

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080423\
 Data File : VL040587.D
 Acq On : 4 Aug 2023 10:43
 Operator : SY/MD
 Sample : 03858-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/07/2023
 Supervised By :Mahesh Dadoda 08/07/2023

Quant Time: Aug 05 01:07:30 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 4

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	5.189	49	1134759	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.651	114	2764713	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.465	117	2372675	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 1958353 10.429 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.719	85	59616	0.263	ppbv #	82
3) Chlorodifluoromethane	2.671	51	67534	0.375	ppbv #	84
4) Chloromethane	2.809	50	38250m	0.537	ppbv	
9) Propene	2.697	41	74777m	1.214	ppbv	
10) Heptane	7.574	43	21546	0.158	ppbv	85
11) Trichlorofluoromethane	3.558	101	44641	0.244	ppbv	92
13) Ethanol	3.237	45	151216m	11.287	ppbv	
15) Acetone	3.465	43	626884	4.799	ppbv	99
20) Methylene Chloride	3.928	84	1183027	21.292	ppbv	98
26) Hexane	5.211	57	1234515	10.686	ppbv #	41
34) 2-Butanone	4.793	43	121347	0.888	ppbv	97
35) Carbon Tetrachloride	6.497	117	14880m	0.089	ppbv	
36) Benzene	6.362	78	32903	0.148	ppbv #	87
52) Tetrachloroethene	10.616	164	36964m	0.513	ppbv	
53) Toluene	9.220	91	67103m	0.278	ppbv	
58) Ethyl Benzene	12.089	91	26916m	0.090	ppbv	
59) m/p-Xylene	12.352	91	101965m	0.384	ppbv	
60) o-Xylene	13.063	91	69943m	0.276	ppbv	
64) n-propylbenzene	14.921	120	38522m	0.392	ppbv	
65) tert-Butylbenzene	16.108	119	168845	0.503	ppbv #	55
67) sec-Butylbenzene	16.641	105	54232m	0.110	ppbv	
72) 4-Ethyltoluene	15.195	105	243117	0.819	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.352	105	378278	1.446	ppbv	90
74) 1,2,4-Trimethylbenzene	16.104	105	1597920	5.239	ppbv #	64
76) 1,4-Dichlorobenzene	16.474	146	1239232	6.835	ppbv	97
79) Naphthalene	21.390	128	257546	0.998	ppbv	99

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

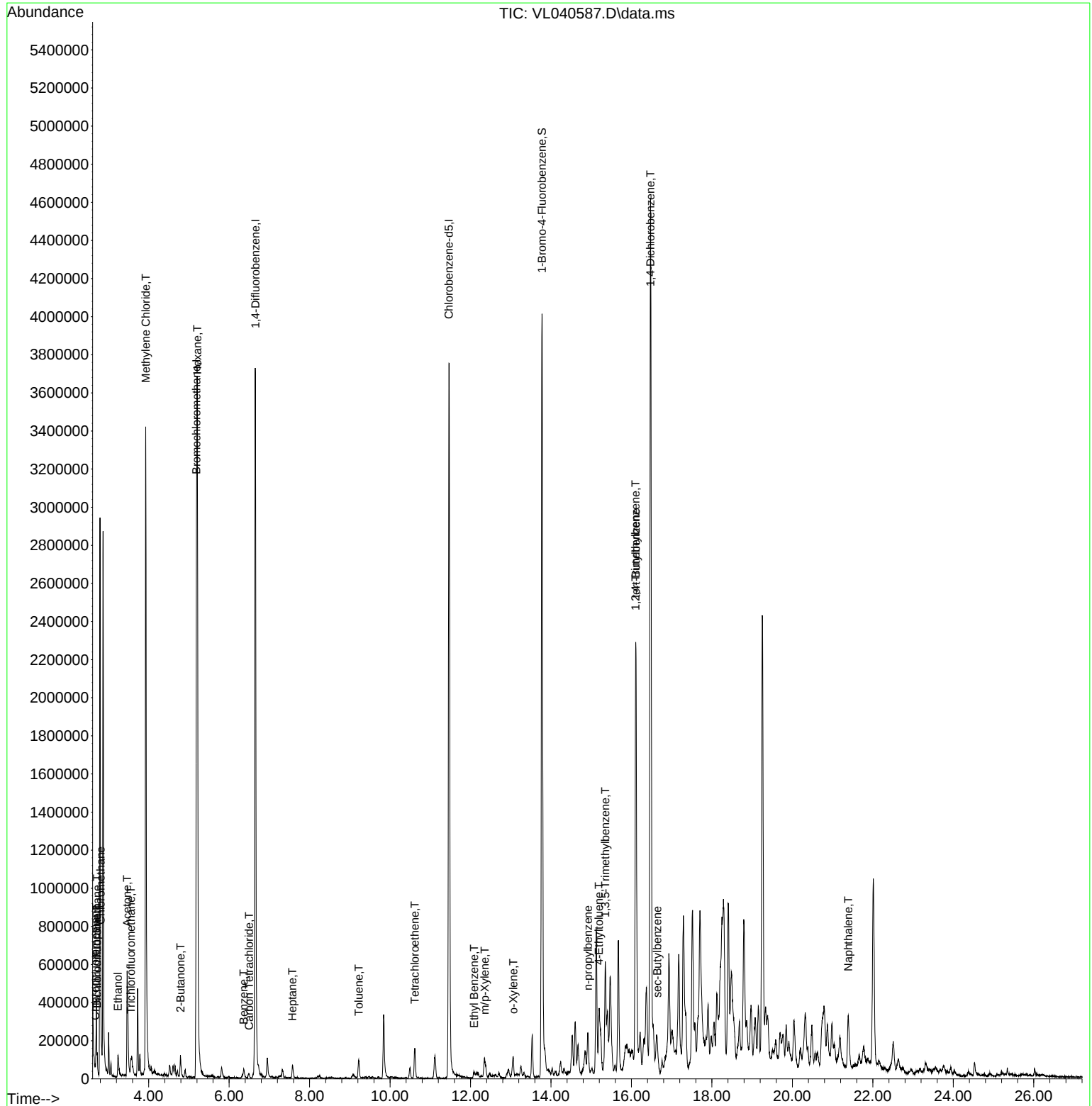
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080423\
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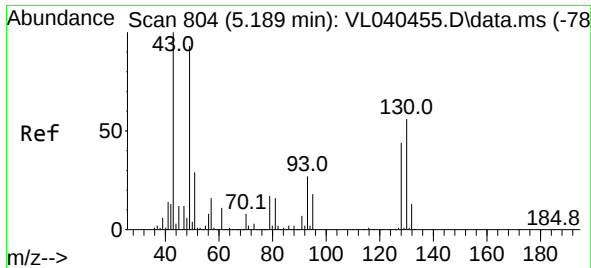
Instrument :
MSVOA_L
ClientSampleId :
IA1A

Quant Time: Aug 05 01:07:30 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

Manual Integrations
APPROVED

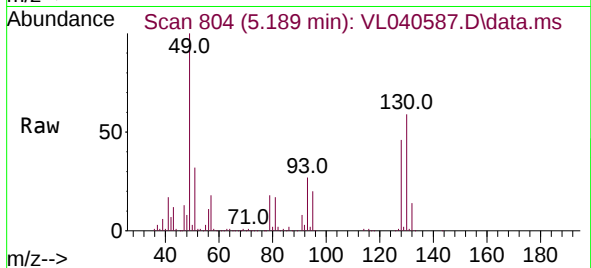
Reviewed By : Semsettin Yesilyurt 08/07/2023
Supervised By : Mahesh Dadoda 08/07/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

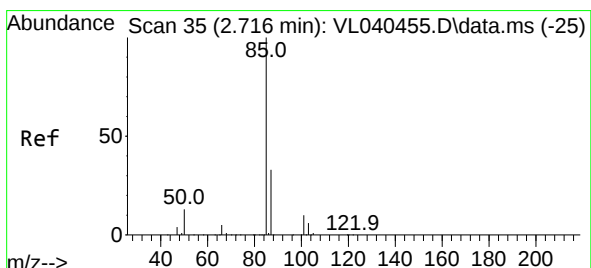
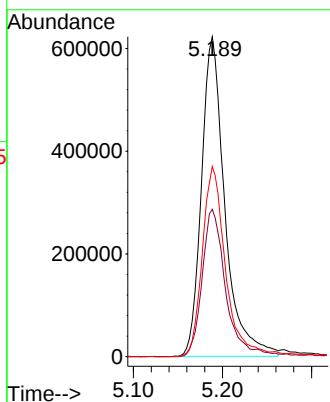
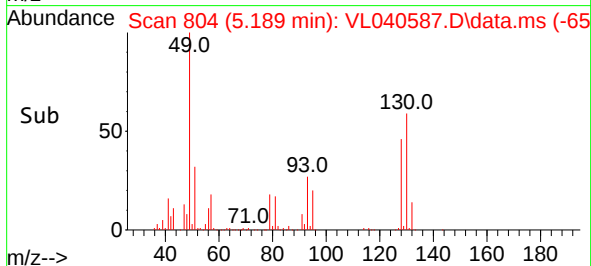
Instrument :
MSVOA_L
ClientSampleId :
IA1A



Tgt Ion: 49 Resp: 113475
Ion Ratio Lower Upper
49 100
128 47.7 25.1 75.4
130 61.4 31.6 94.7

