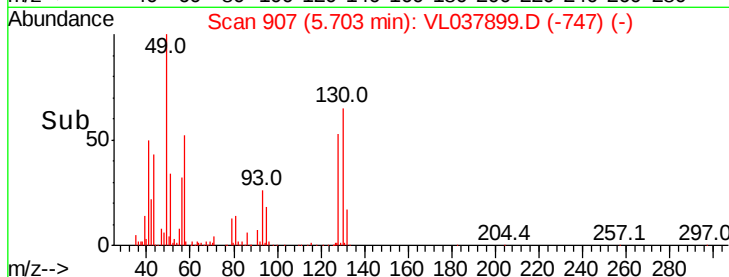
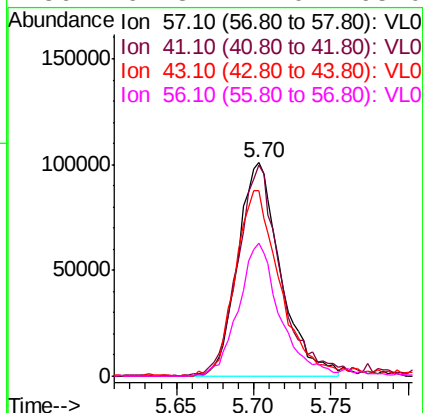
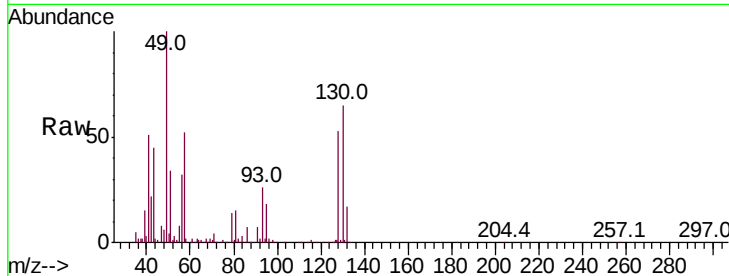




#26
Hexane
Concen: 1.251 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 18:24 SVE-EFFLUENTDUP

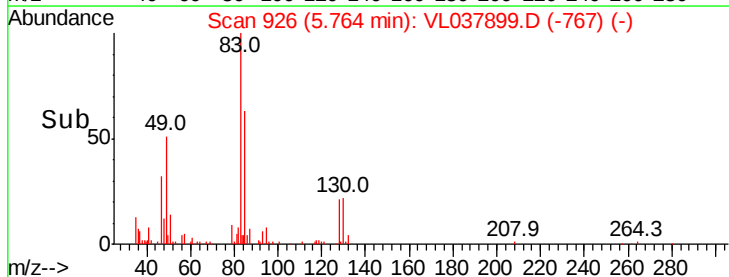
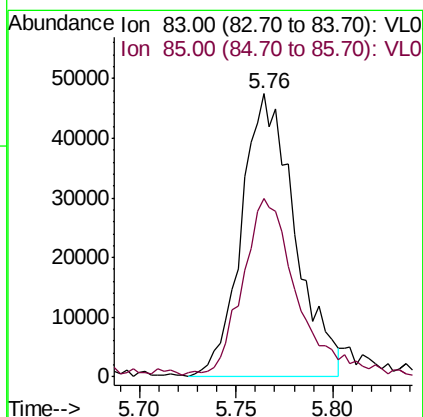
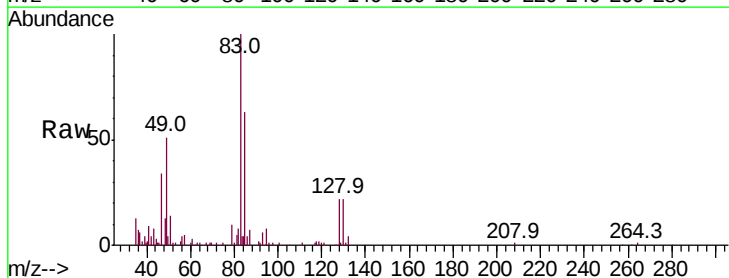
Tot Ion: Manual Integrations
Ion Ratio APPROVED
57 100
41 100.
43 94.
56 62.3 42.0 63.0

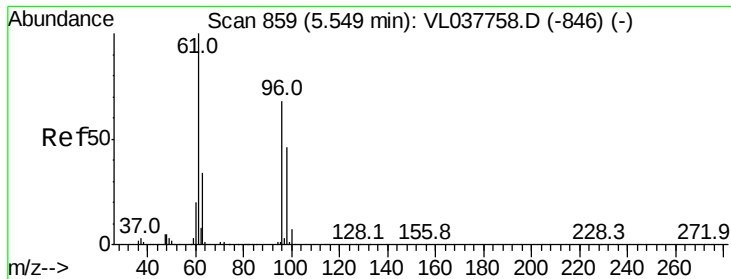
Reviewed By :Semsettin Yesilyurt 10/27/2021
Supervised By :Mahesh Dadoda 10/27/2021



#29
Chloroform
Concen: 0.411 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.01 min
Lab File: VL037899.D
Acq: 25 Oct 2021 18:24

Tgt Ion: 83 Resp: 91267
Ion Ratio Lower Upper
83 100
85 61.8 51.8 77.8





#31

cis-1,2-Dichloroethene

Concen: 4.397 ppbv

RT: 5.56

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 18:24

Tot Ion:

Ion Ratio

61 100

96 68.

