

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040928.D
 Acq On : 21 Dec 2023 13:52
 Operator : SY/MD
 Sample : 05813-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10439

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:06:43 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		5.185	49	1094580	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.636	114	2824408	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.436	117	2394051	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.745	95	1763402	10.000	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.000%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane		2.748	85	106662	0.512	ppbv	98
3) Chlorodifluoromethane		2.697	51	78684	0.478	ppbv #	77
9) Propene		2.716	41	67790	1.247	ppbv	89
10) Heptane		7.555	43	41961	0.311	ppbv	91
11) Trichlorofluoromethane		3.575	101	37060	0.227	ppbv	89
13) Ethanol		3.250	45	541837	39.518	ppbv	100
15) Acetone		3.475	43	1764158	13.438	ppbv	98
19) Isopropyl Alcohol		3.584	45	4363877	63.706	ppbv #	98
20) Methylene Chloride		3.941	84	660787	14.121	ppbv	97
25) Ethyl Acetate		5.208	43	479374	2.107	ppbv #	82
26) Hexane		5.208	57	607092	6.022	ppbv #	42
27) Carbon Disulfide		4.131	76	34798	0.255	ppbv #	78
29) Chloroform		5.269	83	7243m	0.043	ppbv	
34) 2-Butanone		4.784	43	92878	0.622	ppbv	94
35) Carbon Tetrachloride		6.475	117	11380	0.064	ppbv #	95
36) Benzene		6.356	78	79595	0.360	ppbv #	89
44) 2,2,4-Trimethylpentane		7.304	57	196238m	0.523	ppbv	
53) Toluene		9.195	91	239720	0.979	ppbv	100
58) Ethyl Benzene		12.066	91	80186m	0.261	ppbv	
59) m/p-Xylene		12.317	91	237730m	0.909	ppbv	
60) o-Xylene		13.031	91	88101m	0.357	ppbv	
72) 4-Ethyltoluene		15.153	105	32398m	0.120	ppbv	
73) 1,3,5-Trimethylbenzene		15.323	105	25215m	0.108	ppbv	
74) 1,2,4-Trimethylbenzene		16.079	105	95150m	0.366	ppbv	

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

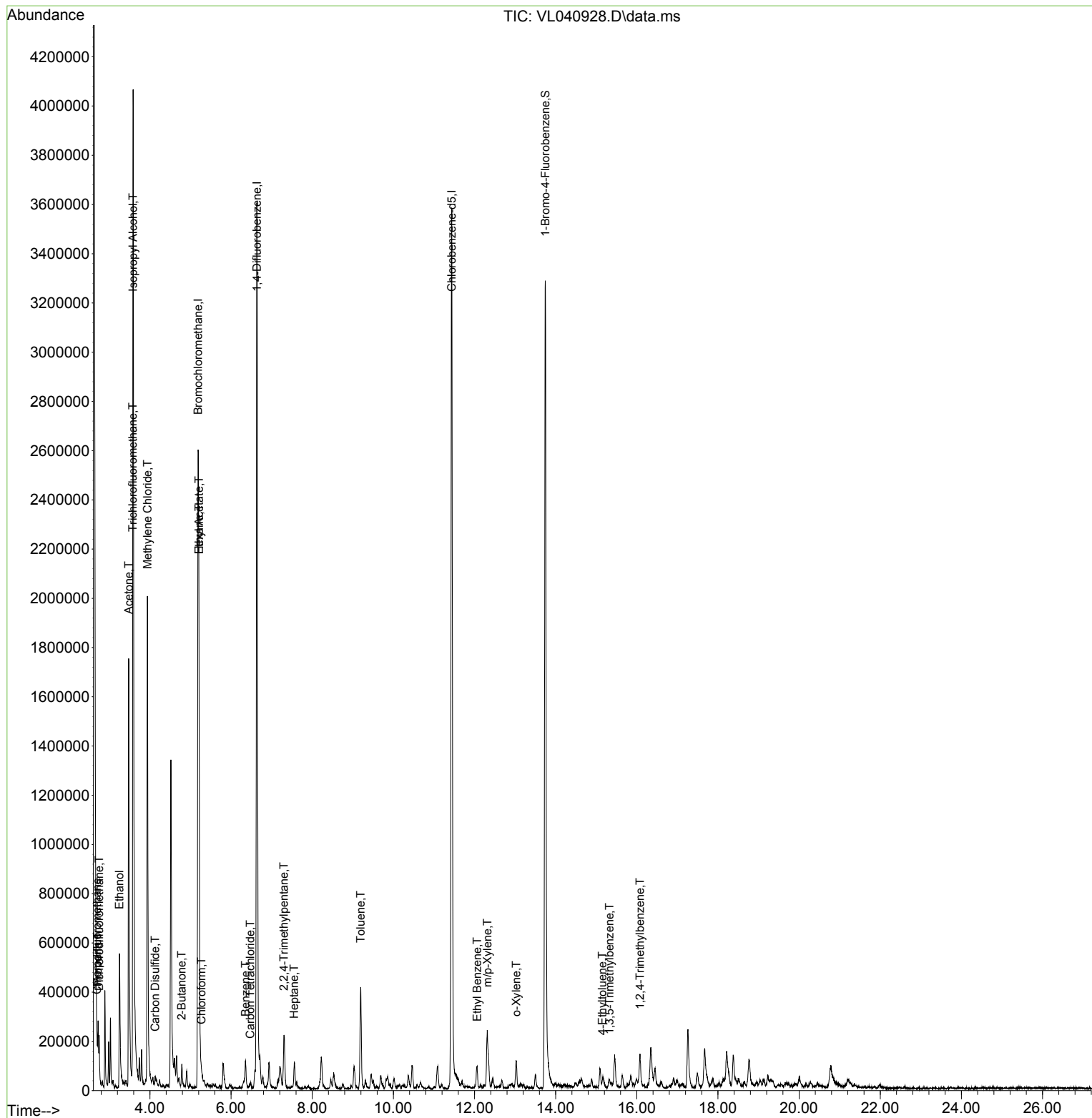
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040928.D
Acq On : 21 Dec 2023 13:52
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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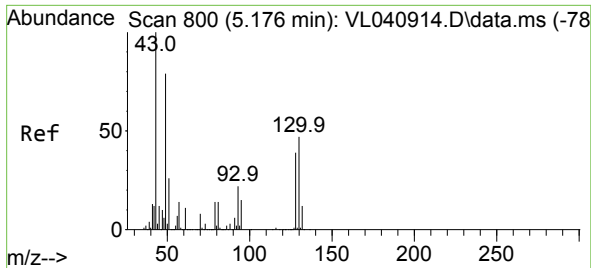
Instrument :
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Supervised By :Mahesh Dadoda 12/26/2023

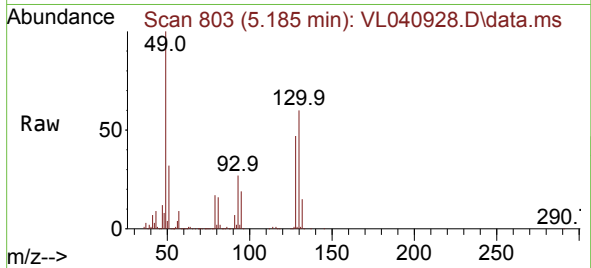
Quant Time: Dec 22 00:06:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

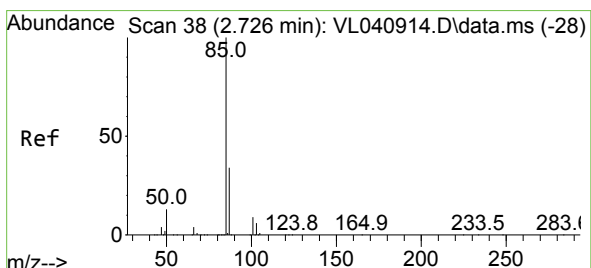
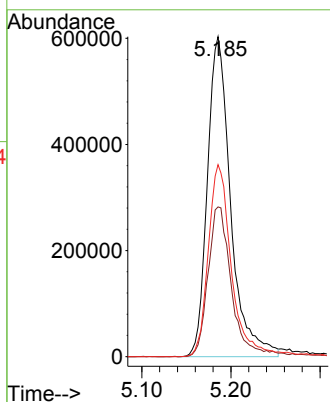
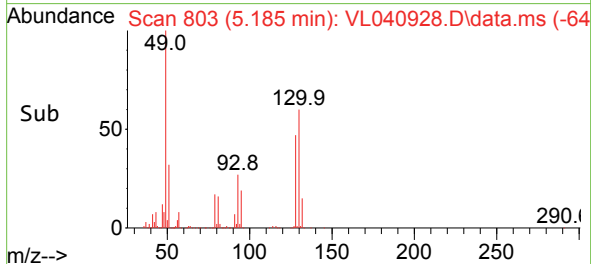
Instrument :
MSVOA_L
ClientSampleId :
10439



