

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040552.D
 Acq On : 26 Jul 2023 22:39
 Operator : SY/MD
 Sample : 03730-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-23-20230721

Manual Integrations
 APPROVED

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

Quant Time: Jul 27 01:52:53 2023

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1085161	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2822614	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.458	117	2747685	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2845836	13.087	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	130.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	27976	0.129	ppbv #	82
9) Propene	2.681	41	144948	2.462	ppbv #	81
10) Heptane	7.568	43	770752	5.928	ppbv	99
11) Trichlorofluoromethane	3.546	101	14928	0.085	ppbv	99
13) Ethanol	3.218	45	228370	17.825	ppbv	95
15) Acetone	3.443	43	5405237	43.273	ppbv	97
17) tert-Butyl alcohol	3.861	59	304565	2.357	ppbv	99
20) Methylene Chloride	3.915	84	39579	0.745	ppbv	95
26) Hexane	5.195	57	579664	5.247	ppbv #	41
27) Carbon Disulfide	4.108	76	190219	1.464	ppbv	98
29) Chloroform	5.259	83	30936	0.169	ppbv	96
30) Cyclohexane	6.584	84	232525	2.529	ppbv	93
34) 2-Butanone	4.767	43	1545186	11.079	ppbv	99
36) Benzene	6.356	78	148740	0.655	ppbv	98
50) 4-Methyl-2-Pentanone	8.169	43	1556713	7.682	ppbv	98
52) Tetrachloroethene	10.603	164	4049m	0.055	ppbv	
53) Toluene	9.208	91	883029	3.579	ppbv	98
58) Ethyl Benzene	12.079	91	522428	1.515	ppbv	98
59) m/p-Xylene	12.333	91	695091	2.259	ppbv	97
60) o-Xylene	13.050	91	409485	1.397	ppbv	98
62) Isopropylbenzene	14.024	105	146106	0.332	ppbv	95
67) sec-Butylbenzene	16.629	105	61928m	0.108	ppbv	
73) 1,3,5-Trimethylbenzene	15.349	105	99981	0.330	ppbv	89
74) 1,2,4-Trimethylbenzene	16.098	105	136600	0.387	ppbv #	72
75) 1,3-Dichlorobenzene	16.323	146	78123	0.365	ppbv #	38

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

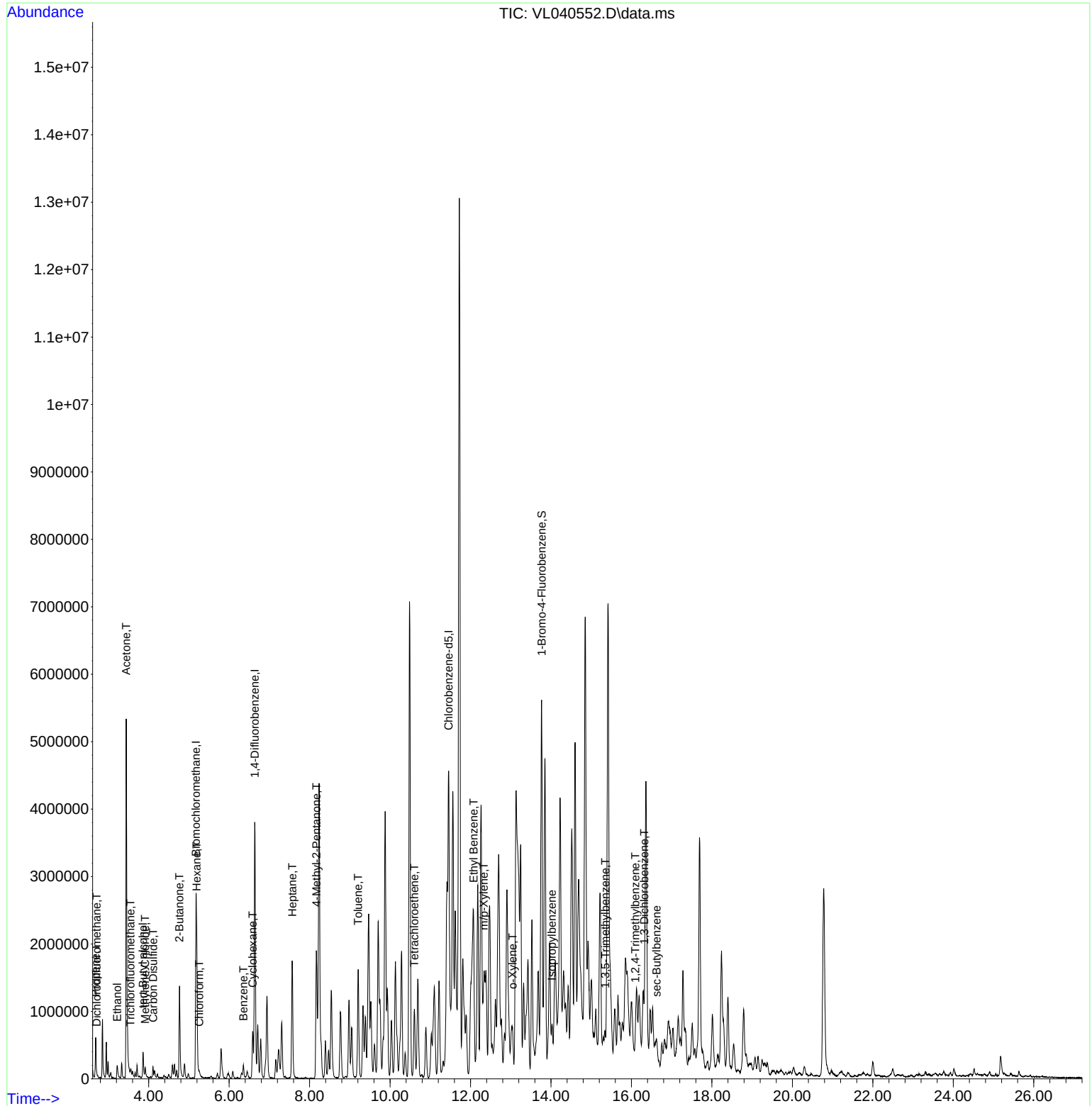
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
Data File : VL040552.D
Acq On : 26 Jul 2023 22:39
Operator : SY/MD
Sample : 03730-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

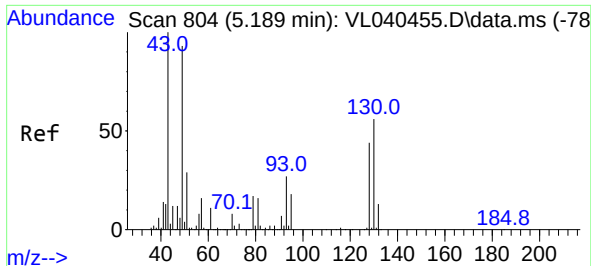
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721

Manual Integrations
APPROVED

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

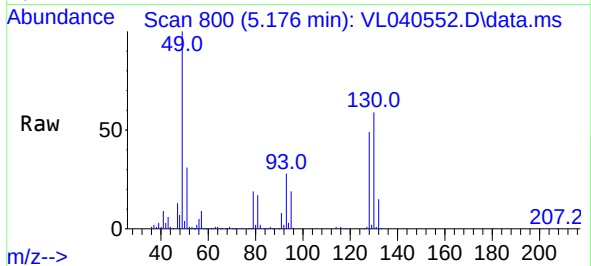
Quant Time: Jul 27 01:52:53 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Jul 10 16:32:00 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

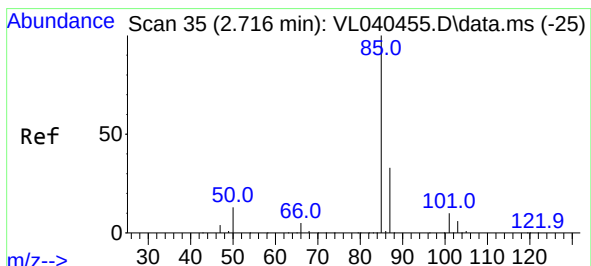
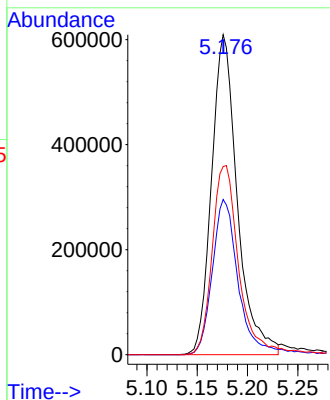
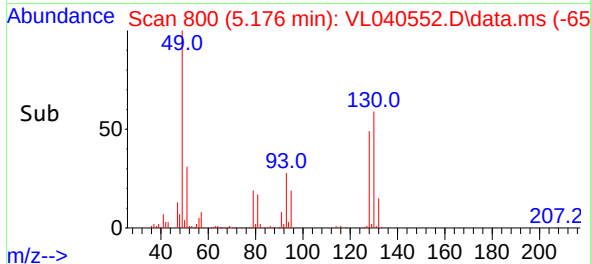
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



Tgt Ion: 49 Resp: 108516
Ion Ratio Lower Upper
49 100
128 50.3 25.1 75.4
130 62.5 31.6 94.7