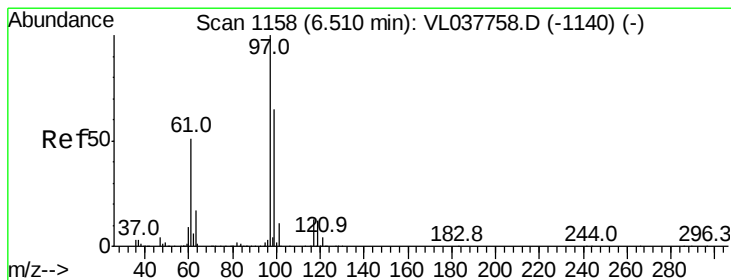
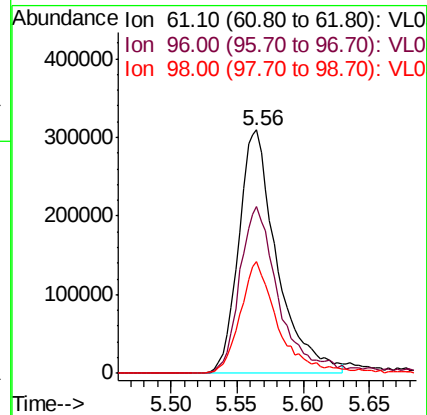
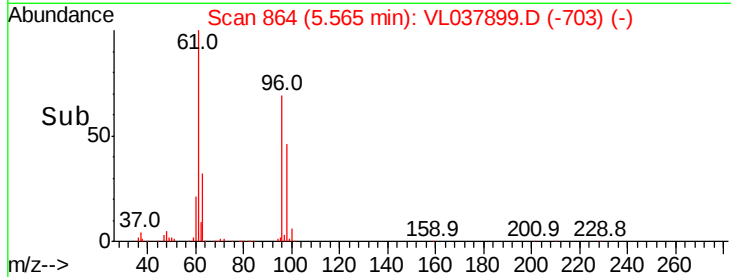
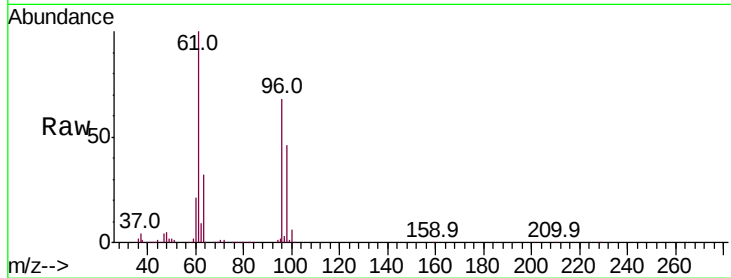
98 46.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#32

1,1,1-Trichloroethane

Concen: 0.659 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. 0.02 min

Lab File: VL037899.D

Acq: 25 Oct 2021 18:24

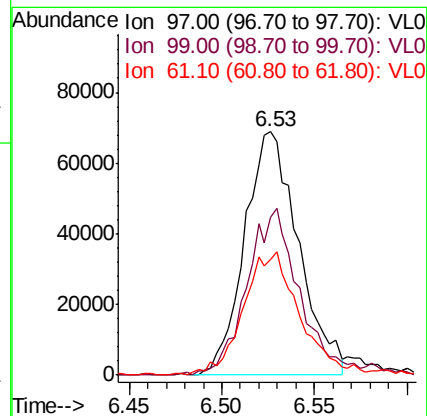
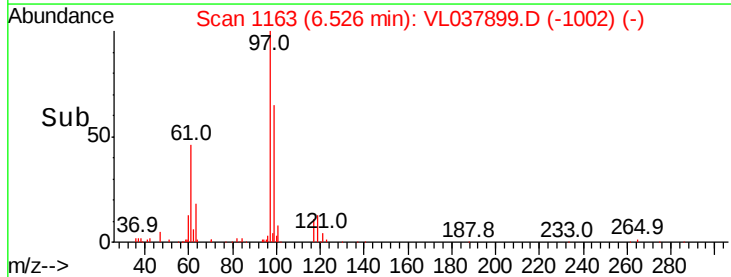
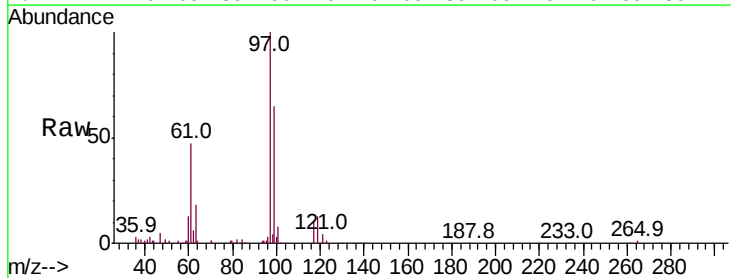
Tgt Ion: 97 Resp: 138855

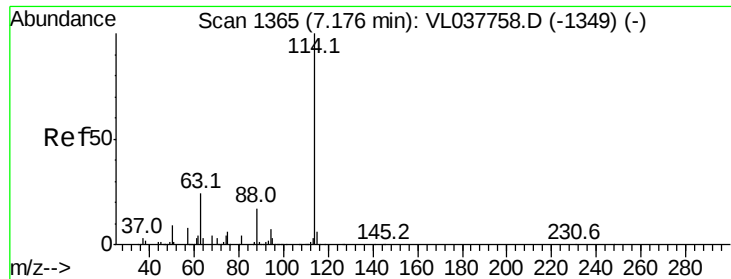
Ion Ratio Lower Upper

97 100

99 69.1 52.6 78.8

61 54.3 40.2 60.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Oct 2021 18:24

Tot Ion:1

Ion Rati

114 100

63 23.

