

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039659.D
 Acq On : 22 Sep 2022 6:53
 Operator : SY/AP
 Sample : N4669-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG2

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

Quant Time: Sep 22 08:28:29 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	5.224	49	1002069	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.684	114	2513066	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.497	117	2356776	10.000	ppbv	0.03

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 adoda

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.802	95	1845028	10.487	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%

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Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.767	85	27039m	0.233	ppbv	
3) Chlorodifluoromethane	2.709	51	78418	0.659	ppbv #	86
4) Chloromethane	2.848	50	25772	0.359	ppbv #	87
9) Propene	2.735	41	32595m	0.600	ppbv	
11) Trichlorofluoromethane	3.597	101	41929	0.291	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.102	101	5286	0.049	ppbv #	49
13) Ethanol	3.279	45	2673524	646.060	ppbv	71
15) Acetone	3.500	43	2573036	23.076	ppbv	93
20) Methylene Chloride	3.970	84	343204	6.657	ppbv	98
25) Ethyl Acetate	5.243	43	440272	1.811	ppbv #	87
26) Hexane	5.246	57	397569	3.853	ppbv #	54
34) 2-Butanone	4.822	43	370848	3.004	ppbv	99
36) Benzene	6.394	78	67154m	0.350	ppbv	
38) Trichloroethene	7.320	130	1018611	9.810	ppbv	97
41) Tetrahydrofuran	5.597	42	173880	2.296	ppbv	98
44) 2,2,4-Trimethylpentane	7.362	57	205001m	0.619	ppbv	
52) Tetrachloroethene	10.651	164	6780304	92.501	ppbv	94
53) Toluene	9.249	91	463863	2.171	ppbv	99
58) Ethyl Benzene	12.121	91	68726m	0.253	ppbv	
59) m/p-Xylene	12.375	91	254841m	1.054	ppbv	
60) o-Xylene	13.085	91	88138m	0.382	ppbv	
72) 4-Ethyltoluene	15.223	105	95355	0.362	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.381	105	77239	0.320	ppbv	94
74) 1,2,4-Trimethylbenzene	16.133	105	270784	1.001	ppbv #	71

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

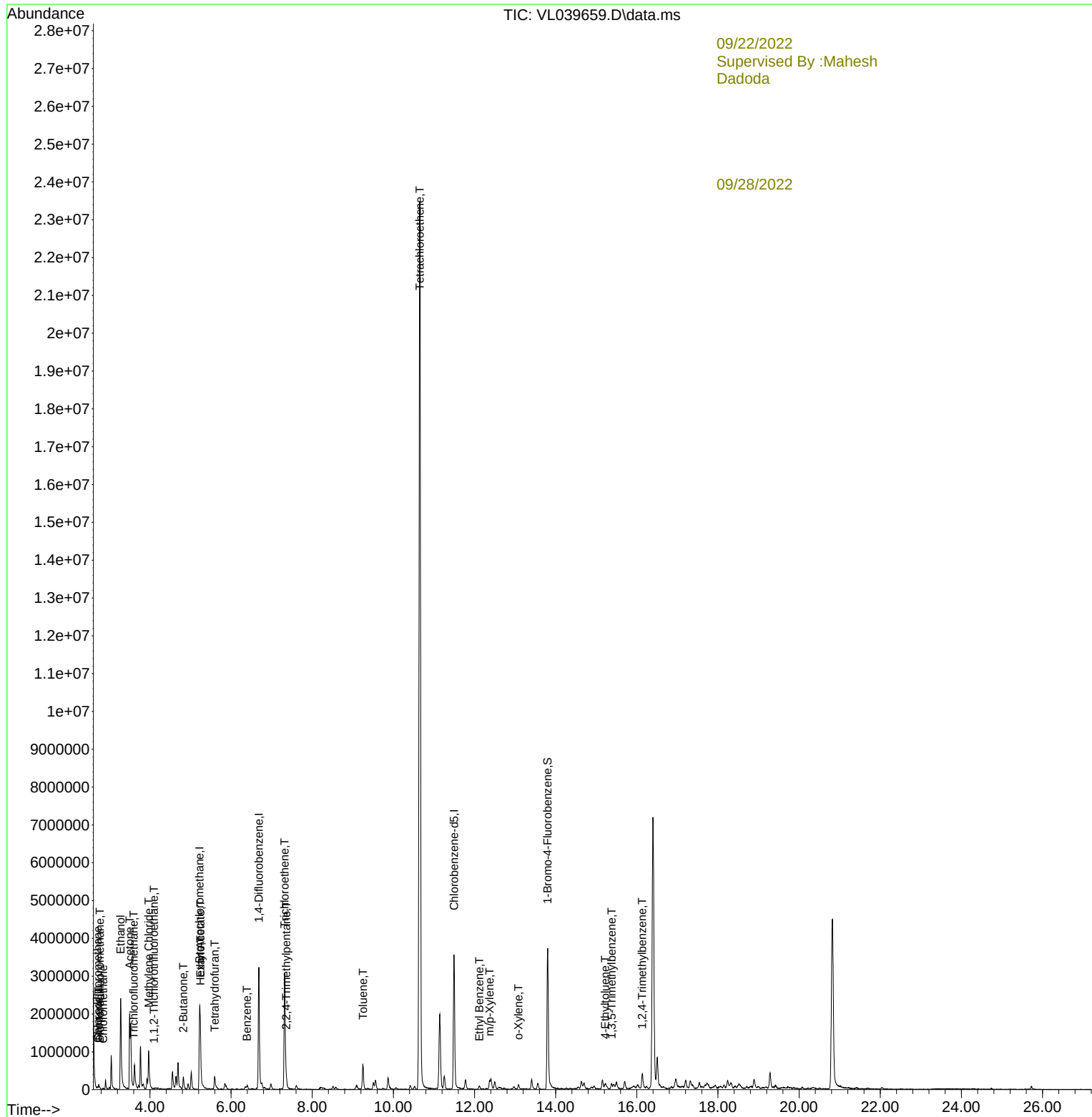
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
Data File : VL039659.D
Acq On : 22 Sep 2022 6:53
Operator : SY/AP
Sample : N4669-10
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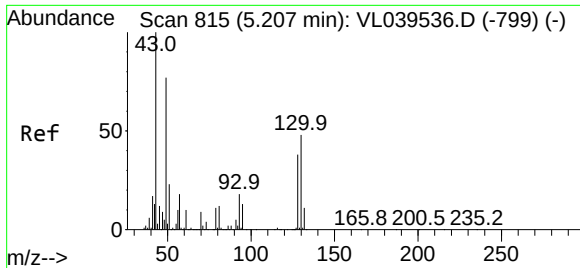
Instrument :
MSVOA_L
ClientSampleId :
C0PG2

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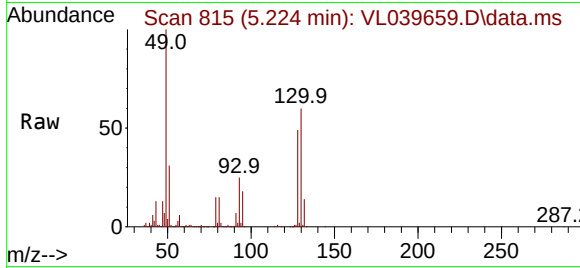
Quant Time: Sep 22 08:28:29 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration





#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.017 min
 Lab File: VL039659.D
 Acq: 22 Sep 2022 6:53

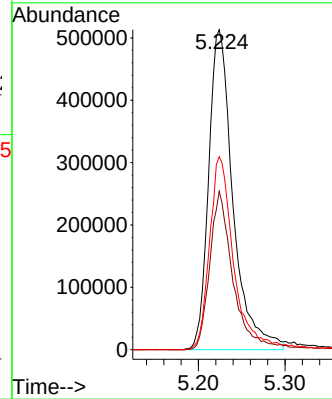
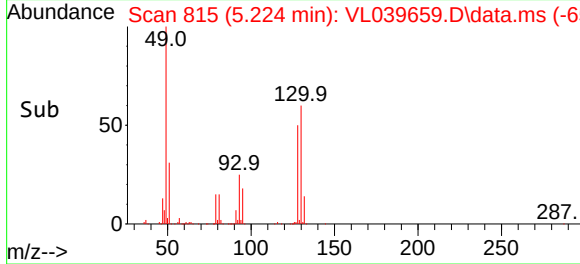
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG2



Tgt Ion: 49 Resp: 1002069
 Ion Ratio Lower Upper
 49 100
 128 47.8 26.7 80.0
 130 61.5 34.3 102.8

