

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090723\
 Data File : VL040670.D
 Acq On : 7 Sep 2023 13:35
 Operator : SY/MD
 Sample : 04323-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2023
 Supervised By :Mahesh Dadoda 09/11/2023

Quant Time: Sep 07 14:04:46 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M

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

QLast Update : Wed Aug 16 05:43:50 2023

Response via : Initial Calibration

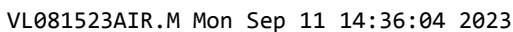
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

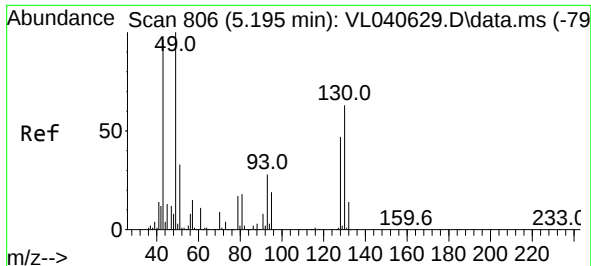
Internal Standards						
1) Bromochloromethane	5.192	49	1072432	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2727321	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2375292	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1921463	10.171	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	64948	0.281	ppbv	99
3) Chlorodifluoromethane	2.665	51	61379m	0.349	ppbv	
4) Chloromethane	2.809	50	33352	0.486	ppbv	97
9) Propene	2.697	41	62536m	1.146	ppbv	
10) Heptane	7.584	43	55707m	0.443	ppbv	
11) Trichlorofluoromethane	3.558	101	61125	0.328	ppbv	96
13) Ethanol	3.234	45	139353	9.152	ppbv	98
15) Acetone	3.456	43	5424619	41.354	ppbv	96
17) tert-Butyl alcohol	3.880	59	99387	0.714	ppbv #	94
20) Methylene Chloride	3.928	84	798658	12.459	ppbv	99
25) Ethyl Acetate	5.201	43	768710	3.120	ppbv #	97
26) Hexane	5.211	57	459170	3.852	ppbv #	78
29) Chloroform	5.272	83	25245	0.134	ppbv #	68
30) Cyclohexane	6.600	84	10392m	0.114	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	14041m	0.131	ppbv	
34) 2-Butanone	4.787	43	120564	0.877	ppbv	100
35) Carbon Tetrachloride	6.488	117	12908m	0.076	ppbv	
36) Benzene	6.372	78	90018	0.415	ppbv #	93
38) Trichloroethene	7.301	130	9773m	0.116	ppbv	
43) Methyl Methacrylate	7.478	69	39022	0.480	ppbv	94
52) Tetrachloroethene	10.622	164	2461971	36.232	ppbv	98
53) Toluene	9.224	91	398015	1.726	ppbv	100
58) Ethyl Benzene	12.098	91	68694m	0.240	ppbv	
59) m/p-Xylene	12.356	91	178392m	0.683	ppbv	
60) o-Xylene	13.066	91	74588	0.301	ppbv	97
61) Styrene	12.902	104	12723m	0.117	ppbv	
73) 1,3,5-Trimethylbenzene	15.362	105	38896	0.156	ppbv	96
74) 1,2,4-Trimethylbenzene	16.117	105	124106	0.425	ppbv #	69

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

Manual Integrations APPROVED

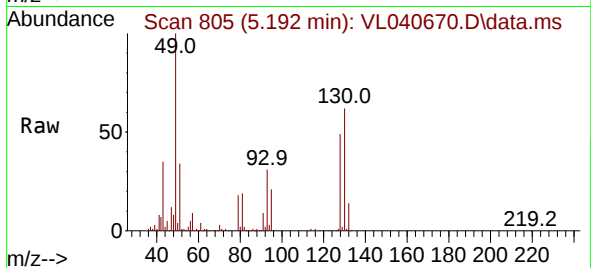
Quant Time: Sep 07 14:04:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Aug 16 05:43:50 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

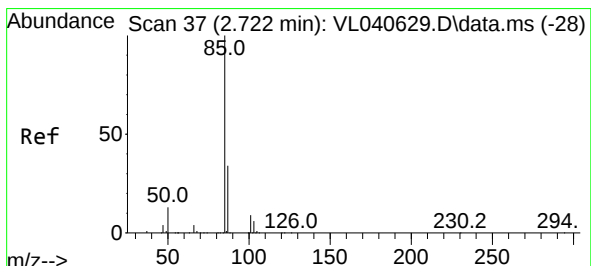
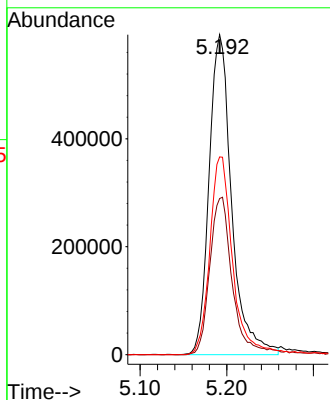
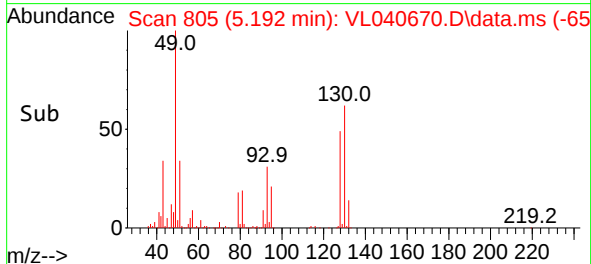
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 107243
Ion Ratio Lower Upper
49 100
128 50.3 24.9 74.7
130 63.6 32.2 96.6

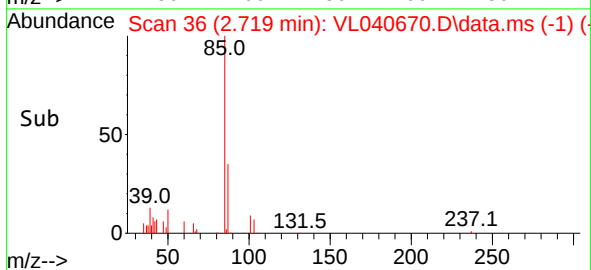
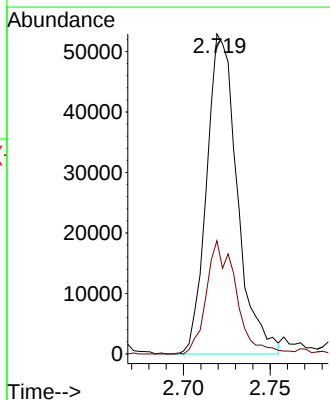
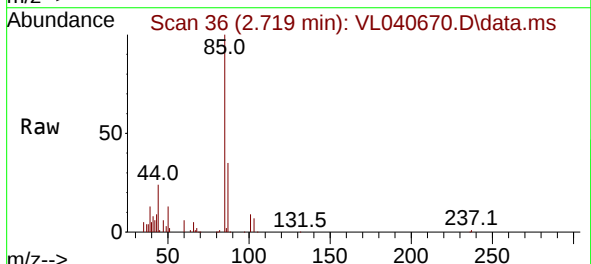
Manual Integrations
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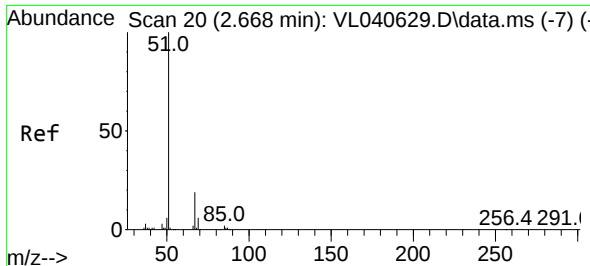
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#2
Dichlorodifluoromethane
Concen: 0.281 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

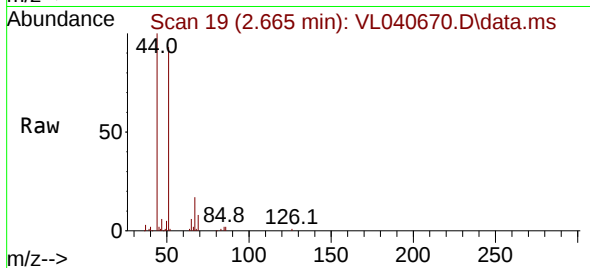
Tgt Ion: 85 Resp: 64948
Ion Ratio Lower Upper
85 100
87 35.1 27.5 41.3





#3
Chlorodifluoromethane
Concen: 0.349 ppbv m
RT: 2.665 min Scan# 19
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

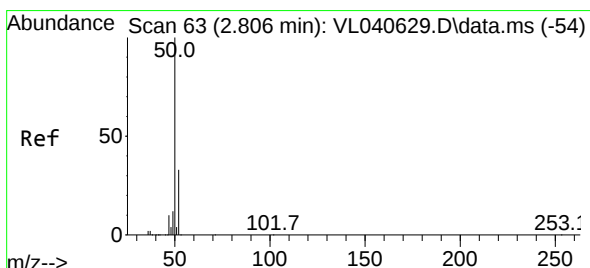
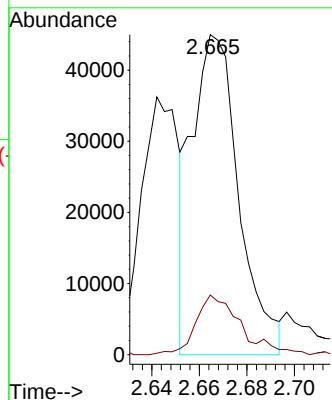
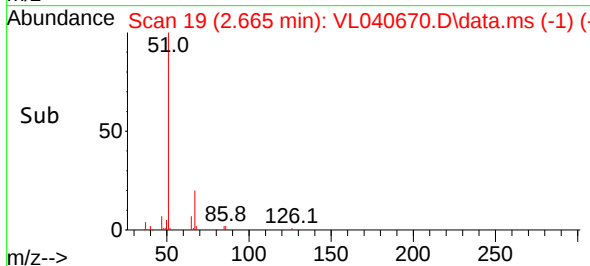
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 61379
Ion Ratio Lower Upper
51 100
67 18.9 15.0 22.6

