

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041270.D
 Acq On : 21 May 2024 18:15
 Operator : SY/MD
 Sample : P2533-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

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

Quant Time: May 22 05:46:43 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	827953	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2033167	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2096530	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	1598161	10.097	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.751	85	33015	0.295	ppbv	96
3) Chlorodifluoromethane	2.694	51	414961	3.300	ppbv	99
4) Chloromethane	2.832	50	35056	0.710	ppbv	92
9) Propene	2.723	41	66696m	1.355	ppbv	
10) Heptane	7.581	43	14640m	0.123	ppbv	
11) Trichlorofluoromethane	3.578	101	28335	0.249	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.083	101	6755m	0.080	ppbv	
13) Ethanol	3.259	45	6683882	605.886	ppbv	100
15) Acetone	3.478	43	1567397	16.041	ppbv	99
19) Isopropyl Alcohol	3.597	45	5675064	88.509	ppbv #	43
20) Methylene Chloride	3.948	84	152088	4.476	ppbv	98
25) Ethyl Acetate	5.211	43	693039	3.553	ppbv	96
26) Hexane	5.221	57	187158	2.150	ppbv #	44
29) Chloroform	5.282	83	25287m	0.211	ppbv	
34) 2-Butanone	4.800	43	66759	0.645	ppbv	97
35) Carbon Tetrachloride	6.497	117	10365m	0.091	ppbv	
36) Benzene	6.378	78	46789	0.274	ppbv	95
38) Trichloroethene	7.301	130	3058m	0.048	ppbv	
44) 2,2,4-Trimethylpentane	7.330	57	61805m	0.210	ppbv	
52) Tetrachloroethene	10.616	164	162058	2.702	ppbv	92
53) Toluene	9.221	91	160540	0.811	ppbv	95
58) Ethyl Benzene	12.092	91	32928m	0.115	ppbv	
59) m/p-Xylene	12.343	91	91742m	0.380	ppbv	
60) o-Xylene	13.060	91	34619m	0.153	ppbv	
61) Styrene	12.896	104	45409m	0.380	ppbv	
69) p-Isopropyltoluene	16.995	119	75824	0.215	ppbv	96
74) 1,2,4-Trimethylbenzene	16.111	105	40963m	0.162	ppbv	
76) 1,4-Dichlorobenzene	16.468	146	37120m	0.266	ppbv	

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

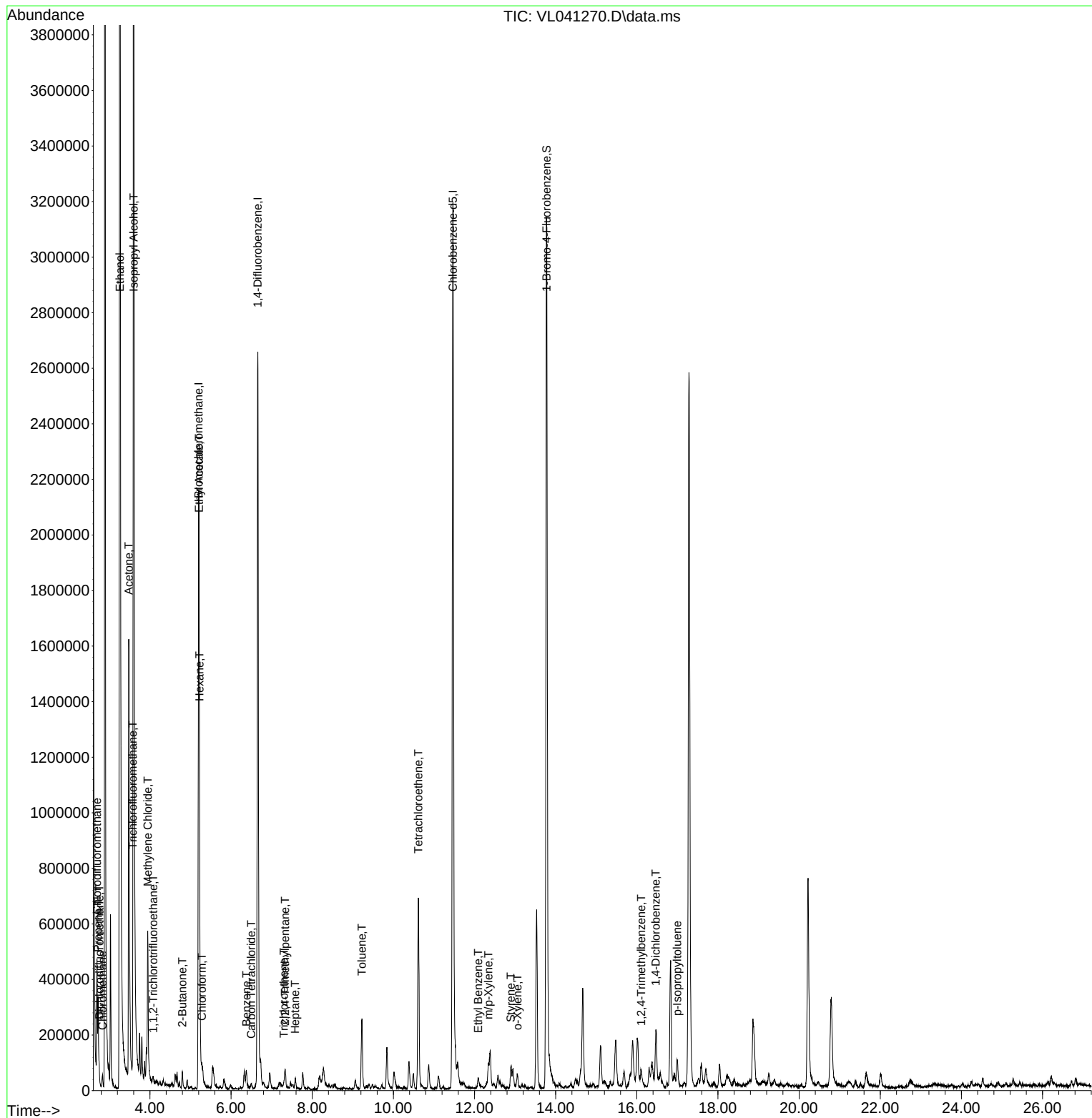
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
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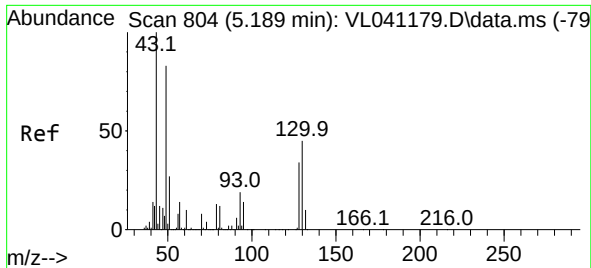
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: May 22 05:46:43 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

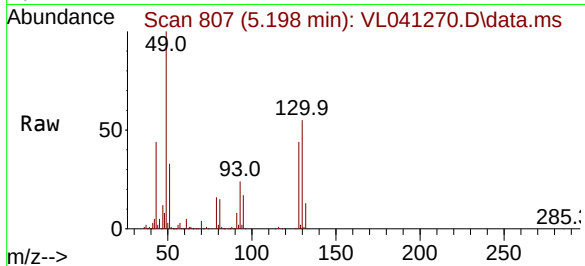
Reviewed By : Semsettin Yesilyurt 05/22/2024
Supervised By : Mahesh Dadoda 05/22/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

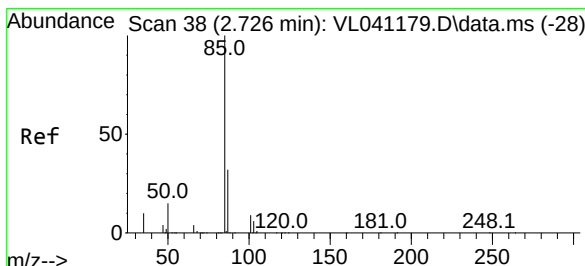
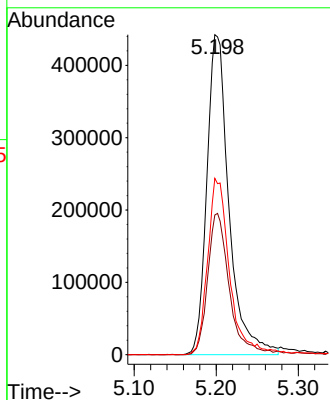
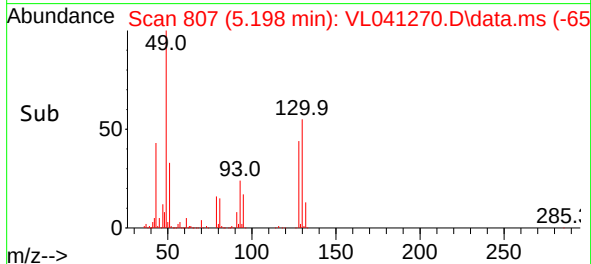
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 82795
Ion Ratio Lower Upper
49 100
128 44.1 21.5 64.5
130 55.8 27.2 81.6

