

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082224\
 Data File : VL041588.D
 Acq On : 22 Aug 2024 15:37
 Operator : SY/MD
 Sample : P3710-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CD130

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

Quant Time: Aug 23 01:33:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 23 01:33:14 2024

QLast Update : Fri Aug 23 01:15:26 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	888505	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2312077	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2199054	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.760	95	1689958	9.986	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	41408	0.271	ppbv	90
3) Chlorodifluoromethane	2.690	51	15643992	147.903	ppbv #	74
4) Chloromethane	2.832	50	21785m	0.387	ppbv	
10) Heptane	7.577	43	30885m	0.283	ppbv	
11) Trichlorofluoromethane	3.571	101	34465	0.254	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.069	101	18217m	0.186	ppbv	
13) Ethanol	3.253	45	48098	11.075	ppbv	85
15) Acetone	3.481	43	554102	5.489	ppbv	98
17) tert-Butyl alcohol	3.902	59	15879m	0.172	ppbv	
19) Isopropyl Alcohol	3.590	45	78755	1.334	ppbv #	87
20) Methylene Chloride	3.941	84	116151	3.085	ppbv	98
23) Vinyl Acetate	4.623	43	41416	0.537	ppbv #	82
26) Hexane	5.214	57	116903	1.405	ppbv #	67
32) 1,1,1-Trichloroethane	6.002	97	13394m	0.101	ppbv	
34) 2-Butanone	4.796	43	75962	0.679	ppbv	97
35) Carbon Tetrachloride	6.491	117	122181	0.958	ppbv	99
36) Benzene	6.365	78	15851m	0.094	ppbv	
37) 1,2-Dichloroethane	5.803	62	9140	0.097	ppbv #	93
38) Trichloroethene	7.285	130	2903016	37.507	ppbv	98
43) Methyl Methacrylate	7.471	69	18483m	0.305	ppbv	
44) 2,2,4-Trimethylpentane	7.317	57	735580	2.607	ppbv	96
50) 4-Methyl-2-Pentanone	8.182	43	28819m	0.163	ppbv	
52) Tetrachloroethene	10.603	164	186281	2.854	ppbv	95
53) Toluene	9.211	91	6193536	32.913	ppbv	97
58) Ethyl Benzene	12.076	91	259709	1.025	ppbv	96
59) m/p-Xylene	12.326	91	305726	1.397	ppbv	95
60) o-Xylene	13.043	91	117249	0.566	ppbv	99
61) Styrene	12.886	104	148623	1.592	ppbv	98

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

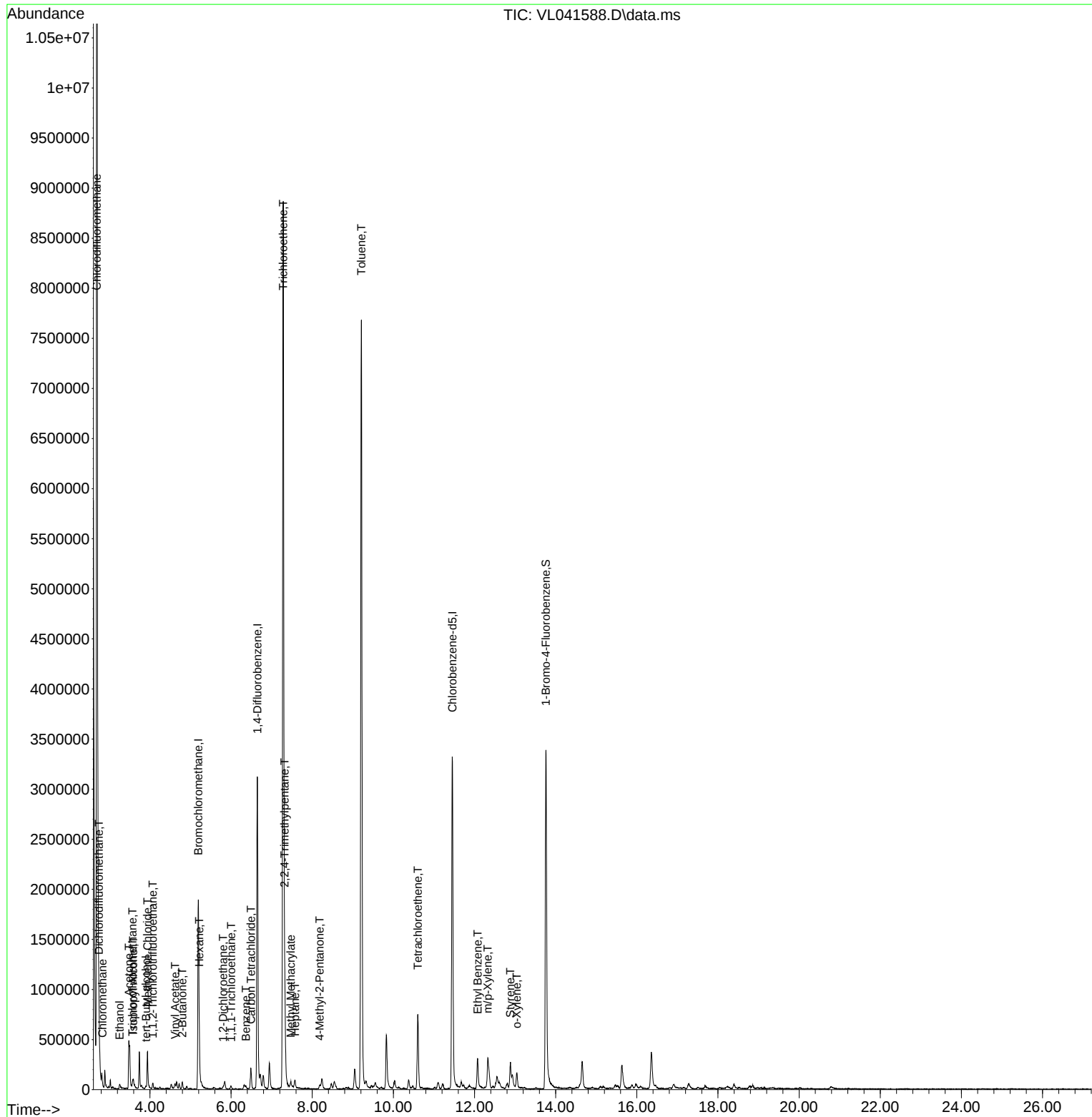
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082224\
Data File : VL041588.D
Acq On : 22 Aug 2024 15:37
Operator : SY/MD
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