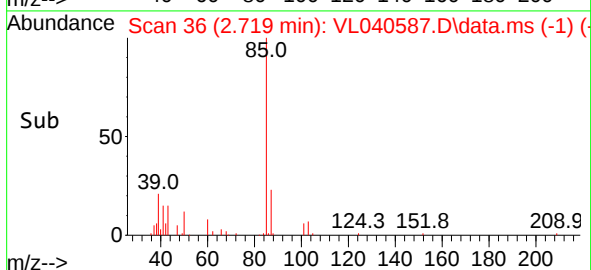
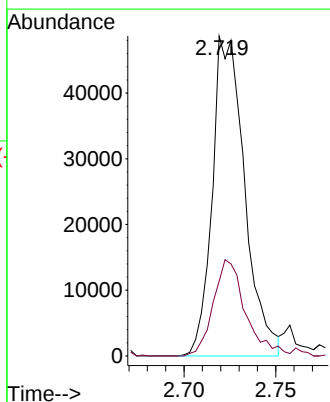
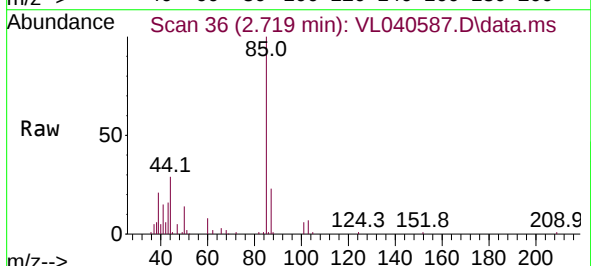
Manual Integrations
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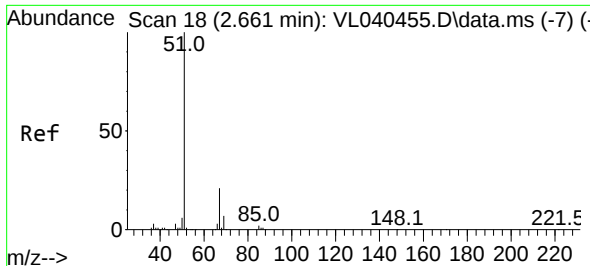
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023



#2
Dichlorodifluoromethane
Concen: 0.263 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.019 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

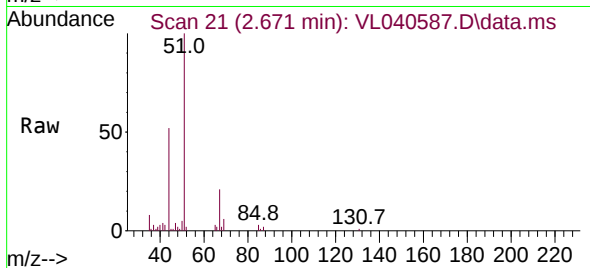
Tgt Ion: 85 Resp: 59616
Ion Ratio Lower Upper
85 100
87 23.4 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.375 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

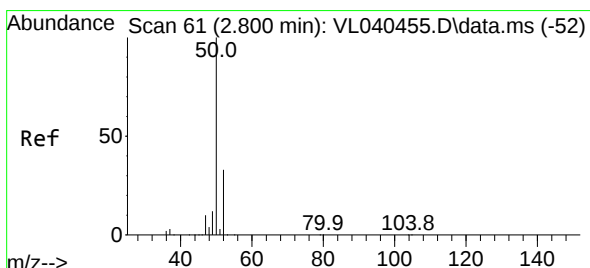
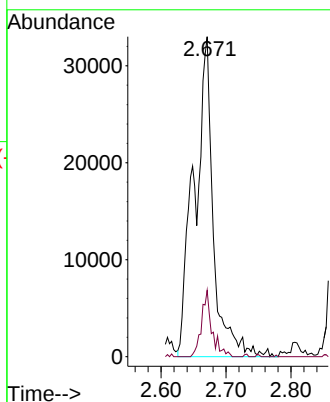
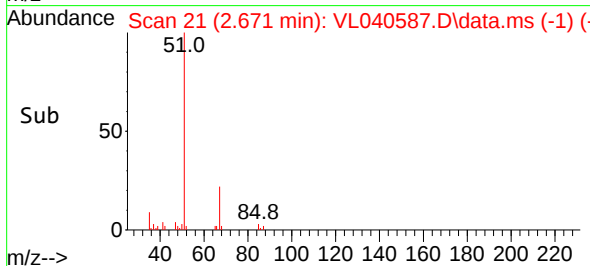
Instrument :
MSVOA_L
ClientSampleId :
IA1A



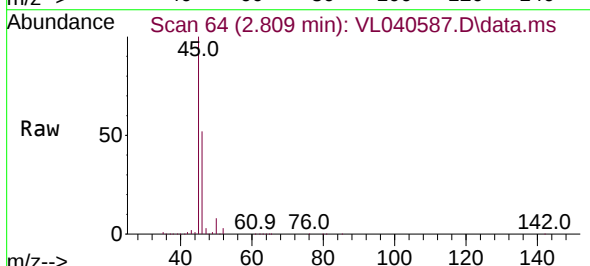
Tgt Ion: 51 Resp: 67534
Ion Ratio Lower Upper
51 100
67 11.3 14.6 21.8

Manual Integrations
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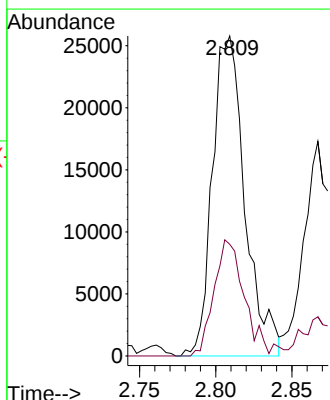
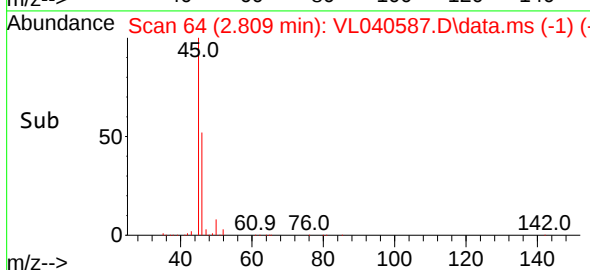
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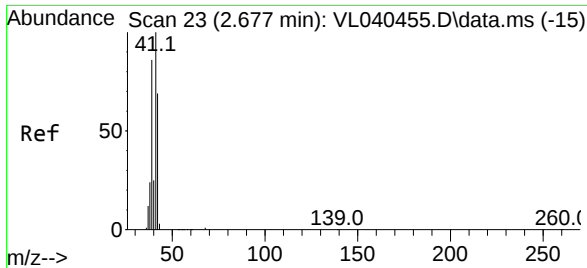


#4
Chloromethane
Concen: 0.537 ppbv m
RT: 2.809 min Scan# 64
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



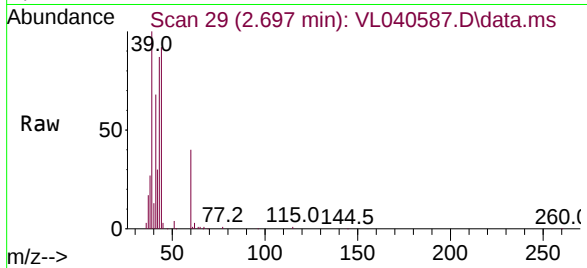
Tgt Ion: 50 Resp: 38250
Ion Ratio Lower Upper
50 100
52 34.9 24.4 36.6





#9
 Propene
 Concen: 1.214 ppbv m
 RT: 2.697 min Scan# 29
 Delta R.T. -0.007 min
 Lab File: VL040587.D
 Acq: 4 Aug 2023 10:43

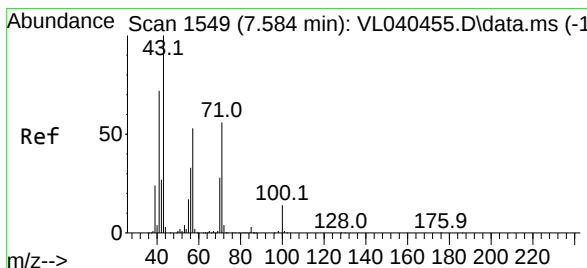
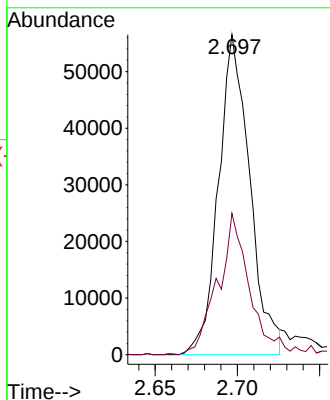
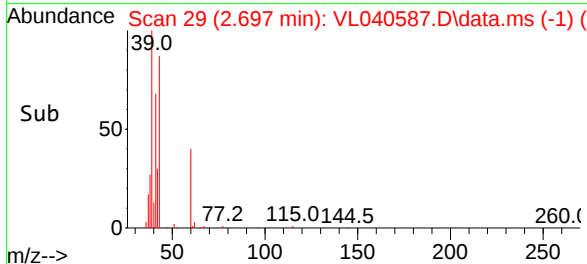
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A



