

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040444.D
 Acq On : 16 May 2023 19:06
 Operator : SY/MD
 Sample : 02793-03 8X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023
 Supervised By :Mahesh Dadoda 05/17/2023

Quant Time: May 17 05:16:37 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M

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

QLast Update : Wed May 17 05:12:40 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	1092544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2853018	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	2467254	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1892222	9.538	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	44010	0.205	ppbv	93
3) Chlorodifluoromethane	2.681	51	28211m	0.200	ppbv	
4) Chloromethane	2.822	50	20693m	0.236	ppbv	
9) Propene	2.709	41	22304	0.406	ppbv #	77
10) Heptane	7.603	43	15191m	0.120	ppbv	
11) Trichlorofluoromethane	3.571	101	20208	0.104	ppbv	94
13) Ethanol	3.246	45	455504	109.495	ppbv	92
15) Acetone	3.478	43	991930	7.177	ppbv	99
18) 1,1-Dichloroethene	3.890	96	82598	1.319	ppbv	87
19) Isopropyl Alcohol	3.597	45	43934	0.653	ppbv #	1
20) Methylene Chloride	3.944	84	5479153	88.990	ppbv	91
24) 1,1-Dichloroethane	4.574	63	88774	0.679	ppbv	97
26) Hexane	5.230	57	5629532	52.172	ppbv #	34
30) Cyclohexane	6.619	84	28503	0.325	ppbv	86
32) 1,1,1-Trichloroethane	6.024	97	466728	2.283	ppbv	99
34) 2-Butanone	4.809	43	48808m	0.321	ppbv	
35) Carbon Tetrachloride	6.510	117	6689m	0.033	ppbv	
36) Benzene	6.388	78	25170m	0.109	ppbv	
41) Tetrahydrofuran	5.584	42	9485m	0.113	ppbv	
44) 2,2,4-Trimethylpentane	7.346	57	56608m	0.148	ppbv	
52) Tetrachloroethene	10.632	164	2533m	0.032	ppbv	
53) Toluene	9.243	91	284148	1.161	ppbv	99
58) Ethyl Benzene	12.117	91	33684m	0.108	ppbv	
59) m/p-Xylene	12.378	91	112932m	0.397	ppbv	
60) o-Xylene	13.092	91	46893m	0.173	ppbv	
73) 1,3,5-Trimethylbenzene	15.381	105	29962m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	16.146	105	78405m	0.242	ppbv	

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

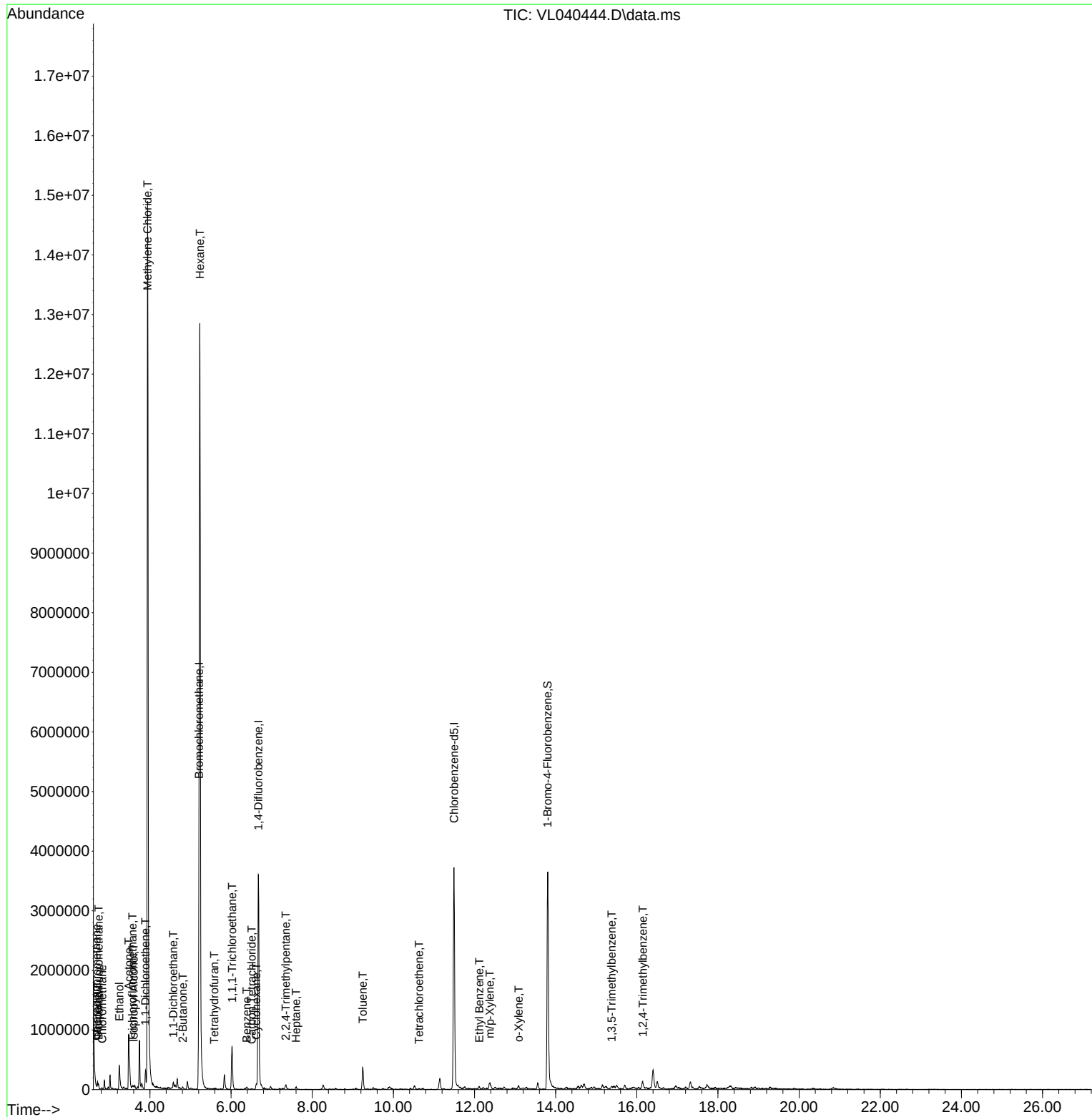
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
Data File : VL040444.D
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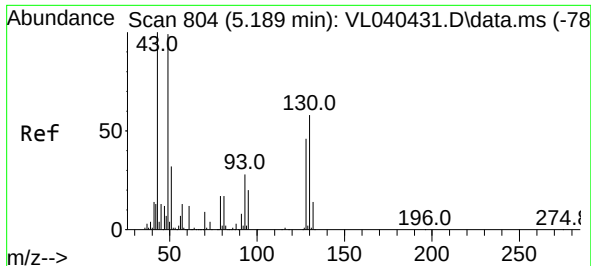
Instrument :
MSVOA_L
ClientSampleId :
SG-3

Quant Time: May 17 05:16:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed May 17 05:12:40 2023
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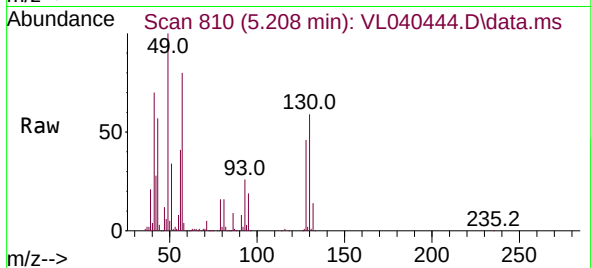
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

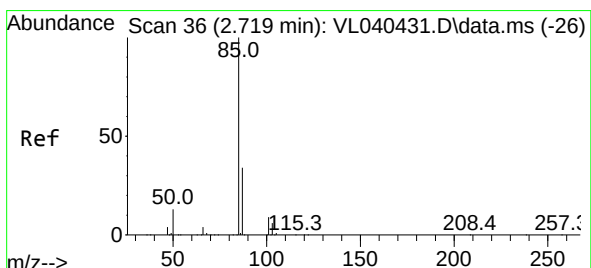
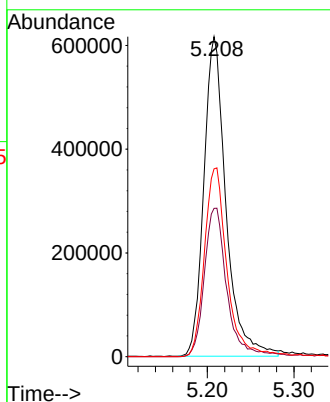
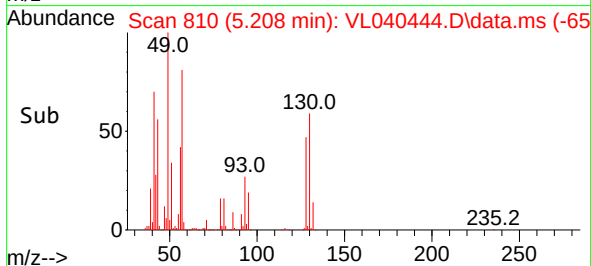
Instrument :
MSVOA_L
ClientSampleId :
SG-3



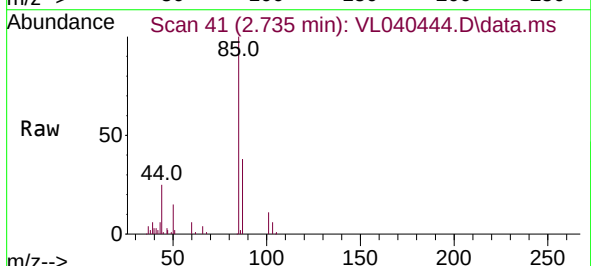
Tgt Ion: 49 Resp: 1092544
Ion Ratio Lower Upper
49 100
128 48.2 24.3 72.8
130 61.3 30.2 90.6

