

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040548.D
 Acq On : 26 Jul 2023 19:51
 Operator : SY/MD
 Sample : 03696-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-16-20230719DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/27/2023
 Supervised By :Mahesh Dadoda 07/27/2023

Quant Time: Jul 27 01:52:05 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.176	49	1062530	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2794971	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.455	117	2512669	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.767	95	2002482	10.070	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.710	85	22039	0.104	ppbv	94
3) Chlorodifluoromethane	2.652	51	31163	0.185	ppbv	98
4) Chloromethane	2.793	50	9681	0.145	ppbv #	69
9) Propene	2.674	41	350934	6.087	ppbv	87
10) Heptane	7.571	43	43552m	0.342	ppbv	
11) Trichlorofluoromethane	3.542	101	13436	0.078	ppbv	95
13) Ethanol	3.218	45	310295	24.736	ppbv	100
15) Acetone	3.449	43	922098	7.539	ppbv	98
17) tert-Butyl alcohol	3.874	59	26745m	0.211	ppbv	
20) Methylene Chloride	3.919	84	140706	2.705	ppbv	83
26) Hexane	5.195	57	140890	1.302	ppbv #	53
29) Chloroform	5.256	83	438934	2.446	ppbv	97
34) 2-Butanone	4.771	43	110537	0.800	ppbv	96
36) Benzene	6.353	78	90707m	0.403	ppbv	
52) Tetrachloroethene	10.594	164	7679m	0.105	ppbv	
53) Toluene	9.208	91	275074	1.126	ppbv	99
58) Ethyl Benzene	12.076	91	69347m	0.220	ppbv	
59) m/p-Xylene	12.333	91	230507	0.819	ppbv	98
60) o-Xylene	13.047	91	83987m	0.313	ppbv	
69) p-Isopropyltoluene	16.989	119	46029	0.107	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.098	105	89267	0.276	ppbv #	66

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

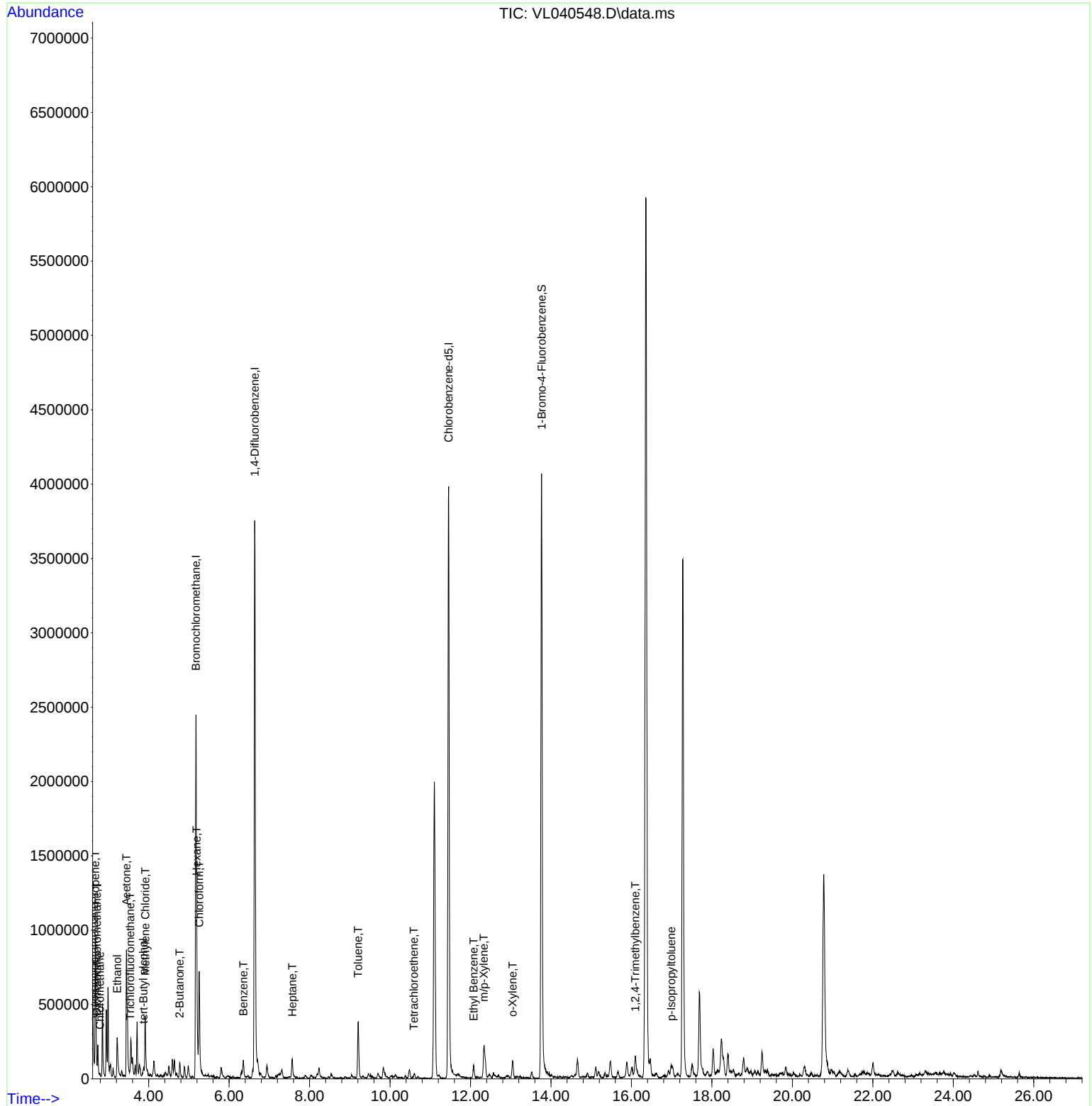
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
Data File : VL040548.D
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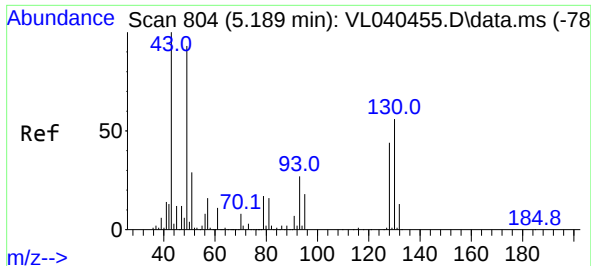
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL

Quant Time: Jul 27 01:52:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration

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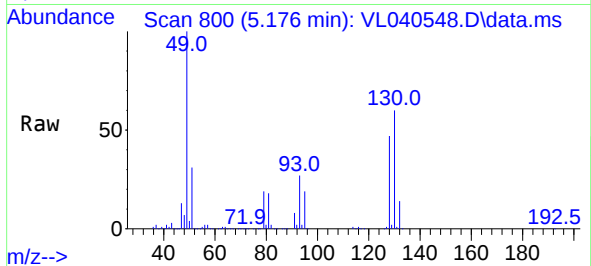
Reviewed By : Semsettin Yesilyurt 07/27/2023
Supervised By : Mahesh Dadoda 07/27/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

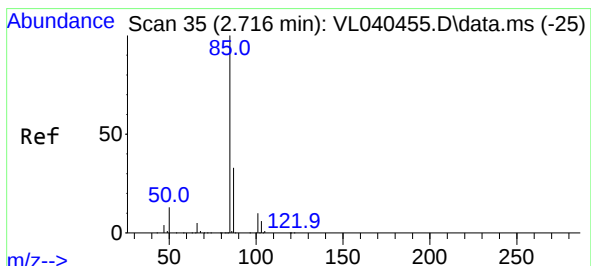
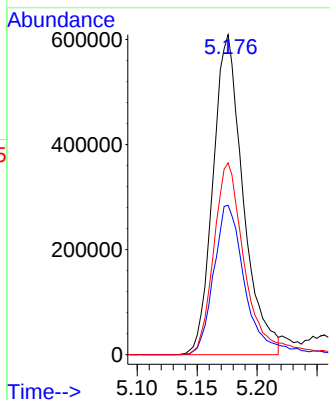
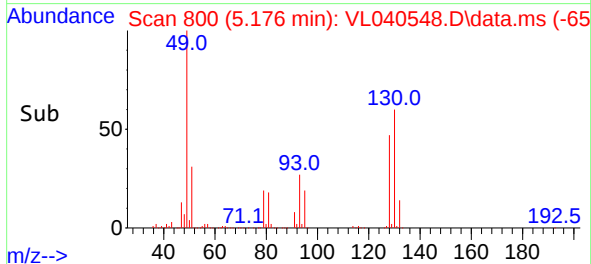
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL