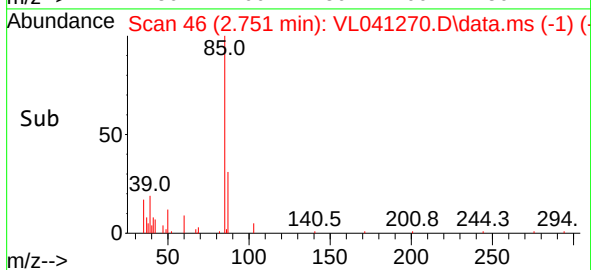
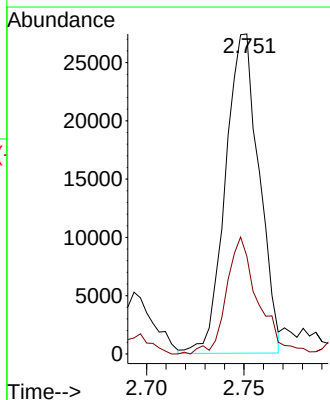
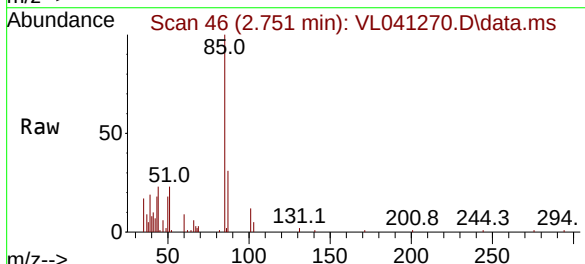
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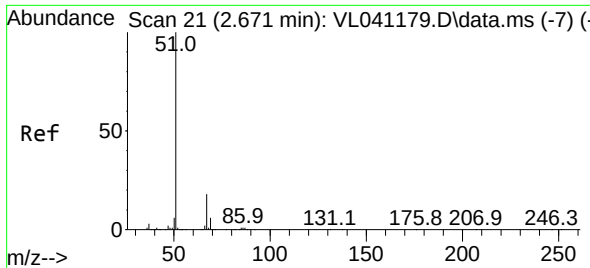
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#2
Dichlorodifluoromethane
Concen: 0.295 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

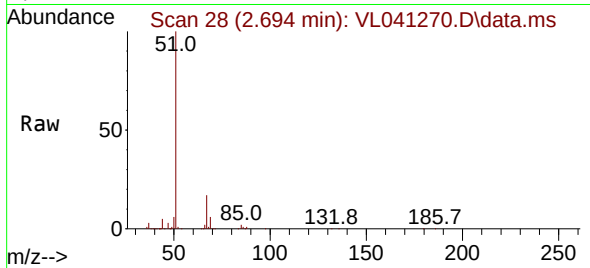
Tgt Ion: 85 Resp: 33015
Ion Ratio Lower Upper
85 100
87 29.9 25.7 38.5





#3
Chlorodifluoromethane
Concen: 3.300 ppbv
RT: 2.694 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

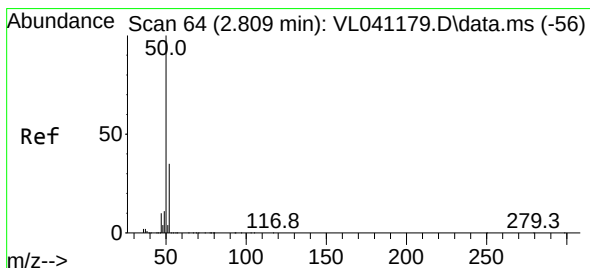
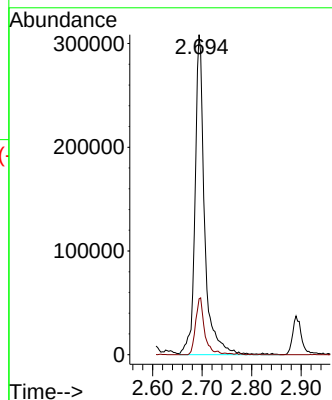
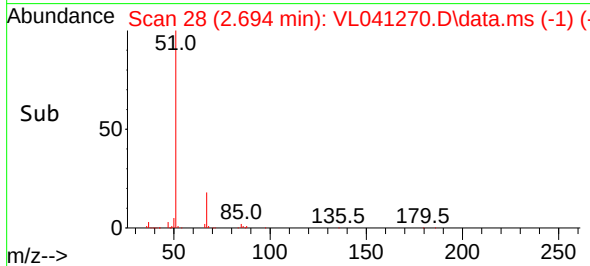
Instrument :
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Tgt Ion: 51 Resp: 41496
Ion Ratio Lower Upper
51 100
67 17.2 14.0 21.0

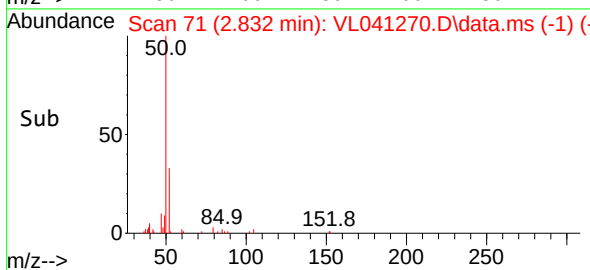
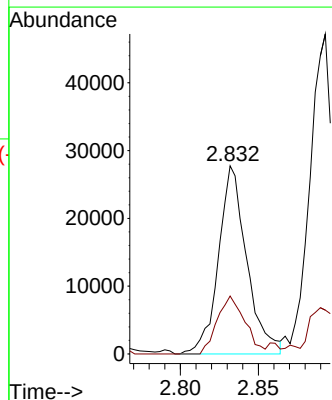
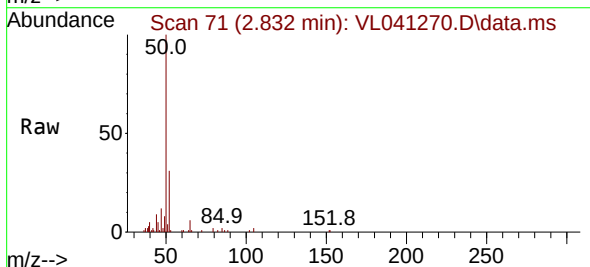
Manual Integrations
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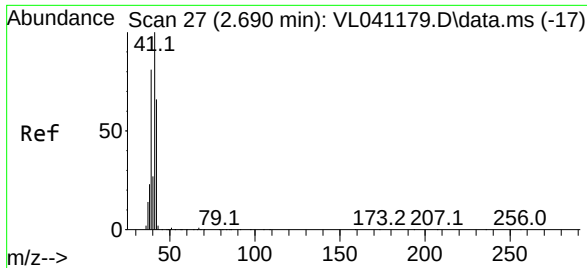
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#4
Chloromethane
Concen: 0.710 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

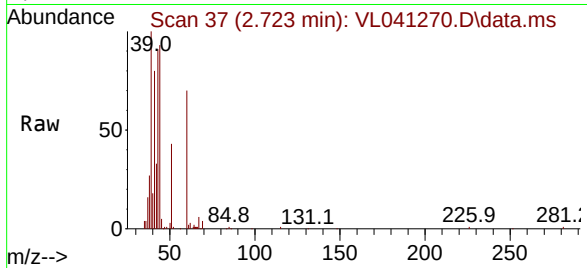
Tgt Ion: 50 Resp: 35056
Ion Ratio Lower Upper
50 100
52 30.8 28.3 42.5





#9
 Propene
 Concen: 1.355 ppbv m
 RT: 2.723 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL041270.D
 Acq: 21 May 2024 18:15

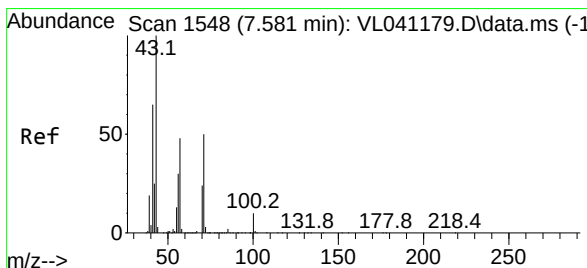
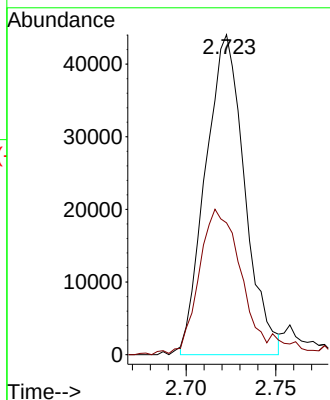
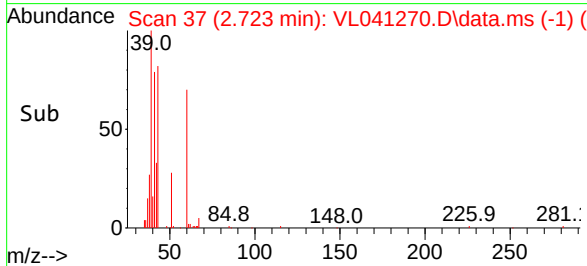
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



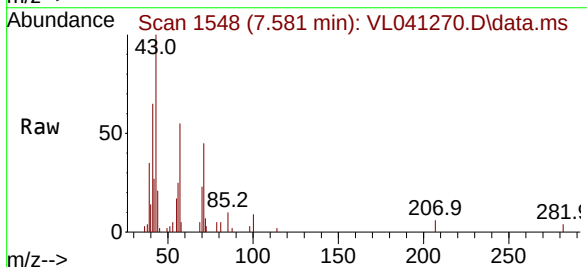
Tgt Ion: 41 Resp: 66690
 Ion Ratio Lower Upper
 41 100
 42 2224.3 55.3 82.9

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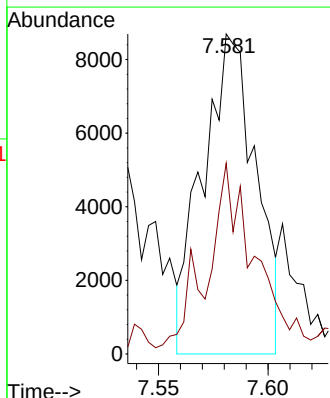
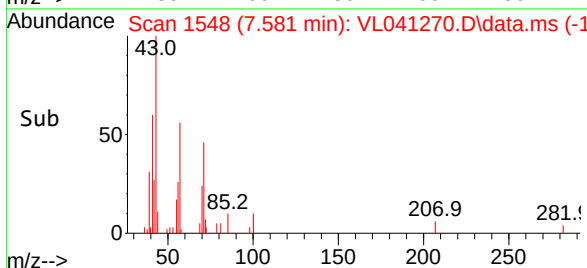
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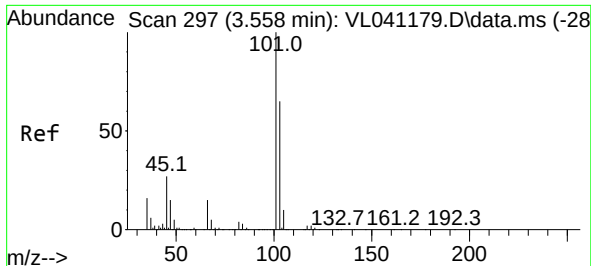