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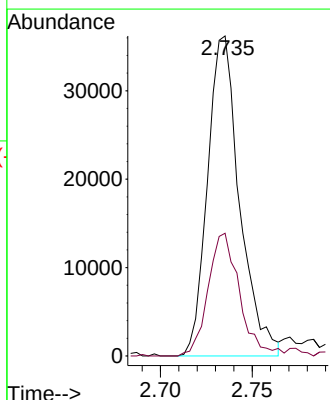
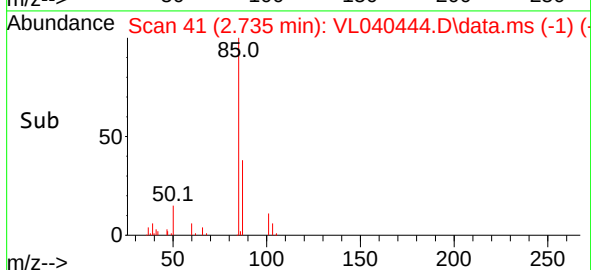
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023

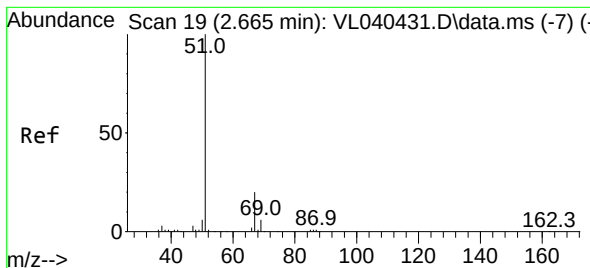


#2
Dichlorodifluoromethane
Concen: 0.205 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06



Tgt Ion: 85 Resp: 44010
Ion Ratio Lower Upper
85 100
87 38.4 27.4 41.0





#3

Chlorodifluoromethane

Concen: 0.200 ppbv m

RT: 2.681 min Scan# 24

Delta R.T. 0.006 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion: 51 Resp: 2821

Ion Ratio Lower Upper

51 100

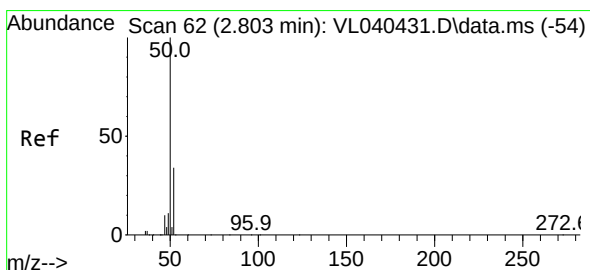
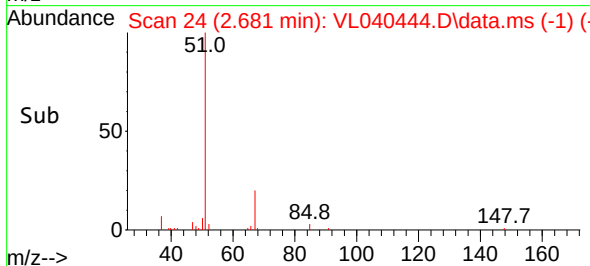
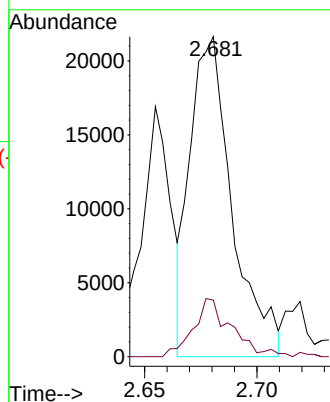
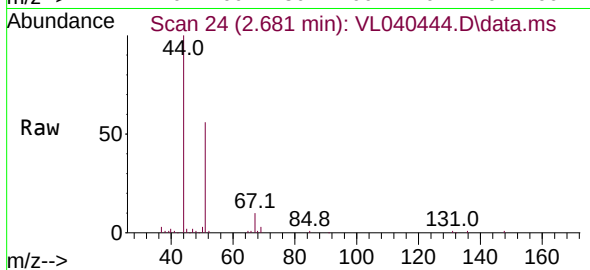
67 17.0 15.8 23.6

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#4

Chloromethane

Concen: 0.236 ppbv m

RT: 2.822 min Scan# 68

Delta R.T. 0.010 min

Lab File: VL040444.D

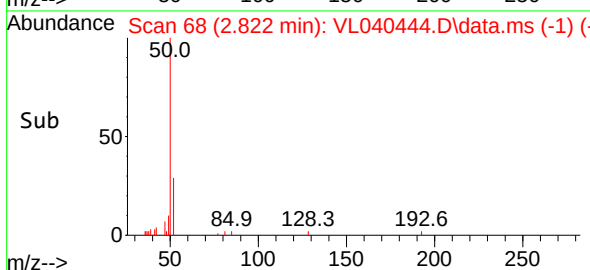
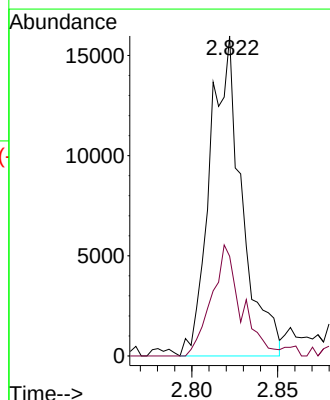
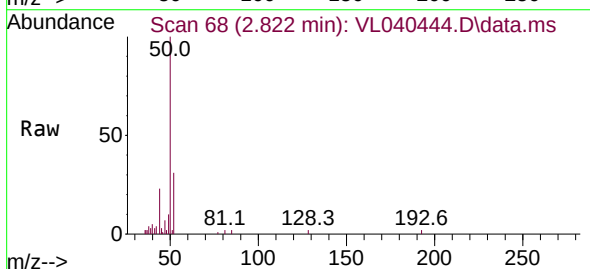
Acq: 16 May 2023 19:06

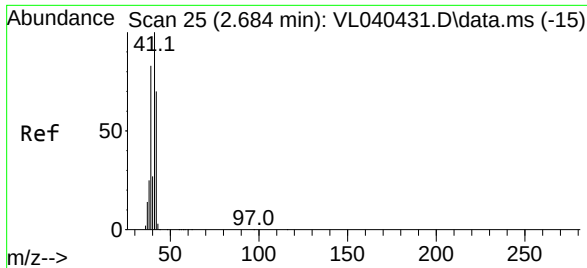
Tgt Ion: 50 Resp: 20693

Ion Ratio Lower Upper

50 100

52 31.2 27.6 41.4





#9

Propene

Concen: 0.406 ppbv

RT: 2.709 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

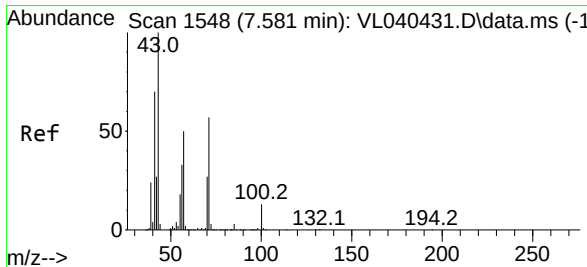
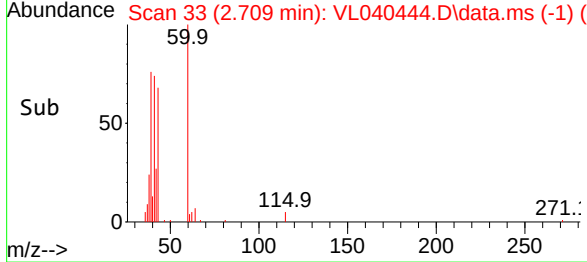
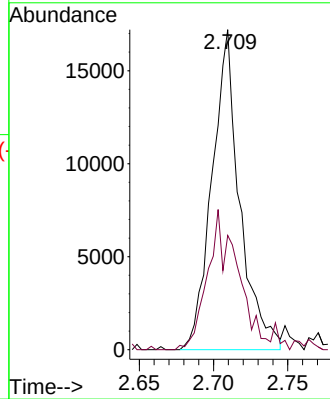
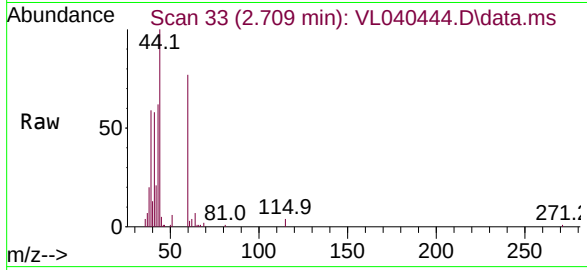
SG-3

Tgt Ion: 41 Resp: 22304
 Ion Ratio Lower Upper
 41 100
 42 51.7 56.6 84.8

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 Supervised By :Mahesh Dadoda 05/17/2023



#10

Heptane

Concen: 0.120 ppbv m

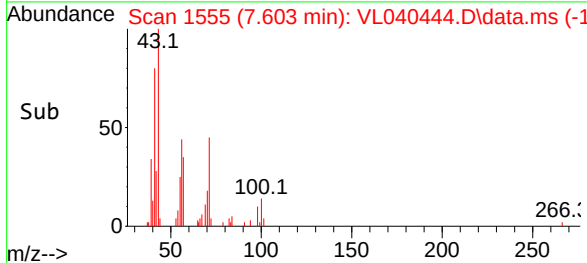
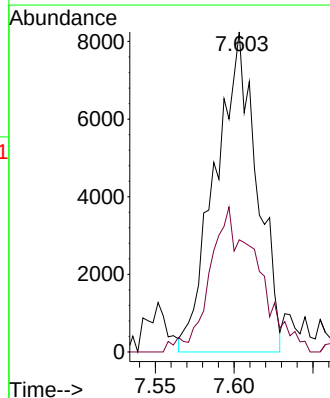
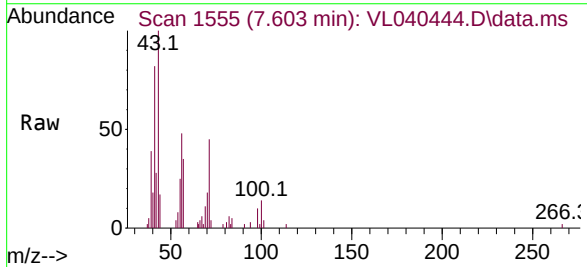
RT: 7.603 min Scan# 1555