Tgt Ion: 49 Resp: 1062530
Ion Ratio Lower Upper
49 100
128 50.5 25.1 75.4
130 64.1 31.6 94.7

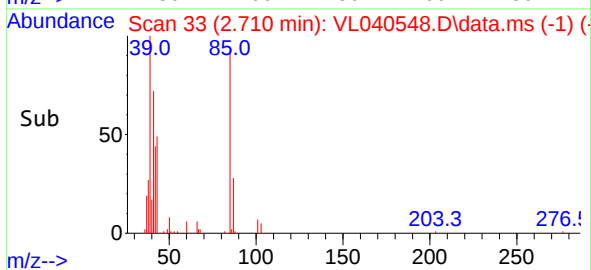
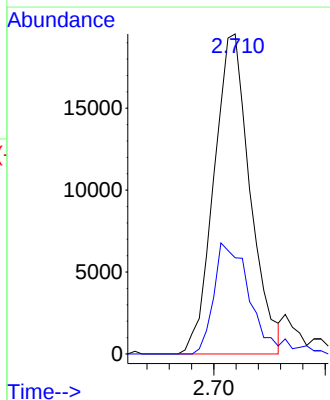
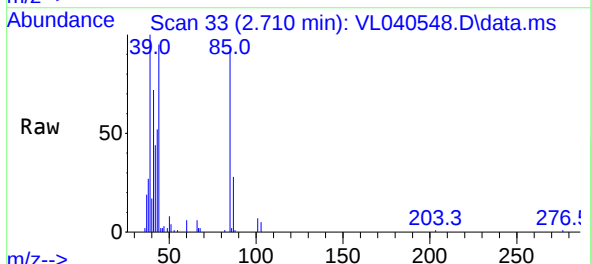
Manual Integrations
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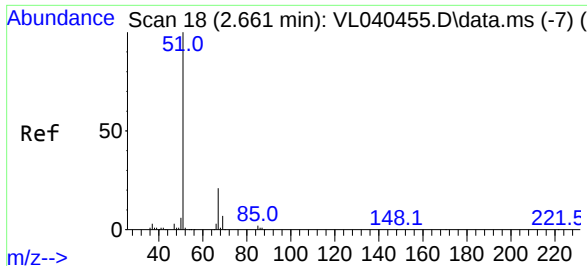
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#2
Dichlorodifluoromethane
Concen: 0.104 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.029 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

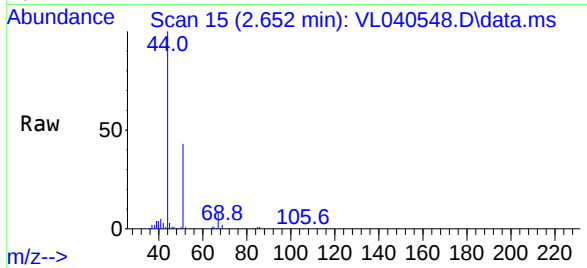
Tgt Ion: 85 Resp: 22039
Ion Ratio Lower Upper
85 100
87 30.0 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.185 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.032 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

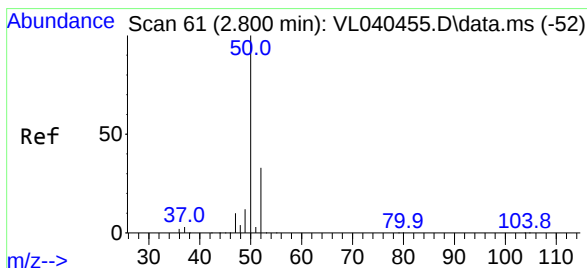
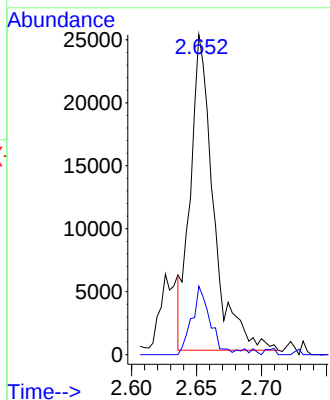
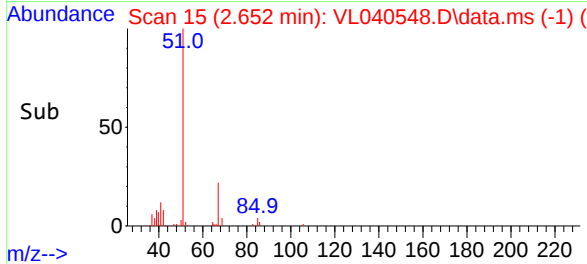
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL



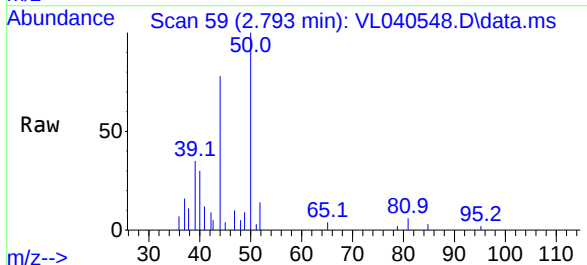
Tgt Ion: 51 Resp: 3116
Ion Ratio Lower Upper
51 100
67 19.0 14.6 21.8

Manual Integrations
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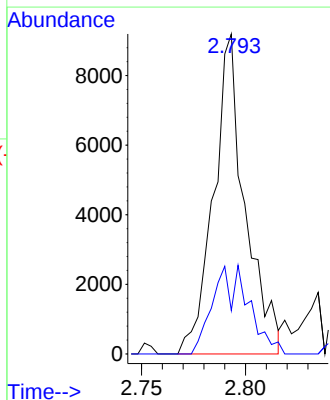
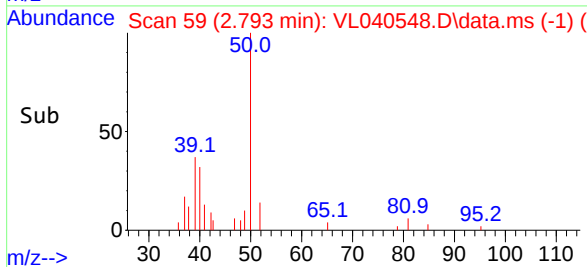
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



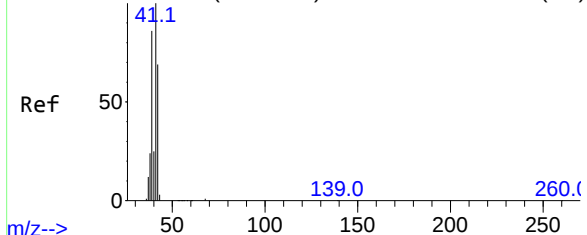
#4
Chloromethane
Concen: 0.145 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.029 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51



Tgt Ion: 50 Resp: 9681
Ion Ratio Lower Upper
50 100
52 13.6 24.4 36.6#



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 6.087 ppbv

RT: 2.674 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL040548.D

Acq: 26 Jul 2023 19:51

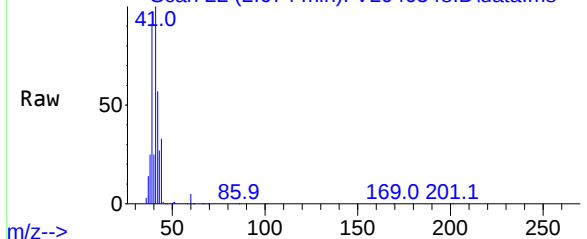
Instrument :

MSVOA_L

ClientSampleId :

