

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL120721\
 Data File : VL038147.D
 Acq On : 7 Dec 2021 12:53
 Operator : SY/AP
 Sample : M4827-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/07/2021
 Supervised By :Semsettin Yesilyurt 12/08/2021

Quant Time: Dec 07 15:06:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	914865	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2431707	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2106946	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1665977	10.96	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	45484	0.301	ppbv	92
3) Chlorodifluoromethane	2.99	51	47757	0.249	ppbv	97
4) Chloromethane	3.14	50	30806	0.471	ppbv	97
9) Propene	3.02	41	30911	0.437	ppbv	84
11) Trichlorofluoromethane	3.95	101	33893m	0.236	ppbv	
13) Ethanol	3.61	45	148915m	21.778	ppbv	
15) Acetone	3.85	43	456669	5.757	ppbv	99
19) Isopropyl Alcohol	4.00	45	40055m	0.699	ppbv	
20) Methylene Chloride	4.34	84	1319681	29.703	ppbv	98
26) Hexane	5.68	57	708552	5.576	ppbv #	44
34) 2-Butanone	5.24	43	14553	0.148	ppbv	92
35) Carbon Tetrachloride	7.01	117	10499m	0.061	ppbv	
36) Benzene	6.88	78	40158m	0.166	ppbv	
52) Tetrachloroethene	11.21	164	18570	0.207	ppbv #	82
53) Toluene	9.79	91	53744	0.193	ppbv	99
58) Ethyl Benzene	12.70	91	21352m	0.061	ppbv	
59) m/p-Xylene	12.95	91	60286m	0.206	ppbv	
60) o-Xylene	13.68	91	27256m	0.100	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL120721\
Data File : VL038147.D
Acq On : 7 Dec 2021 12:53
Operator : SY/AP
Sample : M4827-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
APPROVED

Quant Time: Dec 07 15:06:45 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821

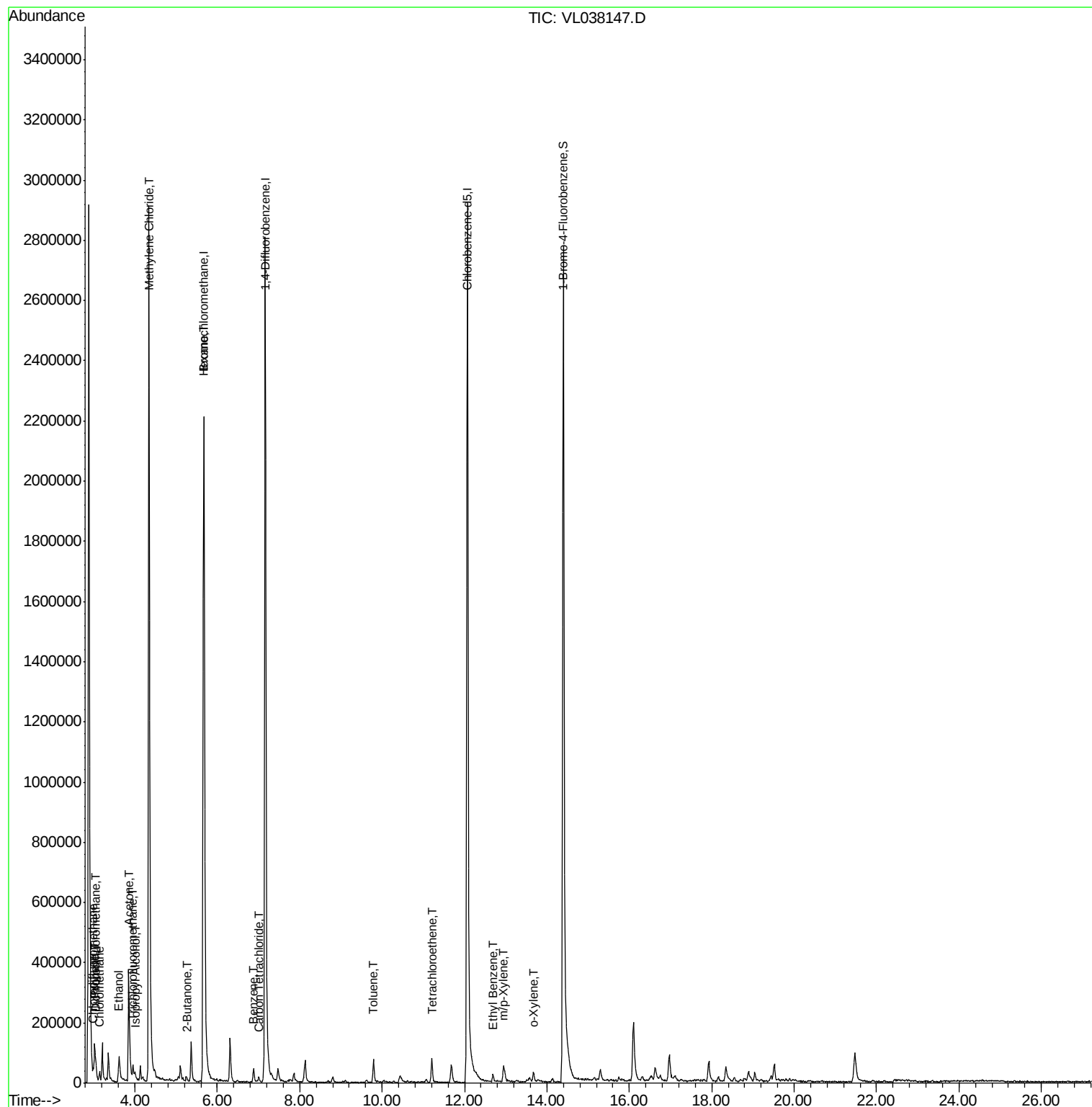
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

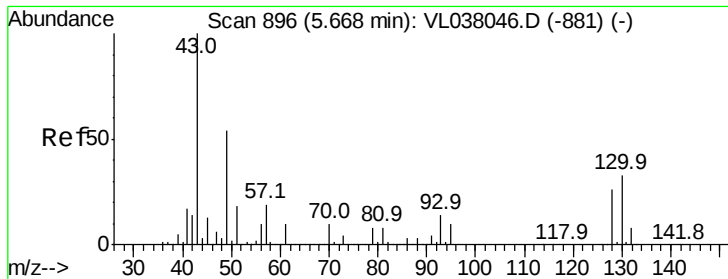
QLast Update : Thu Nov 18 13:16:09 2021

Response via : Initial Calibration

Reviewed By :Amit Patel 12/07/2021

Supervised By :Semsettin Yesilyurt 12/08/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-1

Acq: 7 Dec 2021 12:55

Tot Ion:

Ion Ratio

49 100

128 47.

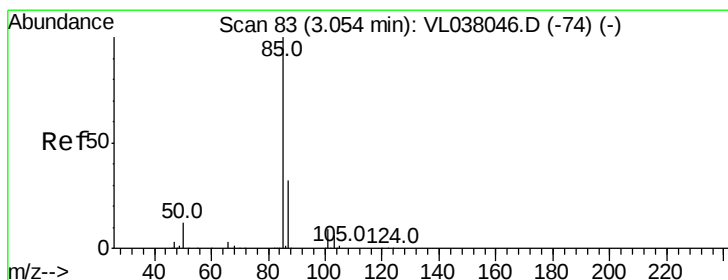
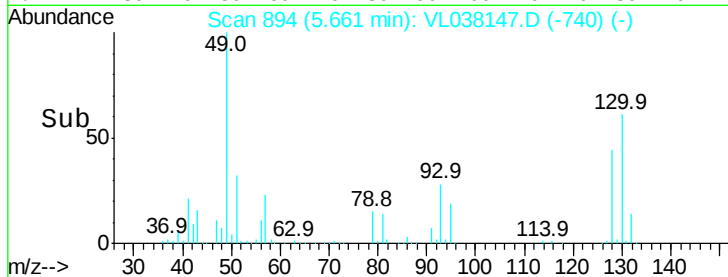
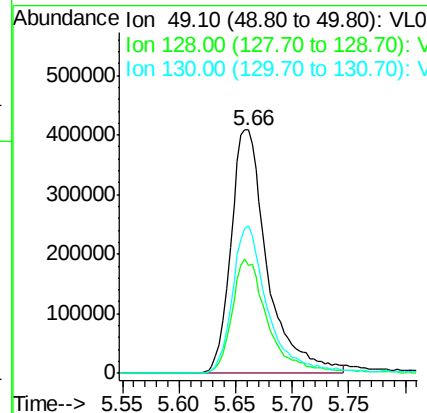
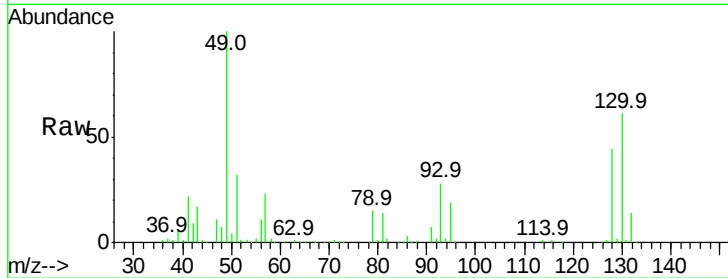
130 60.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/07/2021