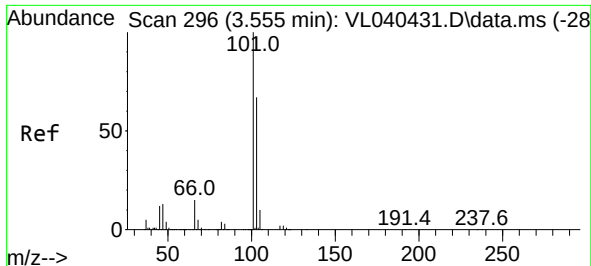
Delta R.T. 0.006 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

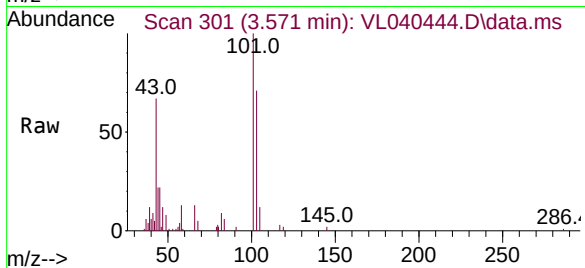
Tgt Ion: 43 Resp: 15191
 Ion Ratio Lower Upper
 43 100
 57 52.3 42.2 63.2





#11
Trichlorofluoromethane
Concen: 0.104 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

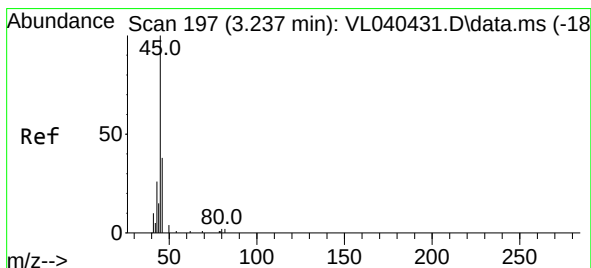
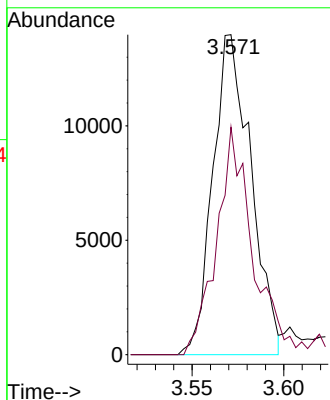
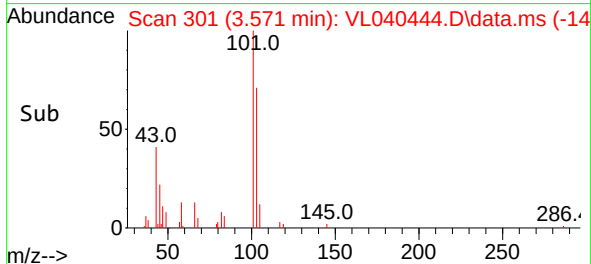
Instrument :
MSVOA_L
ClientSampleId :
SG-3



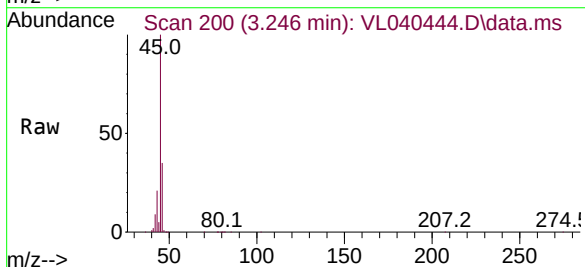
Tgt Ion:101 Resp: 20208
Ion Ratio Lower Upper
101 100
103 71.1 53.3 79.9

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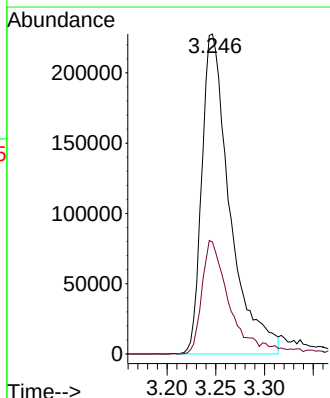
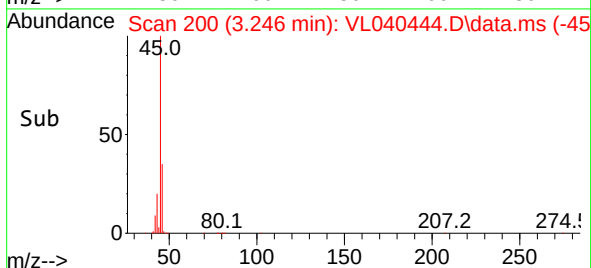
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023

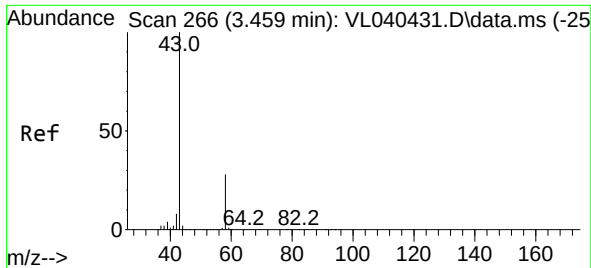


#13
Ethanol
Concen: 109.495 ppbv
RT: 3.246 min Scan# 200
Delta R.T. -0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06



Tgt Ion: 45 Resp: 455504
Ion Ratio Lower Upper
45 100
46 37.3 13.2 52.8





#15

Acetone

Concen: 7.177 ppbv

RT: 3.478 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion: 43 Resp: 991930

Ion Ratio Lower Upper

43 100

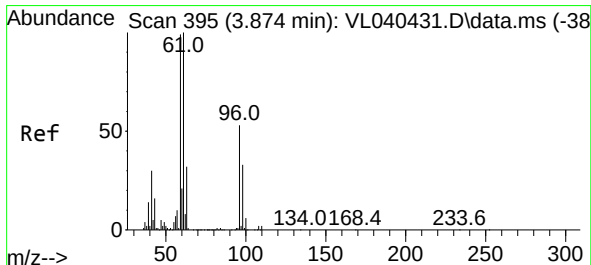
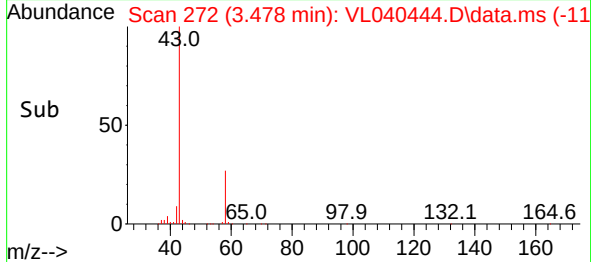
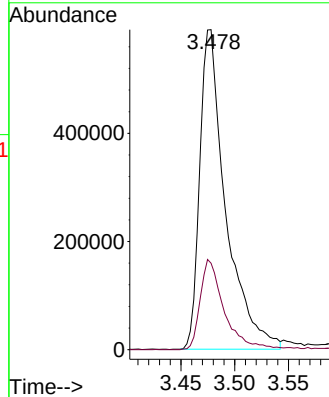
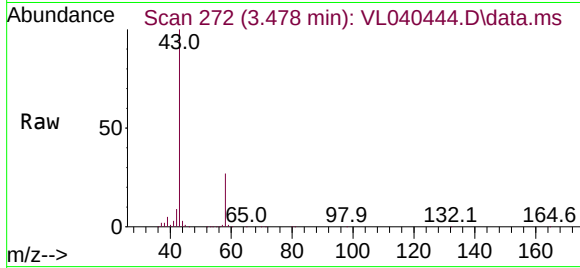
58 27.3 22.2 33.4

Manual Integrations

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Supervised By :Mahesh Dadoda 05/17/2023



#18

1,1-Dichloroethene

Concen: 1.319 ppbv

RT: 3.890 min Scan# 400

Delta R.T. 0.003 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

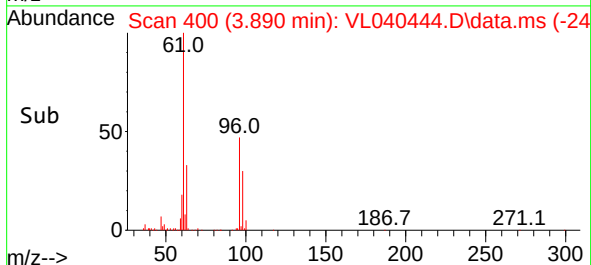
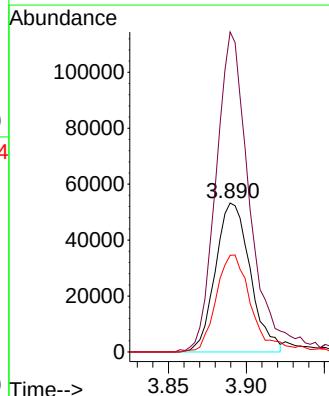
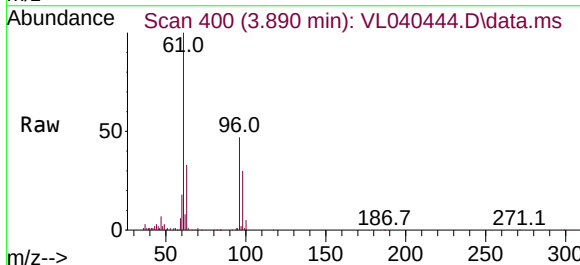
Tgt Ion: 96 Resp: 82598

