

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041265.D
 Acq On : 21 May 2024 14:53
 Operator : SY/MD
 Sample : P2533-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024
 Supervised By :Mahesh Dadoda 05/22/2024

Quant Time: May 22 05:44:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Wed May 22 05:39:49 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1084695	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2814199	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2633845	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2124638 10.685 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.745	85	19097m	0.130	ppbv	
3) Chlorodifluoromethane	2.690	51	413269	2.509	ppbv	99
9) Propene	2.722	41	15453	0.240	ppbv	88
10) Heptane	7.581	43	36775m	0.235	ppbv	
13) Ethanol	3.259	45	10731m	0.743	ppbv	
15) Acetone	3.484	43	269939	2.109	ppbv #	78
20) Methylene Chloride	3.944	84	260190	5.845	ppbv	96
26) Hexane	5.217	57	314288	2.756	ppbv #	40
27) Carbon Disulfide	4.137	76	39374m	0.292	ppbv	
29) Chloroform	5.279	83	153397	0.975	ppbv	95
31) cis-1,2-Dichloroethene	5.086	61	16124	0.151	ppbv	94
34) 2-Butanone	4.796	43	855134	5.970	ppbv	99
35) Carbon Tetrachloride	6.500	117	11849m	0.075	ppbv	
38) Trichloroethene	7.298	130	319830	3.634	ppbv	93
44) 2,2,4-Trimethylpentane	7.330	57	44469m	0.109	ppbv	
51) 2-Hexanone	9.558	43	198384	1.040	ppbv #	94
52) Tetrachloroethene	10.622	164	3833695	46.186	ppbv	99
53) Toluene	9.224	91	118524	0.433	ppbv	99
58) Ethyl Benzene	12.089	91	51527	0.143	ppbv	99
59) m/p-Xylene	12.349	91	138217m	0.455	ppbv	
60) o-Xylene	13.060	91	79785	0.280	ppbv	96
72) 4-Ethyltoluene	15.195	105	59573	0.185	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.358	105	72379	0.248	ppbv	99
74) 1,2,4-Trimethylbenzene	16.104	105	251413	0.789	ppbv #	65

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

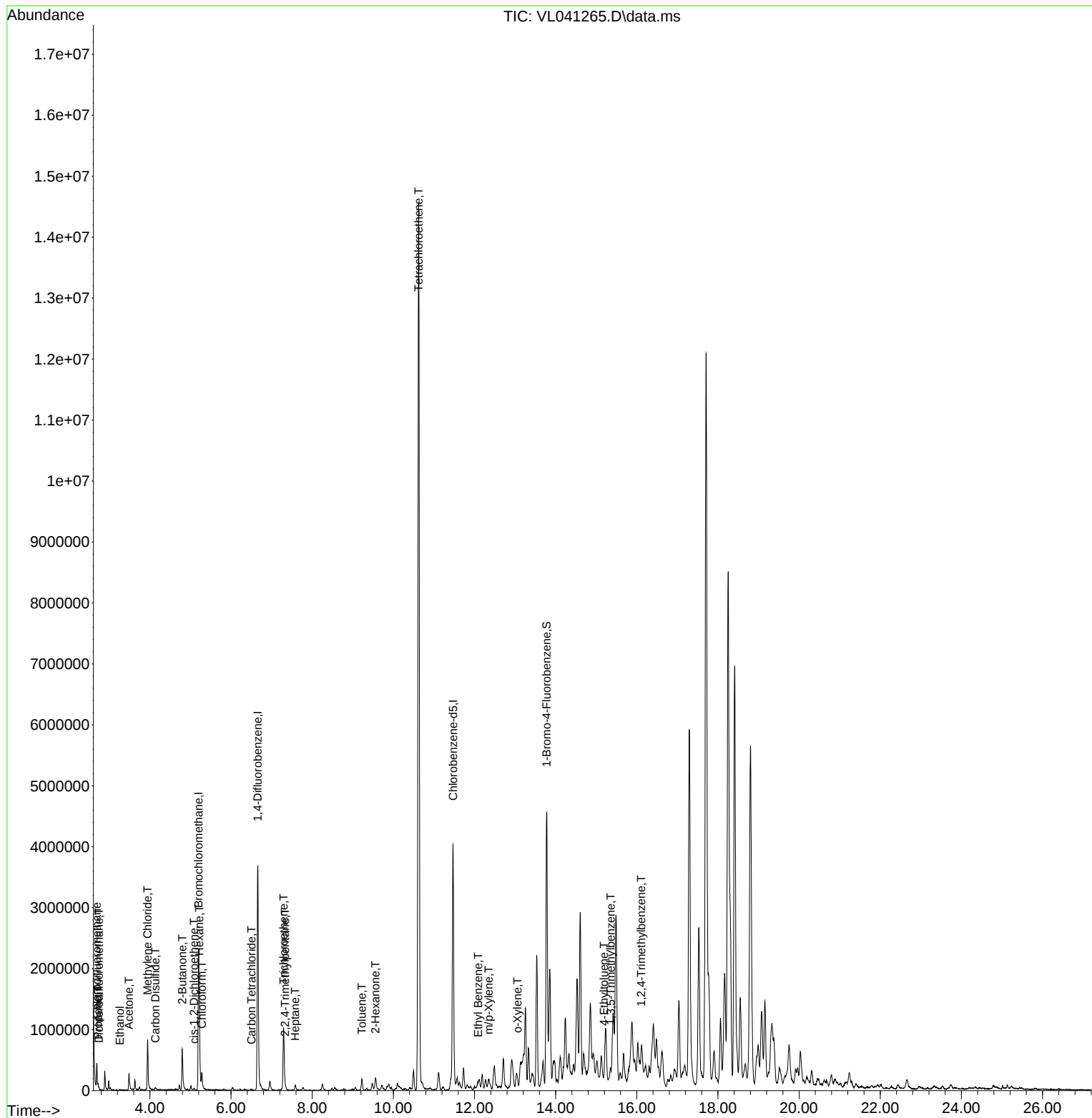
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
Data File : VL041265.D
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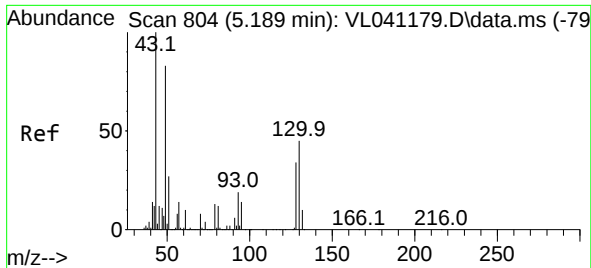
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: May 22 05:44:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed May 22 05:39:49 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

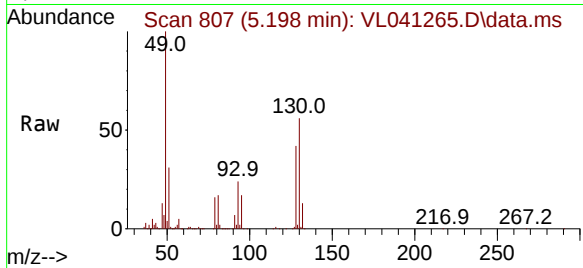
Reviewed By : Semsettin Yesilyurt 05/22/2024
Supervised By : Mahesh Dadoda 05/22/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

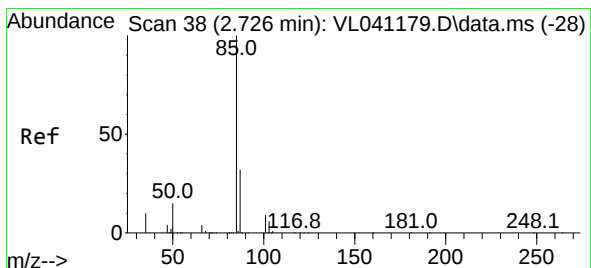
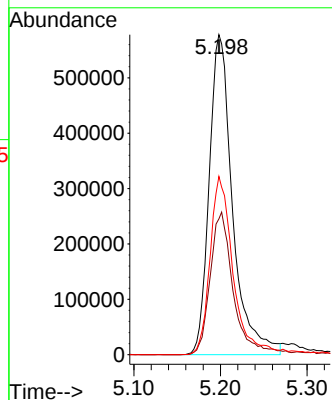
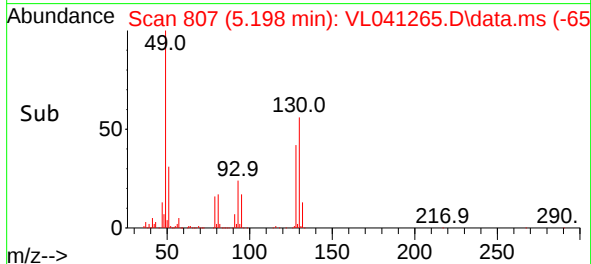
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 108469
Ion Ratio Lower Upper
49 100
128 45.5 21.5 64.5
130 57.2 27.2 81.6