Supervised By :Semsettin Yesilyurt 12/08/2021



#2

Dichlorodifluoromethane

Concen: 0.301 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038147.D

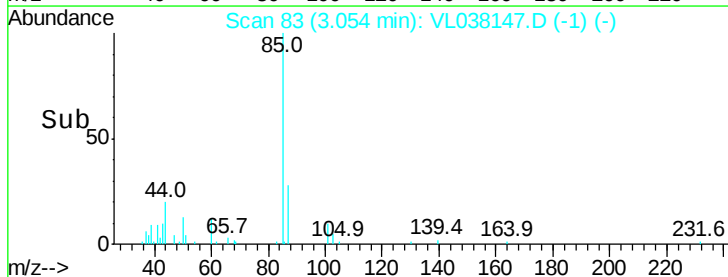
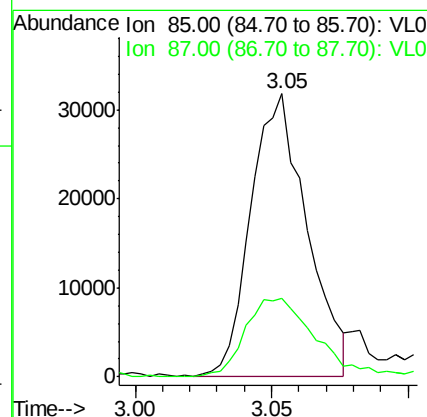
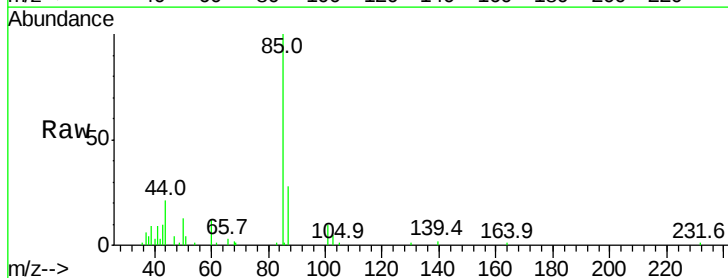
Acq: 7 Dec 2021 12:53

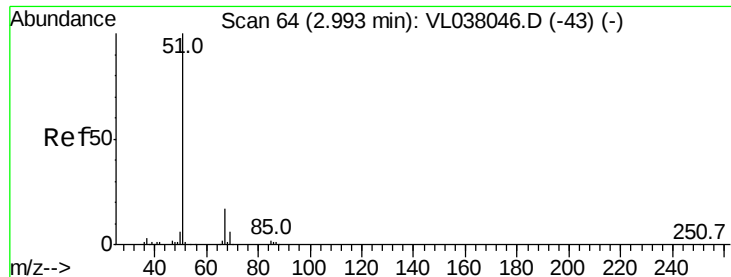
Tgt Ion: 85 Resp: 45484

Ion Ratio Lower Upper

85 100

87 27.8 25.8 38.6



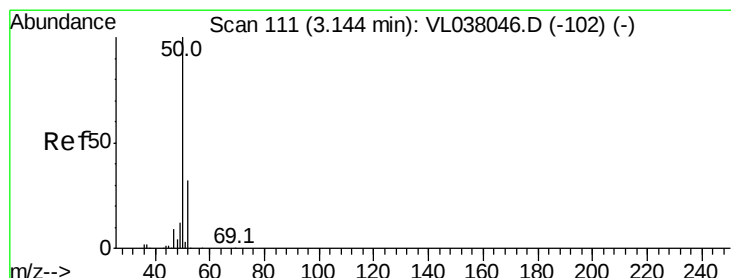
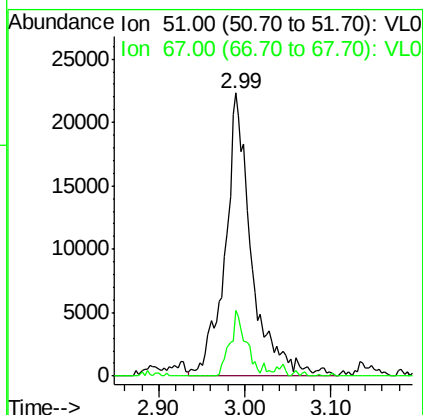
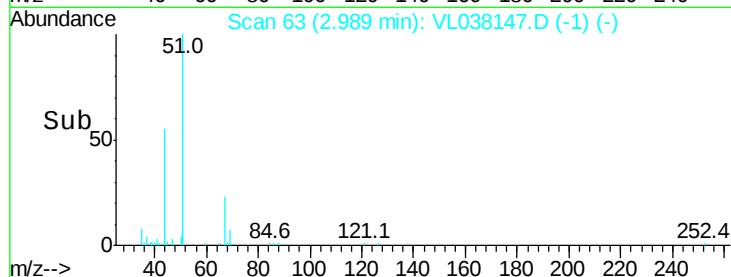
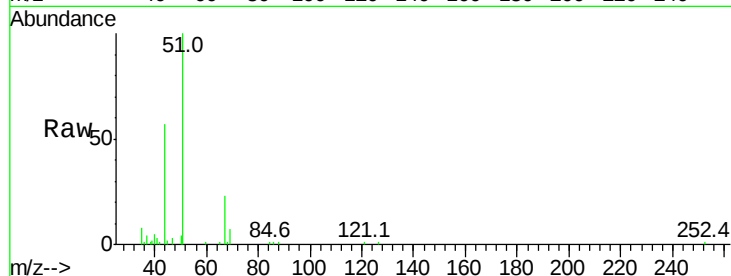


#3
Chlorodifluoromethane
Concen: 0.249 ppbv
RT: 2.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion:
Ion Ratio
51 100
67 16.

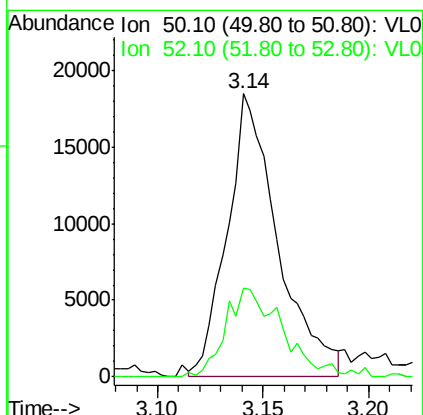
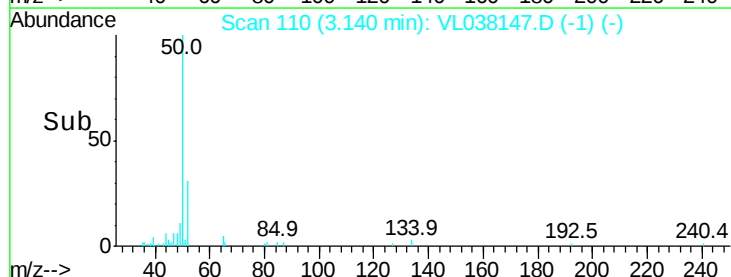
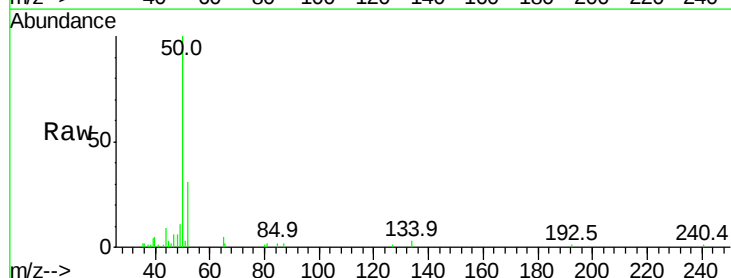
Manual Integrations
APPROVED