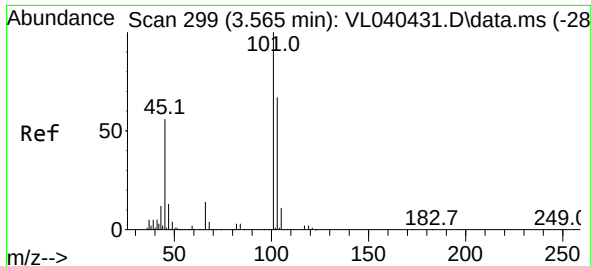
Ion Ratio Lower Upper

96 100

61 213.4 151.8 227.8

98 64.9 50.5 75.7





#19

Isopropyl Alcohol

Concen: 0.653 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.019 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

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ClientSampleId :

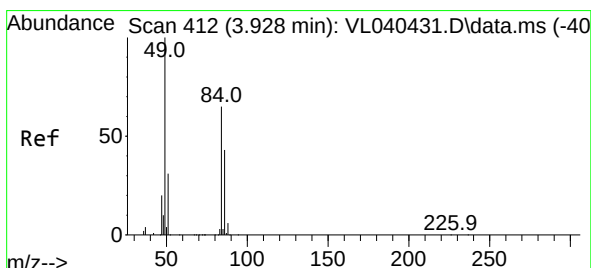
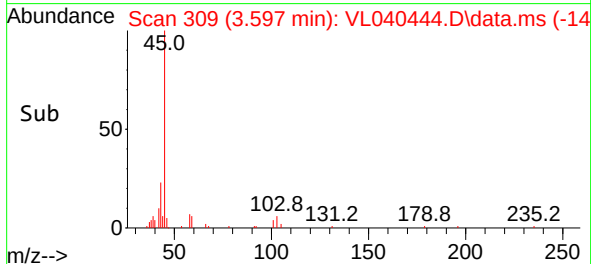
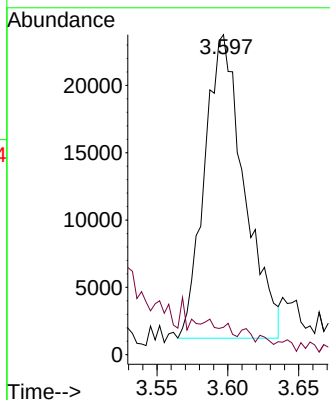
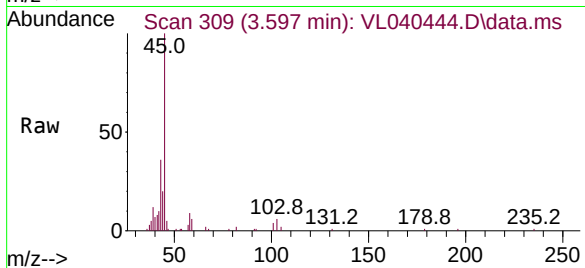
SG-3

Tgt Ion: 45 Resp: 43934
 Ion Ratio Lower Upper
 45 100
 58 598.6 2.1 3.1

Manual Integrations

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 Supervised By :Mahesh Dadoda 05/17/2023



#20

Methylene Chloride

Concen: 88.990 ppbv

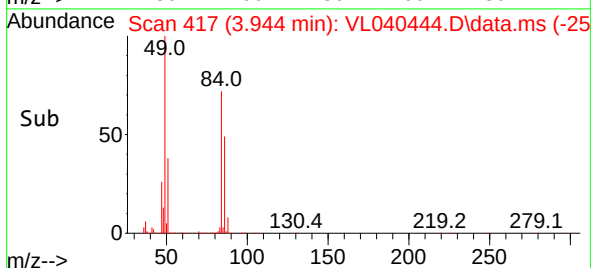
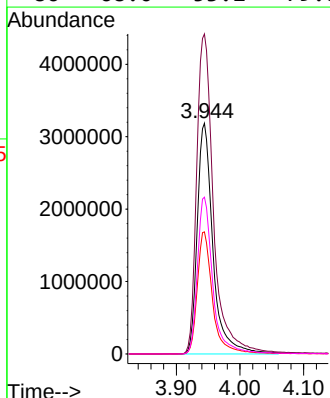
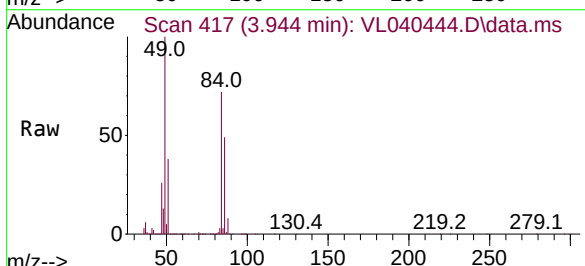
RT: 3.944 min Scan# 417

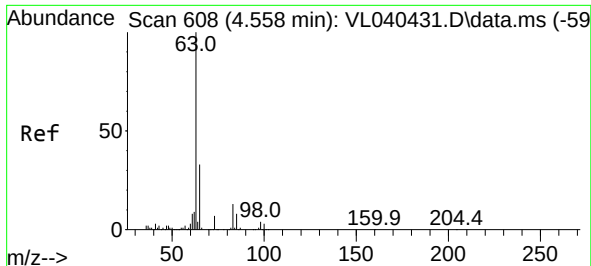
Delta R.T. 0.006 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

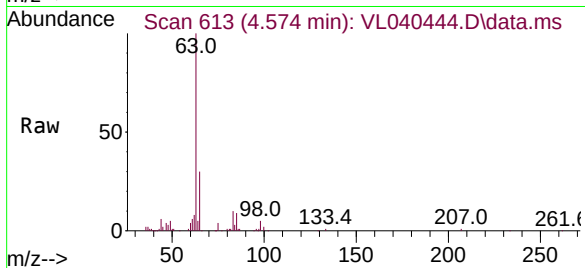
Tgt Ion: 84 Resp: 5479153
 Ion Ratio Lower Upper
 84 100
 49 138.7 123.7 185.5
 51 52.9 38.6 57.8
 86 68.0 53.2 79.8





#24
1,1-Dichloroethane
Concen: 0.679 ppbv
RT: 4.574 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

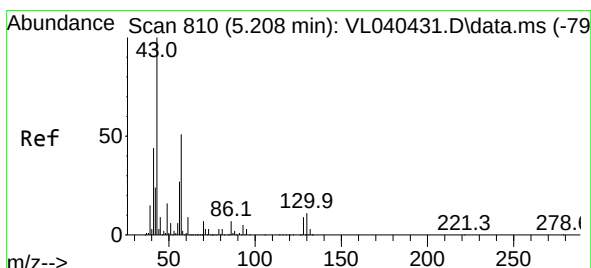
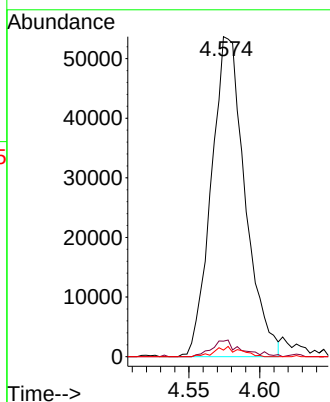
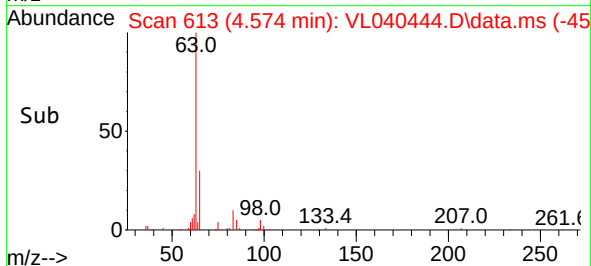
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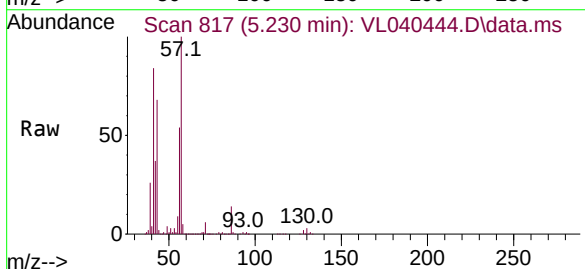
Tgt Ion: 63 Resp: 88774
Ion Ratio Lower Upper
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98 4.9 2.0 5.8
100 2.1 1.4 4.2

Manual Integrations
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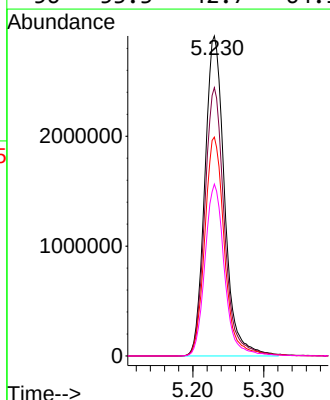
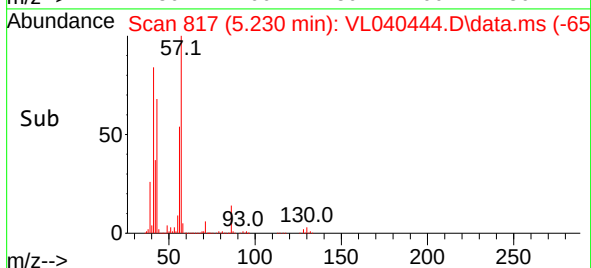
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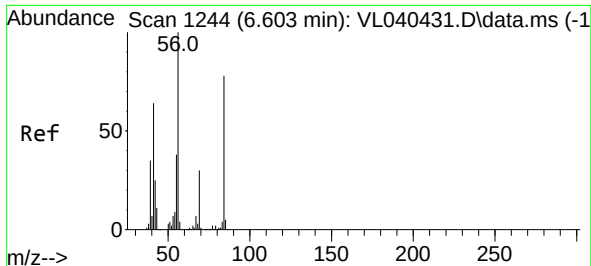