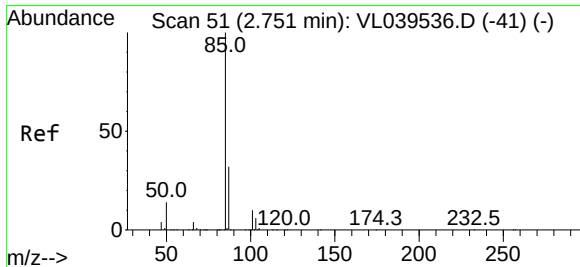
Manual Integrations
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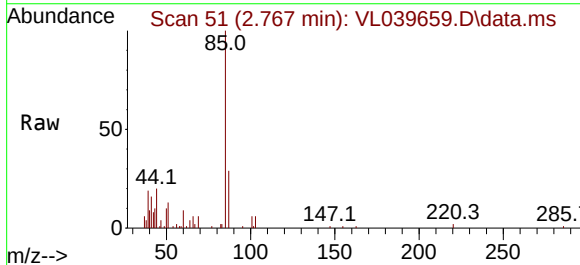


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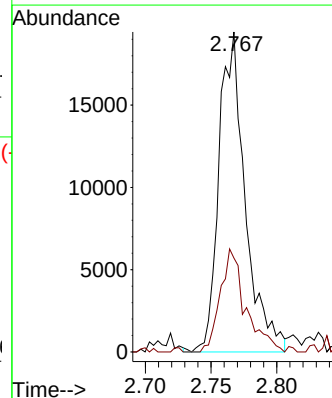
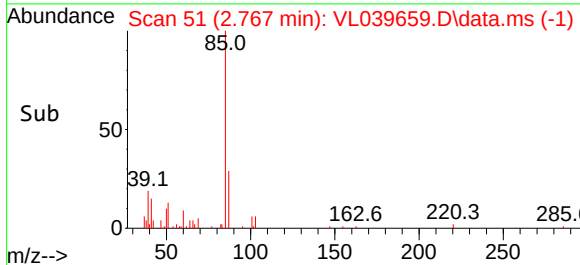
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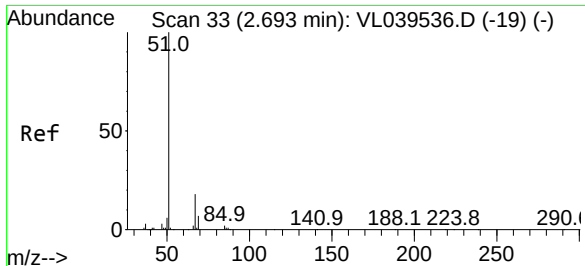


#2
 Dichlorodifluoromethane
 Concen: 0.233 ppbv m
 RT: 2.767 min Scan# 51
 Delta R.T. 0.017 min
 Lab File: VL039659.D
 Acq: 22 Sep 2022 6:53



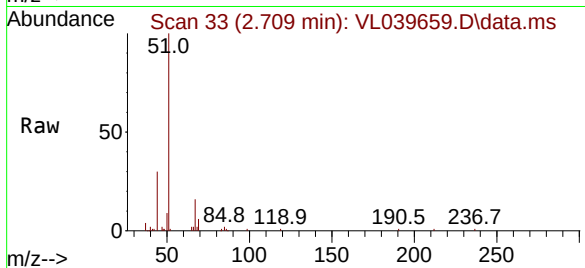
Tgt Ion: 85 Resp: 27039
 Ion Ratio Lower Upper
 85 100
 87 29.3 26.7 40.1





#3
Chlorodifluoromethane
Concen: 0.659 ppbv
RT: 2.709 min Scan# 31
Delta R.T. 0.017 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

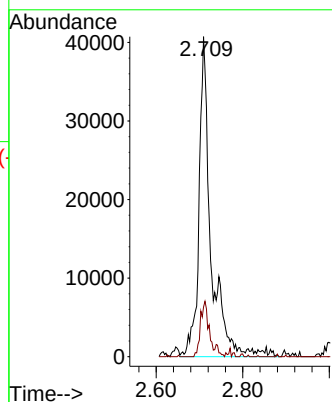
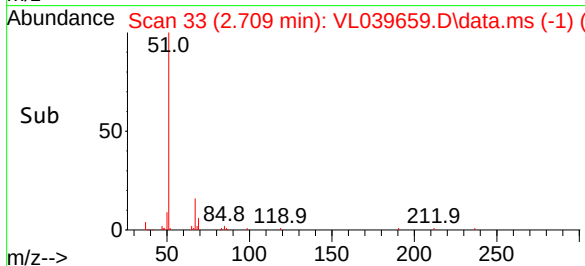
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion: 51 Resp: 78418
Ion Ratio Lower Upper
51 100
67 13.1 15.7 23.5

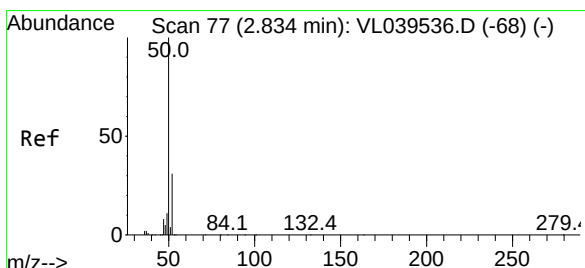
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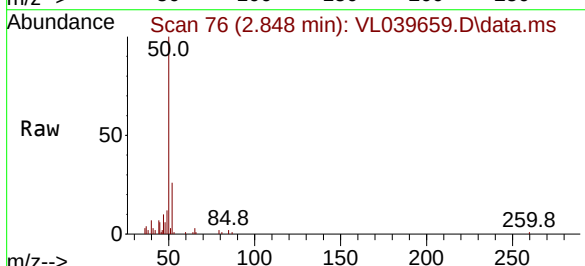


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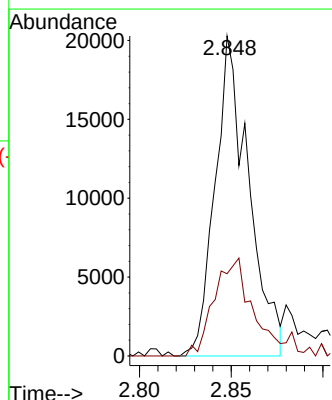
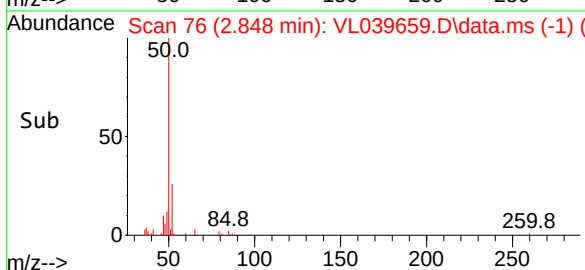
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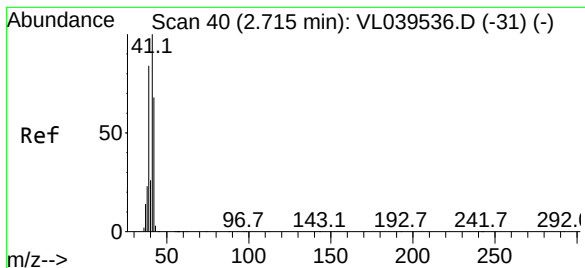


#4
Chloromethane
Concen: 0.359 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.013 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53



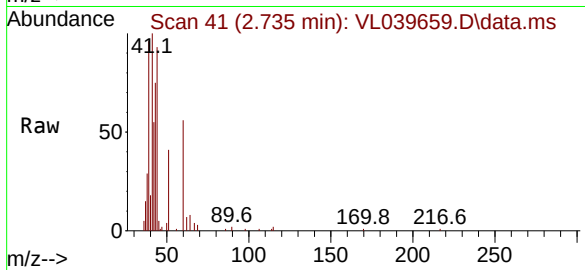
Tgt Ion: 50 Resp: 25772
Ion Ratio Lower Upper
50 100
52 25.7 26.5 39.7





#9
Propene
Concen: 0.600 ppbv m
RT: 2.735 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

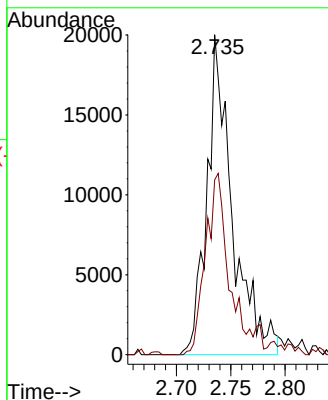
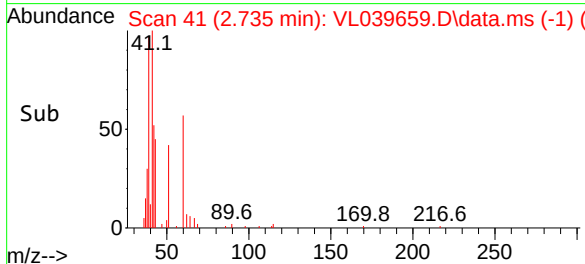
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MSVOA_L
ClientSampleId :
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Tgt Ion: 41 Resp: 3259
Ion Ratio Lower Upper
41 100
42 0.0 55.2 82.8