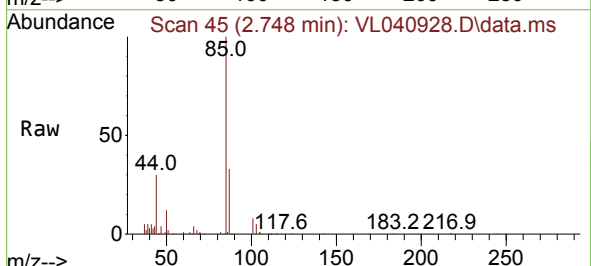
Tgt Ion: 49 Resp: 1094580
Ion Ratio Lower Upper
49 100
128 48.3 23.8 71.2
130 61.2 30.1 90.5

Manual Integrations
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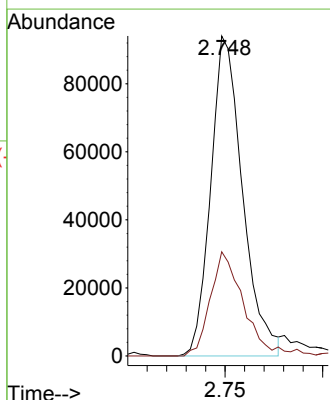
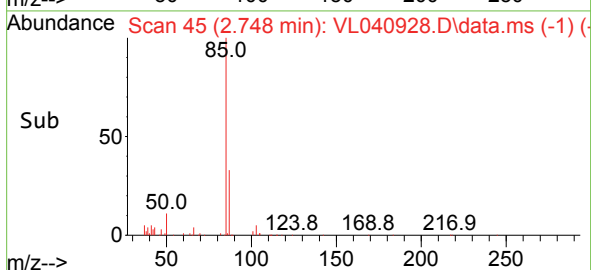
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

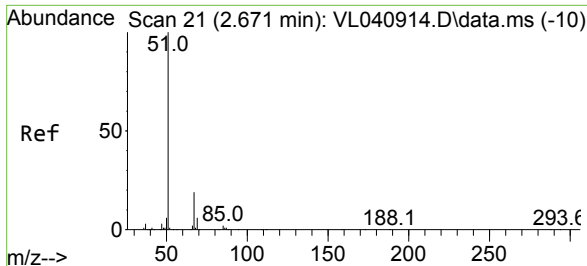


#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.023 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52



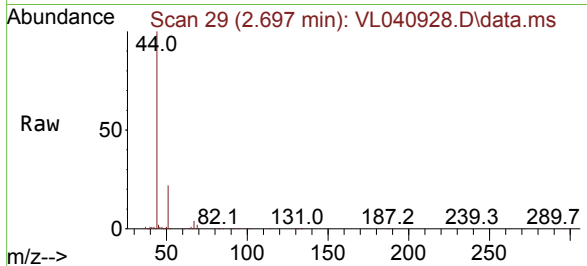
Tgt Ion: 85 Resp: 106662
Ion Ratio Lower Upper
85 100
87 32.5 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.478 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.026 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

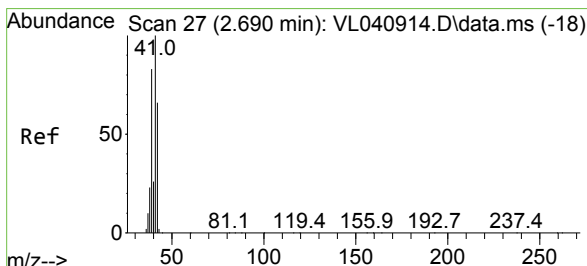
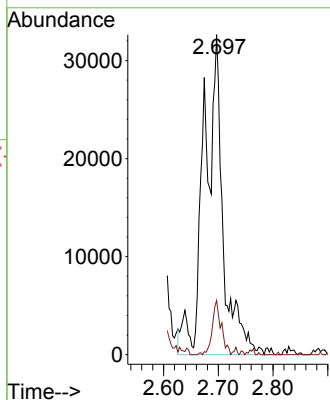
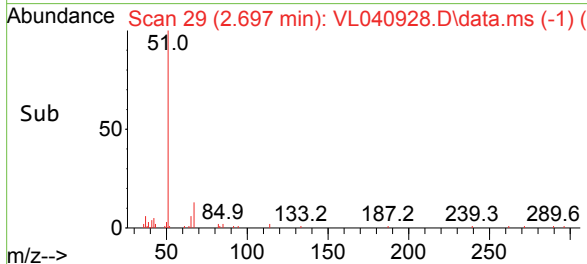
Instrument :
MSVOA_L
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10439



Tgt Ion: 51 Resp: 78684
Ion Ratio Lower Upper
51 100
67 8.0 14.7 22.1

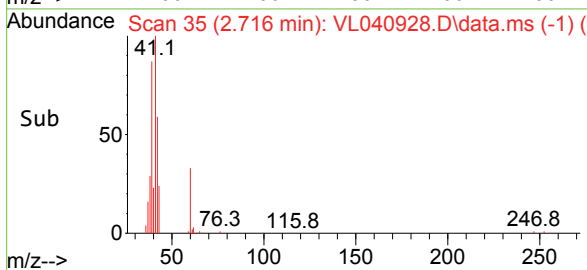
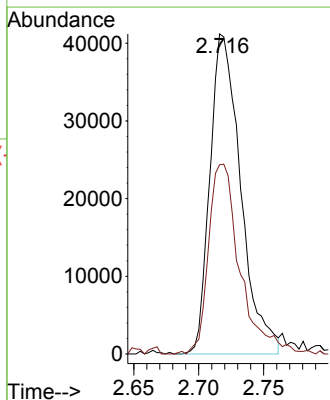
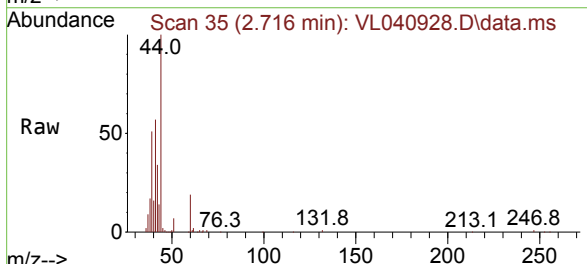
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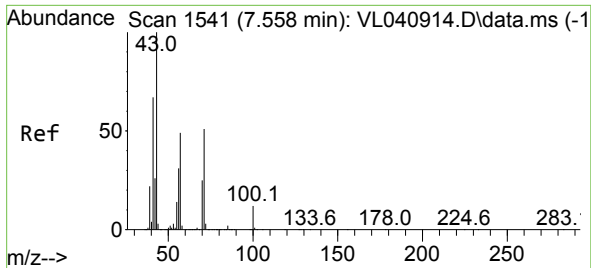
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#9
Propene
Concen: 1.247 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.026 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 41 Resp: 67790
Ion Ratio Lower Upper
41 100
42 60.7 55.8 83.6





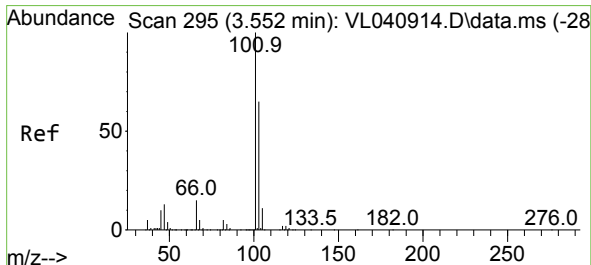
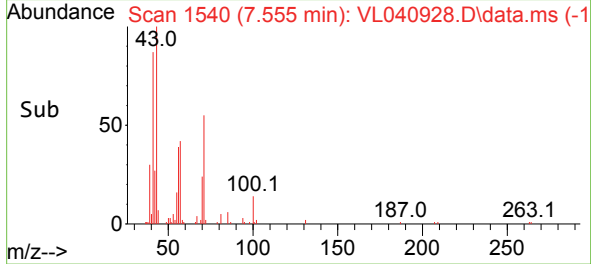
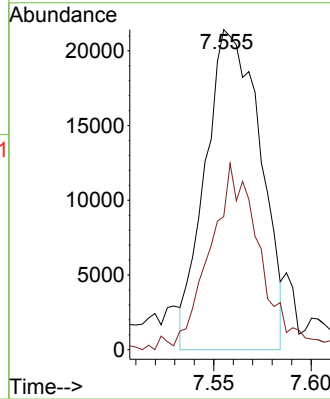
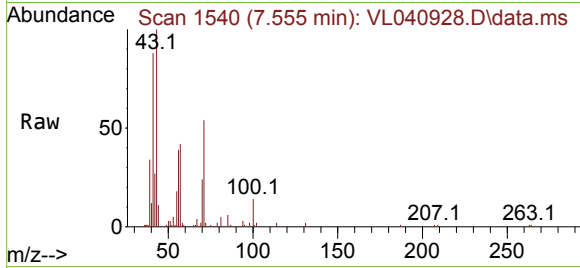
#10
Heptane
Concen: 0.311 ppbv
RT: 7.555 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
10439