SV-16-20230719DL

Abundance Scan 22 (2.674 min): VL040548.D\data.ms



Tgt Ion: 41 Resp: 350934

Ion Ratio Lower Upper

41 100

42 58.3 55.0 82.6

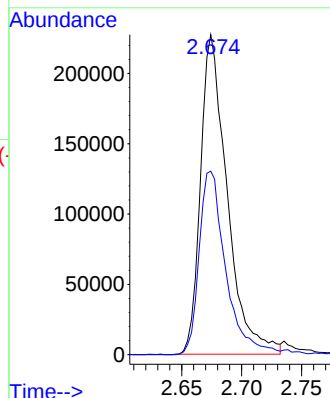
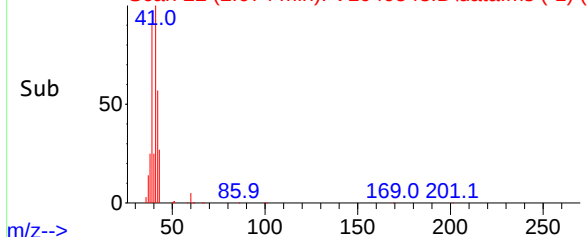
Manual Integrations

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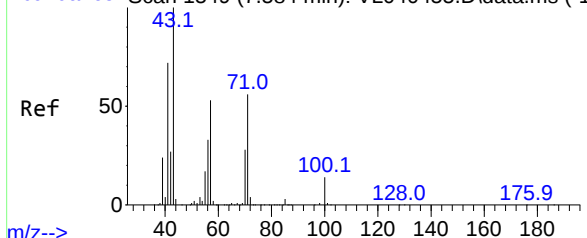
Reviewed By :Semsettin Yesilyurt 07/27/2023

Supervised By :Mahesh Dadoda 07/27/2023

Abundance Scan 22 (2.674 min): VL040548.D\data.ms (-1)



Abundance Scan 1549 (7.584 min): VL040455.D\data.ms (-1)



#10

Heptane

Concen: 0.342 ppbv m

RT: 7.571 min Scan# 1545

Delta R.T. -0.019 min

Lab File: VL040548.D

Acq: 26 Jul 2023 19:51

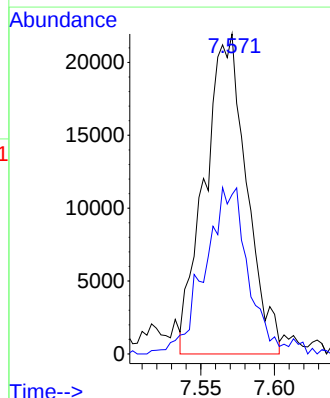
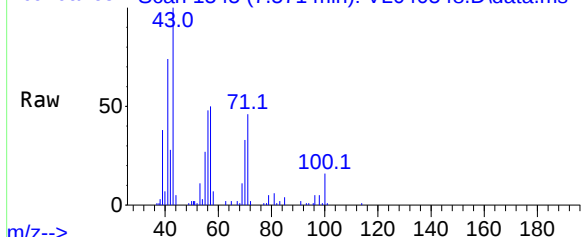
Tgt Ion: 43 Resp: 43552

Ion Ratio Lower Upper

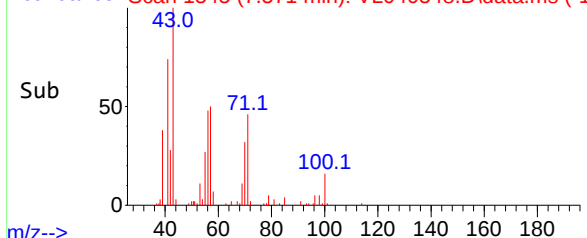
43 100

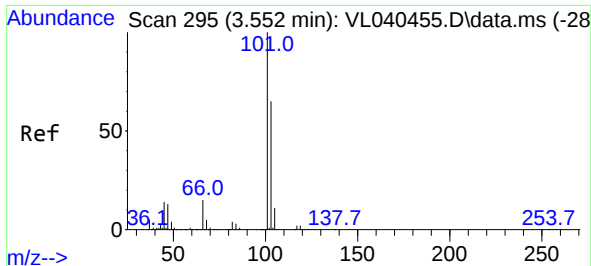
57 0.0 42.5 63.7#

Abundance Scan 1545 (7.571 min): VL040548.D\data.ms



Abundance Scan 1545 (7.571 min): VL040548.D\data.ms (-1)





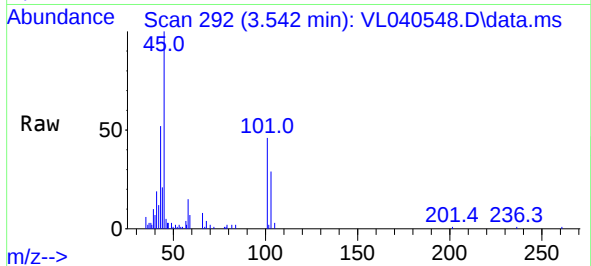
#11
Trichlorofluoromethane
Concen: 0.078 ppbv
RT: 3.542 min Scan# 295
Delta R.T. -0.029 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

Instrument :

MSVOA_L

ClientSampleId :

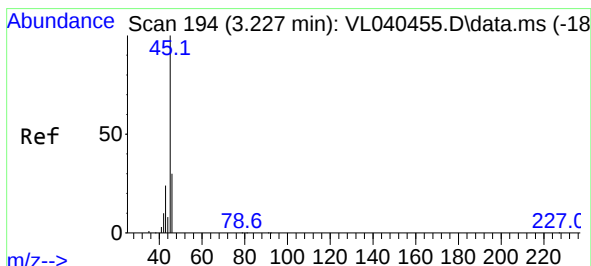
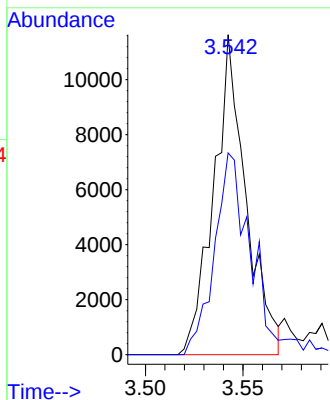
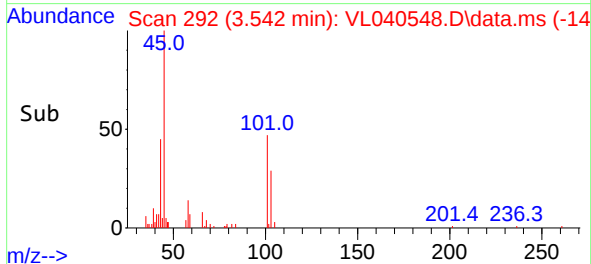
SV-16-20230719DL



Tgt Ion:101 Resp: 13430
Ion Ratio Lower Upper
101 100
103 63.1 53.4 80.0

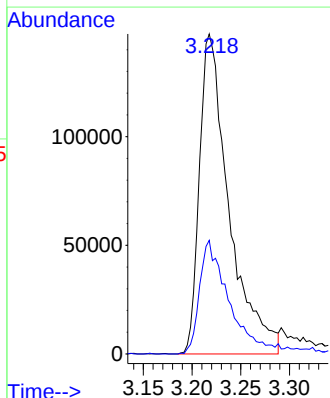
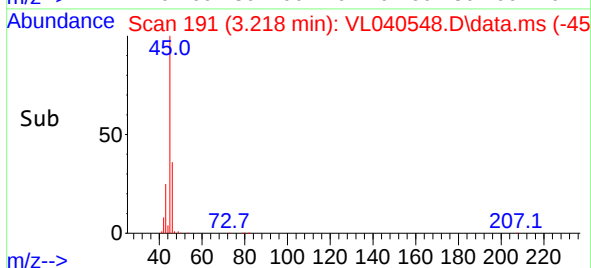
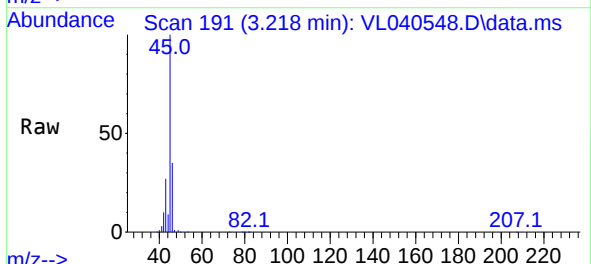
Manual Integrations
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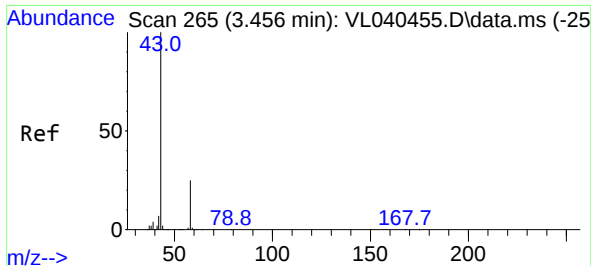
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#13
Ethanol
Concen: 24.736 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.029 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