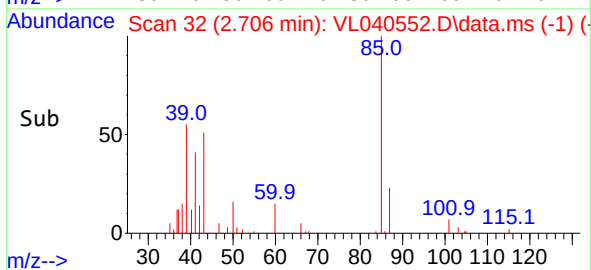
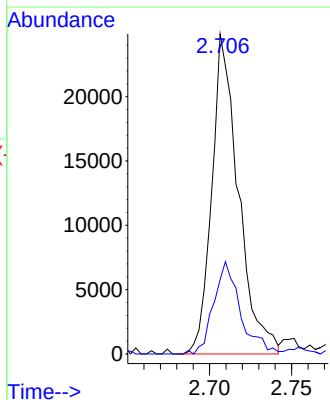
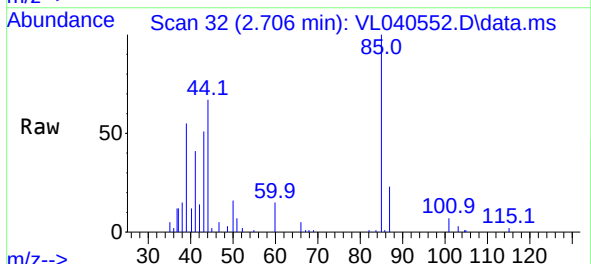
Manual Integrations
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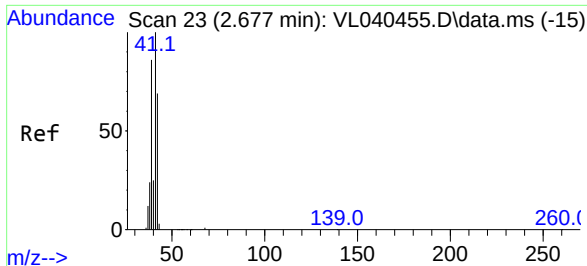
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#2
Dichlorodifluoromethane
Concen: 0.129 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.032 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

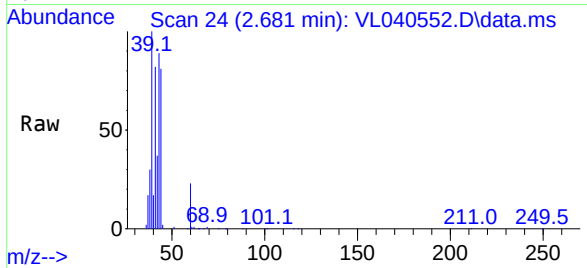
Tgt Ion: 85 Resp: 27976
Ion Ratio Lower Upper
85 100
87 23.3 26.8 40.2#





#9
 Propene
 Concen: 2.462 ppbv
 RT: 2.681 min Scan# 24
 Delta R.T. -0.023 min
 Lab File: VL040552.D
 Acq: 26 Jul 2023 22:39

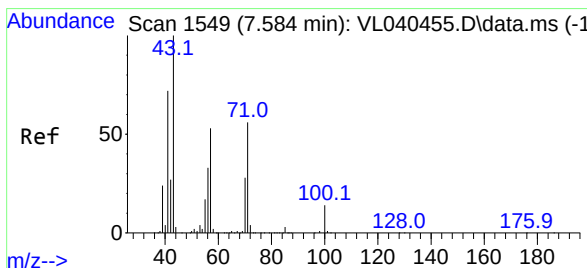
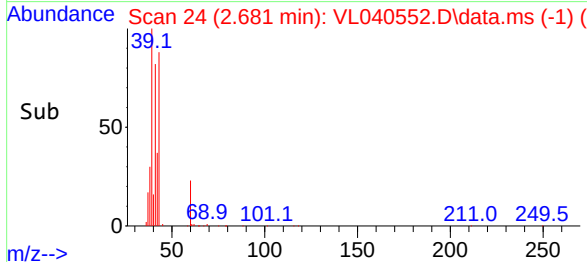
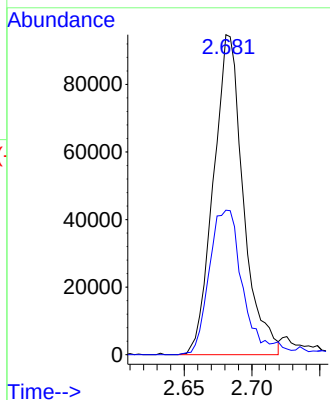
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Tgt Ion: 41 Resp: 144948
 Ion Ratio Lower Upper
 41 100
 42 53.0 55.0 82.6

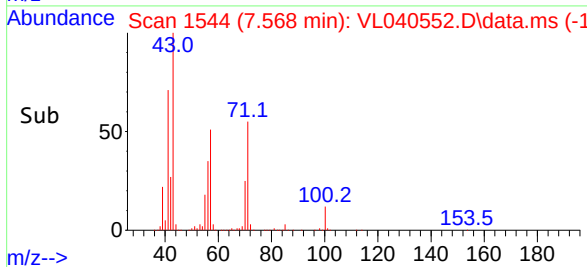
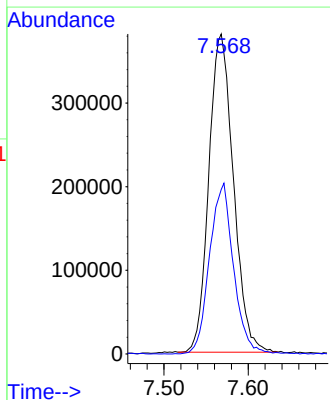
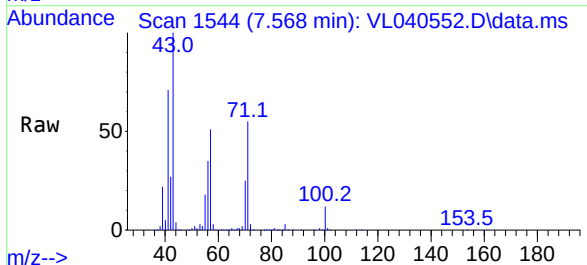
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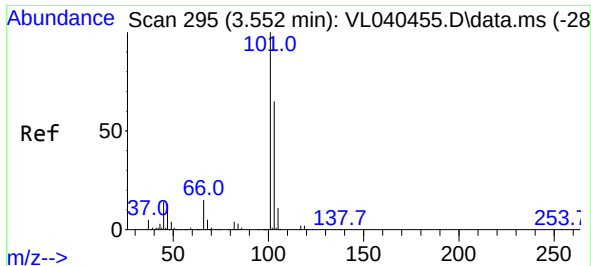
Reviewed By :Semsettin Yesilyurt 07/27/2023
 Supervised By :Mahesh Dadoda 07/27/2023



#10
 Heptane
 Concen: 5.928 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. -0.022 min
 Lab File: VL040552.D
 Acq: 26 Jul 2023 22:39

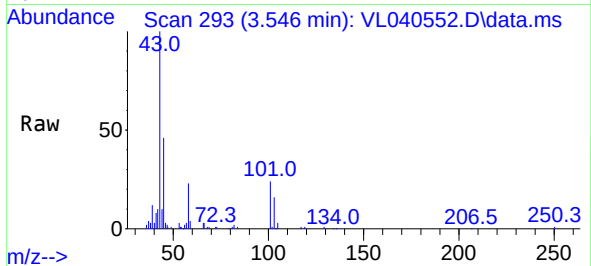
Tgt Ion: 43 Resp: 770752
 Ion Ratio Lower Upper
 43 100
 57 52.5 42.5 63.7





#11
Trichlorofluoromethane
Concen: 0.085 ppbv
RT: 3.546 min Scan# 295
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

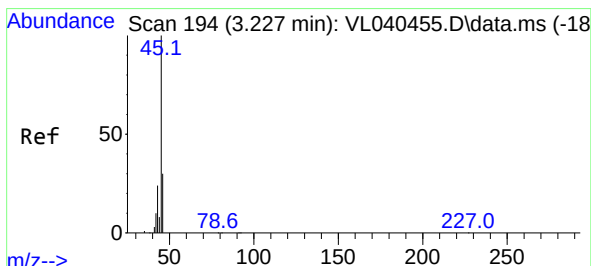
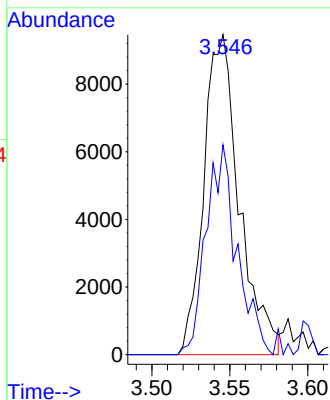
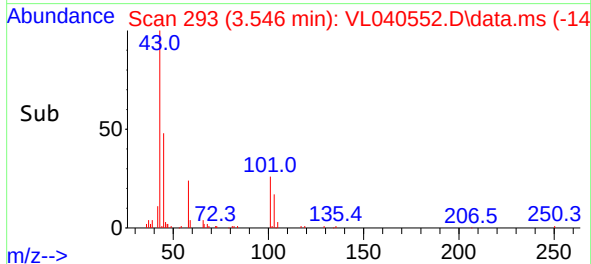
Instrument :
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ClientSampleId :
SV-23-20230721