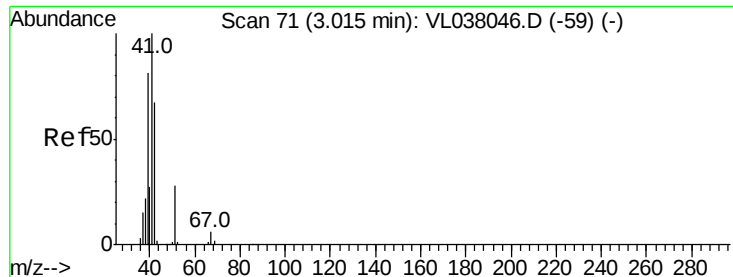
Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#4
Chloromethane
Concen: 0.471 ppbv
RT: 3.14 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion: 50 Resp: 30806
Ion Ratio Lower Upper
50 100
52 30.2 25.4 38.0





#9

Propene

Concen: 0.437 ppbv

RT: 3.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 12:55

Tot Ion:

Ion Ratio

41 100

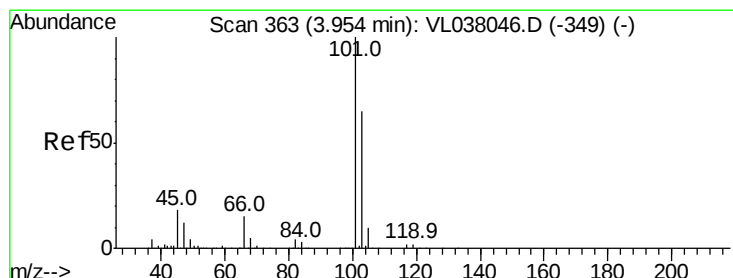
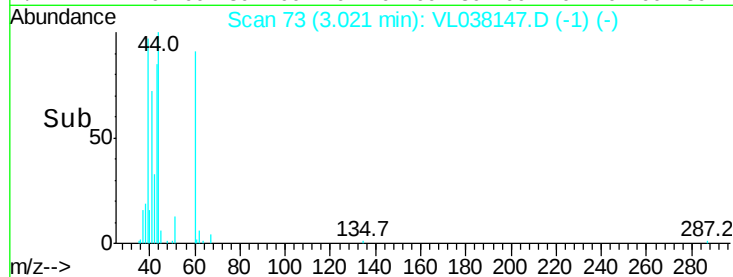
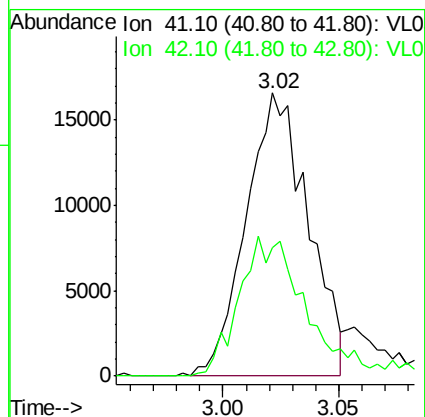
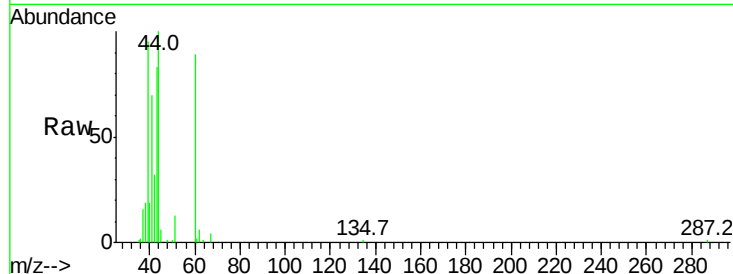
42 54.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/07/2021

Supervised By :Semsettin Yesilyurt 12/08/2021



#11

Trichlorofluoromethane

Concen: 0.236 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL038147.D

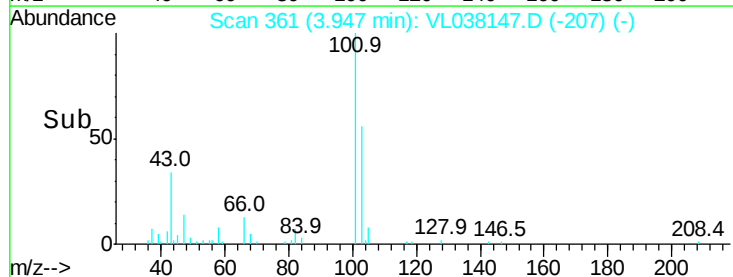
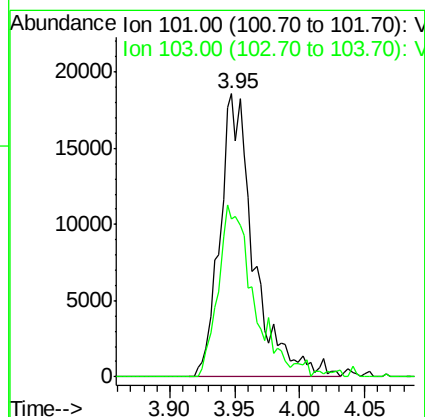
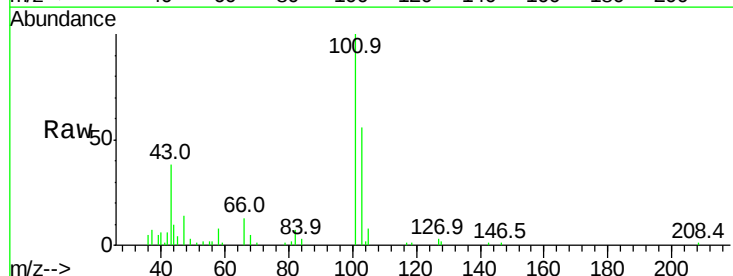
Acq: 7 Dec 2021 12:53

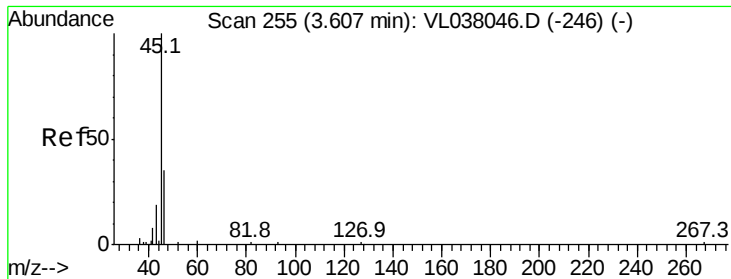
Tgt Ion:101 Resp: 33893

Ion Ratio Lower Upper

101 100

103 55.9 51.8 77.6



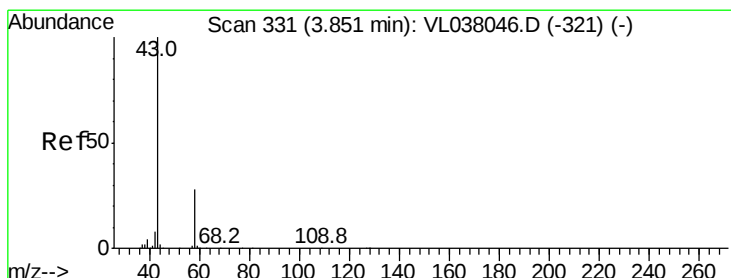
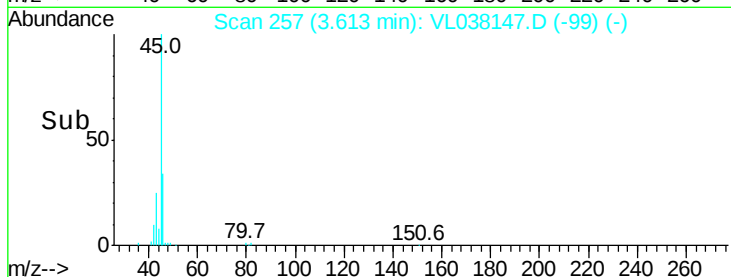
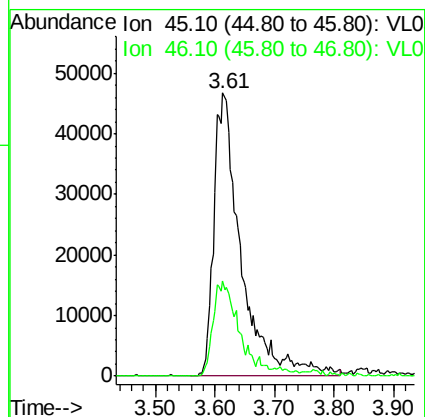
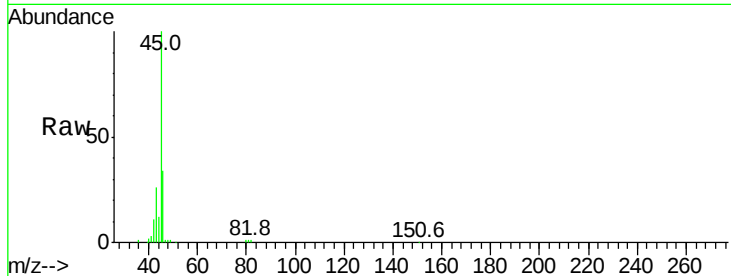