Tgt Ion: 41 Resp: 7477
 Ion Ratio Lower Upper
 41 100
 42 679.5 55.0 82.6

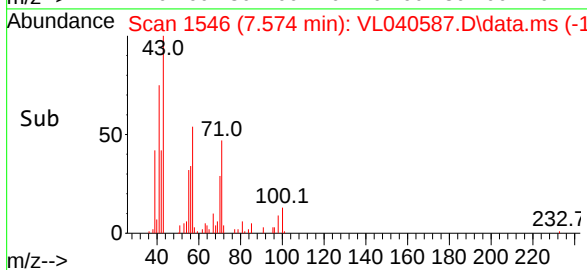
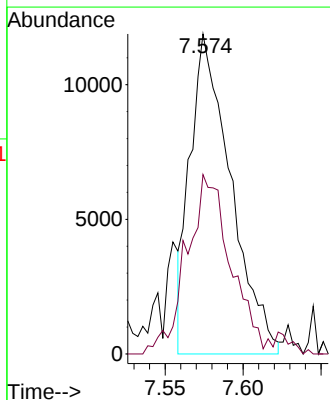
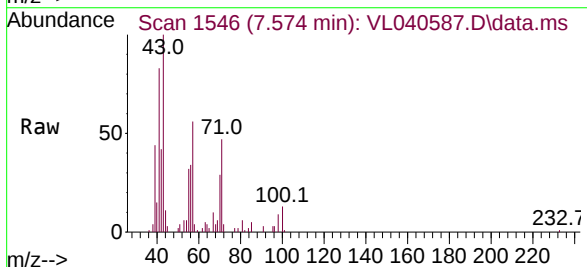
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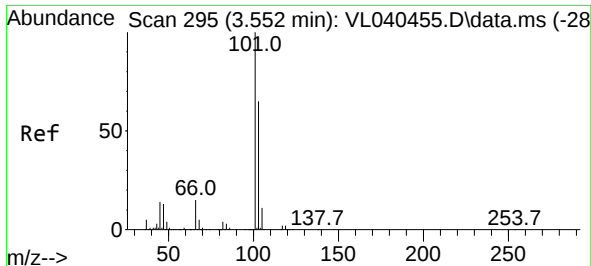
Reviewed By :Semsettin Yesilyurt 08/07/2023
 Supervised By :Mahesh Dadoda 08/07/2023



#10
 Heptane
 Concen: 0.158 ppbv
 RT: 7.574 min Scan# 1546
 Delta R.T. -0.016 min
 Lab File: VL040587.D
 Acq: 4 Aug 2023 10:43

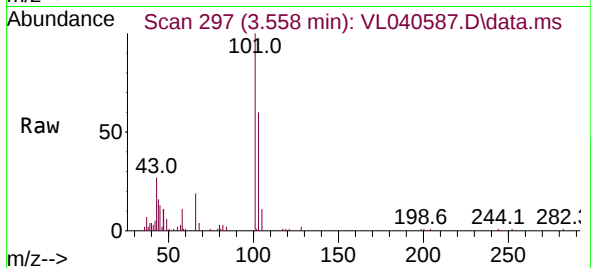
Tgt Ion: 43 Resp: 21546
 Ion Ratio Lower Upper
 43 100
 57 63.4 42.5 63.7





#11
Trichlorofluoromethane
Concen: 0.244 ppbv
RT: 3.558 min Scan# 295
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

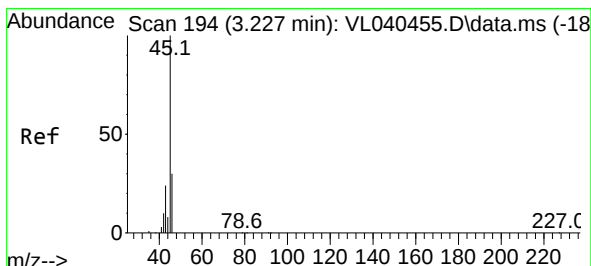
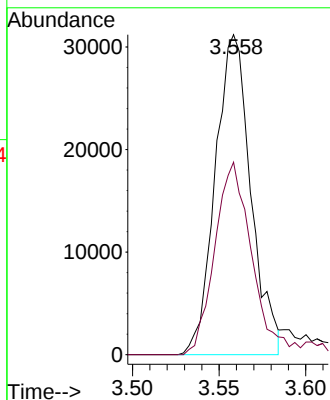
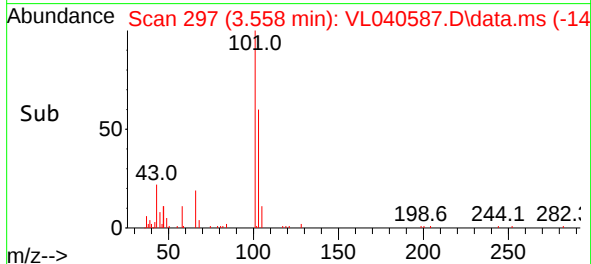
Instrument :
MSVOA_L
ClientSampleId :
IA1A



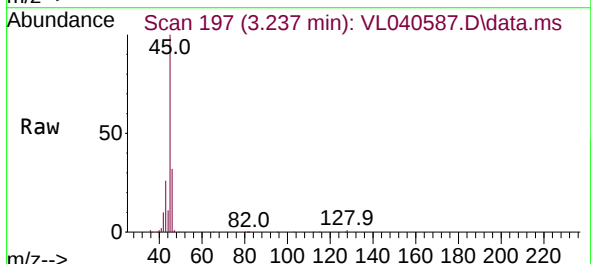
Tgt Ion:101 Resp: 4464
Ion Ratio Lower Upper
101 100
103 60.1 53.4 80.0

Manual Integrations
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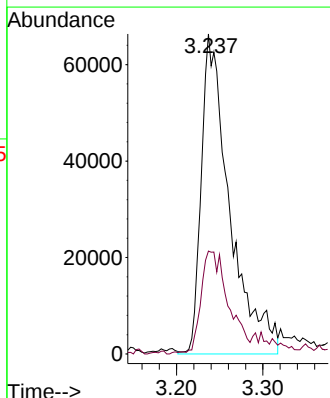
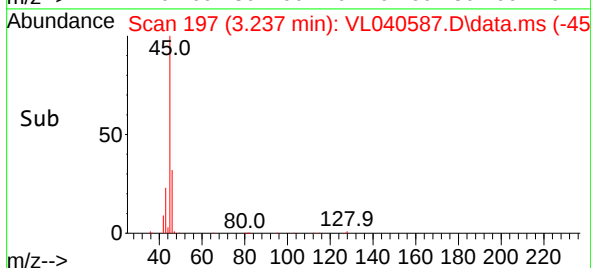
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023

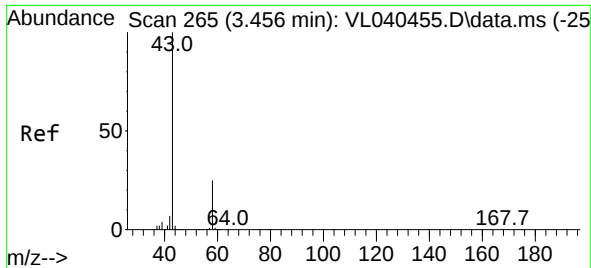


#13
Ethanol
Concen: 11.287 ppbv m
RT: 3.237 min Scan# 197
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



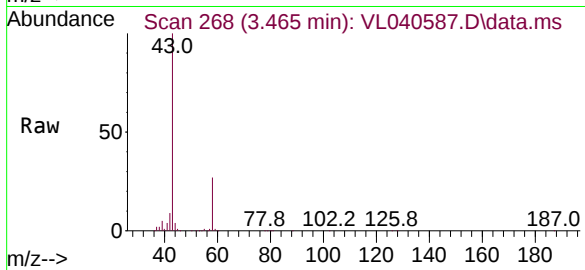
Tgt Ion: 45 Resp: 151216
Ion Ratio Lower Upper
45 100
46 36.3 15.3 61.1





#15
Acetone
Concen: 4.799 ppbv
RT: 3.465 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

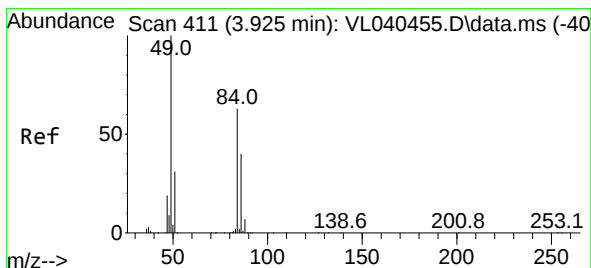
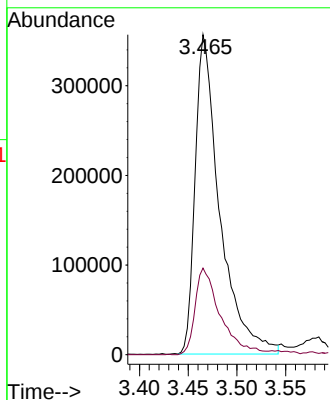
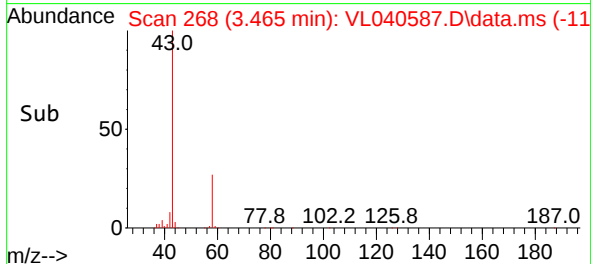
Instrument :
MSVOA_L
ClientSampleId :
IA1A



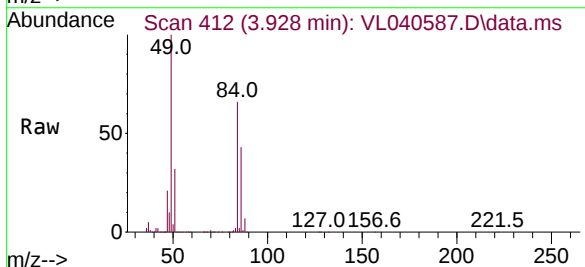
Tgt Ion: 43 Resp: 626884
Ion Ratio Lower Upper
43 100
58 28.9 22.9 34.3