Tgt Ion:101 Resp: 14928
Ion Ratio Lower Upper
101 100
103 65.5 53.4 80.0

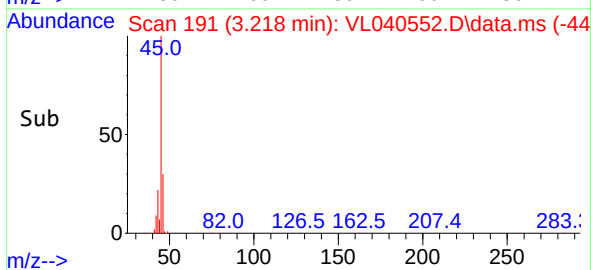
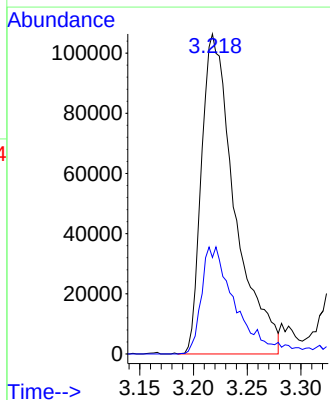
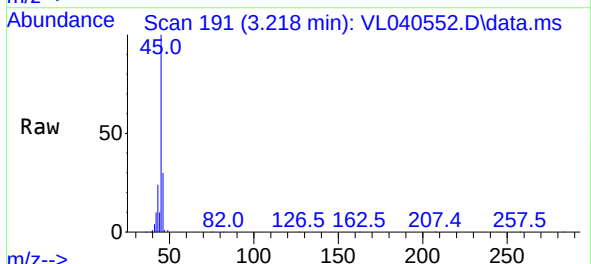
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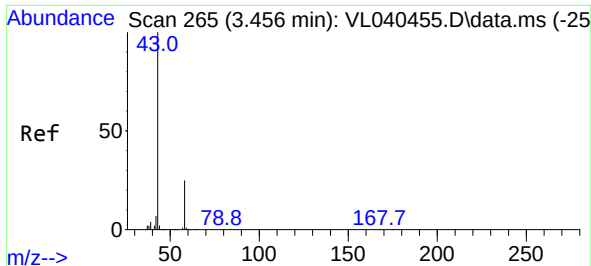
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#13
Ethanol
Concen: 17.825 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.029 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

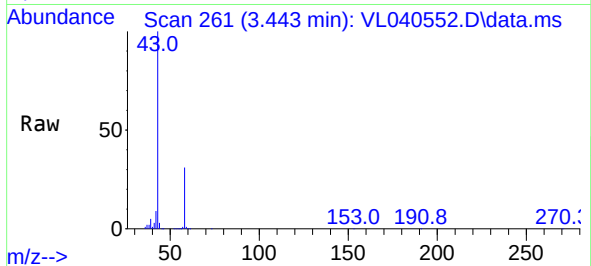
Tgt Ion: 45 Resp: 228370
Ion Ratio Lower Upper
45 100
46 35.0 15.3 61.1





#15
Acetone
Concen: 43.273 ppbv
RT: 3.443 min Scan# 20
Delta R.T. -0.032 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

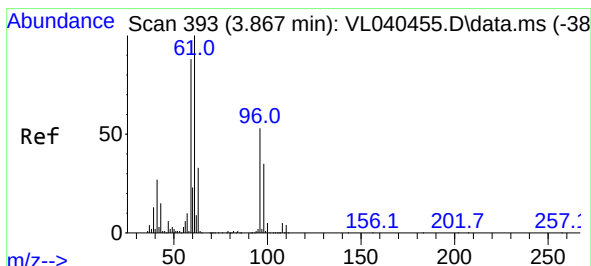
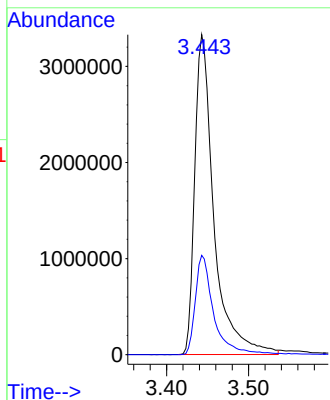
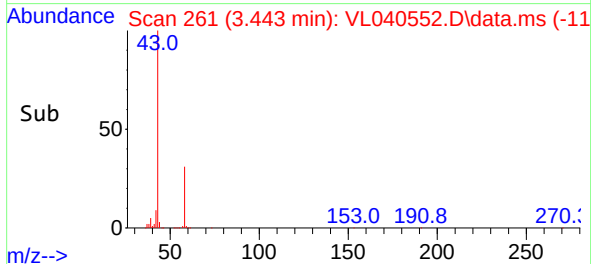
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



Tgt Ion: 43 Resp: 540523
Ion Ratio Lower Upper
43 100
58 30.4 22.9 34.3

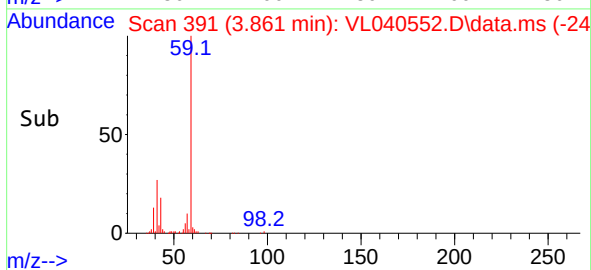
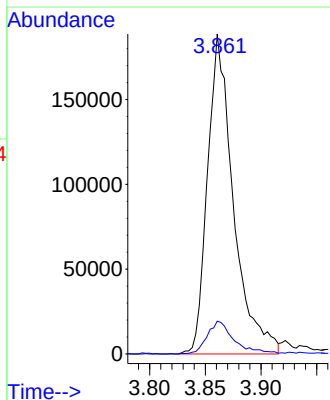
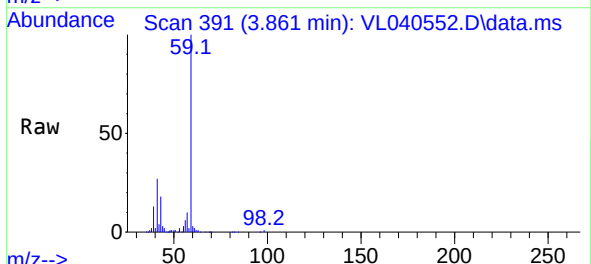
Manual Integrations
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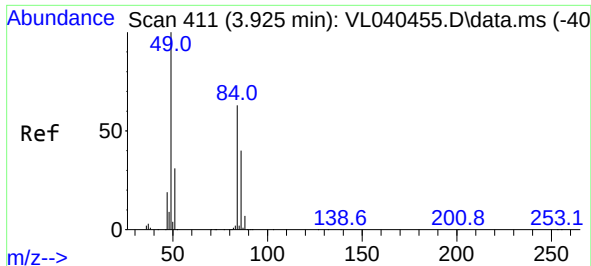
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#17
tert-Butyl alcohol
Concen: 2.357 ppbv
RT: 3.861 min Scan# 391
Delta R.T. -0.023 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

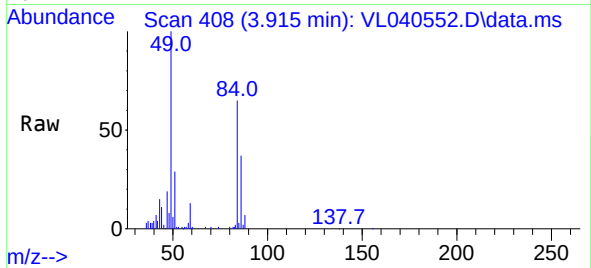
Tgt Ion: 59 Resp: 304565
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1





#20
Methylene Chloride
Concen: 0.745 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

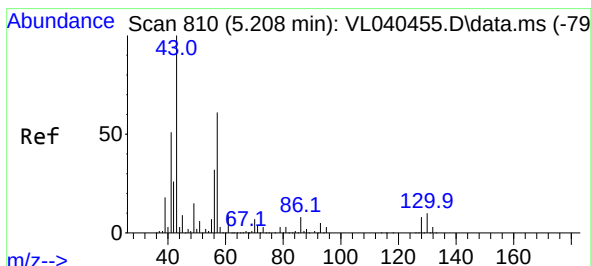
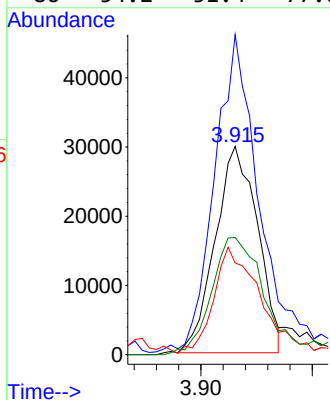
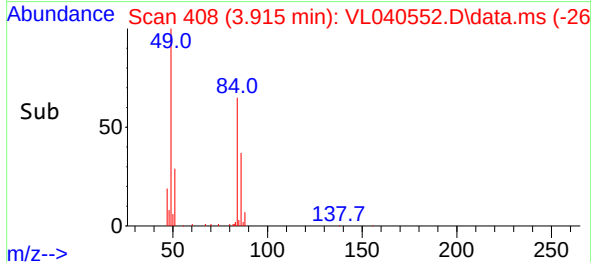
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