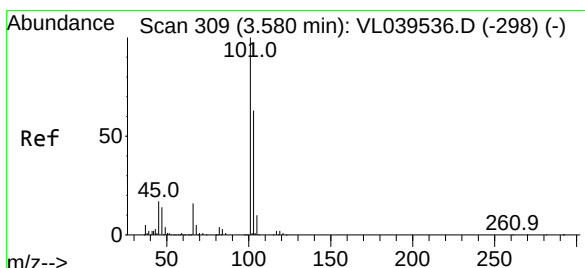
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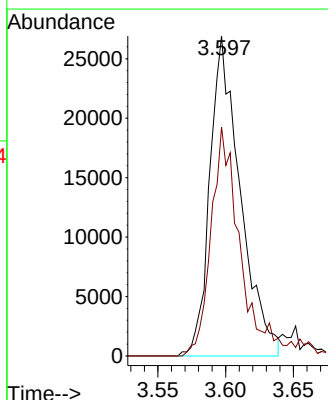
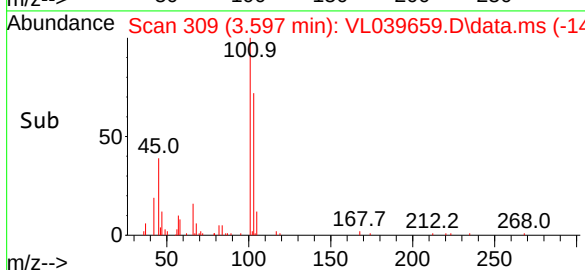
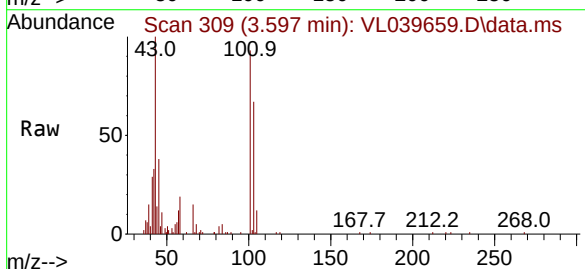
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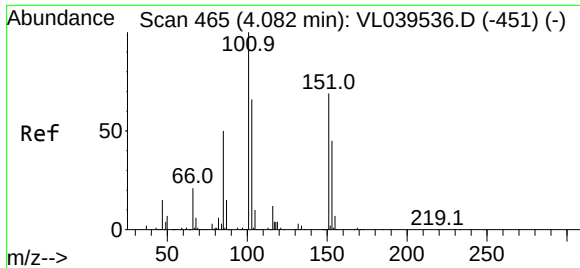
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#11
Trichlorofluoromethane
Concen: 0.291 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.017 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

Tgt Ion:101 Resp: 41929
Ion Ratio Lower Upper
101 100
103 71.5 51.8 77.8





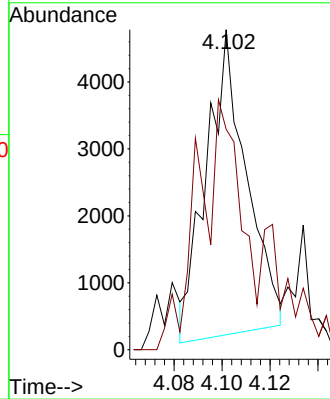
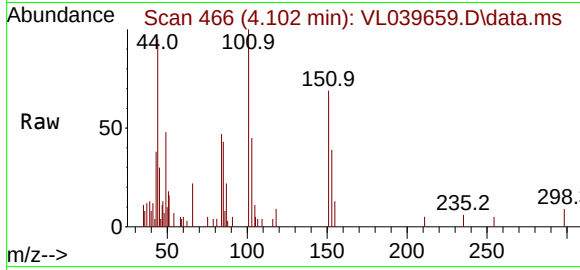
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.049 ppbv
RT: 4.102 min Scan# 40
Delta R.T. 0.020 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

Instrument :
MSVOA_L
ClientSampleId :
C0PG2

Tgt Ion:101 Resp: 5280
Ion Ratio Lower Upper
101 100
151 116.5 58.9 88.3

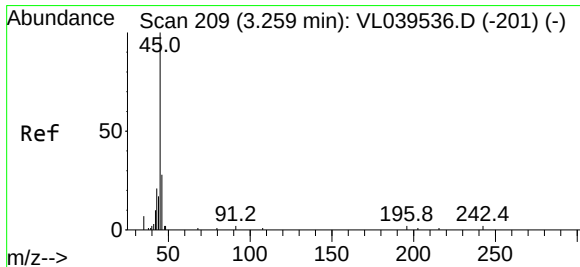
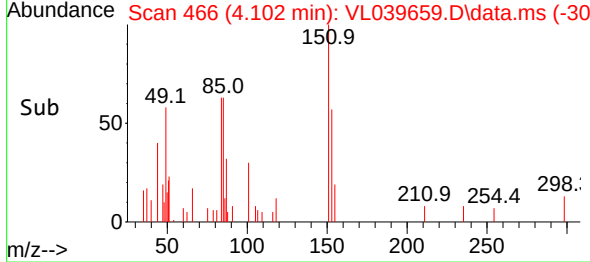
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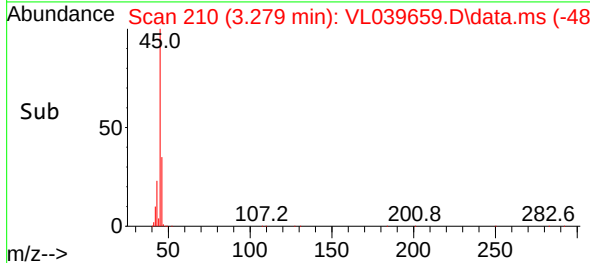
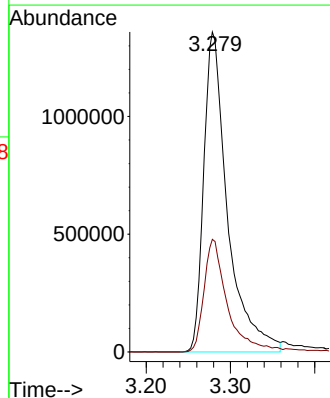
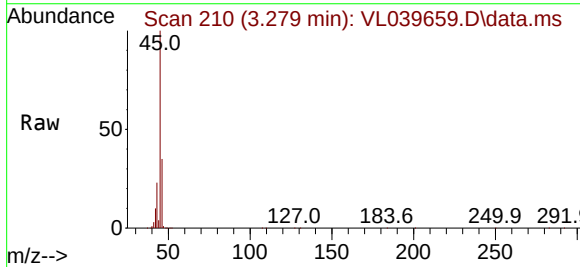
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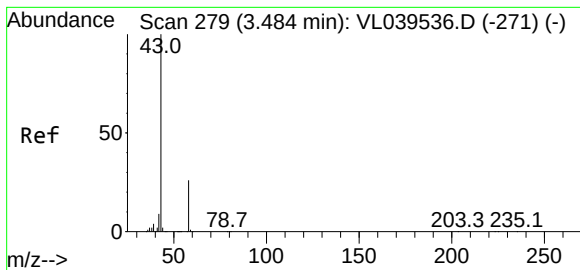
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#13
Ethanol
Concen: 646.060 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.020 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

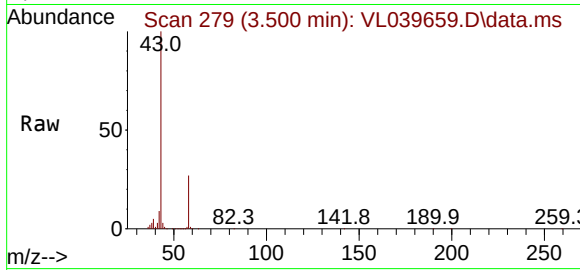
Tgt Ion: 45 Resp: 2673524
Ion Ratio Lower Upper
45 100
46 35.9 22.8 91.2





#15
Acetone
Concen: 23.076 ppbv
RT: 3.500 min Scan# 21
Delta R.T. 0.017 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

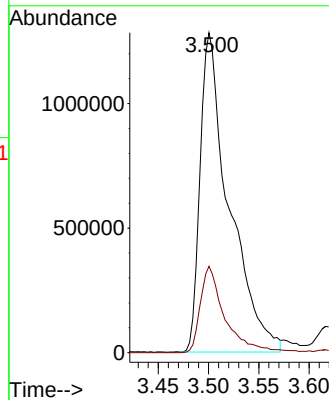
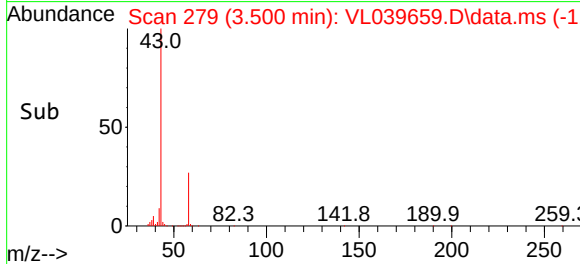
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion: 43 Resp: 2573030
Ion Ratio Lower Upper
43 100
58 22.9 21.0 31.6