#26
Hexane
Concen: 52.172 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.006 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06



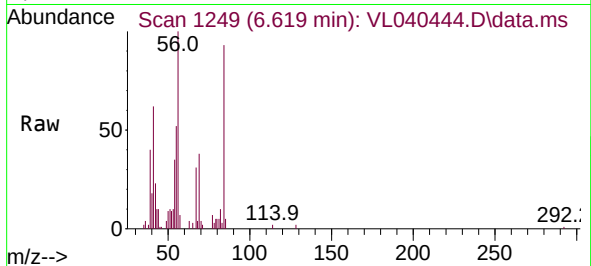
Tgt Ion: 57 Resp: 5629532
Ion Ratio Lower Upper
57 100
41 83.7 75.1 112.7
43 68.2 194.4 291.6#
56 53.3 42.7 64.1





#30
Cyclohexane
Concen: 0.325 ppbv
RT: 6.619 min Scan# 1064
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

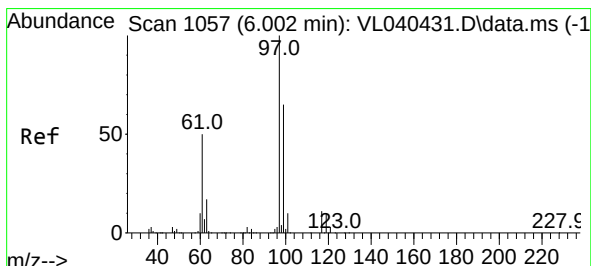
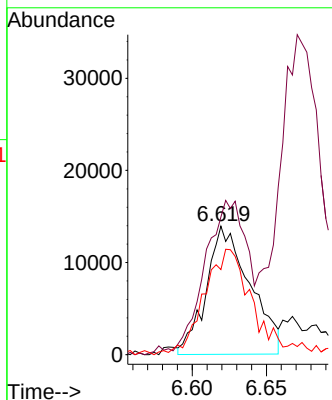
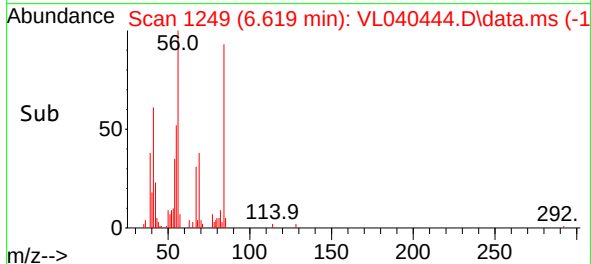
Instrument :
MSVOA_L
ClientSampleId :
SG-3



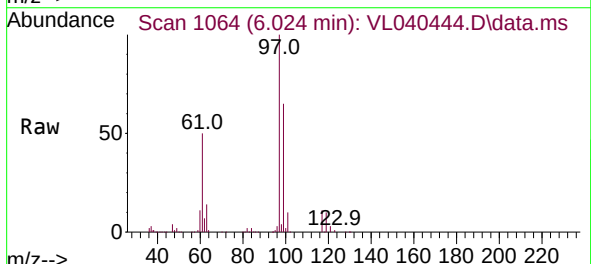
Tgt Ion: 84 Resp: 2850
Ion Ratio Lower Upper
84 100
56 118.1 108.2 162.4
41 95.1 66.9 100.3

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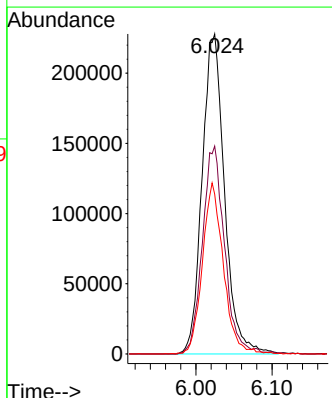
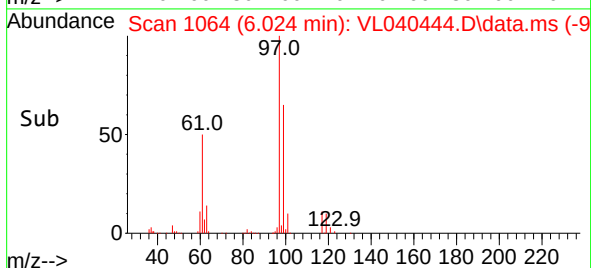
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023

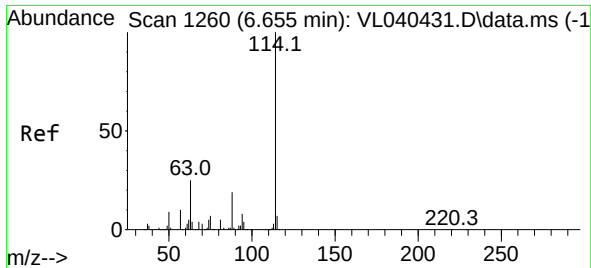


#32
1,1,1-Trichloroethane
Concen: 2.283 ppbv
RT: 6.024 min Scan# 1064
Delta R.T. 0.010 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06



Tgt Ion: 97 Resp: 466728
Ion Ratio Lower Upper
97 100
99 64.4 52.2 78.2
61 50.2 40.2 60.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. 0.003 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion:114 Resp: 2853018

Ion Ratio Lower Upper

114 100

63 24.5 21.0 31.6

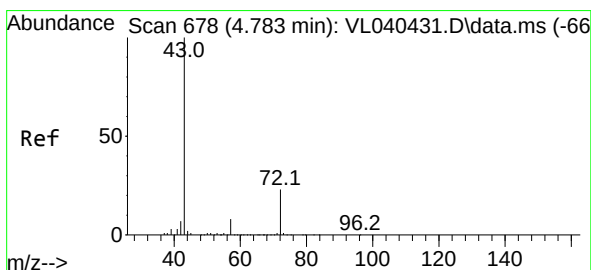
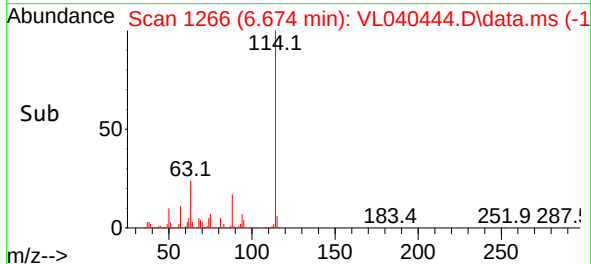
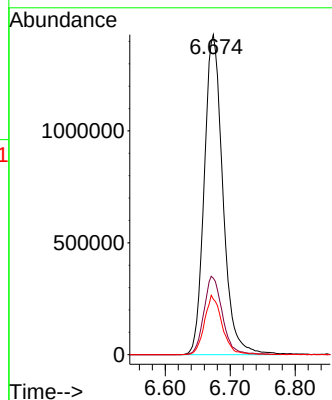
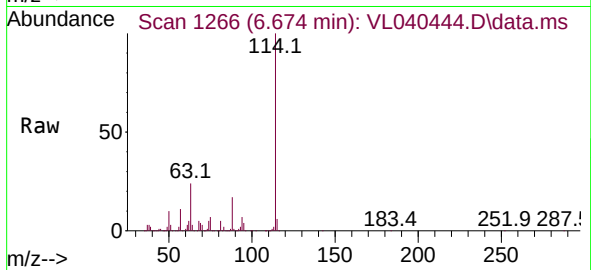
88 17.7 14.6 22.0

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Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#34

2-Butanone

Concen: 0.321 ppbv m

RT: 4.809 min Scan# 686

Delta R.T. 0.013 min

Lab File: VL040444.D

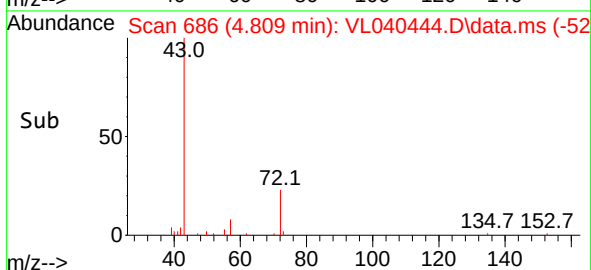
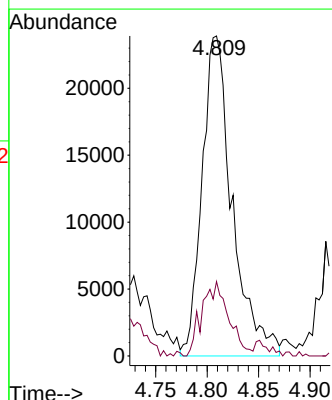
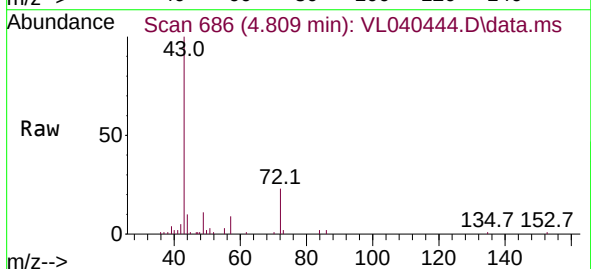
Acq: 16 May 2023 19:06

