

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
 Data File : VL040293.D
 Acq On : 16 Mar 2023 13:13
 Operator : SY/MD
 Sample : 01933-02DUP 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2023
 Supervised By : Mahesh Dadoda 03/17/2023

Quant Time: Mar 17 04:14:16 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

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

QLast Update : Wed Mar 15 16:14:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1069873	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2794843	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2562391	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2055683	9.580	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	36565	0.174	ppbv	97
3) Chlorodifluoromethane	2.674	51	37272	0.277	ppbv #	89
4) Chloromethane	2.809	50	9345	0.112	ppbv	97
9) Propene	2.700	41	15446	0.300	ppbv #	73
10) Heptane	7.578	43	126935	1.024	ppbv	98
13) Ethanol	3.234	45	2426556	641.944	ppbv	99
15) Acetone	3.462	43	1336677	10.262	ppbv	97
20) Methylene Chloride	3.928	84	1665123	30.388	ppbv	98
26) Hexane	5.208	57	961599	9.607	ppbv #	42
34) 2-Butanone	4.783	43	593318	4.301	ppbv	99
36) Benzene	6.365	78	159082	0.747	ppbv	99
41) Tetrahydrofuran	5.558	42	110202	1.384	ppbv	99
44) 2,2,4-Trimethylpentane	7.324	57	1155534	3.254	ppbv	92
50) 4-Methyl-2-Pentanone	8.192	43	112347	0.526	ppbv	97
52) Tetrachloroethene	10.616	164	78471m	1.218	ppbv	
53) Toluene	9.221	91	3131722	14.031	ppbv	98
58) Ethyl Benzene	12.089	91	856883	2.937	ppbv	98
59) m/p-Xylene	12.346	91	2745084	10.270	ppbv	94
60) o-Xylene	13.060	91	1115738	4.367	ppbv	99
62) Isopropylbenzene	14.027	105	73402	0.202	ppbv	98
64) n-propylbenzene	14.918	120	54044m	0.607	ppbv	
65) tert-Butylbenzene	16.111	119	114783	0.366	ppbv #	61
72) 4-Ethyltoluene	15.191	105	337041	1.206	ppbv	99
73) 1,3,5-Trimethylbenzene	15.352	105	274398	1.084	ppbv	96
74) 1,2,4-Trimethylbenzene	16.108	105	1097396	3.803	ppbv #	70

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

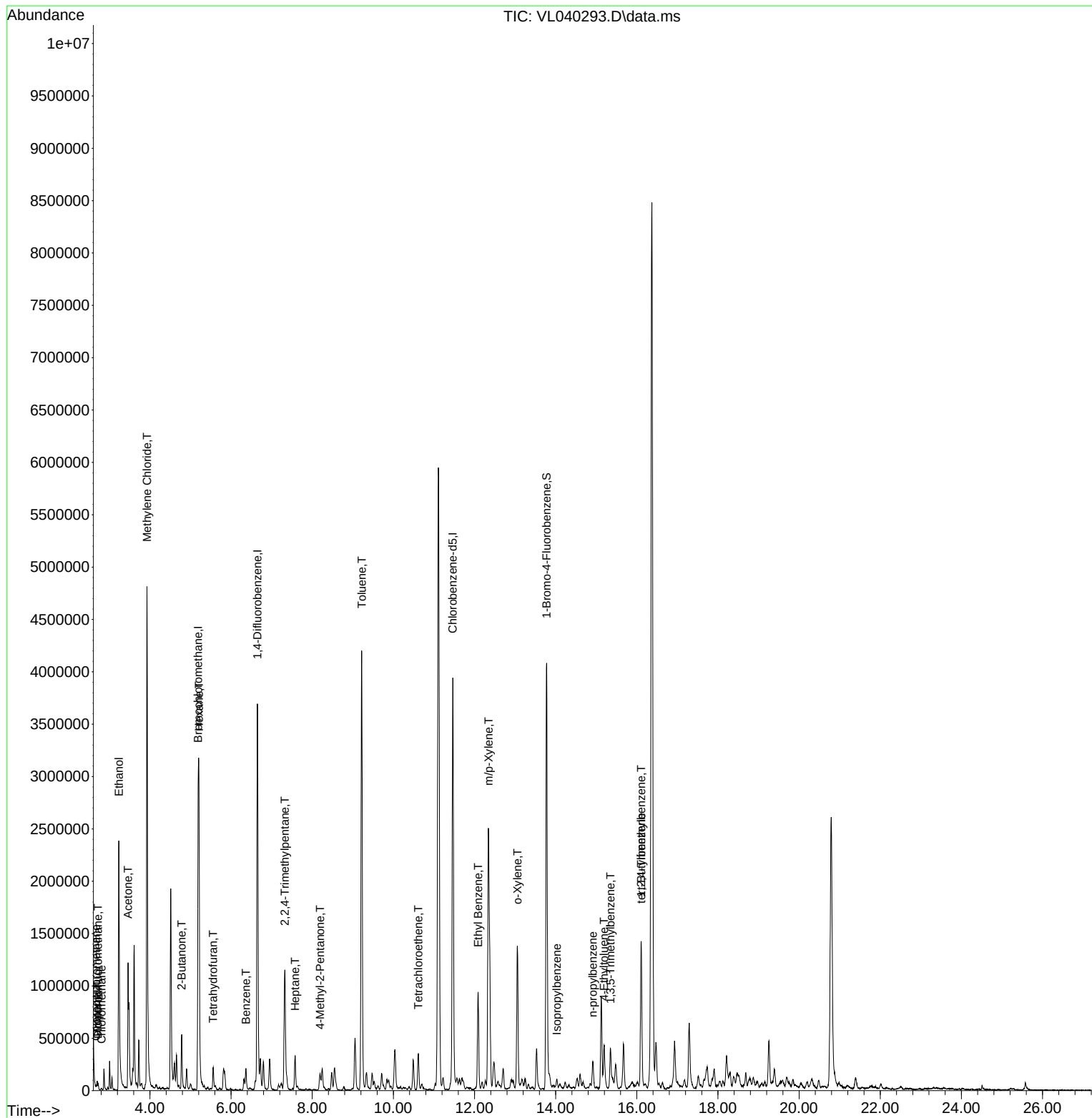
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
Data File : VL040293.D
Acq On : 16 Mar 2023 13:13
Operator : SY/MD
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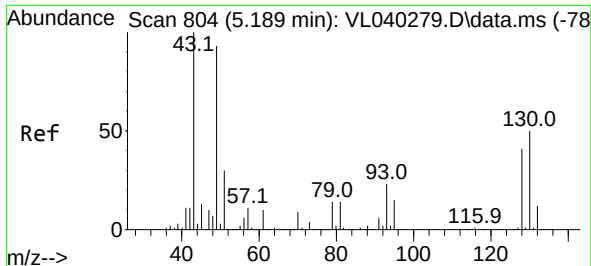
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Quant Time: Mar 17 04:14:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration

Manual Integrations
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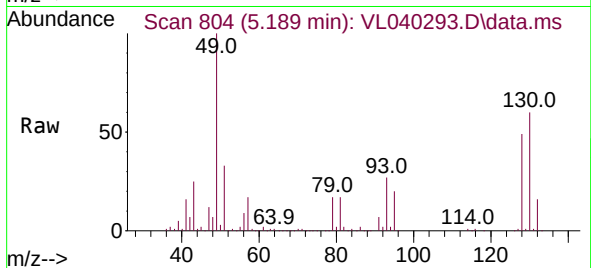
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.000 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

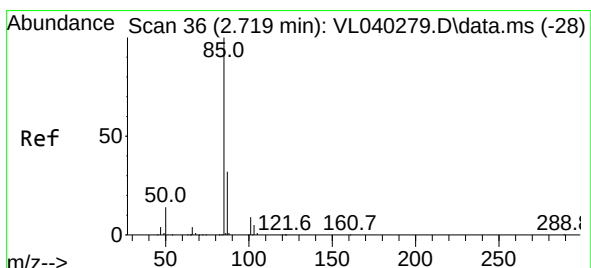
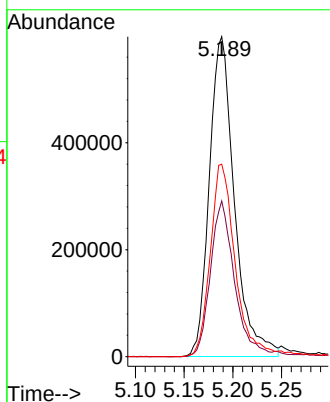
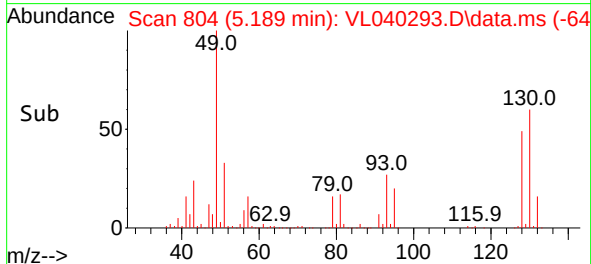
Instrument :
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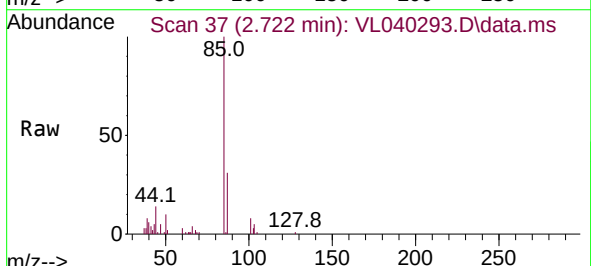
Tgt Ion: 49 Resp: 106987
Ion Ratio Lower Upper
49 100
128 48.8 22.4 67.3
130 61.5 28.7 86.1