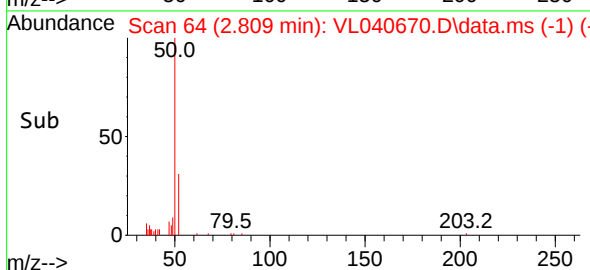
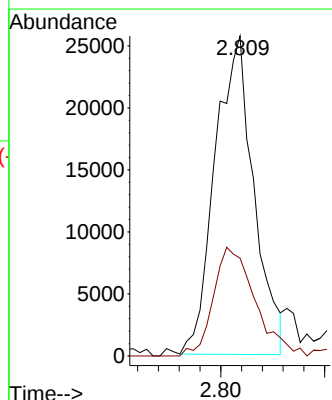
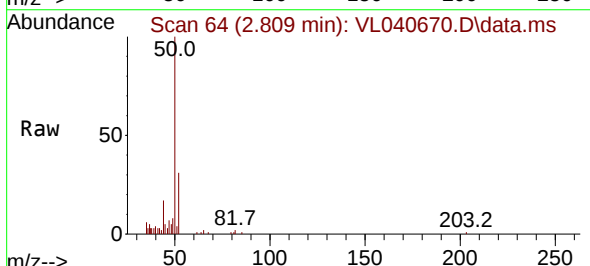
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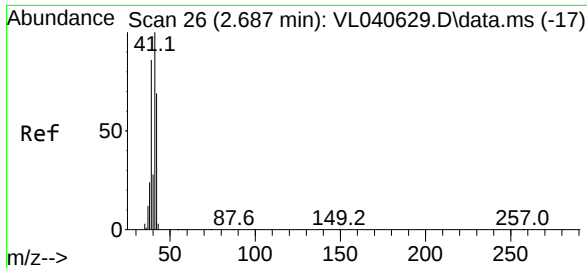
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#4
Chloromethane
Concen: 0.486 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

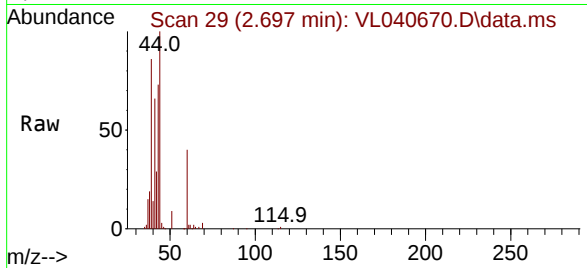
Tgt Ion: 50 Resp: 33352
Ion Ratio Lower Upper
50 100
52 30.8 26.2 39.2





#9
 Propene
 Concen: 1.146 ppbv m
 RT: 2.697 min Scan# 24
 Delta R.T. 0.010 min
 Lab File: VL040670.D
 Acq: 7 Sep 2023 13:35

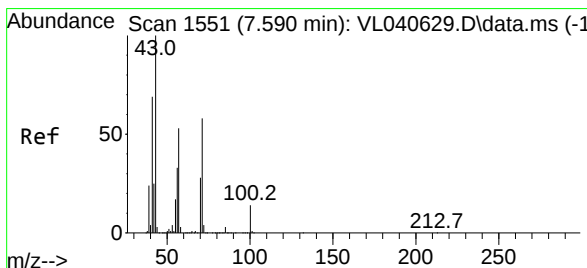
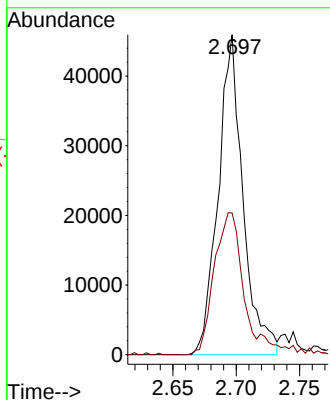
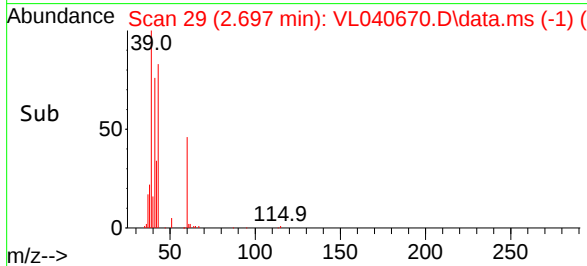
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 62530
 Ion Ratio Lower Upper
 41 100
 42 74.4 56.5 84.7

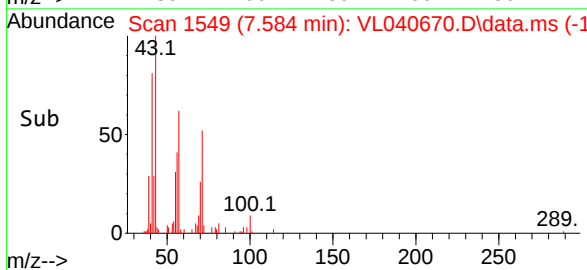
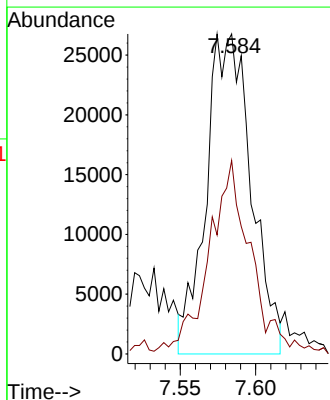
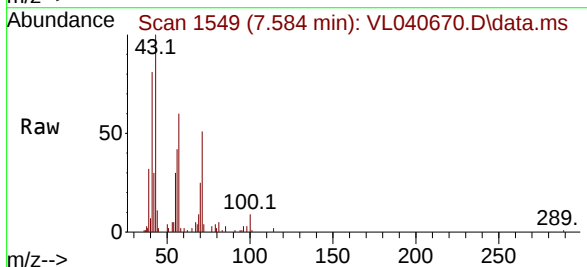
Manual Integrations
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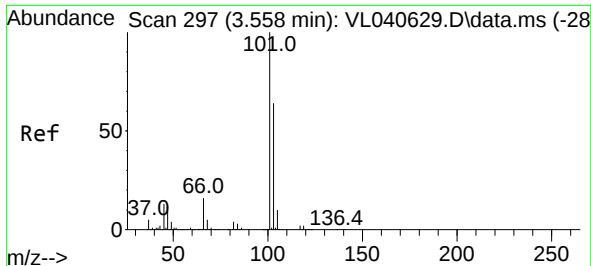
Reviewed By :Semsettin Yesilyurt 09/11/2023
 Supervised By :Mahesh Dadoda 09/11/2023



#10
 Heptane
 Concen: 0.443 ppbv m
 RT: 7.584 min Scan# 1549
 Delta R.T. -0.006 min
 Lab File: VL040670.D
 Acq: 7 Sep 2023 13:35

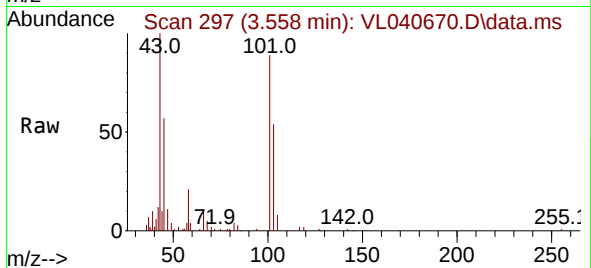
Tgt Ion: 43 Resp: 55707
 Ion Ratio Lower Upper
 43 100
 57 57.5 42.5 63.7





#11
 Trichlorofluoromethane
 Concen: 0.328 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. 0.000 min
 Lab File: VL040670.D
 Acq: 7 Sep 2023 13:35

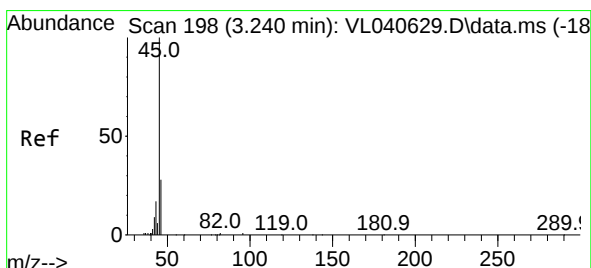
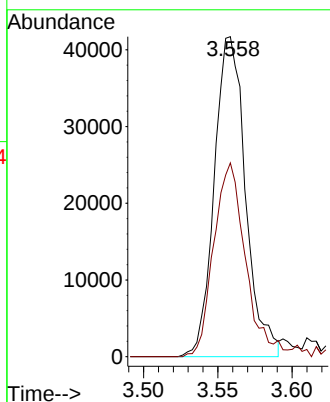
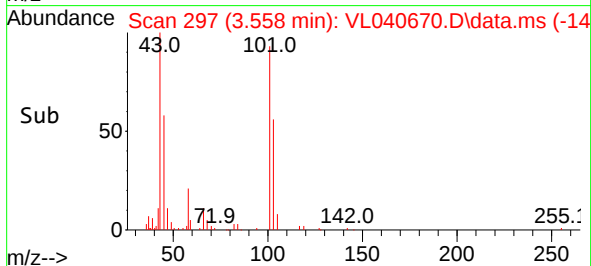
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