Tgt Ion: 43 Resp: 4196
Ion Ratio Lower Upper
43 100
57 55.1 39.3 58.9

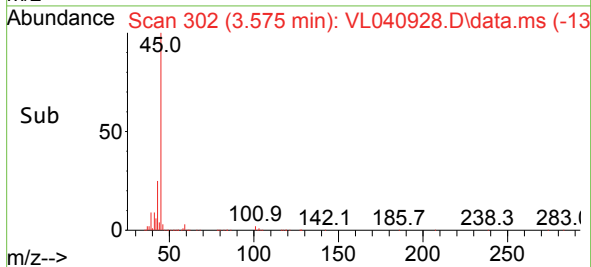
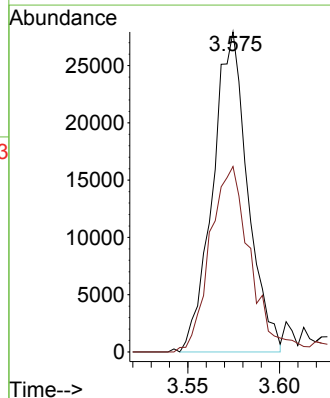
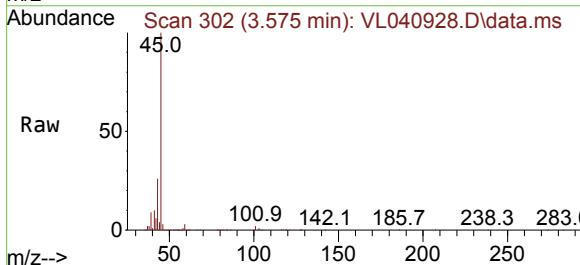
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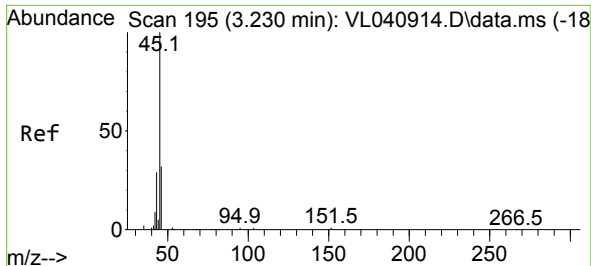
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.023 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

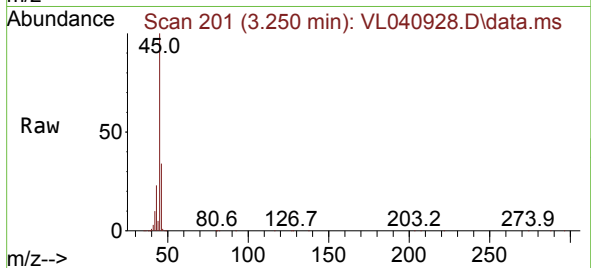
Tgt Ion:101 Resp: 37060
Ion Ratio Lower Upper
101 100
103 56.5 51.9 77.9





#13
Ethanol
Concen: 39.518 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.019 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

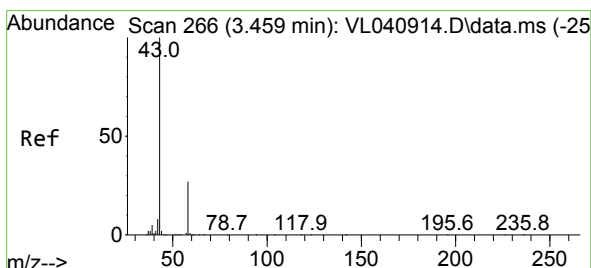
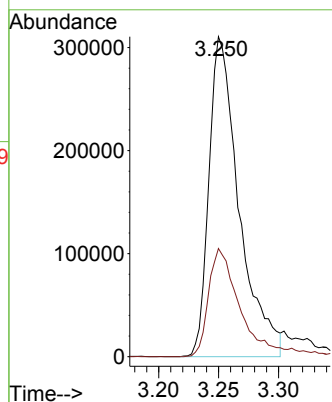
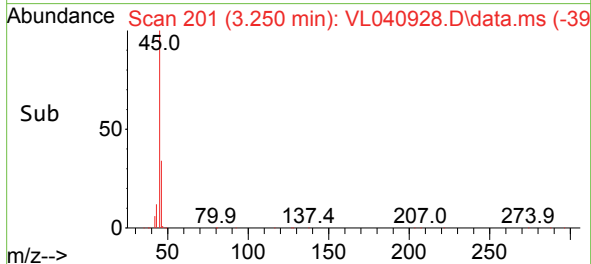
Instrument :
MSVOA_L
ClientSampleId :
10439



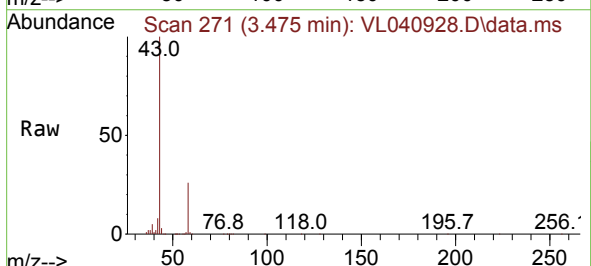
Tgt Ion: 45 Resp: 54183
Ion Ratio Lower Upper
45 100
46 37.7 15.0 60.0

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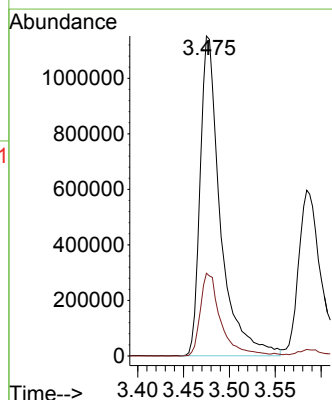
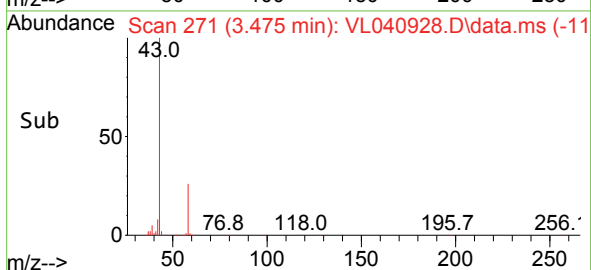
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

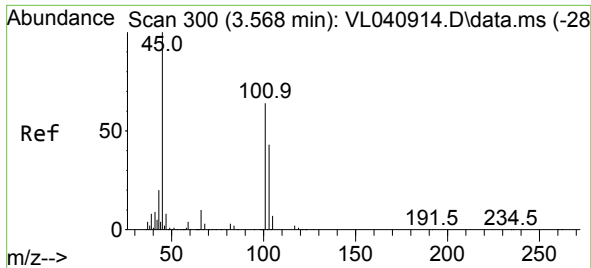


#15
Acetone
Concen: 13.438 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.016 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52



Tgt Ion: 43 Resp: 1764158
Ion Ratio Lower Upper
43 100
58 26.6 20.6 30.8





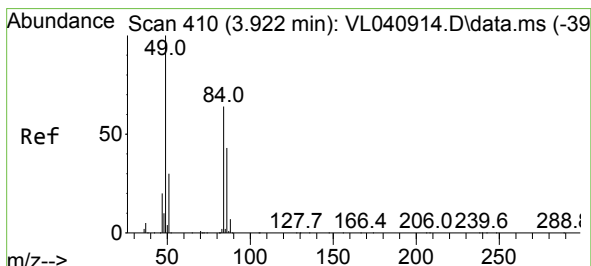
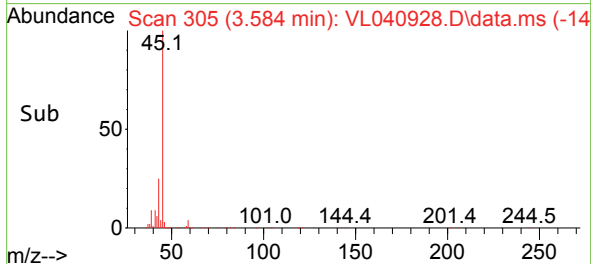
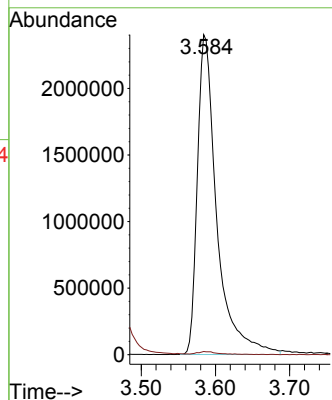
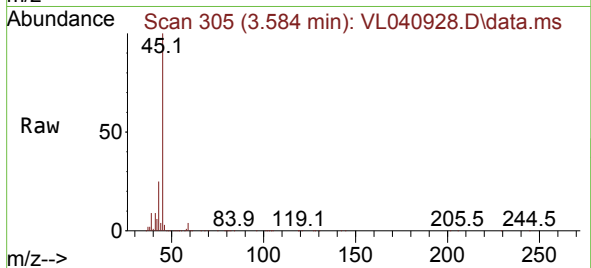
#19
Isopropyl Alcohol
Concen: 63.706 ppbv
RT: 3.584 min Scan# 300
Delta R.T. 0.016 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
10439