Tgt Ion: 45 Resp: 310295
Ion Ratio Lower Upper
45 100
46 38.0 15.3 61.1





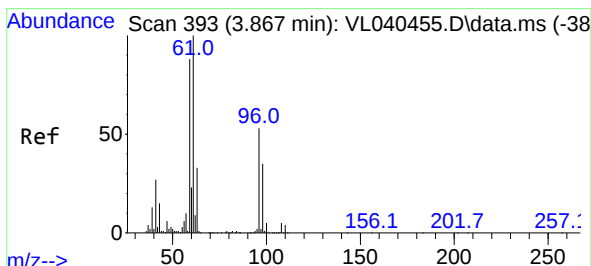
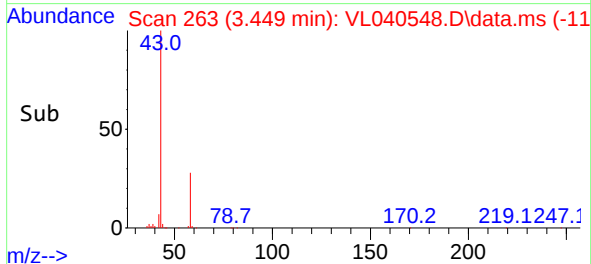
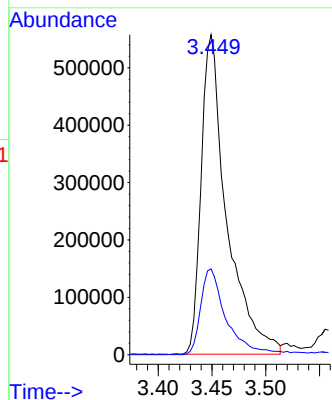
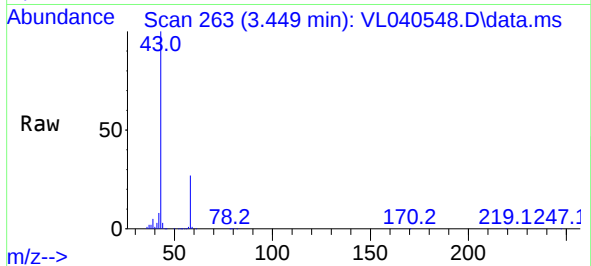
#15
Acetone
Concen: 7.539 ppbv
RT: 3.449 min Scan# 20
Delta R.T. -0.026 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL

Tgt Ion: 43 Resp: 922098
Ion Ratio Lower Upper
43 100
58 27.3 22.9 34.3

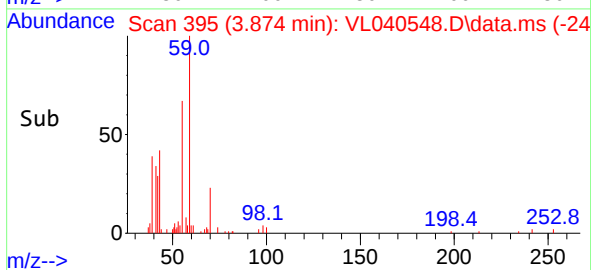
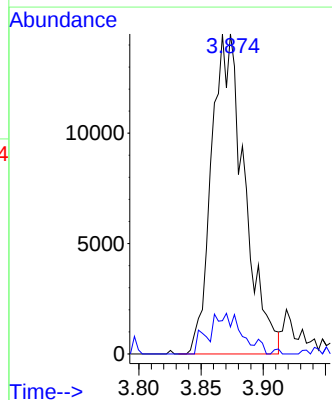
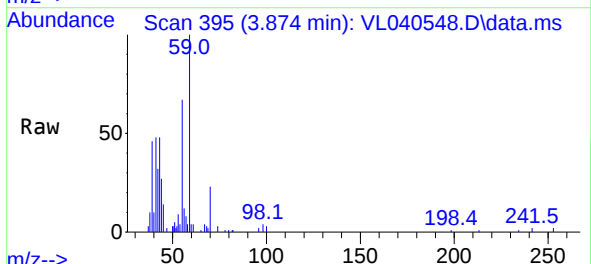
Manual Integrations
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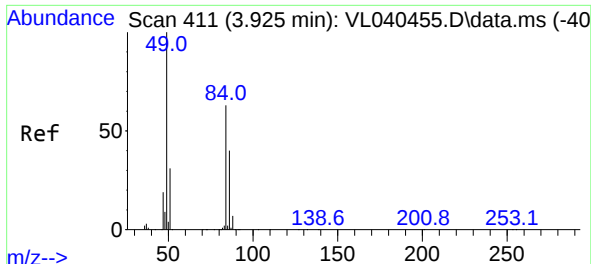
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#17
tert-Butyl alcohol
Concen: 0.211 ppbv m
RT: 3.874 min Scan# 395
Delta R.T. -0.010 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

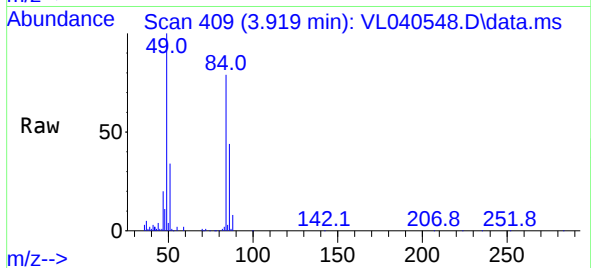
Tgt Ion: 59 Resp: 26745
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#20
Methylene Chloride
Concen: 2.705 ppbv
RT: 3.919 min Scan# 409
Delta R.T. -0.023 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

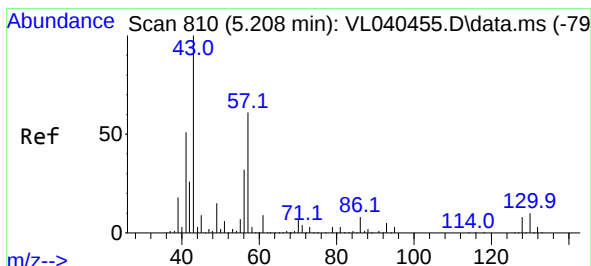
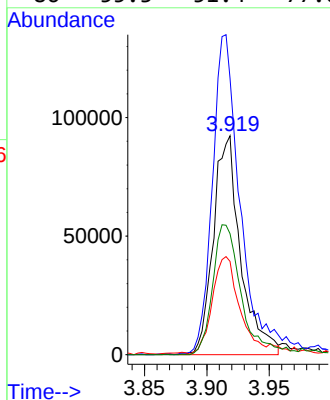
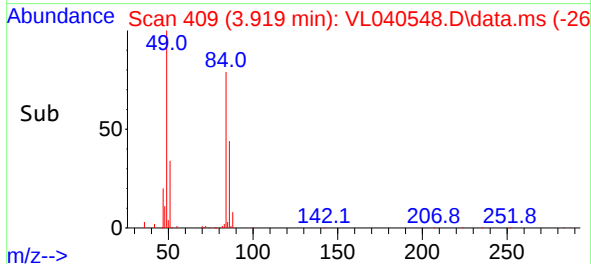
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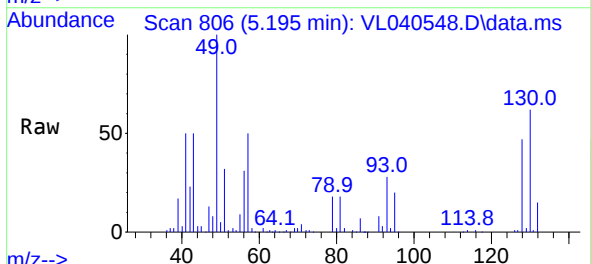
Tgt Ion: 84 Resp: 140700
Ion Ratio Lower Upper
84 100
49 125.9 123.4 185.2
51 41.8 38.3 57.5
86 55.3 51.4 77.0