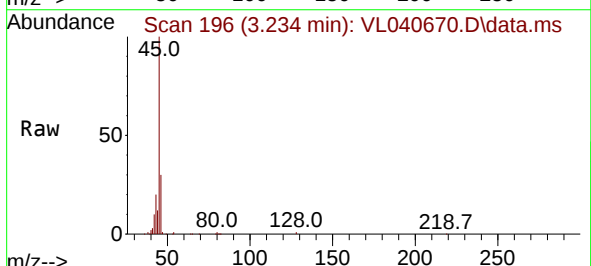
Tgt Ion:101 Resp: 61125
 Ion Ratio Lower Upper
 101 100
 103 60.5 51.1 76.7

Manual Integrations
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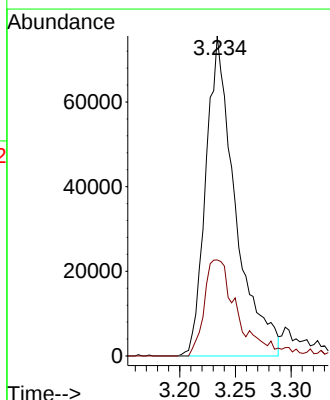
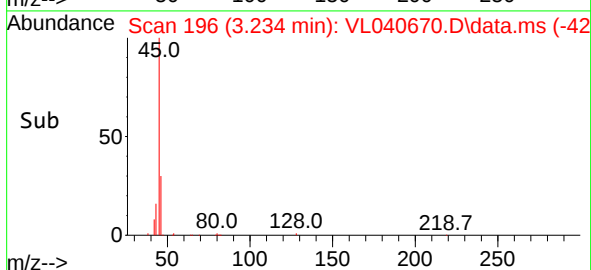
Reviewed By :Semsettin Yesilyurt 09/11/2023
 Supervised By :Mahesh Dadoda 09/11/2023

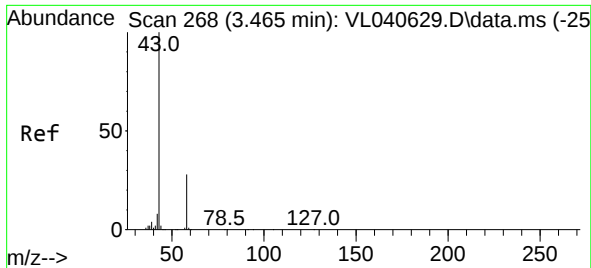


#13
 Ethanol
 Concen: 9.152 ppbv
 RT: 3.234 min Scan# 196
 Delta R.T. -0.006 min
 Lab File: VL040670.D
 Acq: 7 Sep 2023 13:35



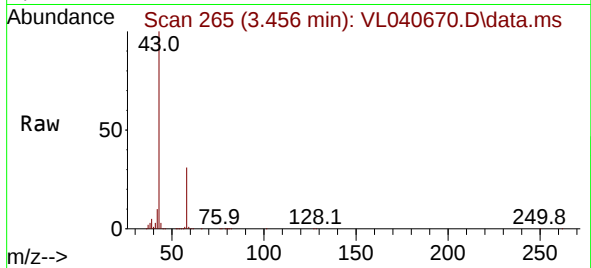
Tgt Ion: 45 Resp: 139353
 Ion Ratio Lower Upper
 45 100
 46 34.3 14.2 56.6





#15
Acetone
Concen: 41.354 ppbv
RT: 3.456 min Scan# 265
Delta R.T. -0.010 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

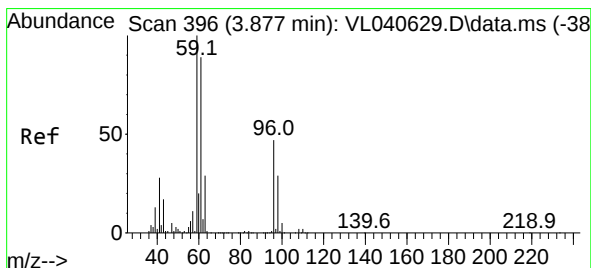
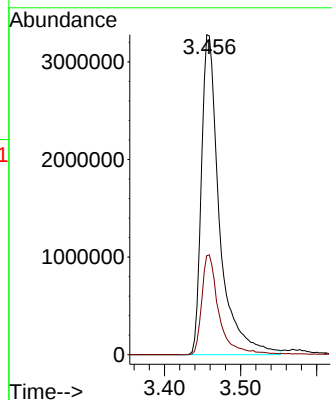
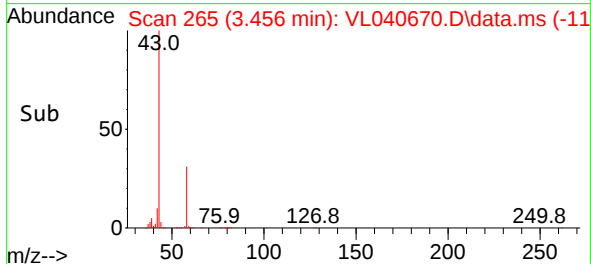
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 5424619
Ion Ratio Lower Upper
43 100
58 30.3 22.4 33.6

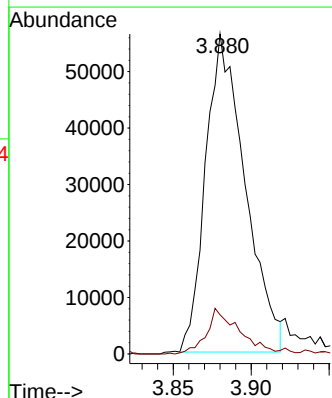
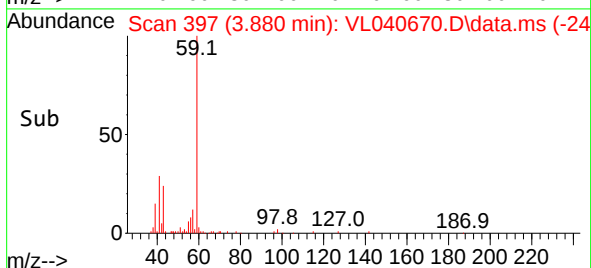
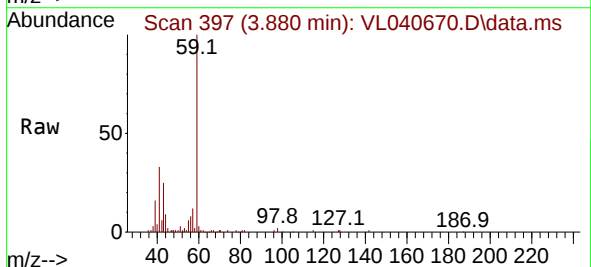
Manual Integrations
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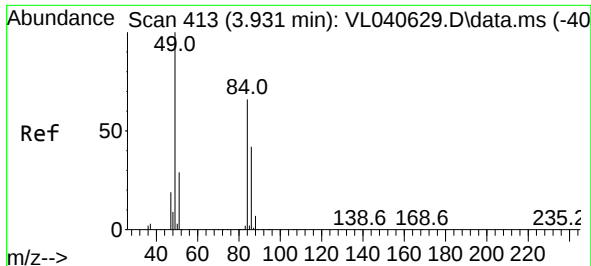
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#17
tert-Butyl alcohol
Concen: 0.714 ppbv
RT: 3.880 min Scan# 397
Delta R.T. 0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

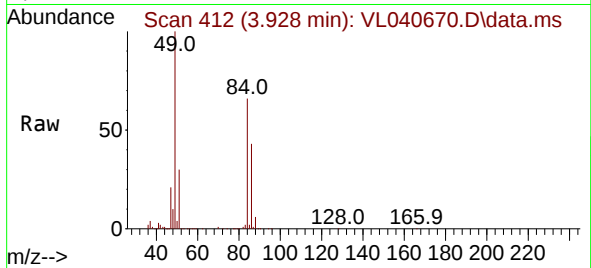
Tgt Ion: 59 Resp: 99387
Ion Ratio Lower Upper
59 100
57 12.9 8.4 12.6#





#20
Methylene Chloride
Concen: 12.459 ppbv
RT: 3.928 min Scan# 413
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

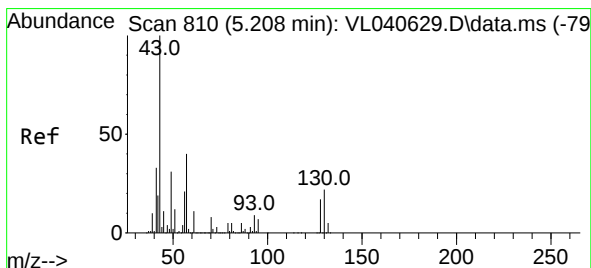
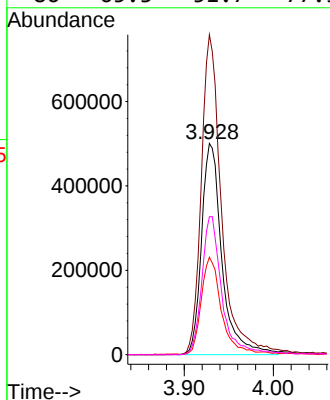
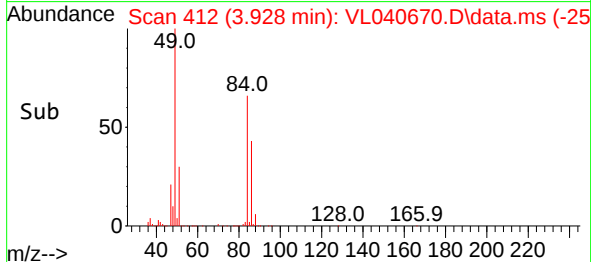
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 798658
Ion Ratio Lower Upper
84 100
49 151.1 122.1 183.1
51 45.8 35.4 53.2
86 65.3 51.7 77.5