#10
 Heptane
 Concen: 0.123 ppbv m
 RT: 7.581 min Scan# 1548
 Delta R.T. -0.003 min
 Lab File: VL041270.D
 Acq: 21 May 2024 18:15



Tgt Ion: 43 Resp: 14640
 Ion Ratio Lower Upper
 43 100
 57 63.2 38.7 58.1#





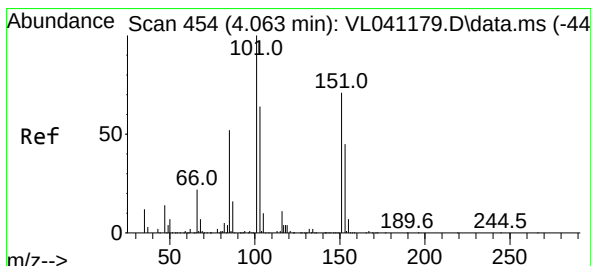
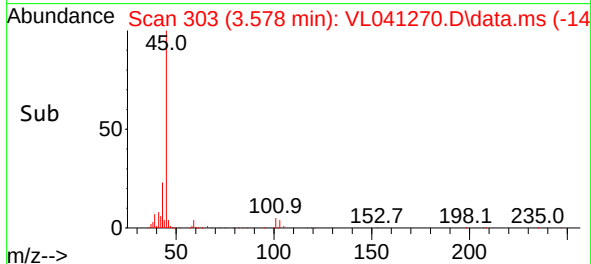
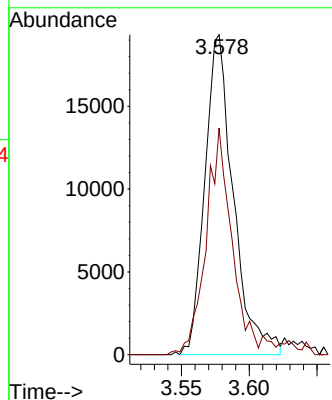
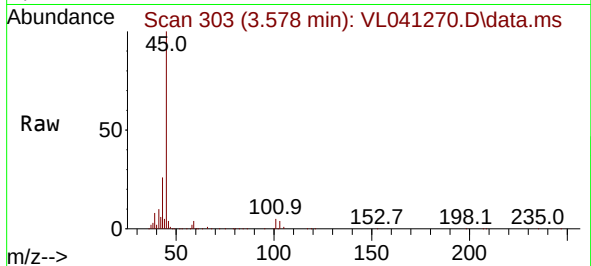
#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:101 Resp: 2833
Ion Ratio Lower Upper
101 100
103 70.0 51.6 77.4

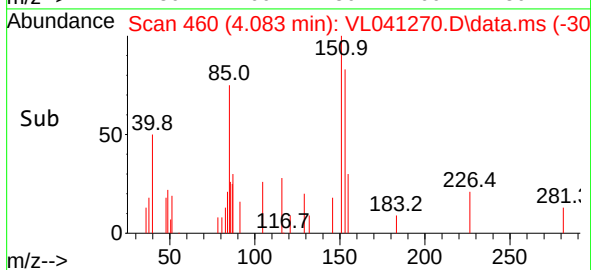
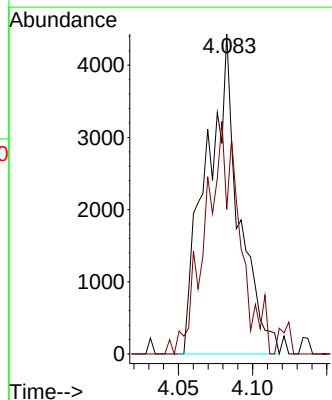
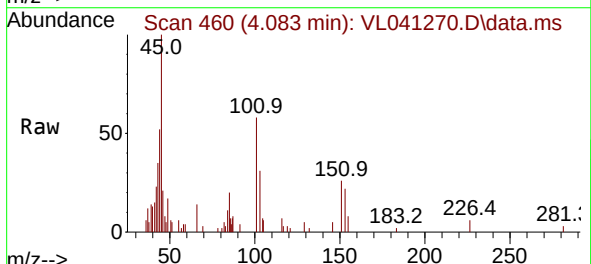
Manual Integrations
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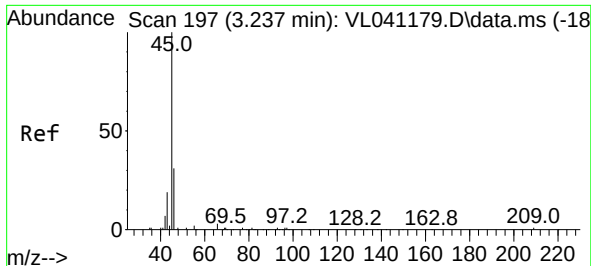
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.080 ppbv m
RT: 4.083 min Scan# 460
Delta R.T. 0.006 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

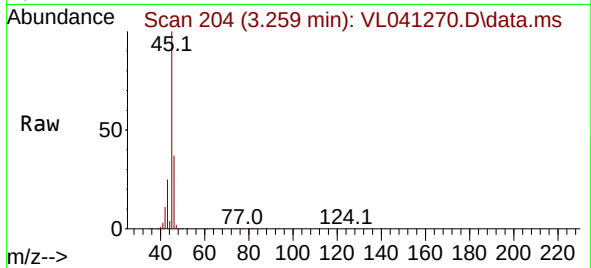
Tgt Ion:101 Resp: 6755
Ion Ratio Lower Upper
101 100
151 76.6 56.8 85.2





#13
Ethanol
Concen: 605.886 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.006 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

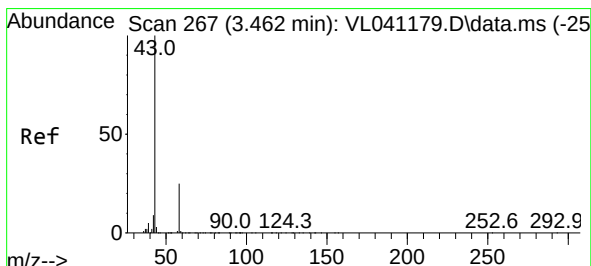
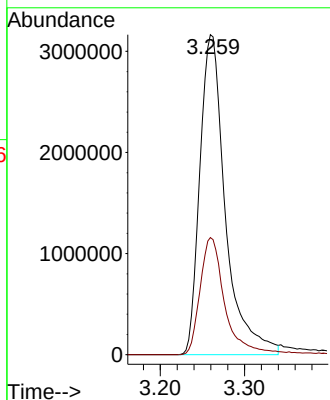
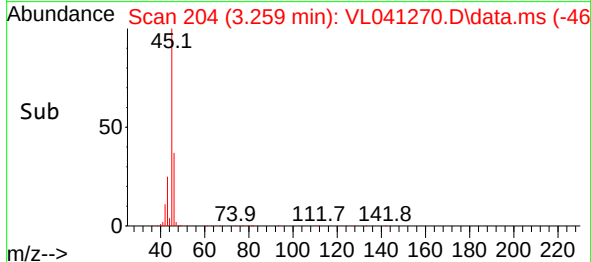
Instrument :
MSVOA_L
Client Sample Id :
IA1DUP



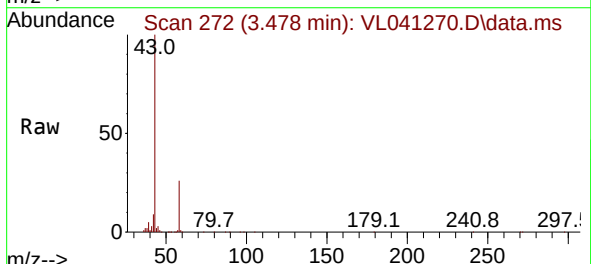
Tgt Ion: 45 Resp: 668388
Ion Ratio Lower Upper
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46 36.9 14.8 59.0

Manual Integrations
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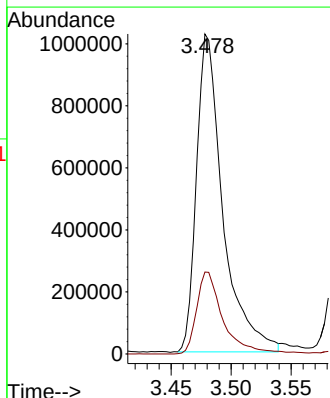
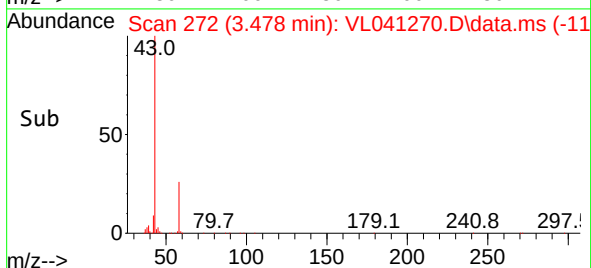
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Supervised By :Mahesh Dadoda 05/22/2024

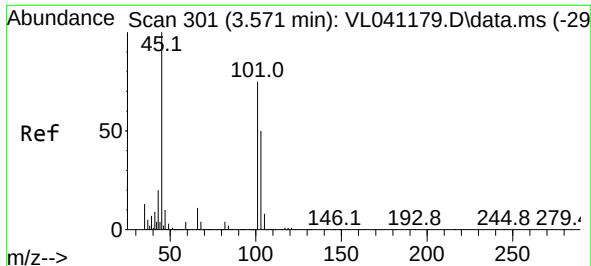


#15
Acetone
Concen: 16.041 ppbv
RT: 3.478 min Scan# 272
Delta R.T. -0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15



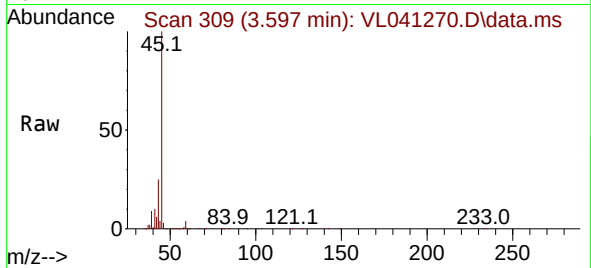
Tgt Ion: 43 Resp: 1567397
Ion Ratio Lower Upper
43 100
58 26.1 21.4 32.0