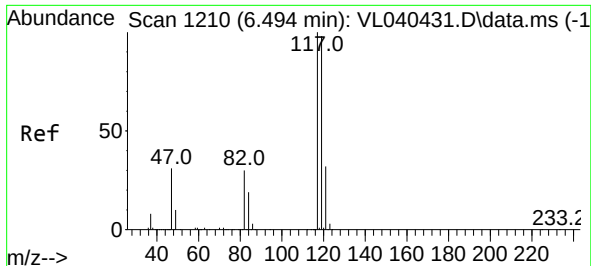
Tgt Ion: 43 Resp: 48808

Ion Ratio Lower Upper

43 100

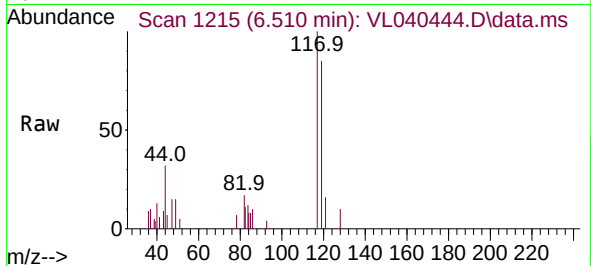
72 23.5 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 6.510 min Scan# 1177
Delta R.T. -0.000 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

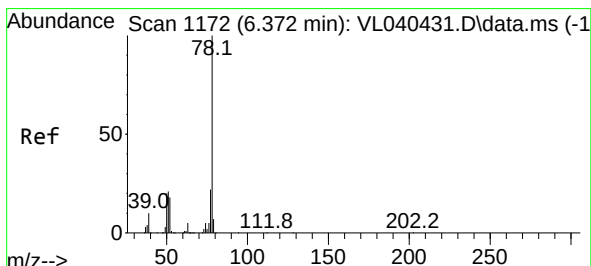
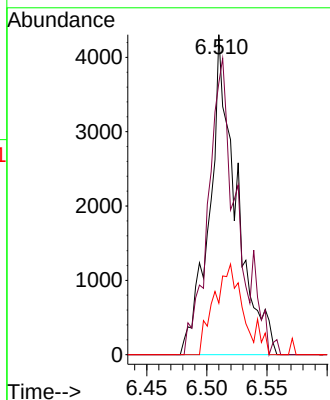
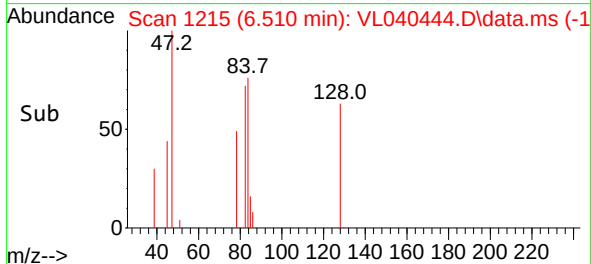
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 117 Resp: 6689
Ion Ratio Lower Upper
117 100
119 84.9 78.0 117.0
121 16.1 25.2 37.8

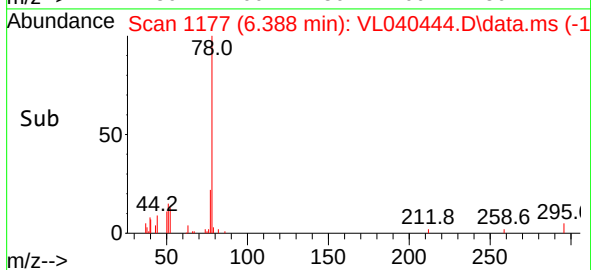
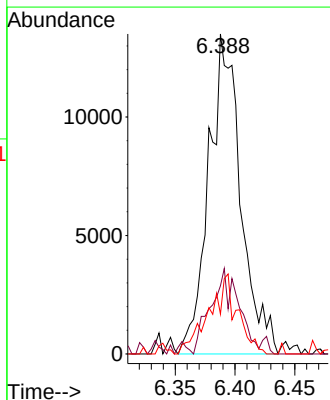
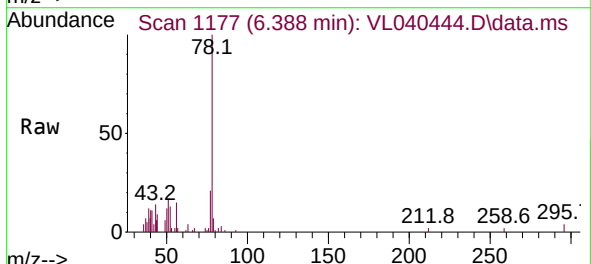
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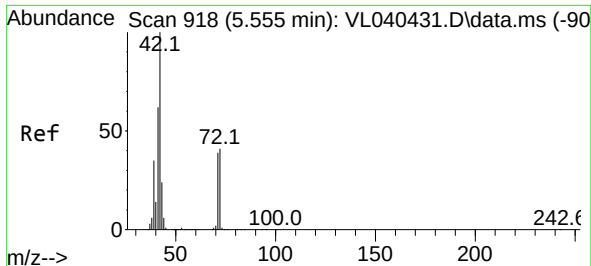
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023



#36
Benzene
Concen: 0.109 ppbv m
RT: 6.388 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

Tgt Ion: 78 Resp: 25170
Ion Ratio Lower Upper
78 100
77 21.3 17.7 26.5
50 12.4 15.8 23.8





#41

Tetrahydrofuran

Concen: 0.113 ppbv m

RT: 5.584 min Scan# 918

Delta R.T. 0.016 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

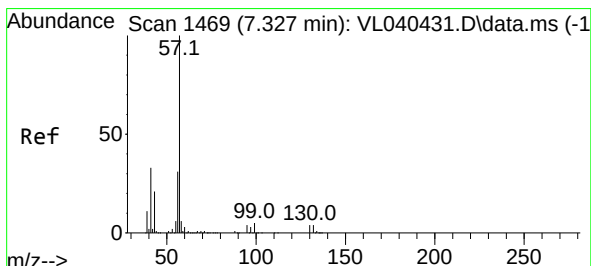
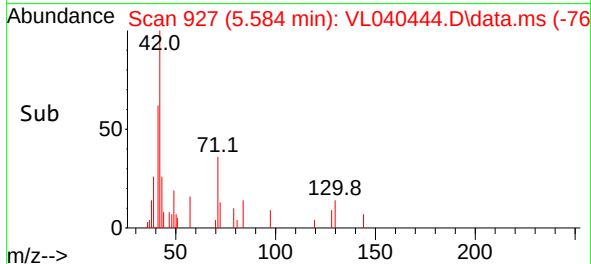
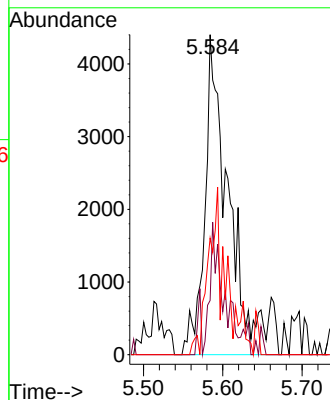
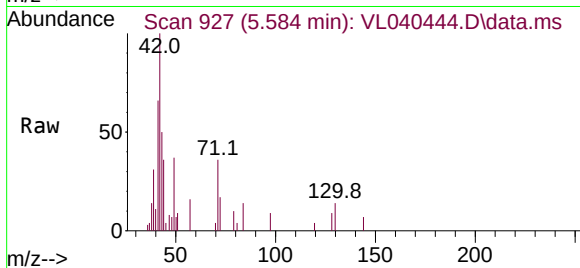
SG-3

Tgt Ion: 42	Resp: 948
Ion Ratio	Lower Upper
42 100	
72 0.0	33.0 49.4
71 0.0	32.2 48.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023



#44

2,2,4-Trimethylpentane

Concen: 0.148 ppbv m

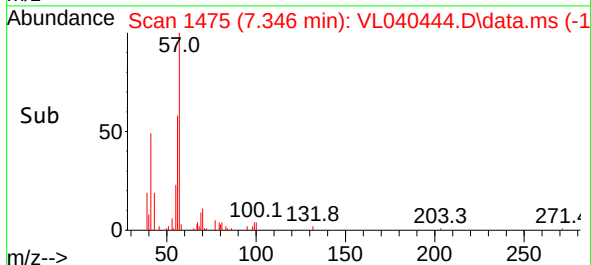
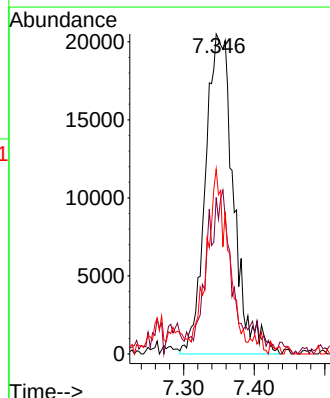
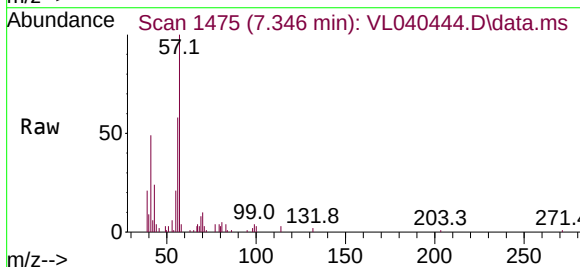
RT: 7.346 min Scan# 1475

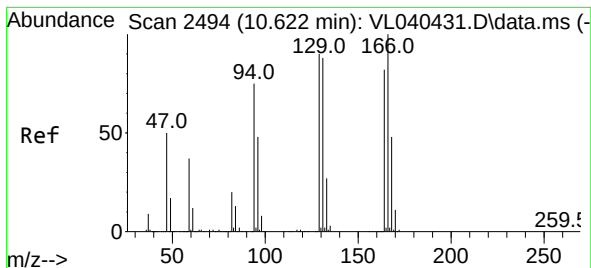
Delta R.T. 0.003 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Tgt Ion: 57	Resp: 56608
Ion Ratio	Lower Upper
57 100	
41 0.0	27.0 40.4
56 47.3	25.0 37.4