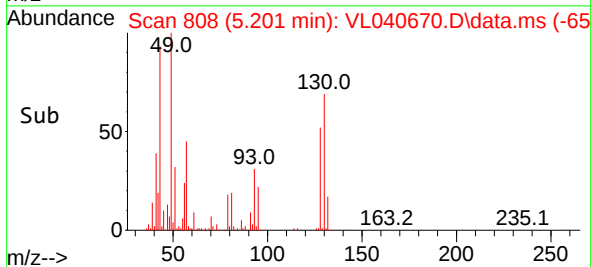
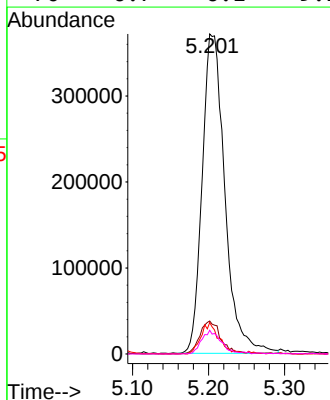
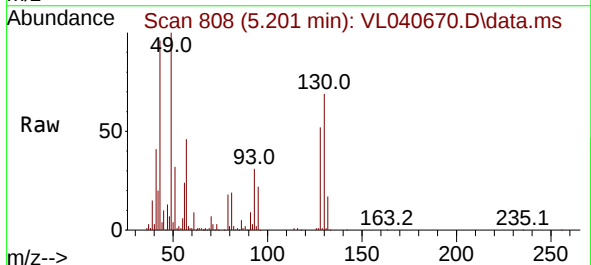
Manual Integrations
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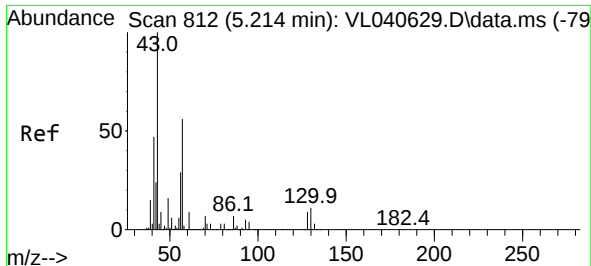
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#25
Ethyl Acetate
Concen: 3.120 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

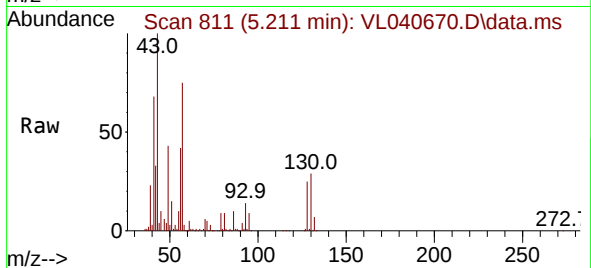
Tgt Ion: 43 Resp: 768710
Ion Ratio Lower Upper
43 100
45 9.8 8.2 12.4
61 8.3 8.3 12.5#
70 6.7 6.1 9.1





#26
Hexane
Concen: 3.852 ppbv
RT: 5.211 min Scan# 812
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

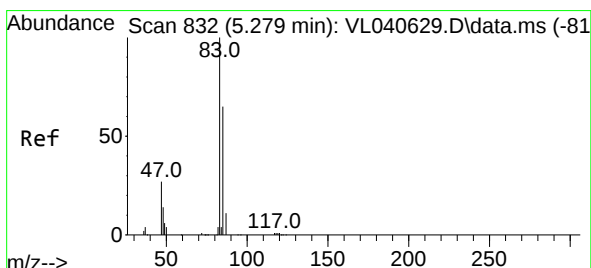
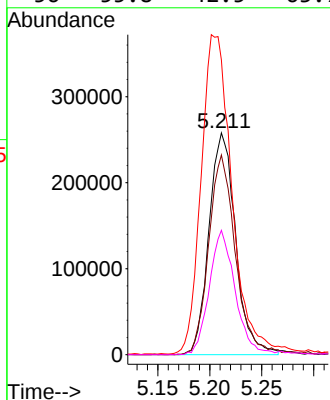
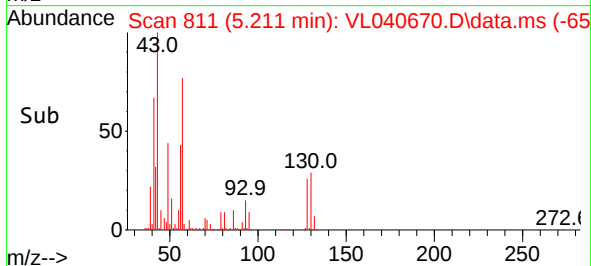
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 459170
Ion Ratio Lower Upper
57 100
41 91.5 69.3 103.9
43 169.6 177.9 266.9
56 55.8 42.5 63.7

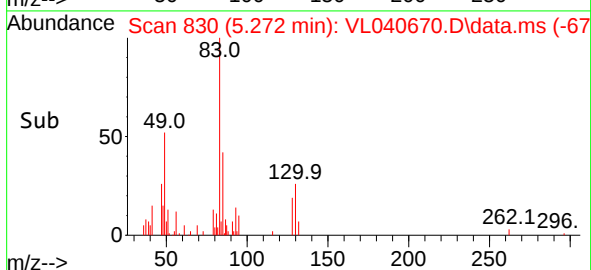
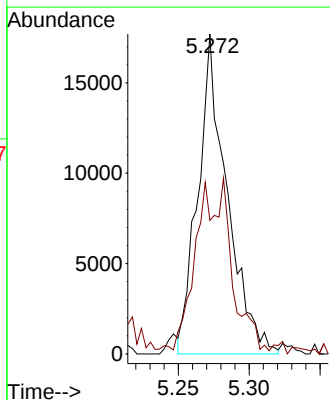
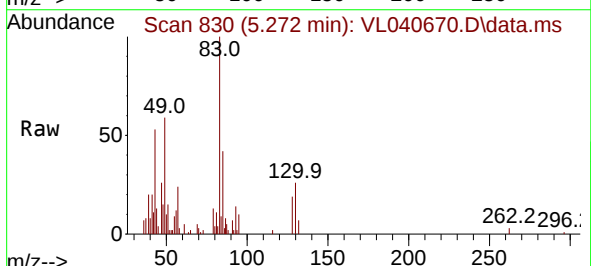
Manual Integrations
APPROVED

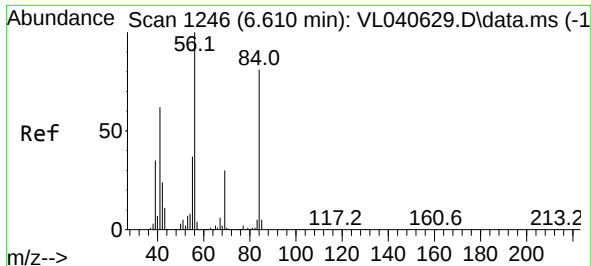
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#29
Chloroform
Concen: 0.134 ppbv
RT: 5.272 min Scan# 830
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

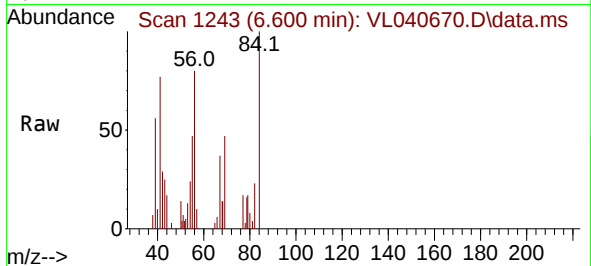
Tgt Ion: 83 Resp: 25245
Ion Ratio Lower Upper
83 100
85 39.6 52.2 78.2





#30
Cyclohexane
Concen: 0.114 ppbv m
RT: 6.600 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

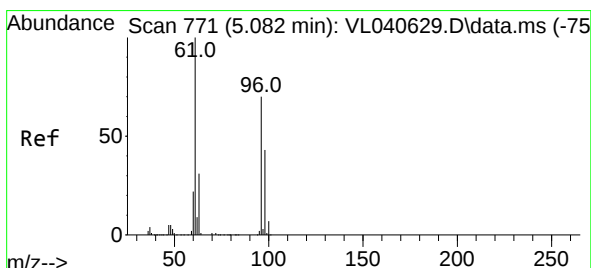
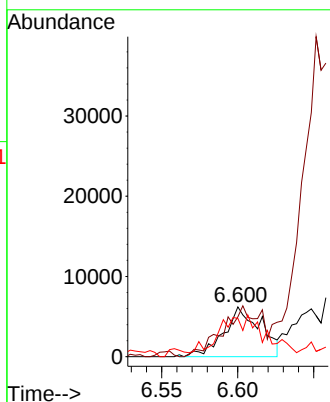
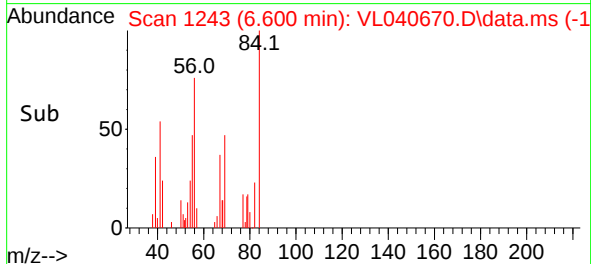
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 10392
Ion Ratio Lower Upper
84 100
56 0.0 105.4 158.2#
41 0.0 64.2 96.2#