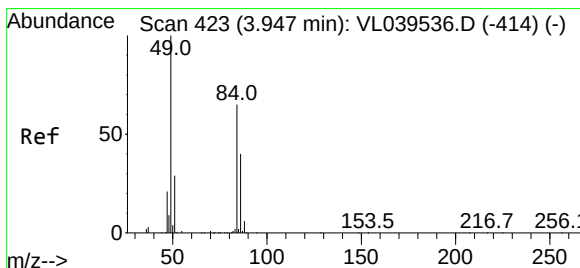
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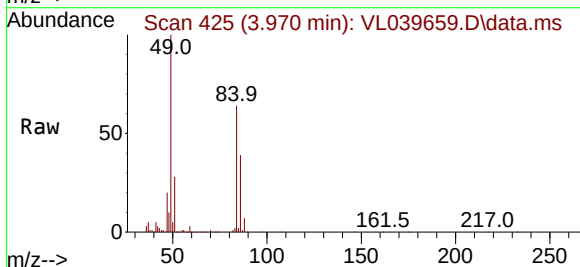


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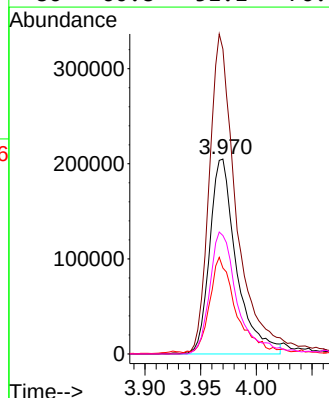
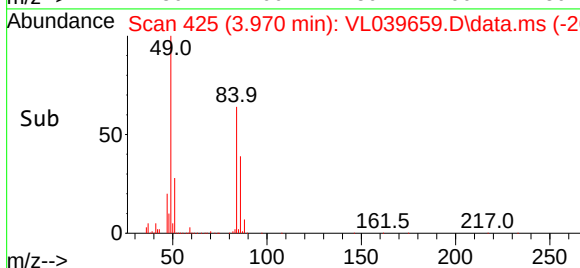
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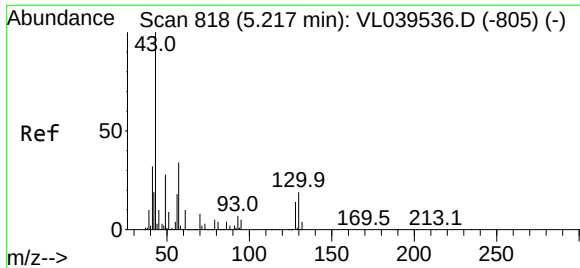


#20
Methylene Chloride
Concen: 6.657 ppbv
RT: 3.970 min Scan# 425
Delta R.T. 0.023 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53



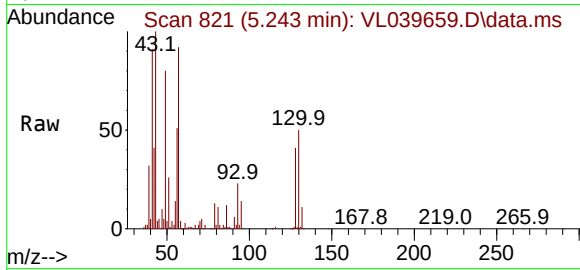
Tgt Ion: 84 Resp: 343204
Ion Ratio Lower Upper
84 100
49 156.2 123.1 184.7
51 43.0 34.4 51.6
86 60.8 51.1 76.7





#25
Ethyl Acetate
Concen: 1.811 ppbv
RT: 5.243 min Scan# 818
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

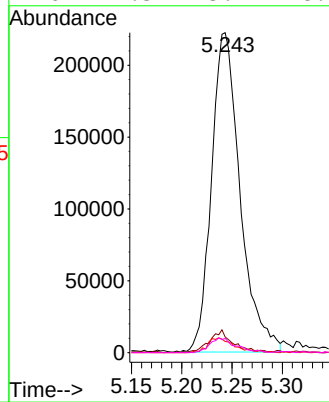
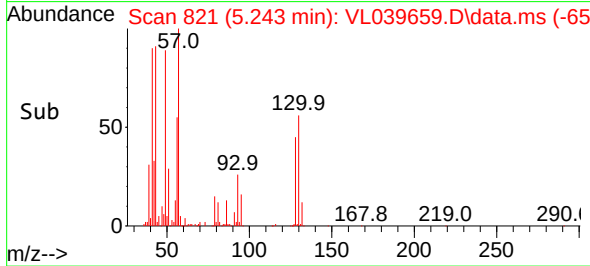
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion: 43 Resp: 440272
Ion Ratio Lower Upper
43 100
45 5.7 8.2 12.4
61 4.3 8.3 12.5
70 4.5 5.9 8.9

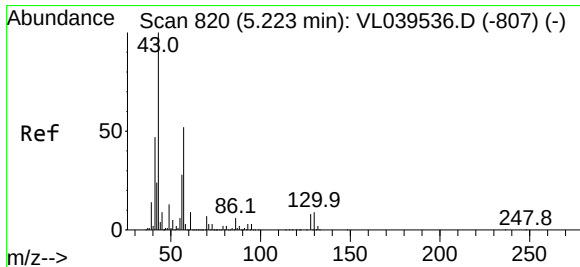
Manual Integrations
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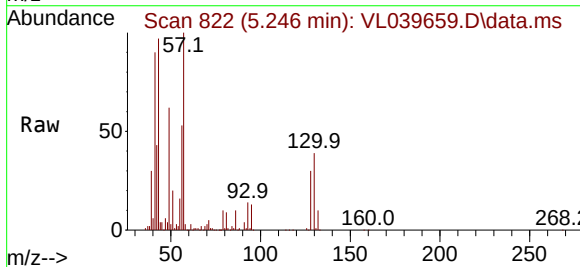


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Dadoda

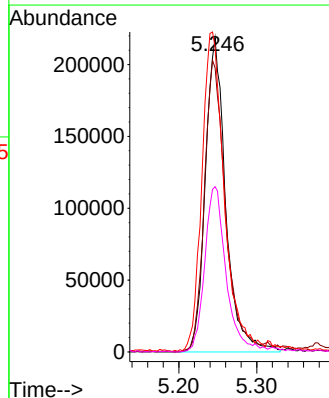
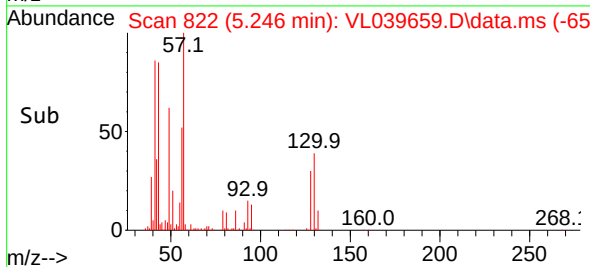
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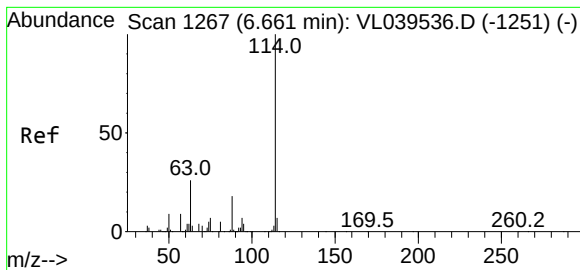


#26
Hexane
Concen: 3.853 ppbv
RT: 5.246 min Scan# 822
Delta R.T. 0.023 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53



Tgt Ion: 57 Resp: 397569
Ion Ratio Lower Upper
57 100
41 98.4 76.9 115.3
43 115.4 191.0 286.6
56 56.3 43.2 64.8





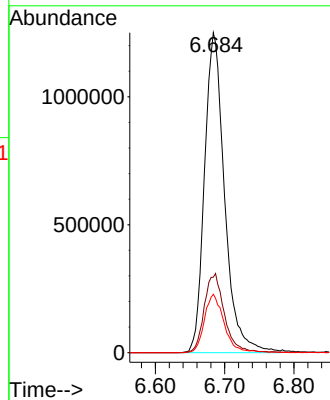
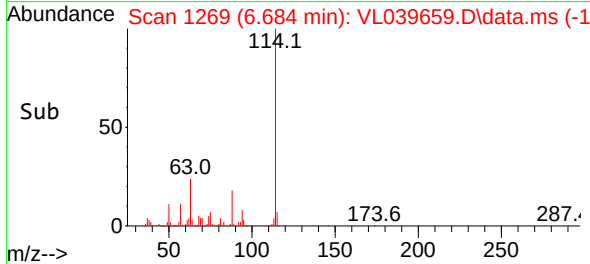
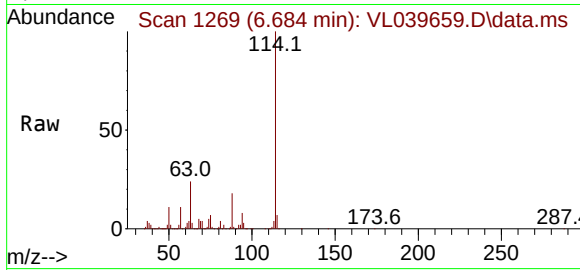
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.684 min Scan# 114
Delta R.T. 0.023 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