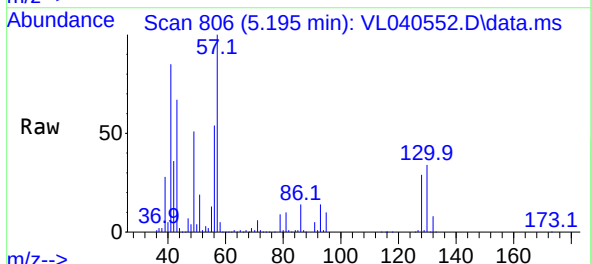
Tgt Ion: 84 Resp: 39579
Ion Ratio Lower Upper
84 100
49 152.2 123.4 185.2
51 43.8 38.3 57.5
86 54.2 51.4 77.0

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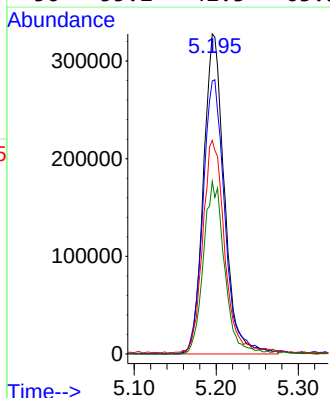
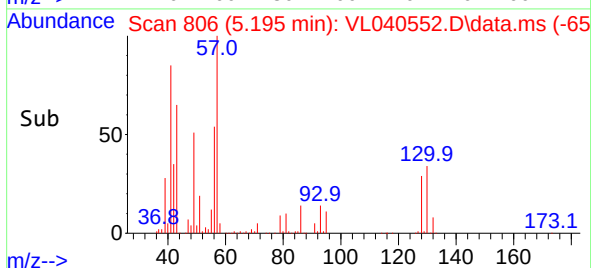
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

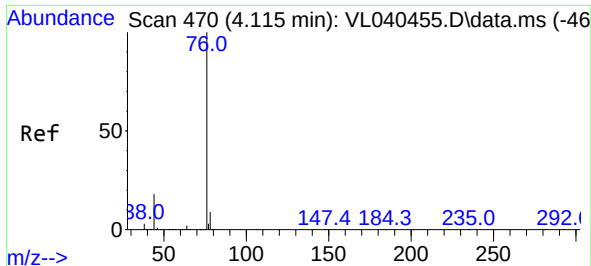


#26
Hexane
Concen: 5.247 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39



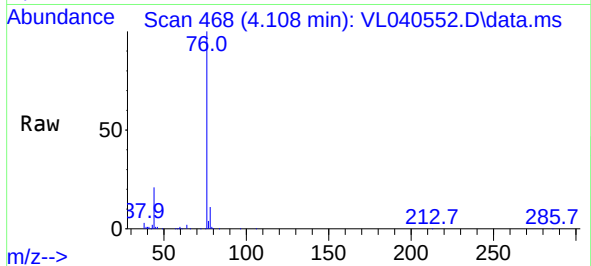
Tgt Ion: 57 Resp: 579664
Ion Ratio Lower Upper
57 100
41 90.6 69.5 104.3
43 69.3 177.1 265.7#
56 55.2 42.3 63.5





#27
Carbon Disulfide
Concen: 1.464 ppbv
RT: 4.108 min Scan# 41
Delta R.T. -0.022 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

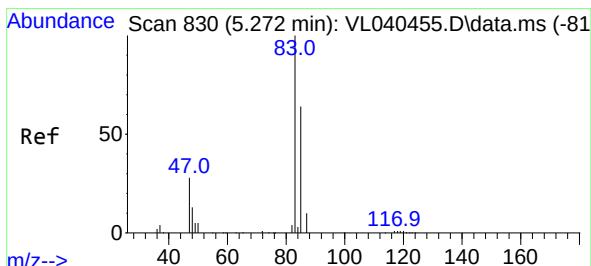
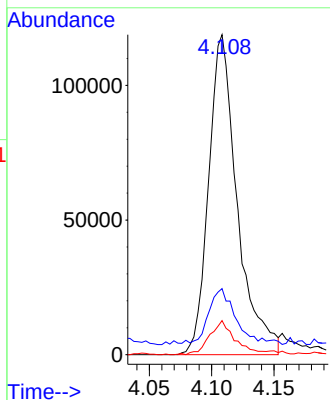
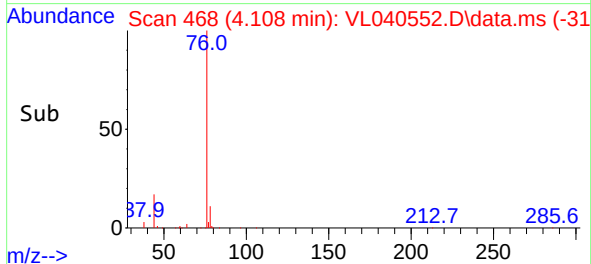
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



Tgt Ion: 76 Resp: 190219
Ion Ratio Lower Upper
76 100
44 18.3 15.1 22.7
78 10.1 7.5 11.3

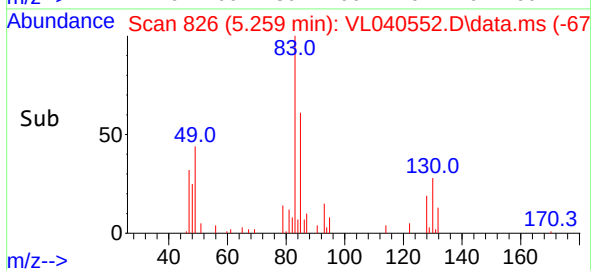
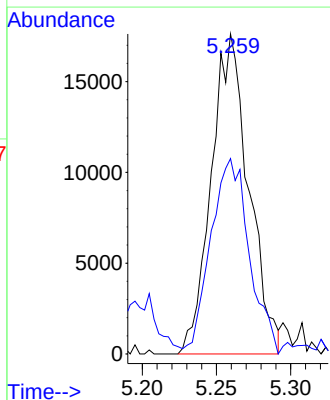
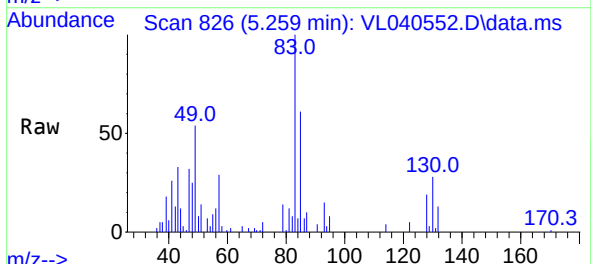
Manual Integrations
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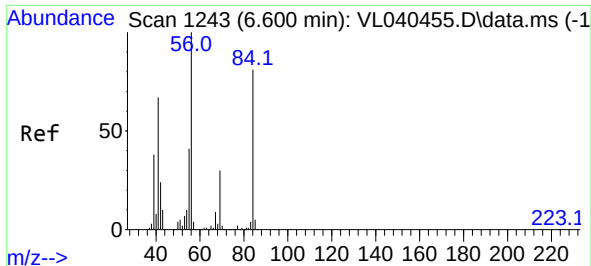
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#29
Chloroform
Concen: 0.169 ppbv
RT: 5.259 min Scan# 826
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

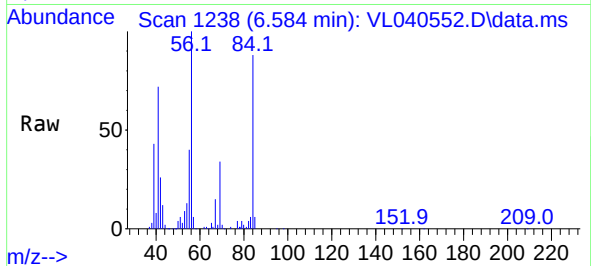
Tgt Ion: 83 Resp: 30936
Ion Ratio Lower Upper
83 100
85 61.1 51.1 76.7





#30
Cyclohexane
Concen: 2.529 ppbv
RT: 6.584 min Scan# 1238
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

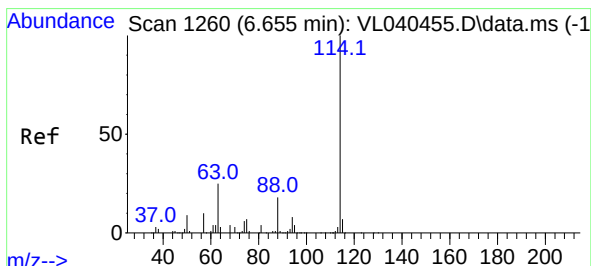
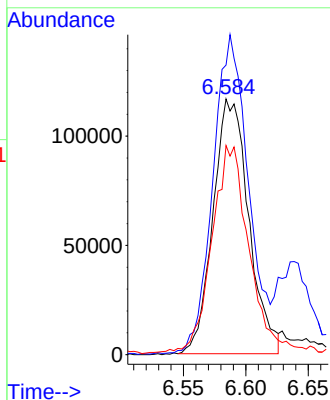
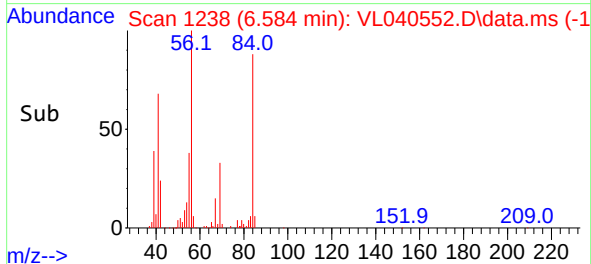
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



