

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039661.D
 Acq On : 22 Sep 2022 8:12
 Operator : SY/AP
 Sample : N4669-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG3

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 09/28/2022
 Supervised By :Mahesh Dadoda 09/28/2022

Quant Time: Sep 22 10:05:55 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M

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

QLast Update : Mon Sep 19 14:26:28 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.227	49	957053	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.687	114	2387769	10.000	ppbv	0.03
55) Chlorobenzene-d5	11.500	117	2316748	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.806	95	1720405	9.948	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.767	85	19934	0.180	ppbv	99
3) Chlorodifluoromethane	2.706	51	52017	0.458	ppbv #	91
4) Chloromethane	2.851	50	24203	0.353	ppbv	91
9) Propene	2.738	41	30798	0.594	ppbv	98
11) Trichlorofluoromethane	3.603	101	40248	0.293	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.102	101	8093m	0.078	ppbv	
13) Ethanol	3.279	45	2939291	743.691	ppbv	70
15) Acetone	3.500	43	2947996	27.682	ppbv	94
20) Methylene Chloride	3.970	84	64196	1.304	ppbv	88
25) Ethyl Acetate	5.246	43	402622	1.734	ppbv #	93
26) Hexane	5.246	57	303242	3.077	ppbv #	61
34) 2-Butanone	4.825	43	449691	3.834	ppbv	99
36) Benzene	6.404	78	69918	0.383	ppbv #	93
38) Trichloroethene	7.320	130	1602187	16.239	ppbv	98
41) Tetrahydrofuran	5.594	42	217934	3.029	ppbv	97
44) 2,2,4-Trimethylpentane	7.359	57	203880m	0.648	ppbv	
52) Tetrachloroethene	10.658	164	7166493	102.900	ppbv	95
53) Toluene	9.256	91	544789	2.683	ppbv	98
58) Ethyl Benzene	12.124	91	65615	0.246	ppbv	89
59) m/p-Xylene	12.378	91	269423m	1.133	ppbv	
60) o-Xylene	13.089	91	95520m	0.421	ppbv	
73) 1,3,5-Trimethylbenzene	15.384	105	67331	0.284	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.143	105	246792	0.928	ppbv #	70

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

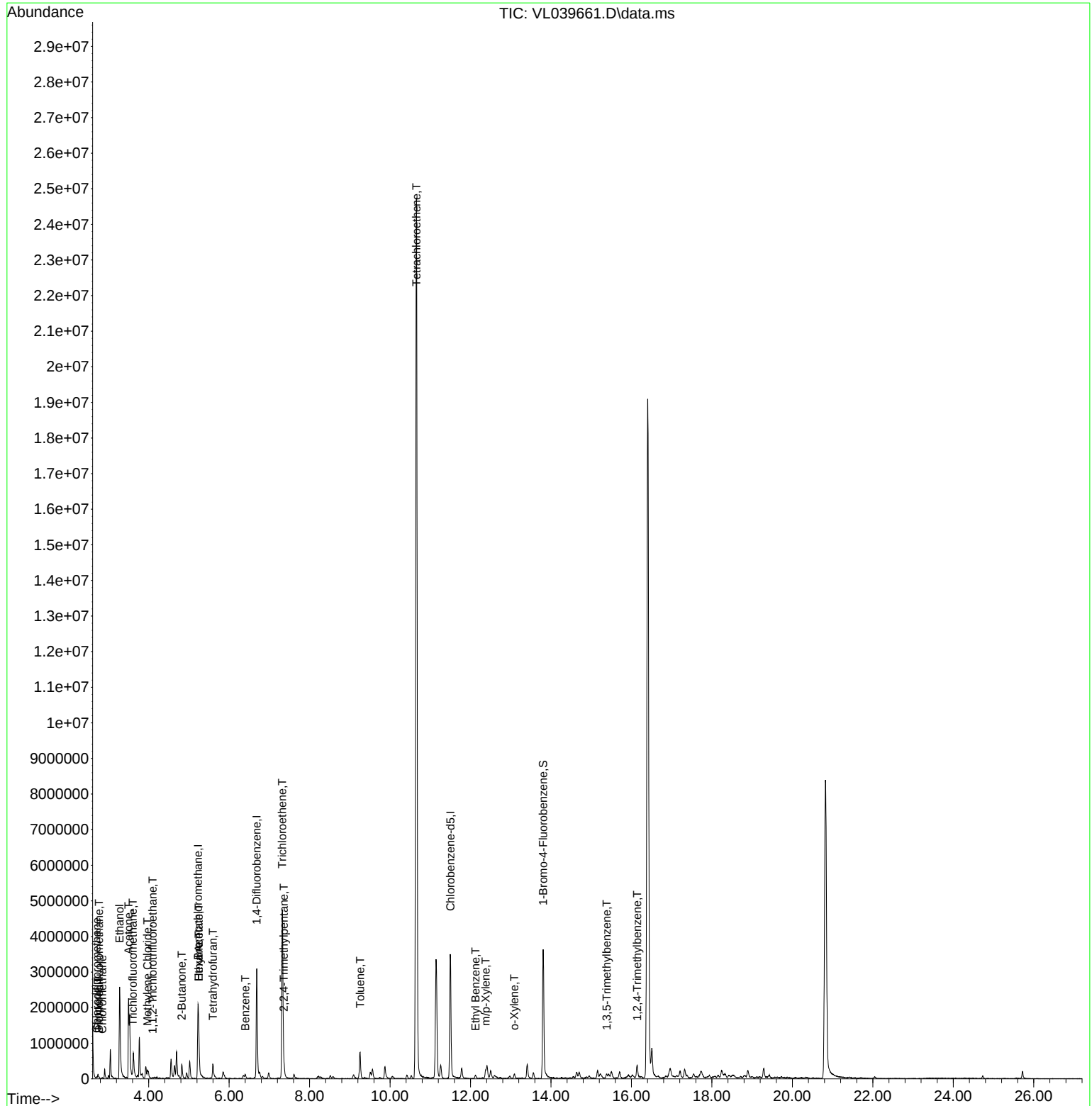
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
Data File : VL039661.D
Acq On : 22 Sep 2022 8:12
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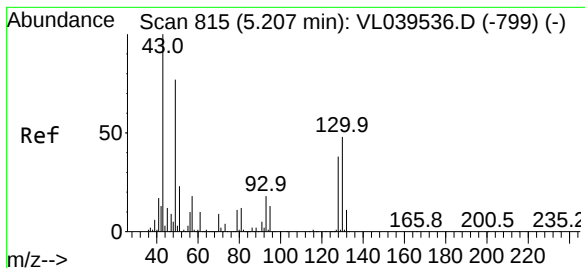
Instrument :
MSVOA_L
ClientSampleId :
C0PG3

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Supervised By :Mahesh Dadoda 09/28/2022

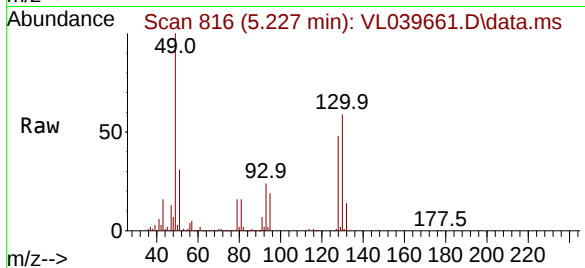
Quant Time: Sep 22 10:05:55 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.227 min Scan# 815
Delta R.T. 0.020 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

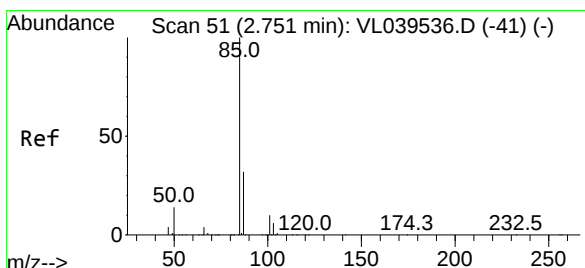
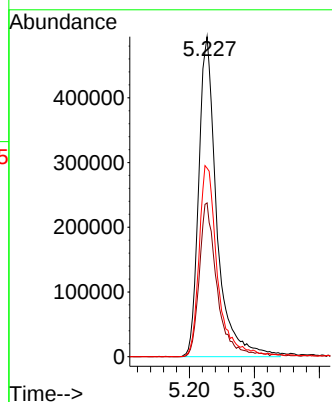
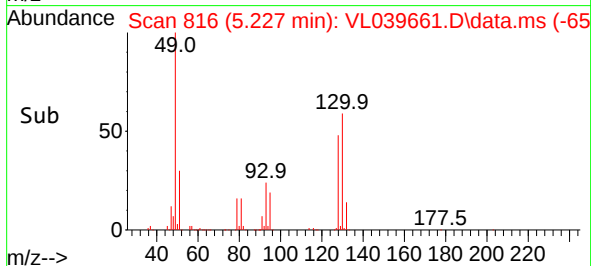
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