Manual Integrations
APPROVED

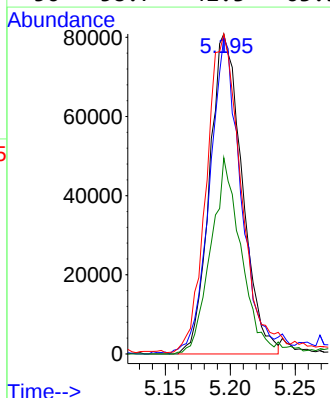
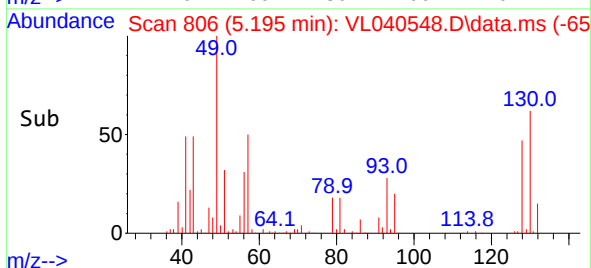
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

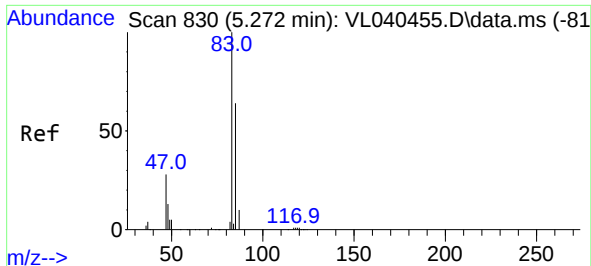


#26
Hexane
Concen: 1.302 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.026 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51



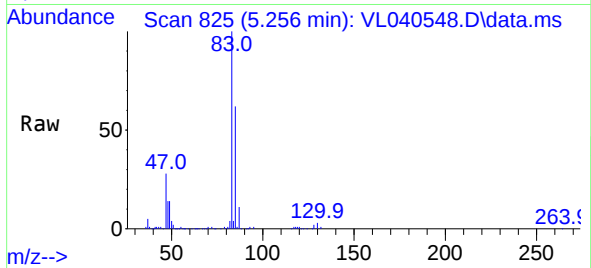
Tgt Ion: 57 Resp: 140890
Ion Ratio Lower Upper
57 100
41 102.8 69.5 104.3
43 110.5 177.1 265.7#
56 58.7 42.3 63.5





#29
Chloroform
Concen: 2.446 ppbv
RT: 5.256 min Scan# 81
Delta R.T. -0.029 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

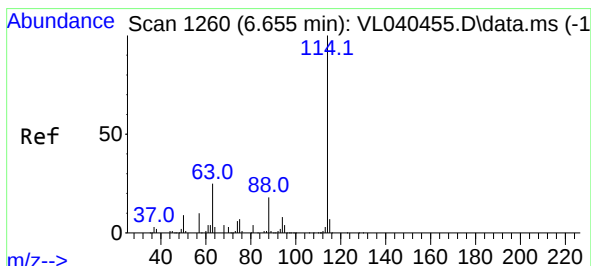
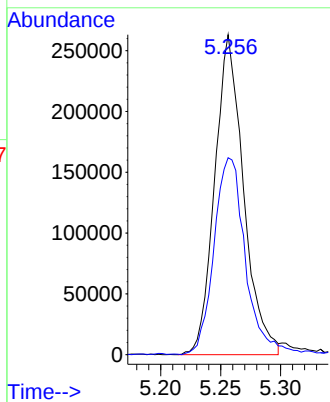
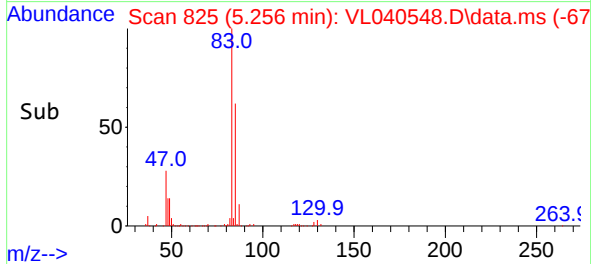
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL



Tgt Ion: 83 Resp: 438934
Ion Ratio Lower Upper
83 100
85 61.4 51.1 76.7

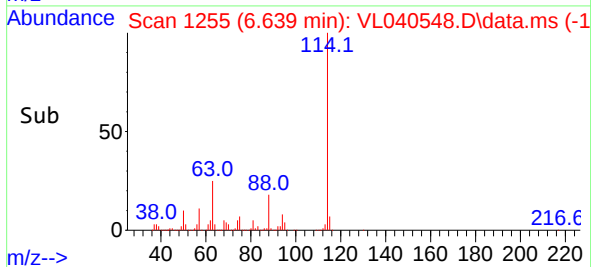
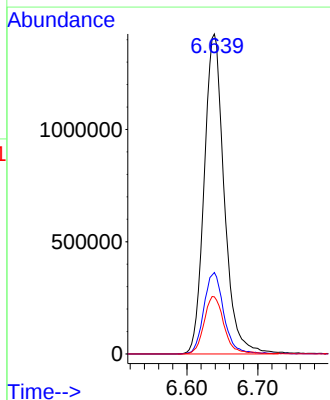
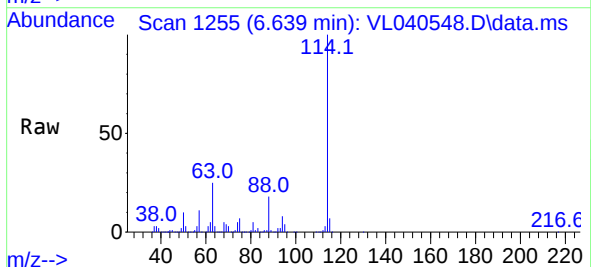
Manual Integrations
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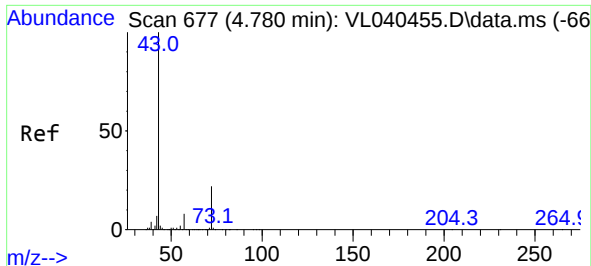
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

Tgt Ion:114 Resp: 2794971
Ion Ratio Lower Upper
114 100
63 25.7 19.6 29.4
88 18.1 14.2 21.2





#34

2-Butanone

Concen: 0.800 ppbv

RT: 4.771 min Scan# 61

Delta R.T. -0.023 min

Lab File: VL040548.D

Acq: 26 Jul 2023 19:51

Instrument :

MSVOA_L

ClientSampleId :