Tgt Ion: 84 Resp: 232529
Ion Ratio Lower Upper
84 100
56 124.9 108.7 163.1
41 84.1 64.5 96.7

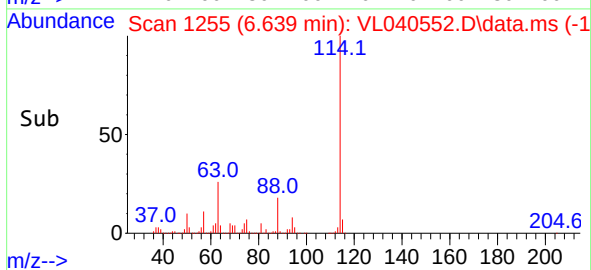
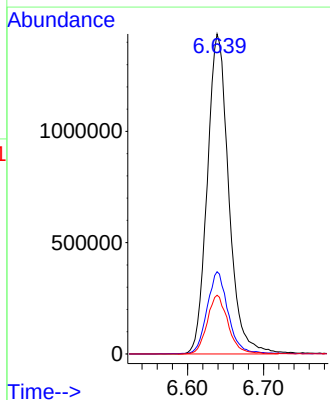
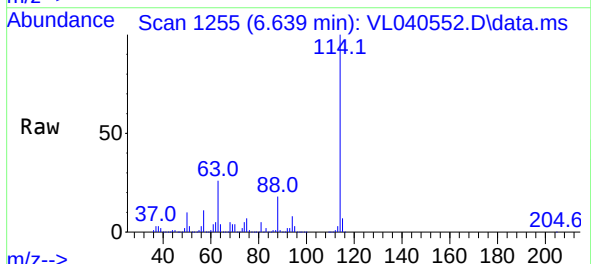
Manual Integrations
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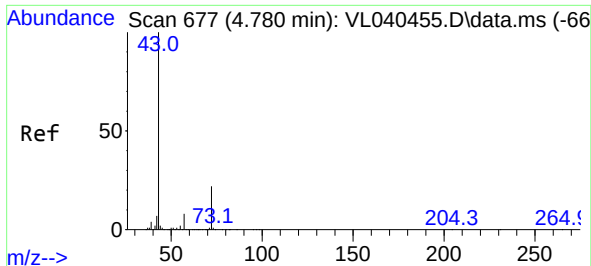
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

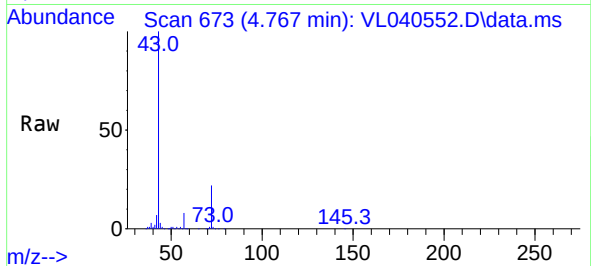
Tgt Ion:114 Resp: 2822614
Ion Ratio Lower Upper
114 100
63 25.6 19.6 29.4
88 18.0 14.2 21.2





#34
2-Butanone
Concen: 11.079 ppbv
RT: 4.767 min Scan# 61
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

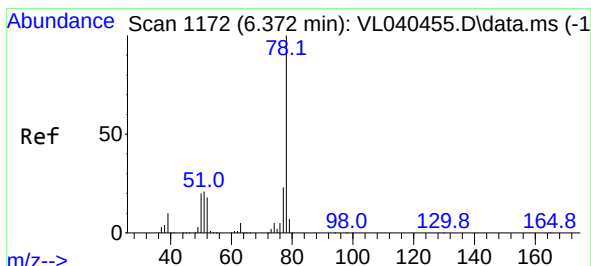
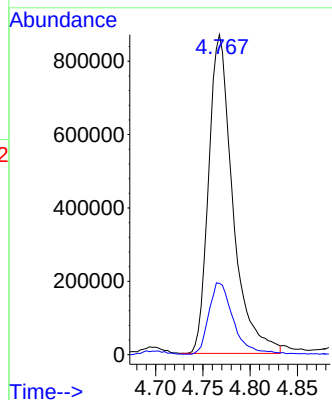
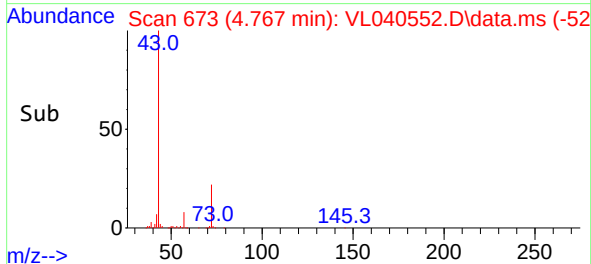
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



Tgt Ion: 43 Resp: 154518
Ion Ratio Lower Upper
43 100
72 23.6 19.1 28.7

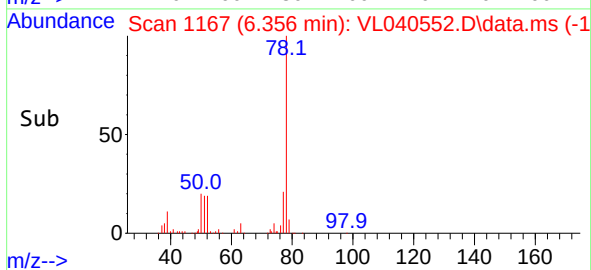
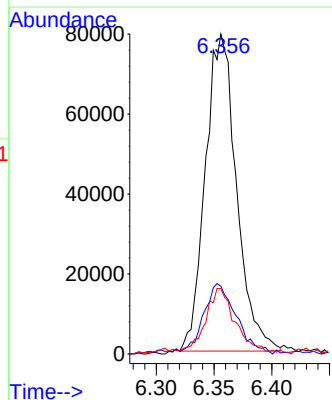
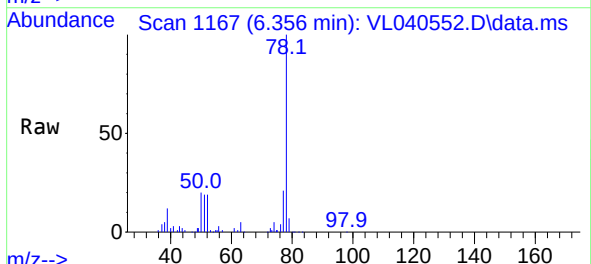
Manual Integrations
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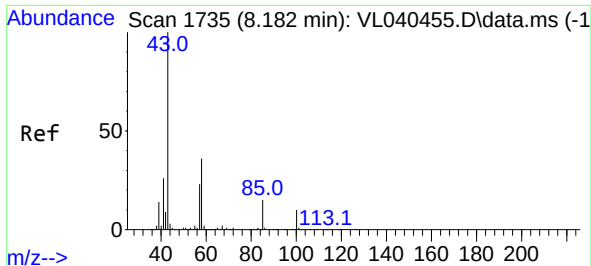
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#36
Benzene
Concen: 0.655 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.026 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

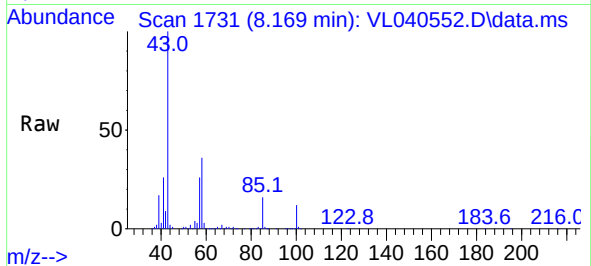
Tgt Ion: 78 Resp: 148740
Ion Ratio Lower Upper
78 100
77 21.1 17.4 26.0
50 19.6 14.4 21.6





#50
4-Methyl-2-Pentanone
Concen: 7.682 ppbv
RT: 8.169 min Scan# 1731
Delta R.T. -0.023 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

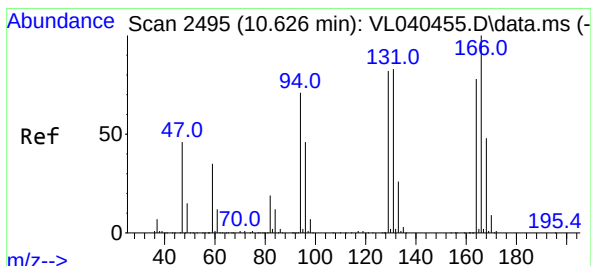
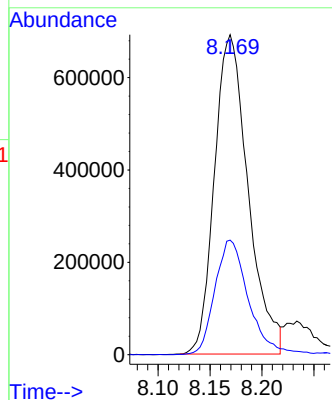
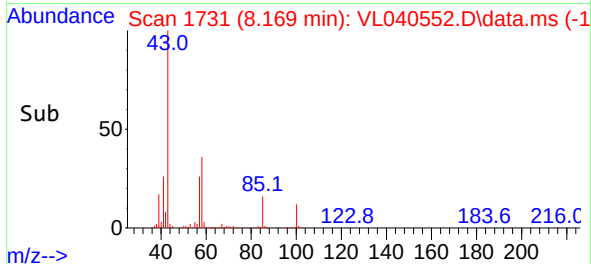
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