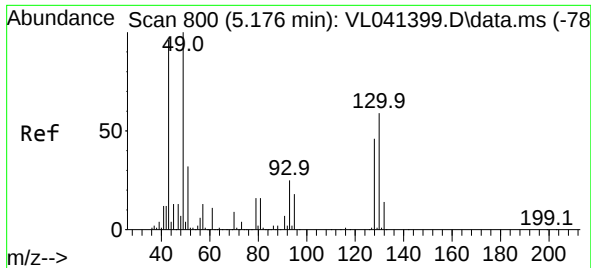
Instrument :
MSVOA_L
ClientSampleId :
CD130

Manual Integrations
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Supervised By :Mahesh Dadoda 08/23/2024

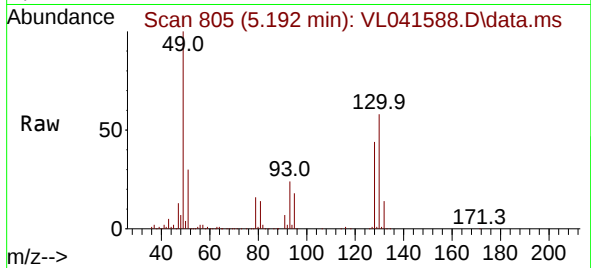
Quant Time: Aug 23 01:33:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 23 01:15:26 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

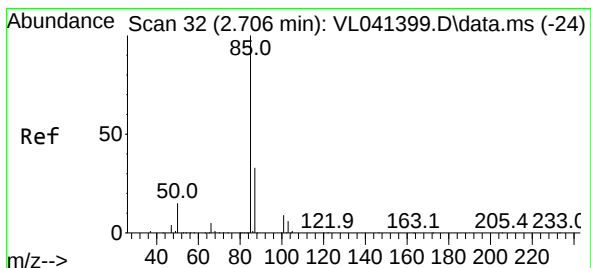
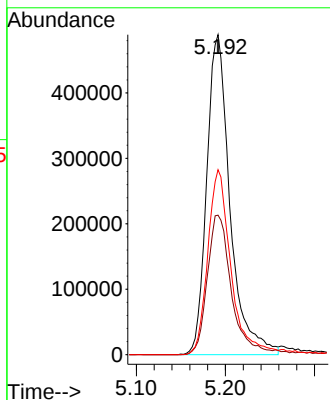
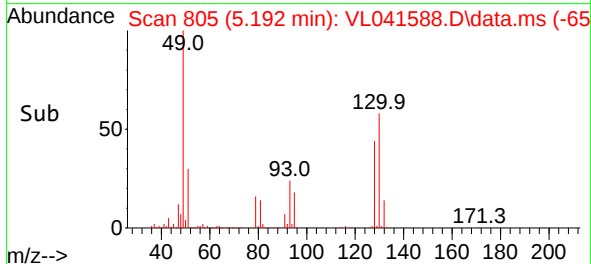
Instrument :
MSVOA_L
ClientSampleId :
CD130



Tgt Ion: 49 Resp: 88850
Ion Ratio Lower Upper
49 100
128 46.7 23.8 71.4
130 59.7 30.8 92.4

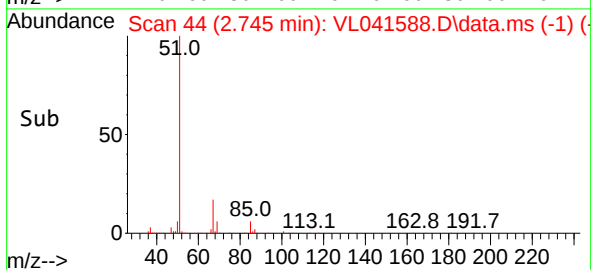
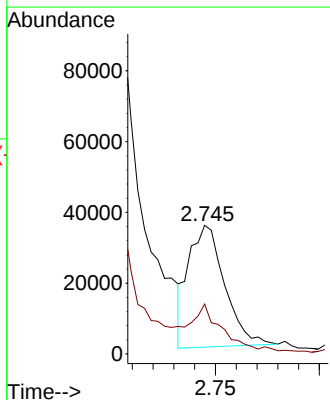
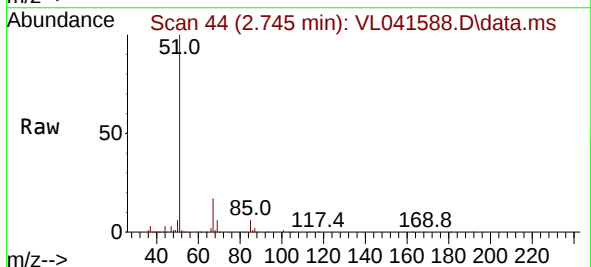
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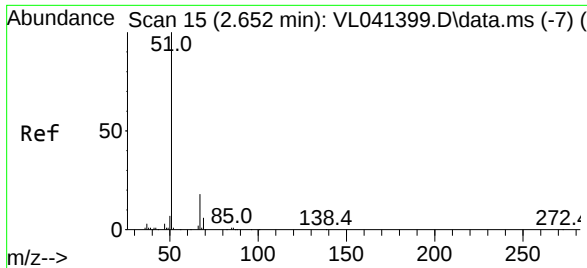
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#2
Dichlorodifluoromethane
Concen: 0.271 ppbv
RT: 2.745 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

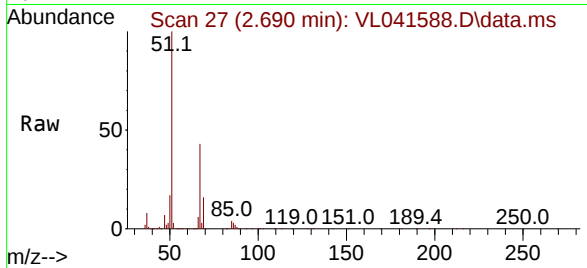
Tgt Ion: 85 Resp: 41408
Ion Ratio Lower Upper
85 100
87 38.0 26.0 39.0





#3
Chlorodifluoromethane
Concen: 147.903 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