Manual Integrations
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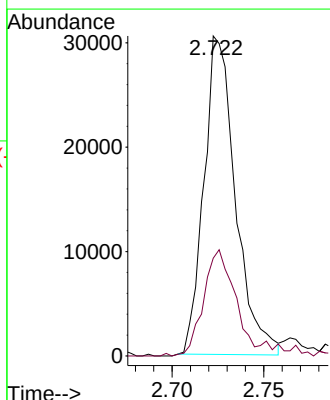
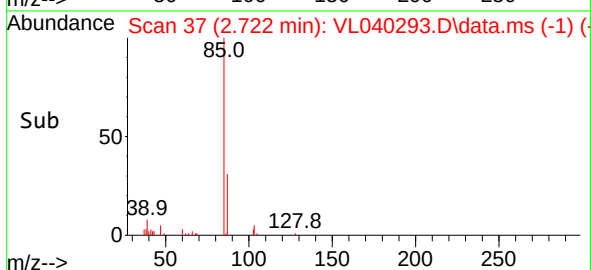
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Supervised By :Mahesh Dadoda 03/17/2023

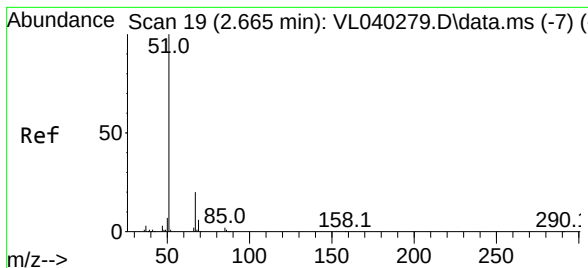


#2
Dichlorodifluoromethane
Concen: 0.174 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.003 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13



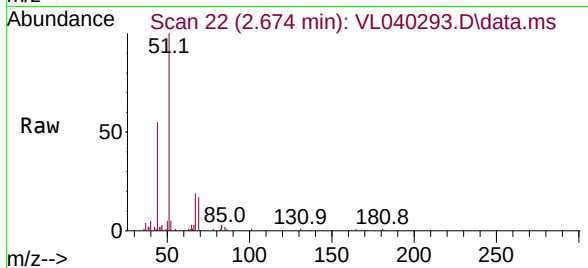
Tgt Ion: 85 Resp: 36565
Ion Ratio Lower Upper
85 100
87 30.2 25.5 38.3





#3
Chlorodifluoromethane
Concen: 0.277 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

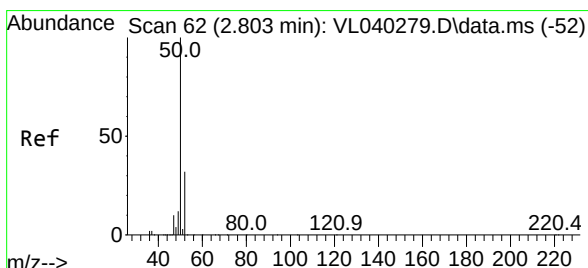
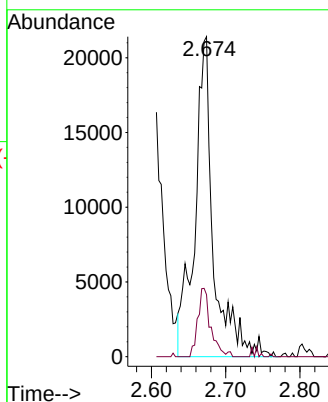
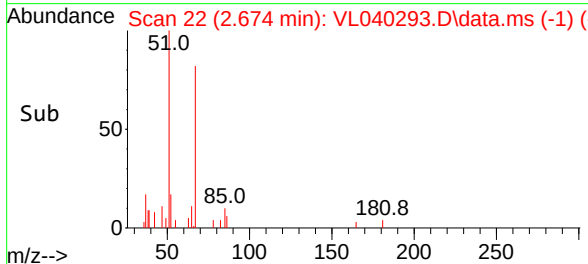
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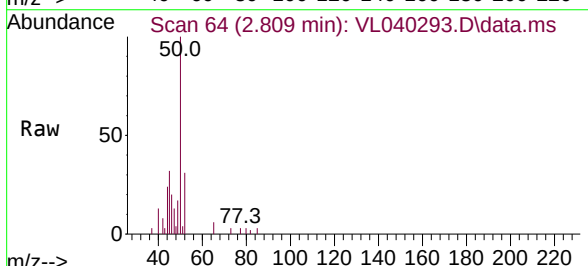
Tgt Ion: 51 Resp: 3727
Ion Ratio Lower Upper
51 100
67 14.8 16.0 24.0

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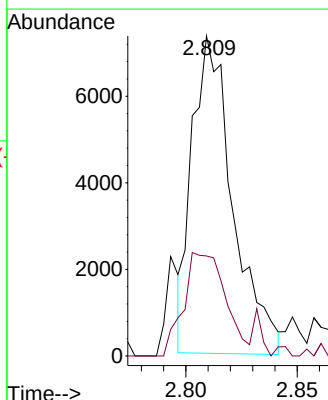
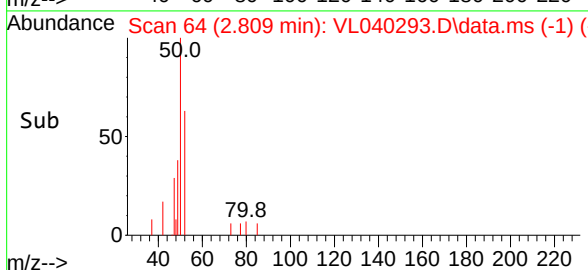
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

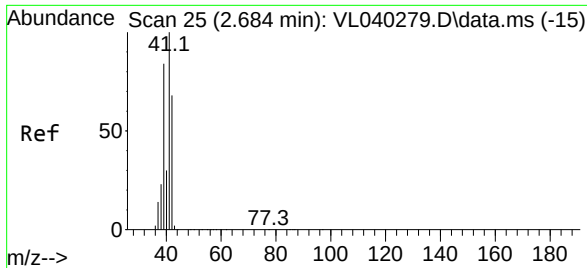


#4
Chloromethane
Concen: 0.112 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13



Tgt Ion: 50 Resp: 9345
Ion Ratio Lower Upper
50 100
52 30.7 25.9 38.9





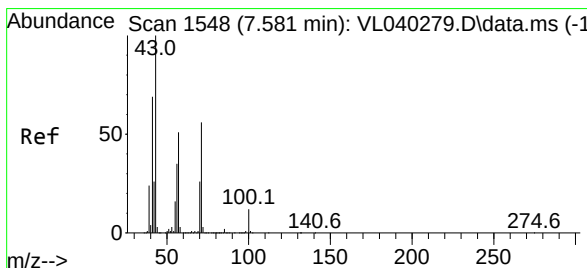
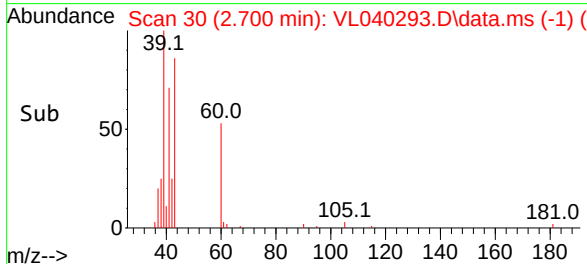
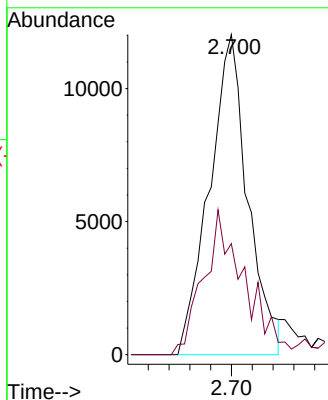
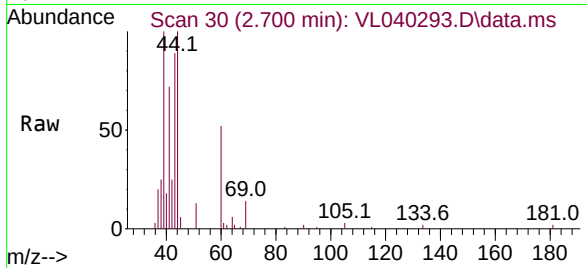
#9
 Propene
 Concen: 0.300 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. 0.016 min
 Lab File: VL040293.D
 Acq: 16 Mar 2023 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 41 Resp: 15440
 Ion Ratio Lower Upper
 41 100
 42 50.6 59.0 88.4