Tgt Ion: 49 Resp: 95705
Ion Ratio Lower Upper
49 100
128 47.4 26.7 80.0
130 62.0 34.3 102.8

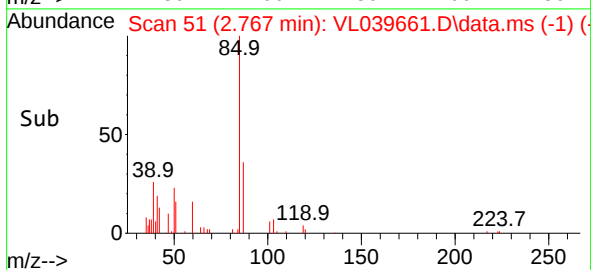
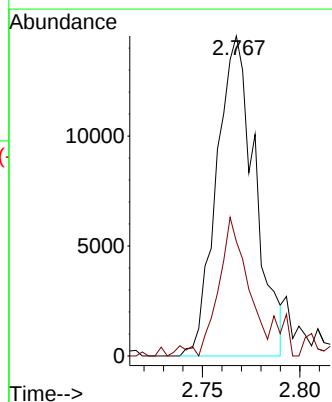
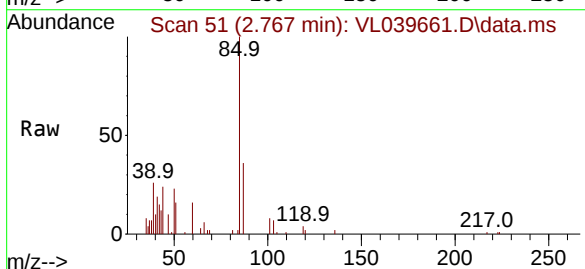
Manual Integrations
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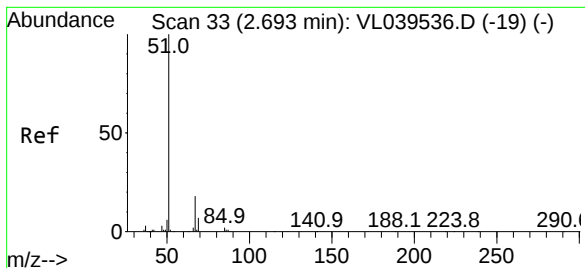
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#2
Dichlorodifluoromethane
Concen: 0.180 ppbv
RT: 2.767 min Scan# 51
Delta R.T. 0.017 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

Tgt Ion: 85 Resp: 19934
Ion Ratio Lower Upper
85 100
87 32.6 26.7 40.1





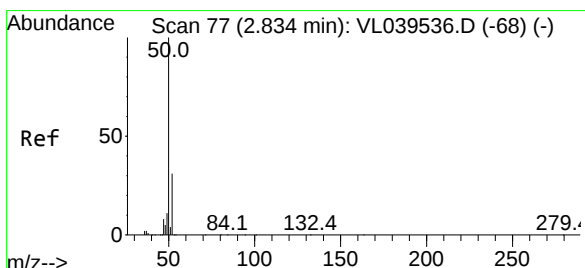
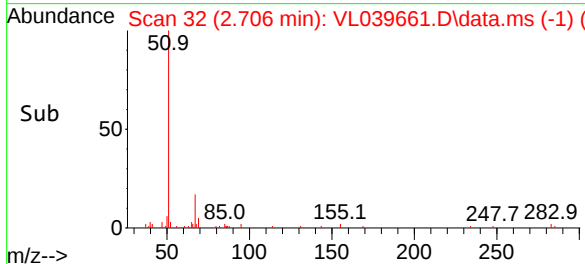
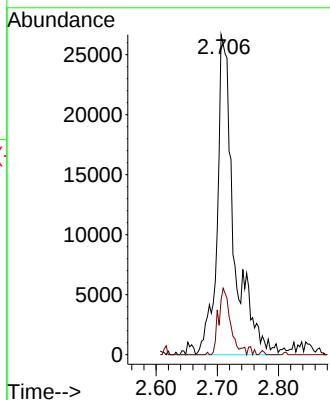
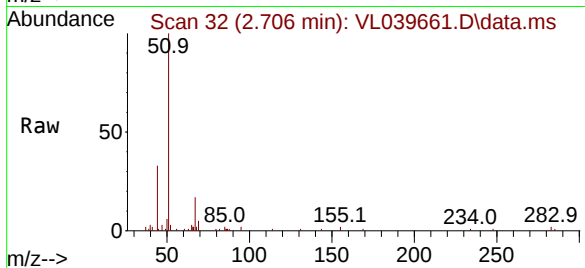
#3
Chlorodifluoromethane
Concen: 0.458 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

Instrument :
MSVOA_L
ClientSampleId :
C0PG3

Tgt Ion: 51 Resp: 5201
Ion Ratio Lower Upper
51 100
67 15.3 15.7 23.5

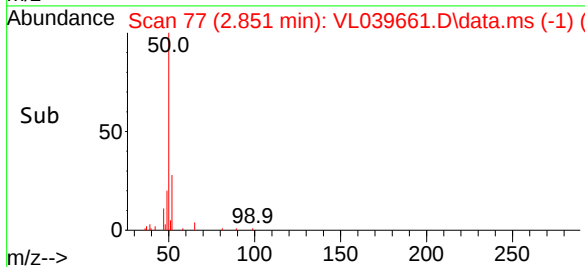
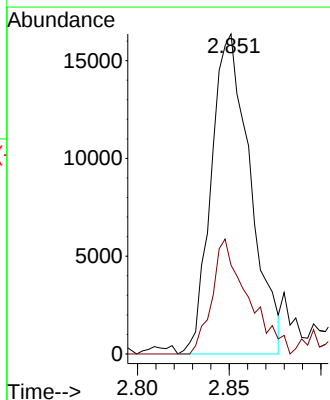
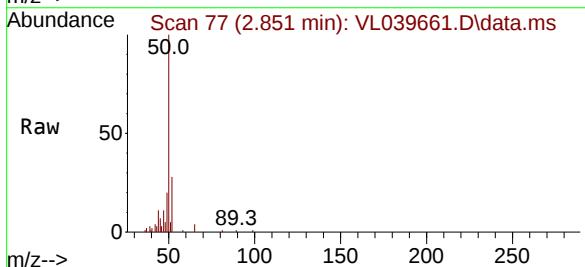
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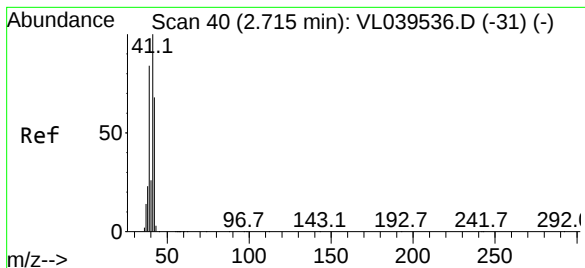
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#4
Chloromethane
Concen: 0.353 ppbv
RT: 2.851 min Scan# 77
Delta R.T. 0.017 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

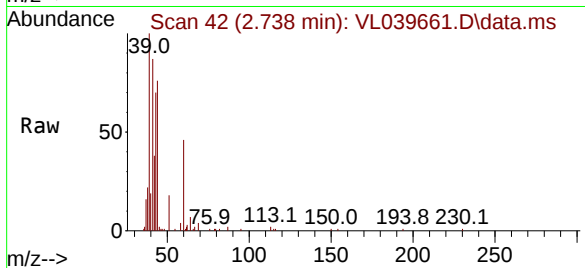
Tgt Ion: 50 Resp: 24203
Ion Ratio Lower Upper
50 100
52 28.2 26.5 39.7





#9
Propene
Concen: 0.594 ppbv
RT: 2.738 min Scan# 41
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

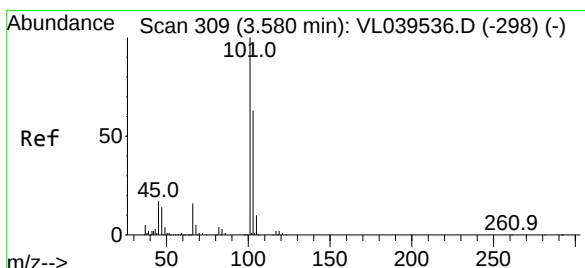
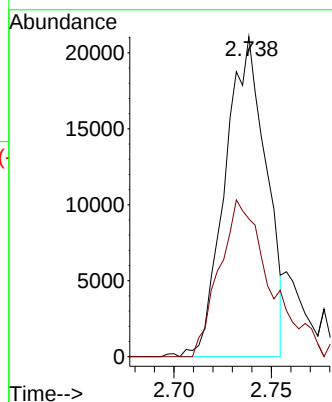
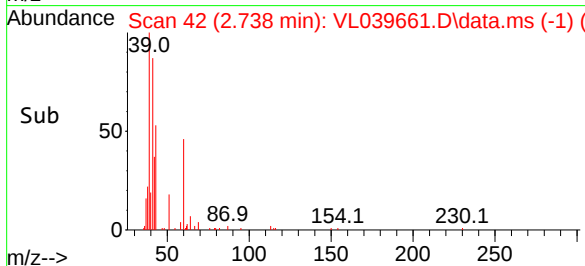
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