SV-16-20230719DL

Tgt Ion: 43 Resp: 11053

Ion Ratio Lower Upper

43 100

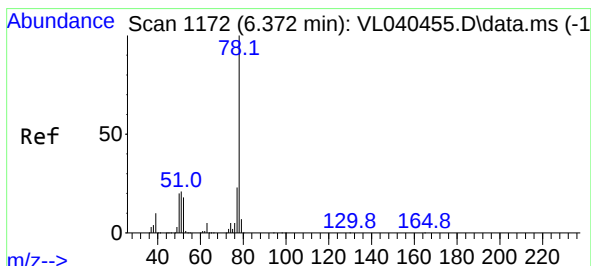
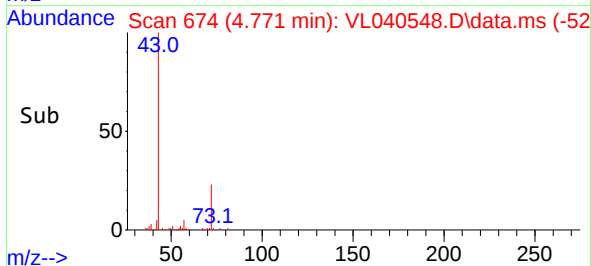
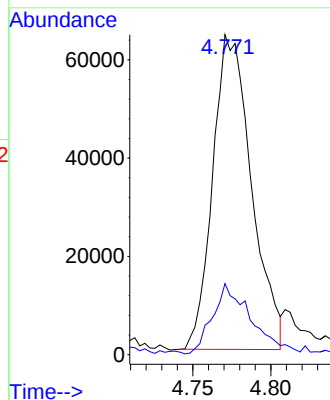
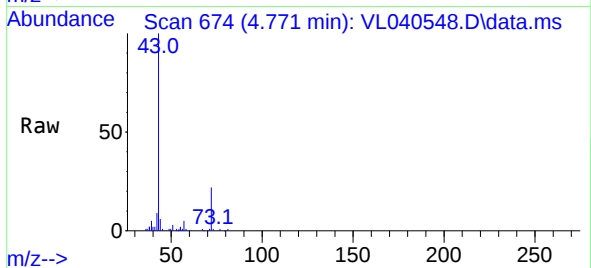
72 21.8 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/27/2023

Supervised By :Mahesh Dadoda 07/27/2023



#36

Benzene

Concen: 0.403 ppbv m

RT: 6.353 min Scan# 1166

Delta R.T. -0.029 min

Lab File: VL040548.D

Acq: 26 Jul 2023 19:51

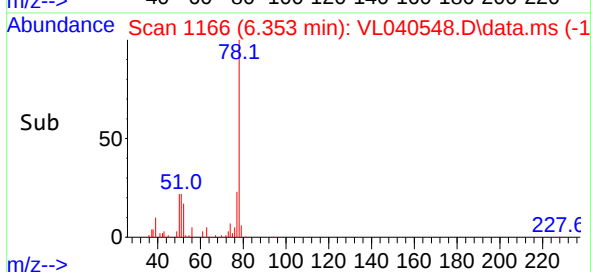
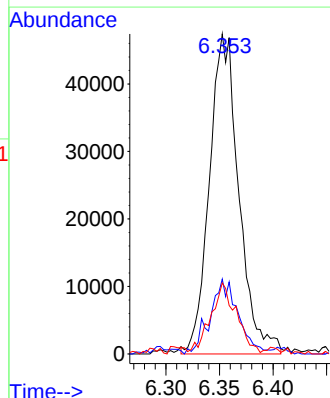
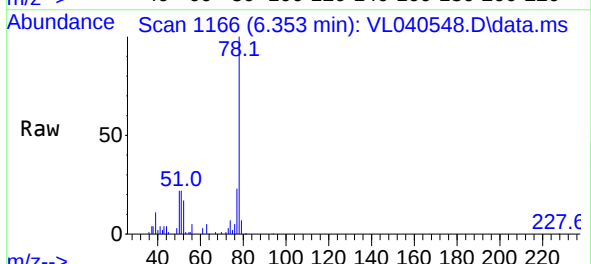
Tgt Ion: 78 Resp: 90707

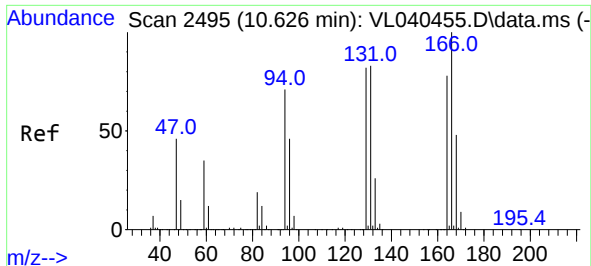
Ion Ratio Lower Upper

78 100

77 23.4 17.4 26.0

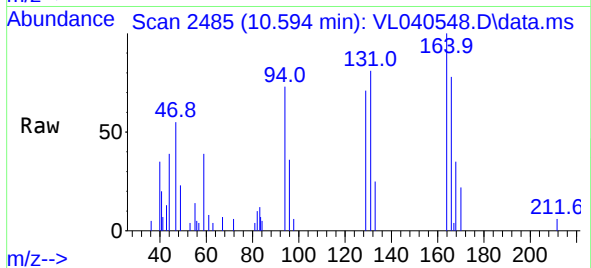
50 22.2 14.4 21.6#





#52
Tetrachloroethene
Concen: 0.105 ppbv m
RT: 10.594 min Scan# 2495
Delta R.T. -0.032 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

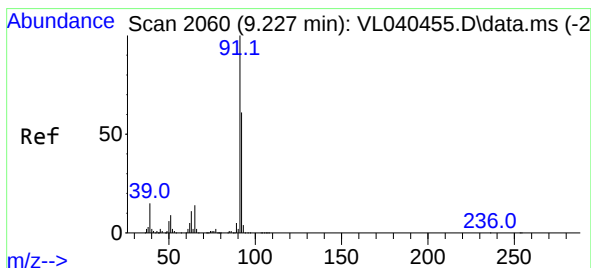
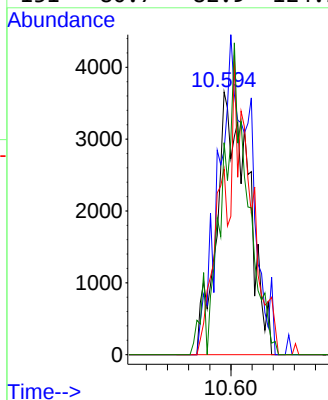
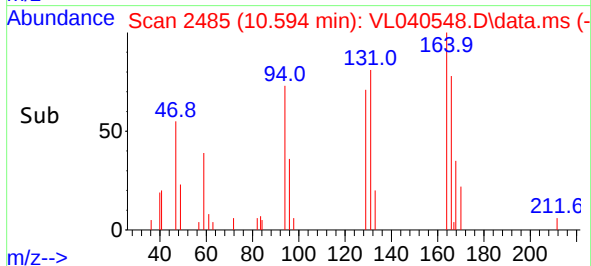
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL



Tgt Ion:164 Resp: 7679
Ion Ratio Lower Upper
164 100
166 77.7 103.9 155.9
129 70.7 84.6 126.8
131 80.7 82.9 124.3

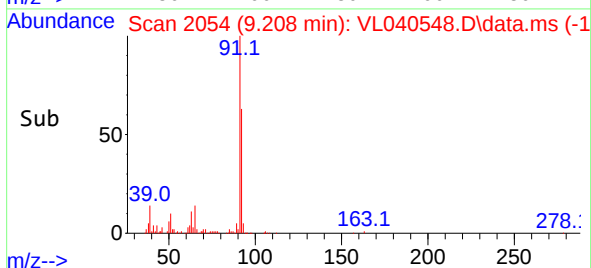
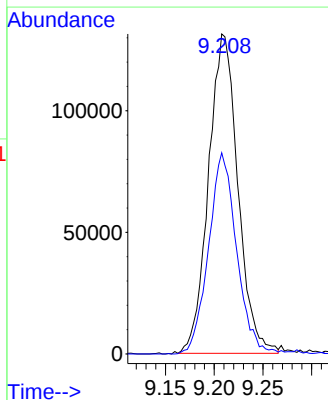
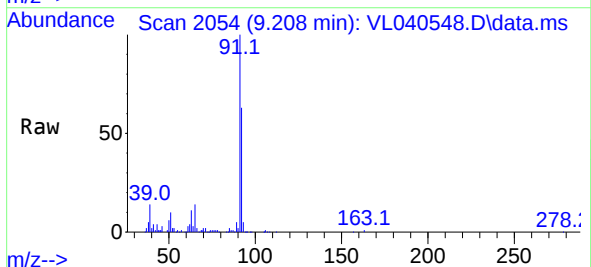
Manual Integrations
APPROVED