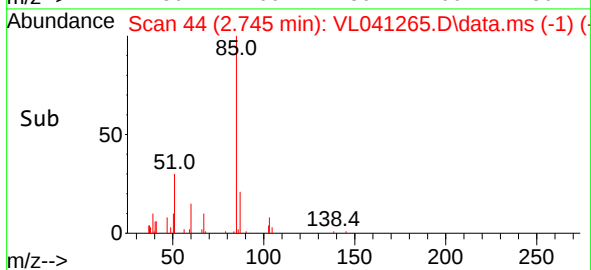
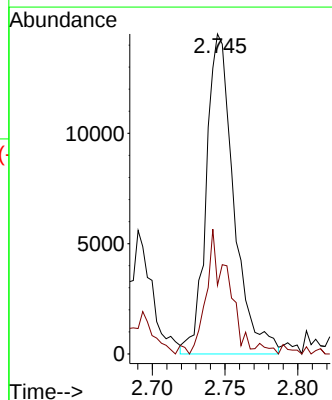
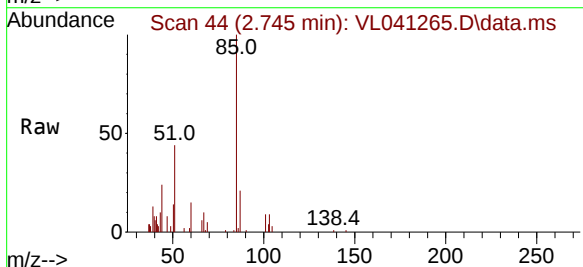
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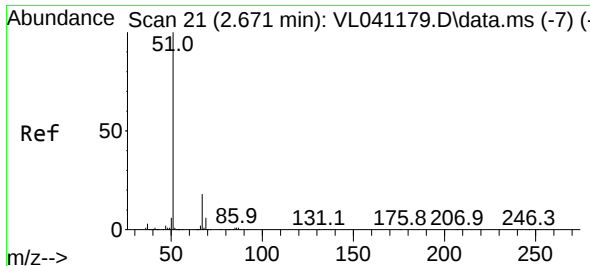
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#2
Dichlorodifluoromethane
Concen: 0.130 ppbv m
RT: 2.745 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 85 Resp: 19097
Ion Ratio Lower Upper
85 100
87 21.5 25.7 38.5





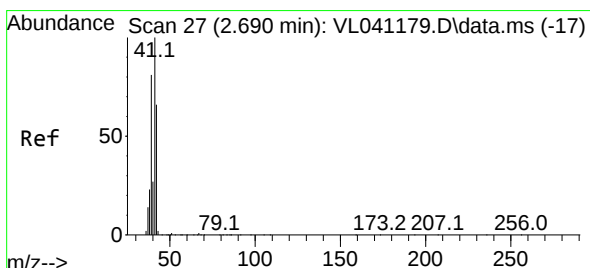
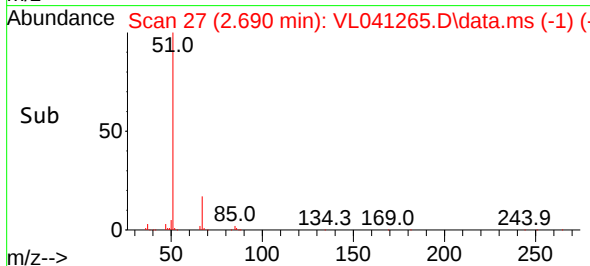
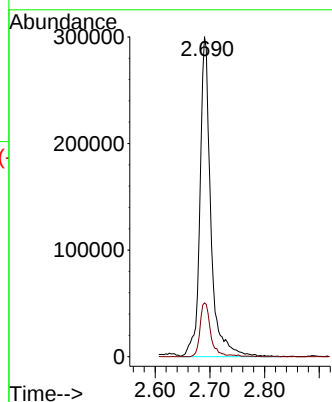
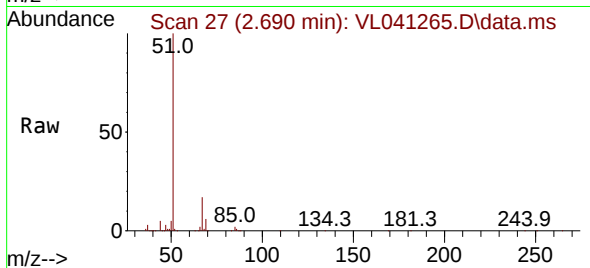
#3
Chlorodifluoromethane
Concen: 2.509 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 51 Resp: 413269
Ion Ratio Lower Upper
51 100
67 16.9 14.0 21.0

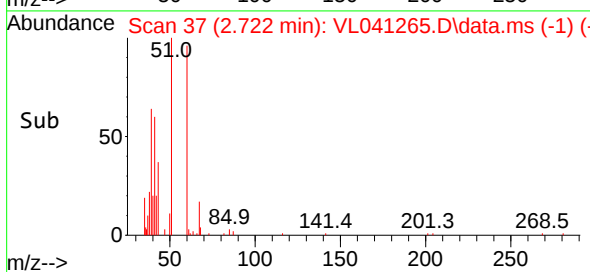
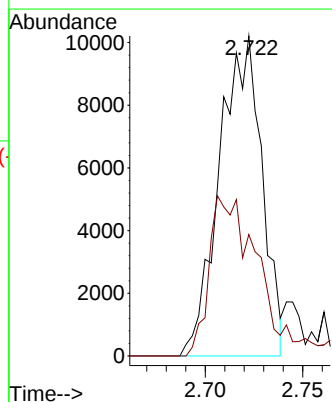
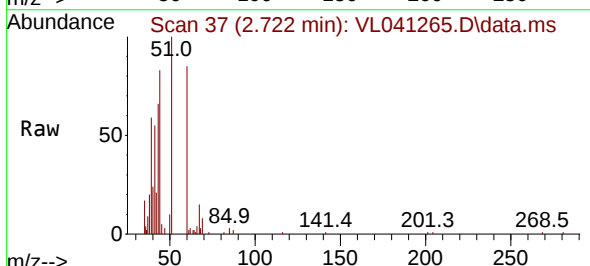
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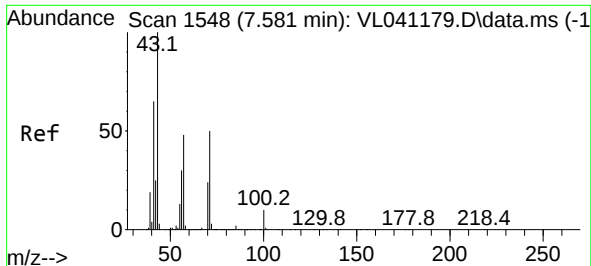
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#9
Propene
Concen: 0.240 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.010 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 41 Resp: 15453
Ion Ratio Lower Upper
41 100
42 59.7 55.3 82.9





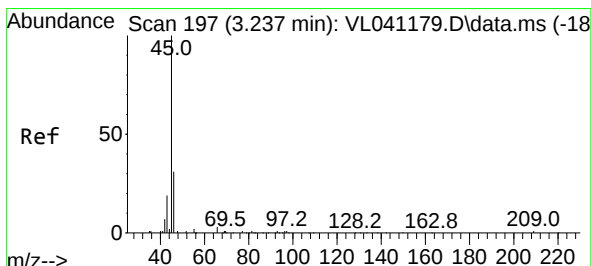
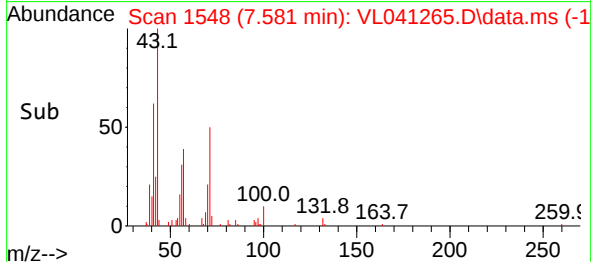
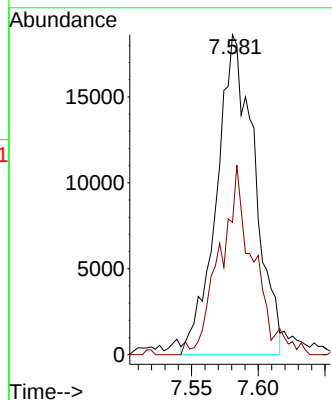
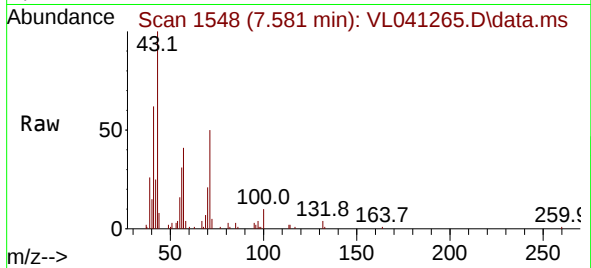
#10
Heptane
Concen: 0.235 ppbv m
RT: 7.581 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 36775
Ion Ratio Lower Upper
43 100
57 52.2 38.7 58.1