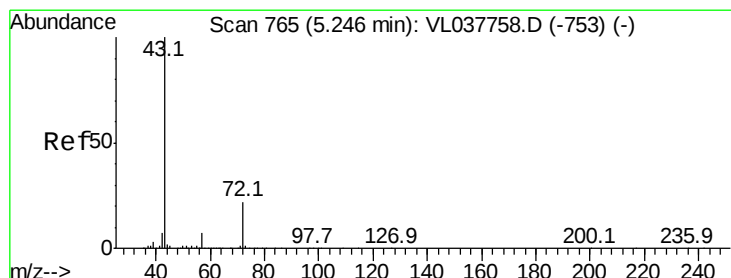
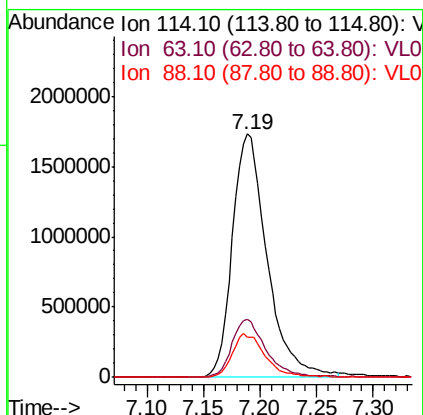
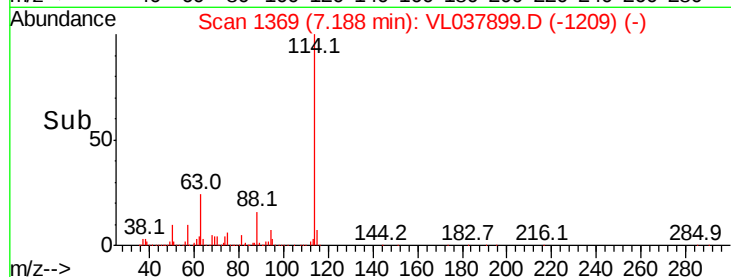
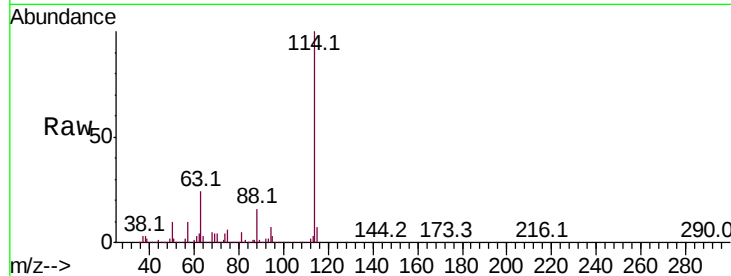
88 17.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#34

2-Butanone

Concen: 0.350 ppbv m

RT: 5.27 min Scan# 772

Delta R.T. 0.02 min

Lab File: VL037899.D

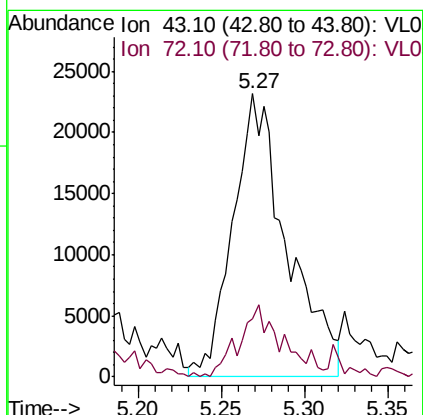
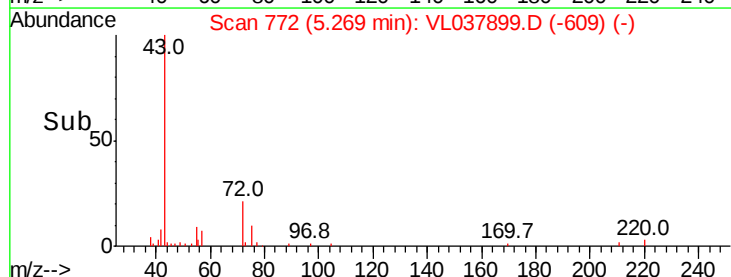
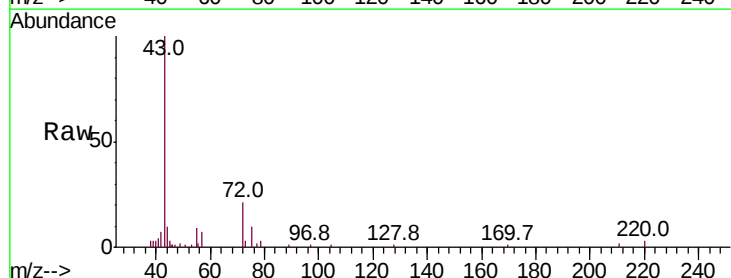
Acq: 25 Oct 2021 18:24