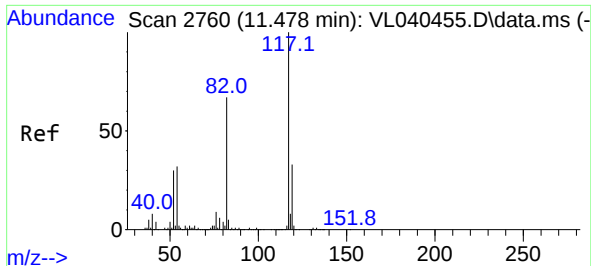
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#53
Toluene
Concen: 1.126 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.023 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

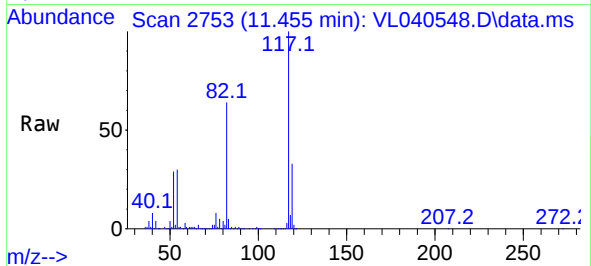
Tgt Ion: 91 Resp: 275074
Ion Ratio Lower Upper
91 100
92 60.4 49.1 73.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

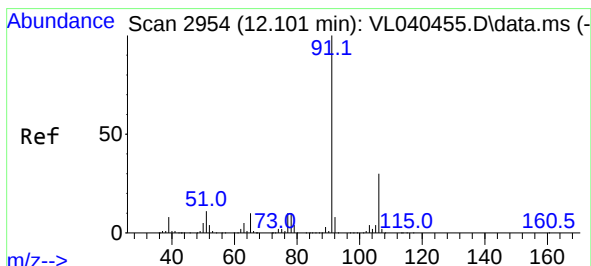
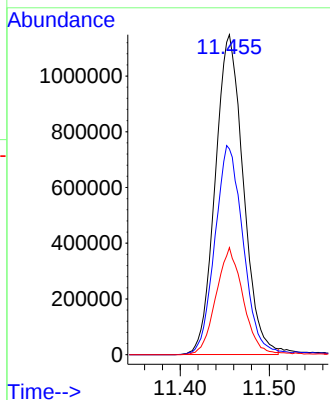
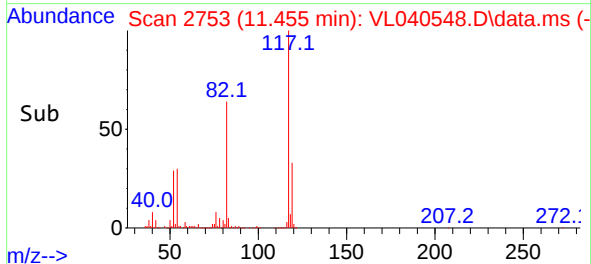
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL



Tgt Ion:117 Resp: 251266
Ion Ratio Lower Upper
117 100
82 67.0 50.2 75.4
119 32.8 26.9 40.3

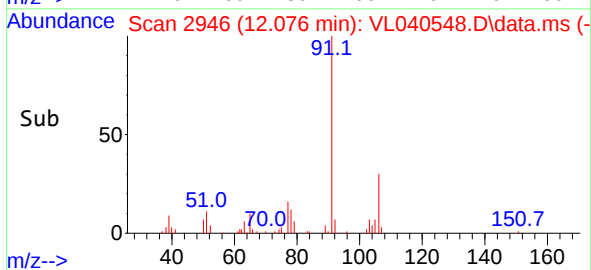
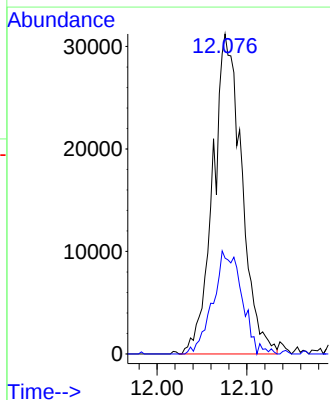
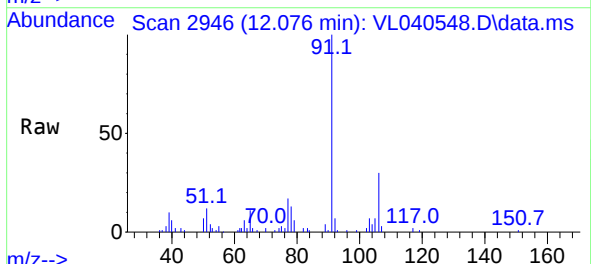
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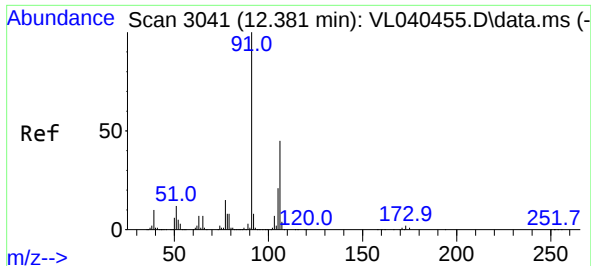
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#58
Ethyl Benzene
Concen: 0.220 ppbv m
RT: 12.076 min Scan# 2946
Delta R.T. -0.026 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

Tgt Ion: 91 Resp: 69347
Ion Ratio Lower Upper
91 100
106 29.9 25.4 38.0





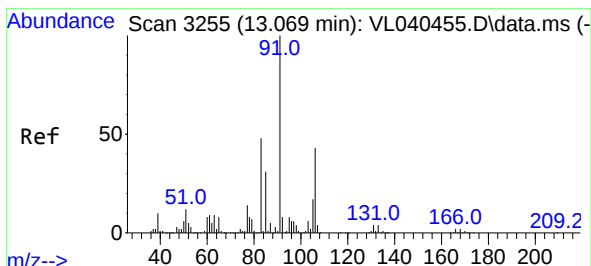
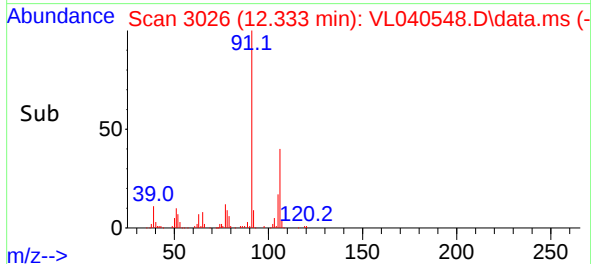
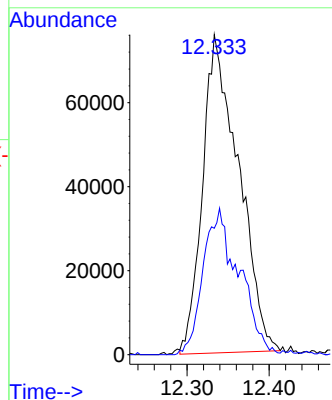
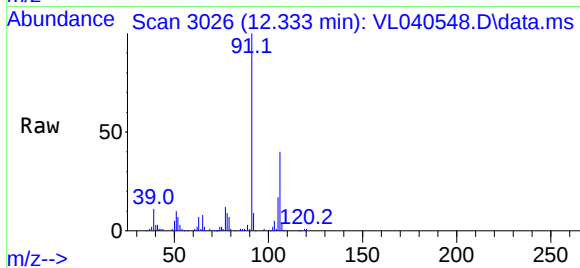
#59
m/p-Xylene
Concen: 0.819 ppbv
RT: 12.333 min Scan# 3041
Delta R.T. -0.051 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL

Tgt Ion: 91 Resp: 23050
Ion Ratio Lower Upper
91 100
106 46.5 35.9 53.9

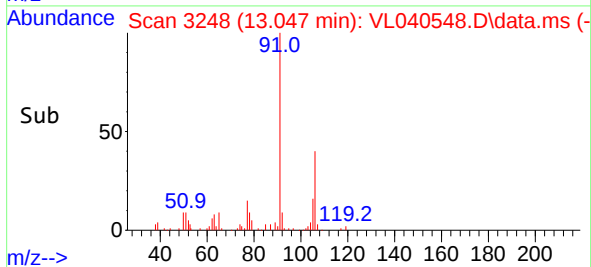
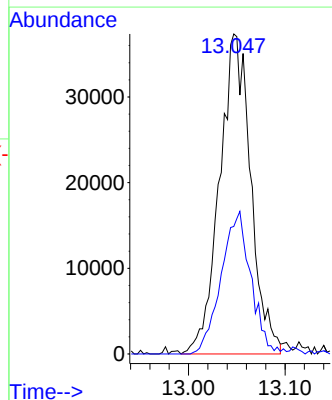
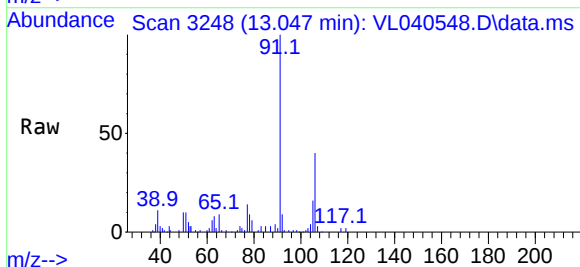
Manual Integrations
APPROVED

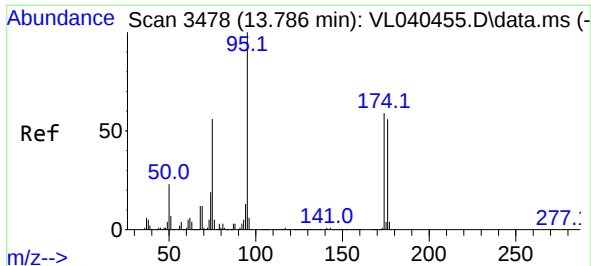
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#60
o-Xylene
Concen: 0.313 ppbv m
RT: 13.047 min Scan# 3248
Delta R.T. -0.023 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

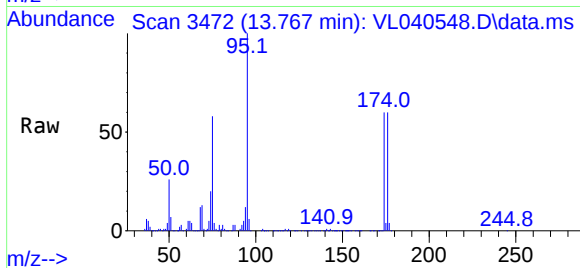
Tgt Ion: 91 Resp: 83987
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.070 ppbv
RT: 13.767 min Scan# 3478
Delta R.T. -0.016 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51

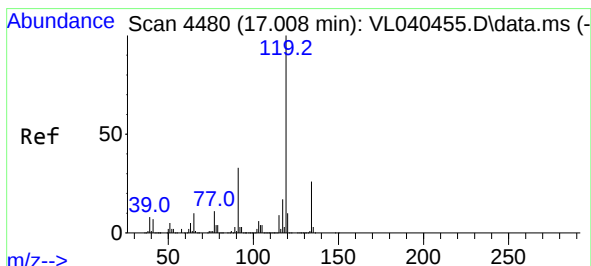
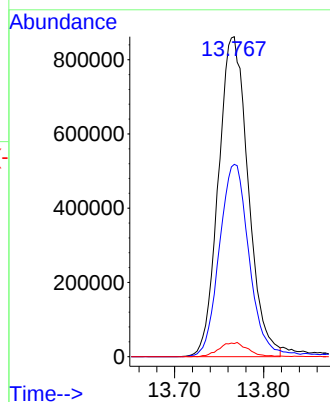
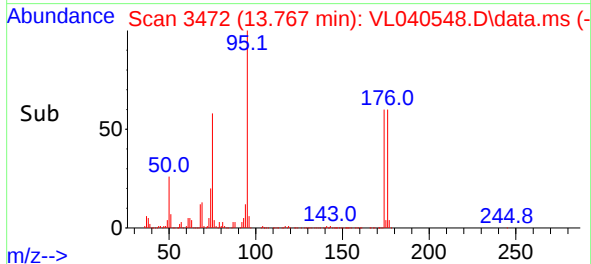
Instrument :
MSVOA_L
ClientSampleId :
SV-16-20230719DL



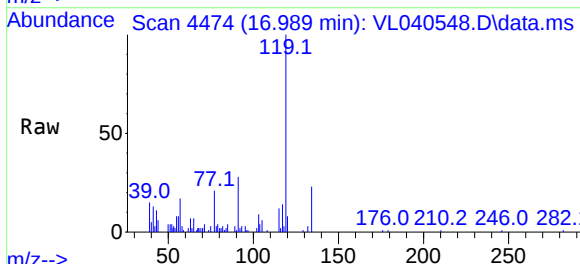
Tgt Ion: 95 Resp: 200248
Ion Ratio Lower Upper
95 100
174 61.6 50.6 75.8
175 4.4 3.7 5.5

Manual Integrations
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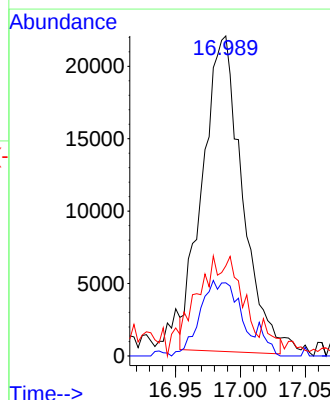
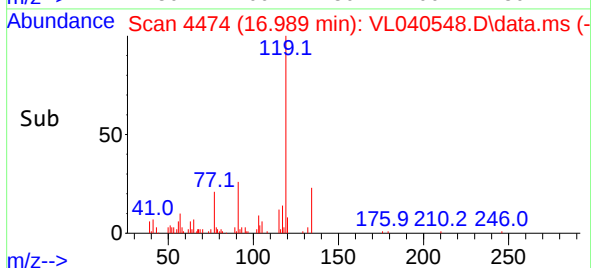
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

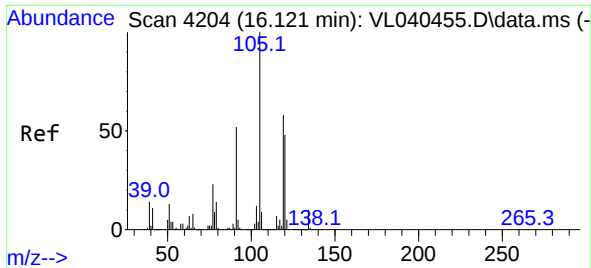


#69
p-Isopropyltoluene
Concen: 0.107 ppbv
RT: 16.989 min Scan# 4474
Delta R.T. -0.016 min
Lab File: VL040548.D
Acq: 26 Jul 2023 19:51



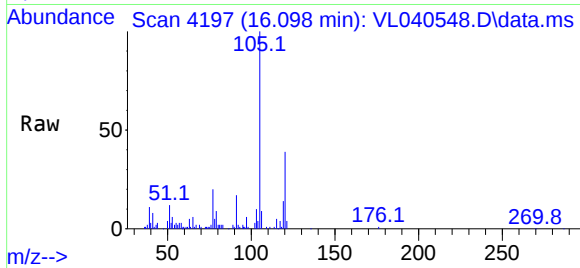
Tgt Ion:119 Resp: 46029
Ion Ratio Lower Upper
119 100
134 26.7 20.5 30.7
91 42.6 23.8 35.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.276 ppbv
 RT: 16.098 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL040548.D
 Acq: 26 Jul 2023 19:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-16-20230719DL



Tgt Ion:	105	Resp:	8926
Ion Ratio	Lower	Upper	
105	100		
120	37.9	40.3	60.5
91	15.6	46.8	70.2
77	18.0	18.6	28.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/27/2023
 Supervised By :Mahesh Dadoda 07/27/2023