#19
Isopropyl Alcohol
Concen: 88.509 ppbv
RT: 3.597 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

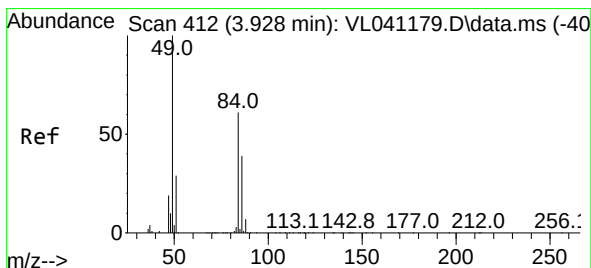
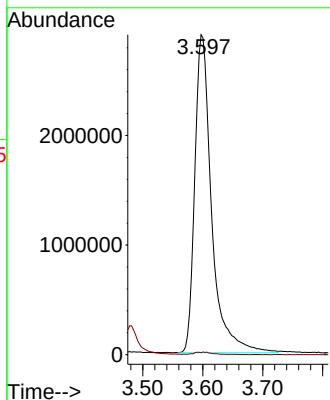
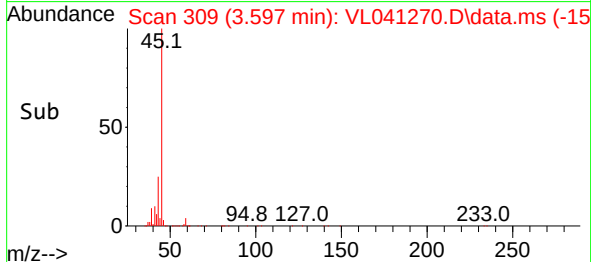
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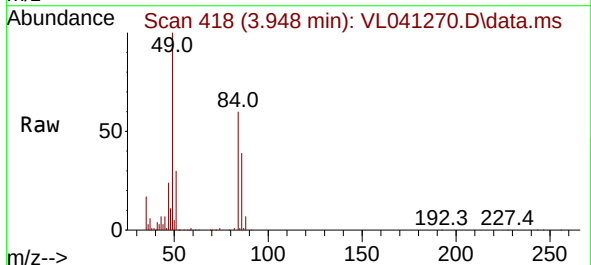
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Ion Ratio Lower Upper
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58 1.0 26.8 40.2

Manual Integrations
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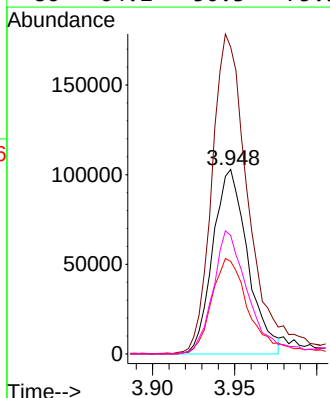
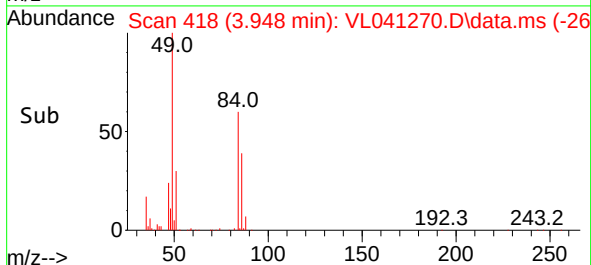
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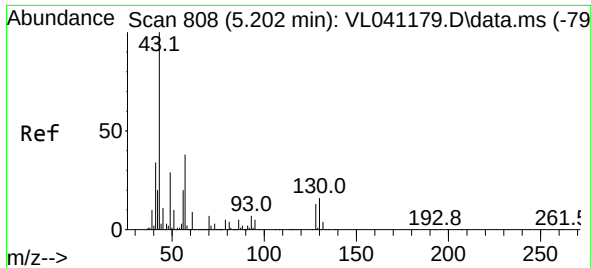


#20
Methylene Chloride
Concen: 4.476 ppbv
RT: 3.948 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15



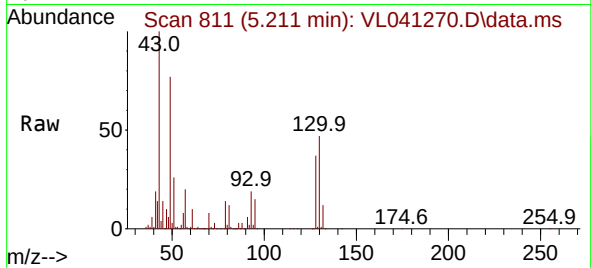
Tgt Ion: 84 Resp: 152088
Ion Ratio Lower Upper
84 100
49 165.5 130.4 195.6
51 49.7 38.0 57.0
86 64.2 50.3 75.5





#25
Ethyl Acetate
Concen: 3.553 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

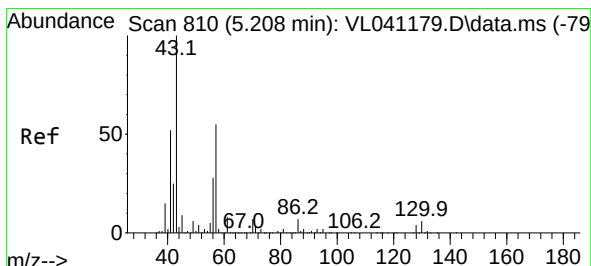
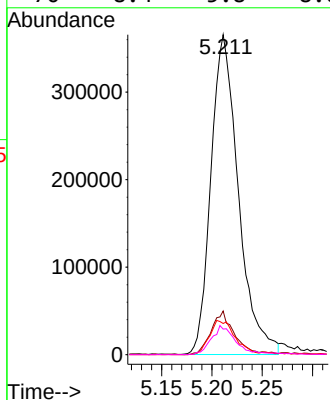
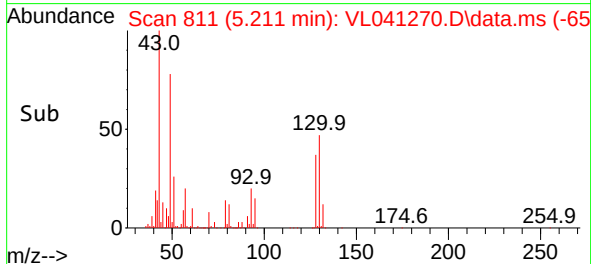
Instrument :
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Tgt Ion: 43 Resp: 693039
Ion Ratio Lower Upper
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45 12.2 8.2 12.2
61 10.8 7.7 11.5
70 8.4 5.8 8.6

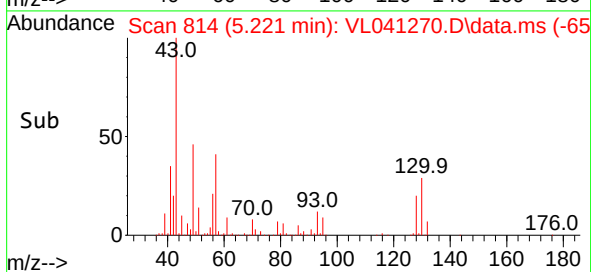
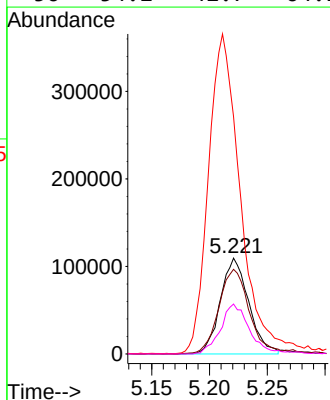
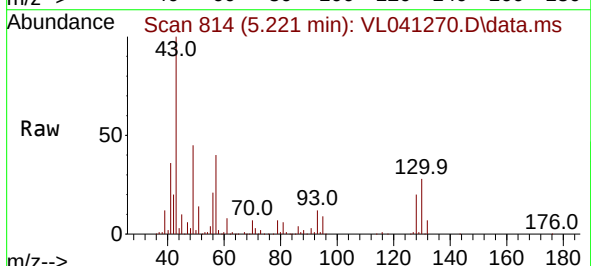
Manual Integrations
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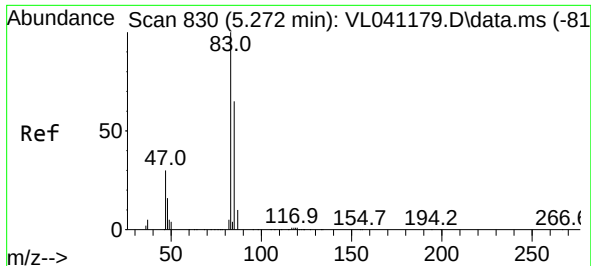
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#26
Hexane
Concen: 2.150 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

Tgt Ion: 57 Resp: 187158
Ion Ratio Lower Upper
57 100
41 98.8 75.8 113.8
43 382.5 187.0 280.4#
56 54.2 42.7 64.1