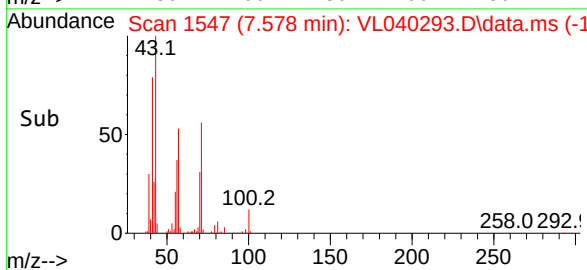
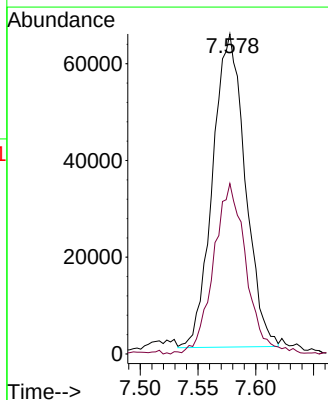
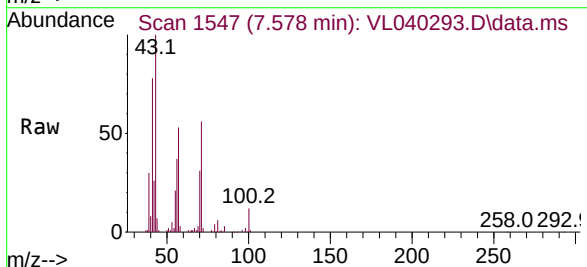
Manual Integrations
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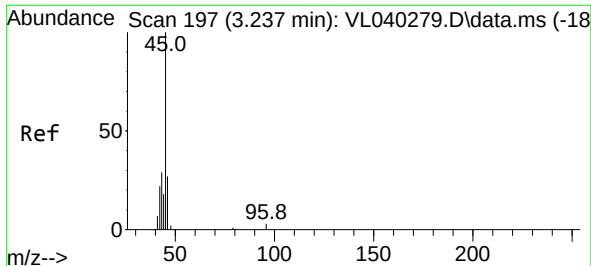
Reviewed By :Semsettin Yesilyurt 03/17/2023
 Supervised By :Mahesh Dadoda 03/17/2023



#10
 Heptane
 Concen: 1.024 ppbv
 RT: 7.578 min Scan# 1547
 Delta R.T. -0.003 min
 Lab File: VL040293.D
 Acq: 16 Mar 2023 13:13

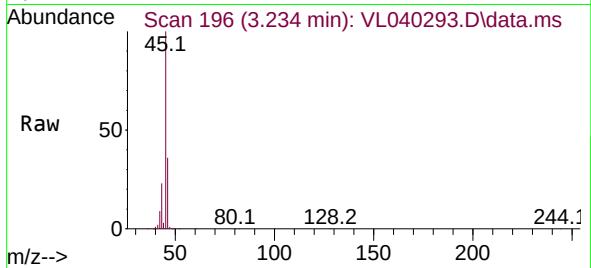
Tgt Ion: 43 Resp: 126935
 Ion Ratio Lower Upper
 43 100
 57 53.5 41.7 62.5





#13
Ethanol
Concen: 641.944 ppbv
RT: 3.234 min Scan# 196
Delta R.T. -0.003 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

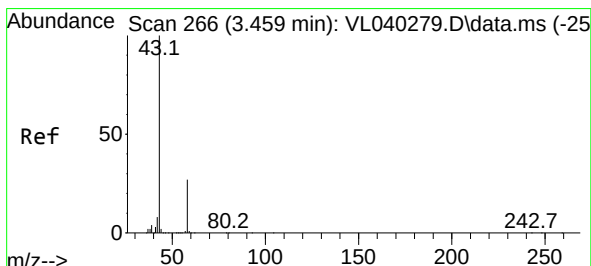
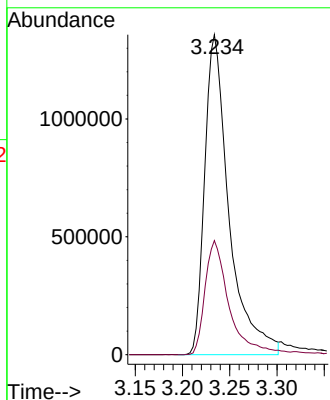
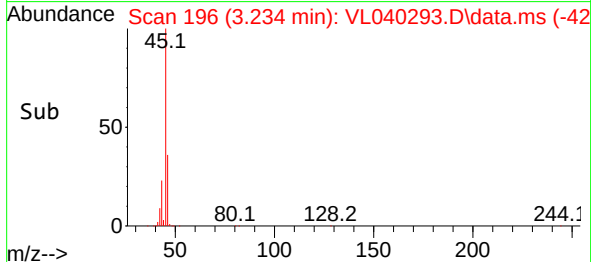
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP



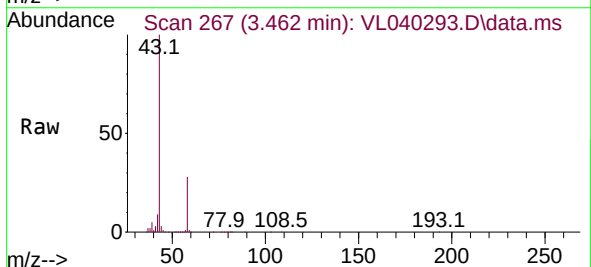
Tgt Ion: 45 Resp: 2426550
Ion Ratio Lower Upper
45 100
46 37.1 15.0 60.2

Manual Integrations
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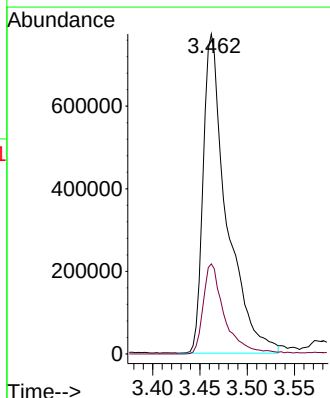
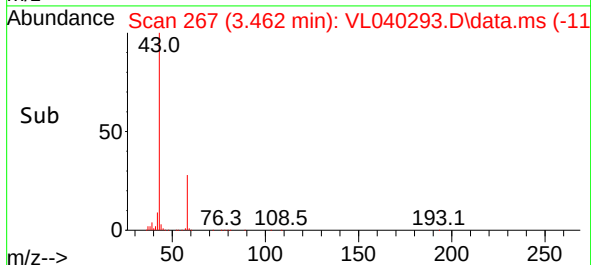
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

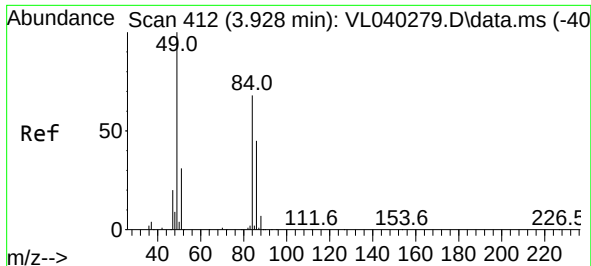


#15
Acetone
Concen: 10.262 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.003 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13



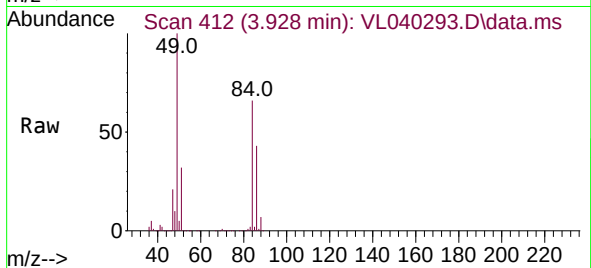
Tgt Ion: 43 Resp: 1336677
Ion Ratio Lower Upper
43 100
58 25.8 21.8 32.8





#20
Methylene Chloride
Concen: 30.388 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

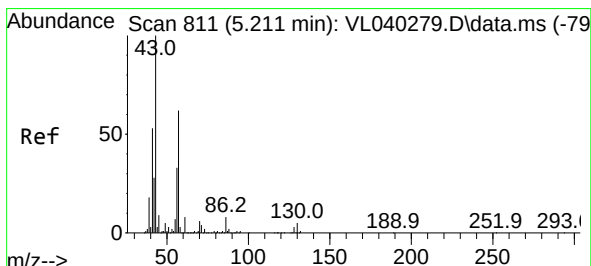
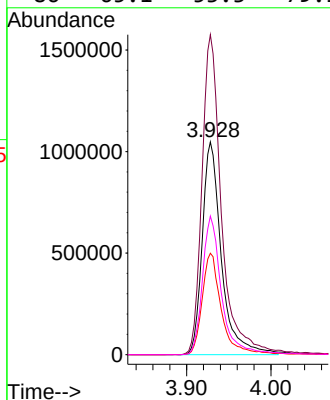
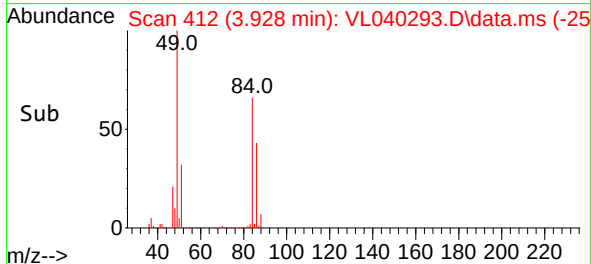
Instrument :
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Client Sample Id :
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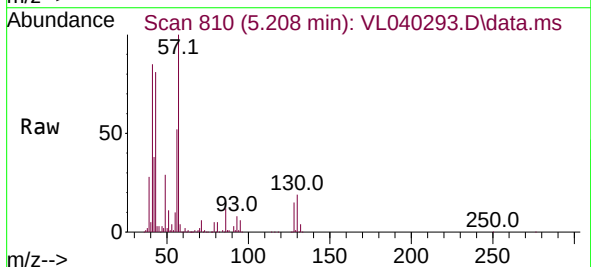
Tgt Ion: 84 Resp: 166512
Ion Ratio Lower Upper
84 100
49 150.4 117.5 176.3
51 47.6 36.9 55.3
86 65.1 53.3 79.9