Manual Integrations
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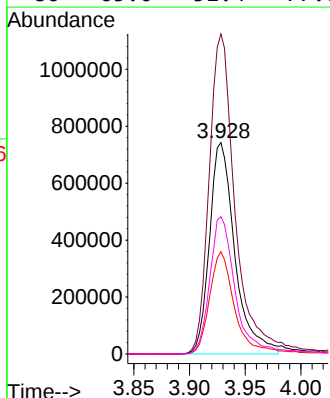
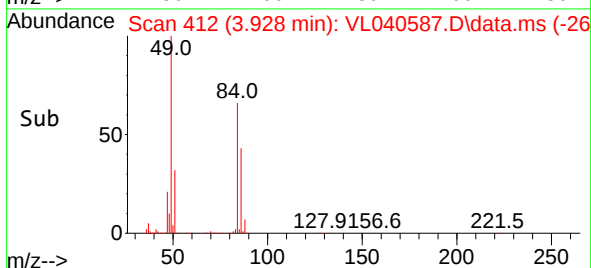
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023

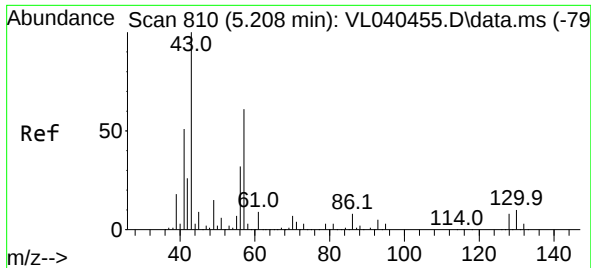


#20
Methylene Chloride
Concen: 21.292 ppbv
RT: 3.928 min Scan# 412
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



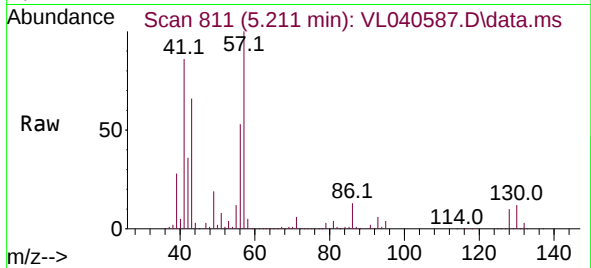
Tgt Ion: 84 Resp: 1183027
Ion Ratio Lower Upper
84 100
49 151.3 123.4 185.2
51 48.4 38.3 57.5
86 65.0 51.4 77.0





#26
Hexane
Concen: 10.686 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

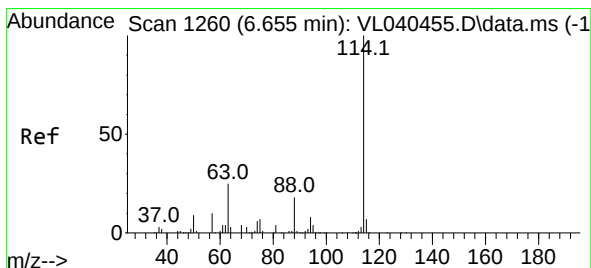
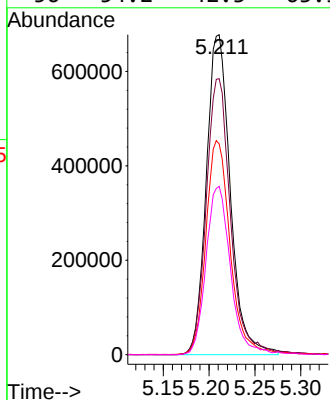
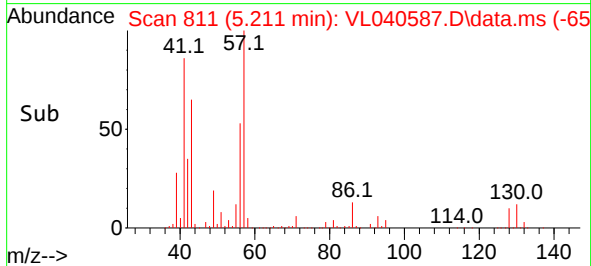
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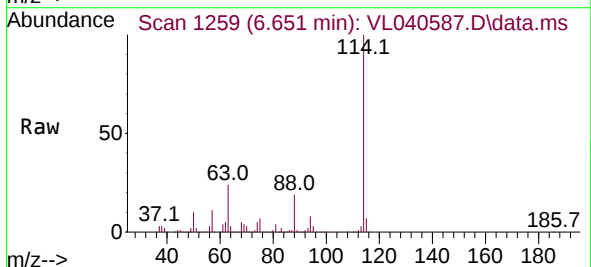
Tgt Ion: 57 Resp: 123451
Ion Ratio Lower Upper
57 100
41 88.2 69.5 104.3
43 68.0 177.1 265.7
56 54.2 42.3 63.5

Manual Integrations
APPROVED

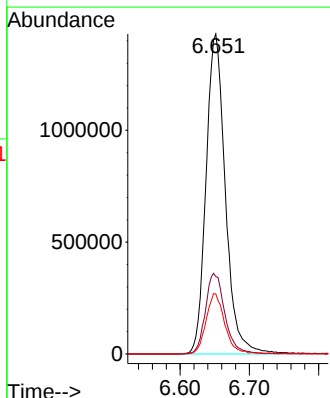
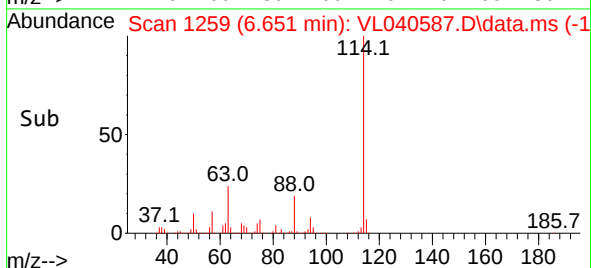
Reviewed By :Semsettin Yesilyurt 08/07/2023
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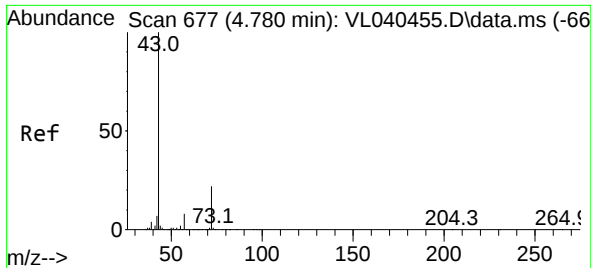


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.651 min Scan# 1259
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



Tgt Ion:114 Resp: 2764713
Ion Ratio Lower Upper
114 100
63 25.7 19.6 29.4
88 18.5 14.2 21.2





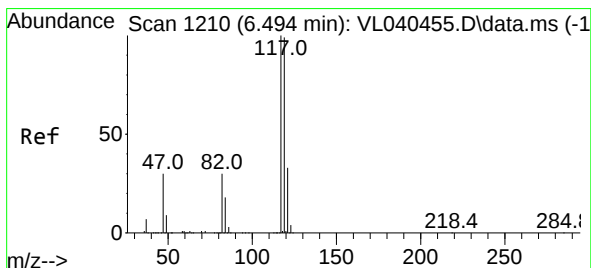
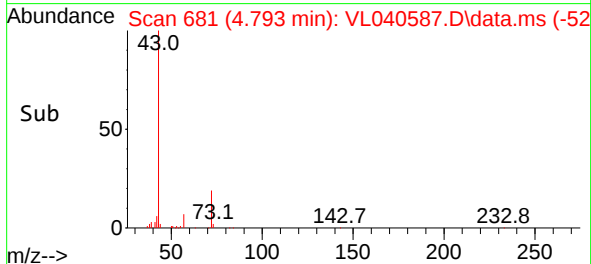
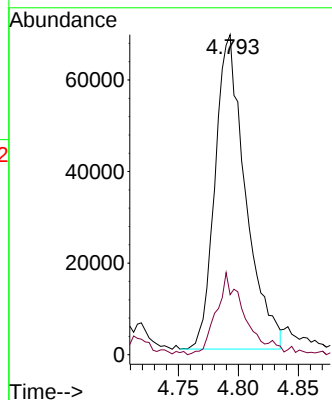
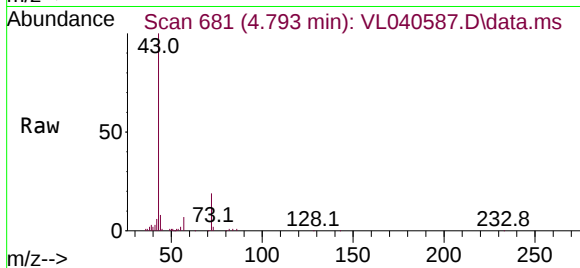
#34
2-Butanone
Concen: 0.888 ppbv
RT: 4.793 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tgt Ion: 43 Resp: 12134
Ion Ratio Lower Upper
43 100
72 25.6 19.1 28.7