#13
Ethanol
Concen: 21.778 ppbv m
RT: 3.61
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion:
Ion Ratio
45 100
46 0.

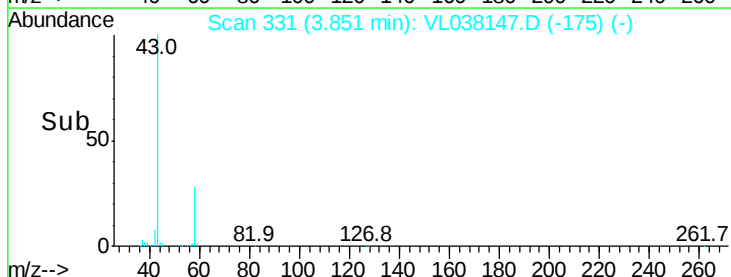
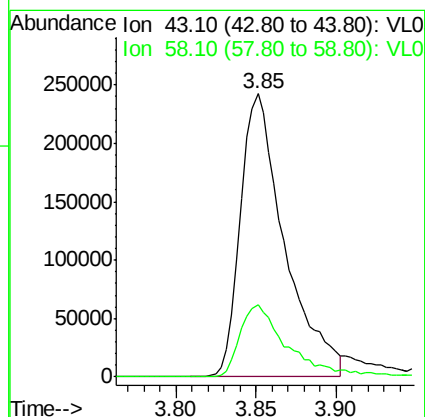
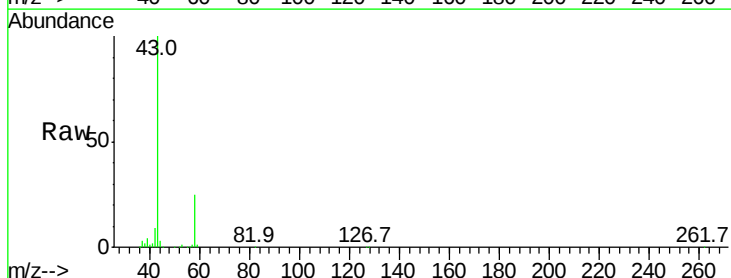
Manual Integrations
APPROVED

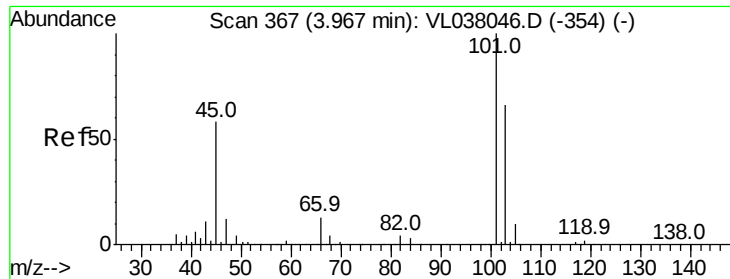
Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#15
Acetone
Concen: 5.757 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion: 43 Resp: 456669
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6





#19

Isopropyl Alcohol

Concen: 0.699 ppbv m

RT: 4.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampled:

Acq: 7 Dec 2021 12:55

Tot Ion:

Ion Ratio

45 100

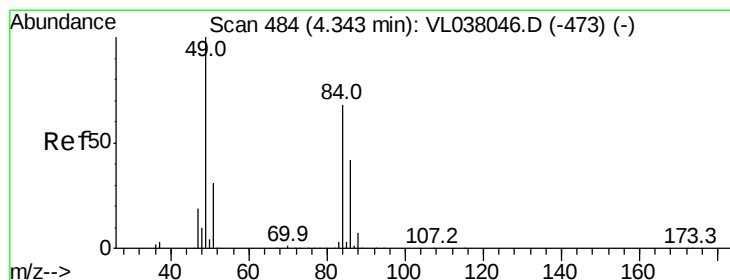
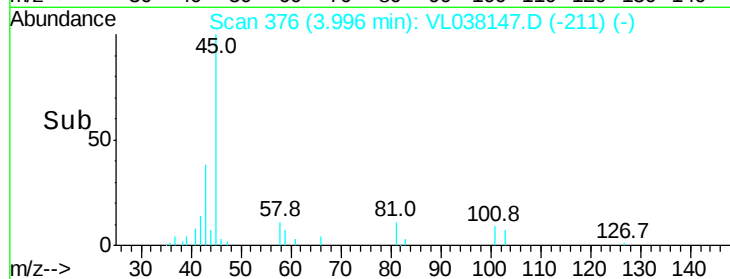
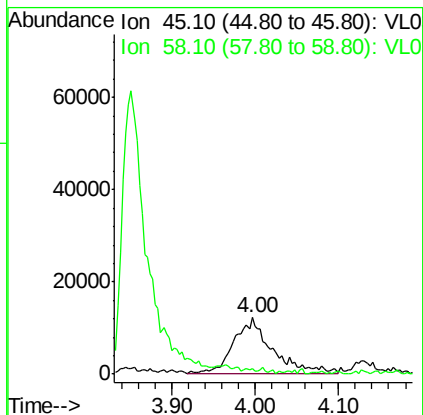
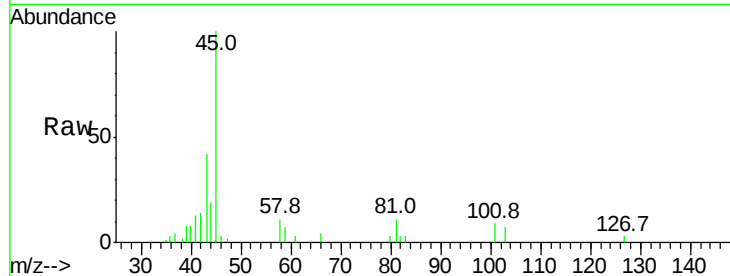
58 0.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/07/2021

Supervised By :Semsettin Yesilyurt 12/08/2021



#20

Methylene Chloride

Concen: 29.703 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL038147.D

Acq: 7 Dec 2021 12:53

Tgt Ion: 84 Resp: 1319681

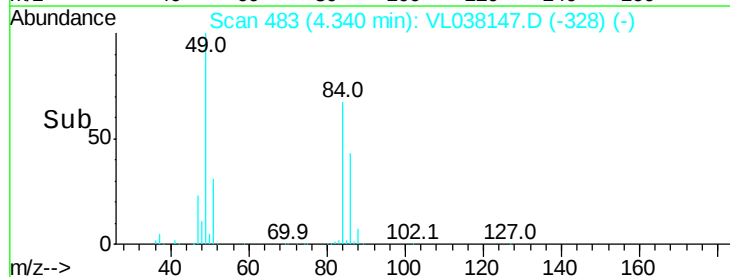
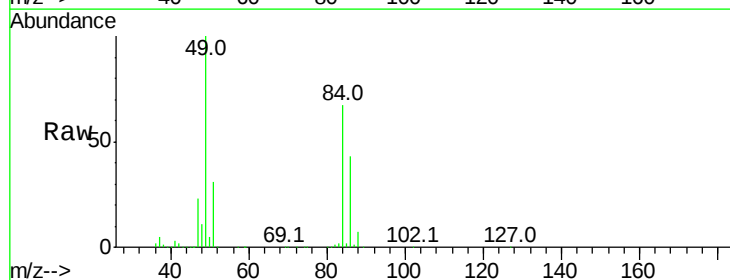
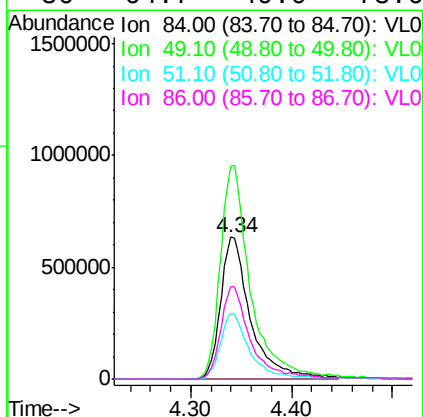
Ion Ratio Lower Upper