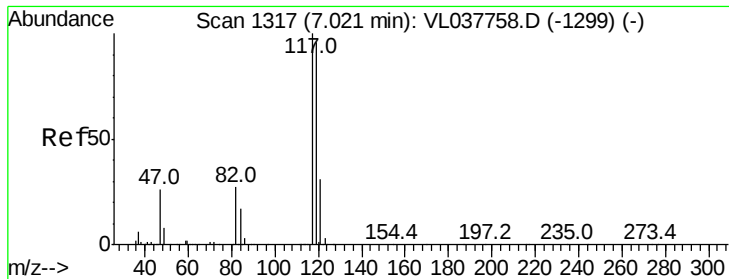
Tgt Ion: 43 Resp: 52446

Ion Ratio Lower Upper

43 100

72 23.0 18.2 27.2



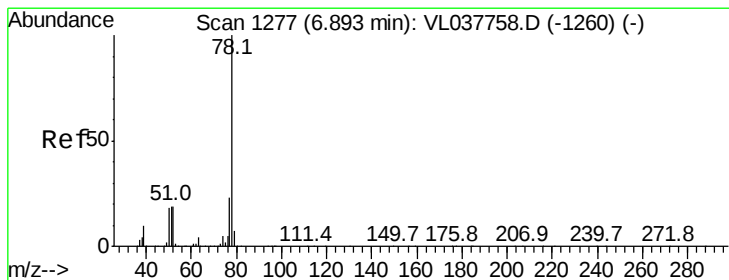
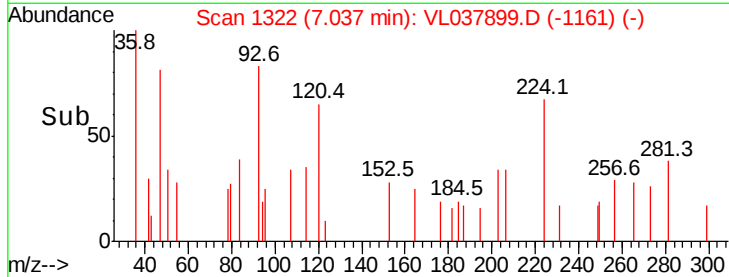
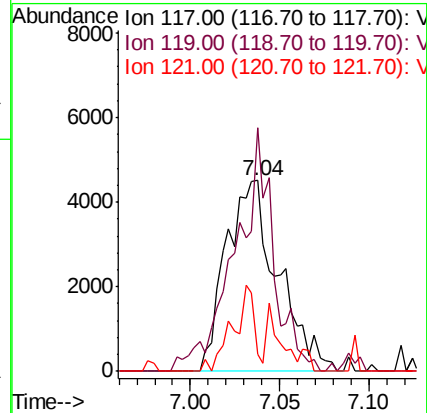
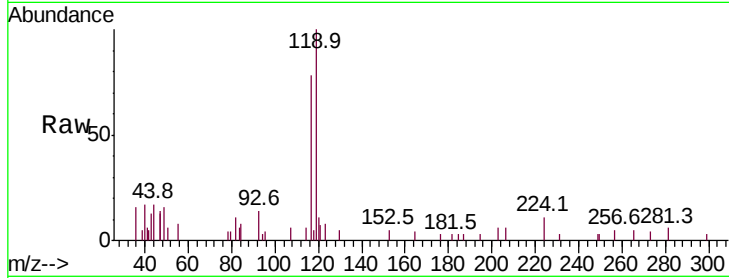


#35
Carbon Tetrachloride
Concen: 0.044 ppbv m
RT: 7.04
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Oct 2021 18:24

Tot Ion:1
Ion Rati
117 100
119 127.
121 9.

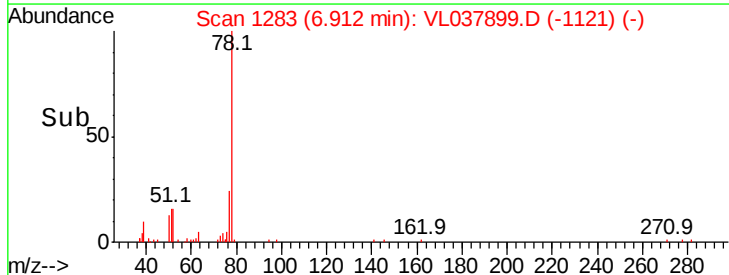
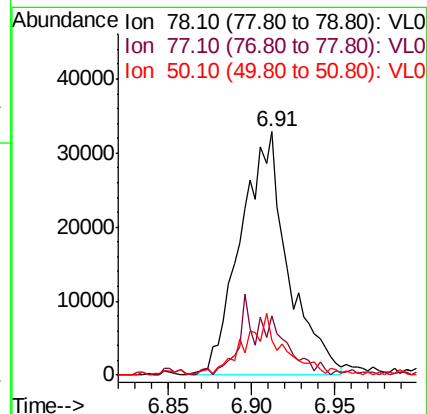
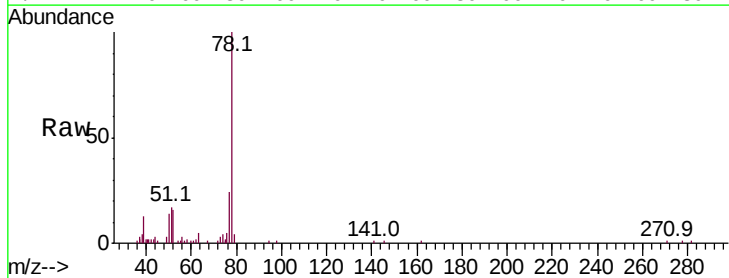
Manual Integrations
APPROVED