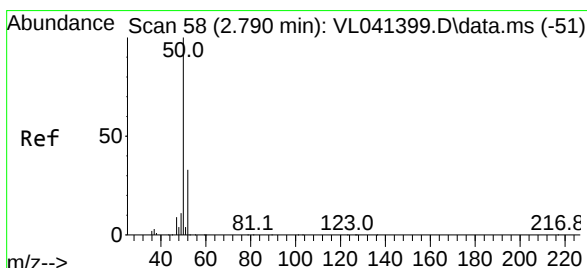
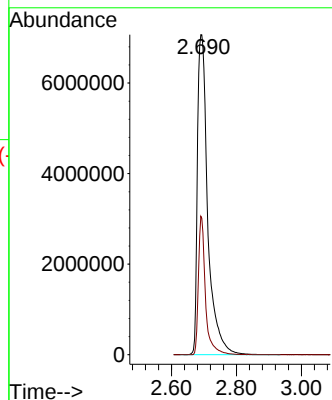
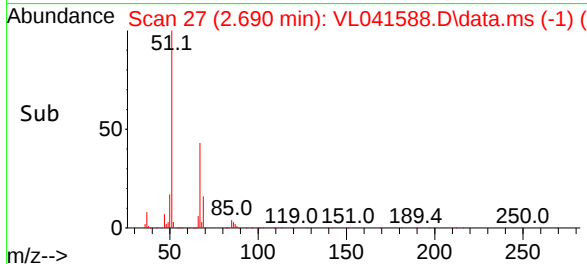
Instrument :
MSVOA_L
ClientSampleId :
CD130



Tgt Ion: 51 Resp:15643992
Ion Ratio Lower Upper
51 100
67 29.5 14.5 21.7

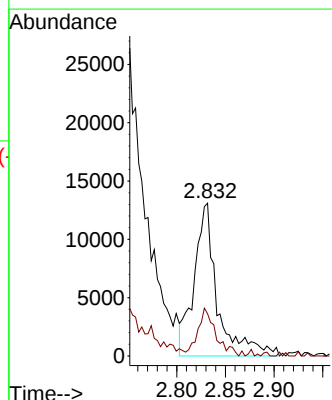
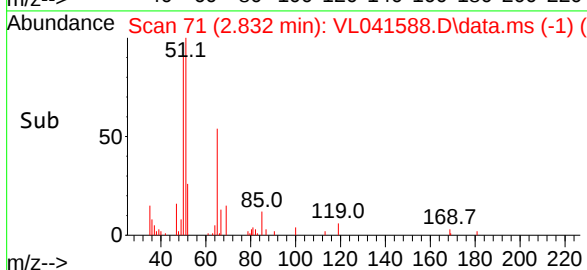
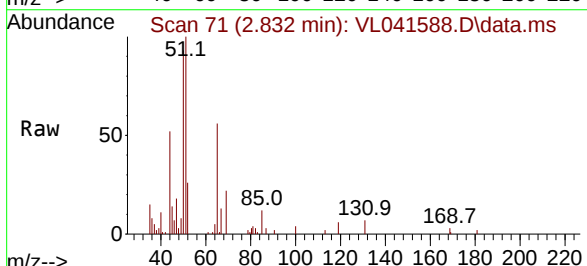
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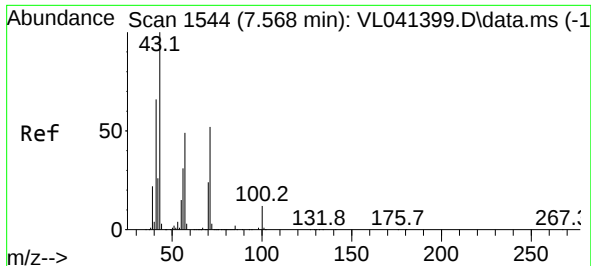
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#4
Chloromethane
Concen: 0.387 ppbv m
RT: 2.832 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Tgt Ion: 50 Resp: 21785
Ion Ratio Lower Upper
50 100
52 27.6 26.1 39.1





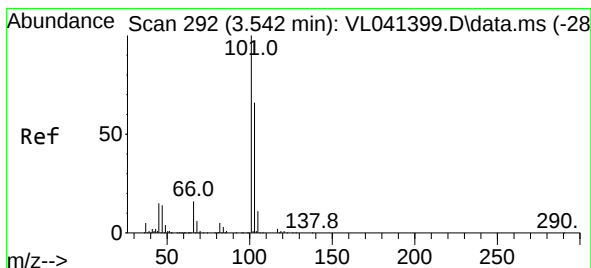
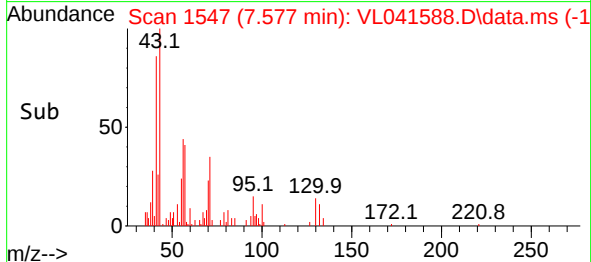
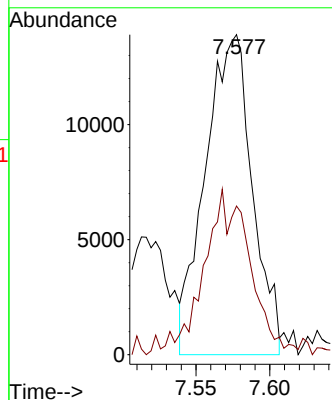
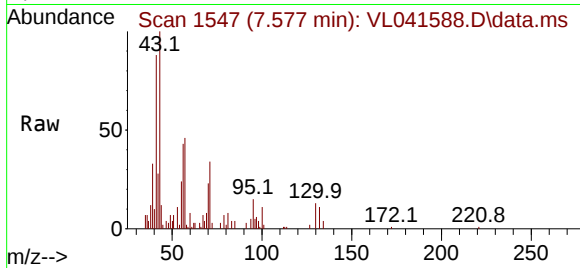
#10
Heptane
Concen: 0.283 ppbv m
RT: 7.577 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Instrument :
MSVOA_L
ClientSampleId :
CD130