#29

Chloroform

Concen: 0.211 ppbv m

RT: 5.282 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041270.D

Acq: 21 May 2024 18:15

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 83 Resp: 2528

Ion Ratio Lower Upper

83 100

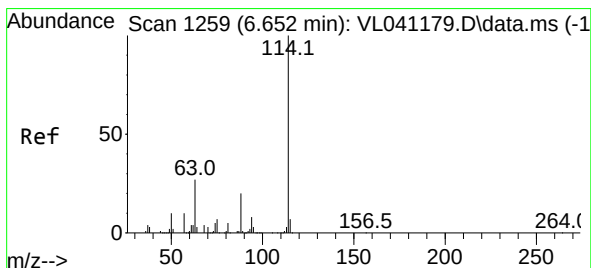
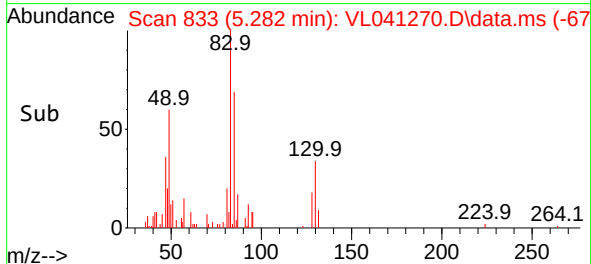
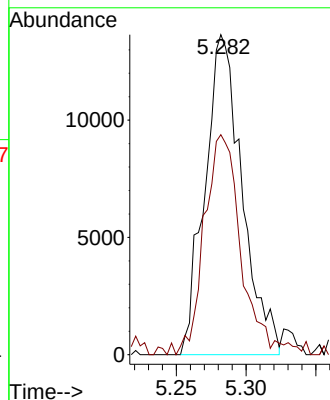
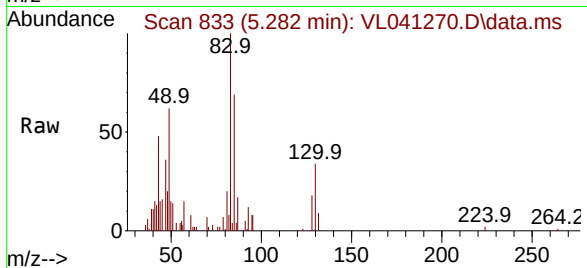
85 68.7 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2024

Supervised By :Mahesh Dadoda 05/22/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. 0.000 min

Lab File: VL041270.D

Acq: 21 May 2024 18:15

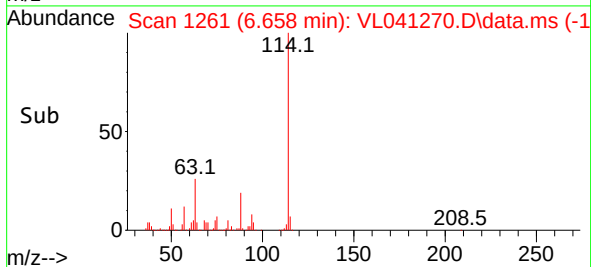
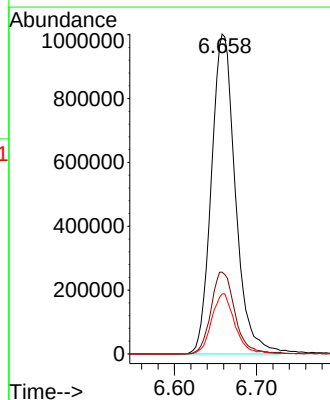
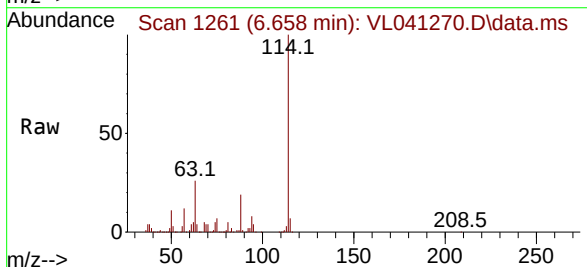
Tgt Ion:114 Resp: 2033167

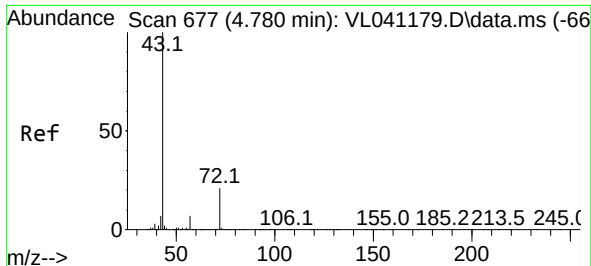
Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.6

88 18.4 15.2 22.8





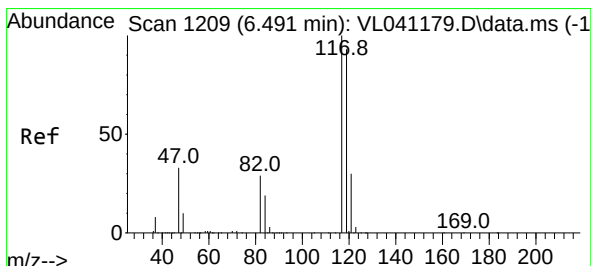
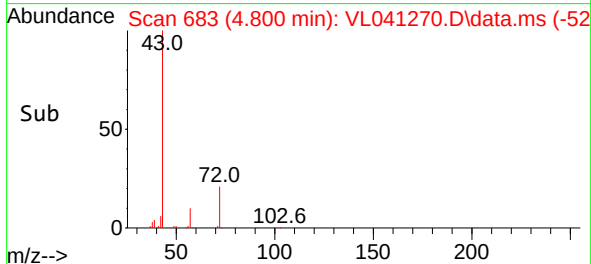
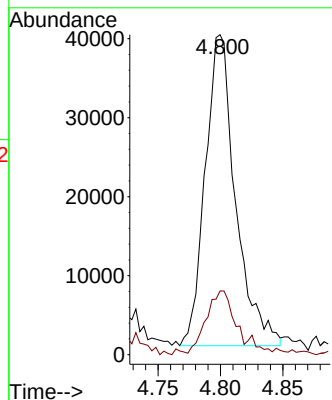
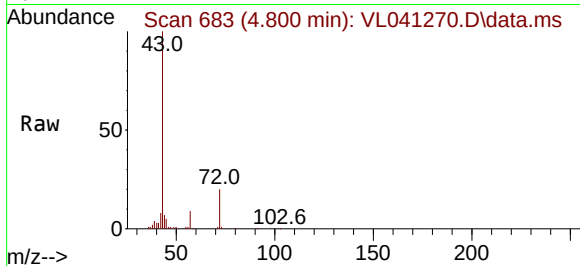
#34
2-Butanone
Concen: 0.645 ppbv
RT: 4.800 min Scan# 60
Delta R.T. 0.006 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 66759
Ion Ratio Lower Upper
43 100
72 23.0 17.3 25.9

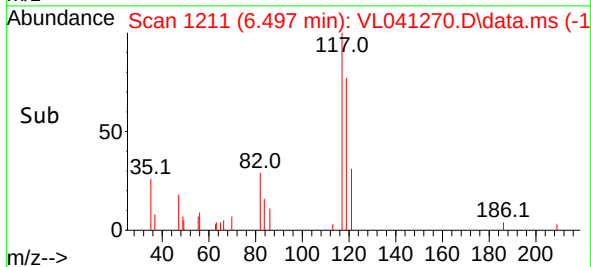
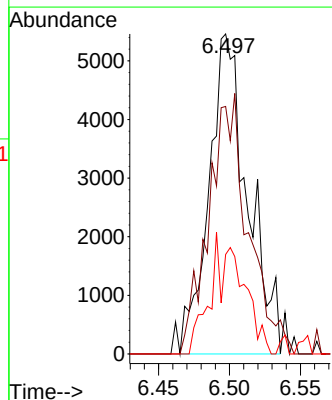
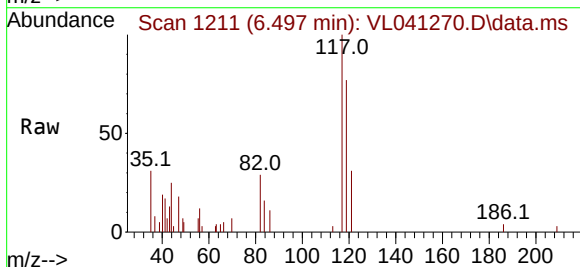
Manual Integrations
APPROVED

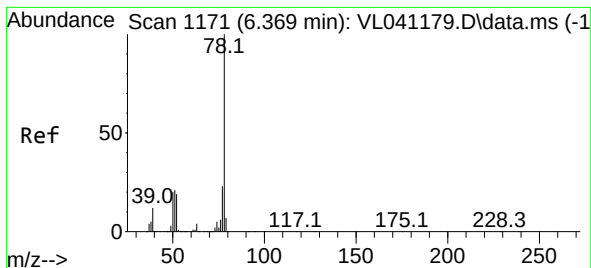
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#35
Carbon Tetrachloride
Concen: 0.091 ppbv m
RT: 6.497 min Scan# 1211
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

Tgt Ion:117 Resp: 10365
Ion Ratio Lower Upper
117 100
119 77.4 74.3 111.5
121 31.1 23.8 35.8





#36

Benzene

Concen: 0.274 ppbv

RT: 6.378 min Scan# 1174

Delta R.T. 0.003 min

Lab File: VL041270.D

Acq: 21 May 2024 18:15

Instrument :

MSVOA_L

ClientSampleId :

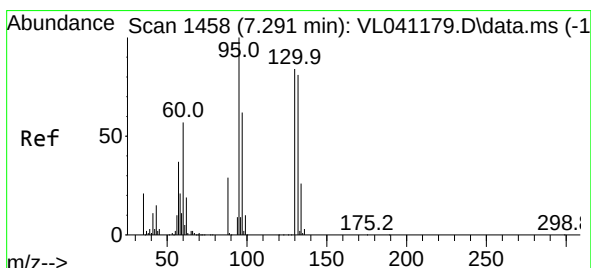
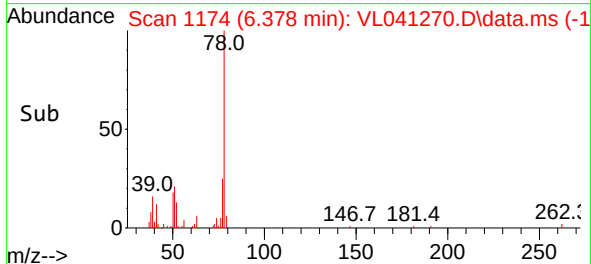
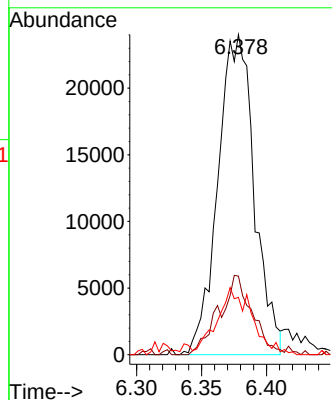
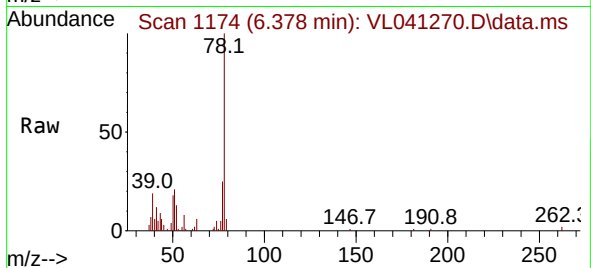
IA1DUP