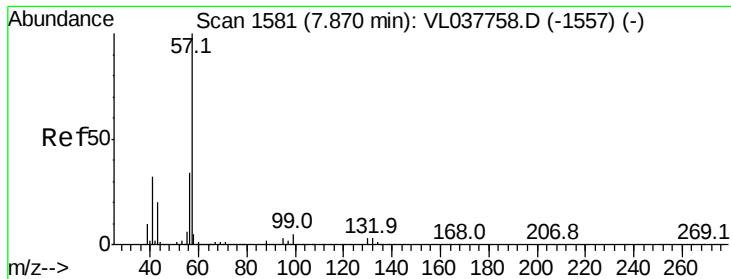
Reviewed By :Semsettin Yesilyurt 10/27/2021
Supervised By :Mahesh Dadoda 10/27/2021



#36
Benzene
Concen: 0.206 ppbv m
RT: 6.91 min Scan# 1283
Delta R.T. 0.02 min
Lab File: VL037899.D
Acq: 25 Oct 2021 18:24

Tgt Ion: 78 Resp: 65138
Ion Ratio Lower Upper
78 100
77 24.5 18.8 28.2
50 14.2 14.7 22.1#





#44

2,2,4-Trimethylpentane

Concen: 0.121 ppbv m

RT: 7.89 Instrument:

Delta R.T. MSVOA_L

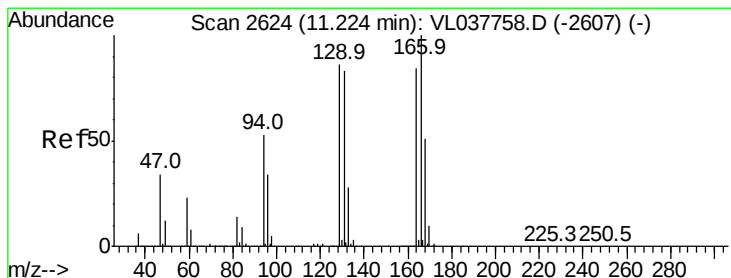
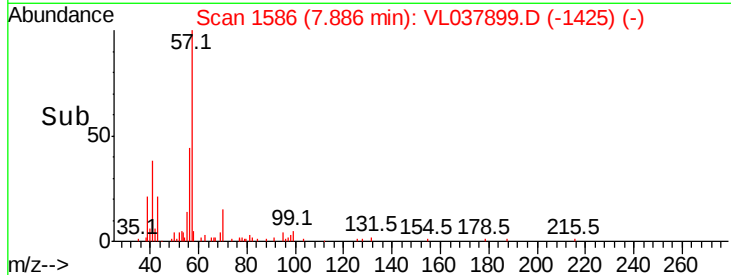
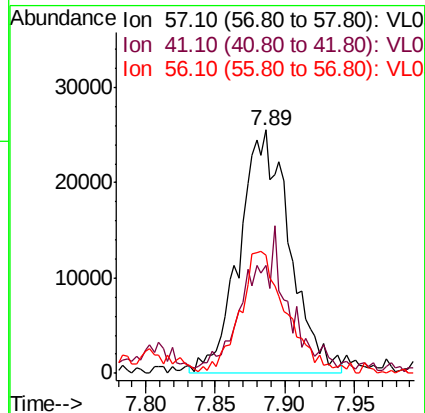
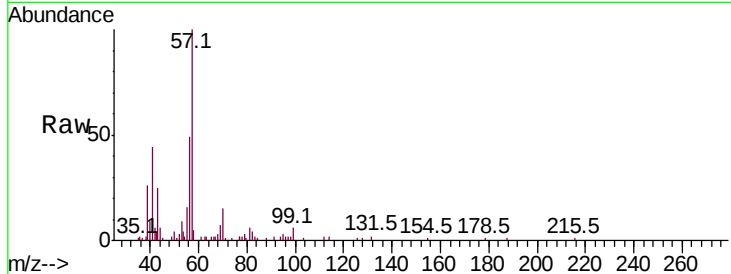
Lab File: ClientSampleId:

Acq: 25 Oct 2021 18:24 SVE-EFFLUENTDUP

Tot Ion:
Ion Ratio
57 100
41 0.
56 46.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021
Supervised By :Mahesh Dadoda 10/27/2021



#52

Tetrachloroethene

Concen: 0.410 ppbv m

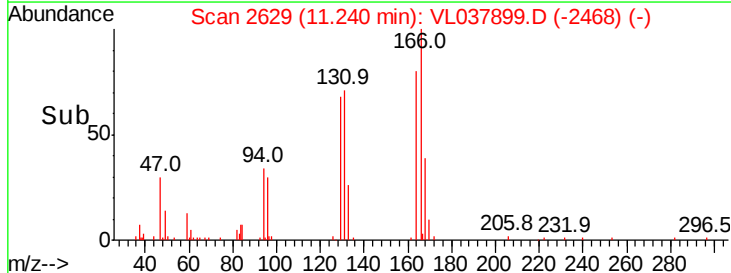
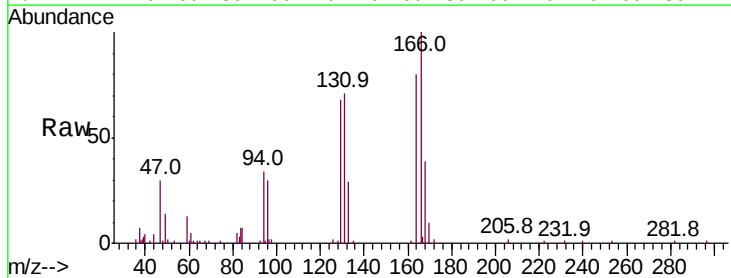
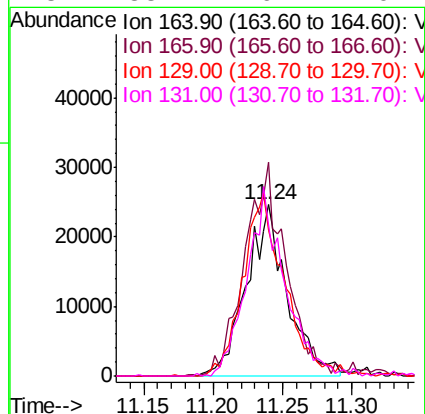
RT: 11.24 min Scan# 2629