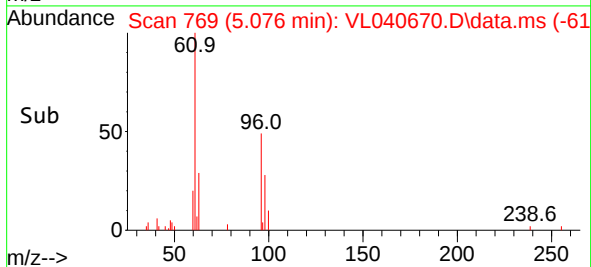
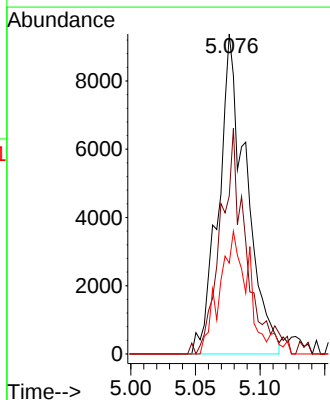
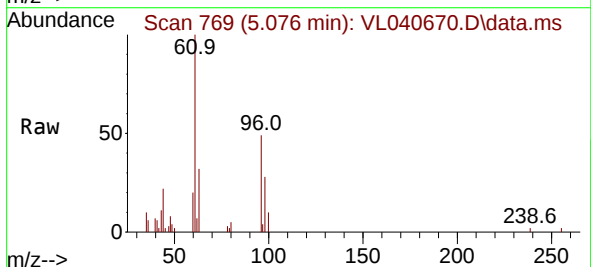
Manual Integrations
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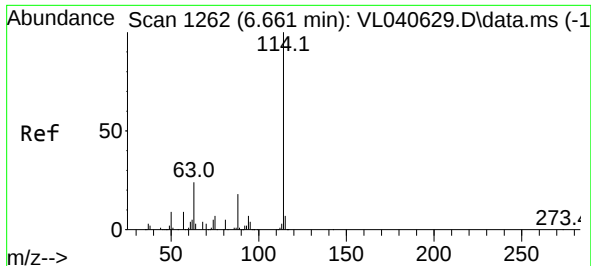
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#31
cis-1,2-Dichloroethene
Concen: 0.131 ppbv m
RT: 5.076 min Scan# 769
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

Tgt Ion: 61 Resp: 14041
Ion Ratio Lower Upper
61 100
96 49.4 55.8 83.6#
98 28.4 34.8 52.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL040670.D

Acq: 7 Sep 2023 13:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 272732

Ion Ratio Lower Upper

114 100

63 25.5 20.2 30.2

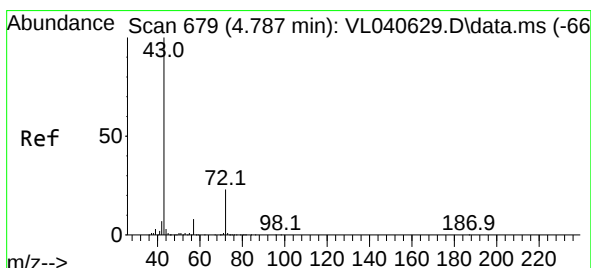
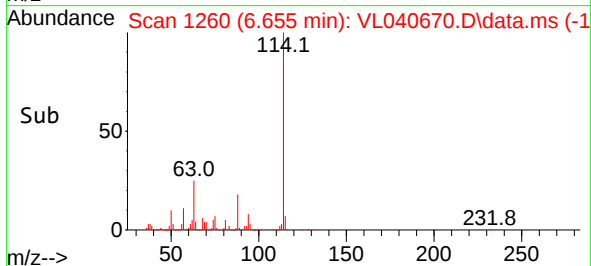
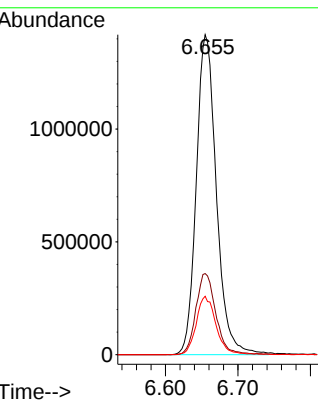
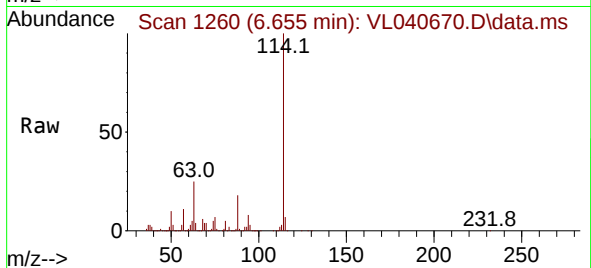
88 18.1 14.1 21.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2023

Supervised By :Mahesh Dadoda 09/11/2023



#34

2-Butanone

Concen: 0.877 ppbv

RT: 4.787 min Scan# 679

Delta R.T. -0.000 min

Lab File: VL040670.D

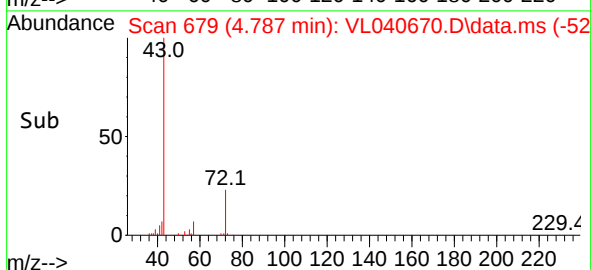
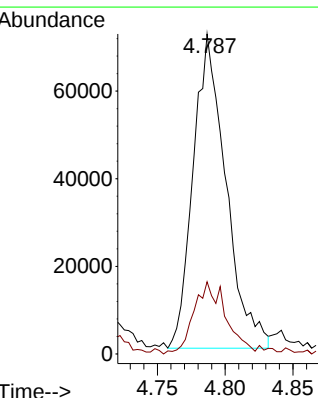
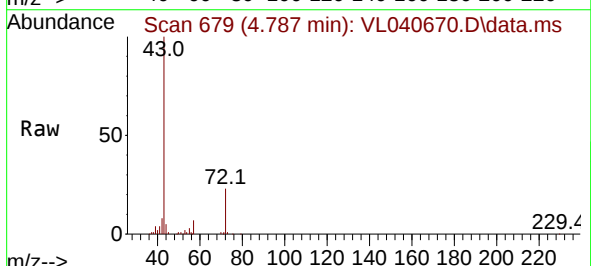
Acq: 7 Sep 2023 13:35

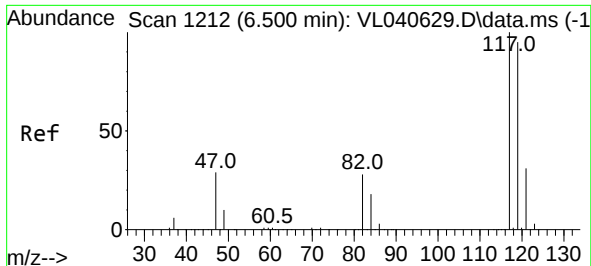
Tgt Ion: 43 Resp: 120564

Ion Ratio Lower Upper

43 100

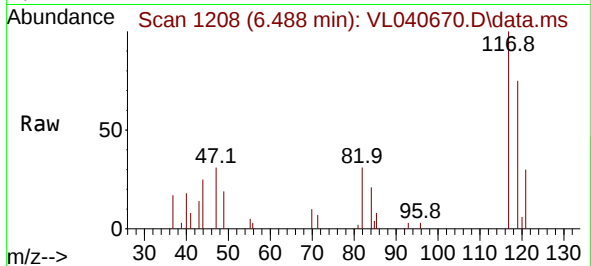
72 23.8 19.2 28.8





#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.488 min Scan# 1172
Delta R.T. -0.013 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

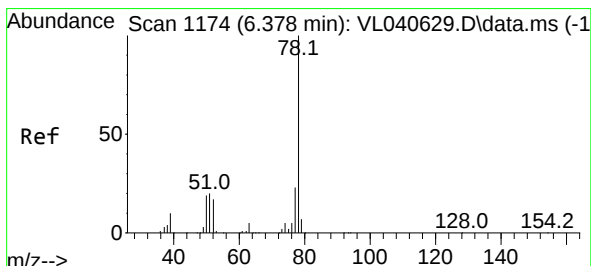
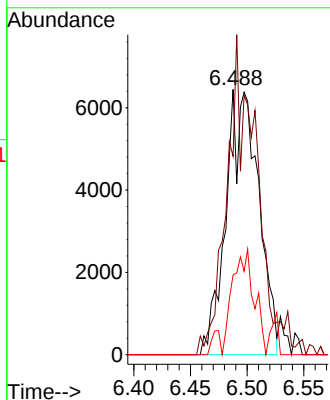
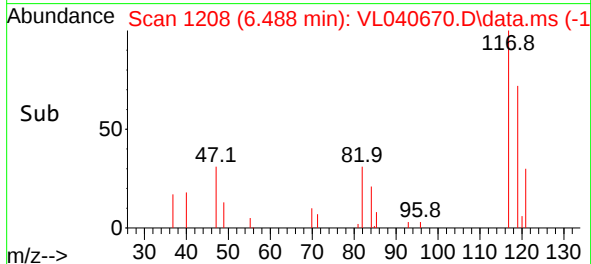
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 12908
Ion Ratio Lower Upper
117 100
119 74.8 75.6 113.4
121 30.0 24.9 37.3