Instrument :
MSVOA_L
ClientSampleId :
C0PG2

Tgt Ion:114 Resp: 251306
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.4
88 18.1 14.5 21.7

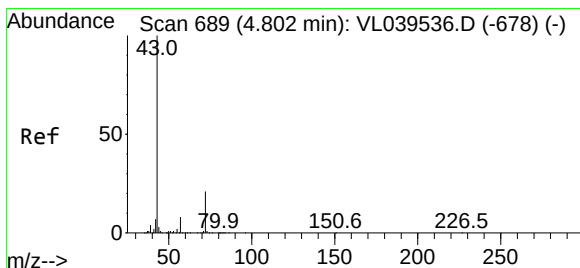
Manual Integrations
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Yesilyurt



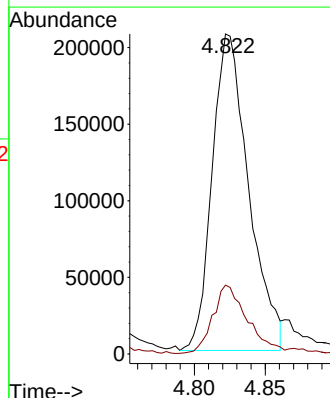
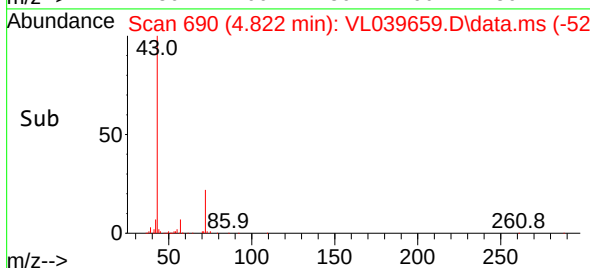
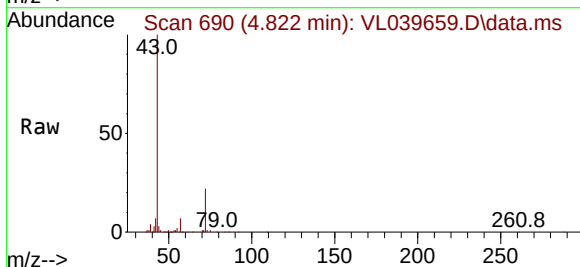
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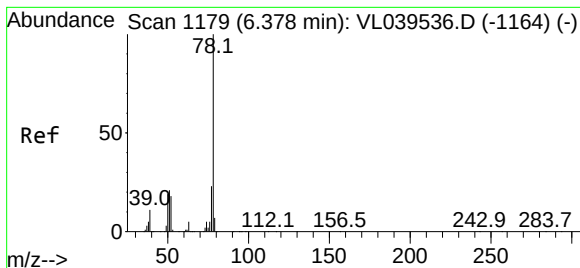
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#34
2-Butanone
Concen: 3.004 ppbv
RT: 4.822 min Scan# 690
Delta R.T. 0.020 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

Tgt Ion: 43 Resp: 370848
Ion Ratio Lower Upper
43 100
72 22.0 17.9 26.9





#36

Benzene

Concen: 0.350 ppbv

RT: 6.394 min Scan# 1179

Delta R.T. 0.017 min

Lab File: VL039659.D

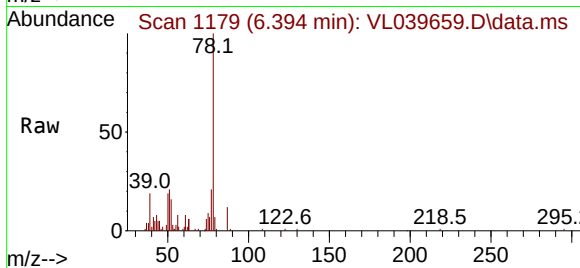
Acq: 22 Sep 2022 6:53

Instrument :

MSVOA_L

ClientSampleId :

C0PG2

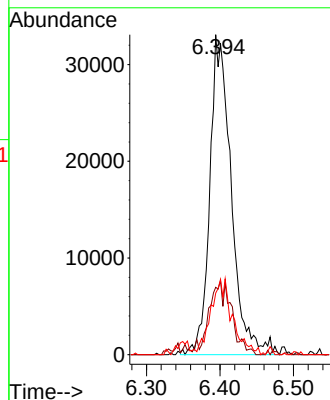
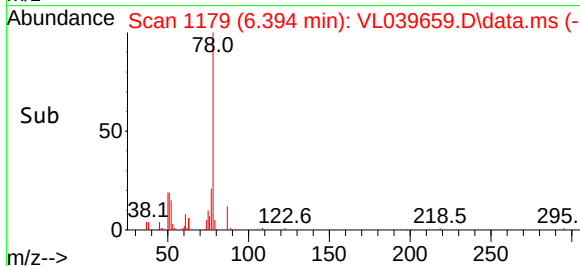


Tgt Ion: 78 Resp: 67154

Ion	Ratio	Lower	Upper
78	100		
77	21.0	20.3	30.5
50	19.2	15.5	23.3

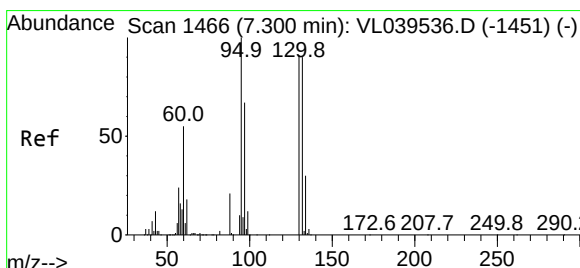
Manual Integrations
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Reviewed By :Semsettin
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#38

Trichloroethene

Concen: 9.810 ppbv

RT: 7.320 min Scan# 1467

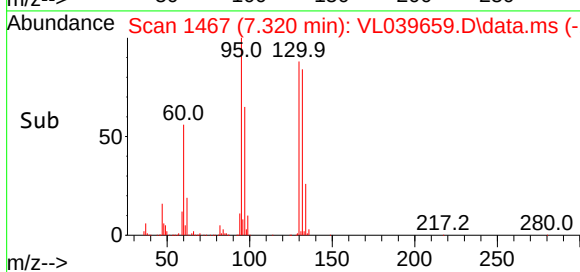
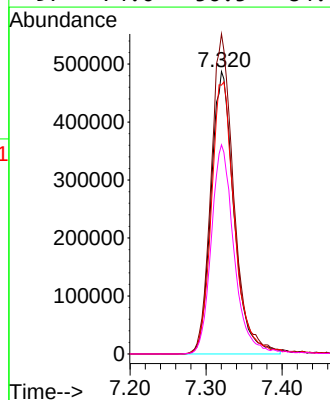
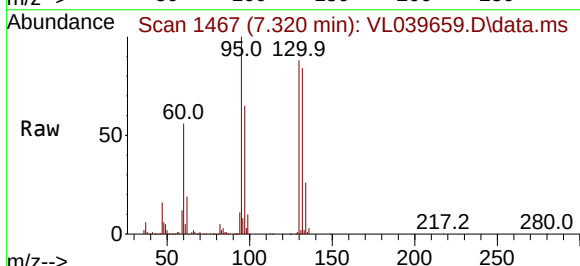
Delta R.T. 0.020 min

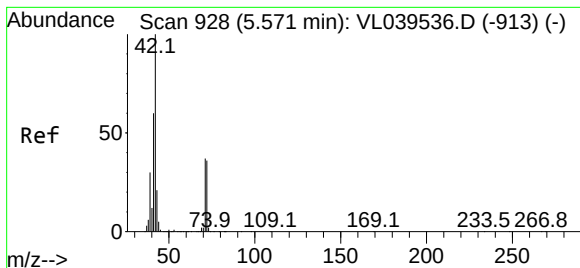
Lab File: VL039659.D

Acq: 22 Sep 2022 6:53

Tgt Ion:130 Resp: 1018611

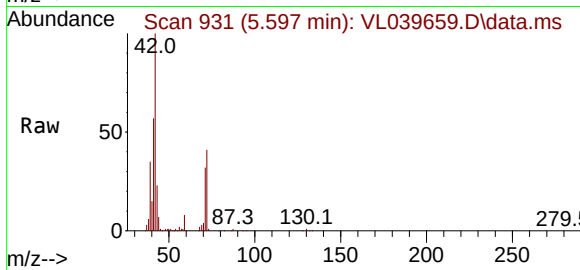
Ion	Ratio	Lower	Upper
130	100		
95	113.2	87.3	130.9
132	95.2	76.7	115.1
97	74.0	56.5	84.7