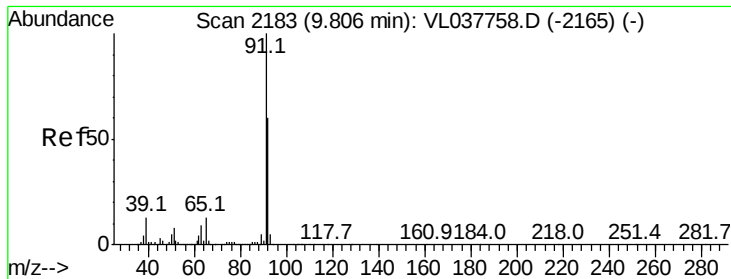
Delta R.T. 0.02 min

Lab File: VL037899.D

Acq: 25 Oct 2021 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	50565		
166	124.6		95.4	143.2
129	84.9		82.2	123.4
131	88.2		79.4	119.2





#53

Toluene

Concen: 2.297 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId:

Acq: 25 Oct 2021 18:24 SVE-EFFLUENTDUP

Tot Ion:

Ion Ratio

91 100

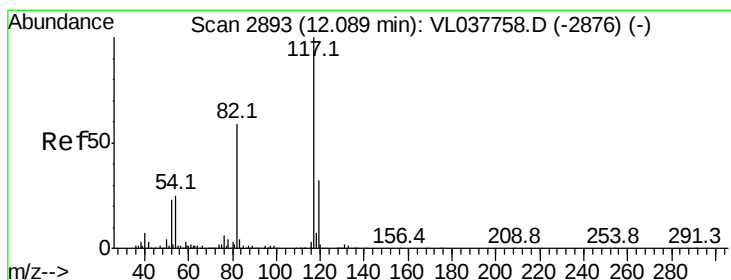
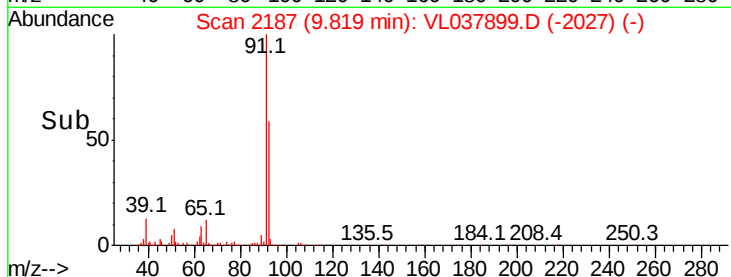
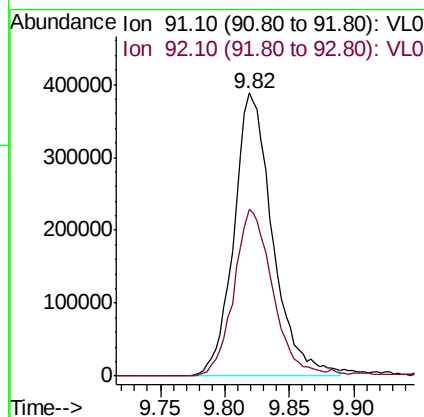
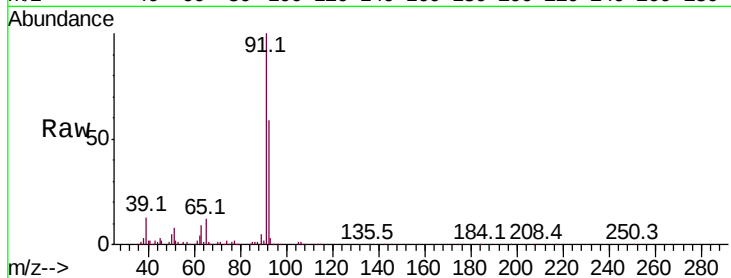
92 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021

Supervised By :Mahesh Dadoda 10/27/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL037899.D