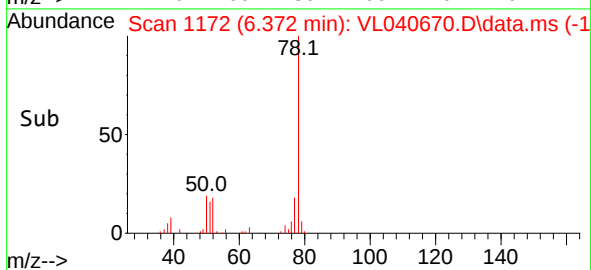
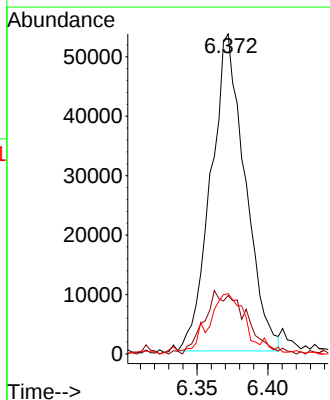
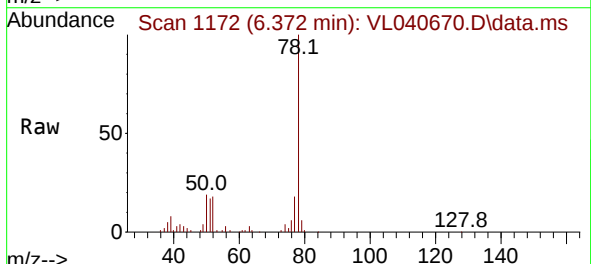
Manual Integrations
APPROVED

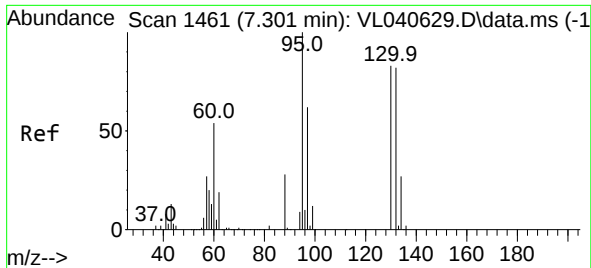
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#36
Benzene
Concen: 0.415 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

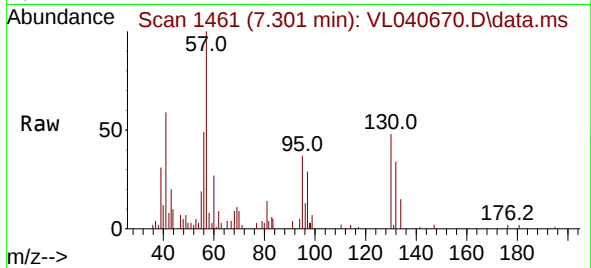
Tgt Ion: 78 Resp: 90018
Ion Ratio Lower Upper
78 100
77 17.6 18.2 27.2
50 18.0 15.0 22.6





#38
Trichloroethene
Concen: 0.116 ppbv m
RT: 7.301 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

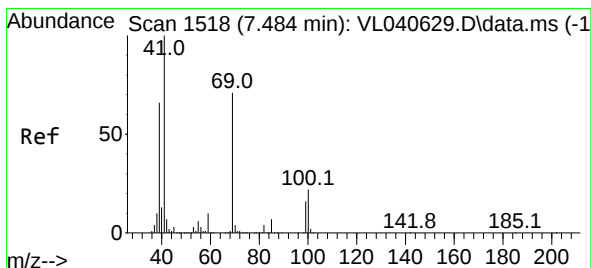
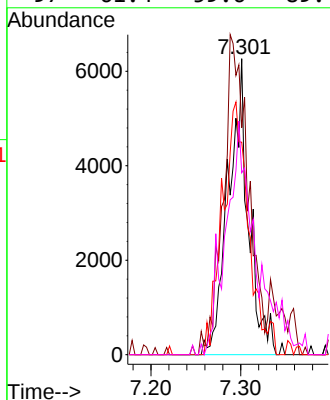
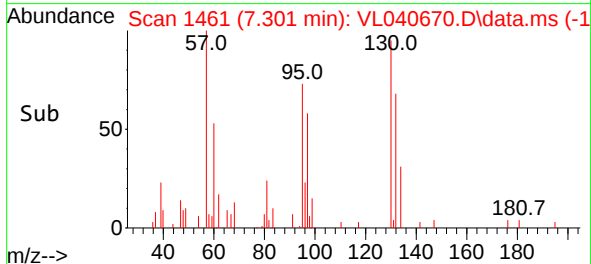


Tgt Ion:130 Resp: 977

Ion	Ratio	Lower	Upper
130	100		
95	76.7	95.9	143.9
132	71.8	79.0	118.4
97	61.4	59.6	89.4

Manual Integrations
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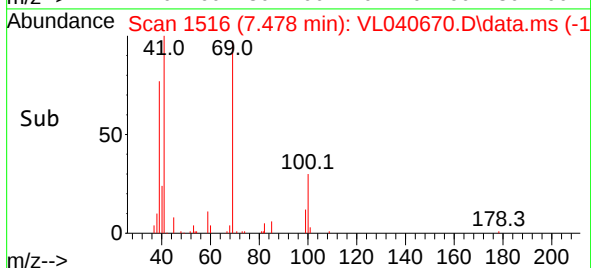
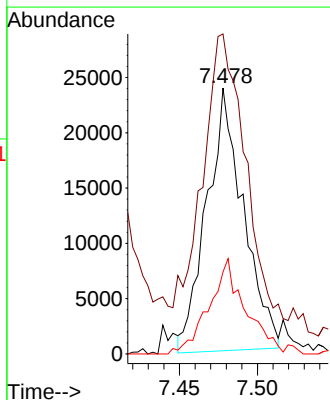
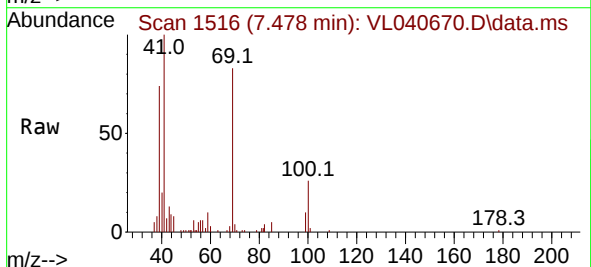
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023

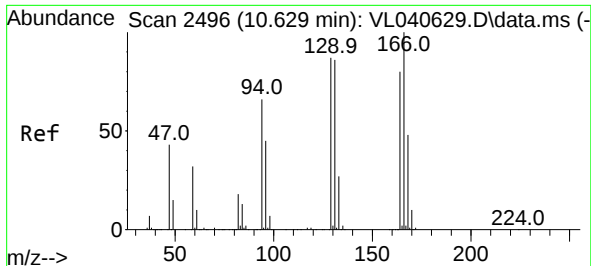


#43
Methyl Methacrylate
Concen: 0.480 ppbv
RT: 7.478 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

Tgt Ion: 69 Resp: 39022

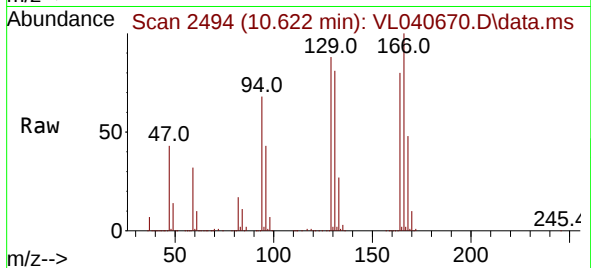
Ion	Ratio	Lower	Upper
69	100		
41	145.9	111.8	167.8
100	36.6	25.8	38.6





#52
Tetrachloroethene
Concen: 36.232 ppbv
RT: 10.622 min Scan# 2496
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

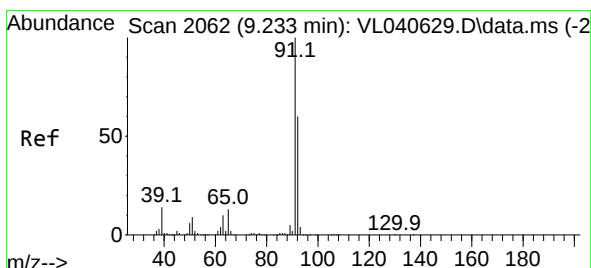
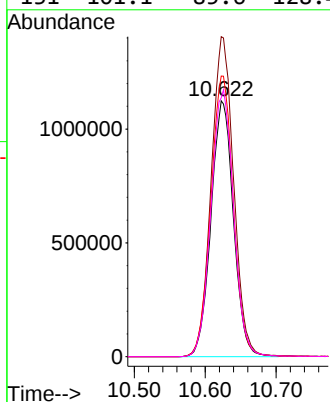
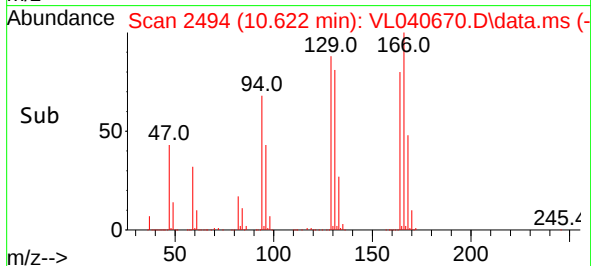
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 246197
Ion Ratio Lower Upper
164 100
166 125.0 99.5 149.3
129 109.7 86.9 130.3
131 101.1 85.6 128.4