Tgt Ion: 78	Resp: 4678
Ion Ratio	Lower Upper
78 100	
77 24.6	18.3 27.5
50 17.0	15.9 23.9

Manual Integrations

APPROVED

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



#38

Trichloroethene

Concen: 0.048 ppbv m

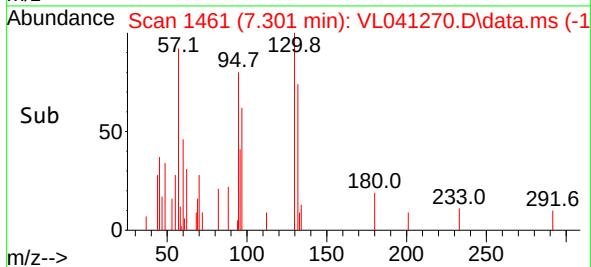
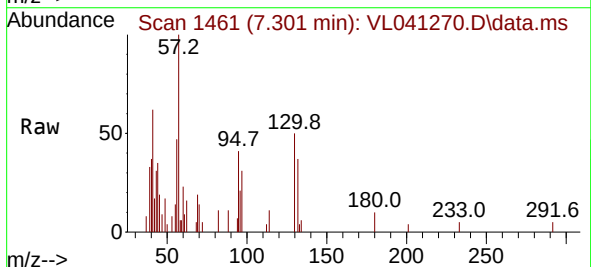
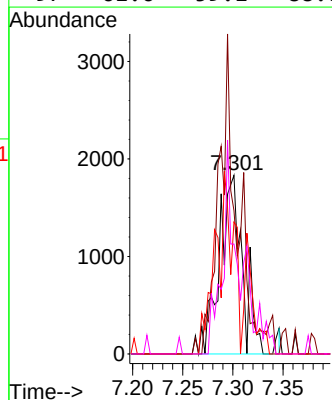
RT: 7.301 min Scan# 1461

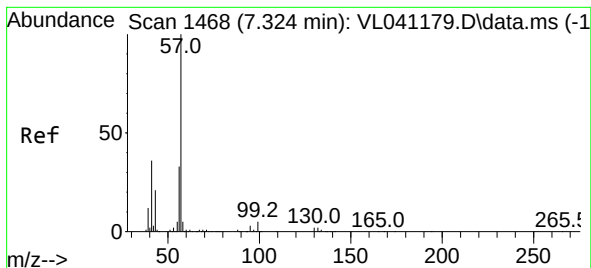
Delta R.T. 0.010 min

Lab File: VL041270.D

Acq: 21 May 2024 18:15

Tgt Ion:130	Resp: 3058
Ion Ratio	Lower Upper
130 100	
95 80.3	95.0 142.6#
132 73.9	77.0 115.4#
97 61.6	59.1 88.7





#44

2,2,4-Trimethylpentane

Concen: 0.210 ppbv m

RT: 7.330 min Scan# 1468

Delta R.T. 0.003 min

Lab File: VL041270.D

Acq: 21 May 2024 18:15

Instrument :

MSVOA_L

ClientSampleId :

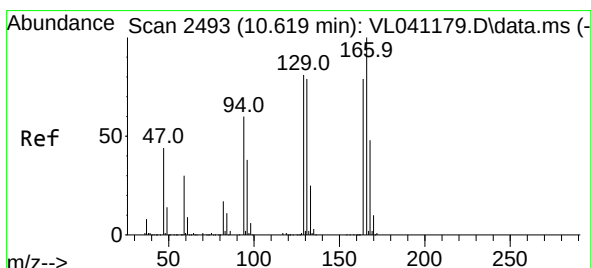
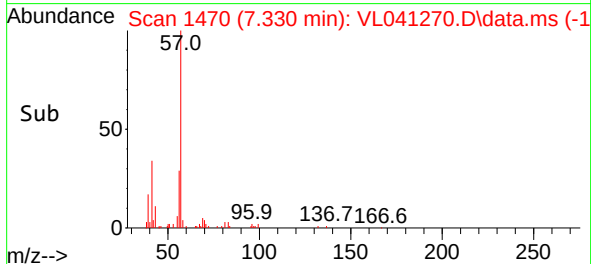
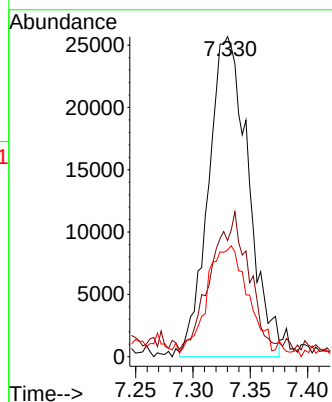
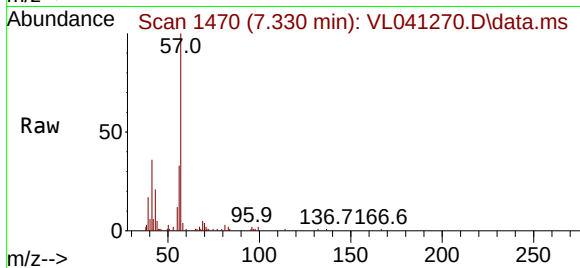
IA1DUP

Tgt Ion:	57	Resp:	6180
Ion	Ratio	Lower	Upper
57	100		
41	42.2	29.5	44.3
56	37.7	25.3	37.9

Manual Integrations

APPROVED

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



#52

Tetrachloroethene

Concen: 2.702 ppbv

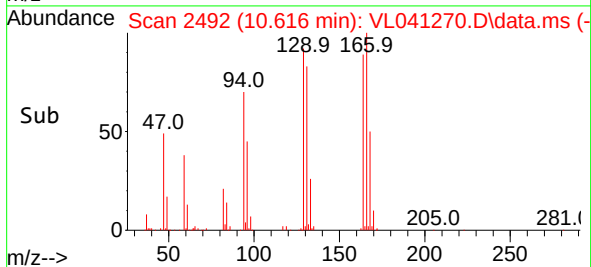
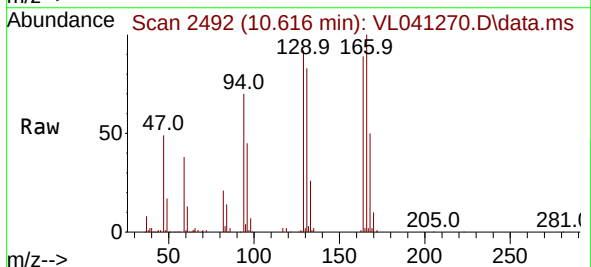
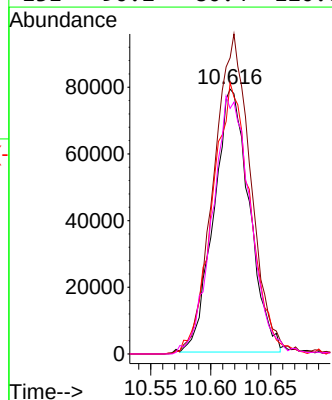
RT: 10.616 min Scan# 2492

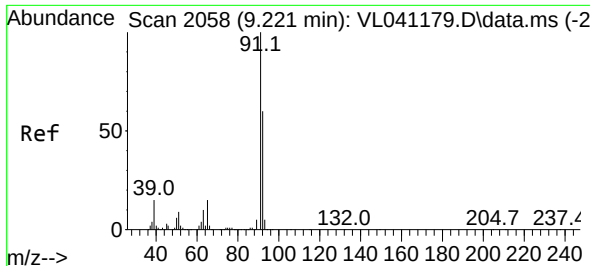
Delta R.T. 0.000 min

Lab File: VL041270.D

Acq: 21 May 2024 18:15

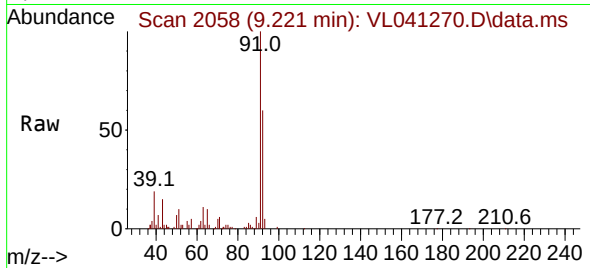
Tgt Ion:	164	Resp:	162058
Ion	Ratio	Lower	Upper
164	100		
166	111.4	101.1	151.7
129	102.1	81.7	122.5
131	90.2	80.4	120.6





#53
Toluene
Concen: 0.811 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

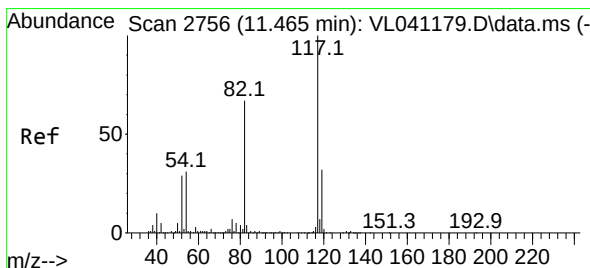
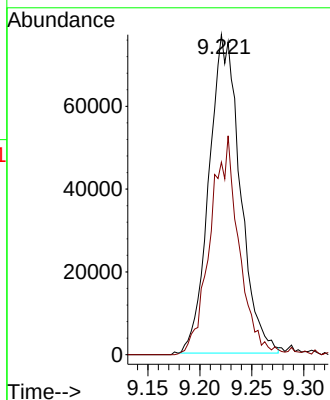
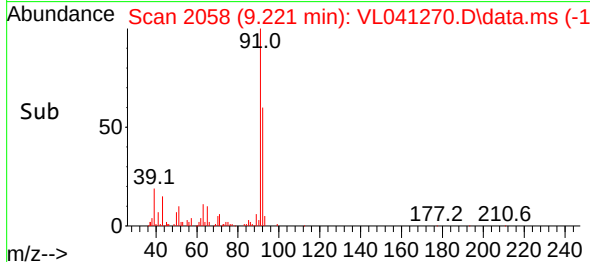
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 91 Resp: 160540
Ion Ratio Lower Upper
91 100
92 64.0 48.2 72.4