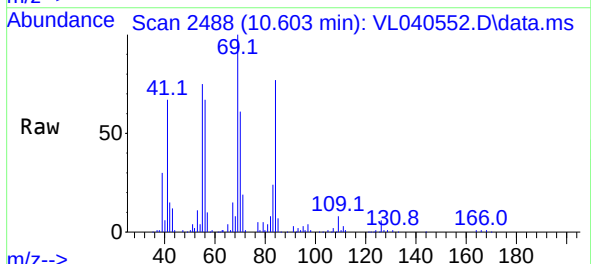
Tgt Ion: 43 Resp: 155671
Ion Ratio Lower Upper
43 100
58 36.5 30.2 45.2

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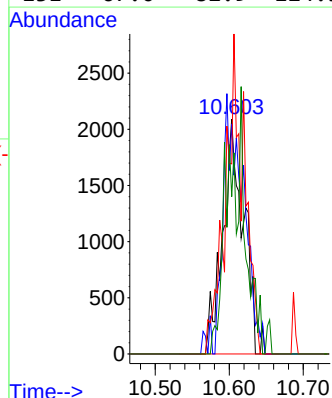
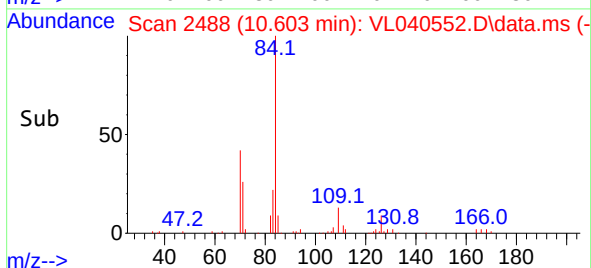
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

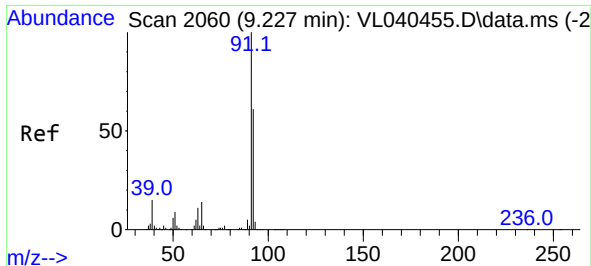


#52
Tetrachloroethene
Concen: 0.055 ppbv m
RT: 10.603 min Scan# 2488
Delta R.T. -0.023 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39



Tgt Ion:164 Resp: 4049
Ion Ratio Lower Upper
164 100
166 98.0 103.9 155.9#
129 81.0 84.6 126.8#
131 67.0 82.9 124.3#





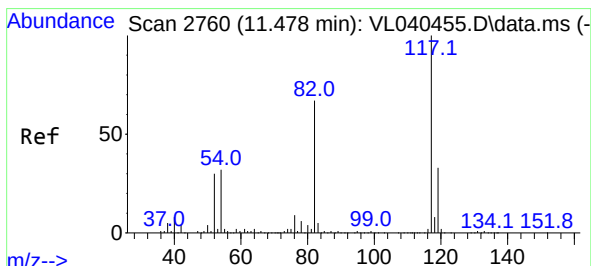
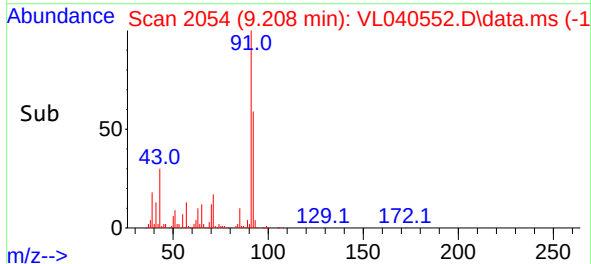
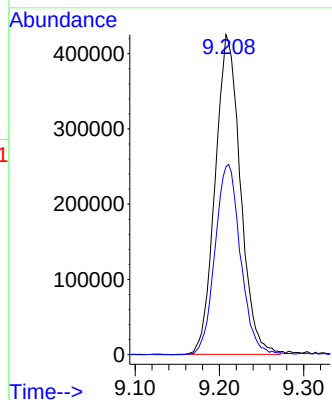
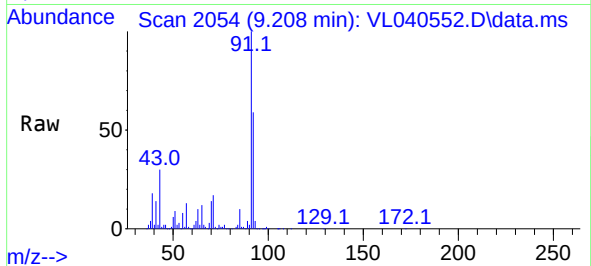
#53
Toluene
Concen: 3.579 ppbv
RT: 9.208 min Scan# 2060
Delta R.T. -0.023 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721

Tgt Ion: 91 Resp: 883029
Ion Ratio Lower Upper
91 100
92 60.2 49.1 73.7

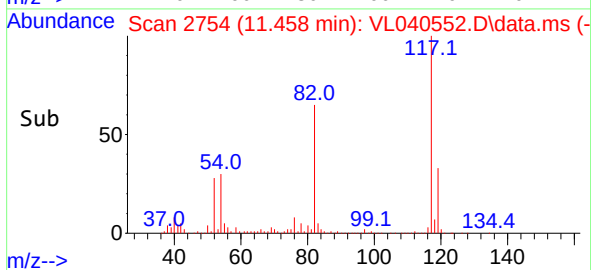
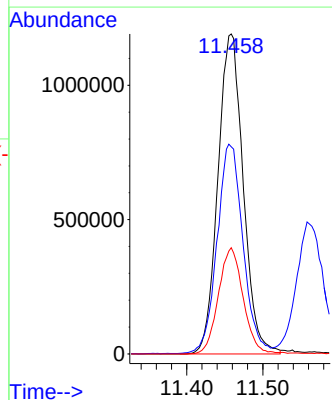
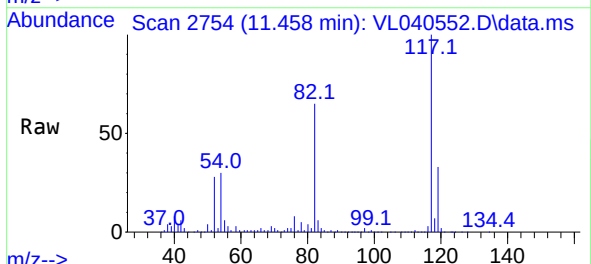
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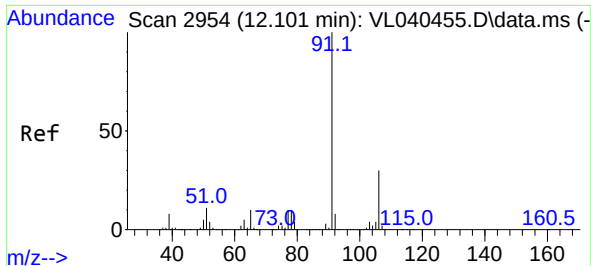
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. -0.019 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

Tgt Ion:117 Resp: 2747685
Ion Ratio Lower Upper
117 100
82 67.5 50.2 75.4
119 33.0 26.9 40.3





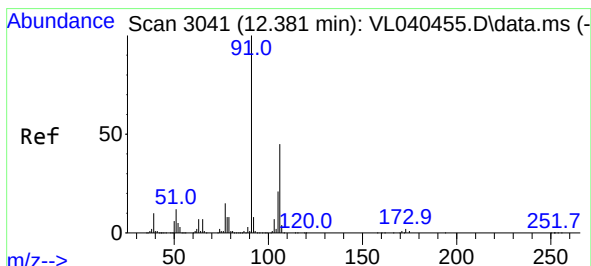
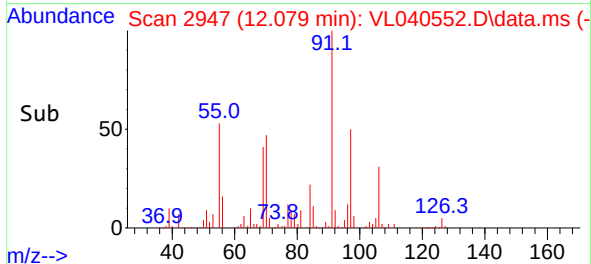
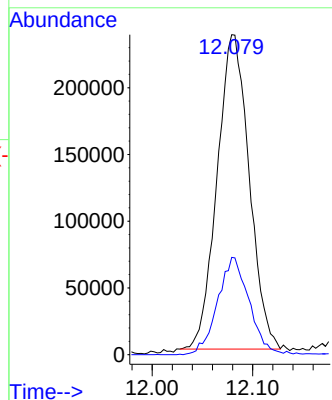
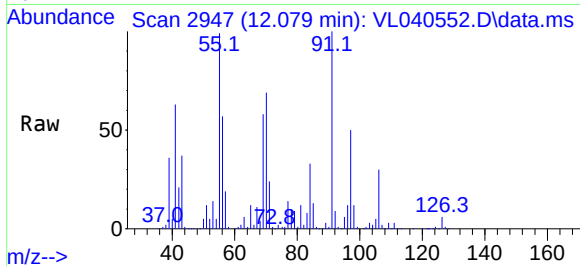
#58
Ethyl Benzene
Concen: 1.515 ppbv
RT: 12.079 min Scan# 2954
Delta R.T. -0.023 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721