Tgt Ion: 45 Resp: 436387
Ion Ratio Lower Upper
45 100
58 1.2 1.5 2.3

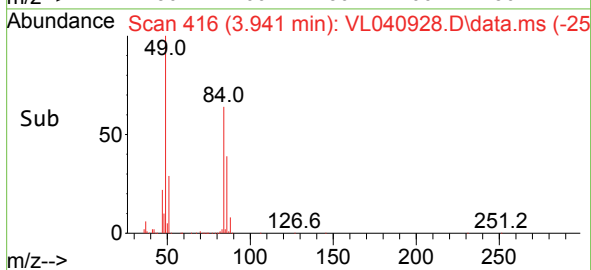
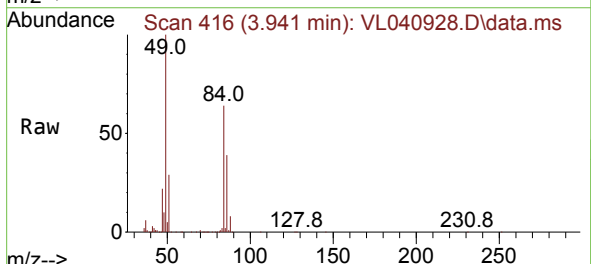
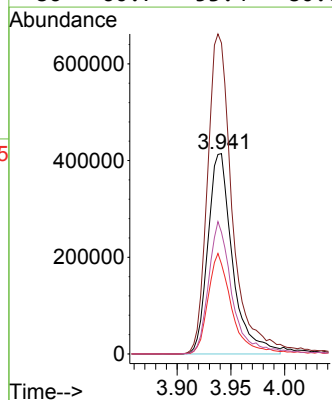
Manual Integrations
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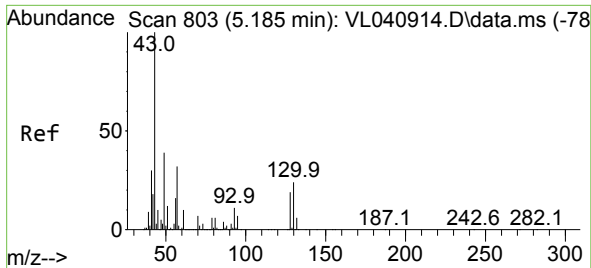
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#20
Methylene Chloride
Concen: 14.121 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.019 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

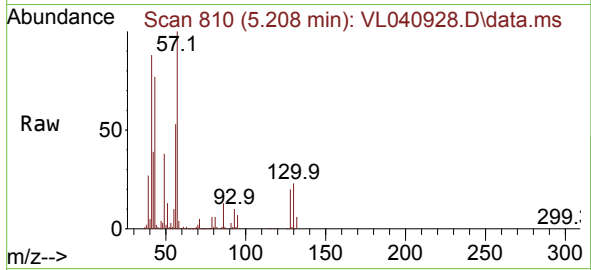
Tgt Ion: 84 Resp: 660787
Ion Ratio Lower Upper
84 100
49 155.2 124.6 187.0
51 44.8 37.2 55.8
86 60.7 53.4 80.0





#25
Ethyl Acetate
Concen: 2.107 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.023 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

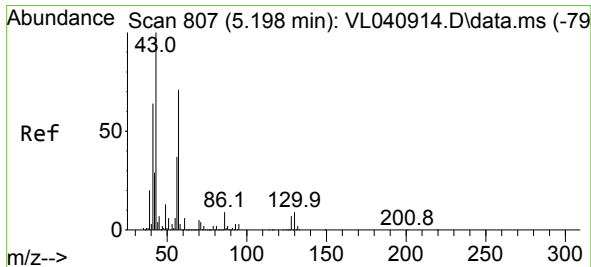
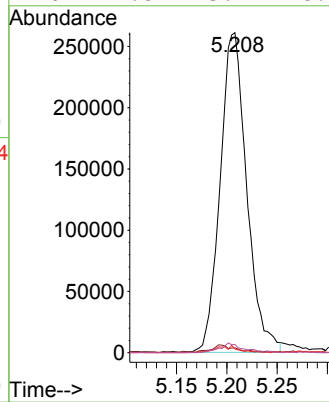
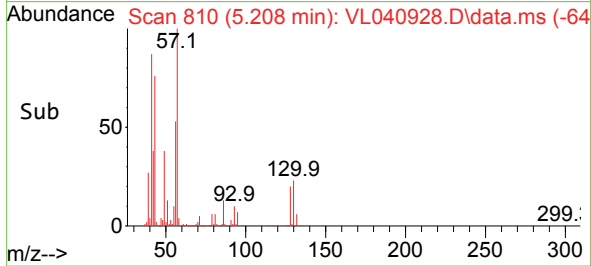
Instrument :
MSVOA_L
ClientSampleId :
10439



Tgt Ion: 43 Resp: 479374
Ion Ratio Lower Upper
43 100
45 2.7 8.2 12.2
61 1.9 7.6 11.4
70 2.8 5.4 8.2

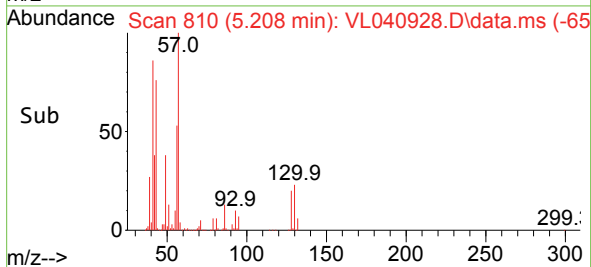
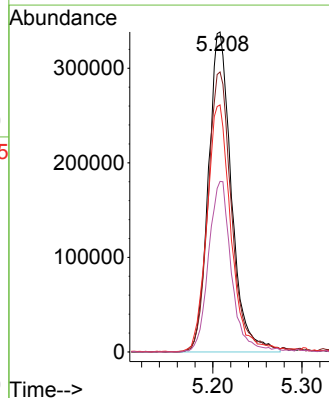
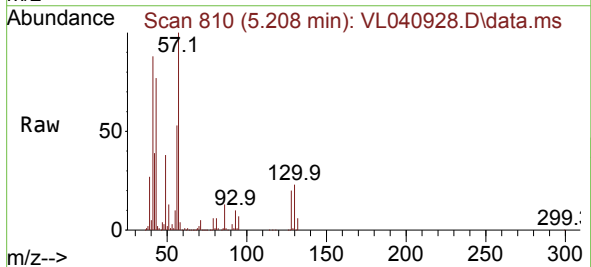
Manual Integrations
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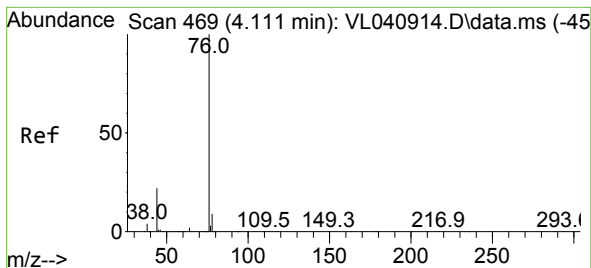
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#26
Hexane
Concen: 6.022 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 57 Resp: 607092
Ion Ratio Lower Upper
57 100
41 90.4 75.2 112.8
43 81.0 188.0 282.0
56 53.7 42.3 63.5





#27

Carbon Disulfide

Concen: 0.255 ppbv

RT: 4.131 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL040928.D

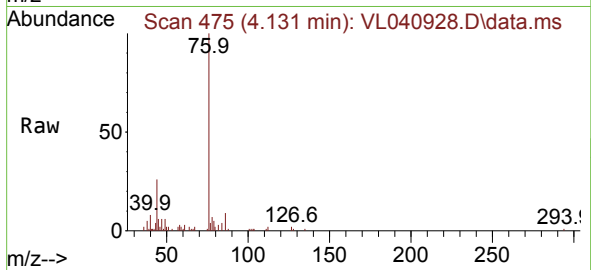
Acq: 21 Dec 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