#41
Tetrahydrofuran
Concen: 2.296 ppbv
RT: 5.597 min Scan# 91
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

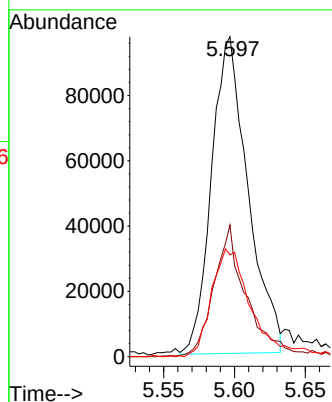
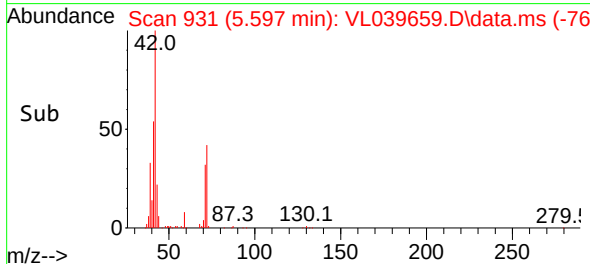
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion: 42 Resp: 173880
Ion Ratio Lower Upper
42 100
72 38.4 31.8 47.8
71 38.3 31.8 47.8

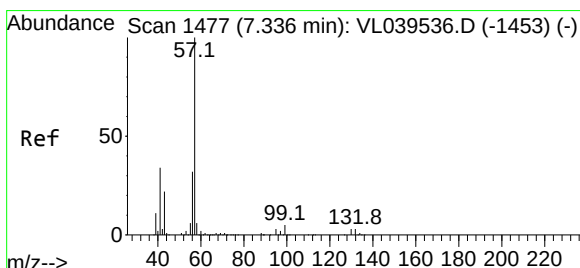
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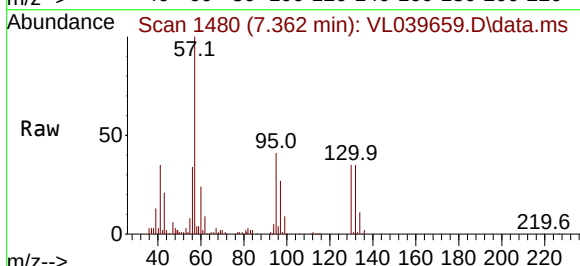


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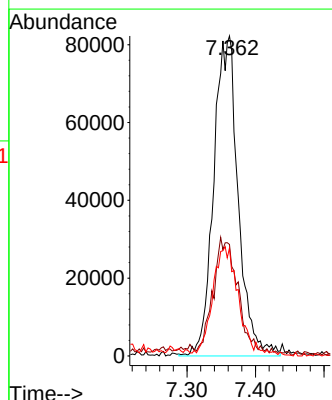
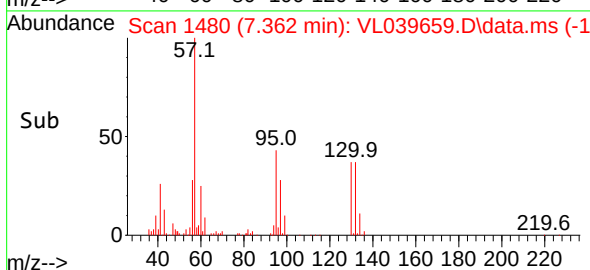
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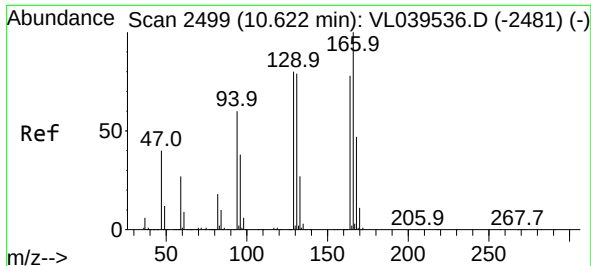


#44
2,2,4-Trimethylpentane
Concen: 0.619 ppbv m
RT: 7.362 min Scan# 1480
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53



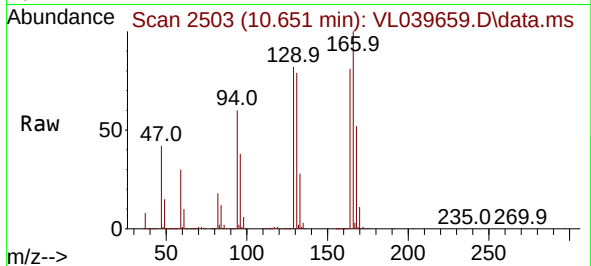
Tgt Ion: 57 Resp: 205001
Ion Ratio Lower Upper
57 100
41 0.0 27.4 41.2#
56 0.0 24.5 36.7#





#52
Tetrachloroethene
Concen: 92.501 ppbv
RT: 10.651 min Scan# 21
Delta R.T. 0.030 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

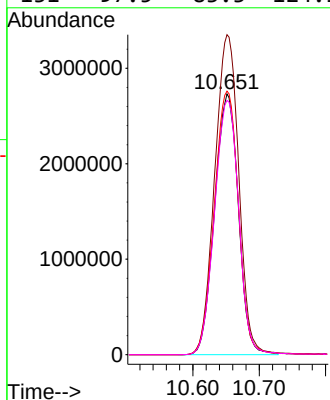
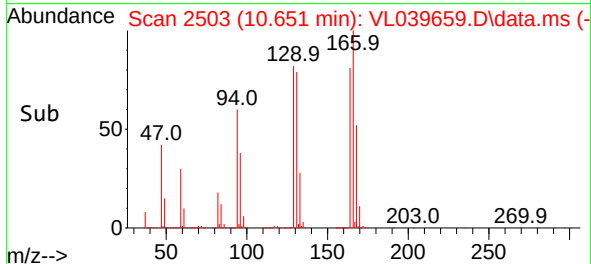
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion:164 Resp: 6780304
Ion Ratio Lower Upper
164 100
166 122.7 102.2 153.2
129 101.1 85.8 128.8
131 97.5 83.3 124.9

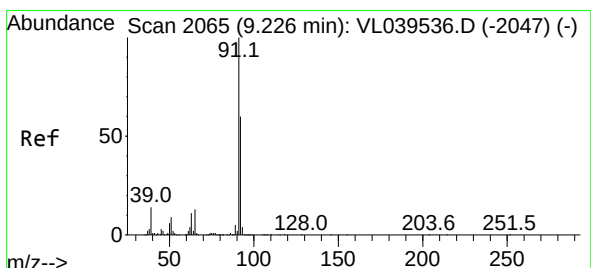
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Reviewed By :Semsettin
Yesilyurt



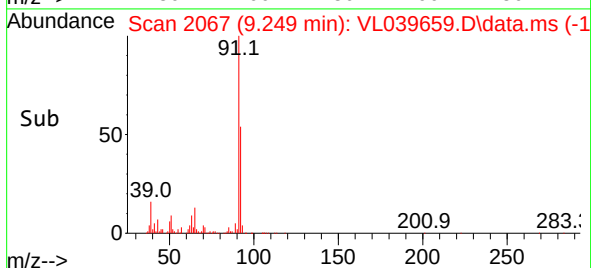
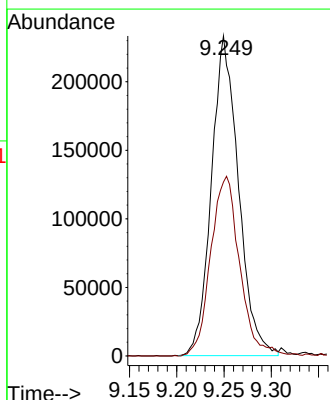
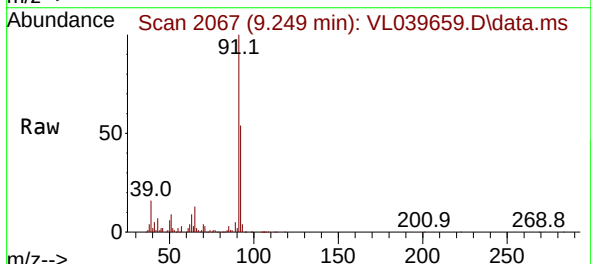
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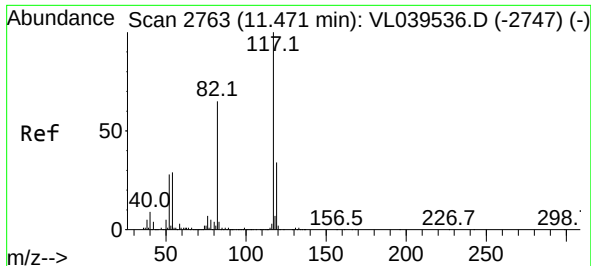
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#53
Toluene
Concen: 2.171 ppbv
RT: 9.249 min Scan# 2067
Delta R.T. 0.023 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