Tgt Ion: 91 Resp: 522428
Ion Ratio Lower Upper
91 100
106 30.8 25.4 38.0

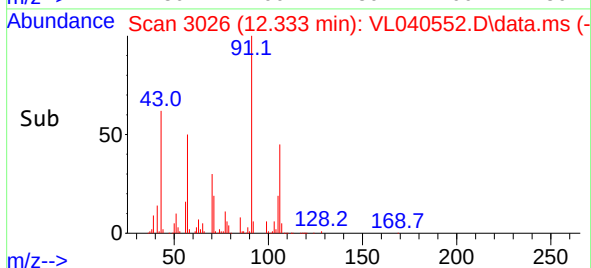
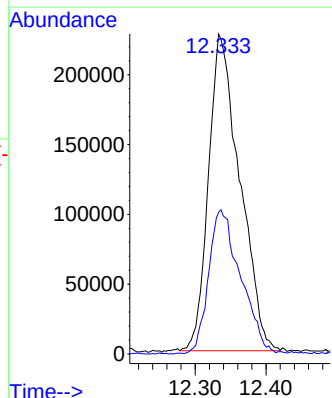
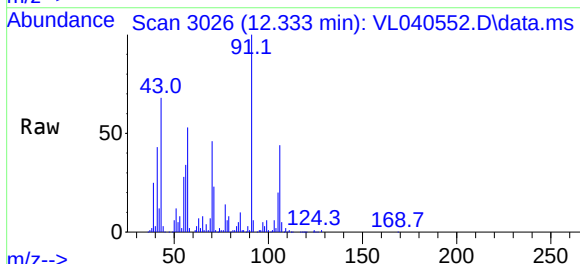
Manual Integrations
APPROVED

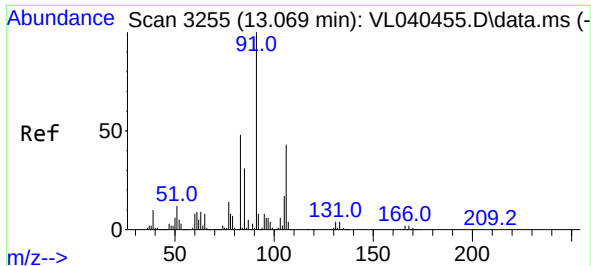
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#59
m/p-Xylene
Concen: 2.259 ppbv
RT: 12.333 min Scan# 3026
Delta R.T. -0.051 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

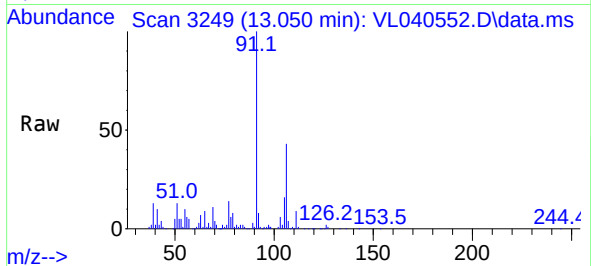
Tgt Ion: 91 Resp: 695091
Ion Ratio Lower Upper
91 100
106 47.1 35.9 53.9





#60
o-Xylene
Concen: 1.397 ppbv
RT: 13.050 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

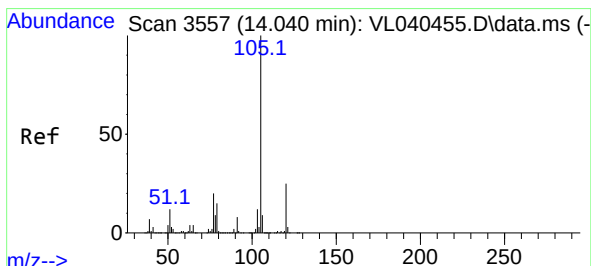
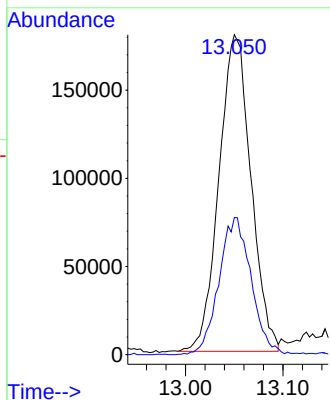
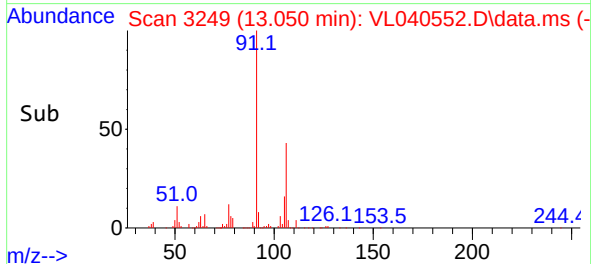
Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721



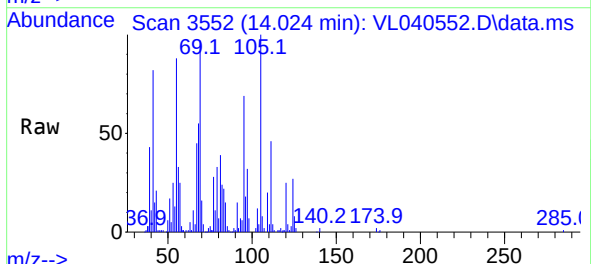
Tgt Ion: 91 Resp: 40948
Ion Ratio Lower Upper
91 100
106 43.7 22.7 68.0

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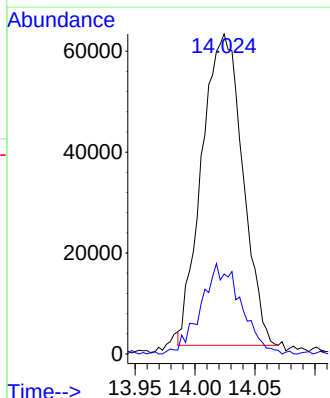
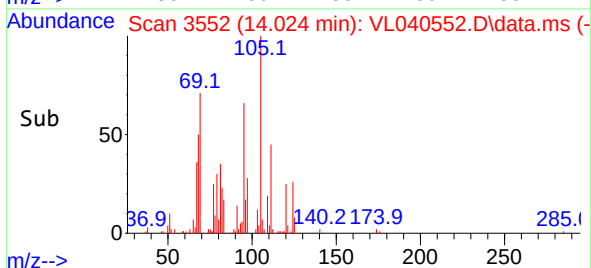
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023

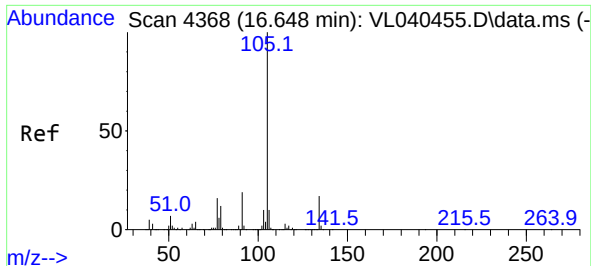


#62
Isopropylbenzene
Concen: 0.332 ppbv
RT: 14.024 min Scan# 3552
Delta R.T. -0.016 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39



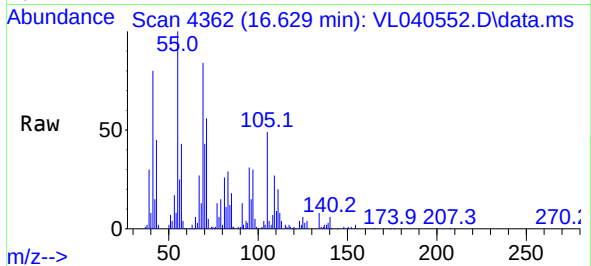
Tgt Ion:105 Resp: 146106
Ion Ratio Lower Upper
105 100
120 28.5 20.8 31.2





#67
 sec-Butylbenzene
 Concen: 0.108 ppbv m
 RT: 16.629 min Scan# 4368
 Delta R.T. -0.019 min
 Lab File: VL040552.D
 Acq: 26 Jul 2023 22:39

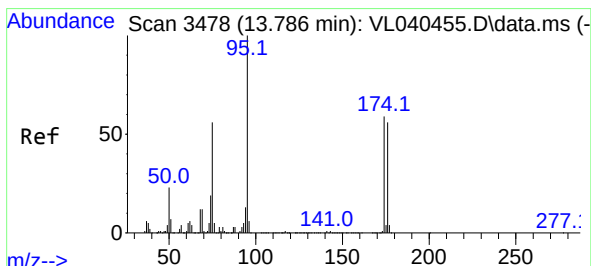
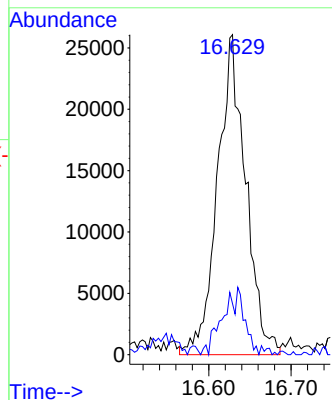
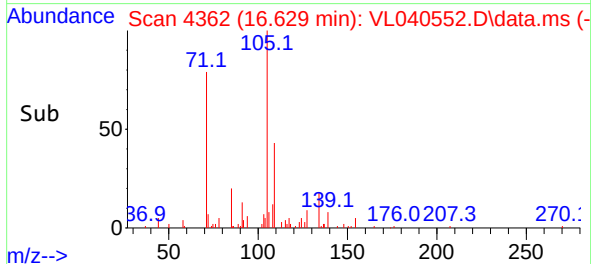
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-23-20230721