10439



Tgt Ion: 76 Resp: 34798

Ion Ratio Lower Upper

76 100

44 36.7 18.4 27.6

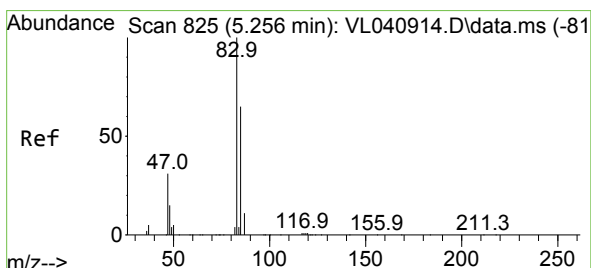
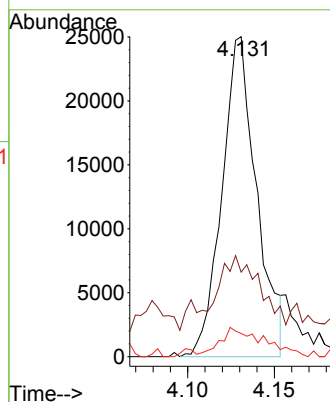
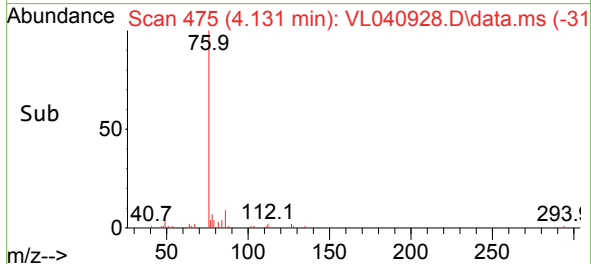
78 12.6 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#29

Chloroform

Concen: 0.043 ppbv m

RT: 5.269 min Scan# 829

Delta R.T. 0.013 min

Lab File: VL040928.D

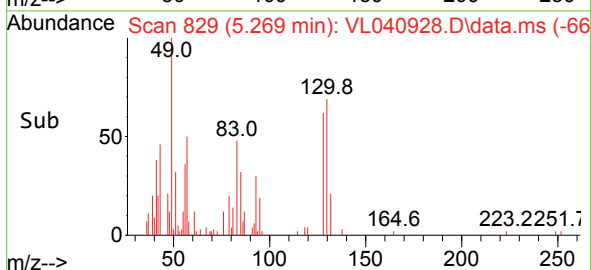
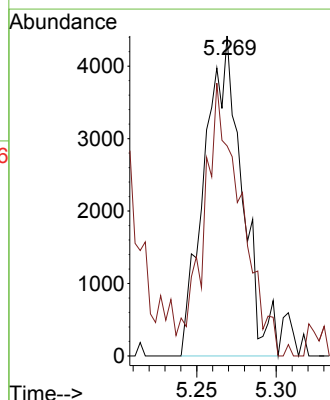
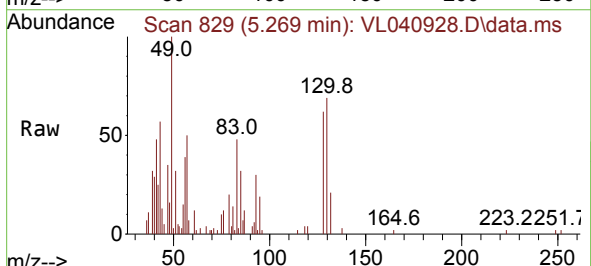
Acq: 21 Dec 2023 13:52

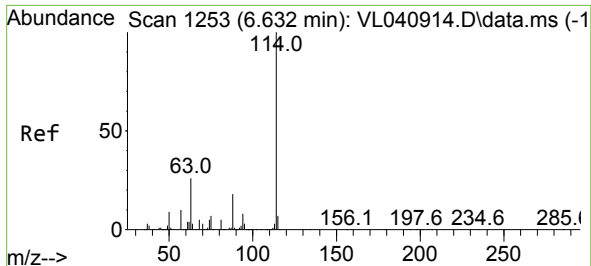
Tgt Ion: 83 Resp: 7243

Ion Ratio Lower Upper

83 100

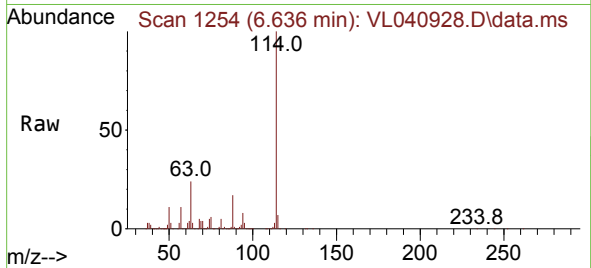
85 65.6 52.3 78.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 114
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

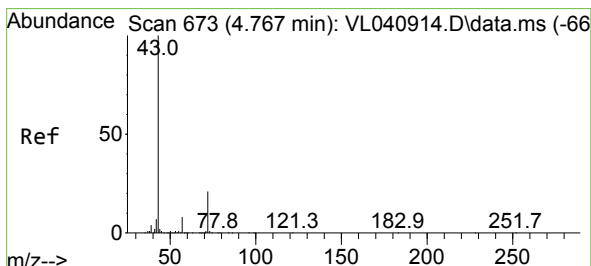
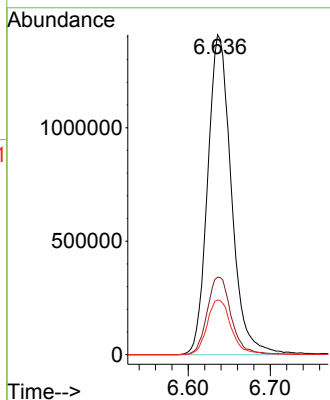
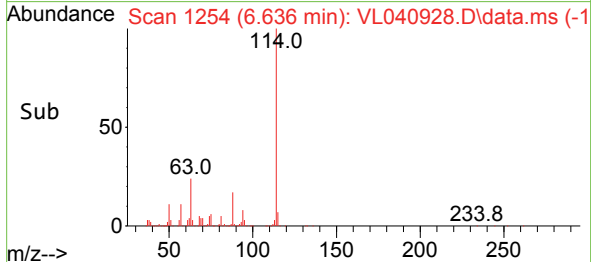
Instrument :
MSVOA_L
ClientSampleId :
10439



Tgt Ion:114 Resp: 2824408
Ion Ratio Lower Upper
114 100
63 25.0 21.0 31.6
88 17.6 14.3 21.5

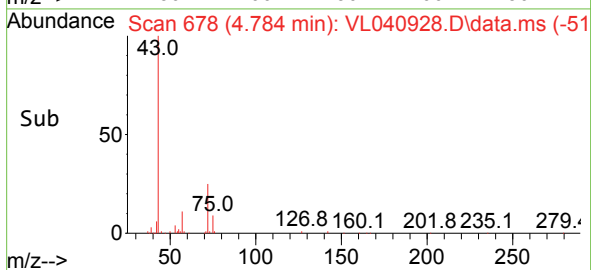
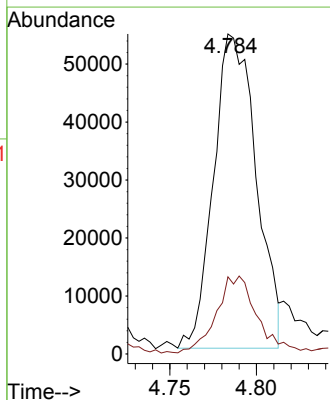
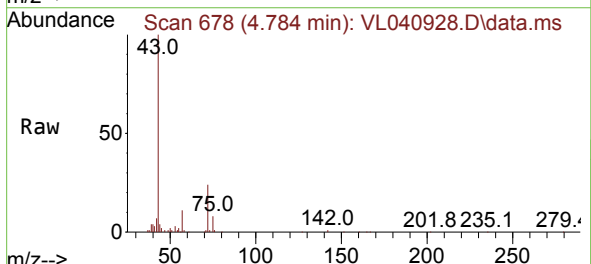
Manual Integrations
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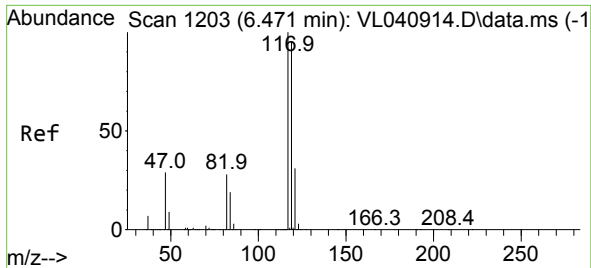
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#34
2-Butanone
Concen: 0.622 ppbv
RT: 4.784 min Scan# 678
Delta R.T. 0.016 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