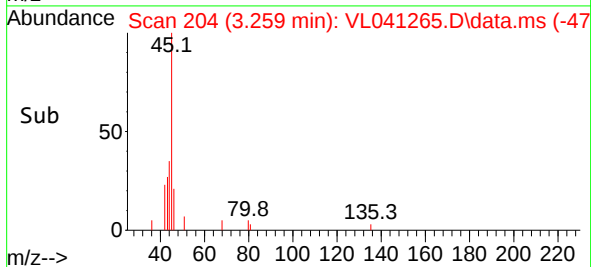
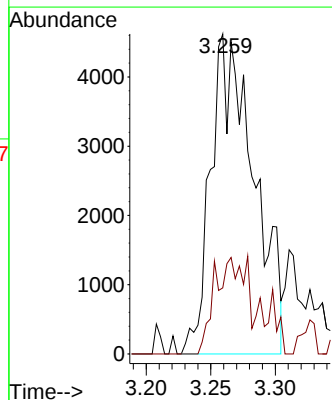
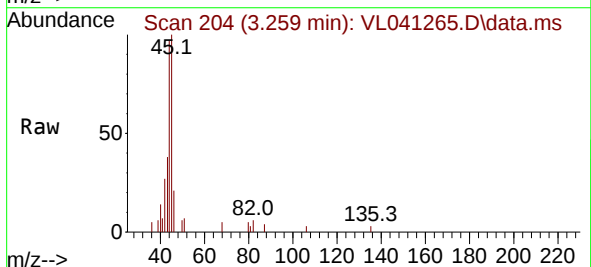
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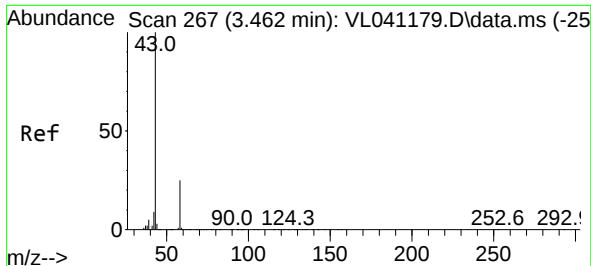
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#13
Ethanol
Concen: 0.743 ppbv m
RT: 3.259 min Scan# 204
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

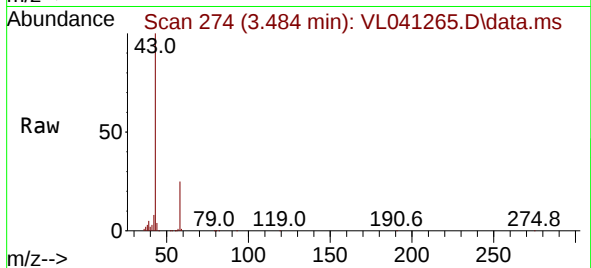
Tgt Ion: 45 Resp: 10731
Ion Ratio Lower Upper
45 100
46 0.0 14.8 59.0#





#15
Acetone
Concen: 2.109 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

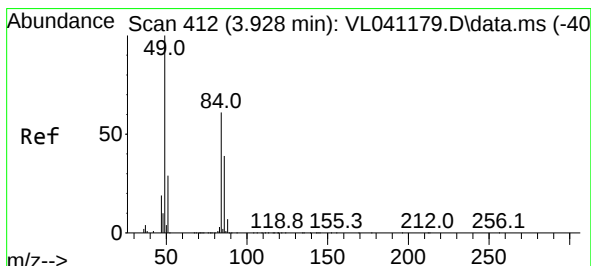
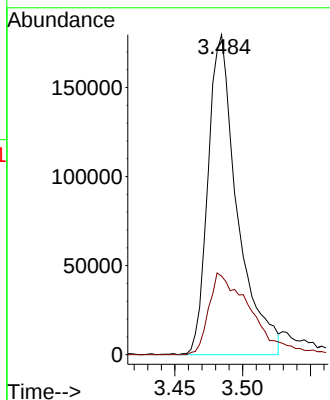
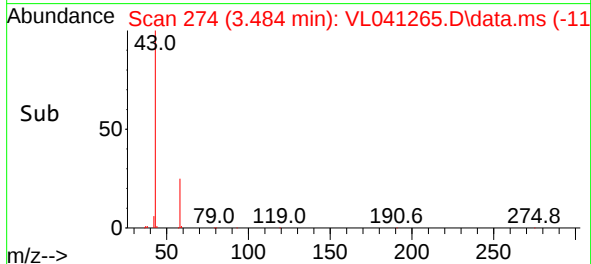
Instrument :
MSVOA_L
ClientSampleId :
SV2



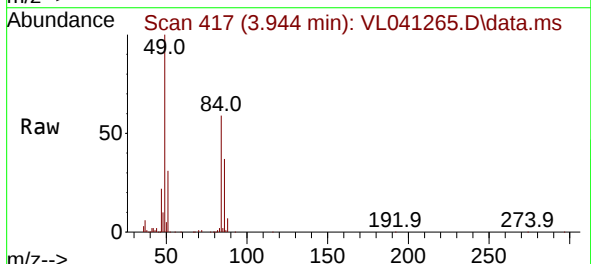
Tgt Ion: 43 Resp: 269939
Ion Ratio Lower Upper
43 100
58 38.0 21.4 32.0

Manual Integrations
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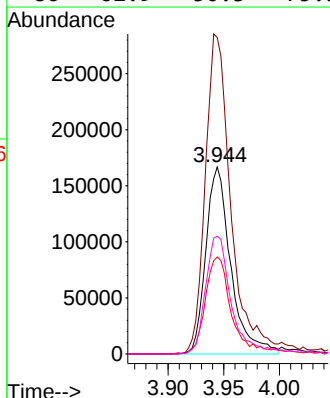
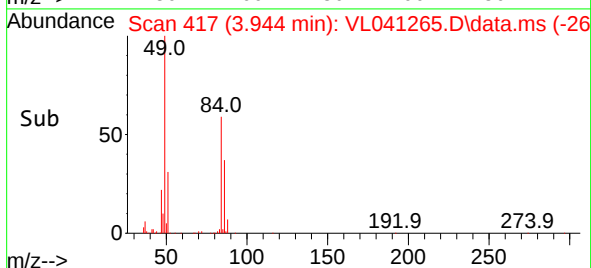
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

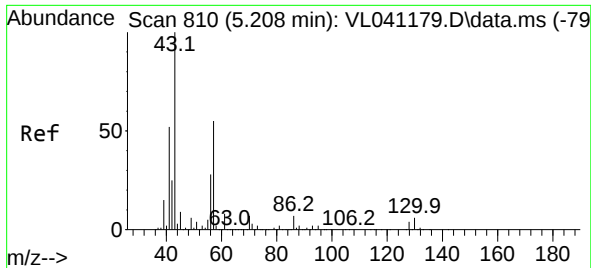


#20
Methylene Chloride
Concen: 5.845 ppbv
RT: 3.944 min Scan# 417
Delta R.T. -0.000 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53



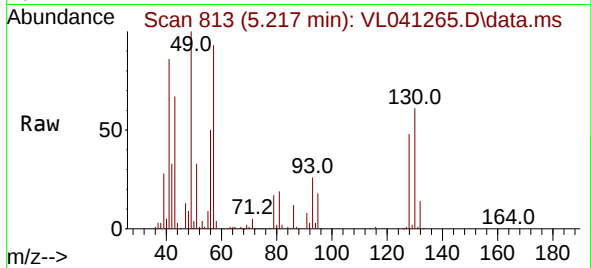
Tgt Ion: 84 Resp: 260190
Ion Ratio Lower Upper
84 100
49 168.6 130.4 195.6
51 51.9 38.0 57.0
86 62.9 50.3 75.5





#26
Hexane
Concen: 2.756 ppbv
RT: 5.217 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