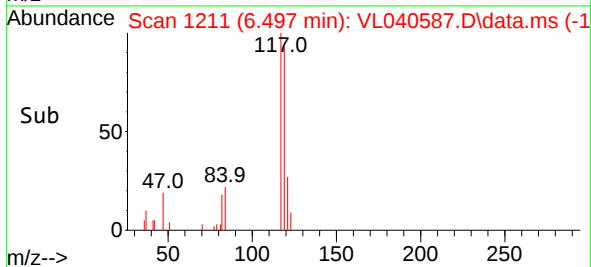
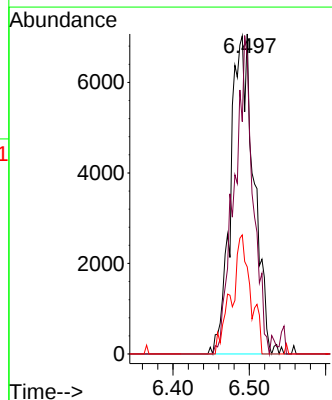
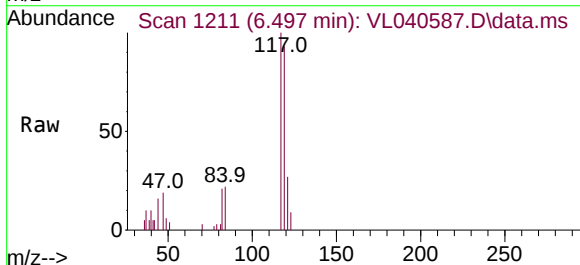
Manual Integrations
APPROVED

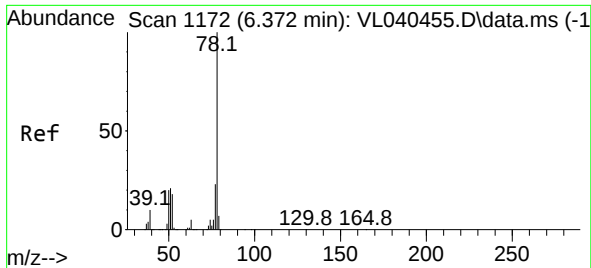
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023



#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. -0.007 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

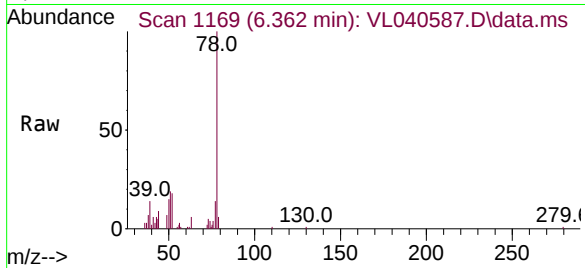
Tgt Ion:117 Resp: 14880
Ion Ratio Lower Upper
117 100
119 92.8 77.8 116.6
121 27.2 24.8 37.2





#36
Benzene
Concen: 0.148 ppbv
RT: 6.362 min Scan# 1172
Delta R.T. -0.019 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

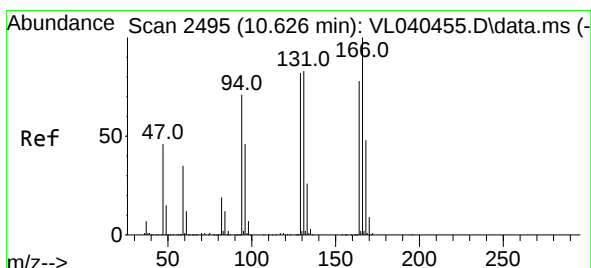
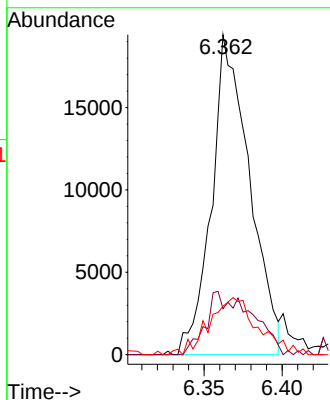
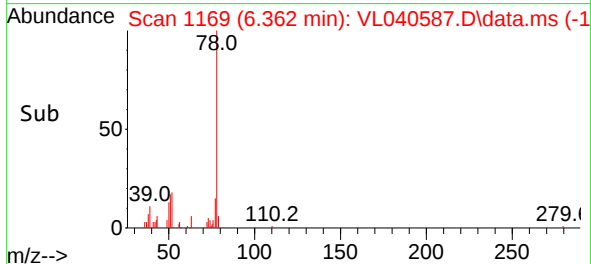
Instrument :
MSVOA_L
ClientSampleId :
IA1A



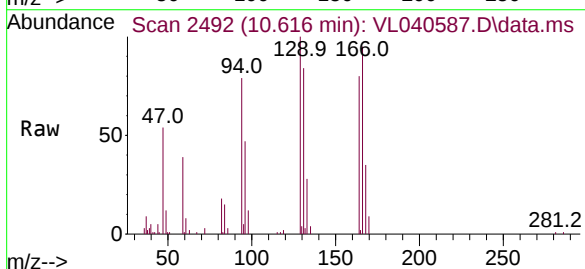
Tgt Ion: 78 Resp: 3290
Ion Ratio Lower Upper
78 100
77 14.4 17.4 26.0
50 13.4 14.4 21.6

Manual Integrations
APPROVED

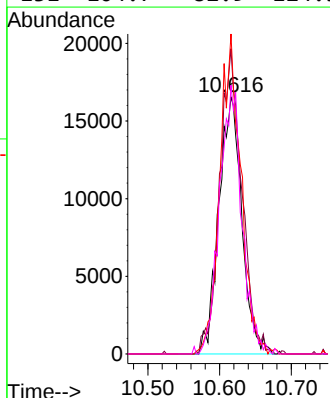
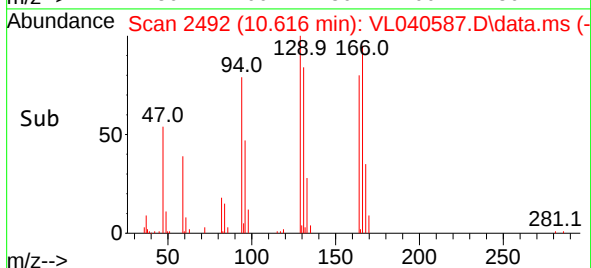
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023

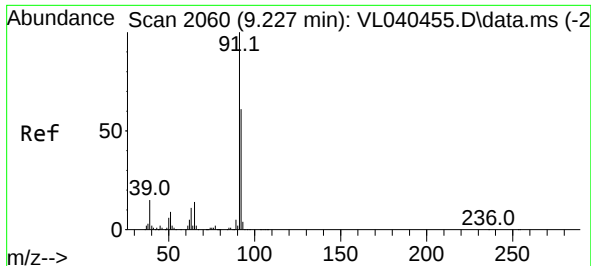


#52
Tetrachloroethene
Concen: 0.513 ppbv m
RT: 10.616 min Scan# 2492
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



Tgt Ion:164 Resp: 36964
Ion Ratio Lower Upper
164 100
166 118.9 103.9 155.9
129 124.6 84.6 126.8
131 104.7 82.9 124.3





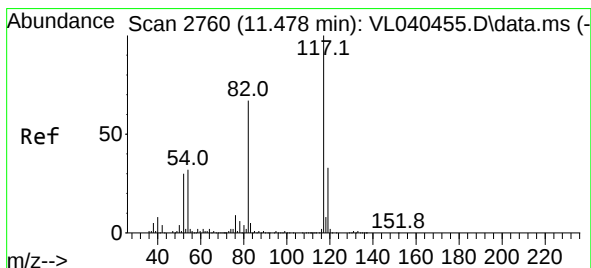
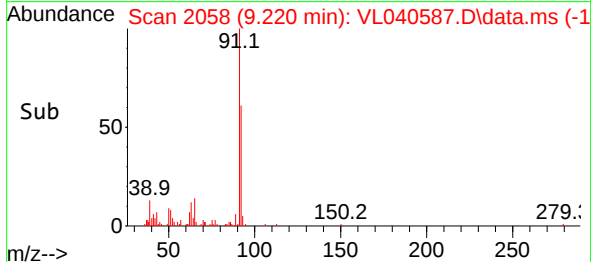
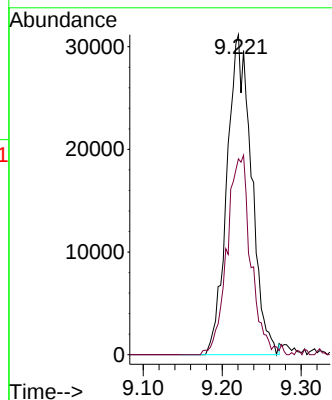
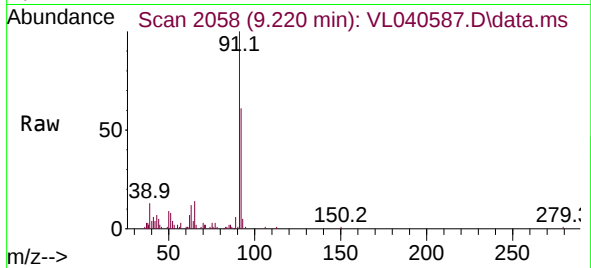
#53
Toluene
Concen: 0.278 ppbv m
RT: 9.220 min Scan# 2060
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tgt Ion: 91 Resp: 6710
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7

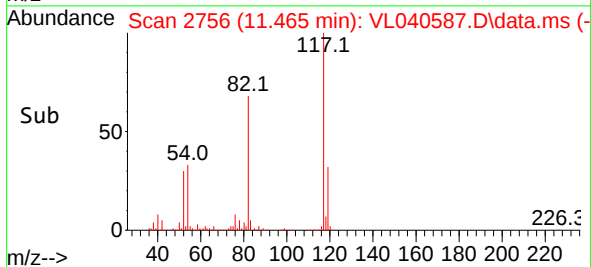
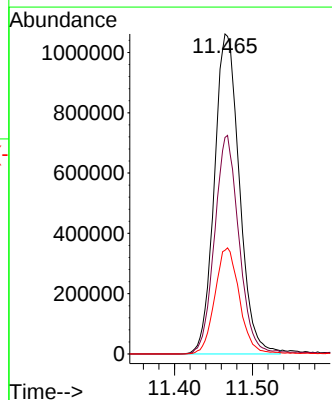
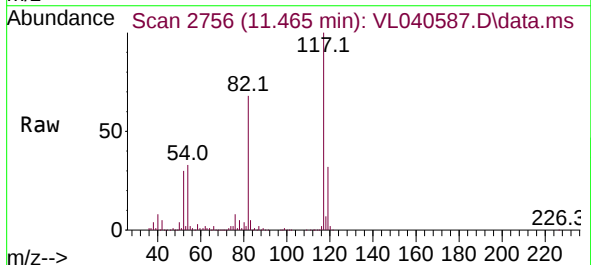
Manual Integrations
APPROVED