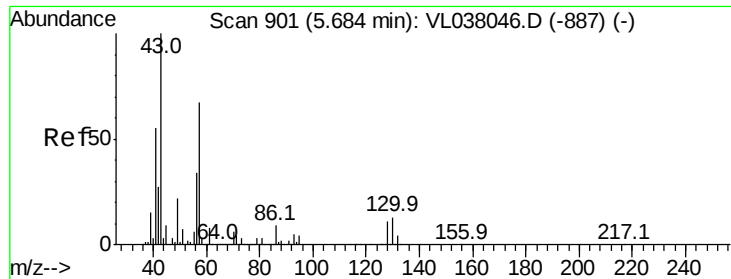
84 100

49 150.2 118.2 177.2

51 46.5 36.8 55.2

86 64.7 49.0 73.6

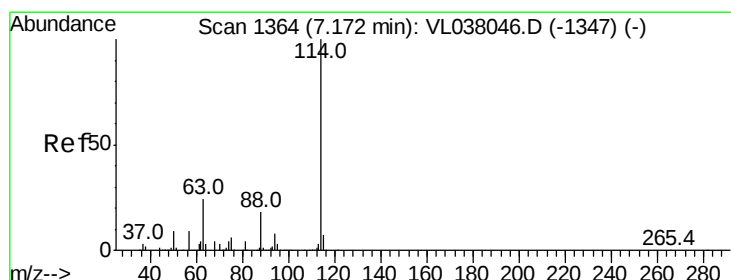
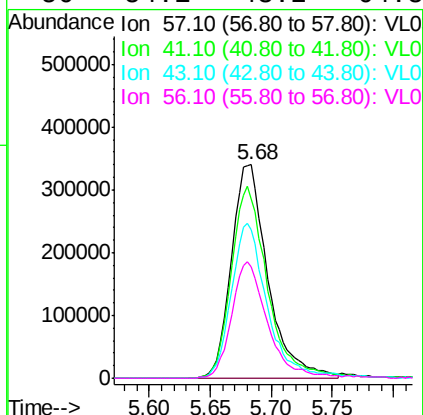
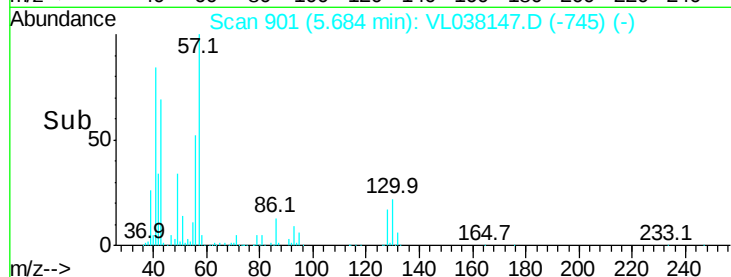
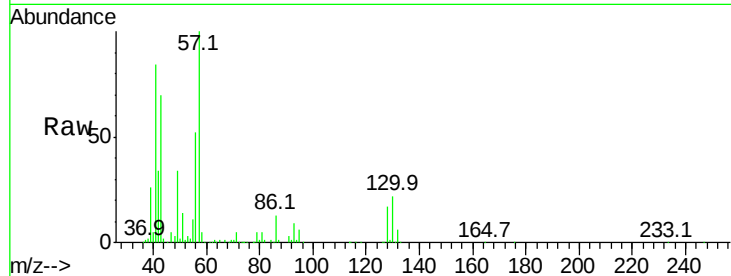




#26
Hexane
Concen: 5.576 ppbv
RT: 5.68
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

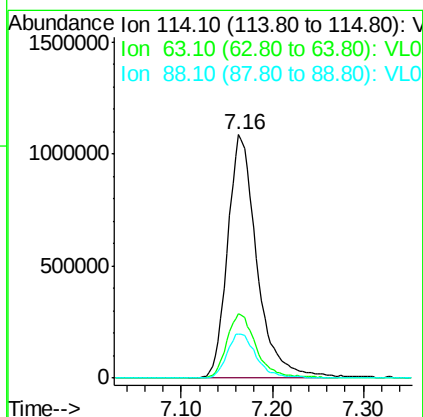
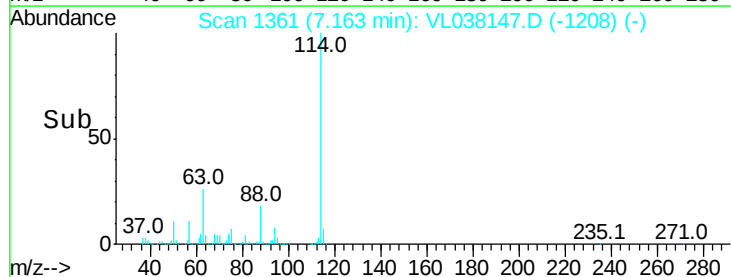
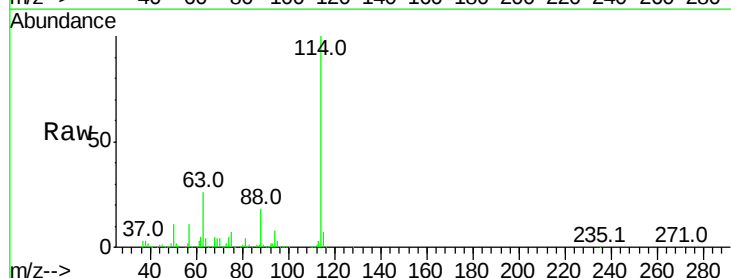
Tot Ion: Manual Integrations
Ion Ratio APPROVED
57 100
41 90.
43 72.
56 54.1 43.2 64.8

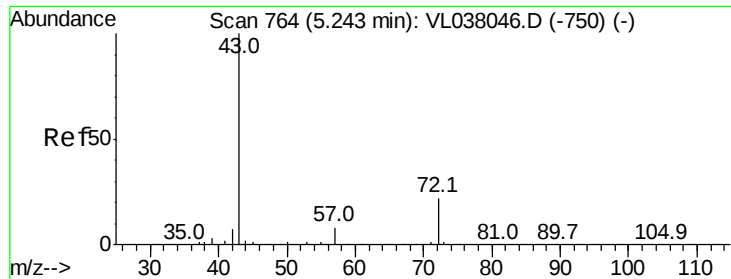
Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion:114 Resp: 2431707
Ion Ratio Lower Upper
114 100
63 26.5 19.7 29.5
88 18.7 14.4 21.6