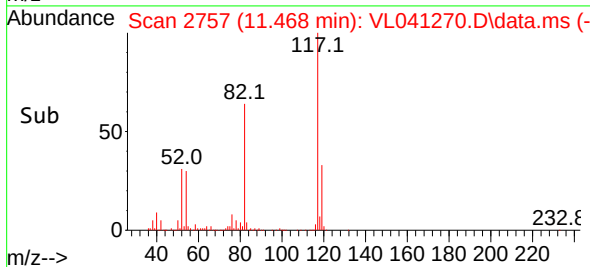
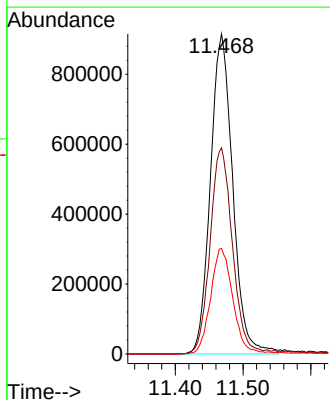
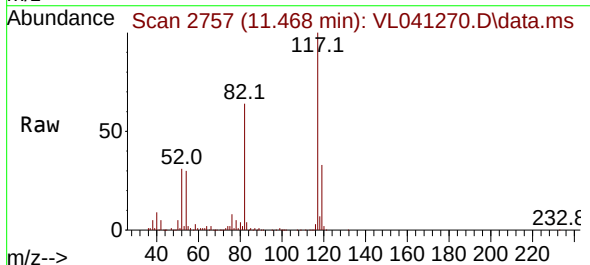
Manual Integrations
APPROVED

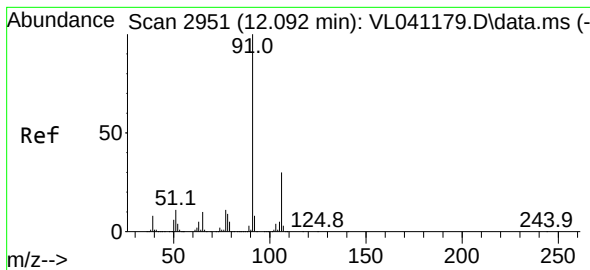
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

Tgt Ion:117 Resp: 2096530
Ion Ratio Lower Upper
117 100
82 66.6 53.6 80.4
119 33.3 27.2 40.8





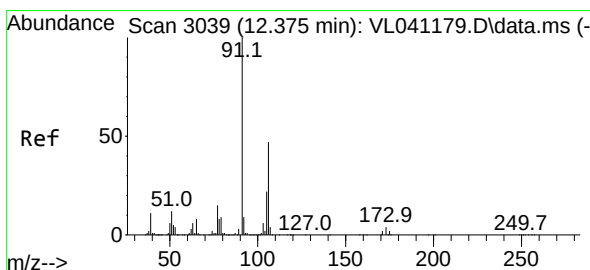
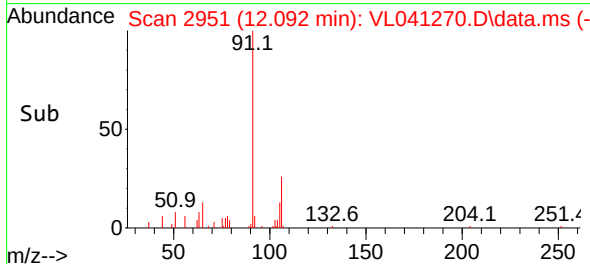
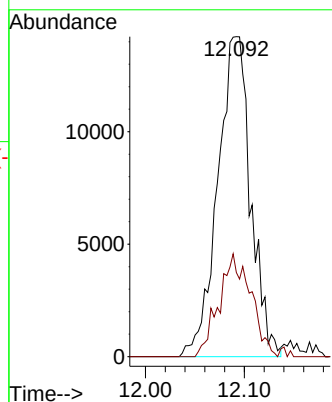
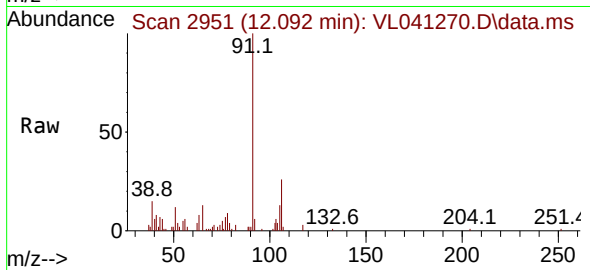
#58
Ethyl Benzene
Concen: 0.115 ppbv m
RT: 12.092 min Scan# 2951
Delta R.T. 0.006 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 32928
Ion Ratio Lower Upper
91 100
106 26.3 24.3 36.5

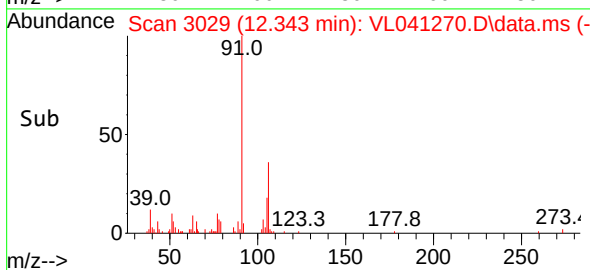
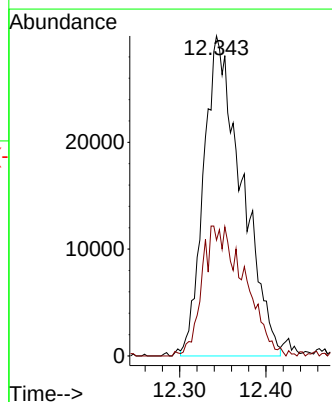
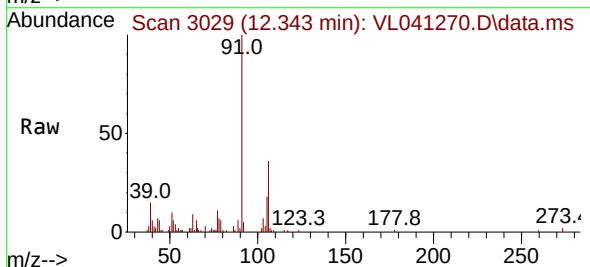
Manual Integrations
APPROVED

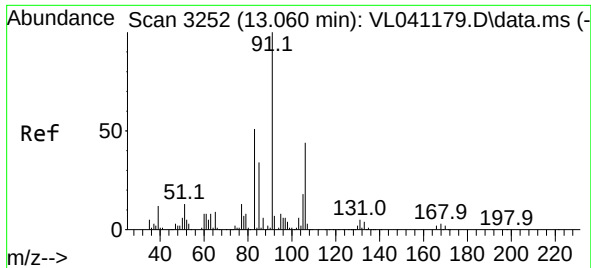
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#59
m/p-Xylene
Concen: 0.380 ppbv m
RT: 12.343 min Scan# 3029
Delta R.T. -0.022 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

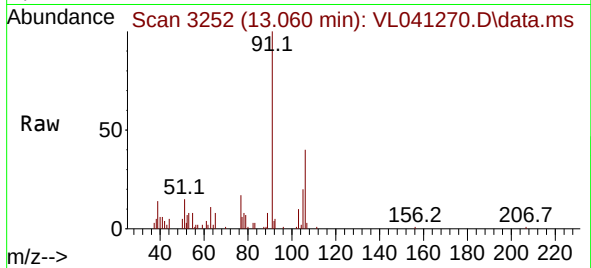
Tgt Ion: 91 Resp: 91742
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#





#60
o-Xylene
Concen: 0.153 ppbv m
RT: 13.060 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

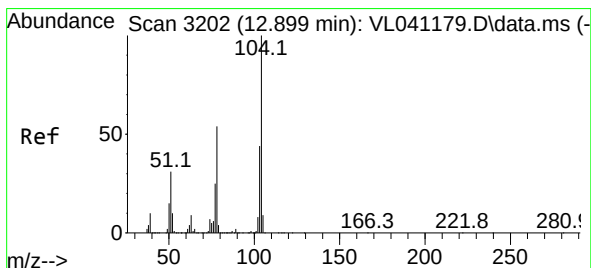
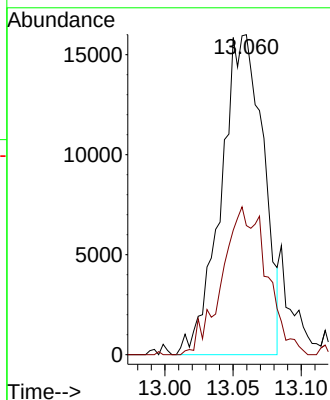
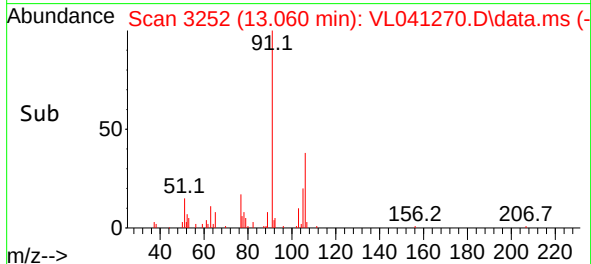
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



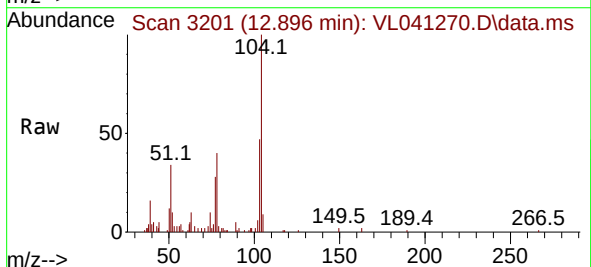
Tgt Ion: 91 Resp: 34619
Ion Ratio Lower Upper
91 100
106 49.4 22.4 67.3