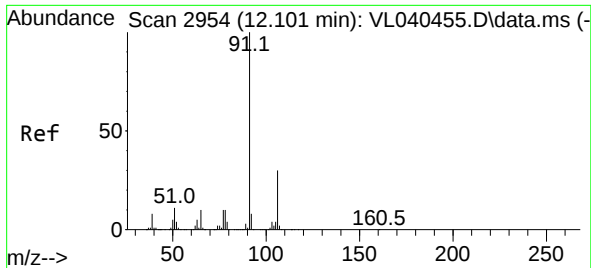
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

Tgt Ion:117 Resp: 2372675
Ion Ratio Lower Upper
117 100
82 67.1 50.2 75.4
119 32.8 26.9 40.3





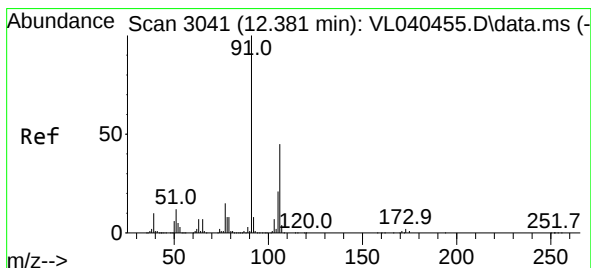
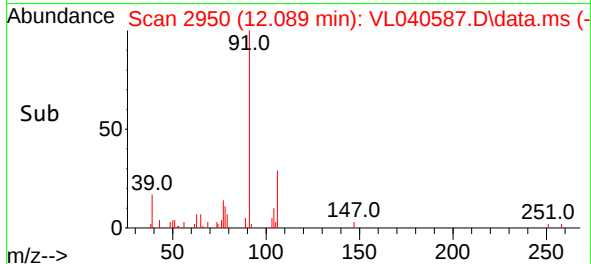
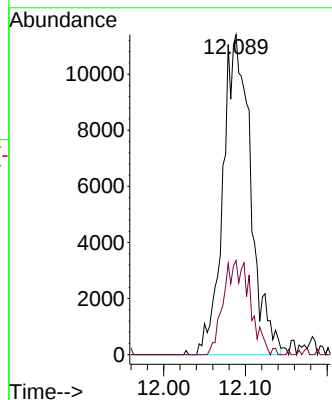
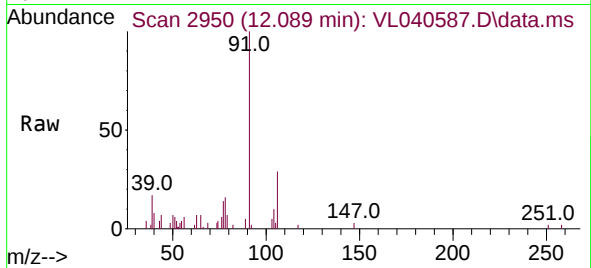
#58
Ethyl Benzene
Concen: 0.090 ppbv m
RT: 12.089 min Scan# 2950
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tgt Ion: 91 Resp: 26910
Ion Ratio Lower Upper
91 100
106 29.4 25.4 38.0

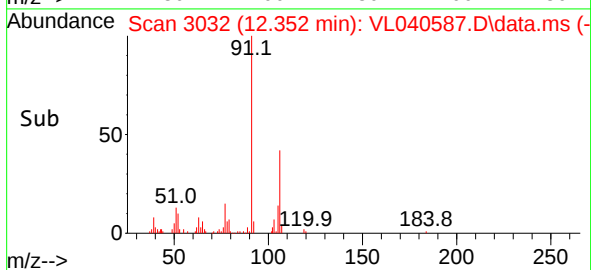
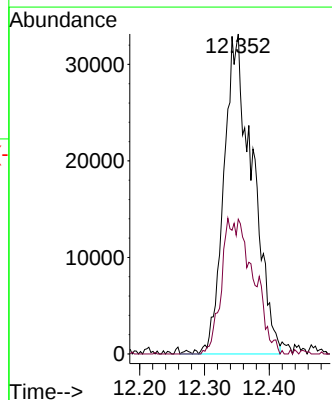
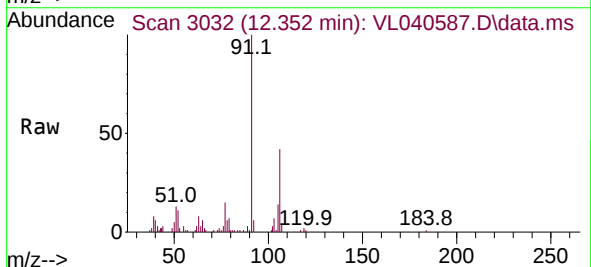
Manual Integrations
APPROVED

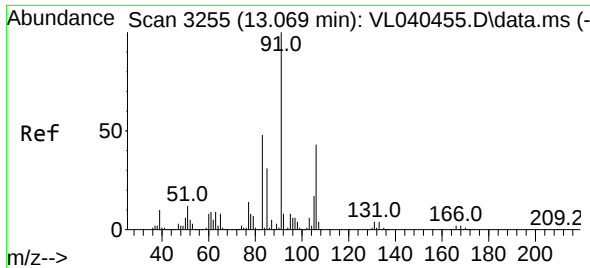
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023



#59
m/p-Xylene
Concen: 0.384 ppbv m
RT: 12.352 min Scan# 3032
Delta R.T. -0.032 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

Tgt Ion: 91 Resp: 101965
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#





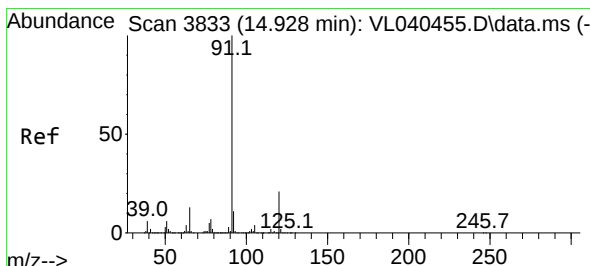
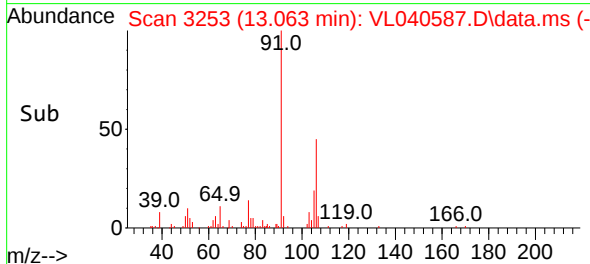
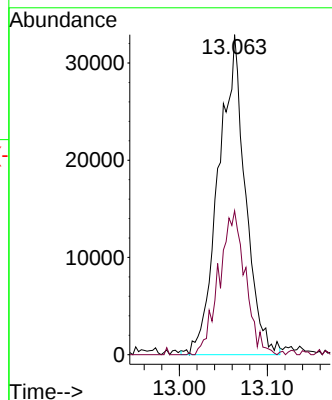
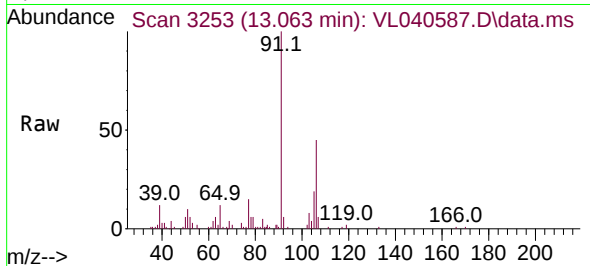
#60
o-Xylene
Concen: 0.276 ppbv m
RT: 13.063 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tgt Ion: 91 Resp: 6994
Ion Ratio Lower Upper
91 100
106 0.0 22.7 68.0

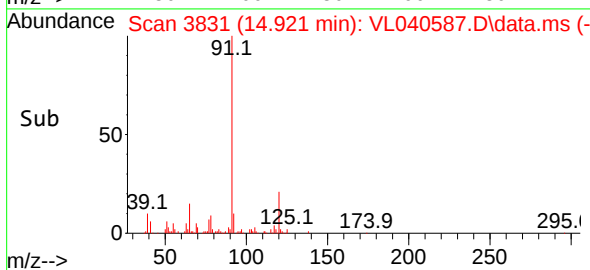
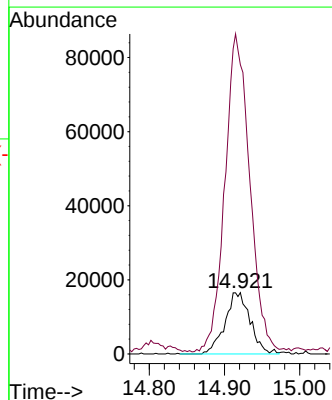
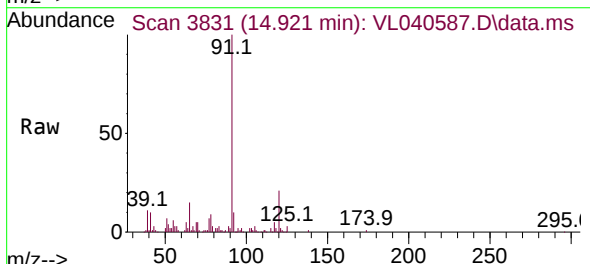
Manual Integrations
APPROVED