Tgt Ion: 43 Resp: 3088
Ion Ratio Lower Upper
43 100
57 0.0 40.5 60.7

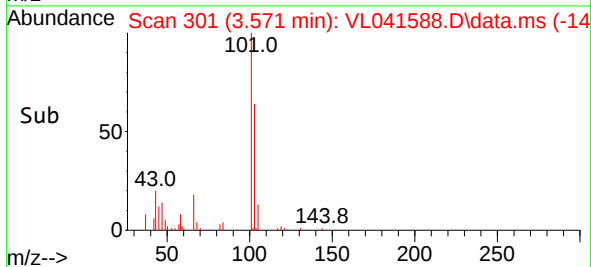
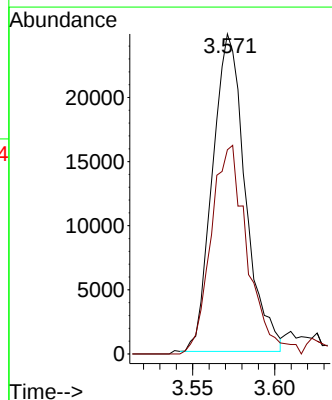
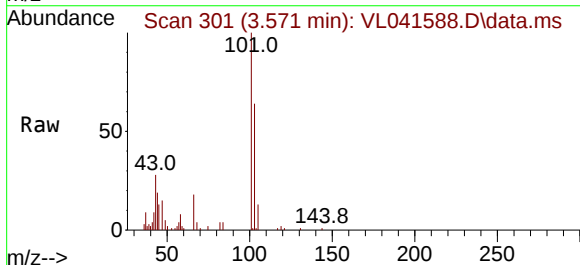
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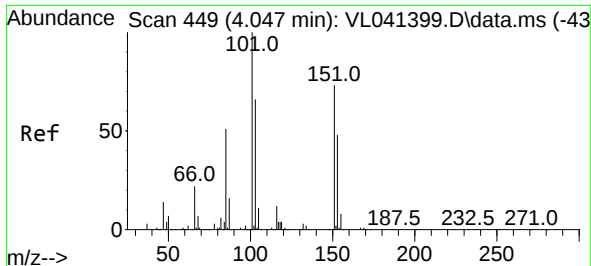
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#11
Trichlorofluoromethane
Concen: 0.254 ppbv
RT: 3.571 min Scan# 301
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Tgt Ion:101 Resp: 34465
Ion Ratio Lower Upper
101 100
103 64.3 52.6 79.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.186 ppbv m

RT: 4.069 min Scan# 4

Delta R.T. -0.003 min

Lab File: VL041588.D

Acq: 22 Aug 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

CD130

Tgt Ion:101 Resp: 1821

Ion Ratio Lower Upper

101 100

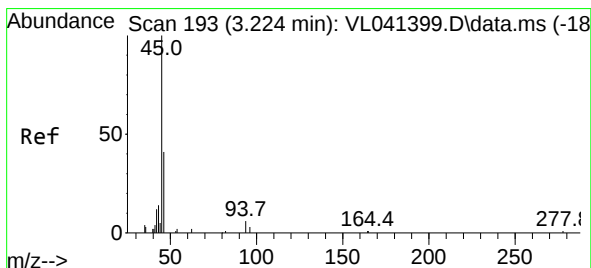
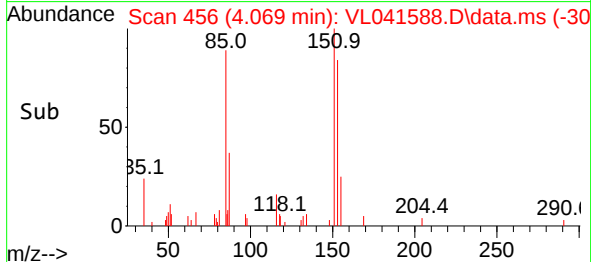
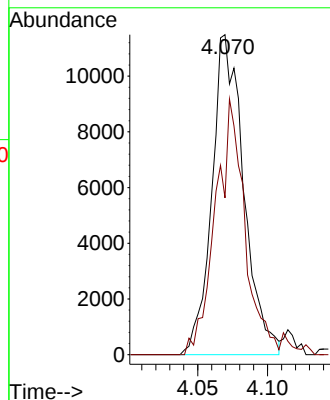
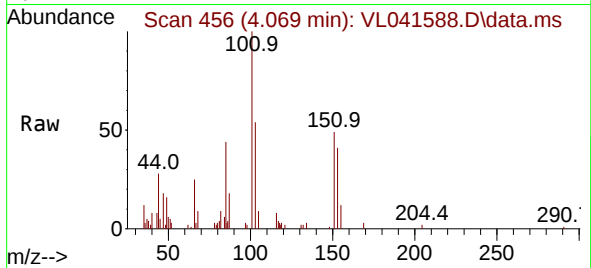
151 76.0 59.4 89.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/23/2024

Supervised By :Mahesh Dadoda 08/23/2024



#13

Ethanol

Concen: 11.075 ppbv

RT: 3.253 min Scan# 202

Delta R.T. -0.010 min

Lab File: VL041588.D

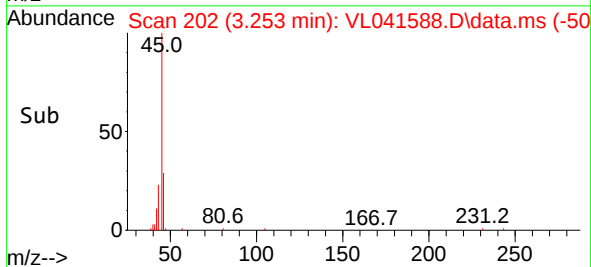
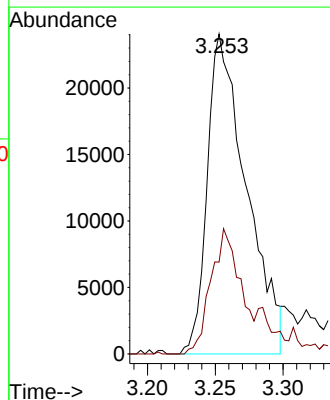
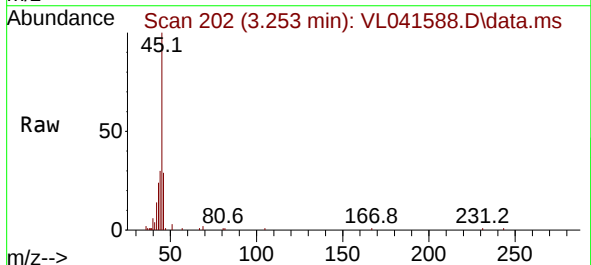
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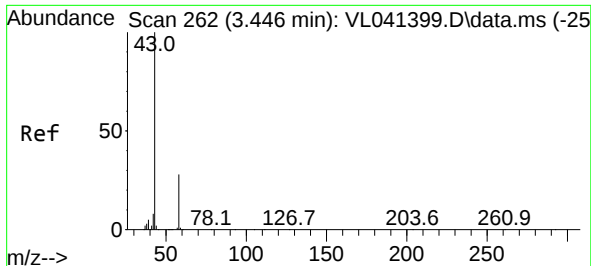
Tgt Ion: 45 Resp: 48098