#52

Tetrachloroethene

Concen: 0.032 ppbv m

RT: 10.632 min Scan# 2494

Delta R.T. -0.006 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

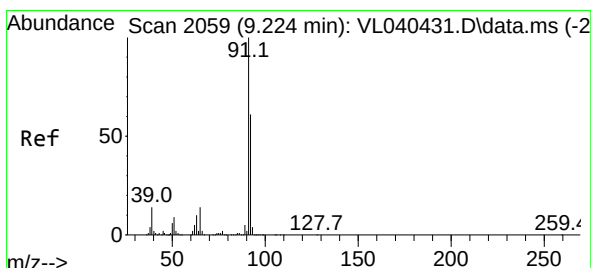
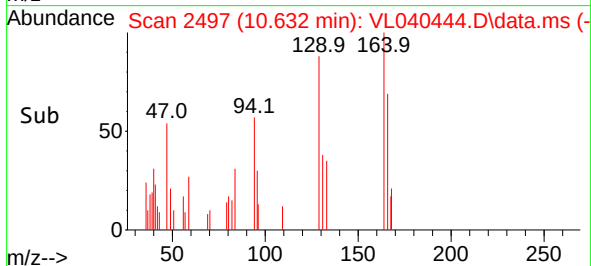
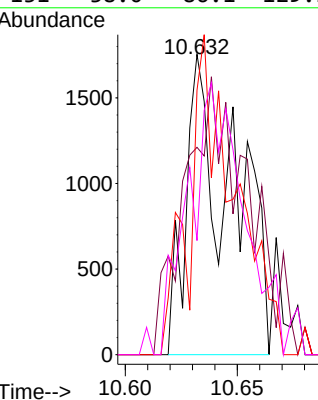
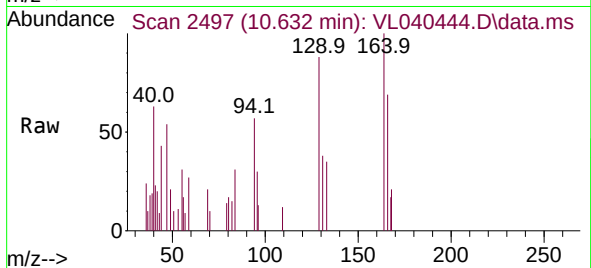
SG-3

Tgt Ion:	164	Resp:	253
Ion Ratio	Lower	Upper	
164	100		
166	69.0	97.8	146.6
129	88.1	88.4	132.6
131	38.0	86.1	129.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023



#53

Toluene

Concen: 1.161 ppbv

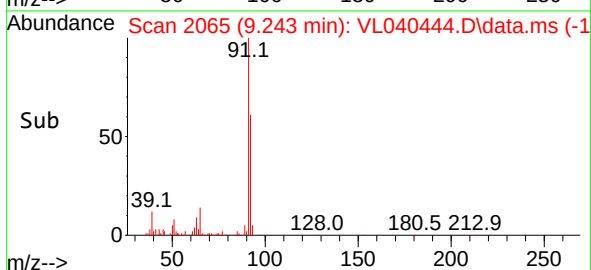
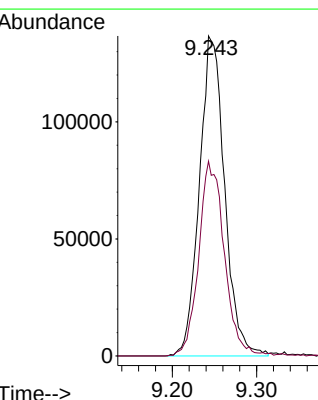
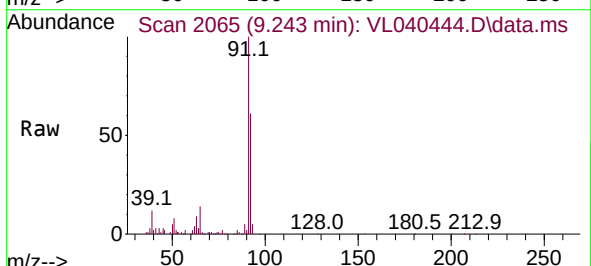
RT: 9.243 min Scan# 2065

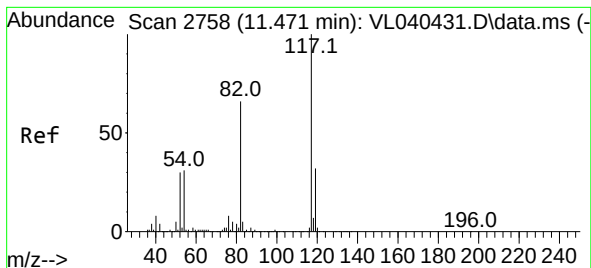
Delta R.T. 0.000 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

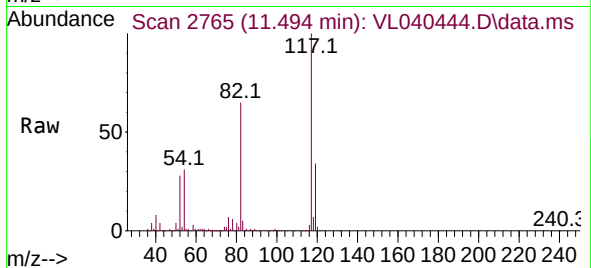
Tgt Ion:	91	Resp:	284148
Ion Ratio	Lower	Upper	
91	100		
92	61.9	49.1	73.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

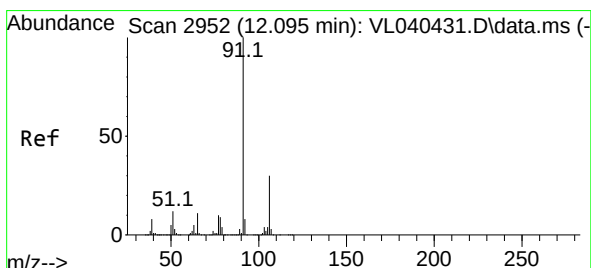
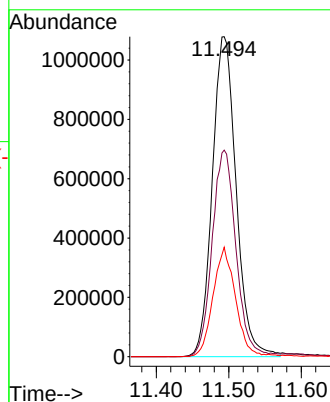
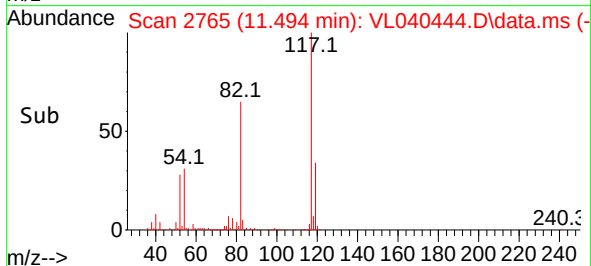
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 117 Resp: 2467254
Ion Ratio Lower Upper
117 100
82 66.1 52.5 78.7
119 32.6 24.0 36.0

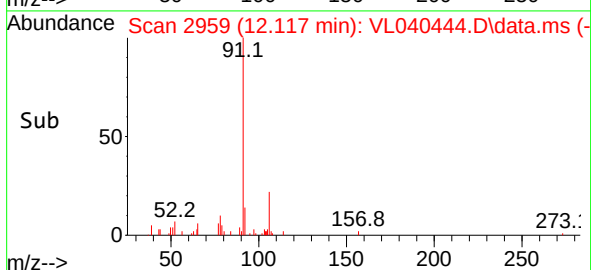
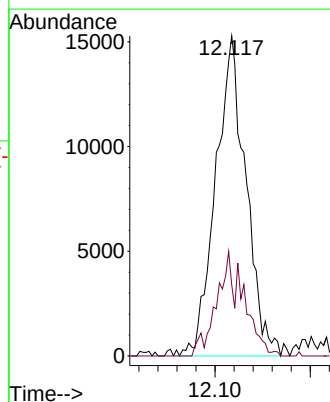
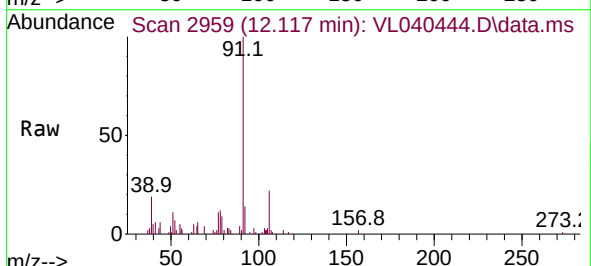
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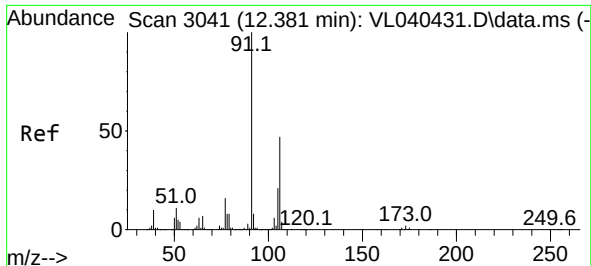
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023



#58
Ethyl Benzene
Concen: 0.108 ppbv m
RT: 12.117 min Scan# 2959
Delta R.T. 0.006 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