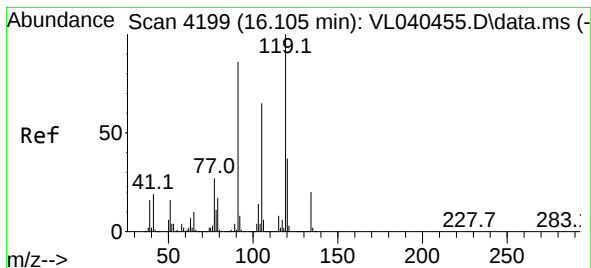
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023



#64
n-propylbenzene
Concen: 0.392 ppbv m
RT: 14.921 min Scan# 3831
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

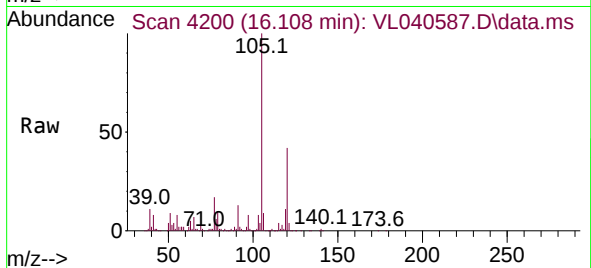
Tgt Ion:120 Resp: 38522
Ion Ratio Lower Upper
120 100
91 510.2 374.3 561.5





#65
tert-Butylbenzene
Concen: 0.503 ppbv
RT: 16.108 min Scan# 4199
Delta R.T. 0.006 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

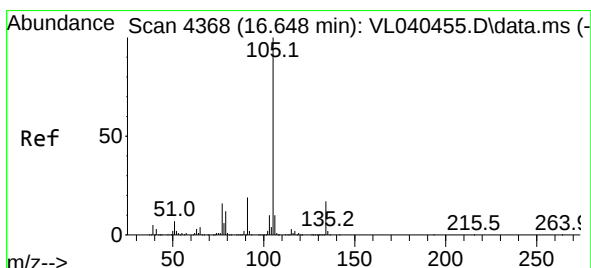
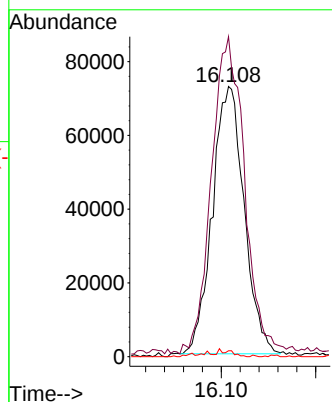
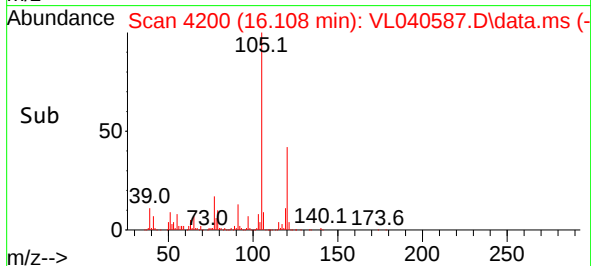
Instrument :
MSVOA_L
ClientSampleId :
IA1A



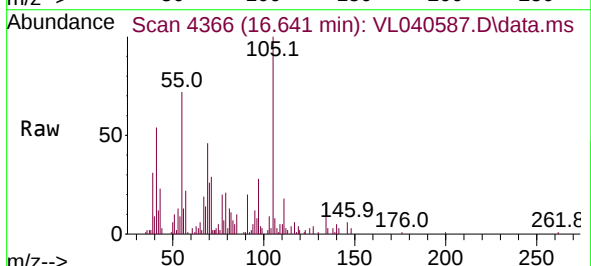
Tgt Ion:119 Resp: 16884
Ion Ratio Lower Upper
119 100
91 124.1 66.1 99.1
134 2.0 15.7 23.5

Manual Integrations
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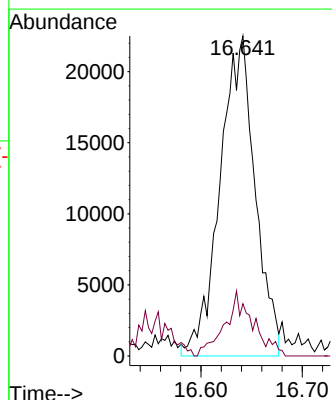
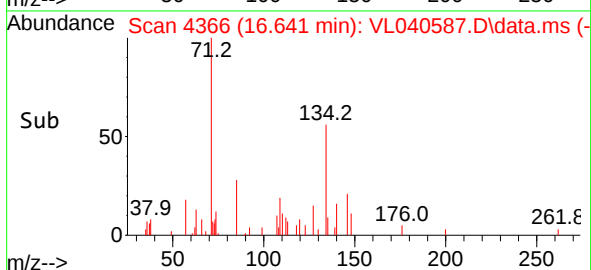
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023

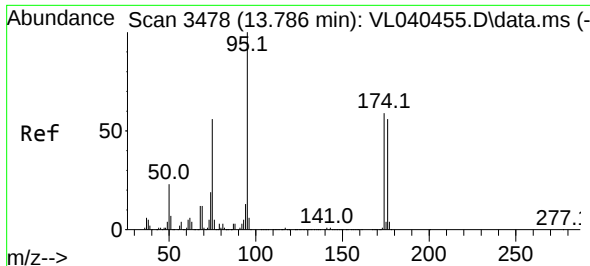


#67
sec-Butylbenzene
Concen: 0.110 ppbv m
RT: 16.641 min Scan# 4366
Delta R.T. -0.007 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



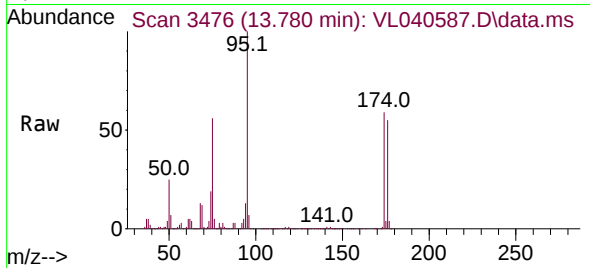
Tgt Ion:105 Resp: 54232
Ion Ratio Lower Upper
105 100
134 16.3 14.4 21.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.429 ppbv
RT: 13.780 min Scan# 3478
Delta R.T. -0.003 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

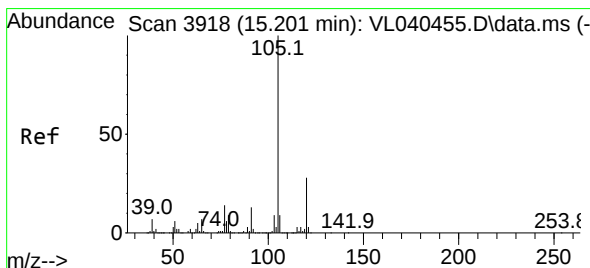
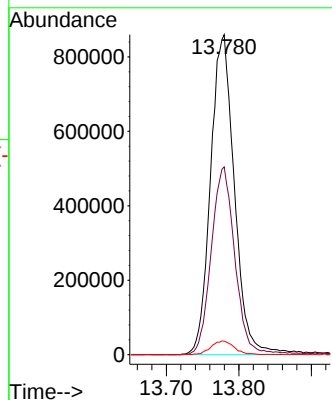
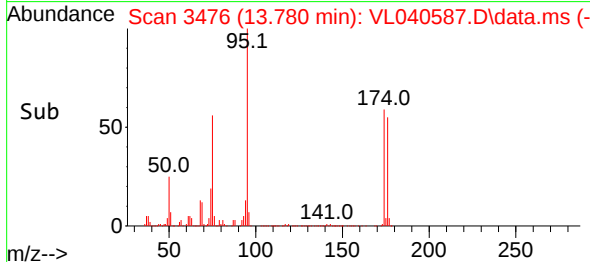
Instrument :
MSVOA_L
ClientSampleId :
IA1A



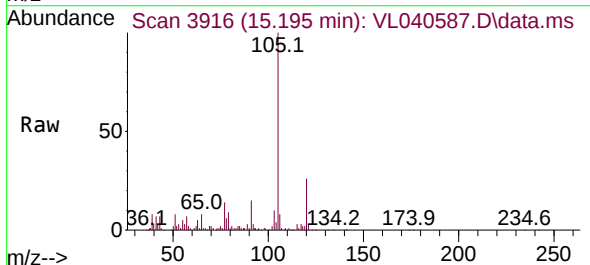
Tgt Ion: 95 Resp: 195835
Ion Ratio Lower Upper
95 100
174 58.5 50.6 75.8
175 4.3 3.7 5.5

Manual Integrations
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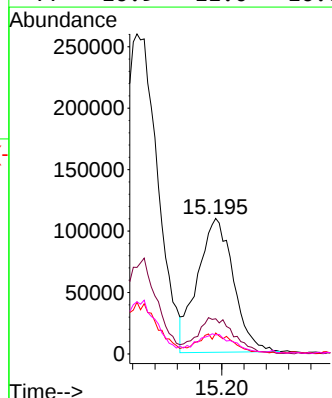
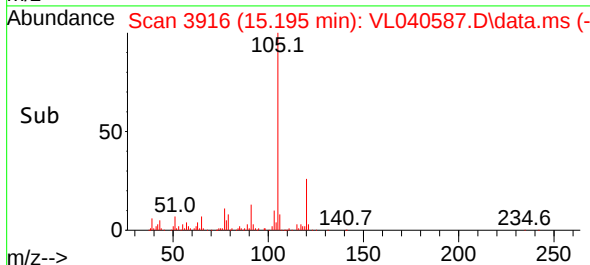
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023