Acq: 25 Oct 2021 18:24

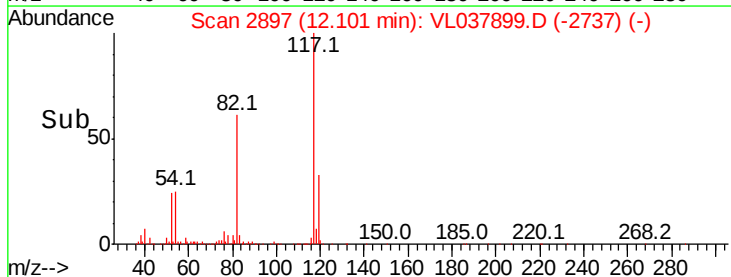
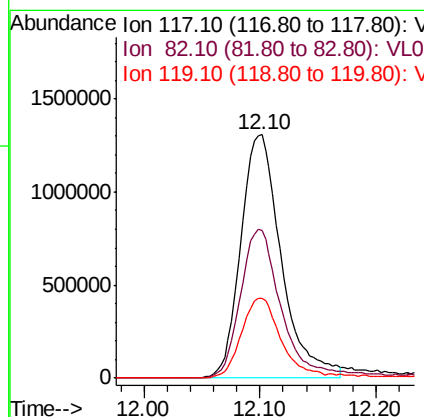
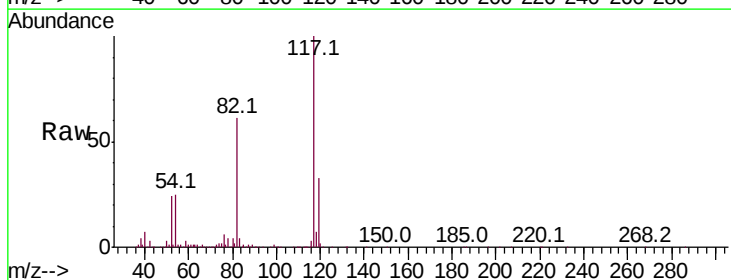
Tgt Ion:117 Resp: 3183704

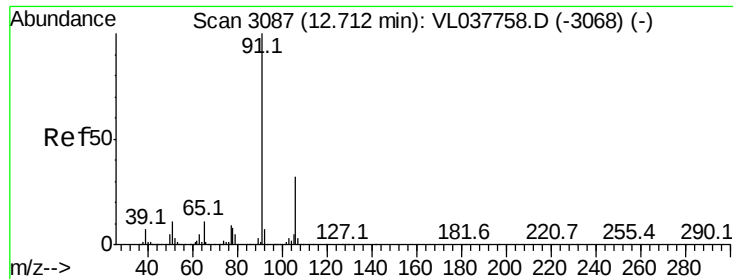
Ion Ratio Lower Upper

117 100

82 65.1 52.2 78.2

119 34.3 26.0 39.0



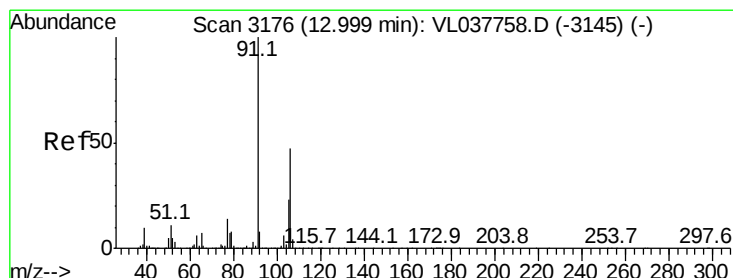
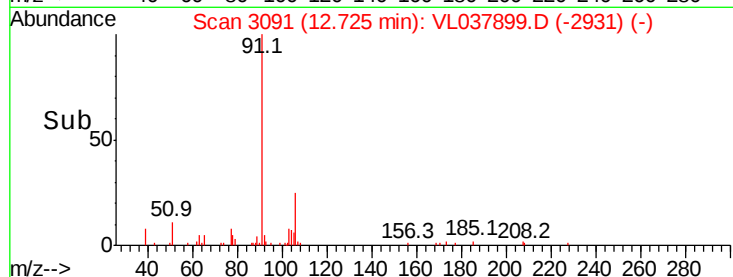
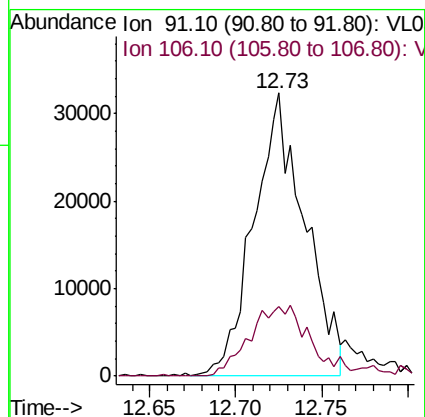
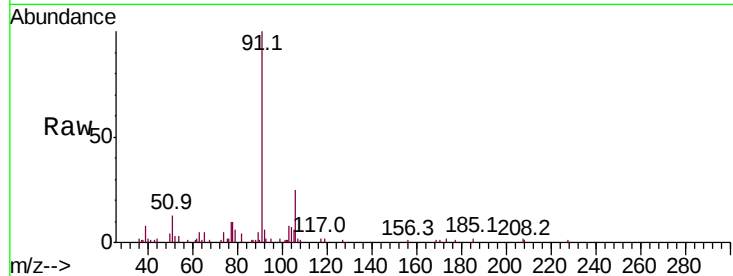


#58
Ethyl Benzene
Concen: 0.155 ppbv
RT: 12.73 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFFLUENTDUP
Acq: 25 Oct 2021 18:24

Tot Ion:
Ion Ratio
91 100
106 24.