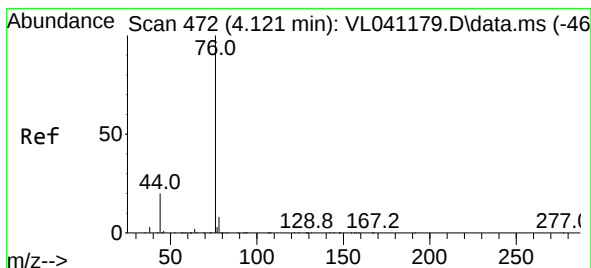
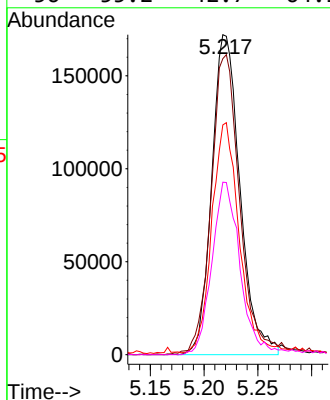
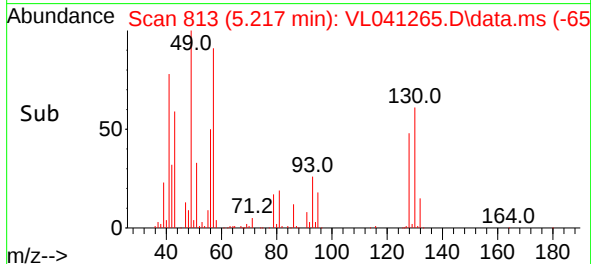
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 31428
Ion Ratio Lower Upper
57 100
41 97.8 75.8 113.8
43 72.5 187.0 280.4
56 55.2 42.7 64.1

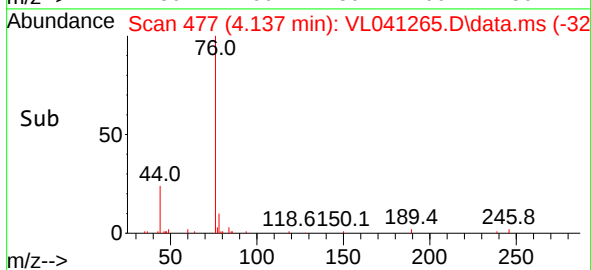
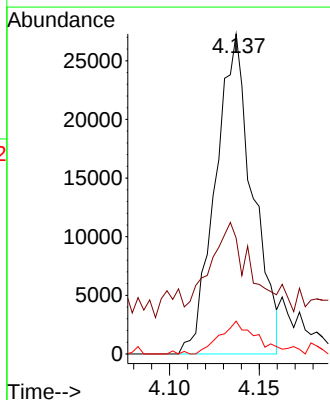
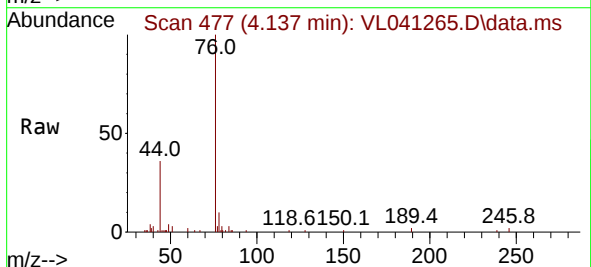
Manual Integrations
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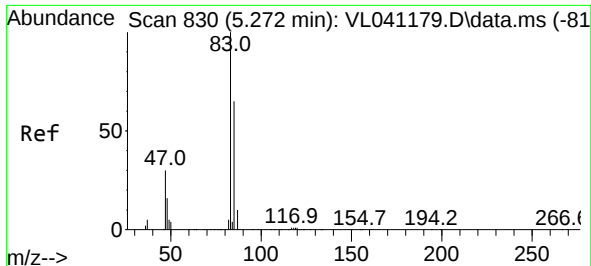
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#27
Carbon Disulfide
Concen: 0.292 ppbv m
RT: 4.137 min Scan# 477
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 76 Resp: 39374
Ion Ratio Lower Upper
76 100
44 46.0 16.3 24.5#
78 12.1 7.3 10.9#





#29

Chloroform

Concen: 0.975 ppbv

RT: 5.279 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 83 Resp: 15339

Ion Ratio Lower Upper

83 100

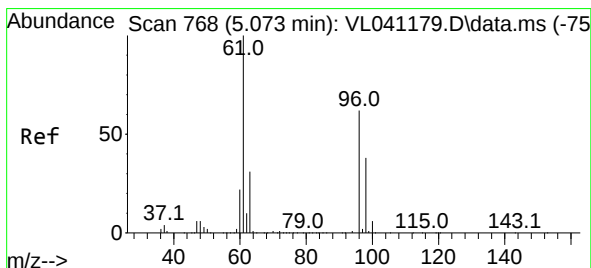
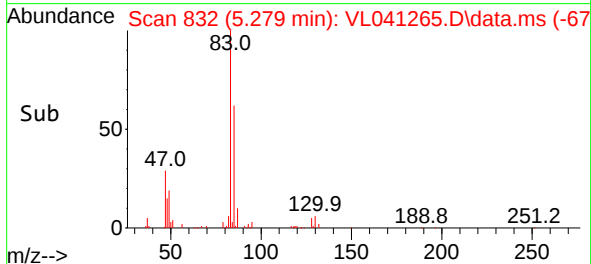
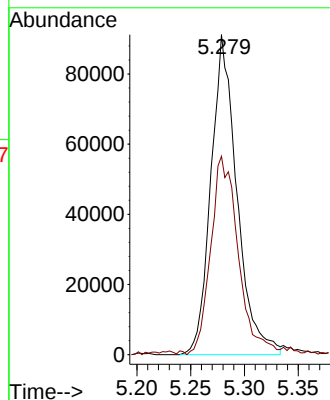
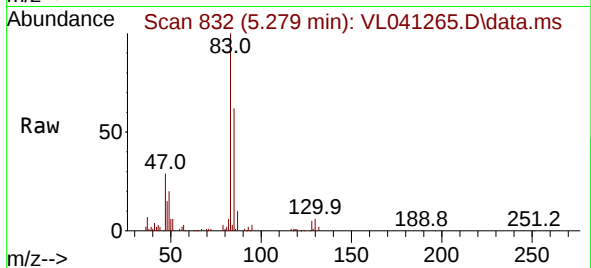
85 60.8 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#31

cis-1,2-Dichloroethene

Concen: 0.151 ppbv

RT: 5.086 min Scan# 772

Delta R.T. -0.000 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

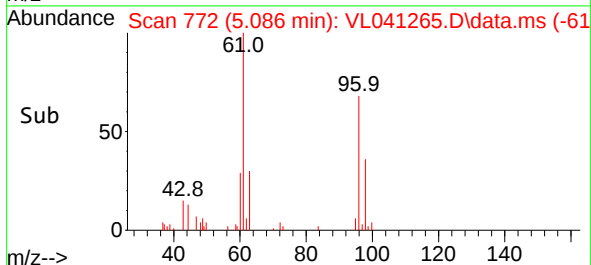
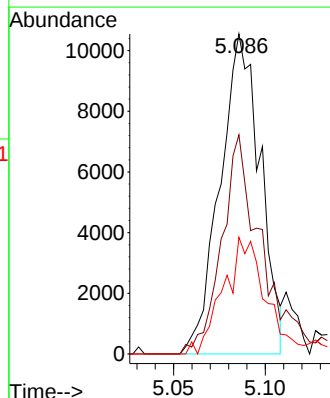
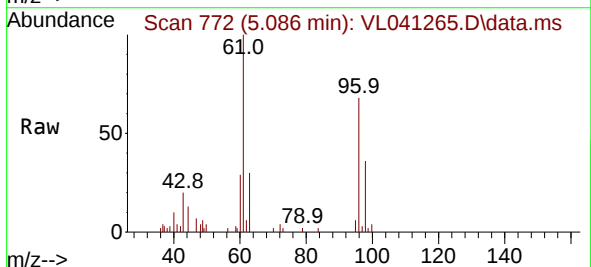
Tgt Ion: 61 Resp: 16124