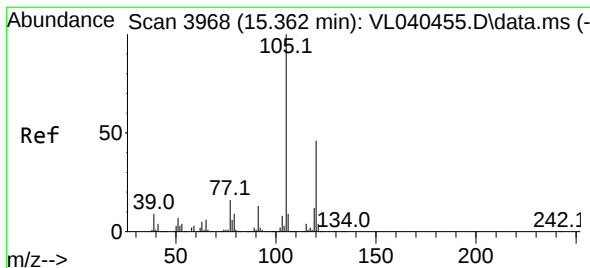


#72
4-Ethyltoluene
Concen: 0.819 ppbv
RT: 15.195 min Scan# 3916
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



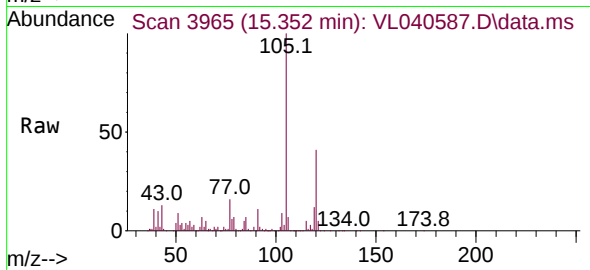
Tgt Ion:105 Resp: 243117
Ion Ratio Lower Upper
105 100
120 28.9 24.6 37.0
91 15.5 10.7 16.1
77 16.9 11.0 16.6#





#73
1,3,5-Trimethylbenzene
Concen: 1.446 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. -0.010 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

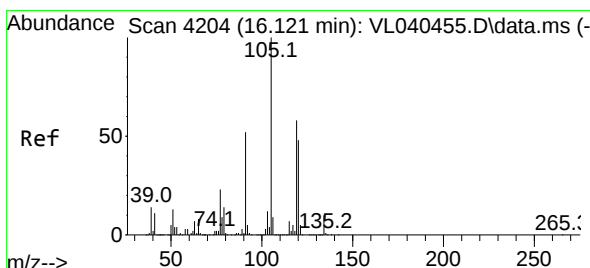
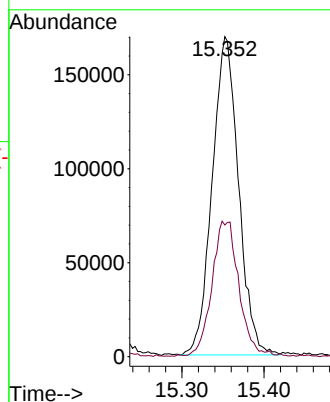
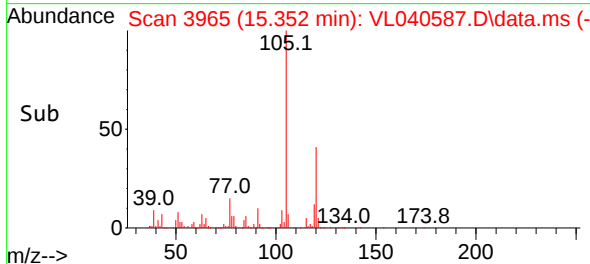
Instrument :
MSVOA_L
ClientSampleId :
IA1A



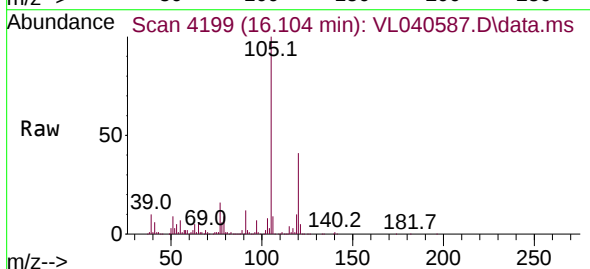
Tgt Ion:105 Resp: 378278
Ion Ratio Lower Upper
105 100
120 40.8 38.2 57.2

Manual Integrations
APPROVED

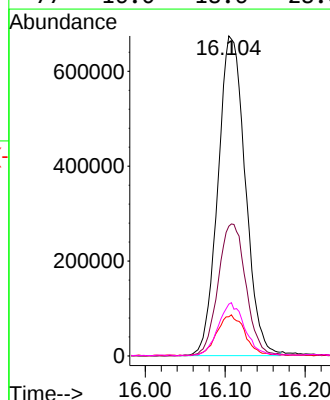
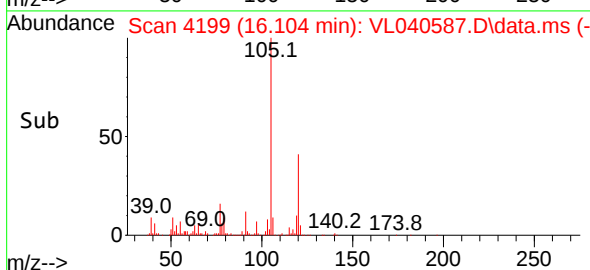
Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023

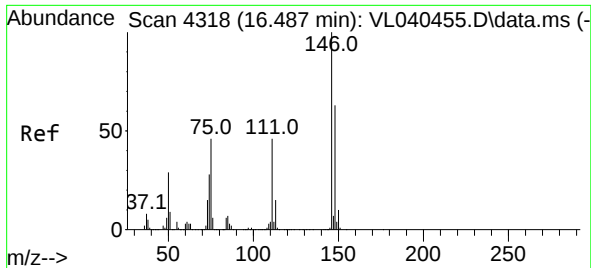


#74
1,2,4-Trimethylbenzene
Concen: 5.239 ppbv
RT: 16.104 min Scan# 4199
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



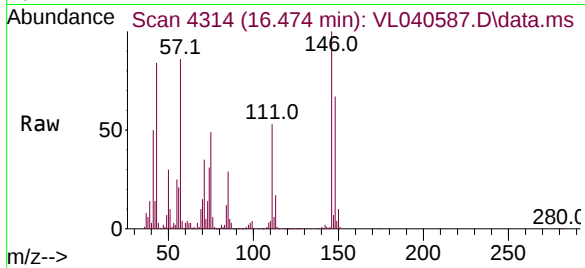
Tgt Ion:105 Resp: 1597920
Ion Ratio Lower Upper
105 100
120 40.5 40.3 60.5
91 12.0 46.8 70.2#
77 16.0 18.6 28.0#





#76
1,4-Dichlorobenzene
Concen: 6.835 ppbv
RT: 16.474 min Scan# 4318
Delta R.T. -0.013 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43

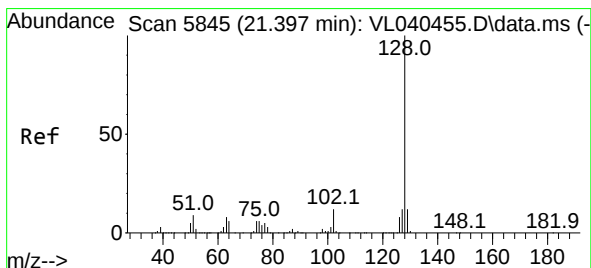
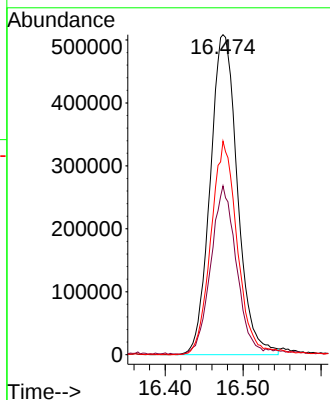
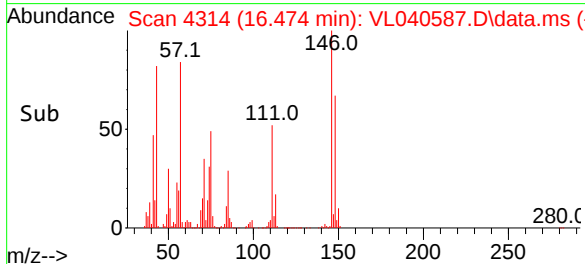
Instrument :
MSVOA_L
ClientSampleId :
IA1A



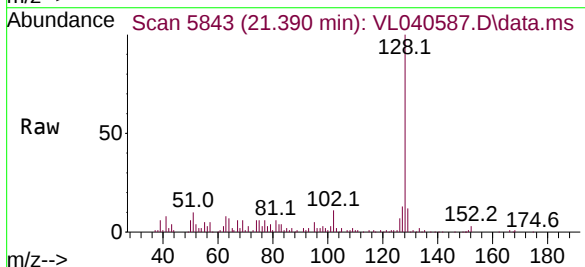
Tgt Ion:146 Resp: 123923
Ion Ratio Lower Upper
146 100
111 50.5 22.8 68.3
148 65.4 32.6 97.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/07/2023
Supervised By :Mahesh Dadoda 08/07/2023



#79
Naphthalene
Concen: 0.998 ppbv
RT: 21.390 min Scan# 5843
Delta R.T. -0.003 min
Lab File: VL040587.D
Acq: 4 Aug 2023 10:43



Tgt Ion:128 Resp: 257546
Ion Ratio Lower Upper
128 100
127 12.4 10.7 16.1
129 11.5 9.2 13.8