Tgt Ion: 41 Resp: 30798
Ion Ratio Lower Upper
41 100
42 67.4 55.2 82.8

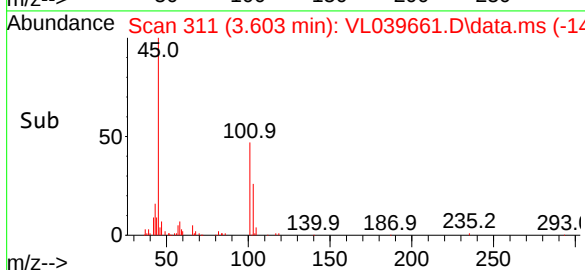
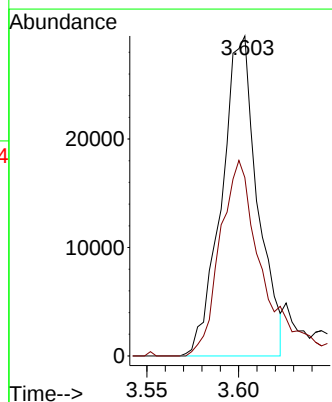
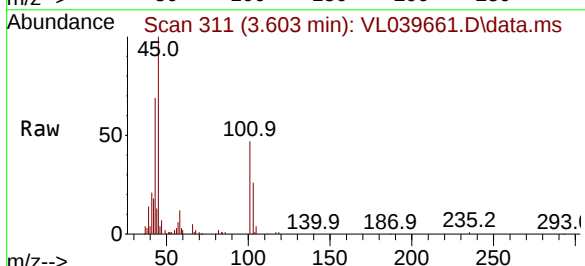
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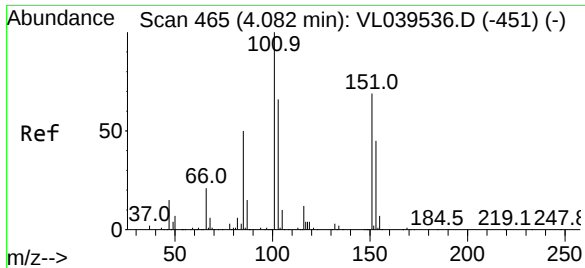
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#11
Trichlorofluoromethane
Concen: 0.293 ppbv
RT: 3.603 min Scan# 311
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

Tgt Ion:101 Resp: 40248
Ion Ratio Lower Upper
101 100
103 55.8 51.8 77.8





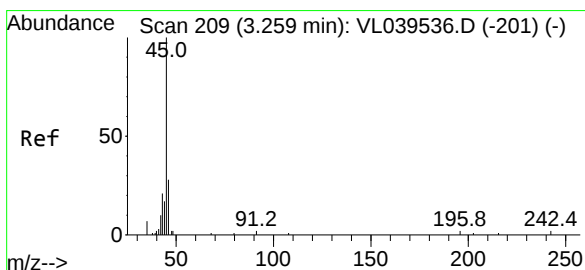
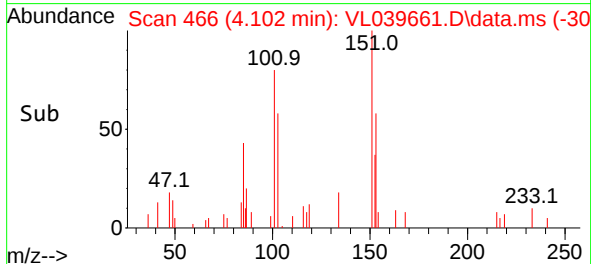
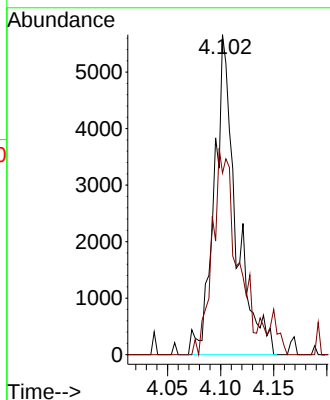
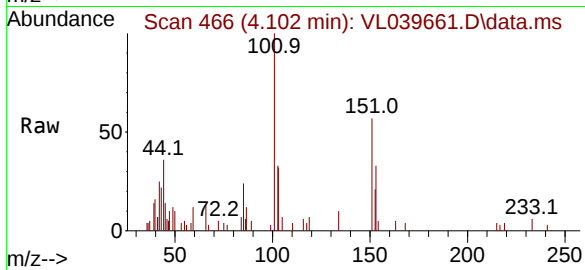
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.078 ppbv m
RT: 4.102 min Scan# 4
Delta R.T. 0.020 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

Instrument :
MSVOA_L
ClientSampleId :
C0PG3

Tgt Ion:101 Resp: 809
Ion Ratio Lower Upper
101 100
151 0.0 58.9 88.3

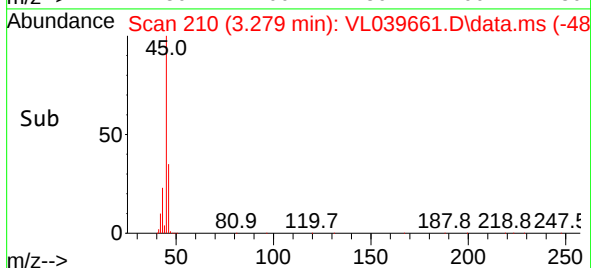
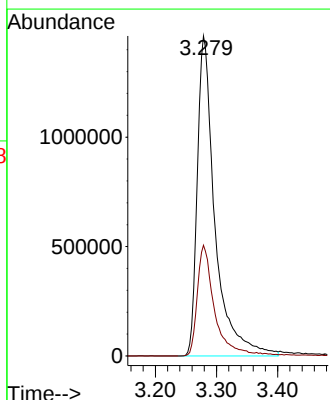
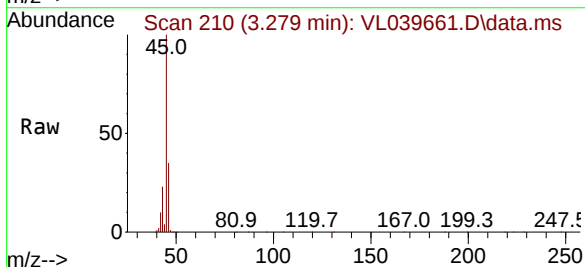
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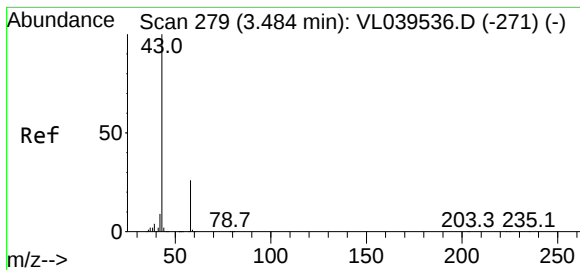
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#13
Ethanol
Concen: 743.691 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.020 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

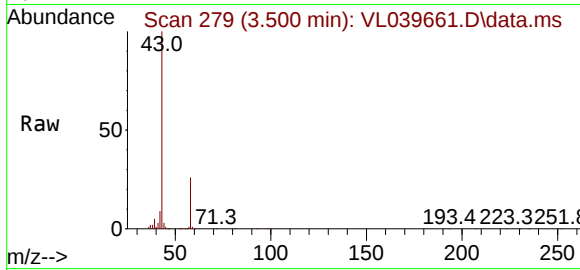
Tgt Ion: 45 Resp: 2939291
Ion Ratio Lower Upper
45 100
46 34.7 22.8 91.2





#15
Acetone
Concen: 27.682 ppbv
RT: 3.500 min Scan# 21
Delta R.T. 0.017 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