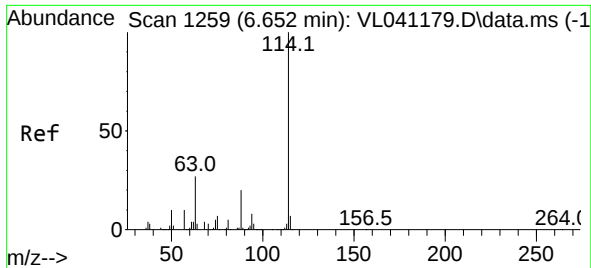
Ion Ratio Lower Upper

61 100

96 68.5 49.8 74.6

98 38.2 30.0 45.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 281419

Ion Ratio Lower Upper

114 100

63 25.6 21.8 32.6

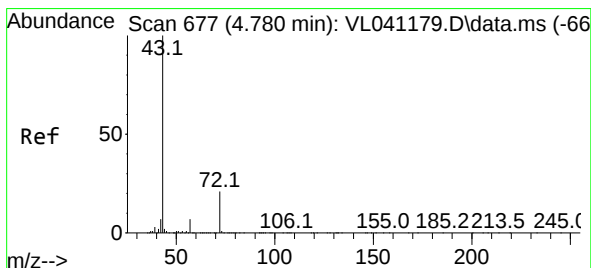
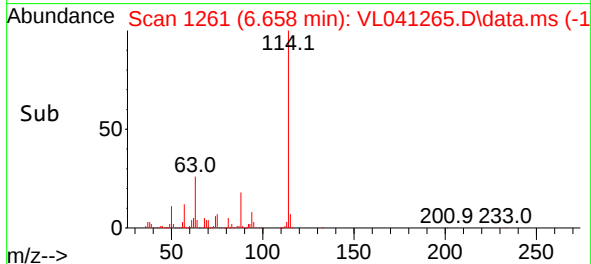
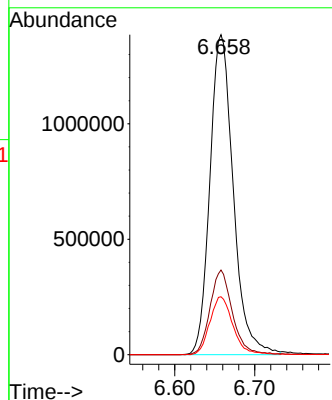
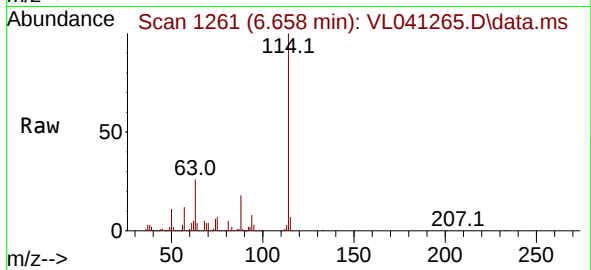
88 18.0 15.2 22.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#34

2-Butanone

Concen: 5.970 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.003 min

Lab File: VL041265.D

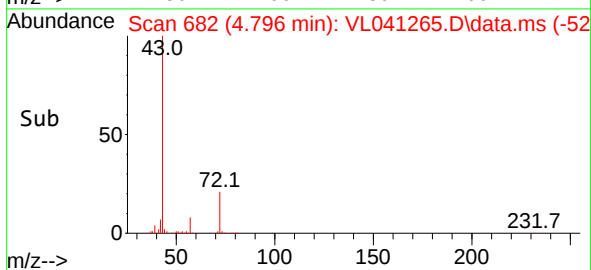
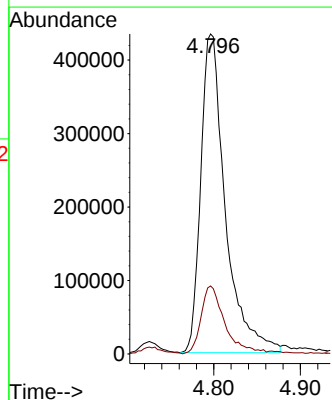
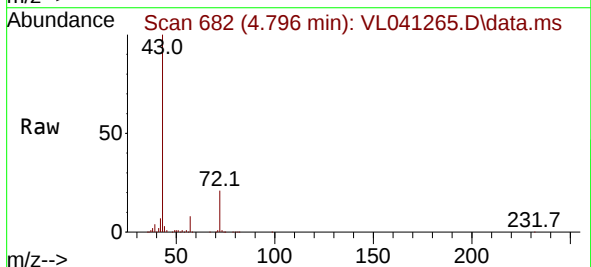
Acq: 21 May 2024 14:53

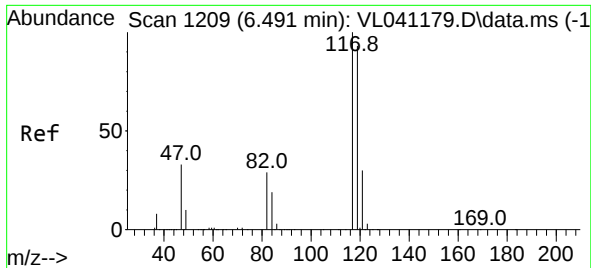
Tgt Ion: 43 Resp: 855134

Ion Ratio Lower Upper

43 100

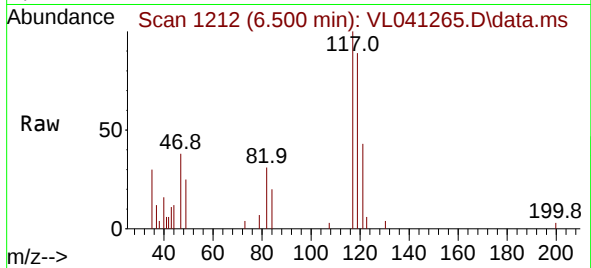
72 21.9 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 6.500 min Scan# 1184
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

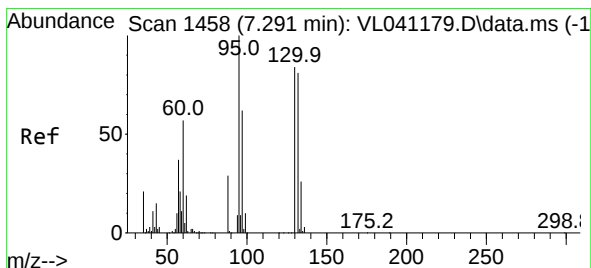
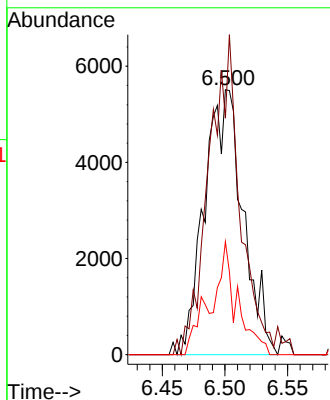
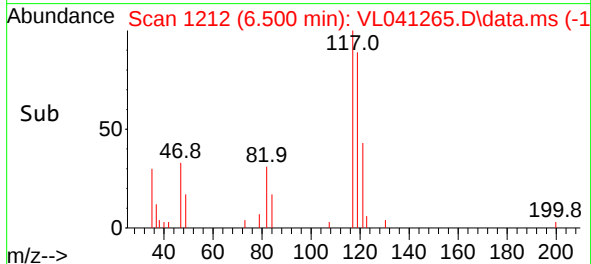
Instrument :
MSVOA_L
ClientSampleId :
SV2



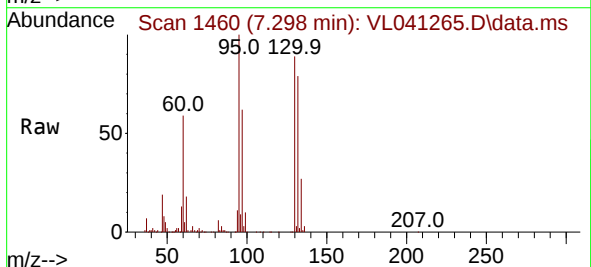
Tgt Ion:117 Resp: 1184
Ion Ratio Lower Upper
117 100
119 89.3 74.3 111.5
121 42.6 23.8 35.8

Manual Integrations
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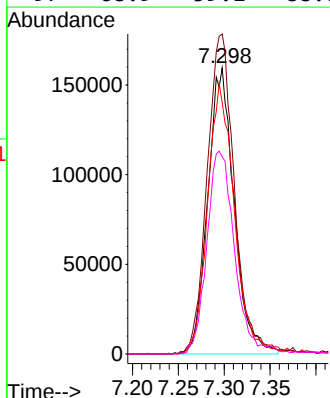
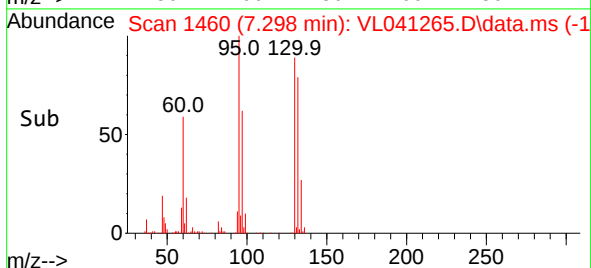
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

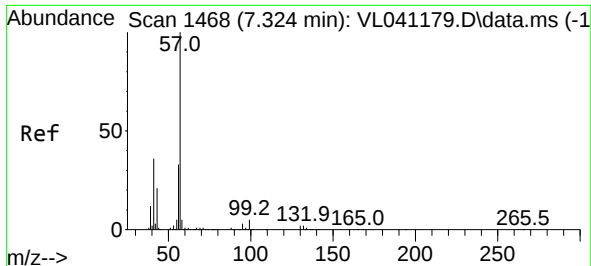


#38
Trichloroethene
Concen: 3.634 ppbv
RT: 7.298 min Scan# 1460
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53