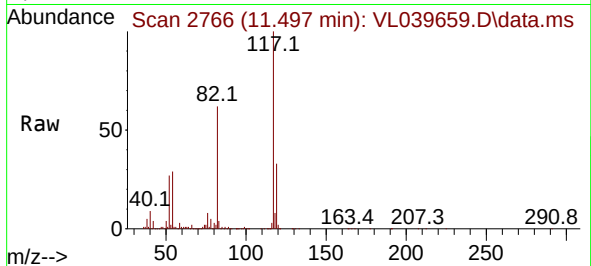
Tgt Ion: 91 Resp: 463863
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.497 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

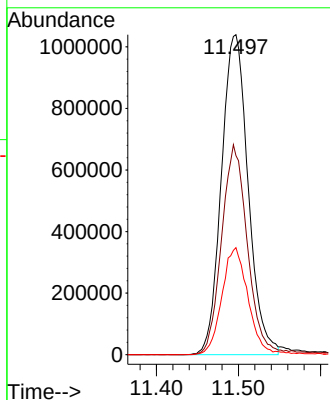
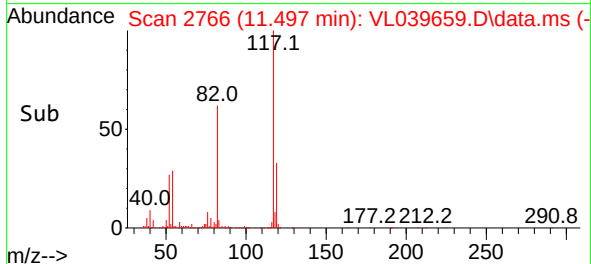
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion:117 Resp: 2356770
Ion Ratio Lower Upper
117 100
82 64.7 50.8 76.2
119 33.3 24.1 36.1

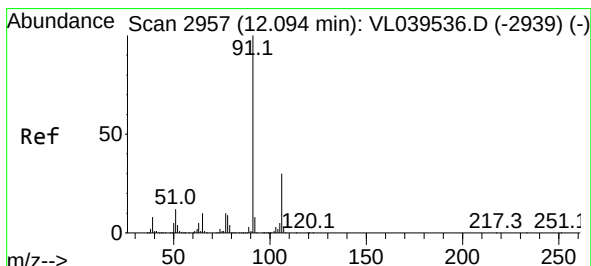
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Reviewed By :Semsettin
Yesilyurt



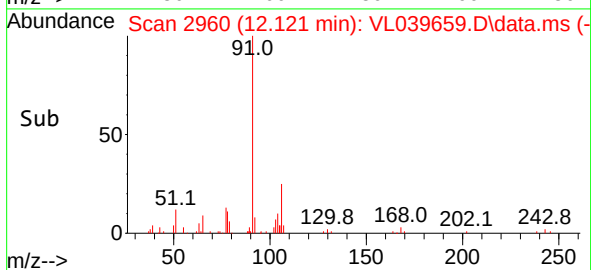
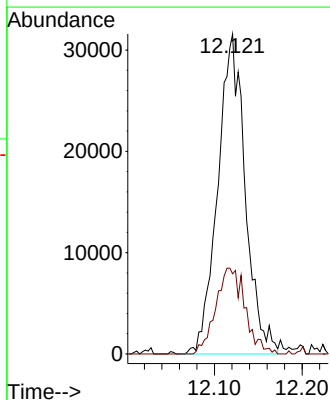
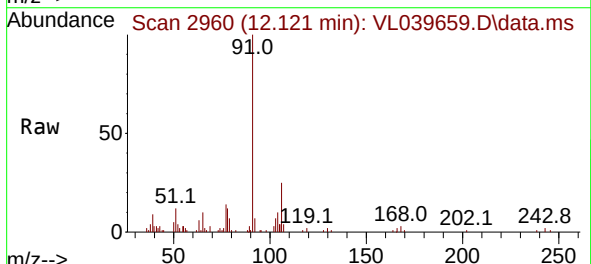
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Dadoda

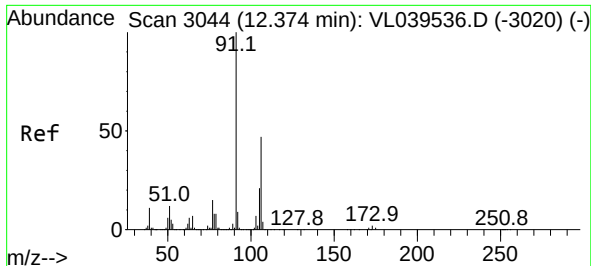
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#58
Ethyl Benzene
Concen: 0.253 ppbv m
RT: 12.121 min Scan# 2960
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

Tgt Ion: 91 Resp: 68726
Ion Ratio Lower Upper
91 100
106 25.1 25.4 38.0#





#59

m/p-Xylene

Concen: 1.054 ppbv m

RT: 12.375 min Scan# 3044

Delta R.T. 0.001 min

Lab File: VL039659.D

Acq: 22 Sep 2022 6:53

Instrument :

MSVOA_L

ClientSampleId :

C0PG2

Tgt Ion: 91 Resp: 25484

Ion Ratio Lower Upper

91 100

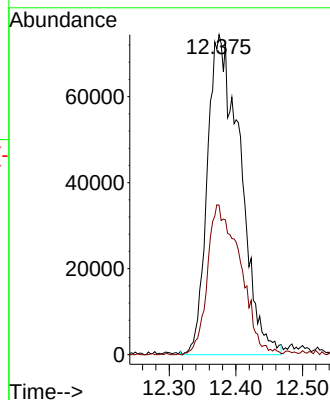
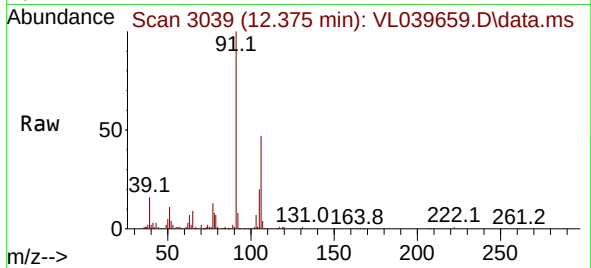
106 0.0 35.4 53.2

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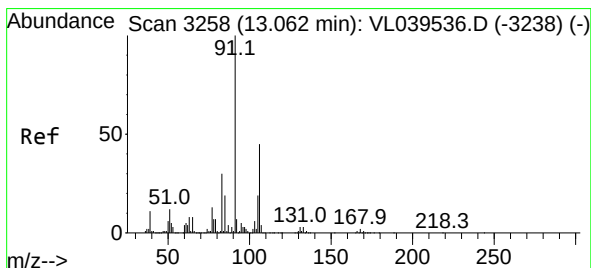
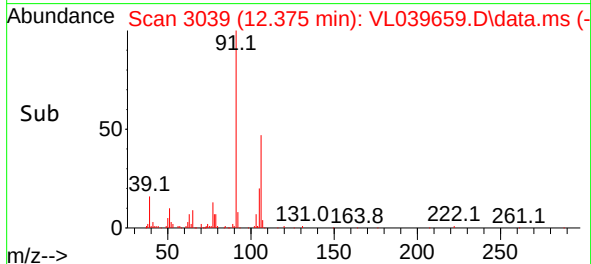


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#60

o-Xylene

Concen: 0.382 ppbv m

RT: 13.085 min Scan# 3260

Delta R.T. 0.023 min

Lab File: VL039659.D

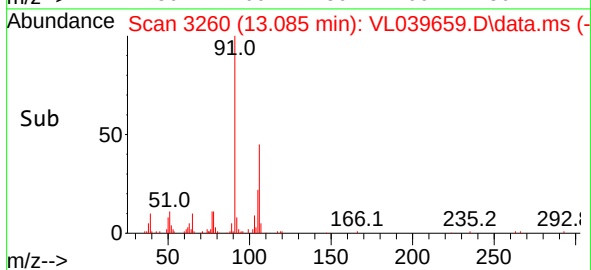
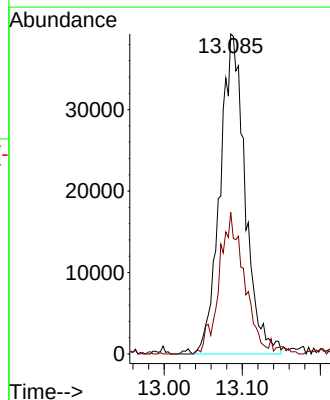
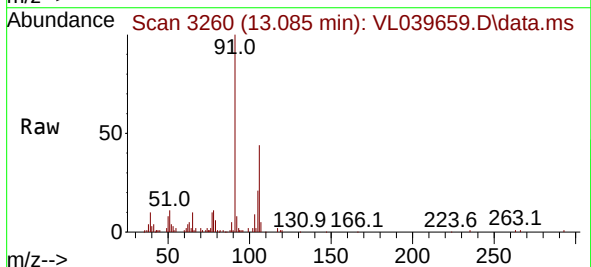
Acq: 22 Sep 2022 6:53