Ion Ratio Lower Upper

45 100

46 42.0 13.4 53.4





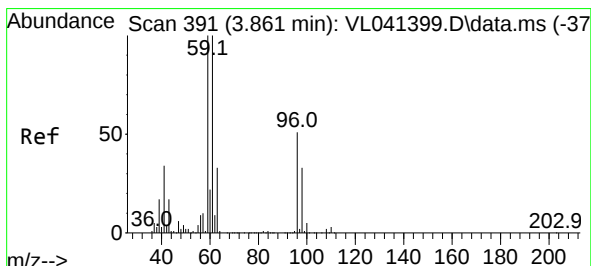
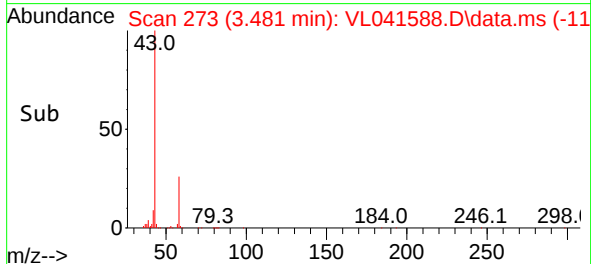
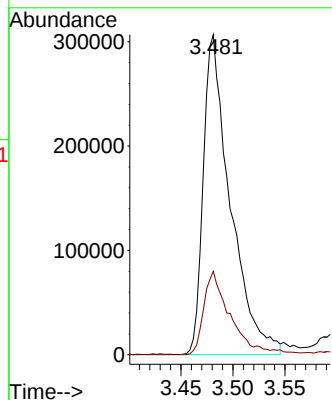
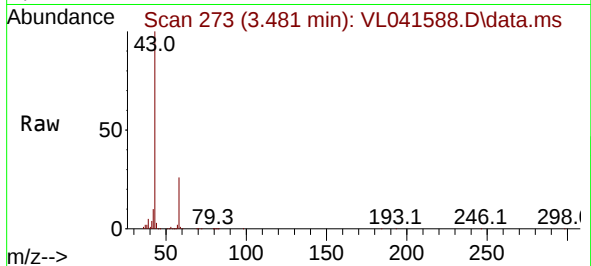
#15
Acetone
Concen: 5.489 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Instrument :
MSVOA_L
ClientSampleId :
CD130

Tgt Ion: 43 Resp: 55410
Ion Ratio Lower Upper
43 100
58 25.8 21.4 32.2

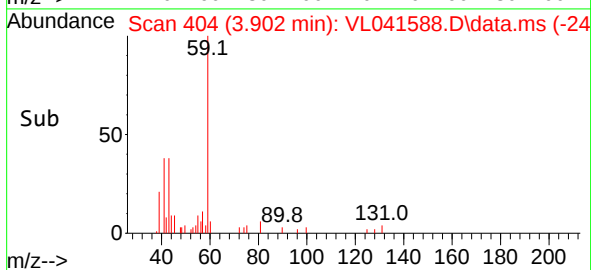
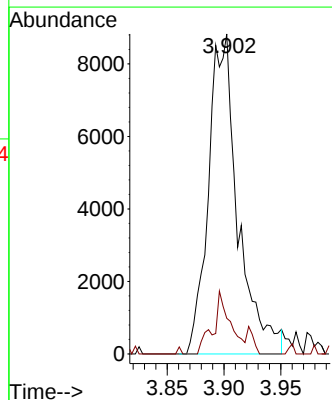
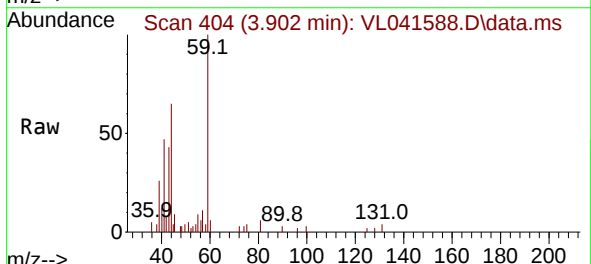
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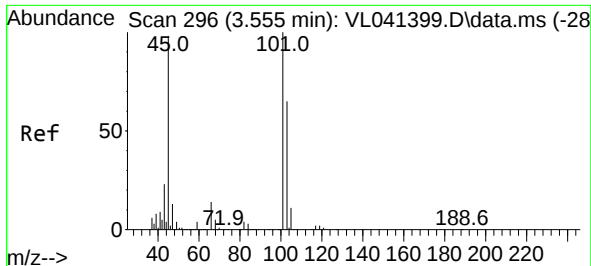
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#17
tert-Butyl alcohol
Concen: 0.172 ppbv m
RT: 3.902 min Scan# 404
Delta R.T. 0.019 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

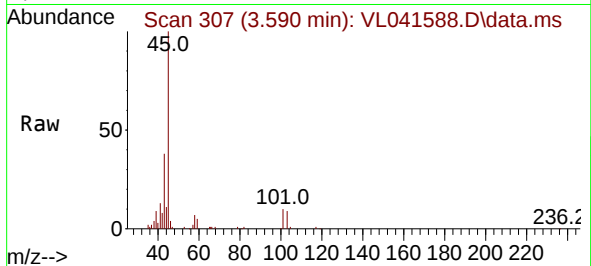
Tgt Ion: 59 Resp: 15879
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19
Isopropyl Alcohol
Concen: 1.334 ppbv
RT: 3.590 min Scan# 307
Delta R.T. 0.006 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