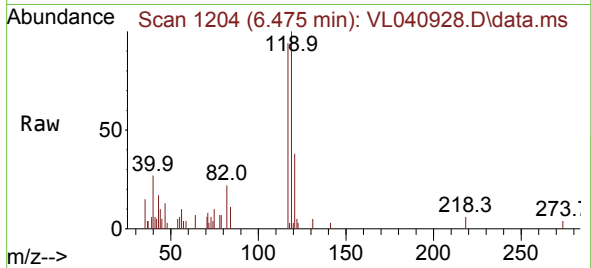
Tgt Ion: 43 Resp: 92878
Ion Ratio Lower Upper
43 100
72 24.2 17.2 25.8





#35
Carbon Tetrachloride
Concen: 0.064 ppbv
RT: 6.475 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

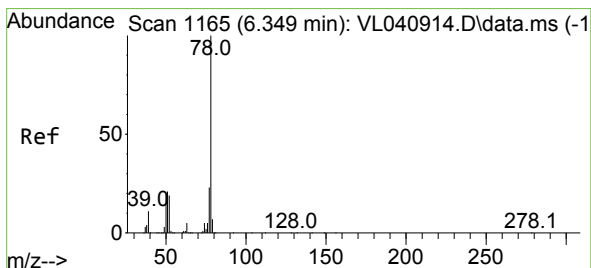
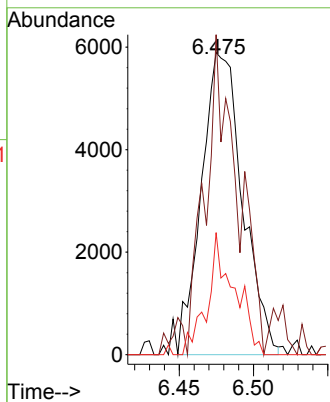
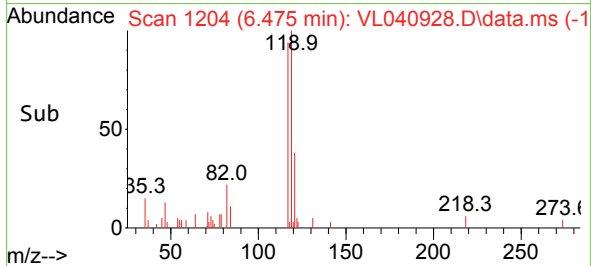
Instrument :
MSVOA_L
ClientSampleId :
10439



Tgt Ion:117 Resp: 1138
Ion Ratio Lower Upper
117 100
119 94.6 76.3 114.5
121 40.4 24.9 37.3

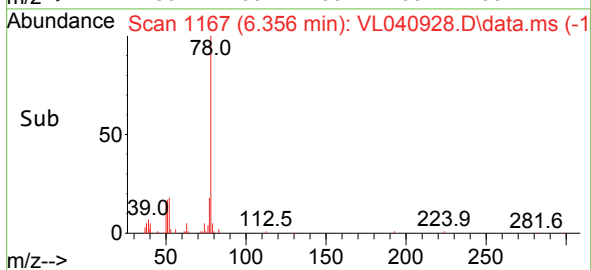
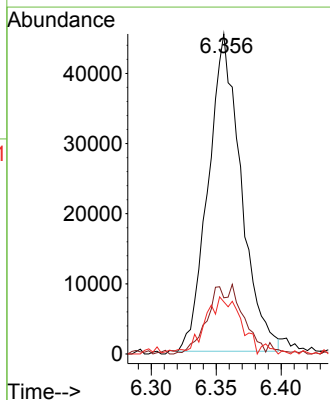
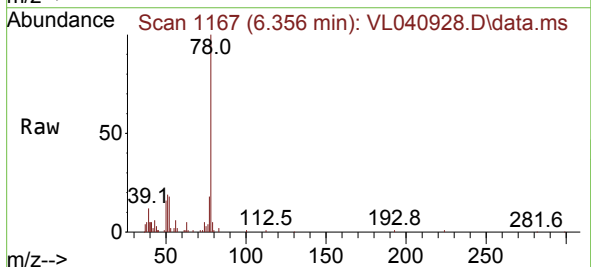
Manual Integrations
APPROVED

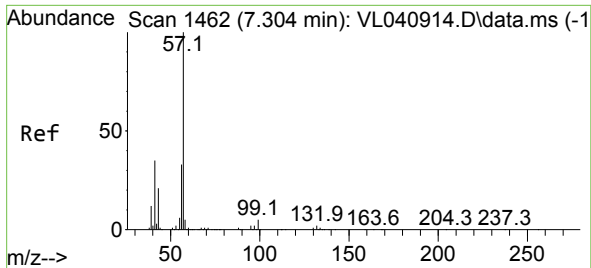
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#36
Benzene
Concen: 0.360 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. 0.007 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

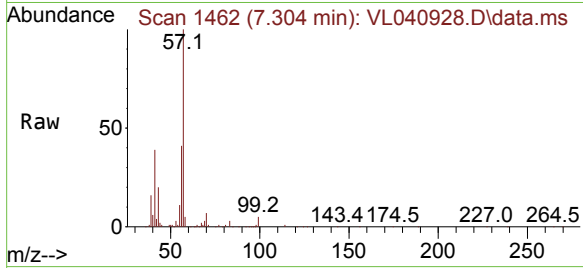
Tgt Ion: 78 Resp: 79595
Ion Ratio Lower Upper
78 100
77 16.3 18.4 27.6#
50 16.5 16.0 24.0





#44
2,2,4-Trimethylpentane
Concen: 0.523 ppbv m
RT: 7.304 min Scan# 1462
Delta R.T. 0.000 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

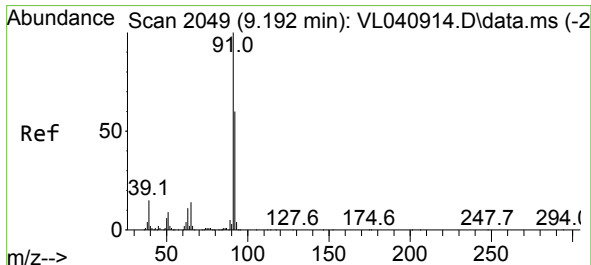
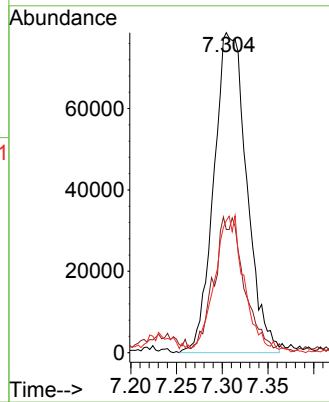
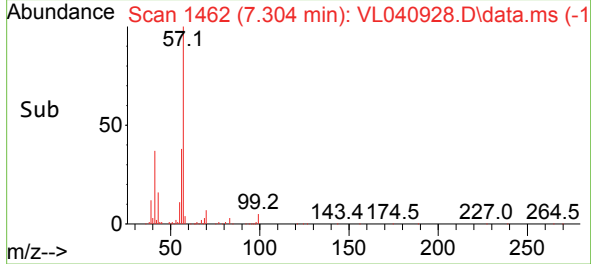
Instrument : MSVOA_L
ClientSampleId : 10439



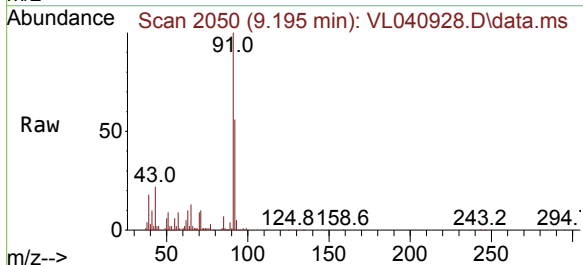
Tgt Ion: 57 Resp: 196238
Ion Ratio Lower Upper
57 100
41 39.6 28.2 42.4
56 0.0 25.3 37.9

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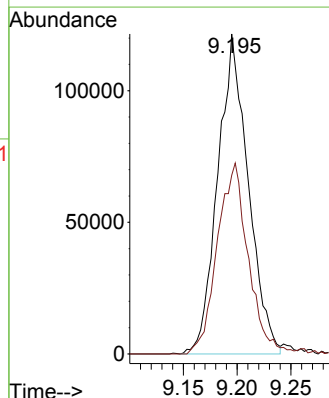
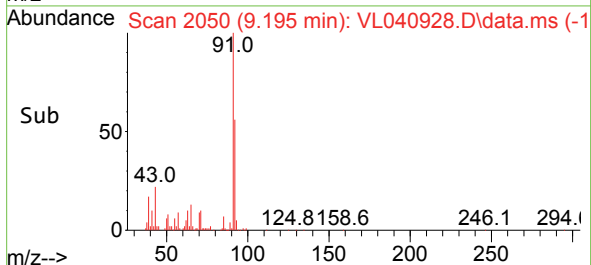
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