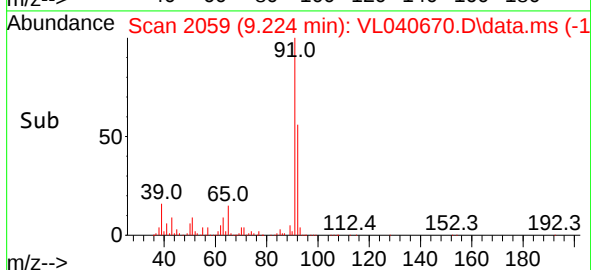
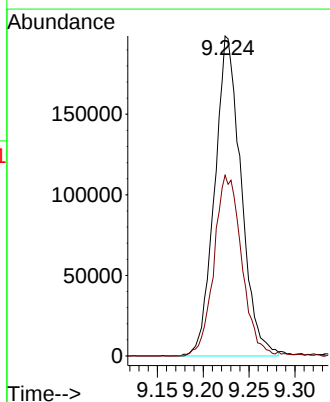
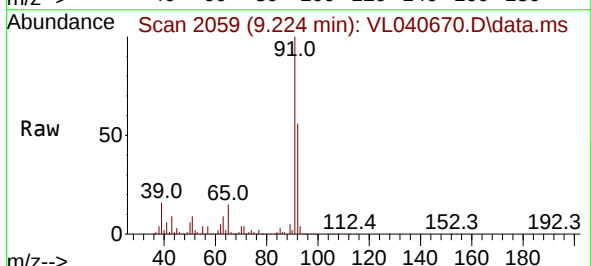
Manual Integrations
APPROVED

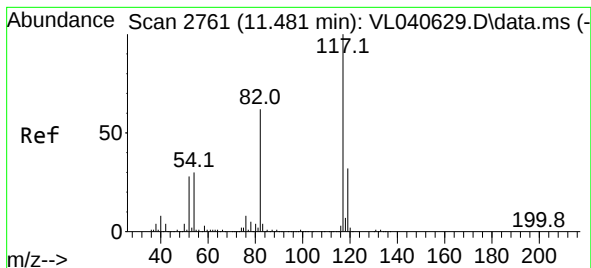
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#53
Toluene
Concen: 1.726 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. -0.010 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

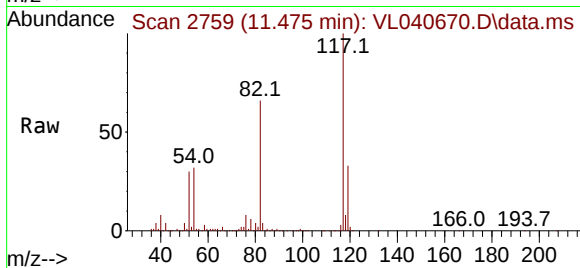
Tgt Ion: 91 Resp: 398015
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

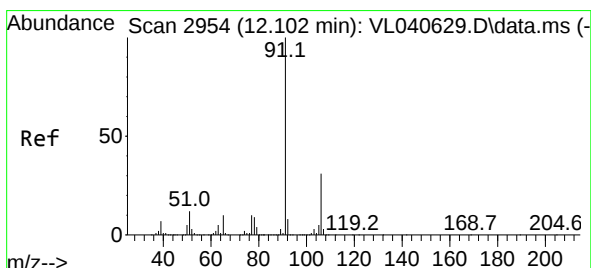
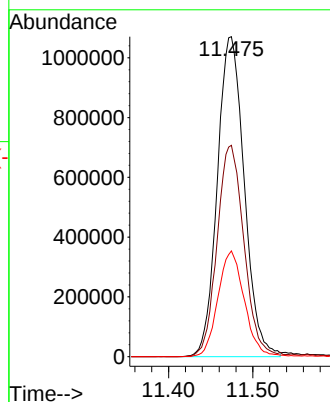
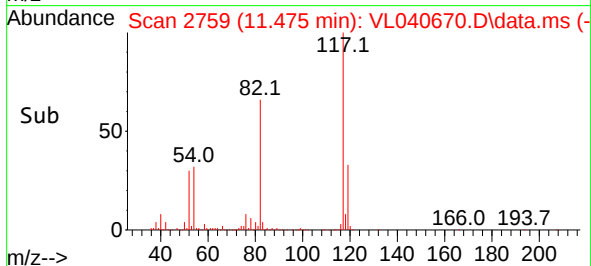
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 237529
Ion Ratio Lower Upper
117 100
82 67.2 49.5 74.3
119 32.7 24.5 36.7

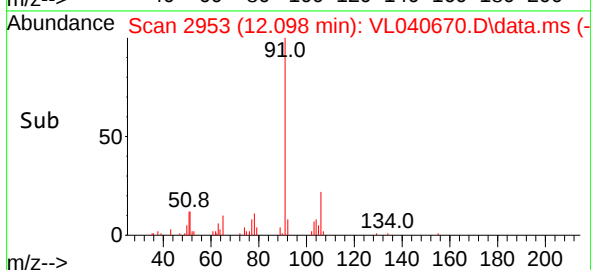
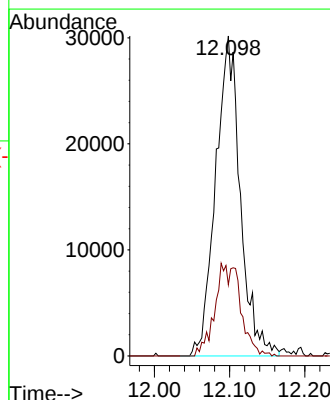
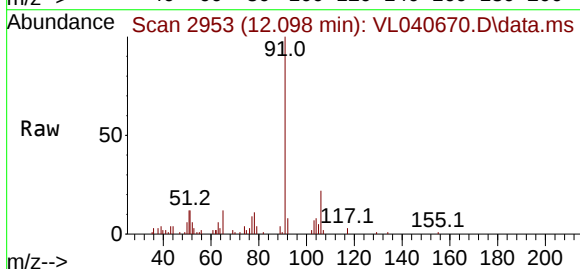
Manual Integrations
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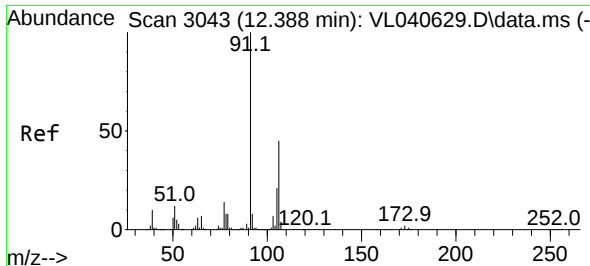
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#58
Ethyl Benzene
Concen: 0.240 ppbv m
RT: 12.098 min Scan# 2953
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

Tgt Ion: 91 Resp: 68694
Ion Ratio Lower Upper
91 100
106 22.3 24.6 36.8#





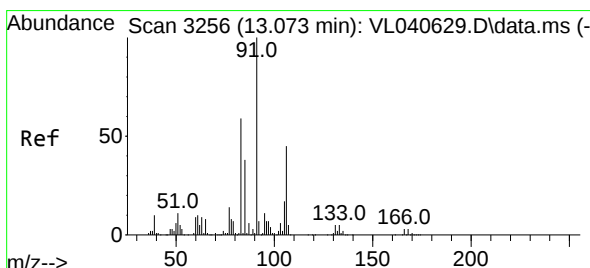
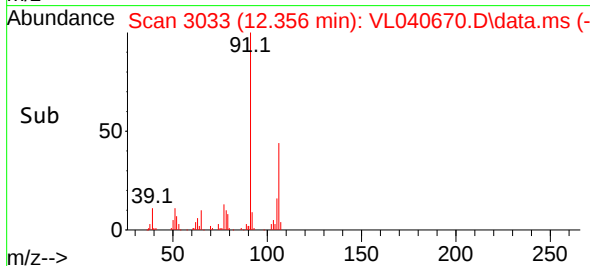
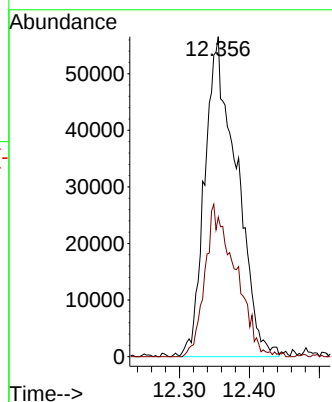
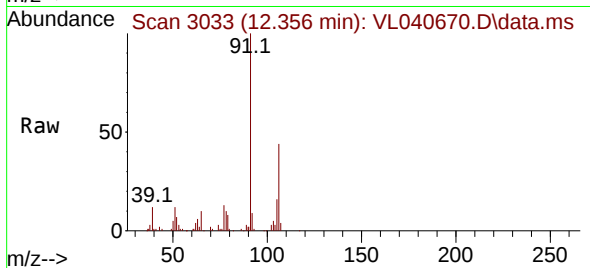
#59
m/p-Xylene
Concen: 0.683 ppbv m
RT: 12.356 min Scan# 3043
Delta R.T. -0.032 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 178392
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9