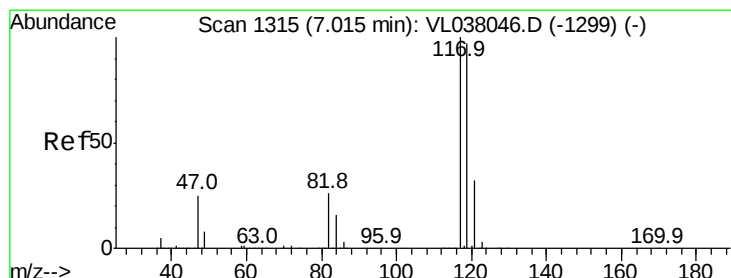
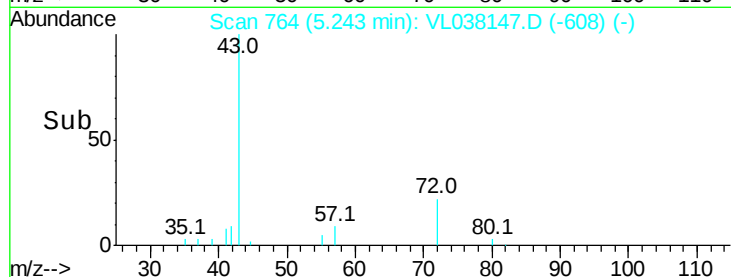
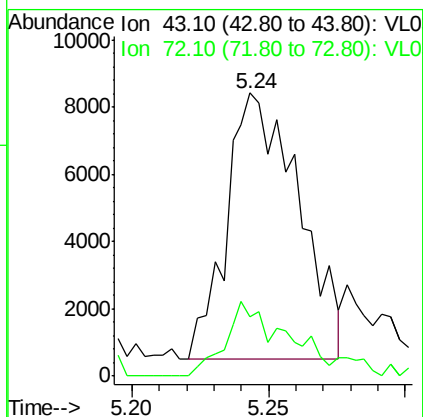
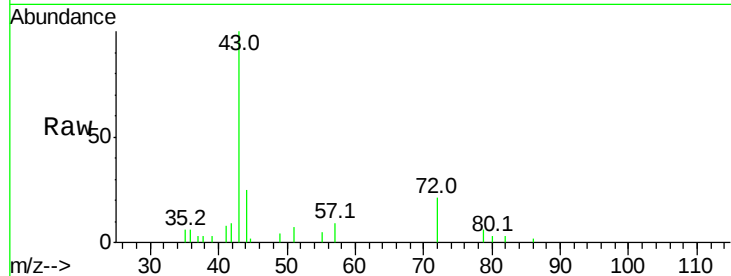


#34
2-Butanone
Concen: 0.148 ppbv
RT: 5.24
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion:
Ion Ratio
43 100
72 27.

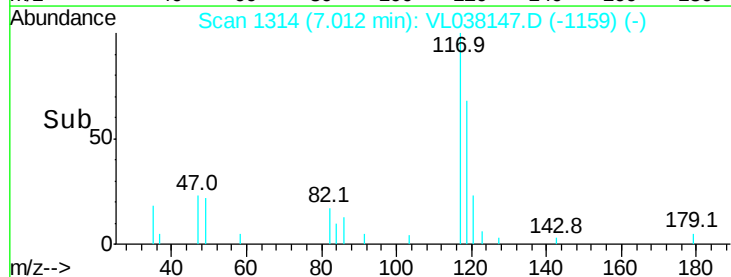
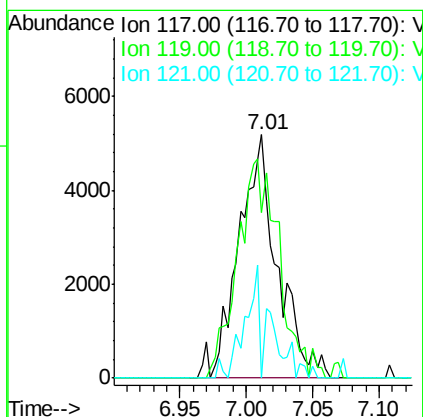
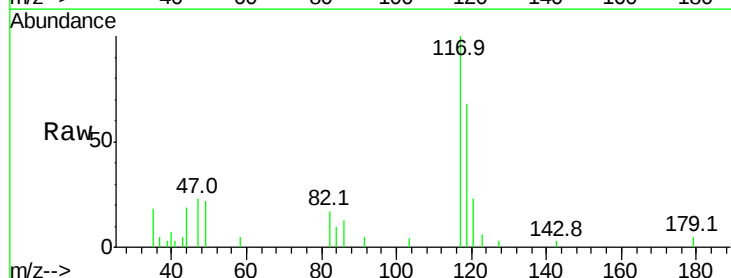
Manual Integrations
APPROVED

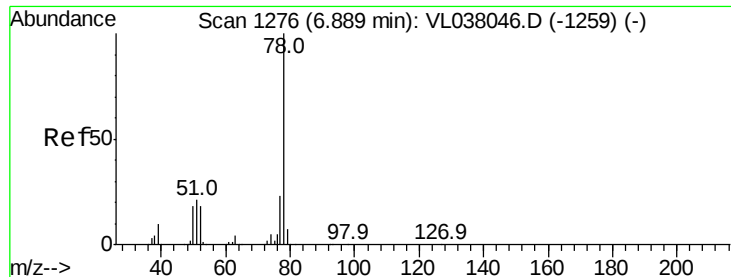
Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion:117 Resp: 10499
Ion Ratio Lower Upper
117 100
119 67.8 77.7 116.5#
121 0.0 25.6 38.4#



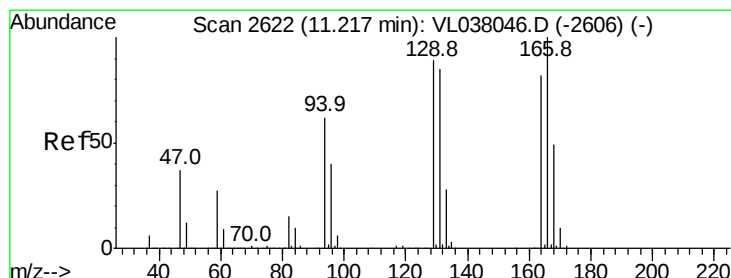
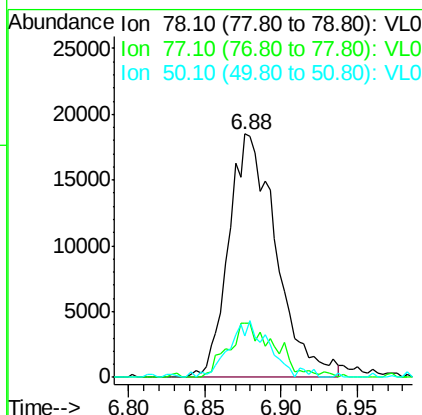
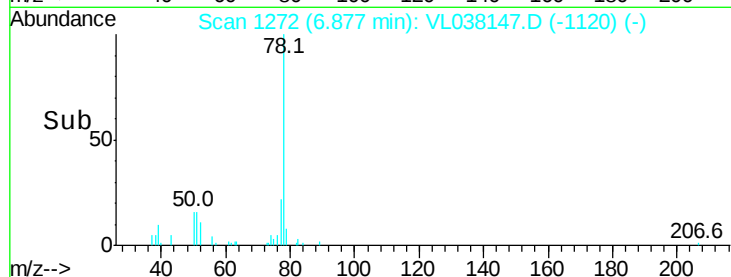
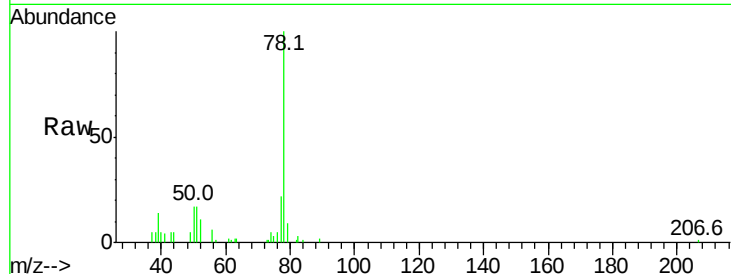


#36
Benzene
Concen: 0.166 ppbv m
RT: 6.88
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion:
Ion Ratio
78 100
77 22.
50 16.