Tgt Ion: 91 Resp: 33684
Ion Ratio Lower Upper
91 100
106 22.2 23.8 35.8#





#59

m/p-Xylene

Concen: 0.397 ppbv m

RT: 12.378 min Scan# 3040

Delta R.T. -0.019 min

Lab File: VL040444.D

Acq: 16 May 2023 19:06

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion: 91 Resp: 11293

Ion Ratio Lower Upper

91 100

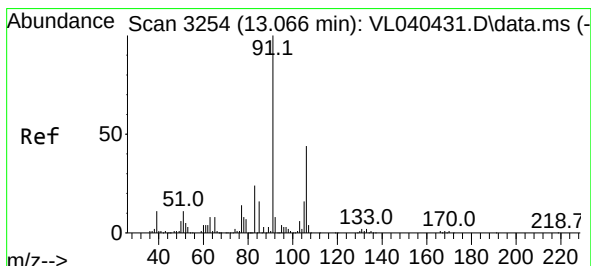
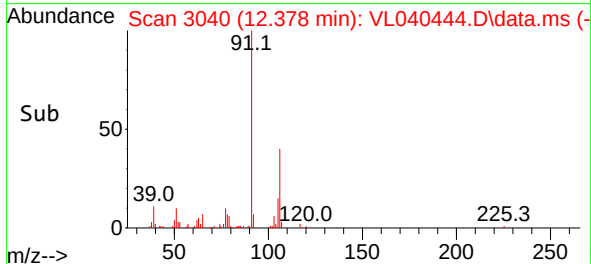
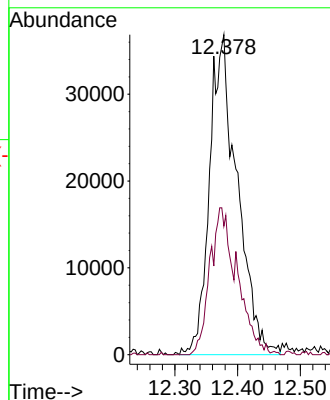
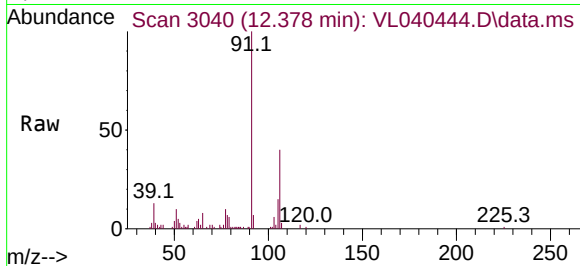
106 0.0 34.9 52.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/17/2023

Supervised By :Mahesh Dadoda 05/17/2023



#60

o-Xylene

Concen: 0.173 ppbv m

RT: 13.092 min Scan# 3262

Delta R.T. 0.010 min

Lab File: VL040444.D

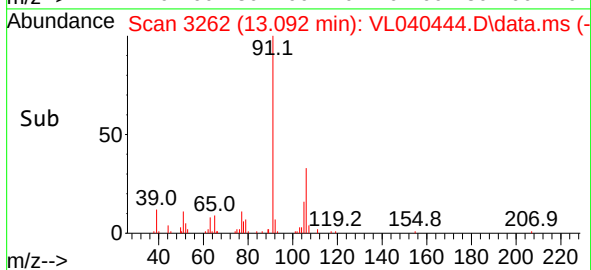
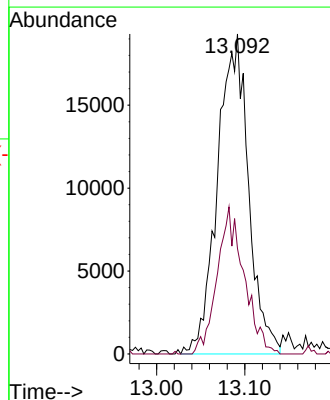
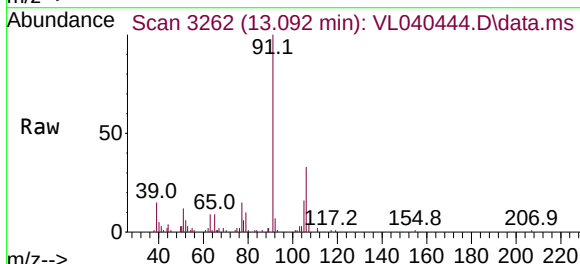
Acq: 16 May 2023 19:06

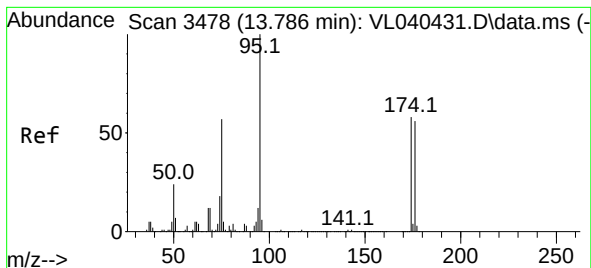
Tgt Ion: 91 Resp: 46893

Ion Ratio Lower Upper

91 100

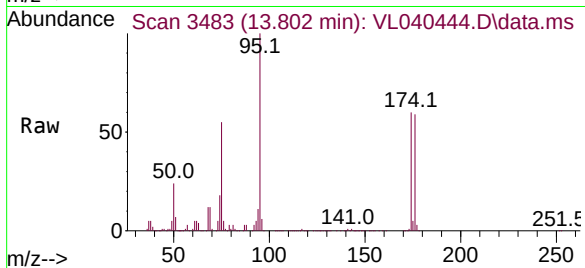
106 40.1 21.8 65.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.538 ppbv
RT: 13.802 min Scan# 3478
Delta R.T. 0.003 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06

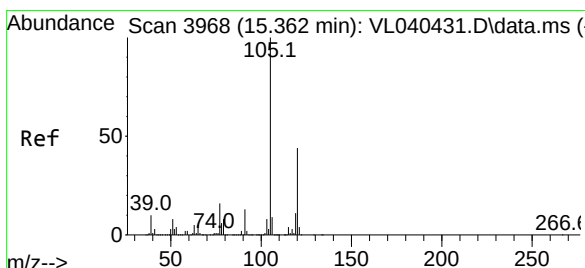
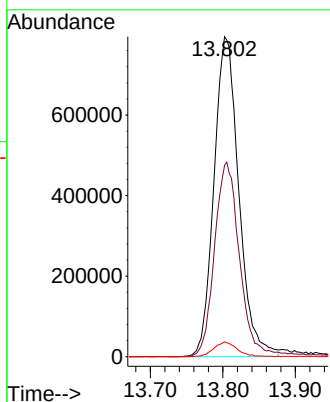
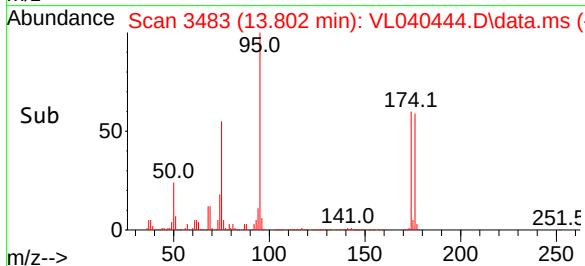
Instrument :
MSVOA_L
ClientSampleId :
SG-3



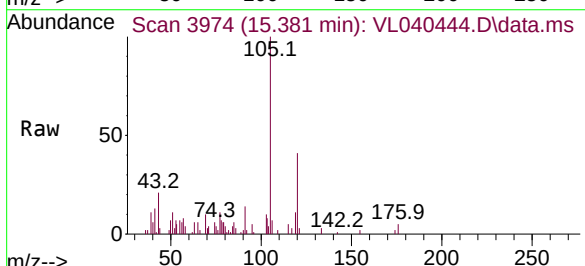
Tgt Ion: 95 Resp: 189222
Ion Ratio Lower Upper
95 100
174 62.6 47.0 70.6
175 4.5 3.4 5.0

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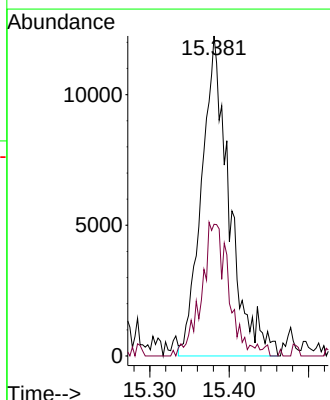
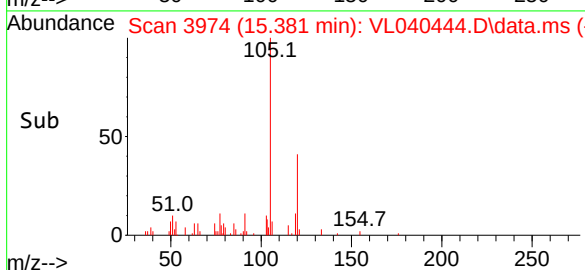
Reviewed By :Semsettin Yesilyurt 05/17/2023
Supervised By :Mahesh Dadoda 05/17/2023

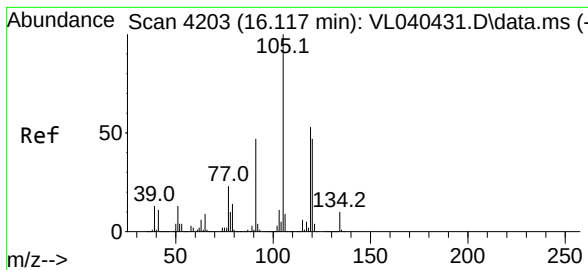


#73
1,3,5-Trimethylbenzene
Concen: 0.106 ppbv m
RT: 15.381 min Scan# 3974
Delta R.T. 0.006 min
Lab File: VL040444.D
Acq: 16 May 2023 19:06



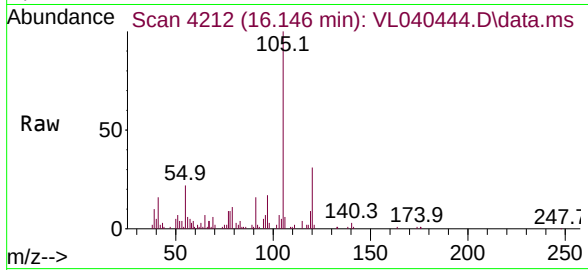
Tgt Ion:105 Resp: 29962
Ion Ratio Lower Upper
105 100
120 41.2 35.2 52.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.242 ppbv m
 RT: 16.146 min Scan# 41
 Delta R.T. 0.013 min
 Lab File: VL040444.D
 Acq: 16 May 2023 19:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3



Tgt Ion:	105	Resp:	7840
Ion	Ratio	Lower	Upper
105	100		
120	30.5	38.1	57.1
91	15.8	40.2	60.2
77	8.5	19.0	28.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2023
 Supervised By :Mahesh Dadoda 05/17/2023