Manual Integrations
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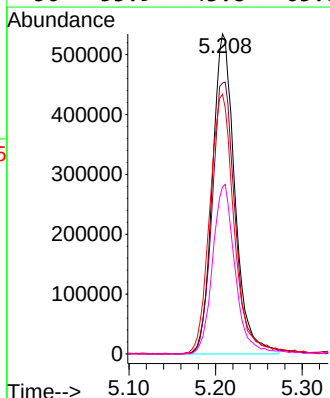
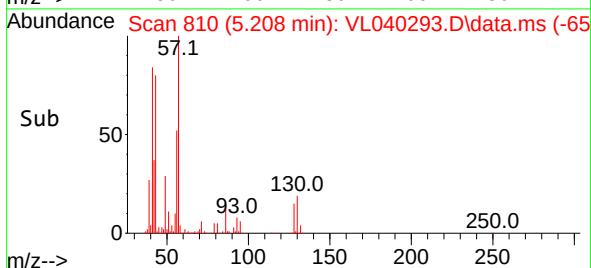
Reviewed By :Semsettin Yesilyurt 03/17/2023
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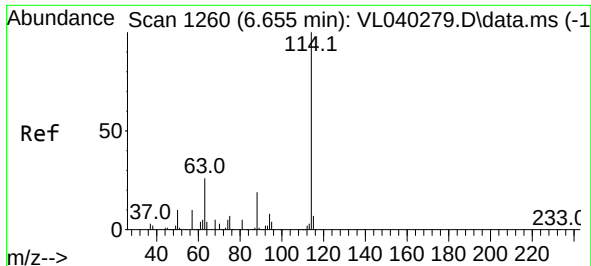


#26
Hexane
Concen: 9.607 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13



Tgt Ion: 57 Resp: 961599
Ion Ratio Lower Upper
57 100
41 88.5 73.5 110.3
43 89.2 196.3 294.5#
56 53.9 43.8 65.8





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Instrument :

MSVOA_L

ClientSampleId :

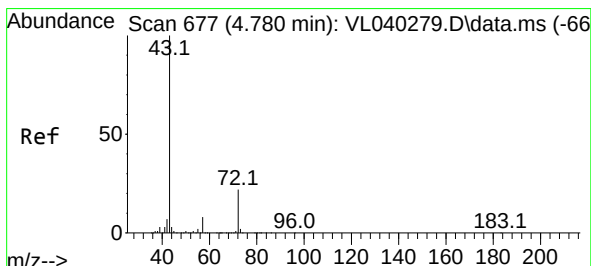
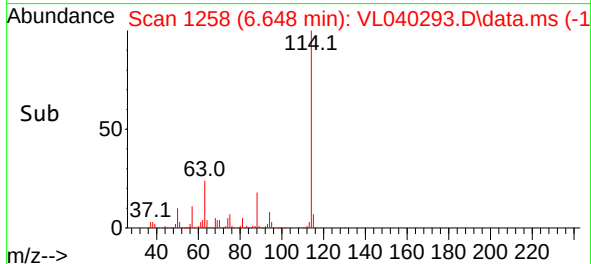
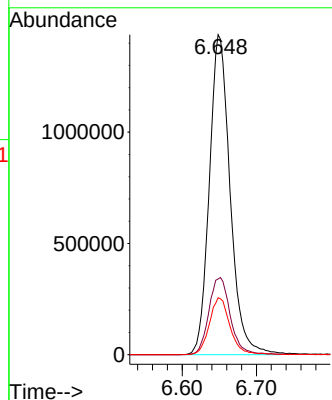
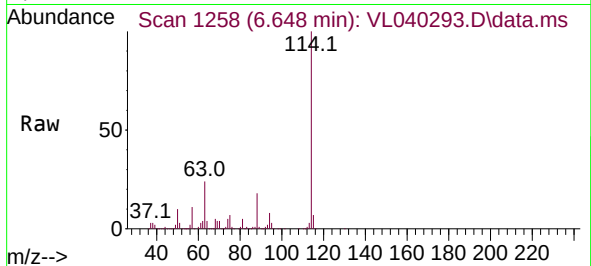
SSSG-2DUP

Tgt Ion:114 Resp: 279484
Ion Ratio Lower Upper
114 100
63 25.1 21.2 31.8
88 17.7 14.5 21.7

Manual Integrations

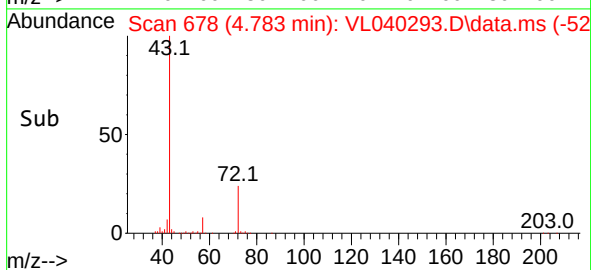
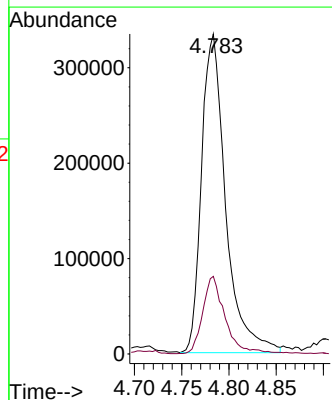
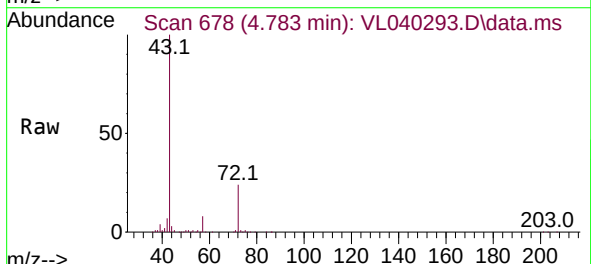
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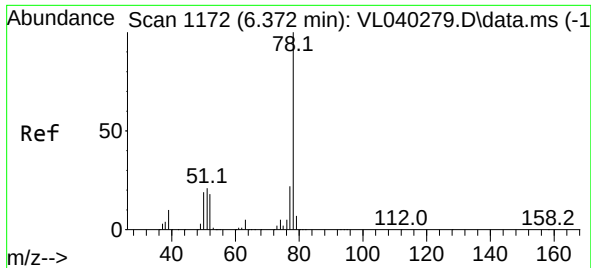
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#34
2-Butanone
Concen: 4.301 ppbv
RT: 4.783 min Scan# 678
Delta R.T. 0.003 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

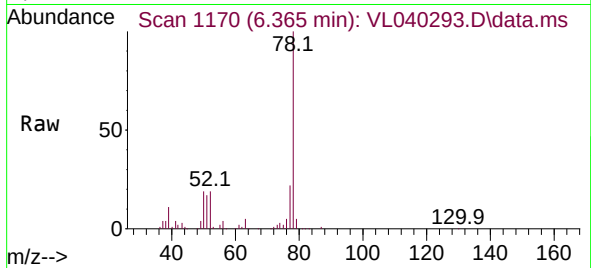
Tgt Ion: 43 Resp: 593318
Ion Ratio Lower Upper
43 100
72 22.6 18.3 27.5





#36
Benzene
Concen: 0.747 ppbv
RT: 6.365 min Scan# 1172
Delta R.T. -0.007 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

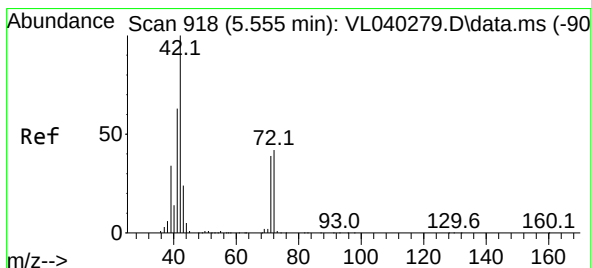
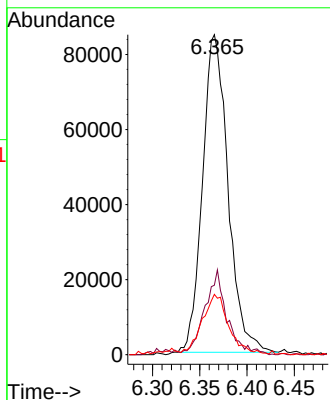
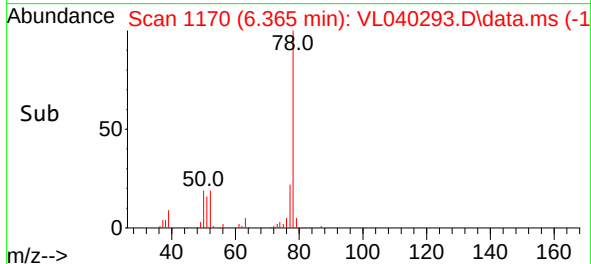
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Tgt Ion: 78 Resp: 15908
Ion Ratio Lower Upper
78 100
77 21.8 17.8 26.8
50 18.4 15.4 23.2