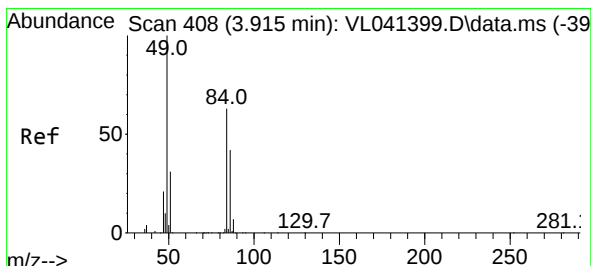
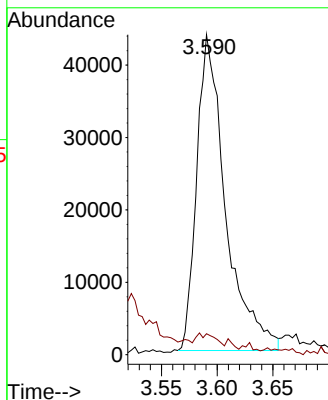
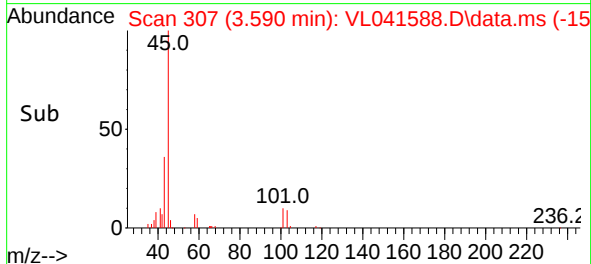
Instrument :
MSVOA_L
ClientSampleId :
CD130



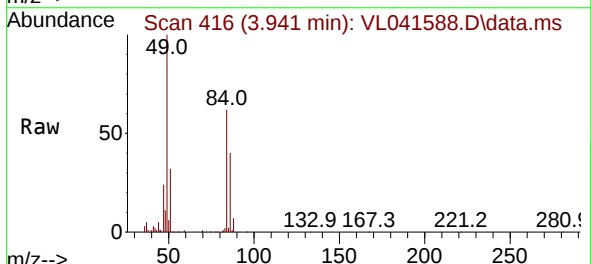
Tgt Ion: 45 Resp: 7875
Ion Ratio Lower Upper
45 100
58 6.7 1.9 2.9

Manual Integrations
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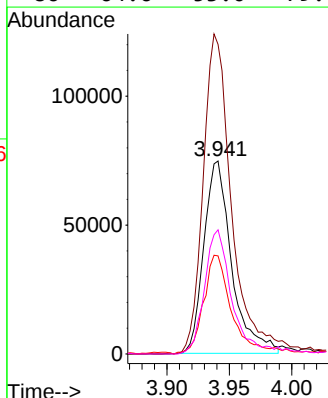
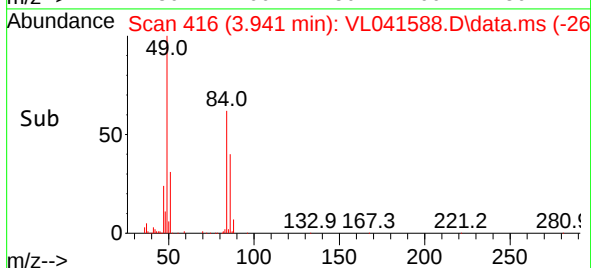
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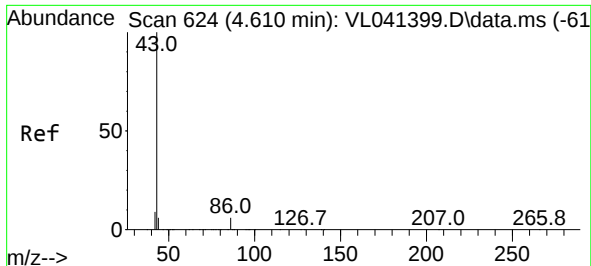


#20
Methylene Chloride
Concen: 3.085 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37



Tgt Ion: 84 Resp: 116151
Ion Ratio Lower Upper
84 100
49 160.7 126.6 190.0
51 50.1 38.6 58.0
86 64.6 53.0 79.4





#23
 Vinyl Acetate
 Concen: 0.537 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: VL041588.D
 Acq: 22 Aug 2024 15:37

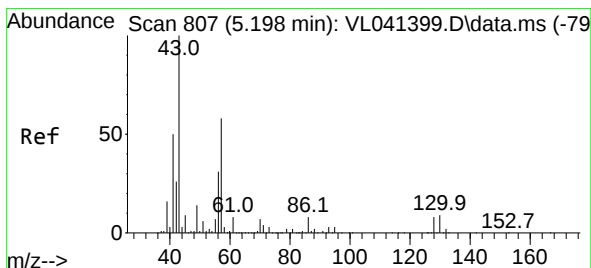
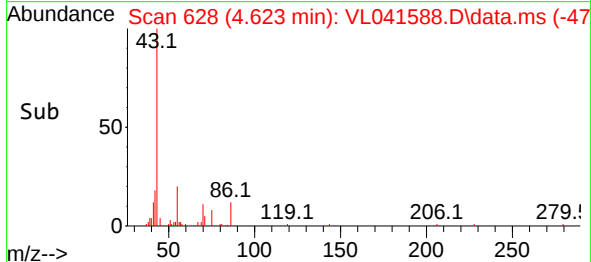
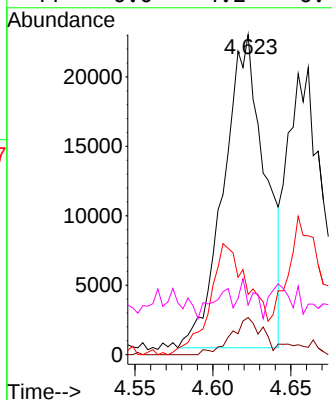
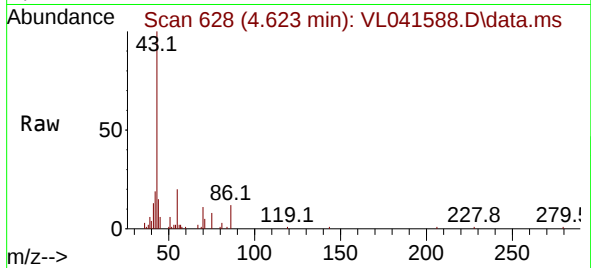
Instrument :
 MSVOA_L
 ClientSampleId :
 CD130