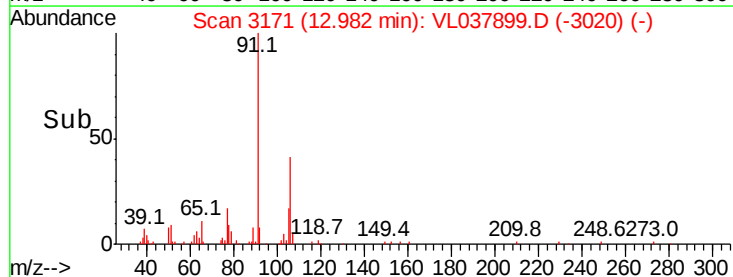
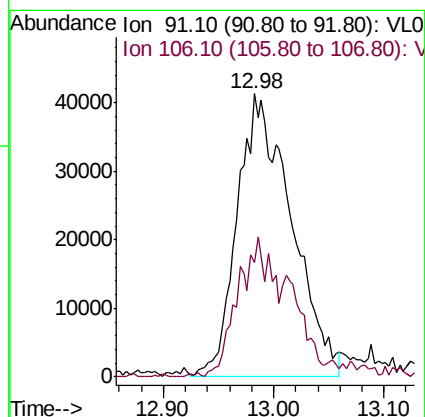
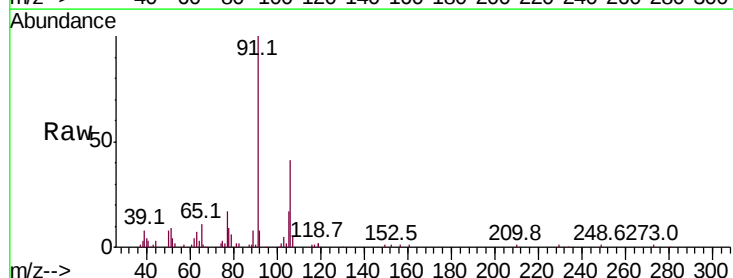
Manual Integrations
APPROVED

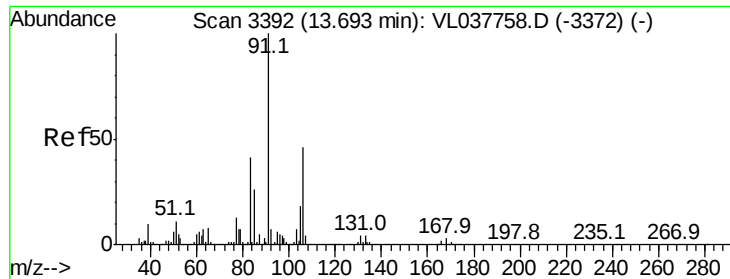
Reviewed By :Semsettin Yesilyurt 10/27/2021
Supervised By :Mahesh Dadoda 10/27/2021



#59
m/p-Xylene
Concen: 0.385 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.02 min
Lab File: VL037899.D
Acq: 25 Oct 2021 18:24

Tgt Ion: 91 Resp: 141117
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#



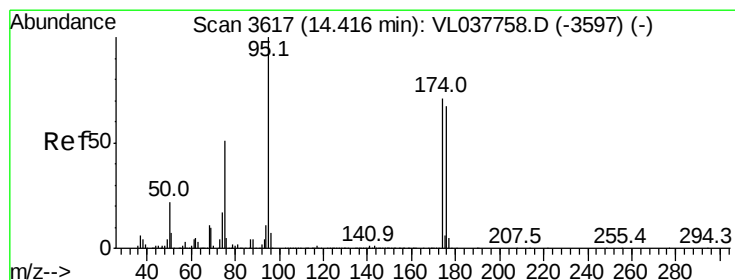
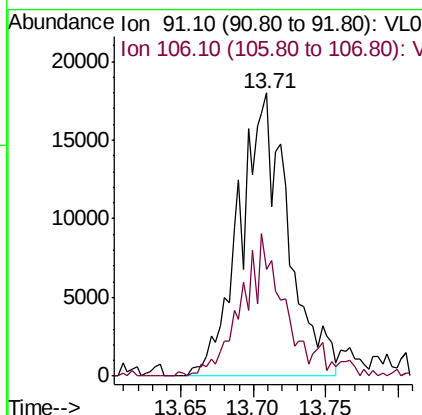
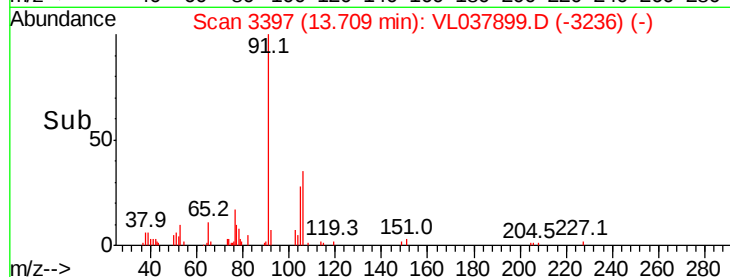
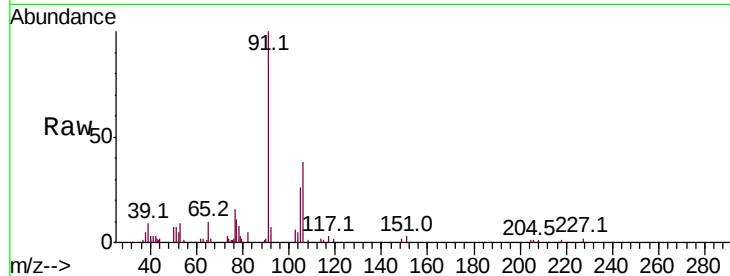


#60
o-Xylene
Concen: 0.121 ppbv m
RT: 13.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 18:24 SVE-EFFLUENTDUP

Tot Ion:
Ion Ratio
91 100
106 40.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/27/2021
Supervised By :Mahesh Dadoda 10/27/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 10.208 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. 0.01 min
Lab File: VL037899.D
Acq: 25 Oct 2021 18:24

Tgt Ion: 95 Resp: 2272710
Ion Ratio Lower Upper
95 100
174 74.7 57.8 86.6
175 5.4 4.7 7.1