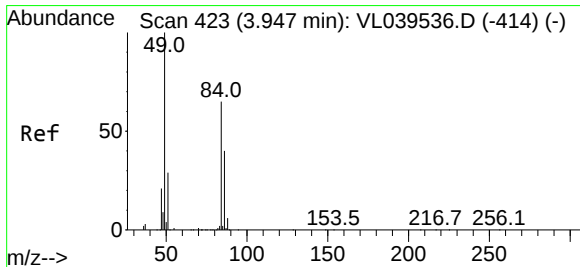
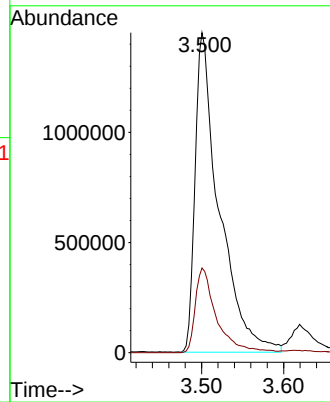
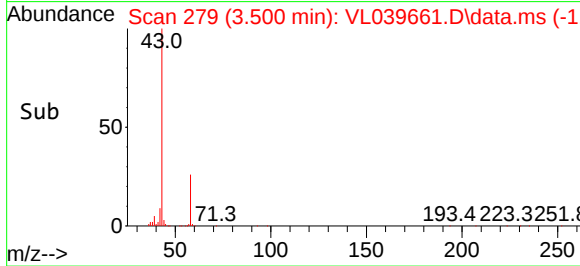
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



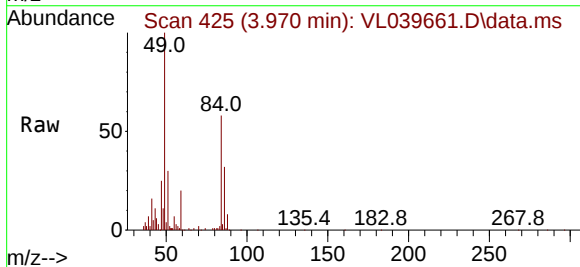
Tgt Ion: 43 Resp: 2947990
Ion Ratio Lower Upper
43 100
58 23.4 21.0 31.6

Manual Integrations
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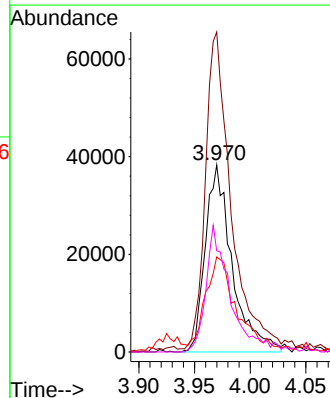
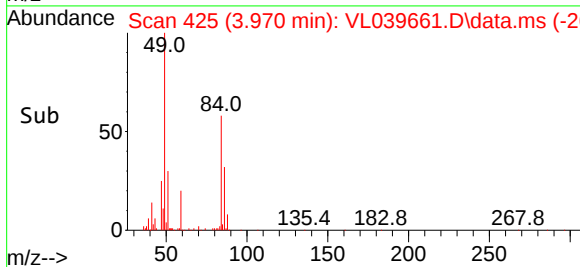
Reviewed By :Krupa Patel 09/28/2022
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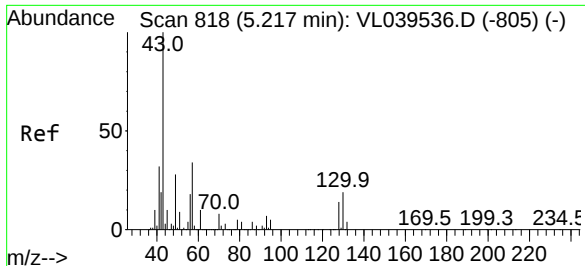


#20
Methylene Chloride
Concen: 1.304 ppbv
RT: 3.970 min Scan# 425
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12



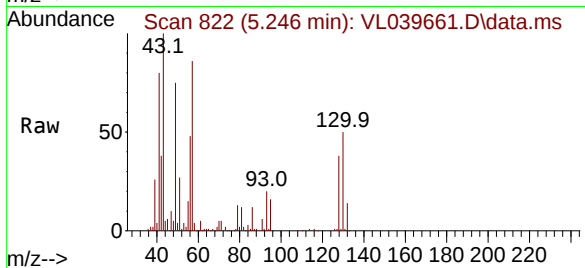
Tgt Ion: 84 Resp: 64196
Ion Ratio Lower Upper
84 100
49 169.4 123.1 184.7
51 48.6 34.4 51.6
86 54.1 51.1 76.7





#25
Ethyl Acetate
Concen: 1.734 ppbv
RT: 5.246 min Scan# 818
Delta R.T. 0.030 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

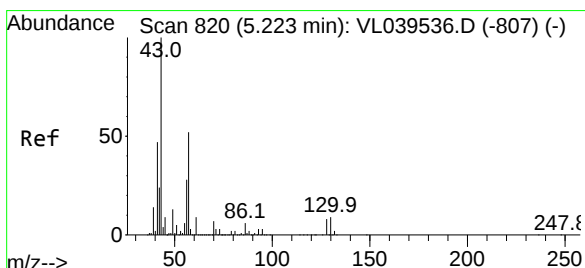
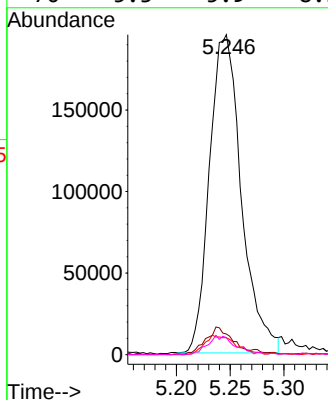
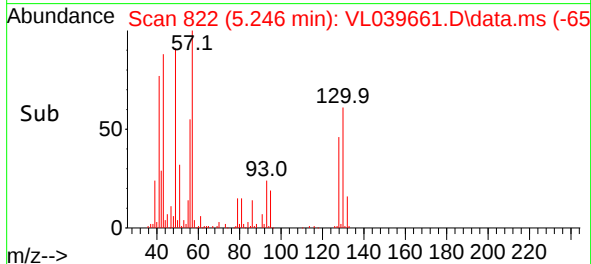
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MSVOA_L
ClientSampleId :
C0PG3



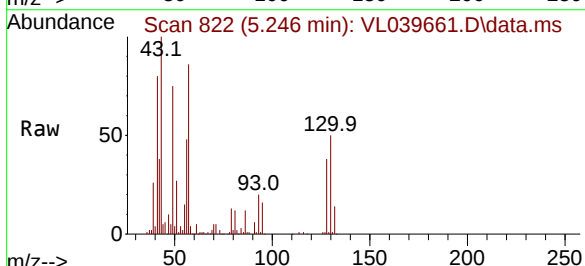
Tgt Ion: 43 Resp: 40262
Ion Ratio Lower Upper
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45 8.6 8.2 12.4
61 6.1 8.3 12.5
70 5.3 5.9 8.9#

Manual Integrations
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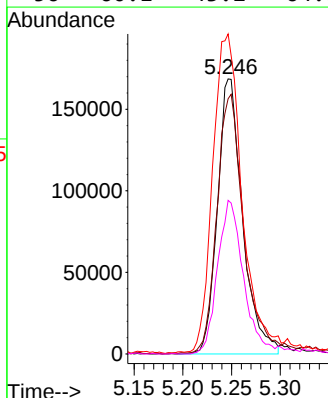
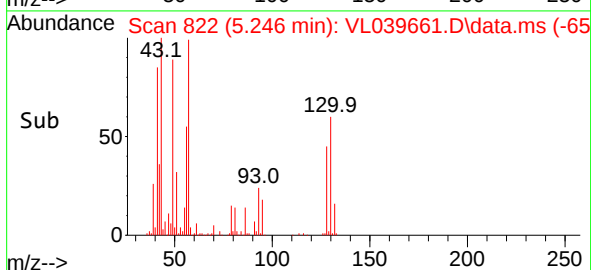
Reviewed By :Krupa Patel 09/28/2022
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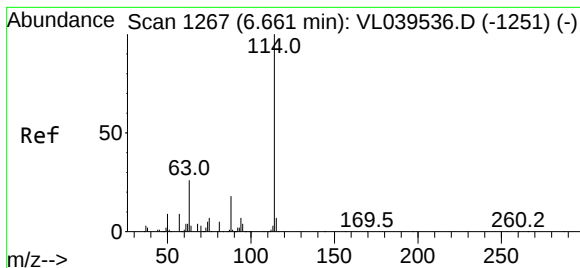


#26
Hexane
Concen: 3.077 ppbv
RT: 5.246 min Scan# 822
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12