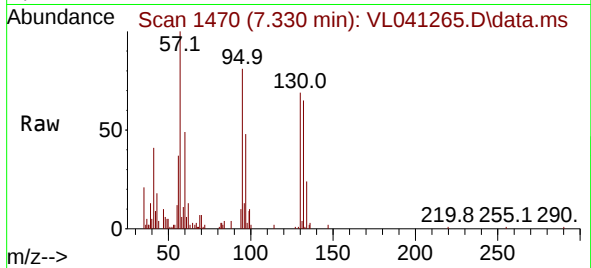
Tgt Ion:130 Resp: 319830
Ion Ratio Lower Upper
130 100
95 111.6 95.0 142.6
132 87.9 77.0 115.4
97 68.9 59.1 88.7





#44
2,2,4-Trimethylpentane
Concen: 0.109 ppbv m
RT: 7.330 min Scan# 1468
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

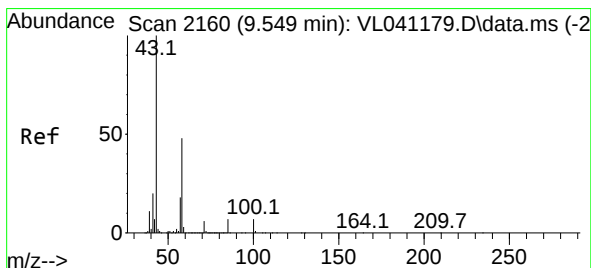
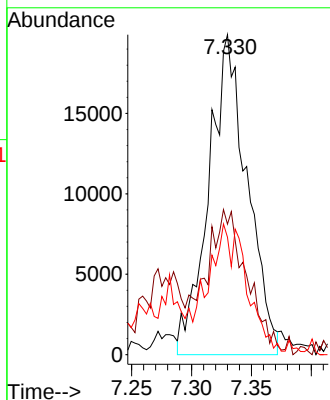
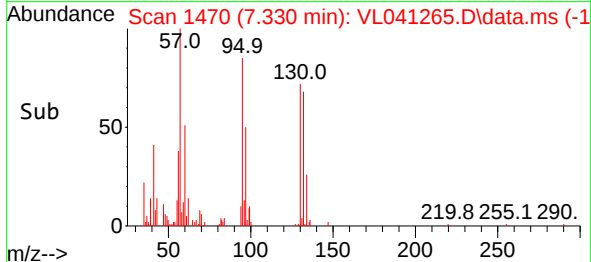
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 44469
Ion Ratio Lower Upper
57 100
41 48.4 29.5 44.3
56 68.7 25.3 37.9

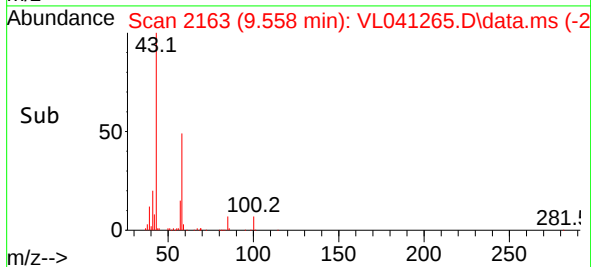
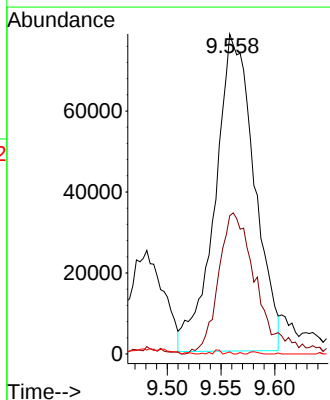
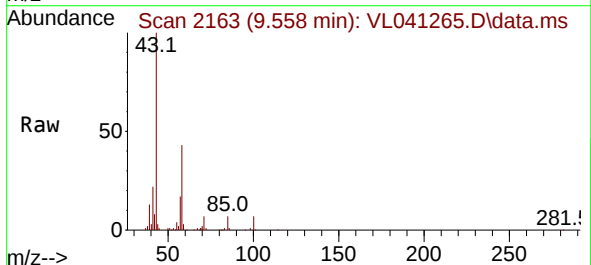
Manual Integrations
APPROVED

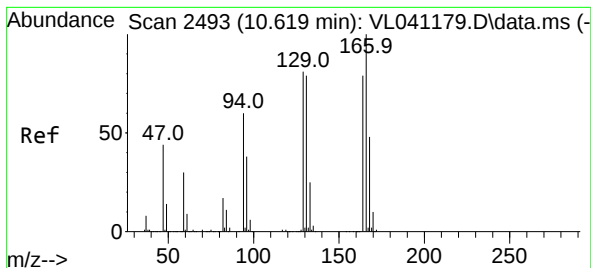
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#51
2-Hexanone
Concen: 1.040 ppbv
RT: 9.558 min Scan# 2163
Delta R.T. 0.010 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

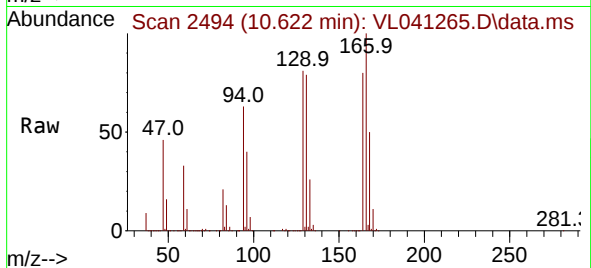
Tgt Ion: 43 Resp: 198384
Ion Ratio Lower Upper
43 100
58 44.2 38.4 57.6
98 0.5 0.0 0.0





#52
Tetrachloroethene
Concen: 46.186 ppbv
RT: 10.622 min Scan# 2494
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

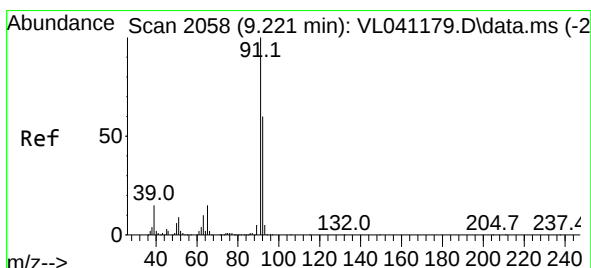
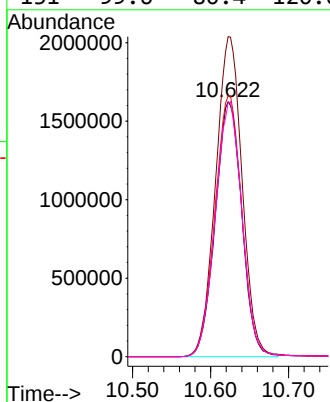
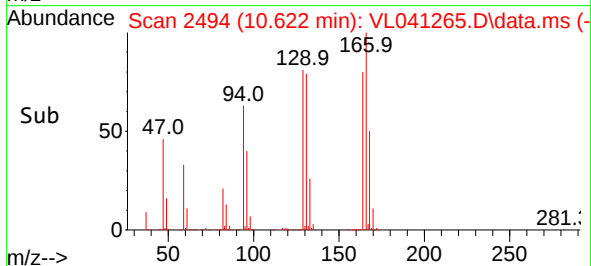
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 383369
Ion Ratio Lower Upper
164 100
166 125.6 101.1 151.7
129 102.3 81.7 122.5
131 99.6 80.4 120.6

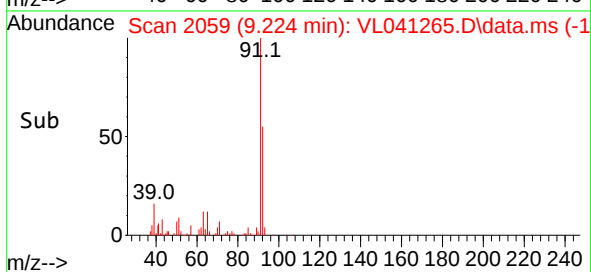
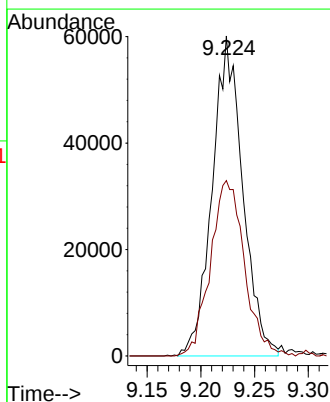
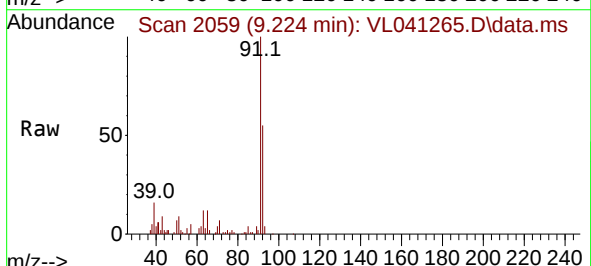
Manual Integrations
APPROVED