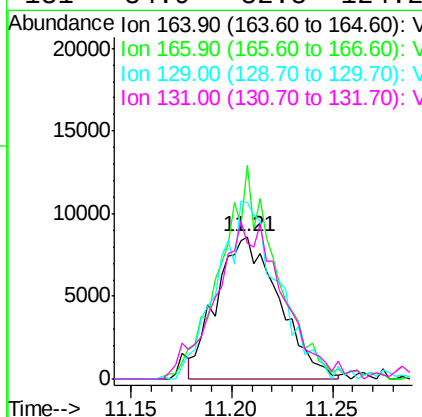
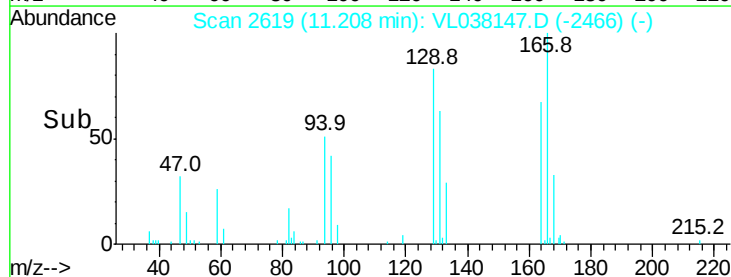
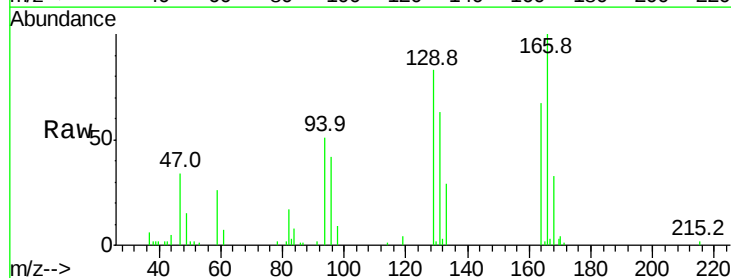
Manual Integrations
APPROVED

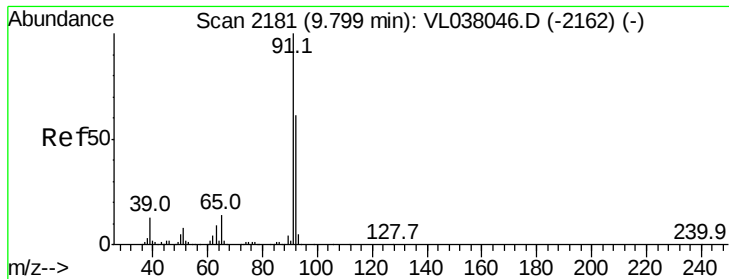
Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#52
Tetrachloroethene
Concen: 0.207 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. -0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion:164 Resp: 18570
Ion Ratio Lower Upper
164 100
166 146.2 97.2 145.8#
129 122.1 86.9 130.3
131 84.9 82.8 124.2



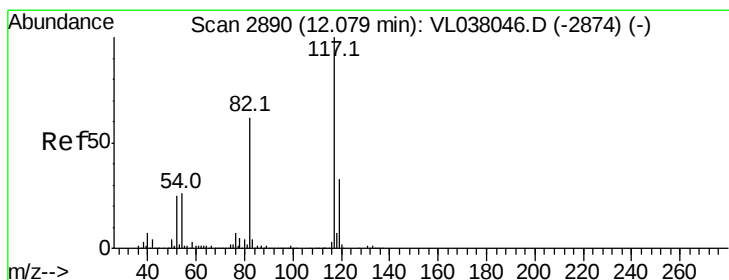
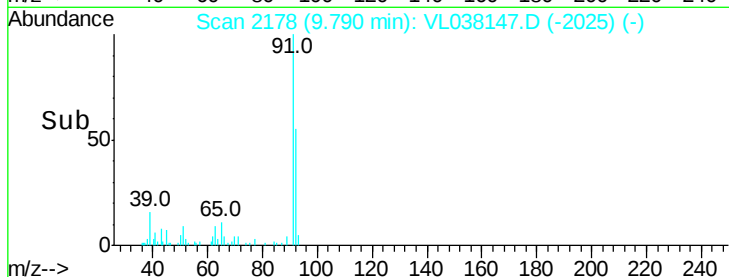
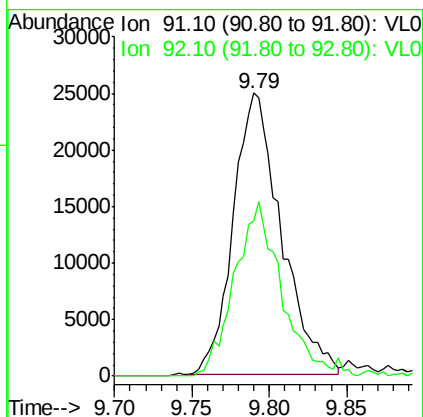
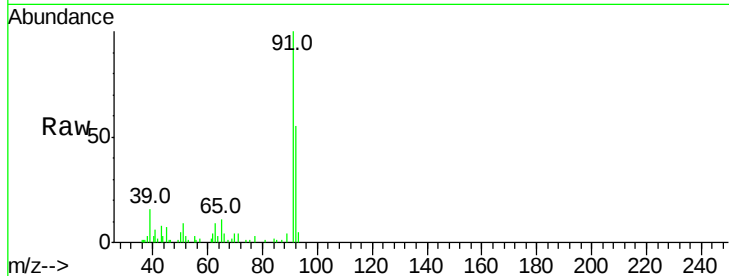


#53
Toluene
Concen: 0.193 ppbv
RT: 9.79
Delta R.T.: MSVOA_L
Lab File: ClientSampled :
Acq: 7 Dec 2021 12:55

Tot Ion:
Ion Ratio
91 100
92 61.

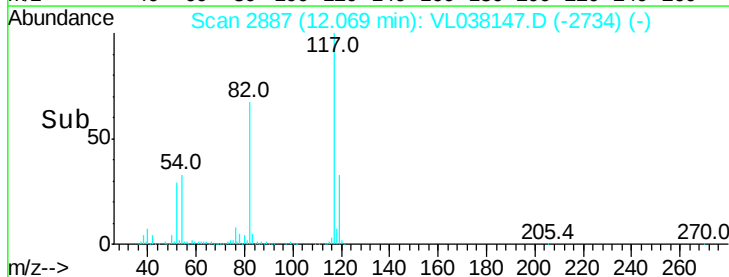
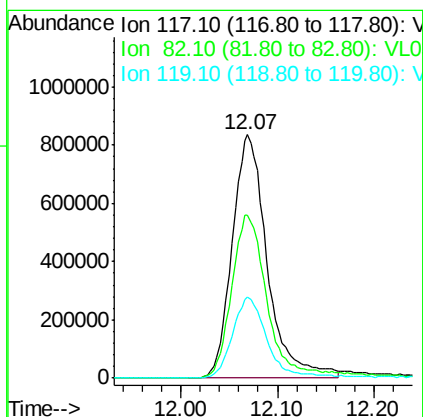
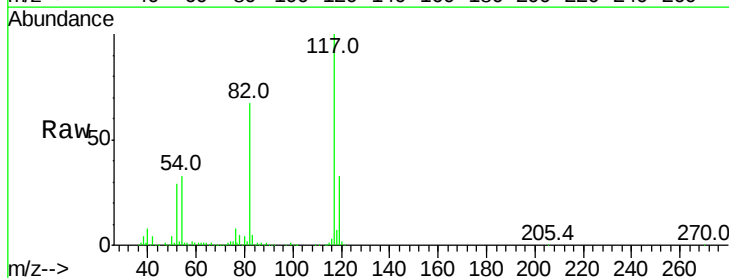
Manual Integrations
APPROVED

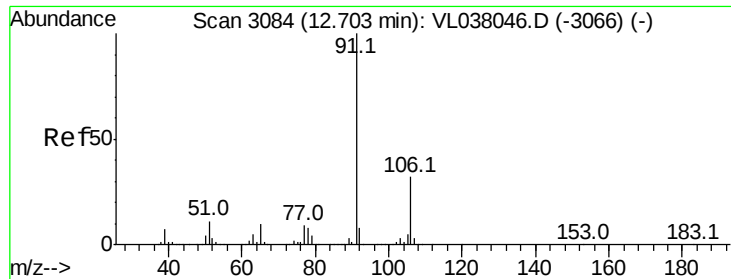
Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T.: -0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion:117 Resp: 2106946
Ion Ratio Lower Upper
117 100
82 70.2 52.8 79.2
119 33.5 26.8 40.2





#58

Ethyl Benzene

Concen: 0.061 ppbv m

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 12:55

Tot Ion:

Ion Ratio

91 100

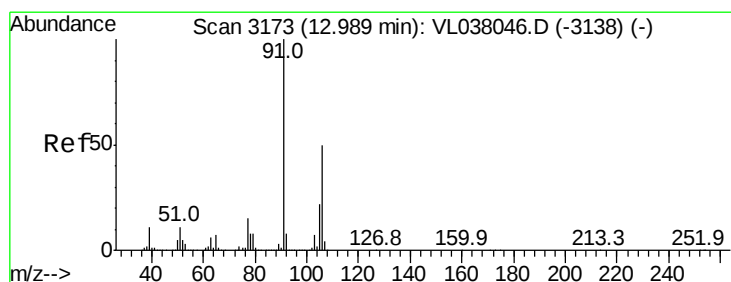
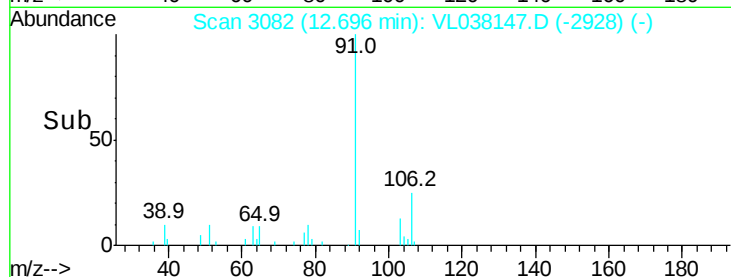
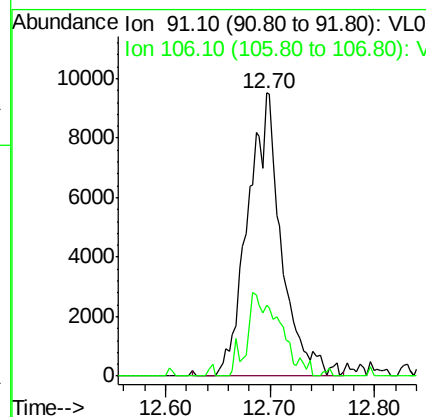
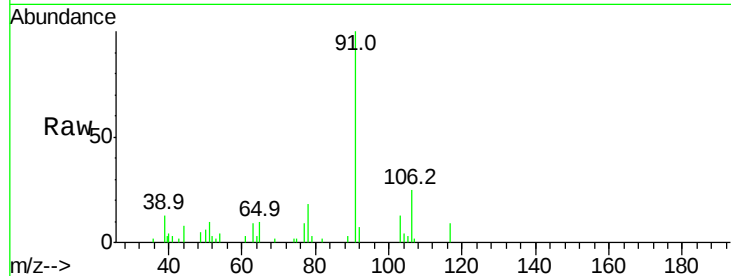
106 25.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/07/2021

Supervised By :Semsettin Yesilyurt 12/08/2021



#59

m/p-Xylene

Concen: 0.206 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.04 min

Lab File: VL038147.D

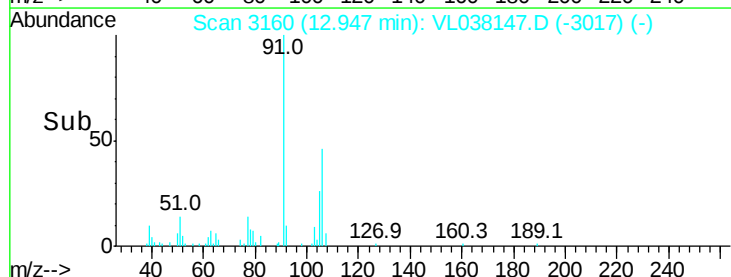
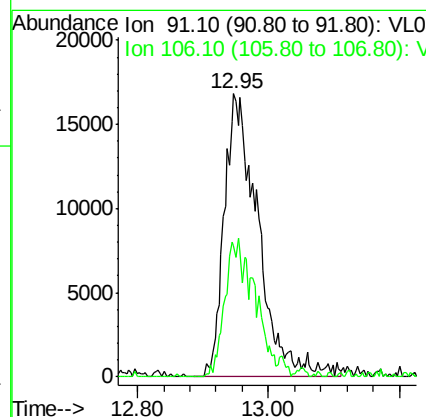
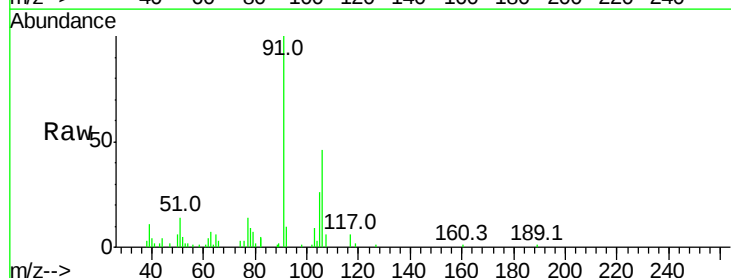
Acq: 7 Dec 2021 12:53

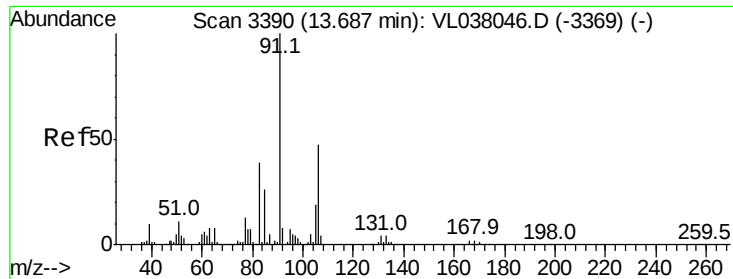
Tgt Ion: 91 Resp: 60286

Ion Ratio Lower Upper

91 100

106 0.0 38.1 57.1#



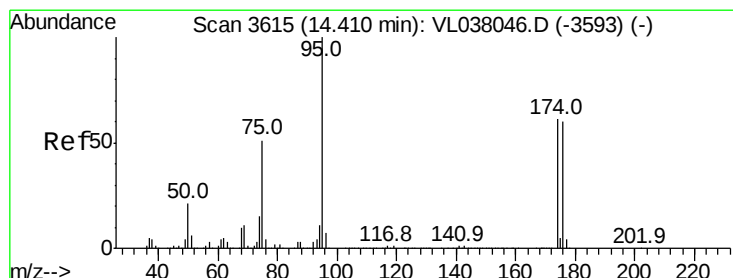
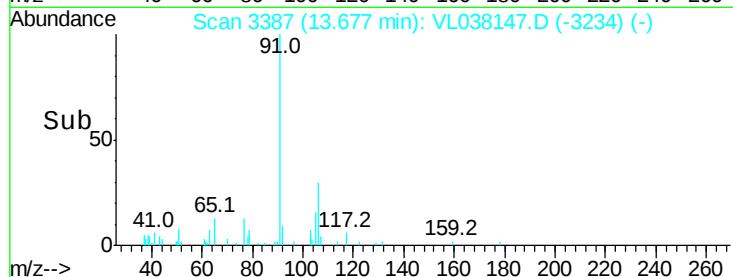
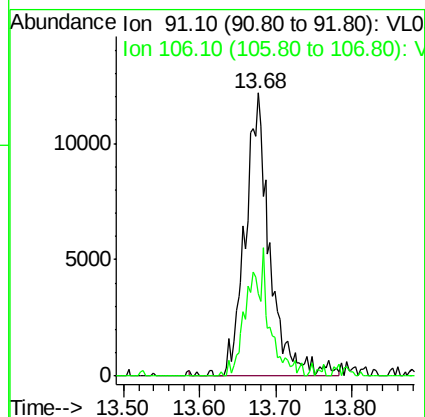
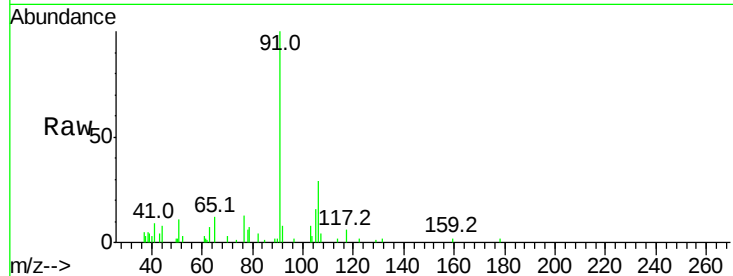


#60
o-Xylene
Concen: 0.100 ppbv m
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion:
Ion Ratio
91 100
106 40.

Manual Integrations
APPROVED

Reviewed By :Amit Patel 12/07/2021
Supervised By :Semsettin Yesilyurt 12/08/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 10.962 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion: 95 Resp: 1665977
Ion Ratio Lower Upper
95 100
174 61.0 53.1 79.7
175 4.3 4.0 6.0