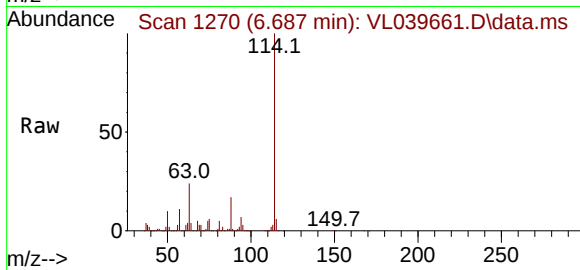
Tgt Ion: 57 Resp: 303242
Ion Ratio Lower Upper
57 100
41 103.2 76.9 115.3
43 138.4 191.0 286.6#
56 60.1 43.2 64.8





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.687 min Scan# 114
Delta R.T. 0.026 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

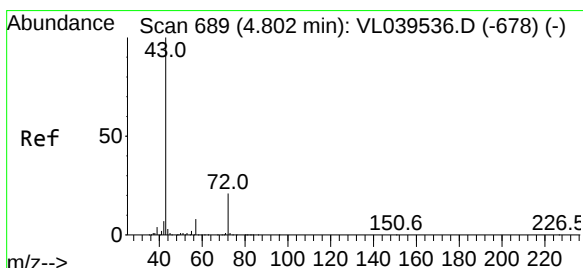
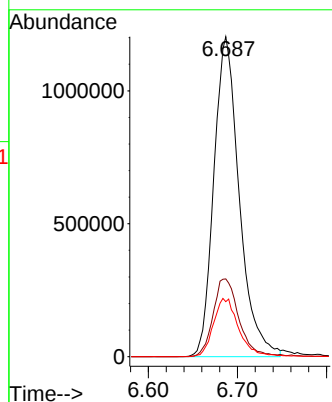
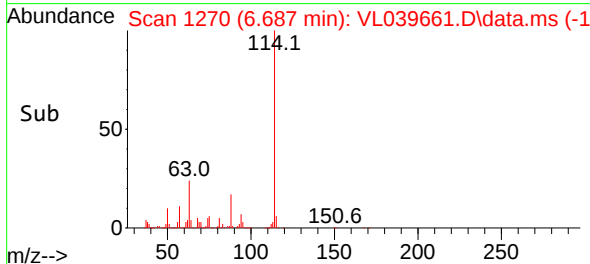
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



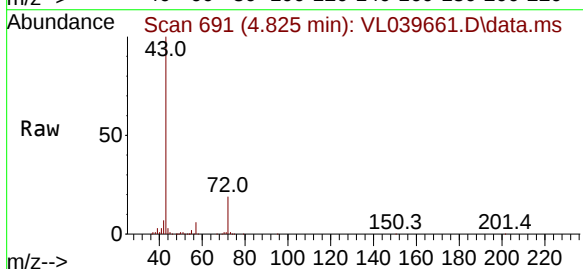
Tgt Ion:114 Resp: 2387769
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.4
88 18.4 14.5 21.7

Manual Integrations
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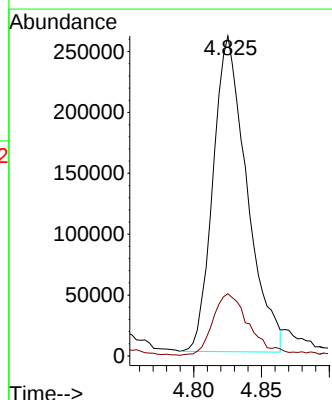
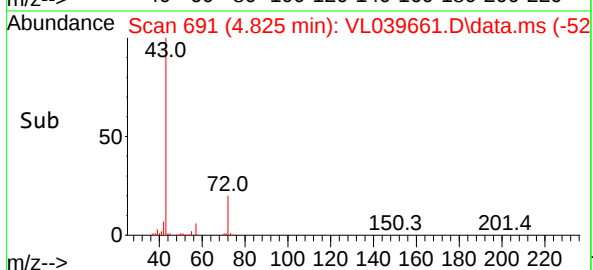
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

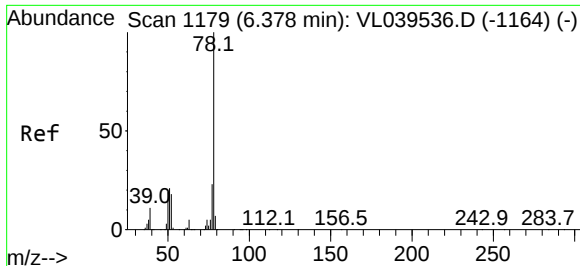


#34
2-Butanone
Concen: 3.834 ppbv
RT: 4.825 min Scan# 691
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12



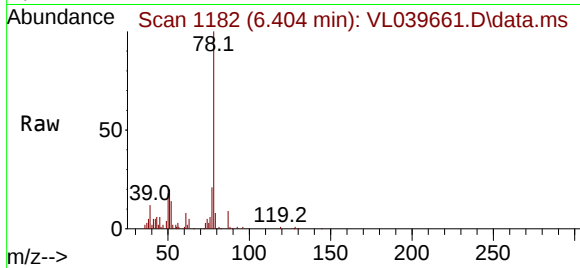
Tgt Ion: 43 Resp: 449691
Ion Ratio Lower Upper
43 100
72 22.8 17.9 26.9





#36
Benzene
Concen: 0.383 ppbv
RT: 6.404 min Scan# 1179
Delta R.T. 0.026 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

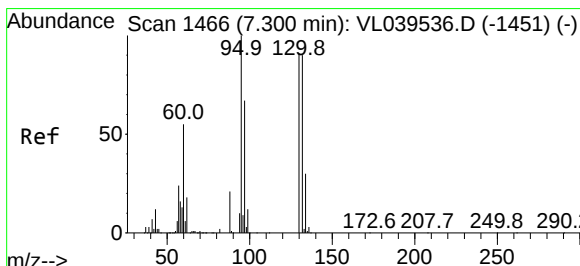
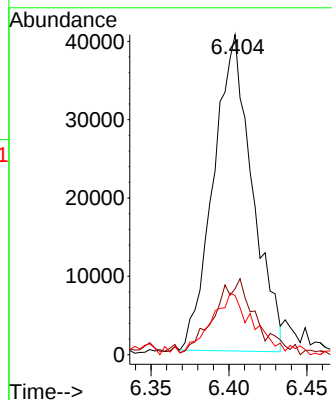
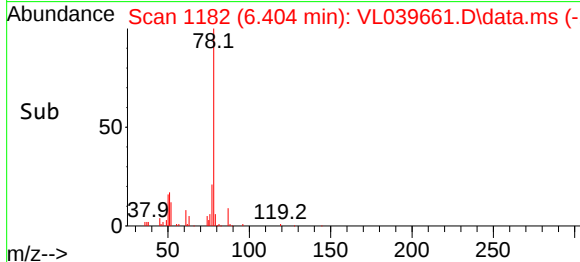
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



Tgt Ion: 78 Resp: 69918
Ion Ratio Lower Upper
78 100
77 20.3 20.3 30.5
50 18.2 15.5 23.3

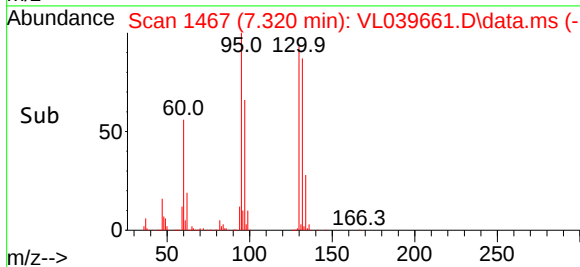
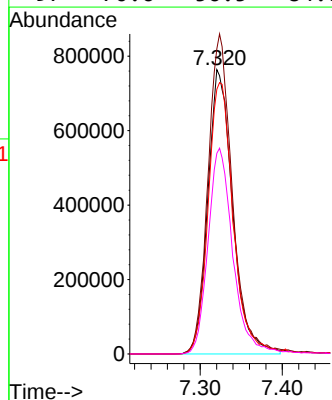
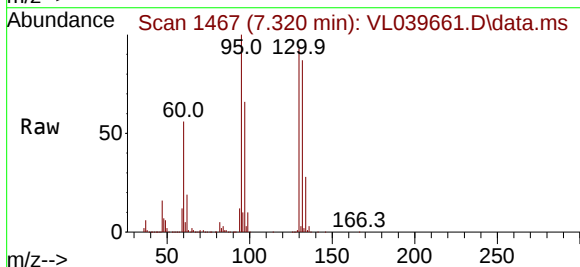
Manual Integrations
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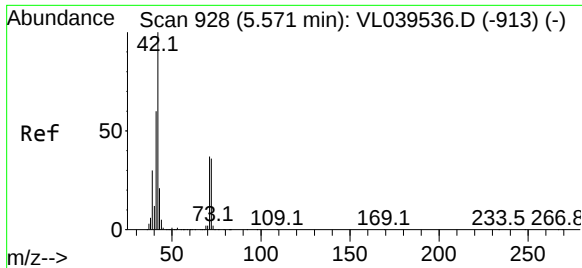
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#38
Trichloroethene
Concen: 16.239 ppbv
RT: 7.320 min Scan# 1467
Delta R.T. 0.020 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