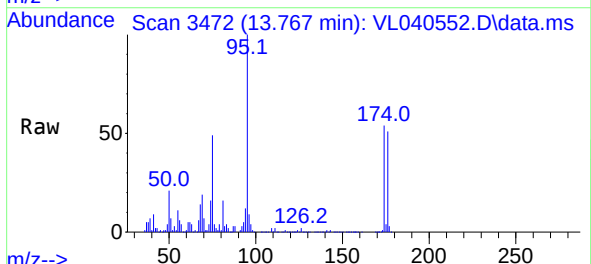
Tgt Ion:105 Resp: 61928
 Ion Ratio Lower Upper
 105 100
 134 17.9 14.4 21.6

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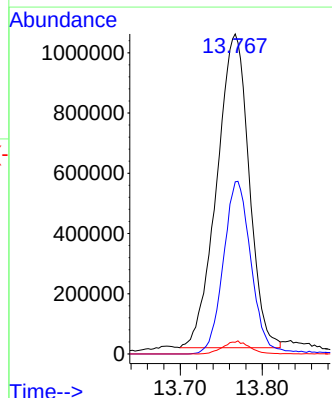
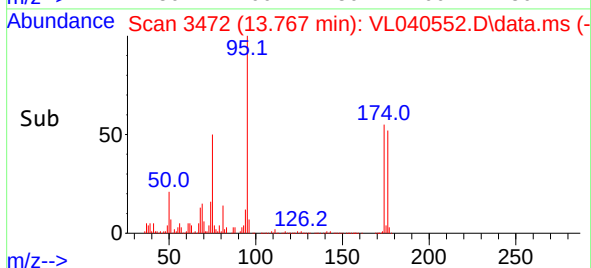
Reviewed By :Semsettin Yesilyurt 07/27/2023
 Supervised By :Mahesh Dadoda 07/27/2023

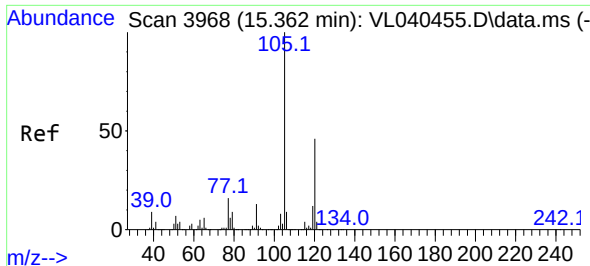


#68
 1-Bromo-4-Fluorobenzene
 Concen: 13.087 ppbv
 RT: 13.767 min Scan# 3472
 Delta R.T. -0.016 min
 Lab File: VL040552.D
 Acq: 26 Jul 2023 22:39



Tgt Ion: 95 Resp: 2845836
 Ion Ratio Lower Upper
 95 100
 174 48.2 50.6 75.8#
 175 3.4 3.7 5.5#





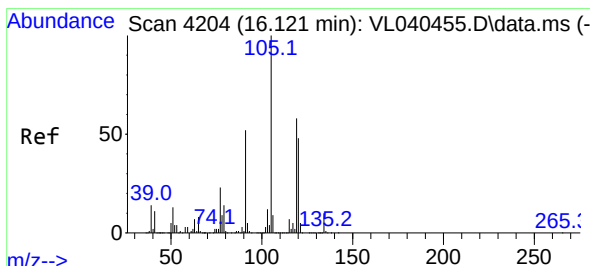
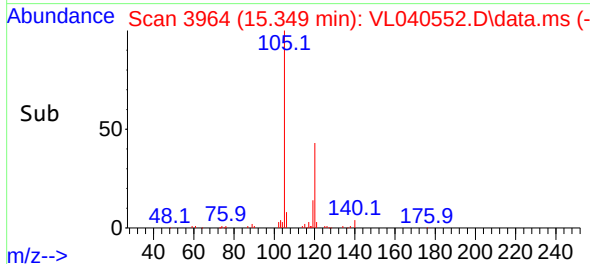
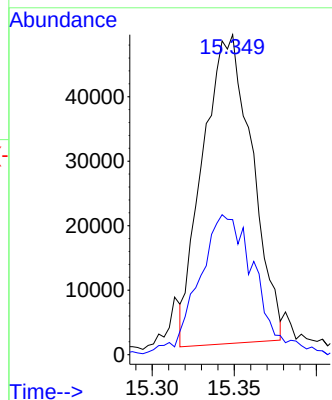
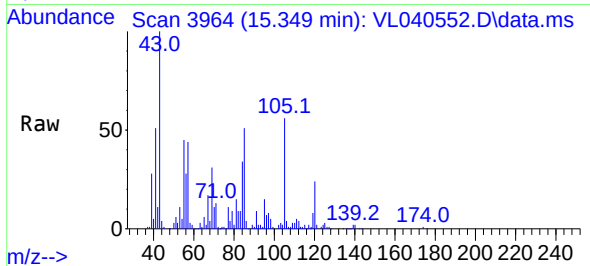
#73
1,3,5-Trimethylbenzene
Concen: 0.330 ppbv
RT: 15.349 min Scan# 3964
Delta R.T. -0.013 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

Instrument :
MSVOA_L
ClientSampleId :
SV-23-20230721

Tgt Ion:105 Resp: 9998
Ion Ratio Lower Upper
105 100
120 40.4 38.2 57.2

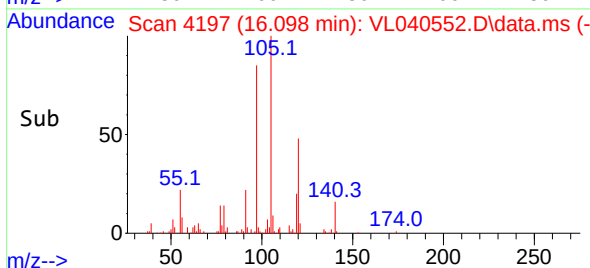
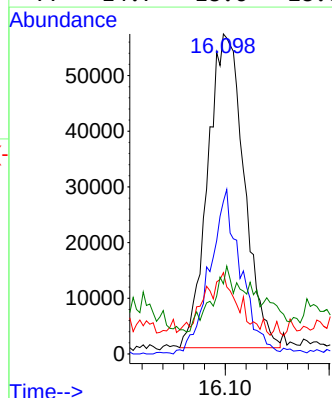
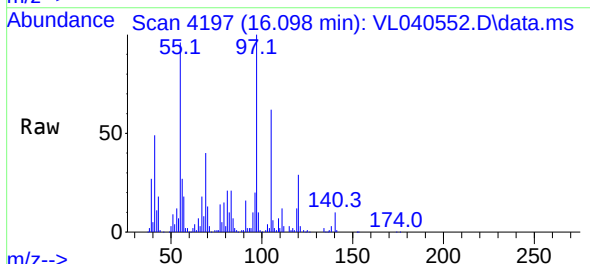
Manual Integrations
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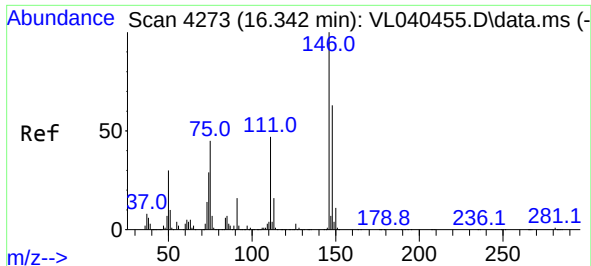
Reviewed By :Semsettin Yesilyurt 07/27/2023
Supervised By :Mahesh Dadoda 07/27/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.387 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. -0.019 min
Lab File: VL040552.D
Acq: 26 Jul 2023 22:39

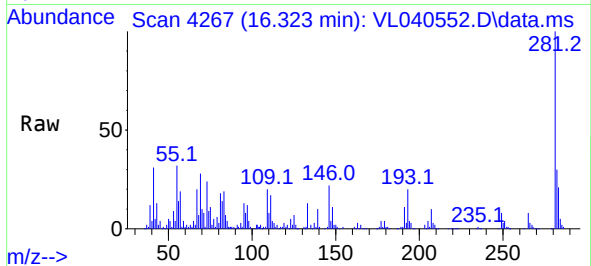
Tgt Ion:105 Resp: 136600
Ion Ratio Lower Upper
105 100
120 48.0 40.3 60.5
91 18.7 46.8 70.2#
77 14.7 18.6 28.0#





#75
 1,3-Dichlorobenzene
 Concen: 0.365 ppbv
 RT: 16.323 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL040552.D
 Acq: 26 Jul 2023 22:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-23-20230721



Tgt Ion:146 Resp: 7812
 Ion Ratio Lower Upper
 146 100
 111 130.0 23.6 71.0
 148 78.0 32.2 96.6

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