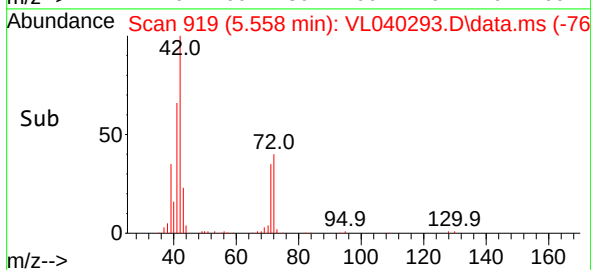
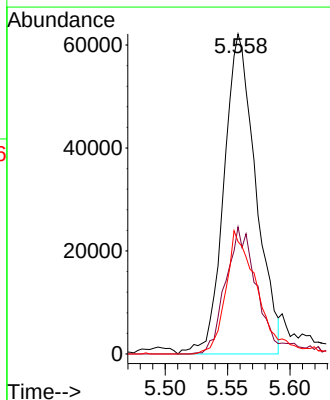
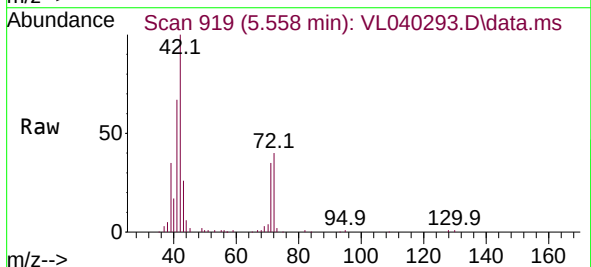
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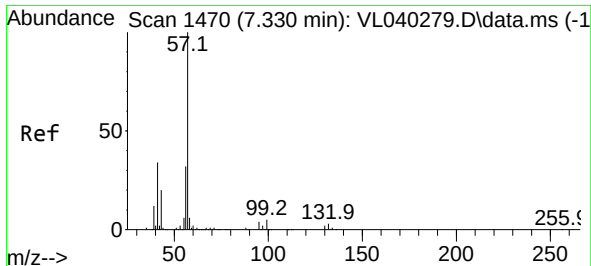
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#41
Tetrahydrofuran
Concen: 1.384 ppbv
RT: 5.558 min Scan# 919
Delta R.T. 0.003 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

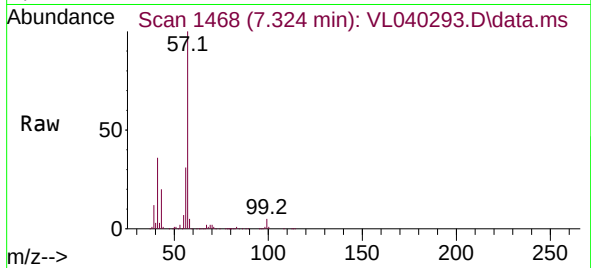
Tgt Ion: 42 Resp: 110202
Ion Ratio Lower Upper
42 100
72 41.4 32.6 49.0
71 39.1 31.0 46.4





#44
2,2,4-Trimethylpentane
Concen: 3.254 ppbv
RT: 7.324 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

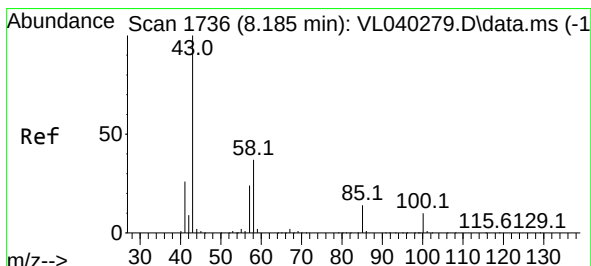
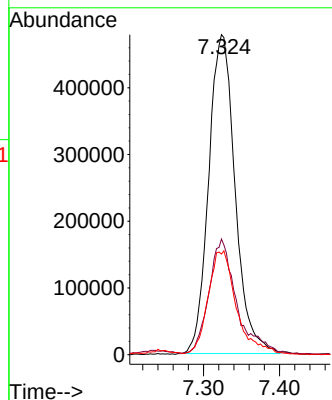
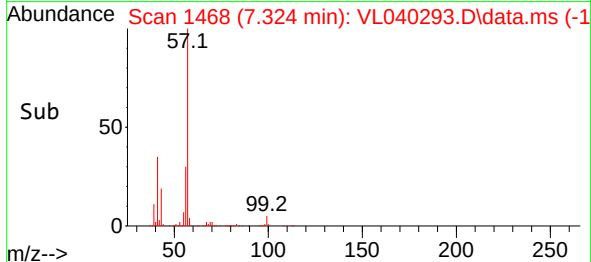
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP



Tgt Ion: 57 Resp: 1155534
Ion Ratio Lower Upper
57 100
41 38.4 26.8 40.2
56 35.2 25.0 37.6

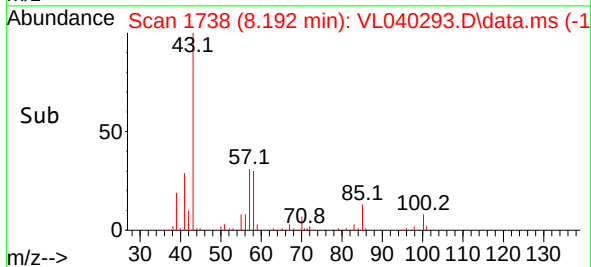
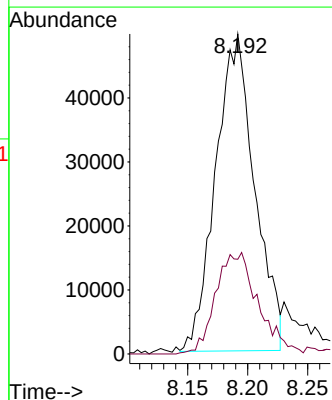
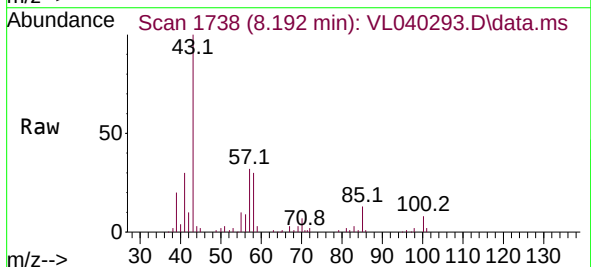
Manual Integrations
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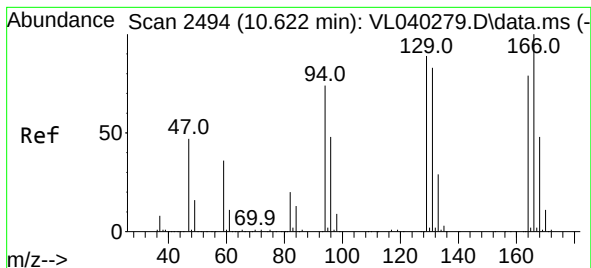
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#50
4-Methyl-2-Pentanone
Concen: 0.526 ppbv
RT: 8.192 min Scan# 1738
Delta R.T. 0.007 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

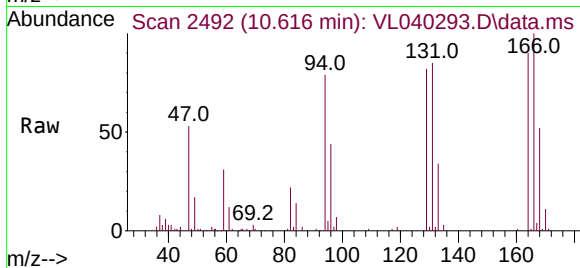
Tgt Ion: 43 Resp: 112347
Ion Ratio Lower Upper
43 100
58 34.6 29.2 43.8





#52
Tetrachloroethene
Concen: 1.218 ppbv m
RT: 10.616 min Scan# 2494
Delta R.T. -0.006 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

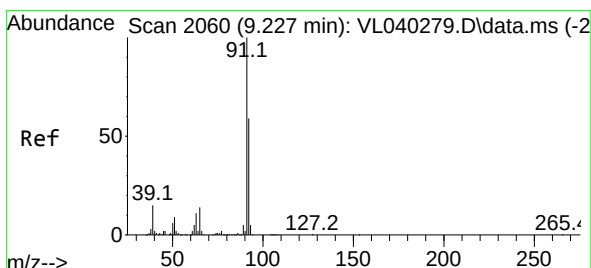
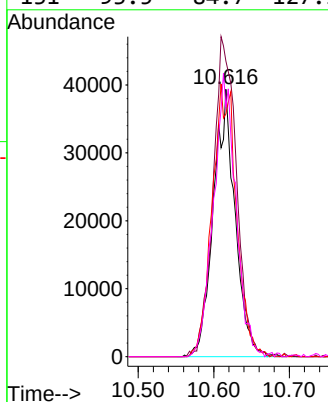
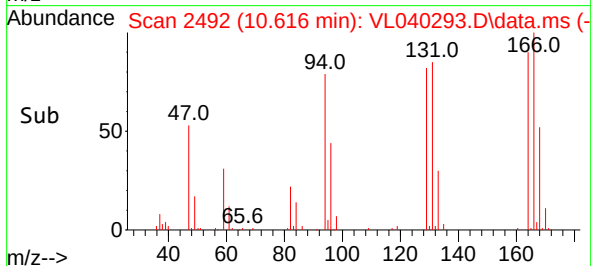
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP



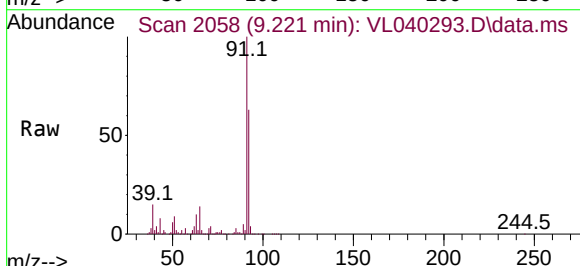
Tgt Ion:164 Resp: 7847
Ion Ratio Lower Upper
164 100
166 110.6 101.8 152.6
129 90.8 90.2 135.2
131 93.5 84.7 127.1

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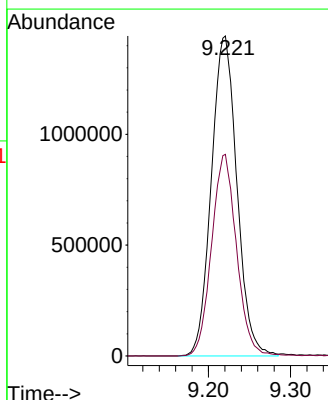
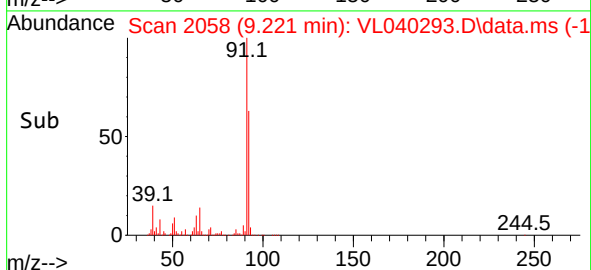
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

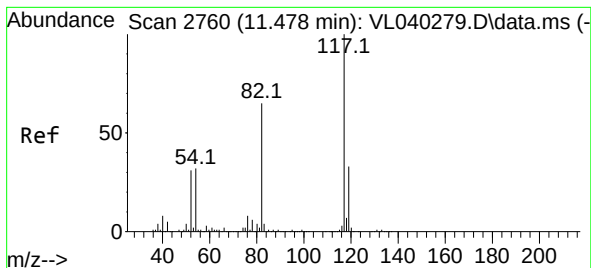


#53
Toluene
Concen: 14.031 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13



Tgt Ion: 91 Resp: 3131722
Ion Ratio Lower Upper
91 100
92 61.6 48.0 72.0





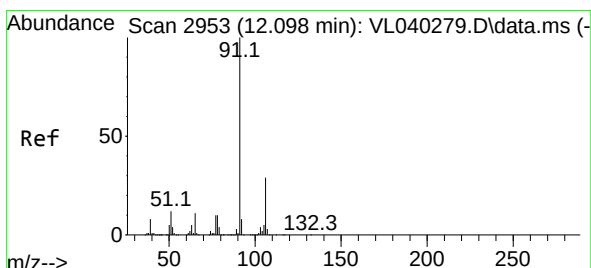
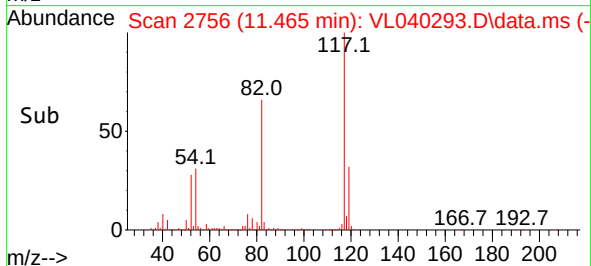
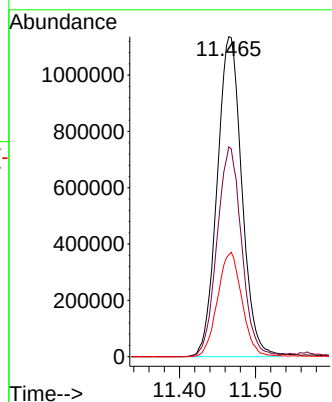
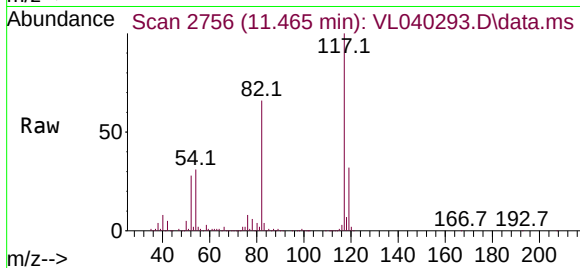
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tgt Ion:117 Resp: 256239
Ion Ratio Lower Upper
117 100
82 65.5 51.4 77.2
119 32.7 24.0 36.0

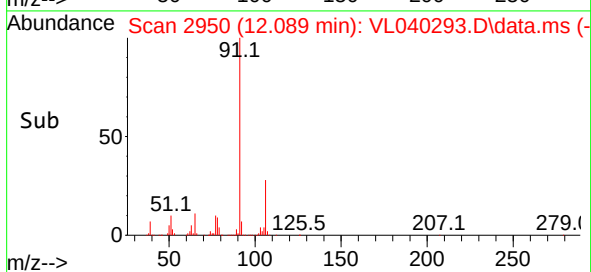
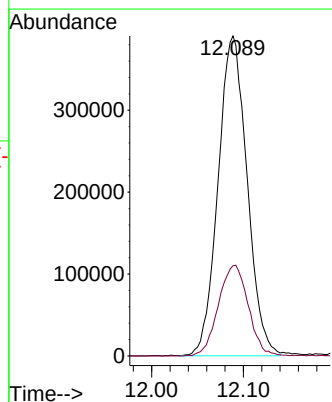
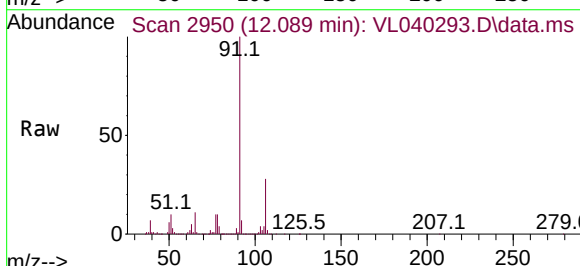
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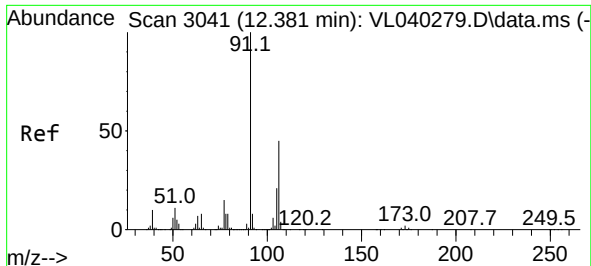
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#58
Ethyl Benzene
Concen: 2.937 ppbv
RT: 12.089 min Scan# 2950
Delta R.T. -0.009 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

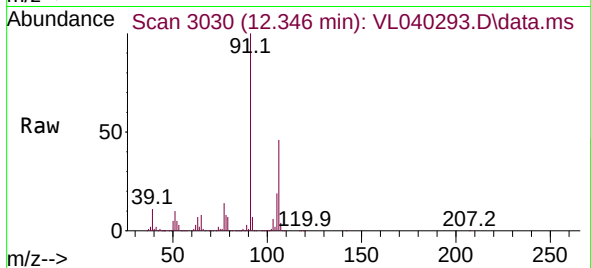
Tgt Ion: 91 Resp: 856883
Ion Ratio Lower Upper
91 100
106 28.2 23.4 35.2





#59
m/p-Xylene
Concen: 10.270 ppbv
RT: 12.346 min Scan# 3041
Delta R.T. -0.035 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

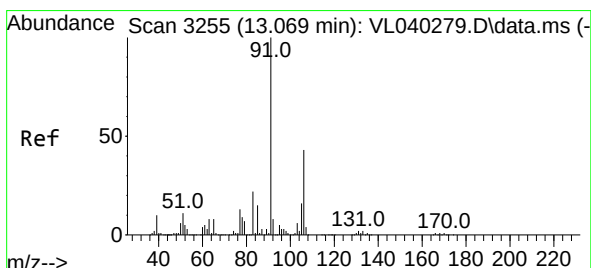
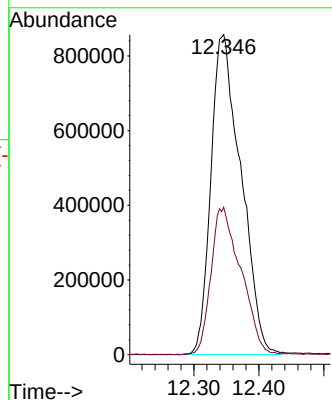
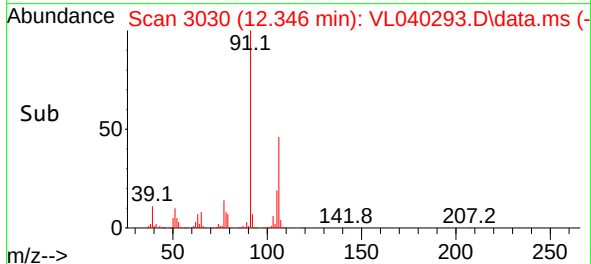
Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP



Tgt Ion: 91 Resp: 2745084
Ion Ratio Lower Upper
91 100
106 46.3 34.0 51.0

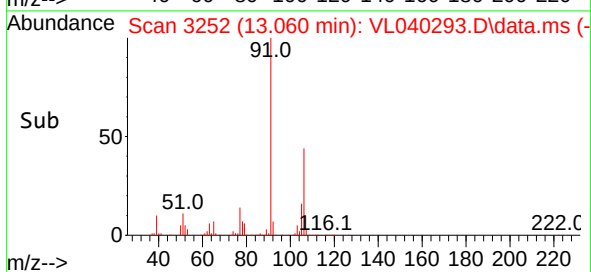
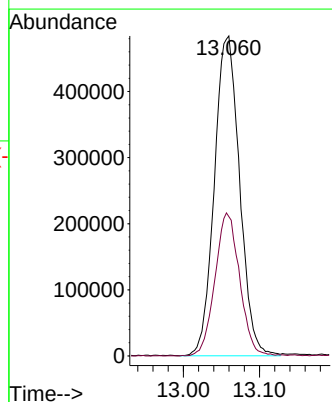
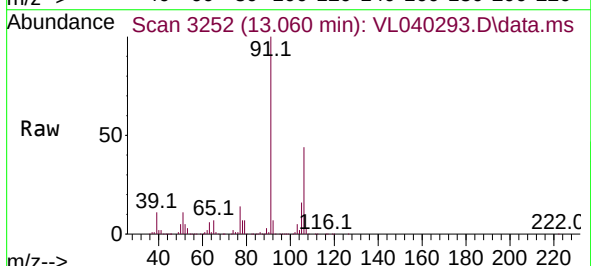
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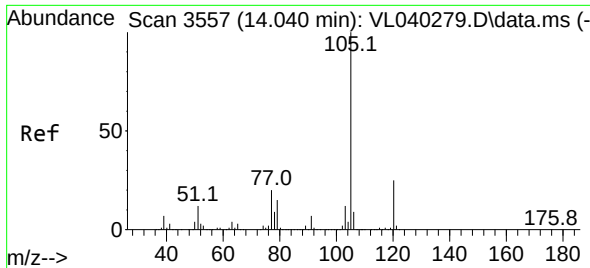
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#60
o-Xylene
Concen: 4.367 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. -0.009 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Tgt Ion: 91 Resp: 1115738
Ion Ratio Lower Upper
91 100
106 43.7 21.7 65.1





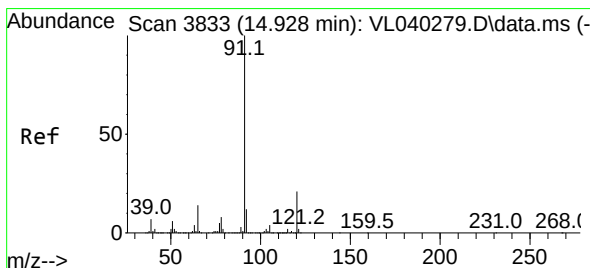
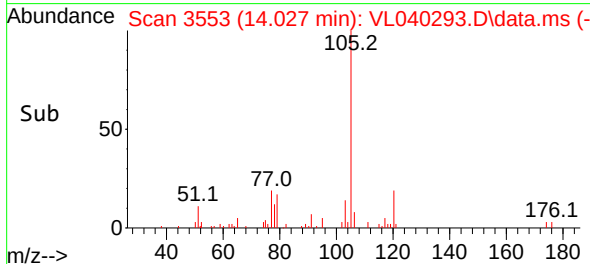
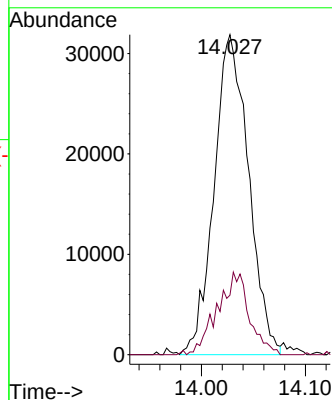
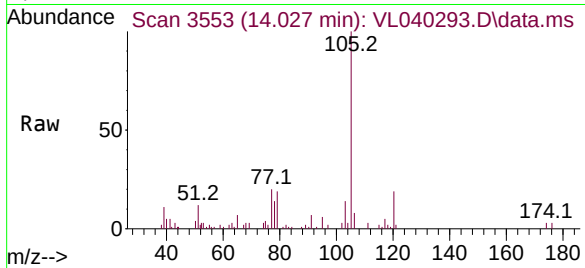
#62
Isopropylbenzene
Concen: 0.202 ppbv
RT: 14.027 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tgt Ion:105 Resp: 7340
Ion Ratio Lower Upper
105 100
120 23.8 19.9 29.9

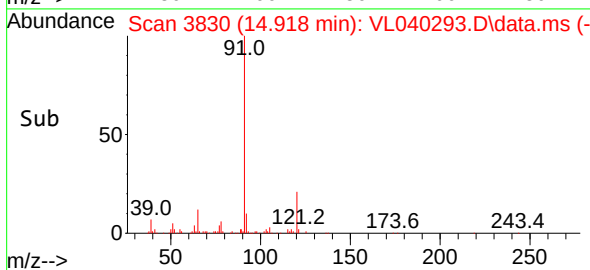
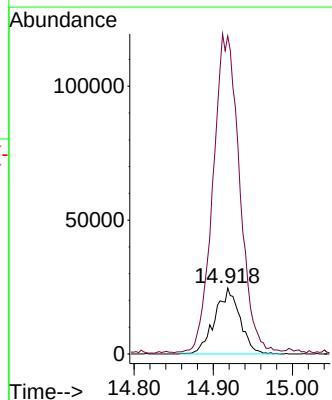
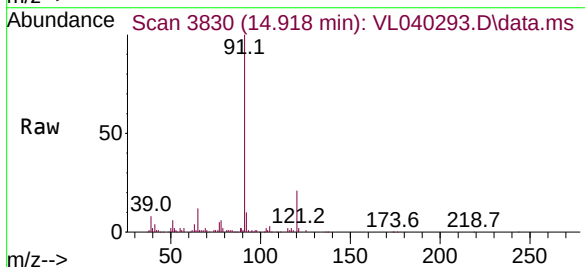
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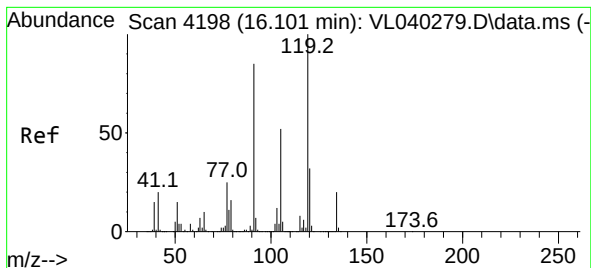
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#64
n-propylbenzene
Concen: 0.607 ppbv m
RT: 14.918 min Scan# 3830
Delta R.T. -0.010 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Tgt Ion:120 Resp: 54044
Ion Ratio Lower Upper
120 100
91 518.0 399.0 598.6





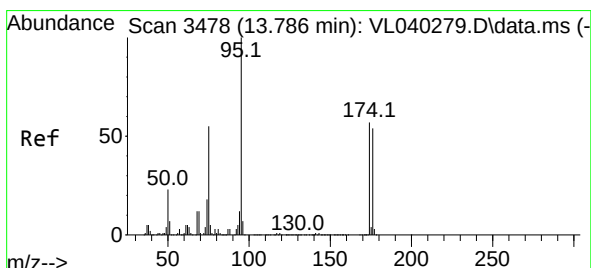
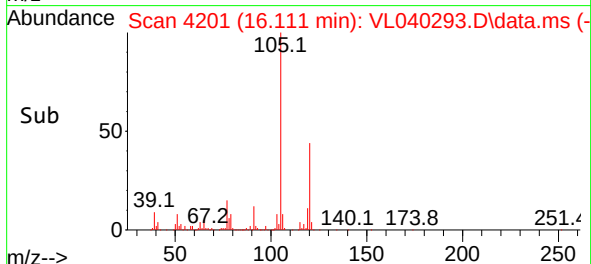
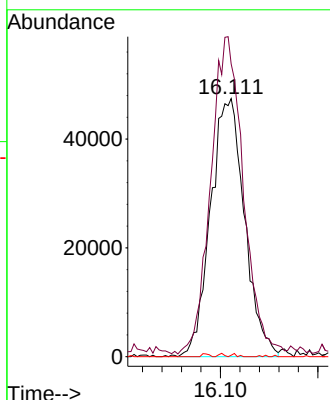
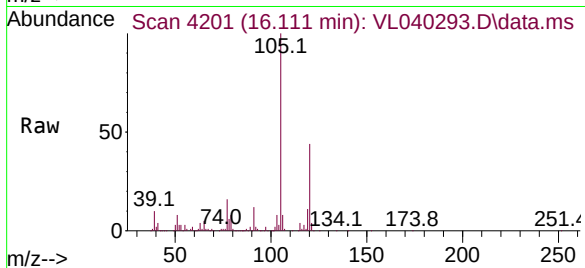
#65
tert-Butylbenzene
Concen: 0.366 ppbv
RT: 16.111 min Scan# 4198
Delta R.T. 0.010 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Instrument :
MSVOA_L
ClientSampleId :
SSSG-2DUP