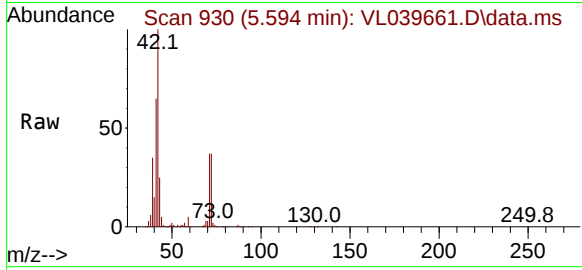
Tgt Ion:130 Resp: 1602187
Ion Ratio Lower Upper
130 100
95 107.1 87.3 130.9
132 93.0 76.7 115.1
97 70.6 56.5 84.7





#41
Tetrahydrofuran
Concen: 3.029 ppbv
RT: 5.594 min Scan# 91
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

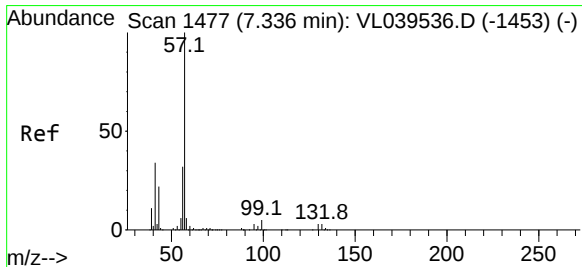
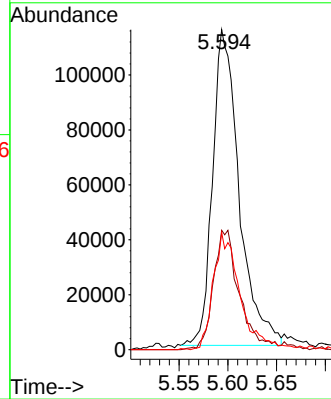
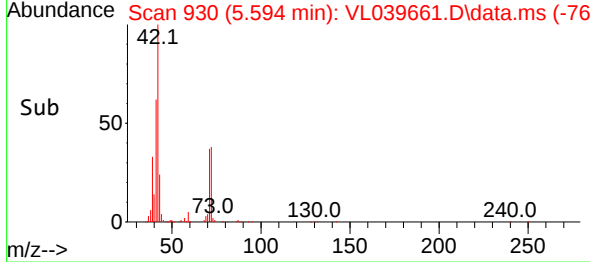
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



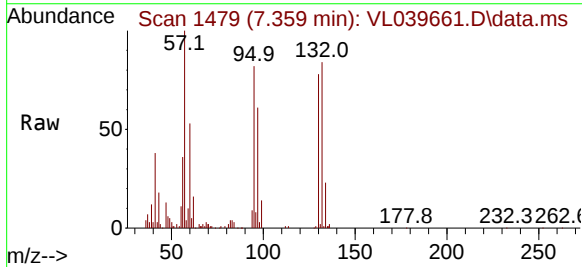
Tgt Ion: 42 Resp: 217934
Ion Ratio Lower Upper
42 100
72 38.3 31.8 47.8
71 37.6 31.8 47.8

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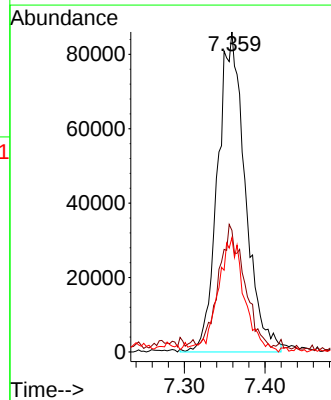
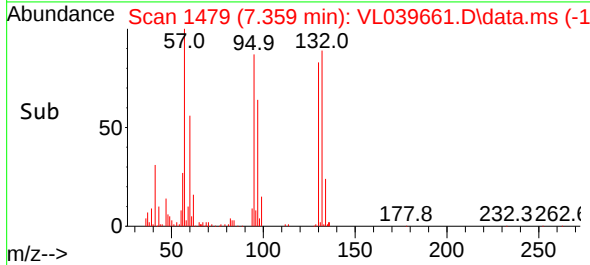
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

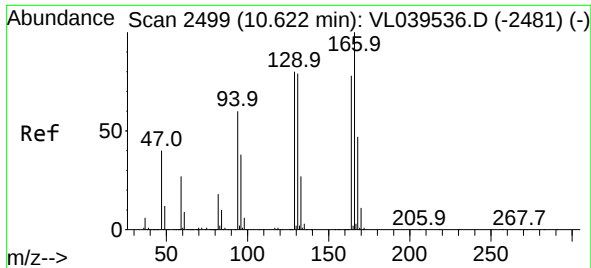


#44
2,2,4-Trimethylpentane
Concen: 0.648 ppbv m
RT: 7.359 min Scan# 1479
Delta R.T. 0.023 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12



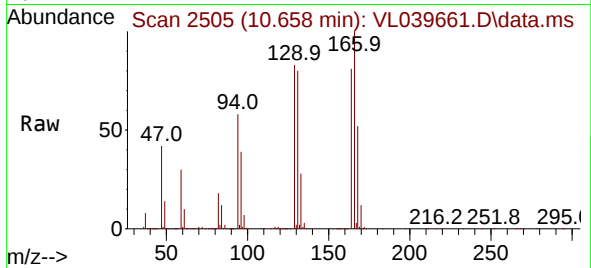
Tgt Ion: 57 Resp: 203880
Ion Ratio Lower Upper
57 100
41 43.7 27.4 41.2#
56 35.6 24.5 36.7





#52
Tetrachloroethene
Concen: 102.900 ppbv
RT: 10.658 min Scan# 216649
Delta R.T. 0.036 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

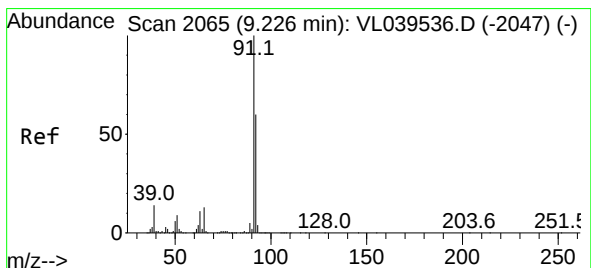
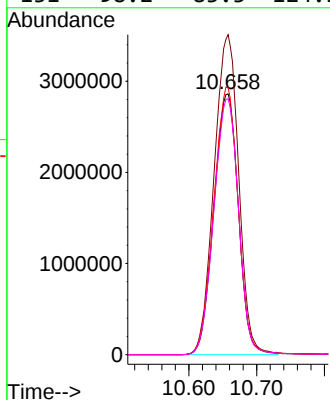
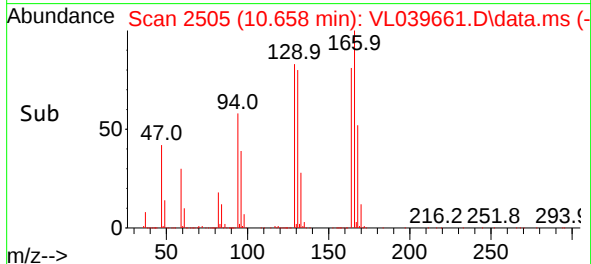
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



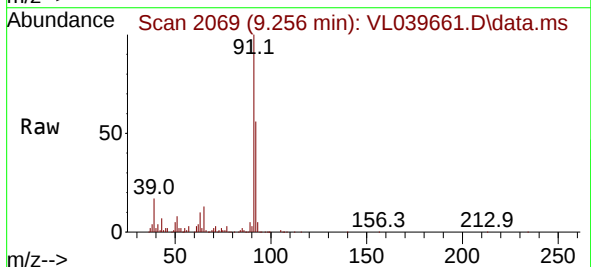
Tgt Ion:164 Resp: 716649
Ion Ratio Lower Upper
164 100
166 122.7 102.2 153.2
129 102.4 85.8 128.8
131 98.2 83.3 124.9