Tgt Ion: 43 Resp: 41410

Ion	Ratio	Lower	Upper
43	100		
86	11.9	4.6	6.8
42	17.2	7.9	11.9
44	0.0	4.2	6.4

Manual Integrations
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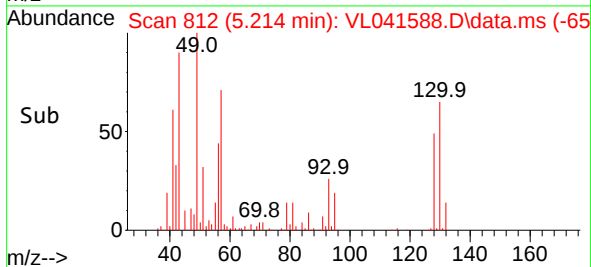
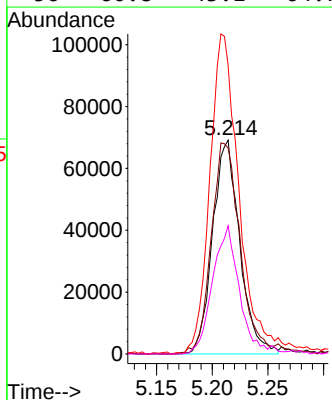
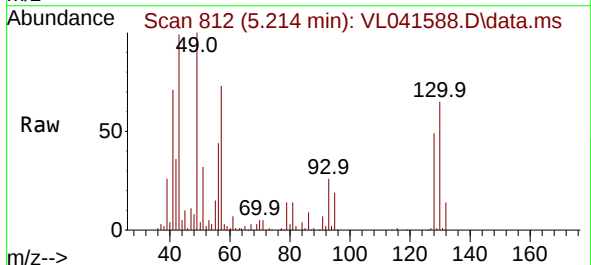
Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

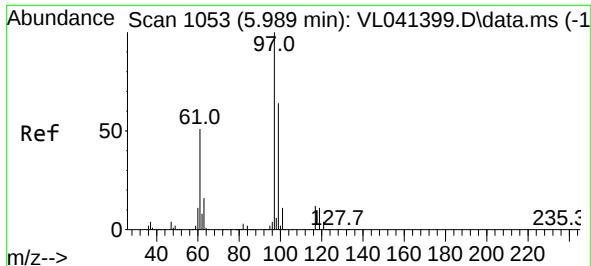


#26
 Hexane
 Concen: 1.405 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. -0.000 min
 Lab File: VL041588.D
 Acq: 22 Aug 2024 15:37

Tgt Ion: 57 Resp: 116903

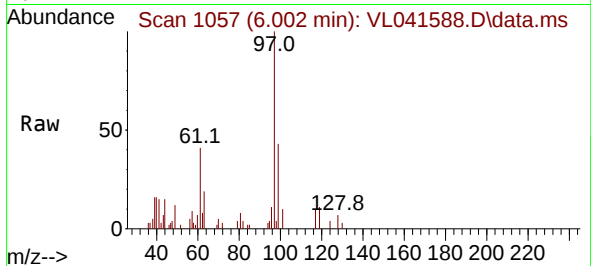
Ion	Ratio	Lower	Upper
57	100		
41	107.4	74.0	111.0
43	164.4	193.6	290.4
56	60.8	43.1	64.7





#32
 1,1,1-Trichloroethane
 Concen: 0.101 ppbv m
 RT: 6.002 min Scan# 1057
 Delta R.T. -0.000 min
 Lab File: VL041588.D
 Acq: 22 Aug 2024 15:37

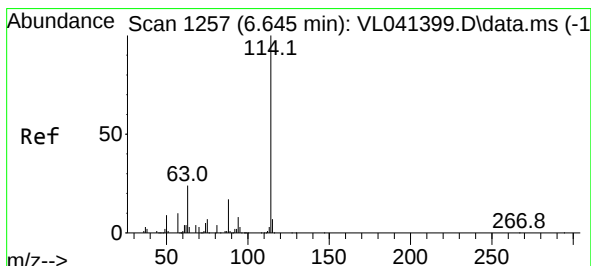
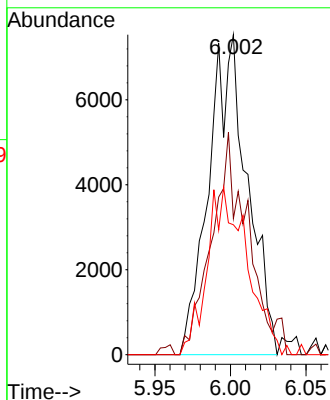
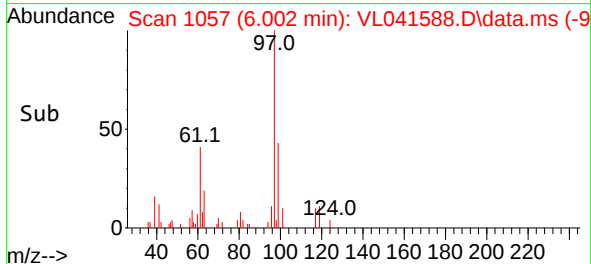
Instrument :
 MSVOA_L
 ClientSampleId :
 CD130



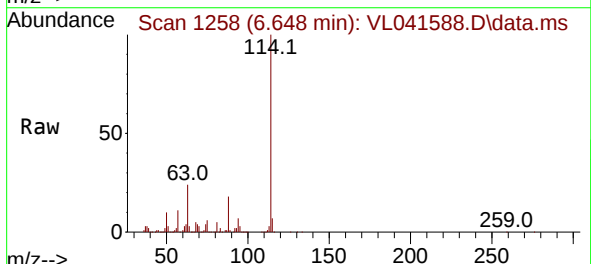
Tgt Ion: 97 Resp: 13394
 Ion Ratio Lower Upper
 97 100
 99 66.1 52.0 78.0
 61 54.3 41.8 62.8