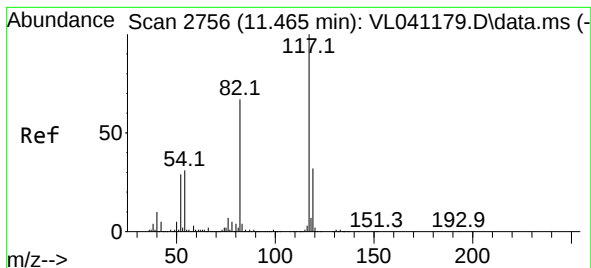
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#53
Toluene
Concen: 0.433 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

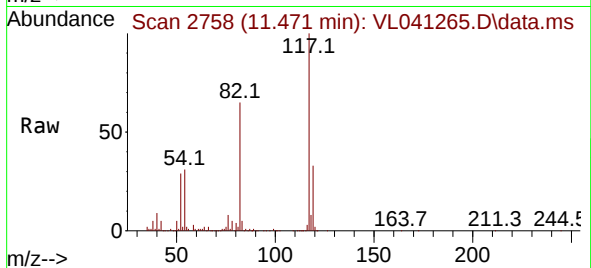
Tgt Ion: 91 Resp: 118524
Ion Ratio Lower Upper
91 100
92 61.1 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

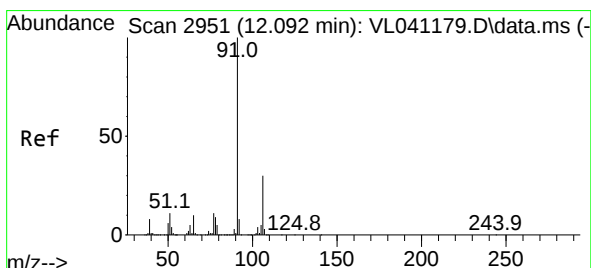
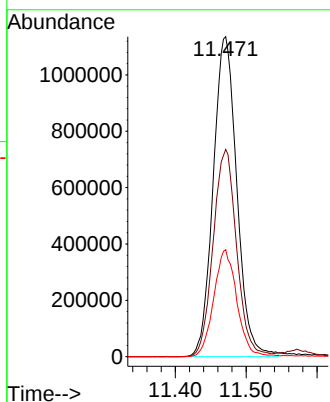
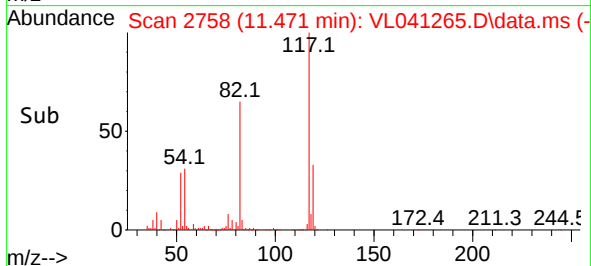
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:117 Resp: 263384
Ion Ratio Lower Upper
117 100
82 64.2 53.6 80.4
119 33.2 27.2 40.8

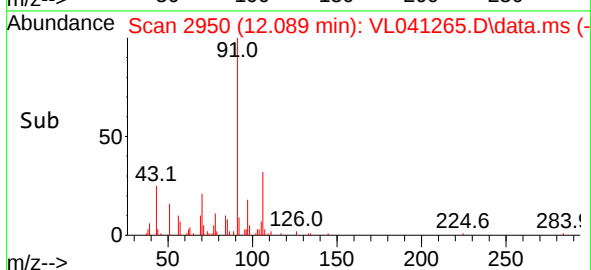
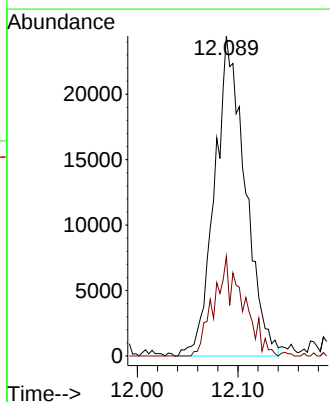
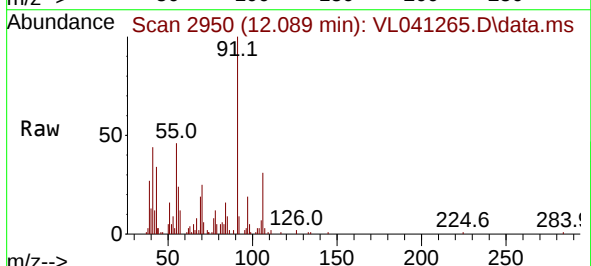
Manual Integrations
APPROVED

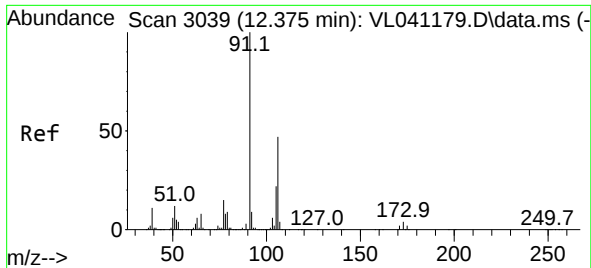
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#58
Ethyl Benzene
Concen: 0.143 ppbv
RT: 12.089 min Scan# 2950
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 91 Resp: 51527
Ion Ratio Lower Upper
91 100
106 31.2 24.3 36.5





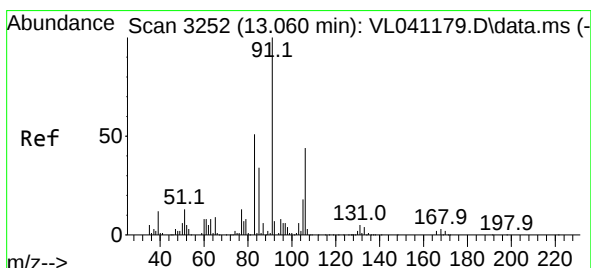
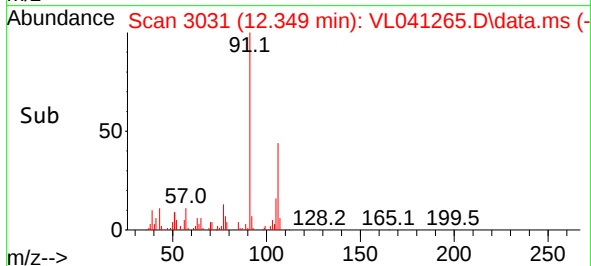
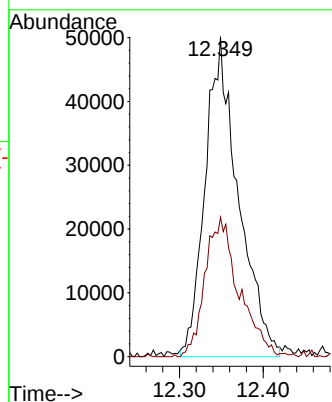
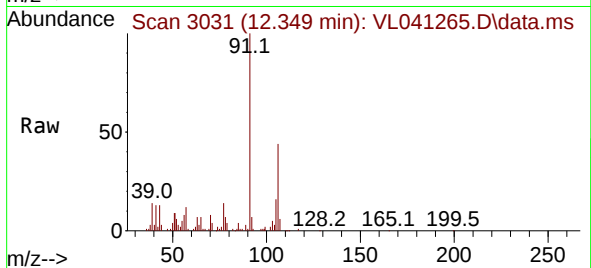
#59
m/p-Xylene
Concen: 0.455 ppbv m
RT: 12.349 min Scan# 3031
Delta R.T. -0.016 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 138217
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5

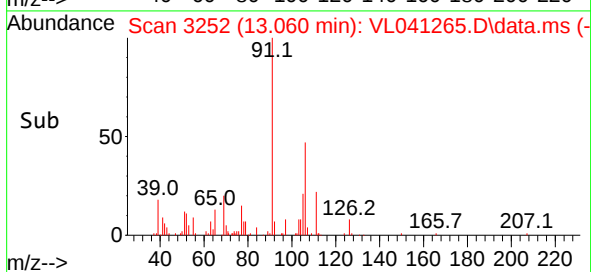
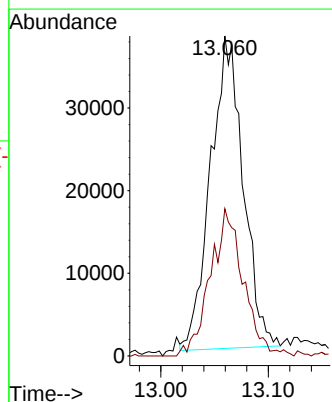
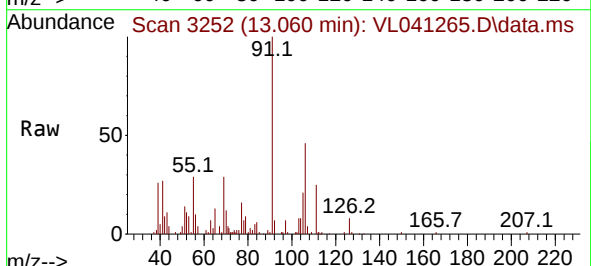
Manual Integrations
APPROVED