Manual Integrations
APPROVED

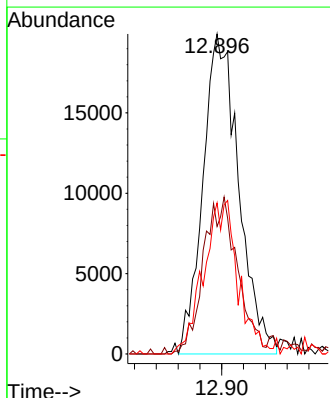
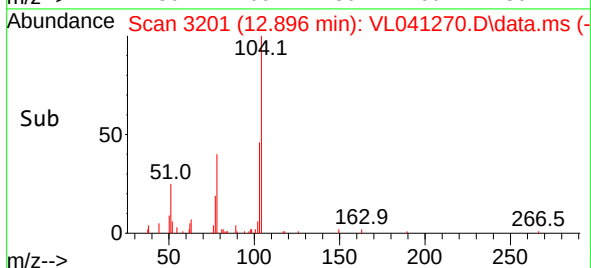
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024

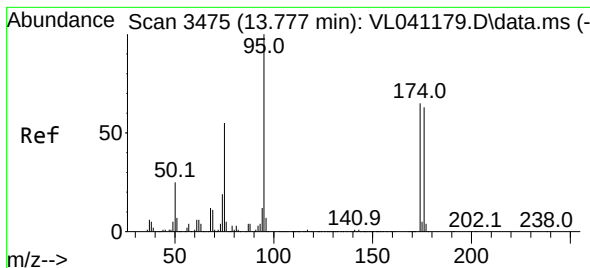


#61
Styrene
Concen: 0.380 ppbv m
RT: 12.896 min Scan# 3201
Delta R.T. 0.003 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15



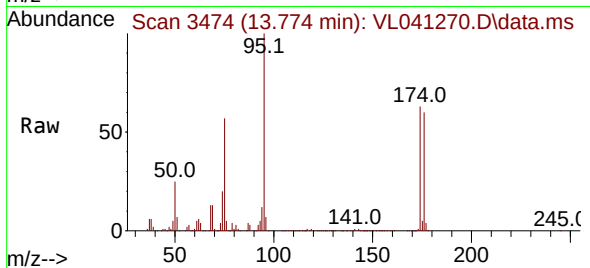
Tgt Ion:104 Resp: 45409
Ion Ratio Lower Upper
104 100
78 0.0 42.6 63.8#
103 0.0 38.4 57.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 13.774 min Scan# 3475
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

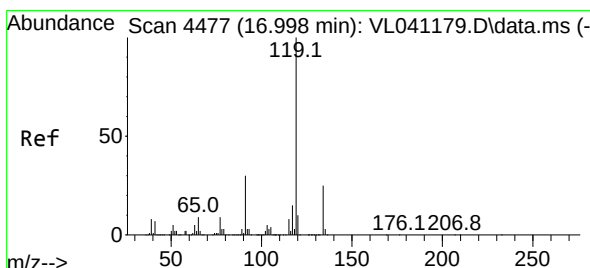
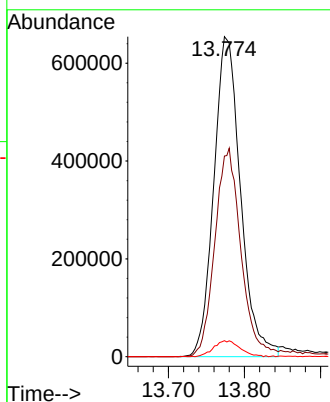
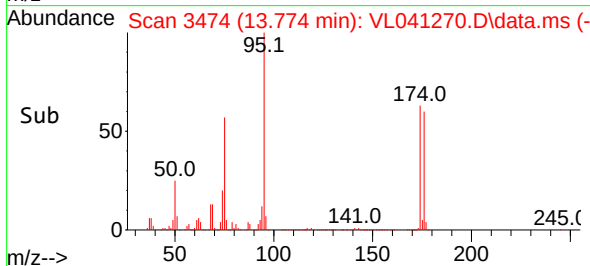
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 95 Resp: 159816
Ion Ratio Lower Upper
95 100
174 66.5 53.6 80.4
175 5.1 4.2 6.4

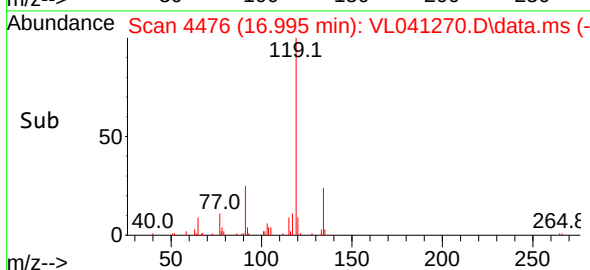
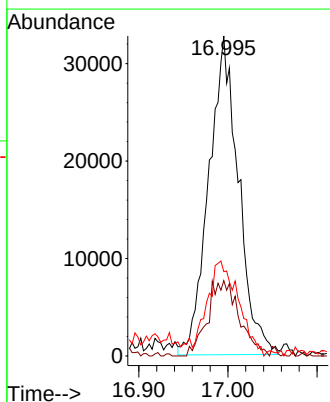
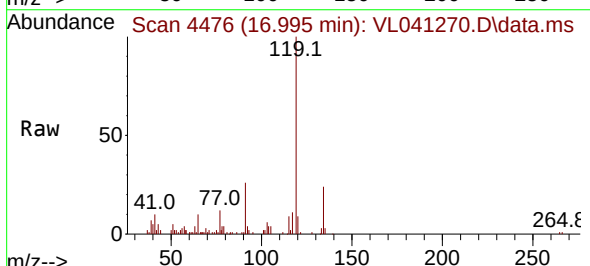
Manual Integrations
APPROVED

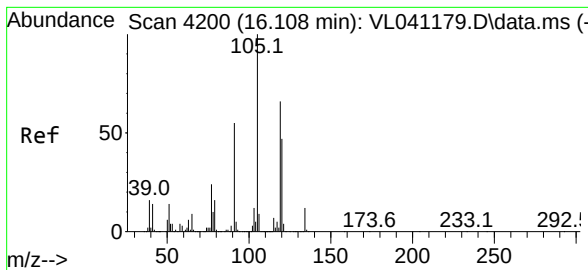
Reviewed By :Semsettin Yesilyurt 05/22/2024
Supervised By :Mahesh Dadoda 05/22/2024



#69
p-Isopropyltoluene
Concen: 0.215 ppbv
RT: 16.995 min Scan# 4476
Delta R.T. 0.006 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

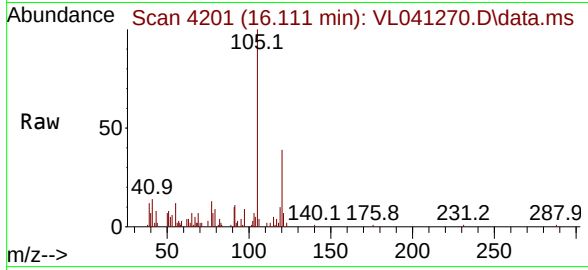
Tgt Ion:119 Resp: 75824
Ion Ratio Lower Upper
119 100
134 26.1 20.1 30.1
91 33.4 24.2 36.2





#74
1,2,4-Trimethylbenzene
Concen: 0.162 ppbv m
RT: 16.111 min Scan# 4201
Delta R.T. 0.006 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15

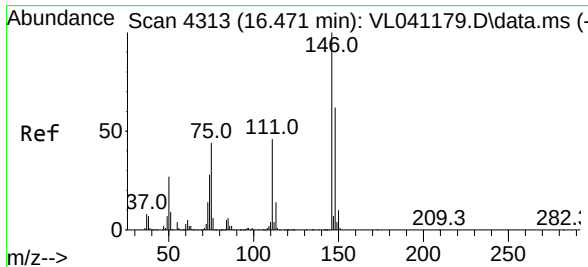
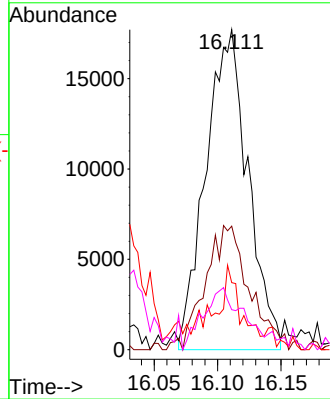
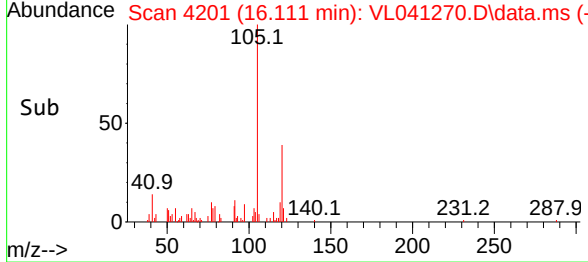
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



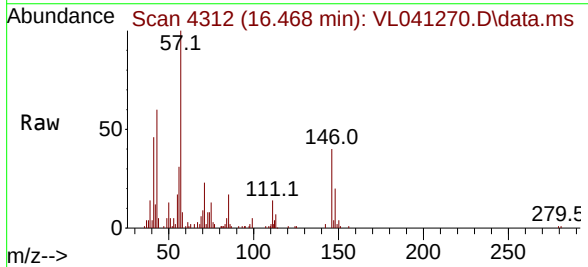
Tgt Ion:105 Resp: 4096
Ion Ratio Lower Upper
105 100
120 38.6 37.8 56.6
91 11.3 44.3 66.5
77 12.5 19.0 28.4#

Manual Integrations
APPROVED

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



#76
1,4-Dichlorobenzene
Concen: 0.266 ppbv m
RT: 16.468 min Scan# 4312
Delta R.T. 0.000 min
Lab File: VL041270.D
Acq: 21 May 2024 18:15



Tgt Ion:146 Resp: 37120
Ion Ratio Lower Upper
146 100
111 0.0 23.3 69.8#
148 0.0 32.6 97.7#