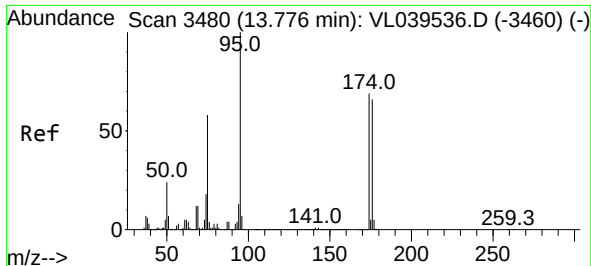
Tgt Ion: 91 Resp: 88138

Ion Ratio Lower Upper

91 100

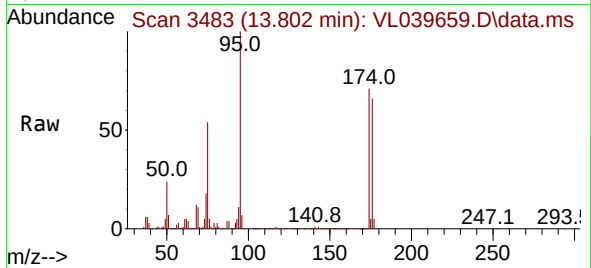
106 44.2 22.4 67.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.487 ppbv
RT: 13.802 min Scan# 3480
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53

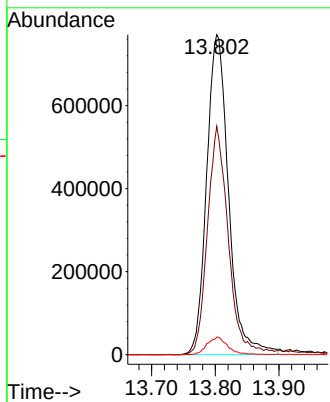
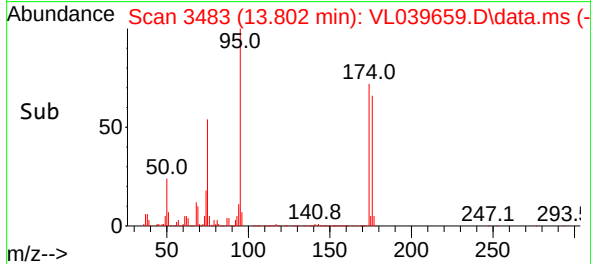
Instrument :
MSVOA_L
ClientSampleId :
C0PG2



Tgt Ion: 95 Resp: 1845028
Ion Ratio Lower Upper
95 100
174 70.1 55.9 83.9
175 5.2 4.2 6.4

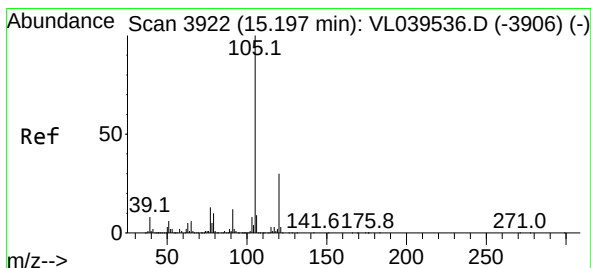
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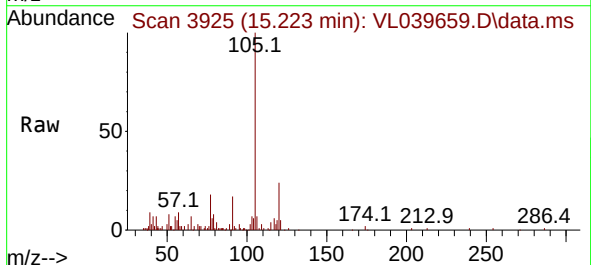


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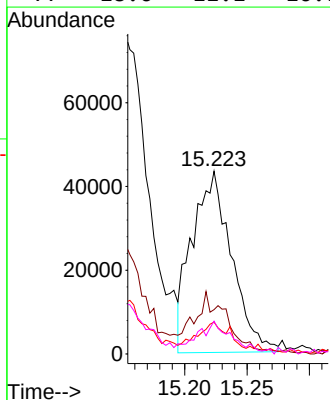
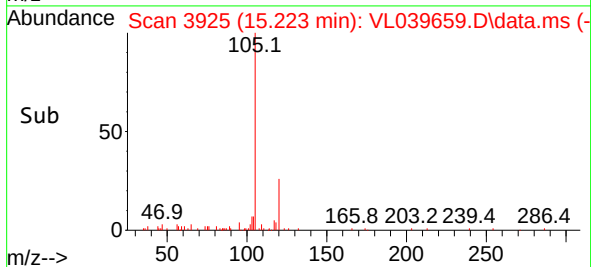
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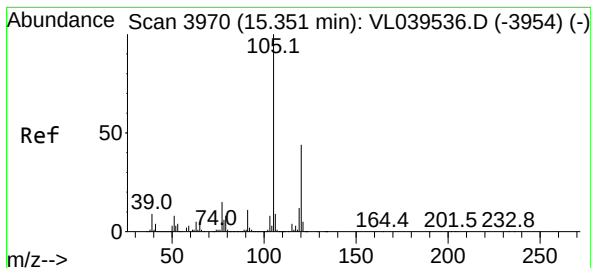


#72
4-Ethyltoluene
Concen: 0.362 ppbv
RT: 15.223 min Scan# 3925
Delta R.T. 0.026 min
Lab File: VL039659.D
Acq: 22 Sep 2022 6:53



Tgt Ion:105 Resp: 95355
Ion Ratio Lower Upper
105 100
120 30.3 24.2 36.2
91 15.2 10.2 15.4
77 18.6 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.320 ppbv

RT: 15.381 min Scan# 3974

Delta R.T. 0.030 min

Lab File: VL039659.D

Acq: 22 Sep 2022 6:53

Instrument :

MSVOA_L

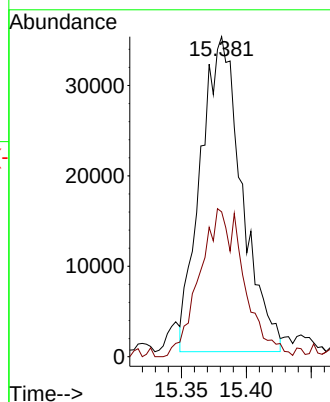
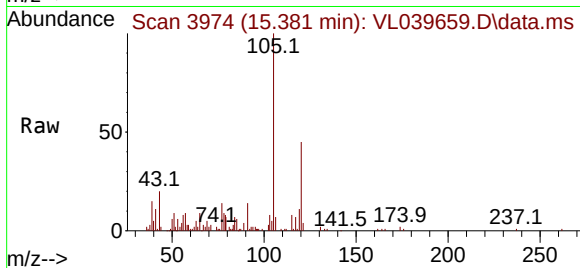
ClientSampleId :

C0PG2

Tgt Ion:105 Resp: 77239
 Ion Ratio Lower Upper
 105 100
 120 43.7 38.2 57.4

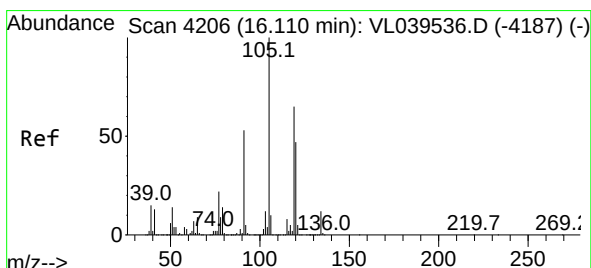
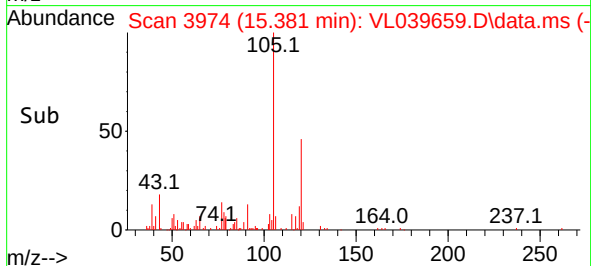
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 Yesilyurt



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#74

1,2,4-Trimethylbenzene

Concen: 1.001 ppbv

RT: 16.133 min Scan# 4208

Delta R.T. 0.023 min

Lab File: VL039659.D

Acq: 22 Sep 2022 6:53

Tgt Ion:105 Resp: 270784
 Ion Ratio Lower Upper
 105 100
 120 45.3 39.5 59.3
 91 9.9 39.2 58.8#
 77 13.2 17.2 25.8#