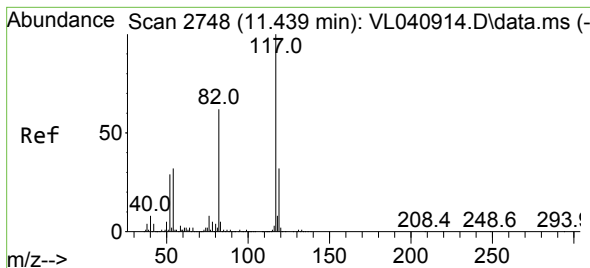


#53
Toluene
Concen: 0.979 ppbv
RT: 9.195 min Scan# 2050
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52



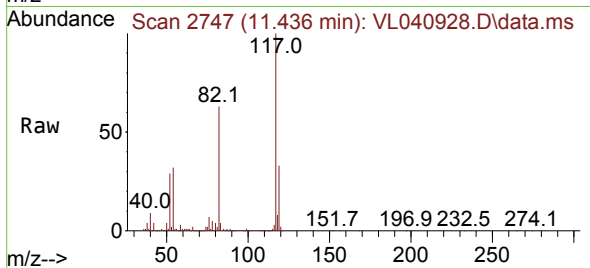
Tgt Ion: 91 Resp: 239720
Ion Ratio Lower Upper
91 100
92 61.1 49.2 73.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

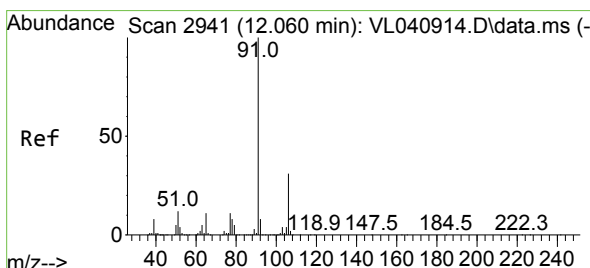
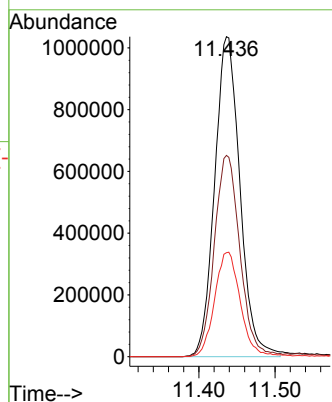
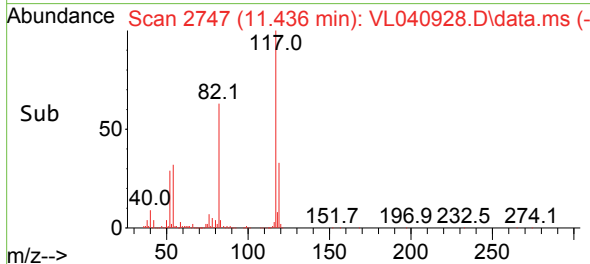
Instrument :
MSVOA_L
ClientSampleId :
10439



Tgt Ion:117 Resp: 239405
Ion Ratio Lower Upper
117 100
82 65.5 49.6 74.4
119 33.4 23.4 35.0

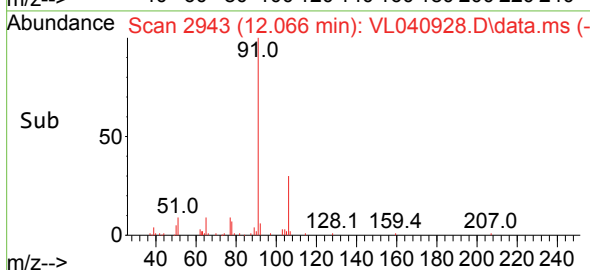
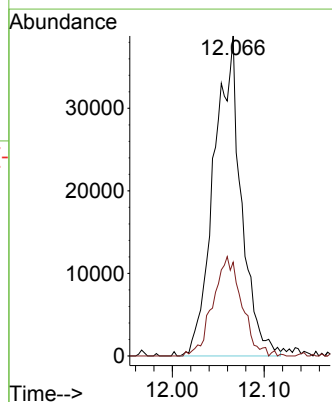
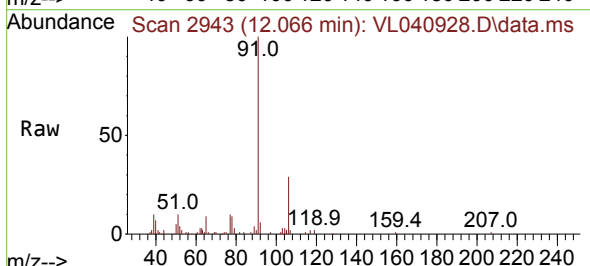
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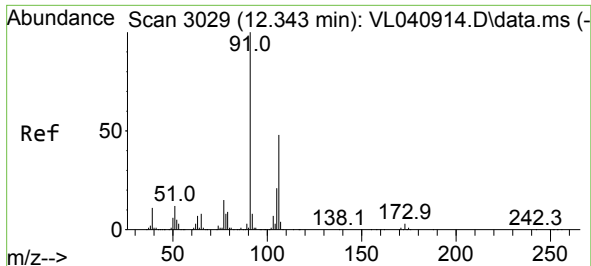
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#58
Ethyl Benzene
Concen: 0.261 ppbv m
RT: 12.066 min Scan# 2943
Delta R.T. 0.007 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 91 Resp: 80186
Ion Ratio Lower Upper
91 100
106 29.3 24.9 37.3





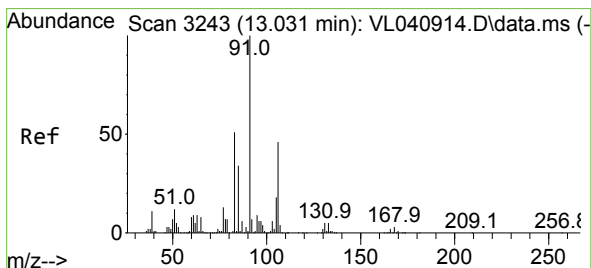
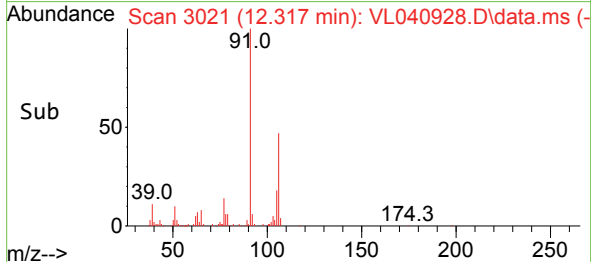
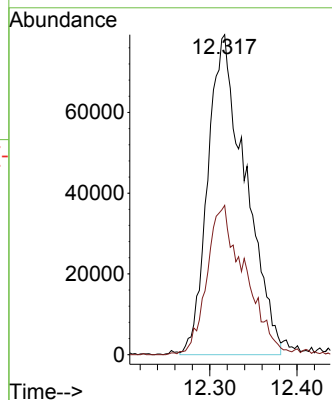
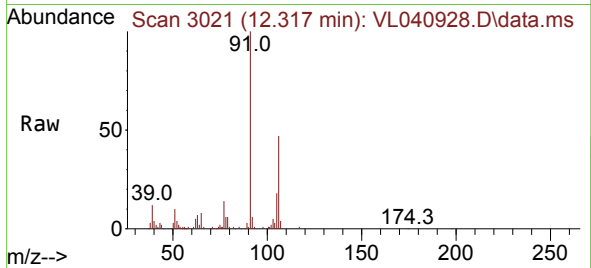
#59
m/p-Xylene
Concen: 0.909 ppbv m
RT: 12.317 min Scan# 3029
Delta R.T. -0.026 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
10439

Tgt Ion: 91 Resp: 237730
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

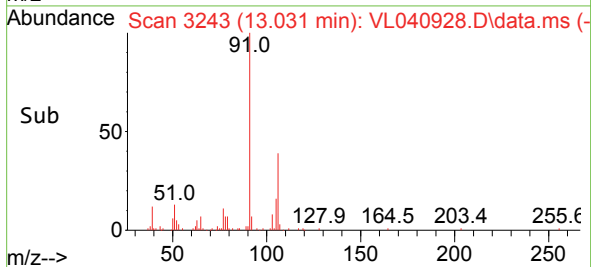
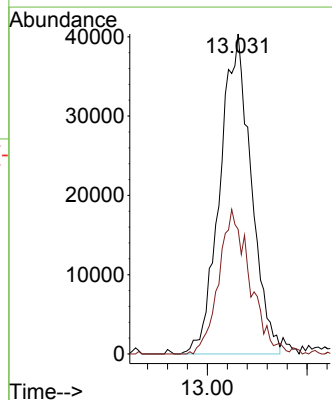
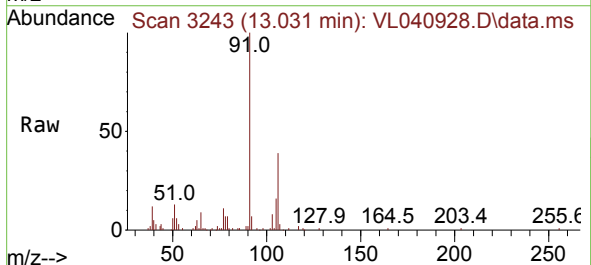
Manual Integrations
APPROVED