Manual Integrations
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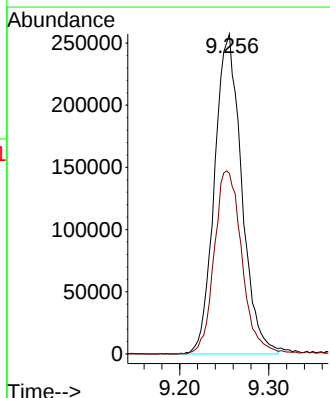
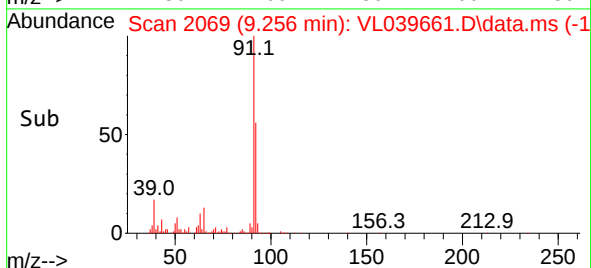
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022

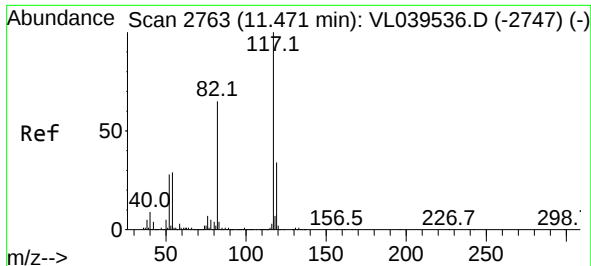


#53
Toluene
Concen: 2.683 ppbv
RT: 9.256 min Scan# 2069
Delta R.T. 0.030 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12



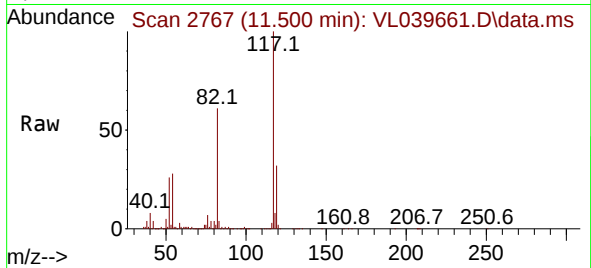
Tgt Ion: 91 Resp: 544789
Ion Ratio Lower Upper
91 100
92 58.9 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.500 min Scan# 21
Delta R.T. 0.030 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

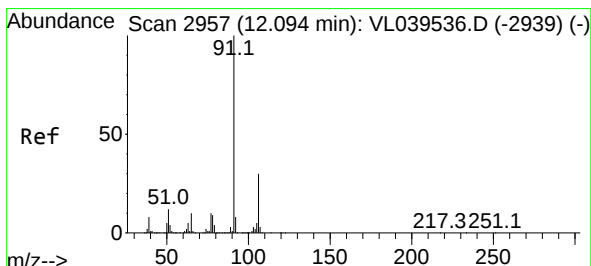
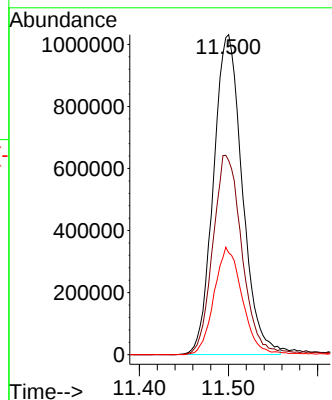
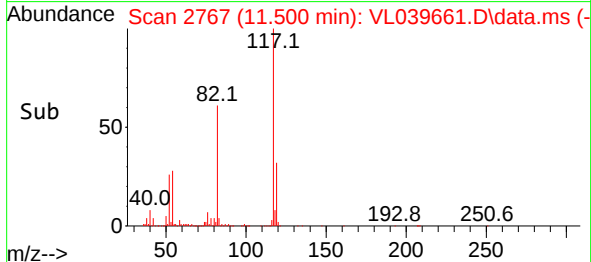
Instrument :
MSVOA_L
ClientSampleId :
C0PG3



Tgt Ion:117 Resp: 231674
Ion Ratio Lower Upper
117 100
82 64.4 50.8 76.2
119 33.3 24.1 36.1

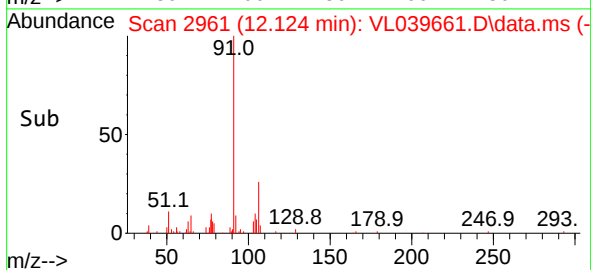
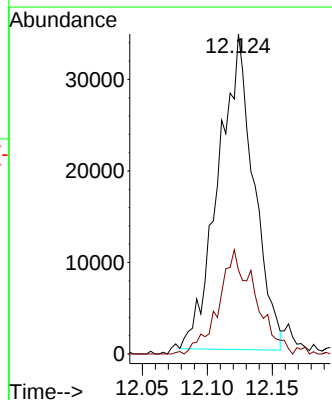
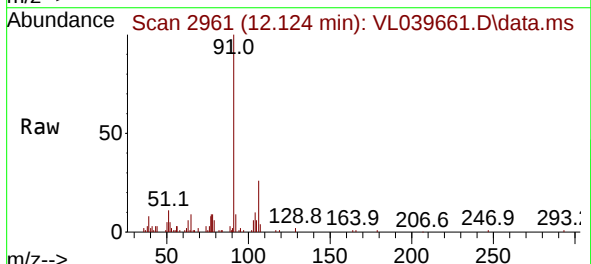
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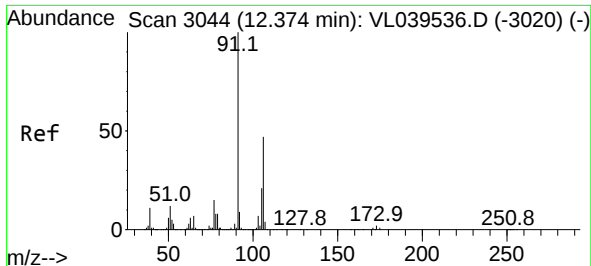
Reviewed By :Krupa Patel 09/28/2022
Supervised By :Mahesh Dadoda 09/28/2022



#58
Ethyl Benzene
Concen: 0.246 ppbv
RT: 12.124 min Scan# 2961
Delta R.T. 0.030 min
Lab File: VL039661.D
Acq: 22 Sep 2022 8:12

Tgt Ion: 91 Resp: 65615
Ion Ratio Lower Upper
91 100
106 25.8 25.4 38.0





#59

m/p-Xylene

Concen: 1.133 ppbv m

RT: 12.378 min Scan# 3044

Delta R.T. 0.004 min

Lab File: VL039661.D

Acq: 22 Sep 2022 8:12

Instrument :

MSVOA_L

ClientSampleId :

C0PG3

Tgt Ion: 91 Resp: 26942

Ion Ratio Lower Upper

91 100

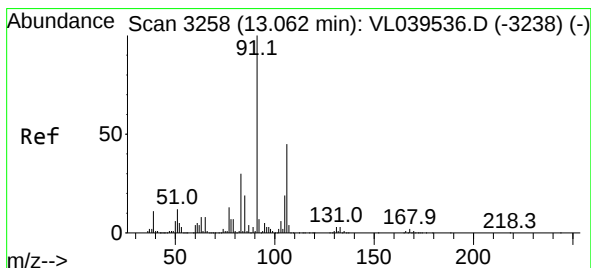
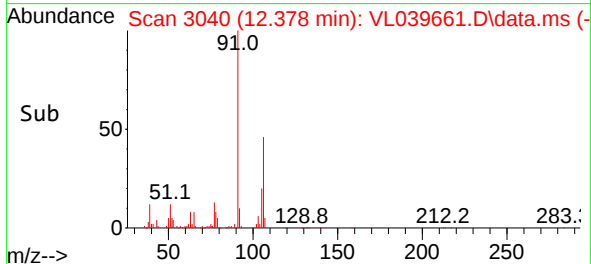
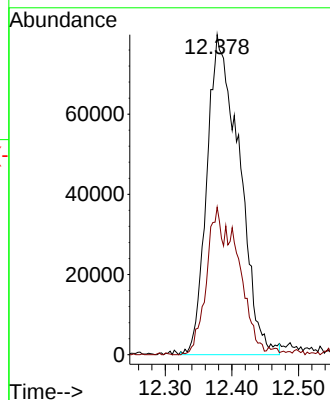
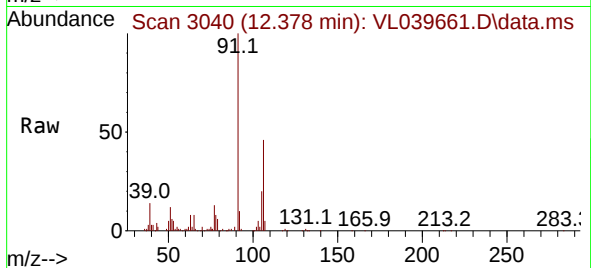
106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Krupa Patel 09/28/2022