Tgt Ion:119 Resp: 114783
Ion Ratio Lower Upper
119 100
91 122.2 69.4 104.2
134 0.0 15.8 23.6

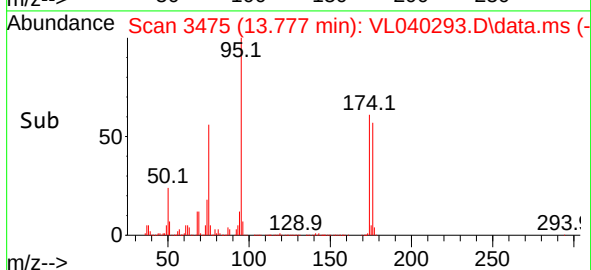
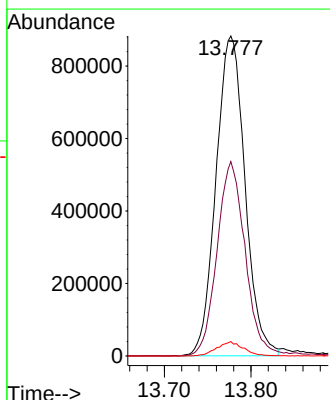
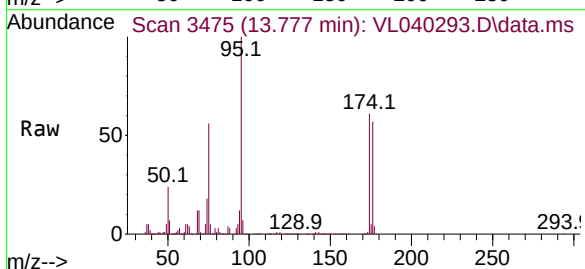
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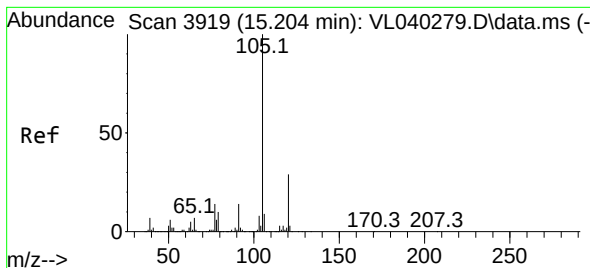
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.580 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.009 min
Lab File: VL040293.D
Acq: 16 Mar 2023 13:13

Tgt Ion: 95 Resp: 2055683
Ion Ratio Lower Upper
95 100
174 60.2 47.0 70.6
175 4.1 3.4 5.2





#72

4-Ethyltoluene

Concen: 1.206 ppbv

RT: 15.191 min Scan# 3915

Delta R.T. -0.013 min

Lab File: VL040293.D

Acq: 16 Mar 2023 13:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-2DUP

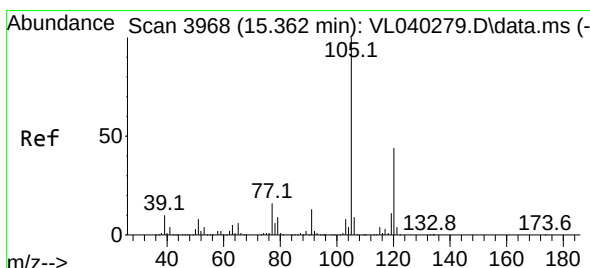
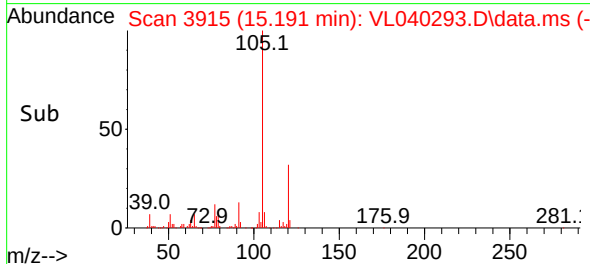
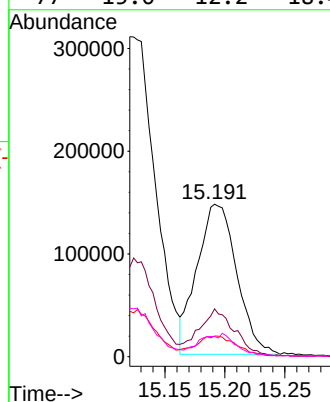
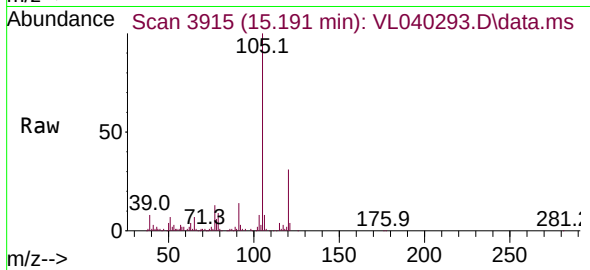
Tgt Ion:105 Resp: 33704

Ion	Ratio	Lower	Upper
105	100		
120	30.5	23.7	35.5
91	14.1	11.6	17.4
77	15.0	12.2	18.4

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Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#73

1,3,5-Trimethylbenzene

Concen: 1.084 ppbv

RT: 15.352 min Scan# 3965

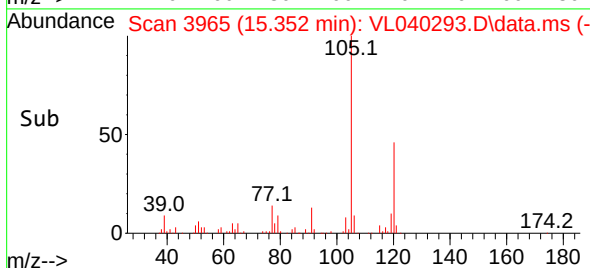
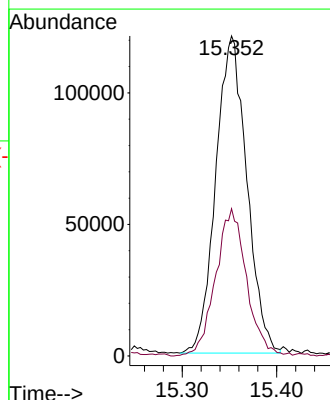
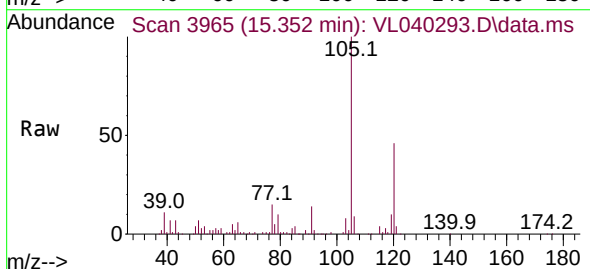
Delta R.T. -0.010 min

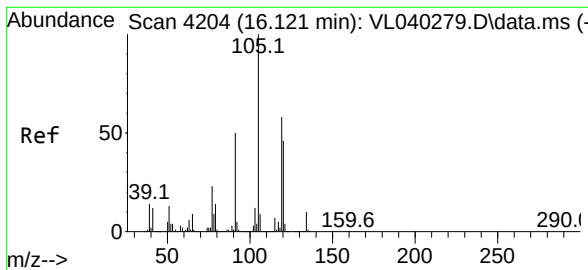
Lab File: VL040293.D

Acq: 16 Mar 2023 13:13

Tgt Ion:105 Resp: 274398

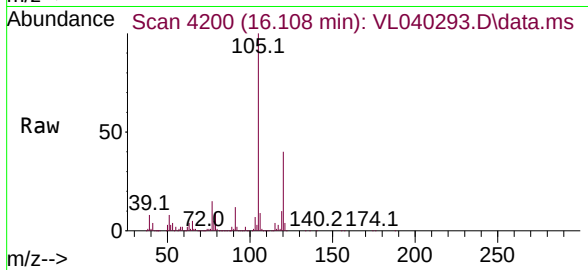
Ion	Ratio	Lower	Upper
105	100		
120	46.2	34.9	52.3





#74
 1,2,4-Trimethylbenzene
 Concen: 3.803 ppbv
 RT: 16.108 min Scan# 41
 Delta R.T. -0.013 min
 Lab File: VL040293.D
 Acq: 16 Mar 2023 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-2DUP



Tgt Ion:105 Resp: 1097390
 Ion Ratio Lower Upper
 105 100
 120 39.8 36.6 54.8
 91 12.0 39.9 59.9
 77 14.6 18.6 27.8#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/17/2023
 Supervised By :Mahesh Dadoda 03/17/2023