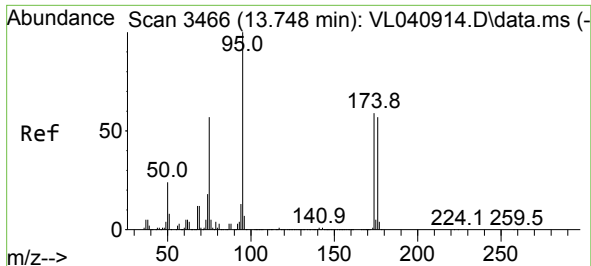
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#60
o-Xylene
Concen: 0.357 ppbv m
RT: 13.031 min Scan# 3243
Delta R.T. 0.000 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

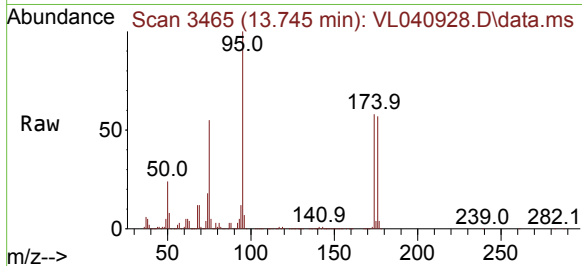
Tgt Ion: 91 Resp: 88101
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.000 ppbv
RT: 13.745 min Scan# 3466
Delta R.T. -0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

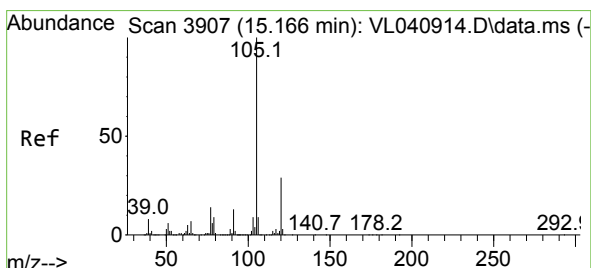
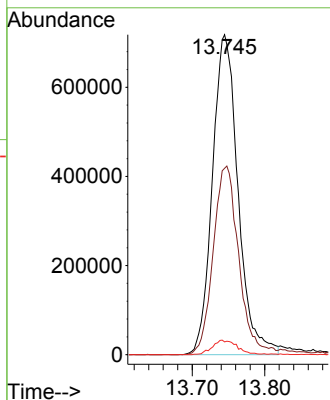
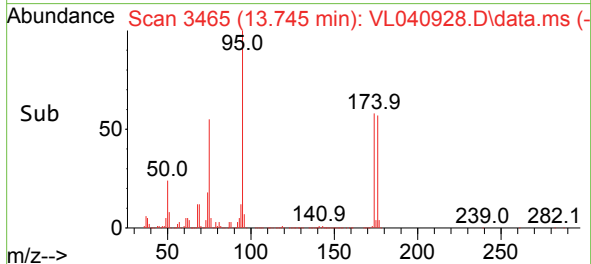
Instrument :
MSVOA_L
ClientSampleId :
10439



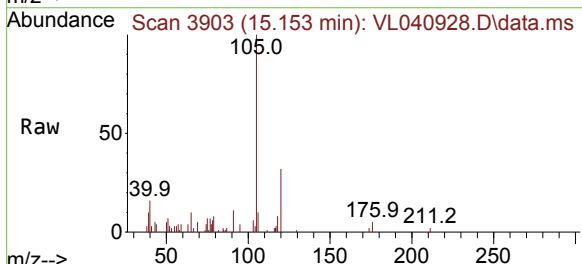
Tgt Ion: 95 Resp: 176340
Ion Ratio Lower Upper
95 100
174 60.7 48.0 72.0
175 4.5 3.7 5.5

Manual Integrations
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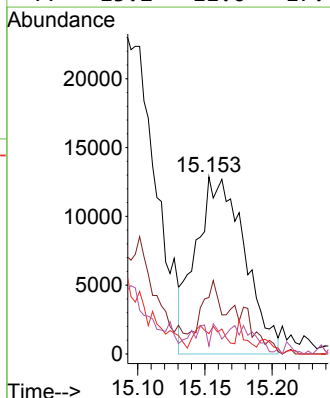
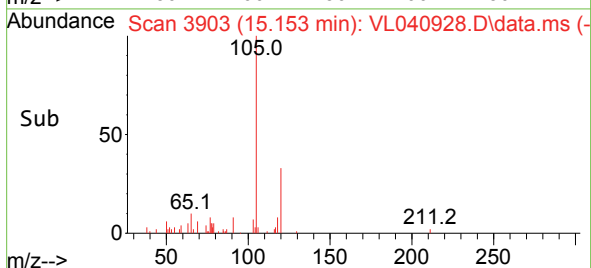
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

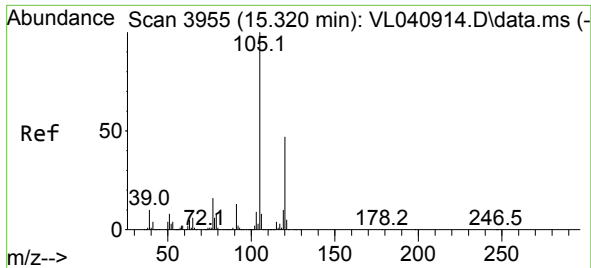


#72
4-Ethyltoluene
Concen: 0.120 ppbv m
RT: 15.153 min Scan# 3903
Delta R.T. -0.013 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52



Tgt Ion:105 Resp: 32398
Ion Ratio Lower Upper
105 100
120 32.4 23.8 35.8
91 0.0 10.9 16.3#
77 13.2 11.6 17.4





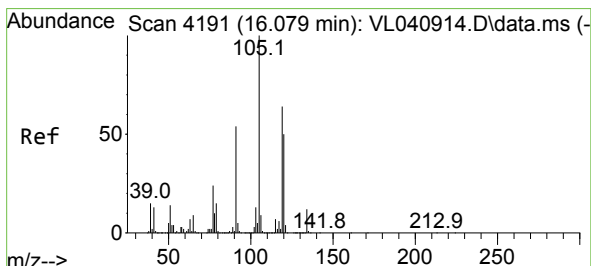
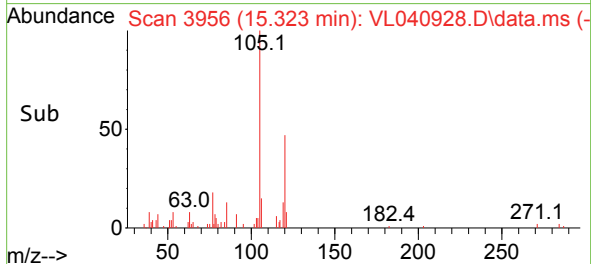
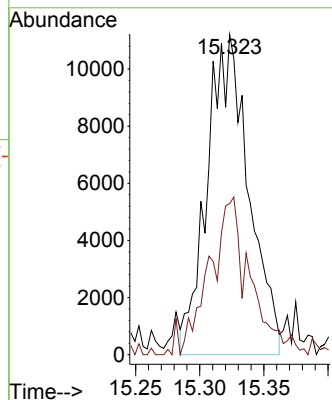
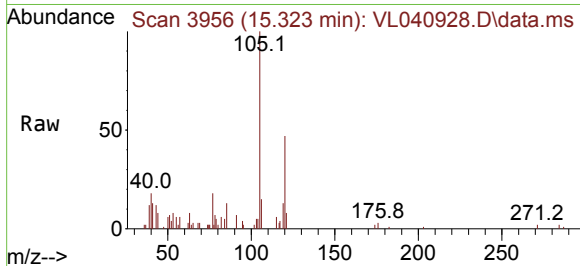
#73
1,3,5-Trimethylbenzene
Concen: 0.108 ppbv m
RT: 15.323 min Scan# 3955
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Instrument :
MSVOA_L
ClientSampleId :
10439

Tgt Ion:105 Resp: 2521
Ion Ratio Lower Upper
105 100
120 47.2 37.8 56.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.366 ppbv m
RT: 16.079 min Scan# 4191
Delta R.T. 0.000 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion:105 Resp: 95150
Ion Ratio Lower Upper
105 100
120 44.4 40.2 60.4
91 11.2 43.0 64.6#
77 21.9 18.9 28.3