Supervised By :Mahesh Dadoda 09/28/2022



#60

o-Xylene

Concen: 0.421 ppbv m

RT: 13.089 min Scan# 3261

Delta R.T. 0.026 min

Lab File: VL039661.D

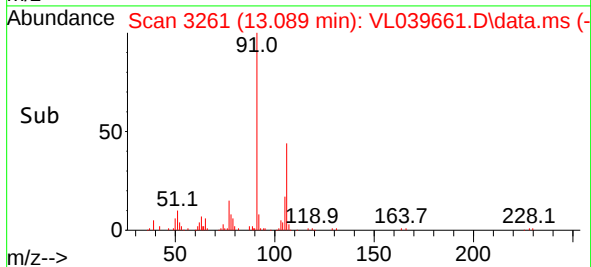
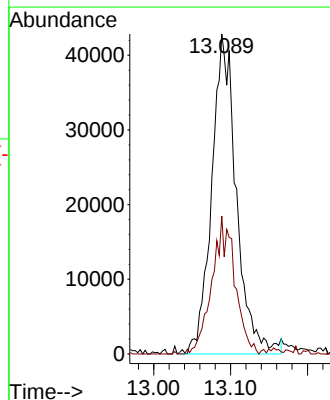
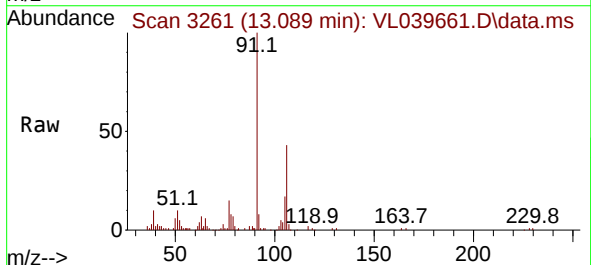
Acq: 22 Sep 2022 8:12

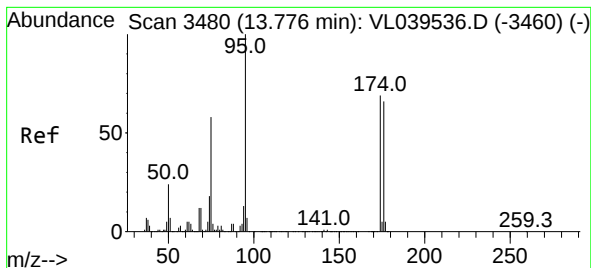
Tgt Ion: 91 Resp: 95520

Ion Ratio Lower Upper

91 100

106 0.0 22.4 67.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.948 ppbv

RT: 13.806 min Scan# 3480

Delta R.T. 0.030 min

Lab File: VL039661.D

Acq: 22 Sep 2022 8:12

Instrument :

MSVOA_L

ClientSampleId :

C0PG3

Tgt Ion: 95 Resp: 172040

Ion Ratio Lower Upper

95 100

174 73.0 55.9 83.9

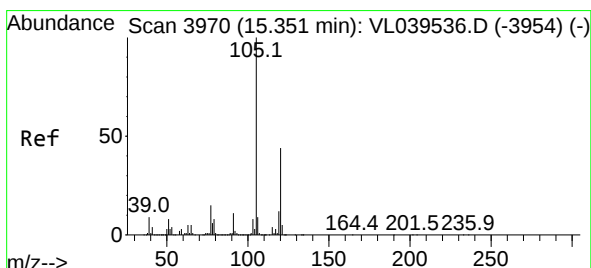
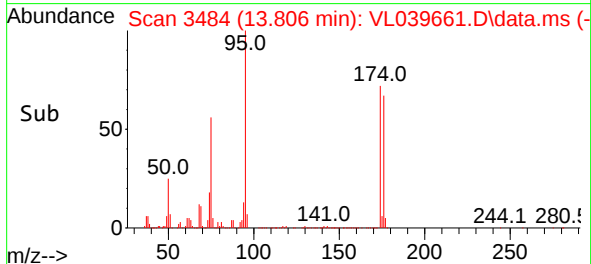
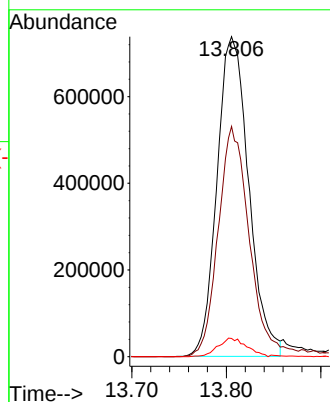
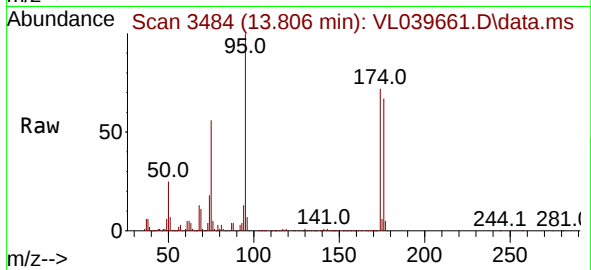
175 5.5 4.2 6.4

Manual Integrations

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Reviewed By :Krupa Patel 09/28/2022

Supervised By :Mahesh Dadoda 09/28/2022



#73

1,3,5-Trimethylbenzene

Concen: 0.284 ppbv

RT: 15.384 min Scan# 3975

Delta R.T. 0.033 min

Lab File: VL039661.D

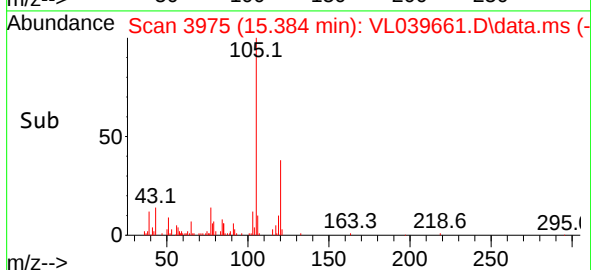
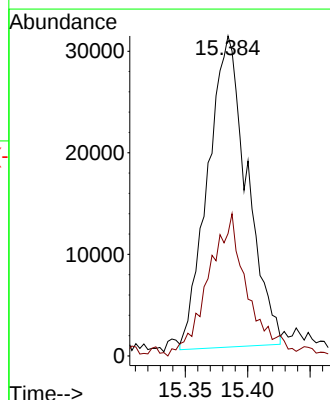
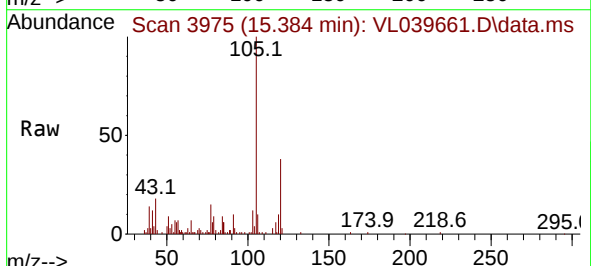
Acq: 22 Sep 2022 8:12

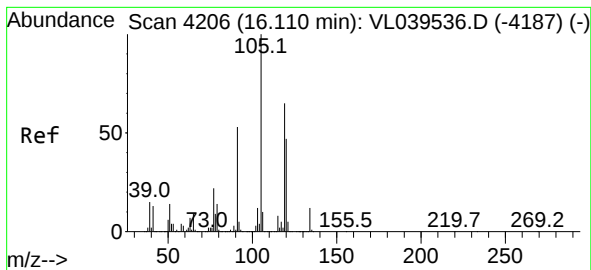
Tgt Ion:105 Resp: 67331

Ion Ratio Lower Upper

105 100

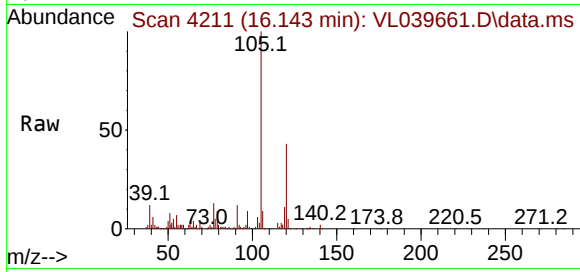
120 35.7 38.2 57.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.928 ppbv
 RT: 16.143 min Scan# 41
 Delta R.T. 0.033 min
 Lab File: VL039661.D
 Acq: 22 Sep 2022 8:12

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG3



Tgt Ion:	105	Resp:	246792
Ion	Ratio	Lower	Upper
105	100		
120	42.8	39.5	59.3
91	11.5	39.2	58.8
77	11.6	17.2	25.8

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 09/28/2022
 Supervised By :Mahesh Dadoda 09/28/2022