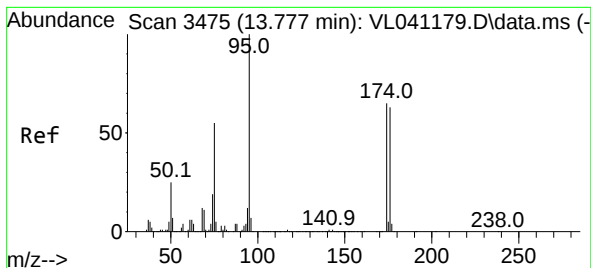
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#60
o-Xylene
Concen: 0.280 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion: 91 Resp: 79785
Ion Ratio Lower Upper
91 100
106 47.8 22.4 67.3





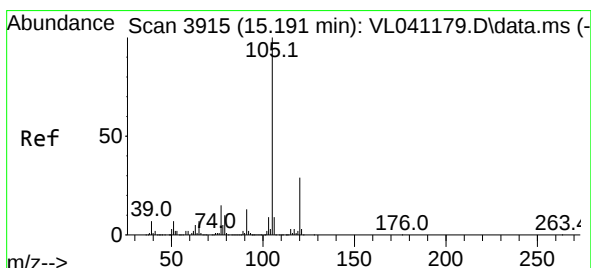
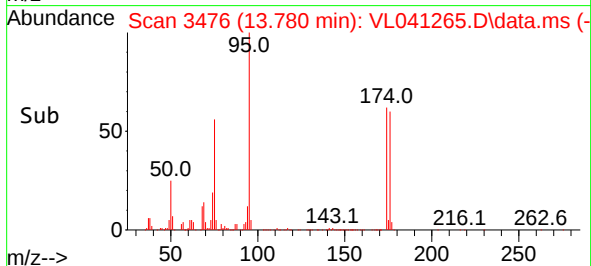
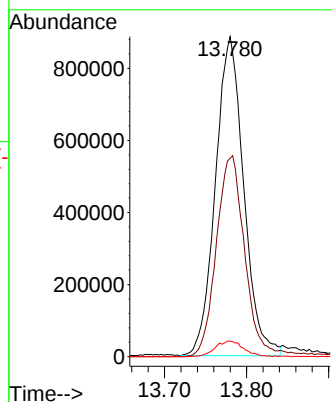
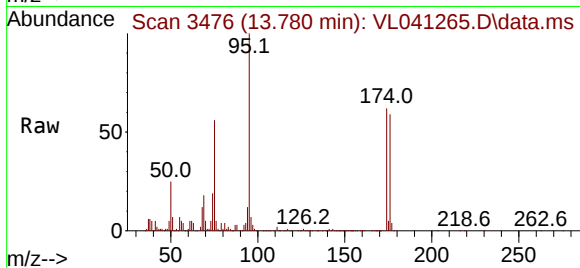
#68
1-Bromo-4-Fluorobenzene
Concen: 10.685 ppbv
RT: 13.780 min Scan# 3475
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 2124638
Ion Ratio Lower Upper
95 100
174 64.7 53.6 80.4
175 5.0 4.2 6.4

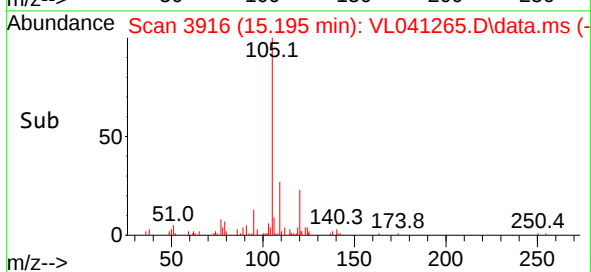
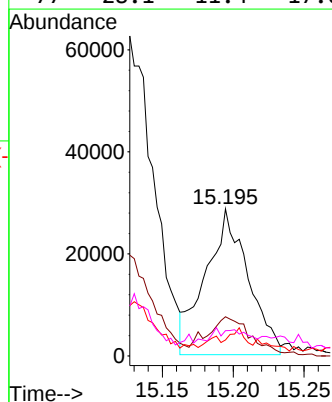
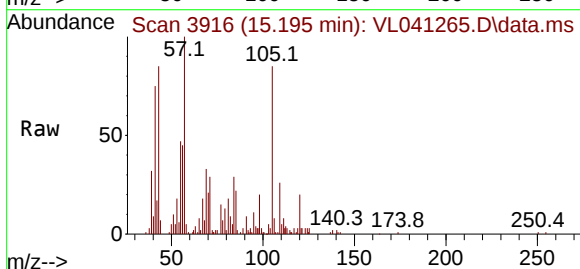
Manual Integrations
APPROVED

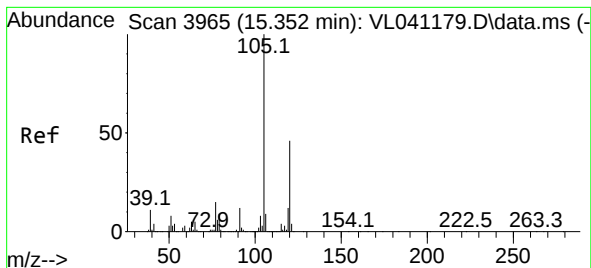
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#72
4-Ethyltoluene
Concen: 0.185 ppbv
RT: 15.195 min Scan# 3916
Delta R.T. 0.006 min
Lab File: VL041265.D
Acq: 21 May 2024 14:53

Tgt Ion:105 Resp: 59573
Ion Ratio Lower Upper
105 100
120 28.6 24.7 37.1
91 18.2 10.3 15.5#
77 28.1 11.4 17.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.248 ppbv

RT: 15.358 min Scan# 3965

Delta R.T. 0.013 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 72379

Ion Ratio Lower Upper

105 100

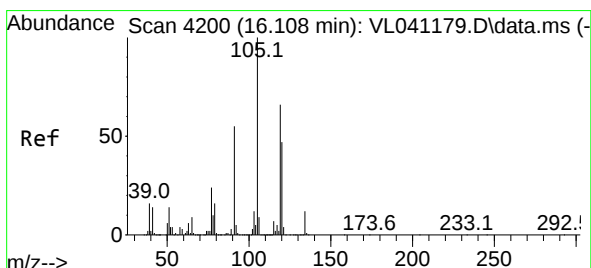
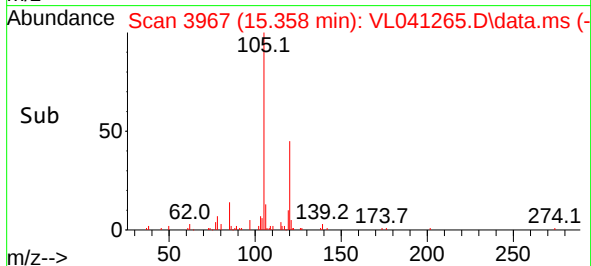
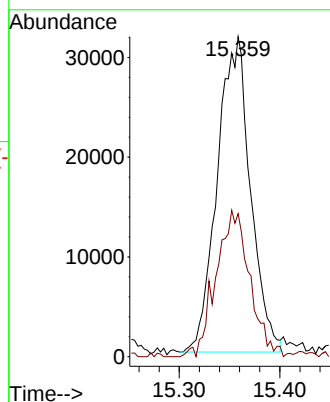
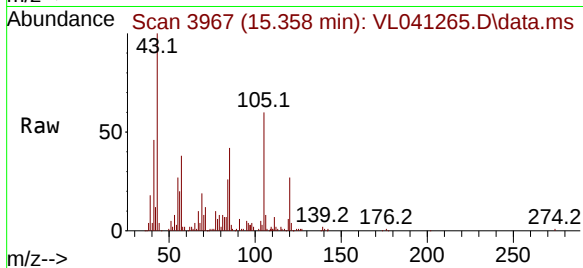
120 45.4 37.0 55.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.789 ppbv

RT: 16.104 min Scan# 4199

Delta R.T. -0.000 min

Lab File: VL041265.D

Acq: 21 May 2024 14:53

Tgt Ion:105 Resp: 251413

Ion Ratio Lower Upper

105 100

120 40.4 37.8 56.6

91 11.1 44.3 66.5#

77 13.0 19.0 28.4#