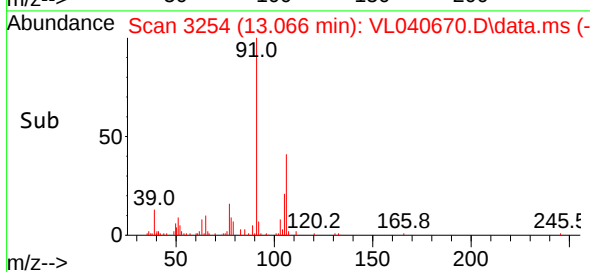
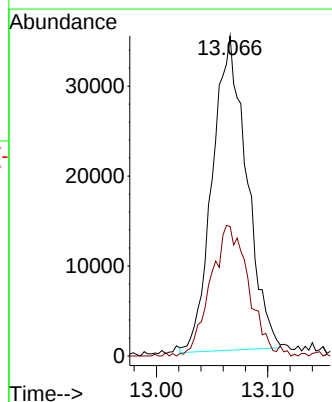
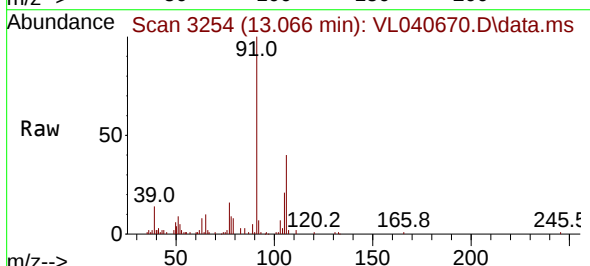
Manual Integrations
APPROVED

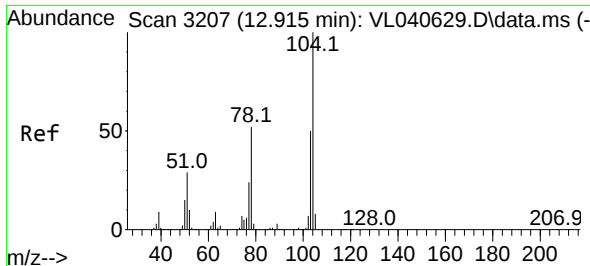
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#60
o-Xylene
Concen: 0.301 ppbv
RT: 13.066 min Scan# 3254
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

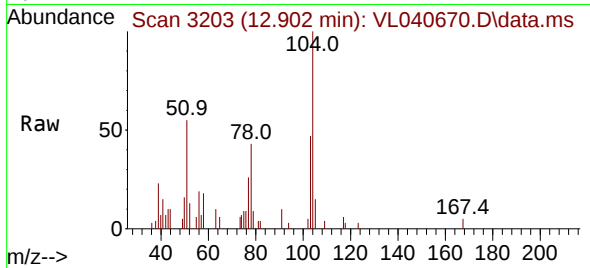
Tgt Ion: 91 Resp: 74588
Ion Ratio Lower Upper
91 100
106 46.8 22.5 67.5





#61
Styrene
Concen: 0.117 ppbv m
RT: 12.902 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

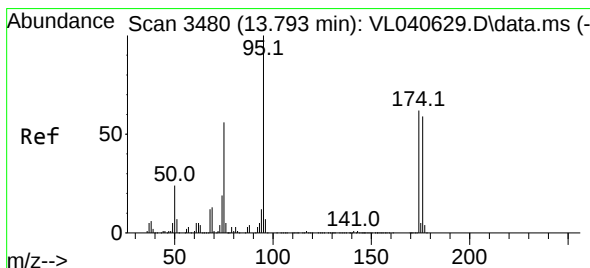
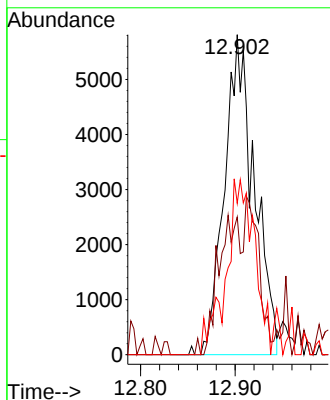
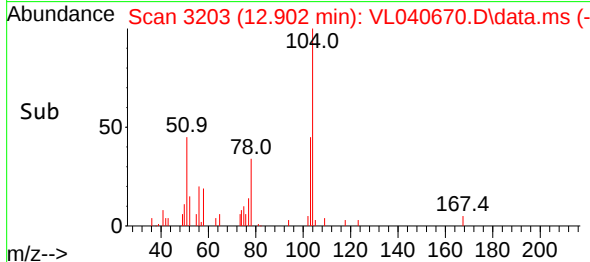
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:104 Resp: 1272
Ion Ratio Lower Upper
104 100
78 58.1 41.0 61.4
103 0.0 37.3 55.9

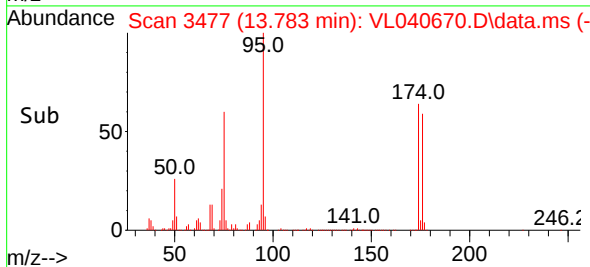
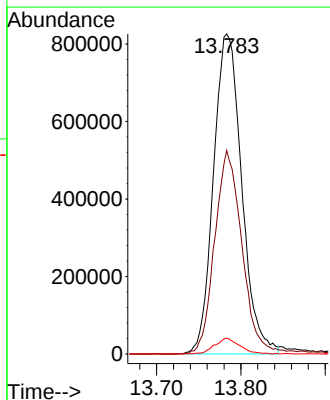
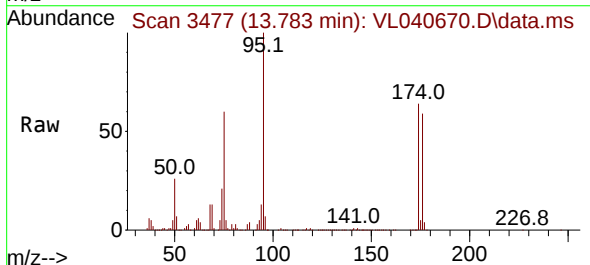
Manual Integrations
APPROVED

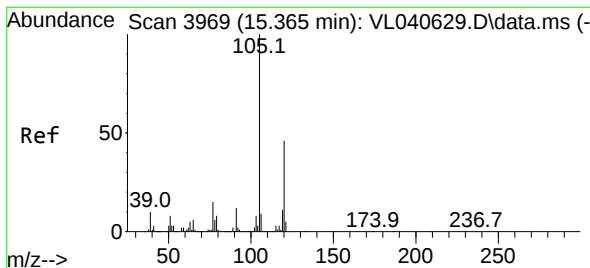
Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.171 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.010 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

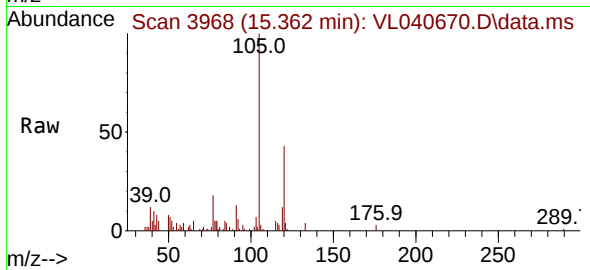
Tgt Ion: 95 Resp: 1921463
Ion Ratio Lower Upper
95 100
174 63.0 49.1 73.7
175 4.4 3.7 5.5





#73
1,3,5-Trimethylbenzene
Concen: 0.156 ppbv
RT: 15.362 min Scan# 3969
Delta R.T. -0.003 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35

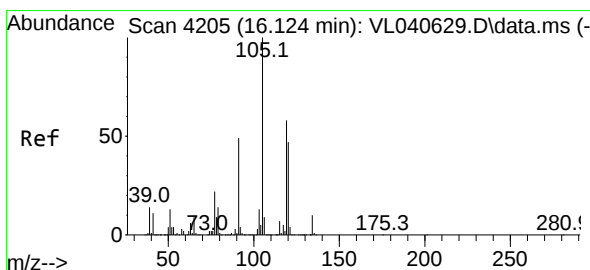
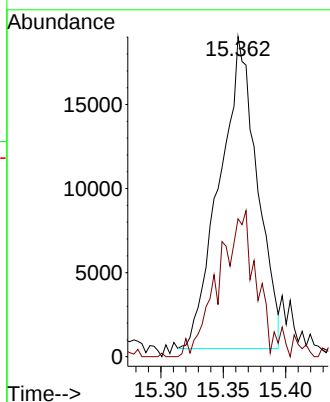
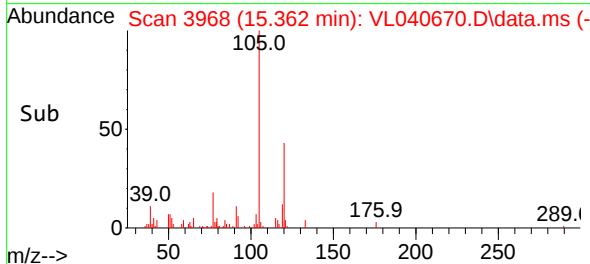
Instrument :
MSVOA_L
ClientSampleId :
IA1



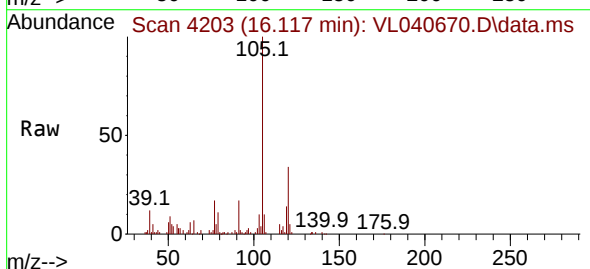
Tgt Ion:105 Resp: 38890
Ion Ratio Lower Upper
105 100
120 47.9 36.5 54.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2023
Supervised By :Mahesh Dadoda 09/11/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.425 ppbv
RT: 16.117 min Scan# 4203
Delta R.T. -0.006 min
Lab File: VL040670.D
Acq: 7 Sep 2023 13:35



Tgt Ion:105 Resp: 124106
Ion Ratio Lower Upper
105 100
120 34.4 37.7 56.5#
91 17.1 41.2 61.8#
77 16.7 18.3 27.5#