Manual Integrations
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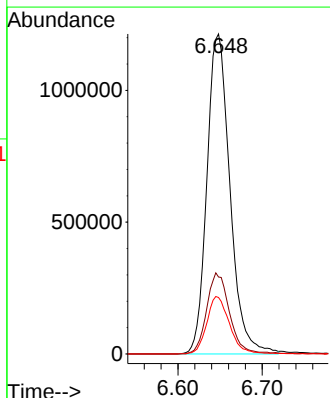
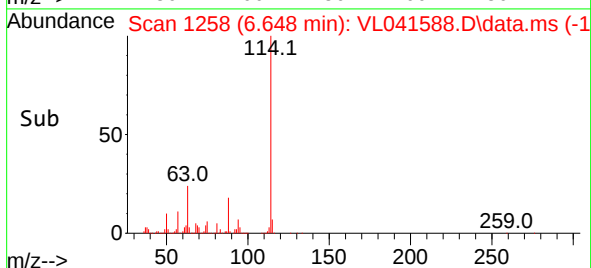
Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024

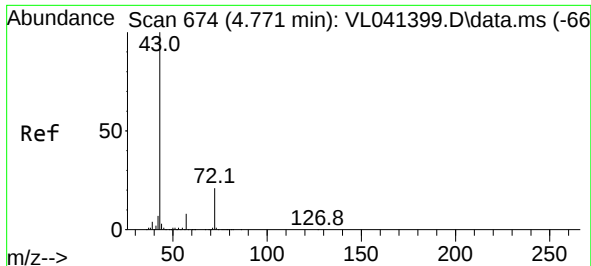


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.648 min Scan# 1258
 Delta R.T. -0.000 min
 Lab File: VL041588.D
 Acq: 22 Aug 2024 15:37



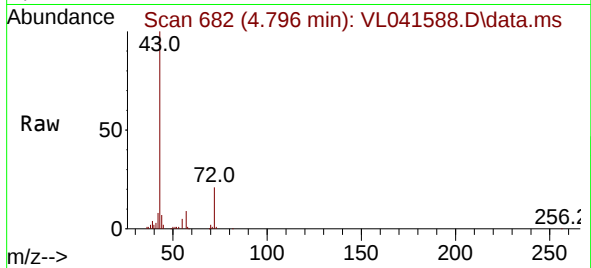
Tgt Ion:114 Resp: 2312077
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.3 30.5
 88 17.8 14.3 21.5





#34
2-Butanone
Concen: 0.679 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

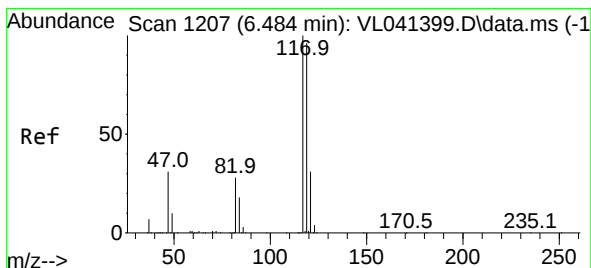
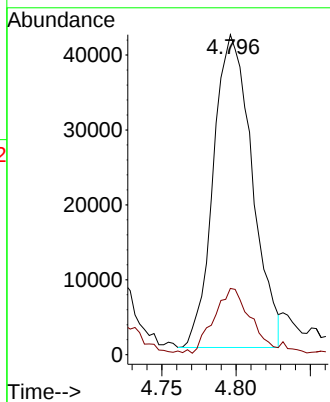
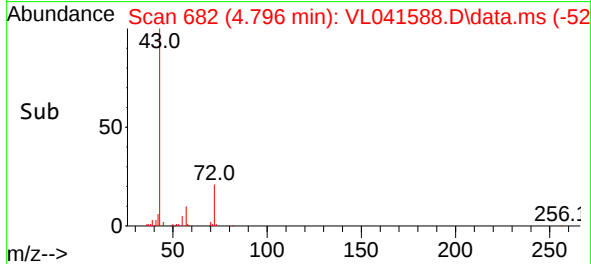
Instrument :
MSVOA_L
ClientSampleId :
CD130



Tgt Ion: 43 Resp: 75962
Ion Ratio Lower Upper
43 100
72 23.2 17.3 25.9

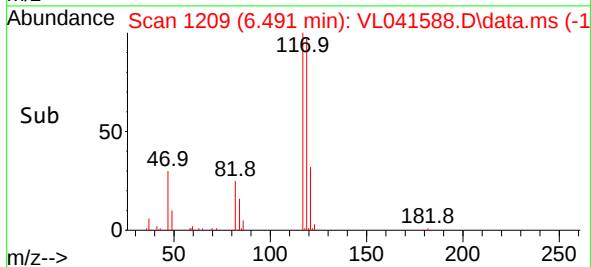
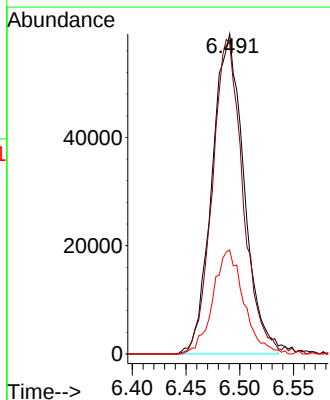
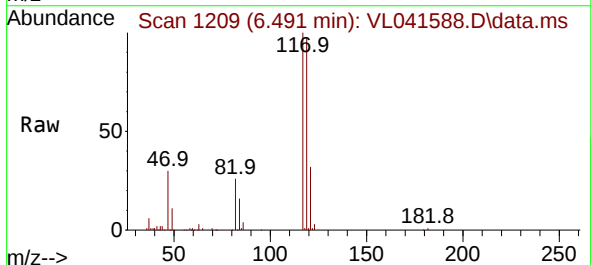
Manual Integrations
APPROVED

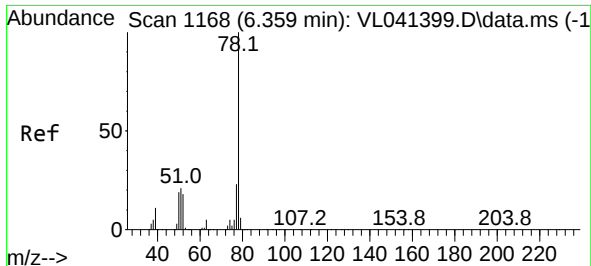
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#35
Carbon Tetrachloride
Concen: 0.958 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

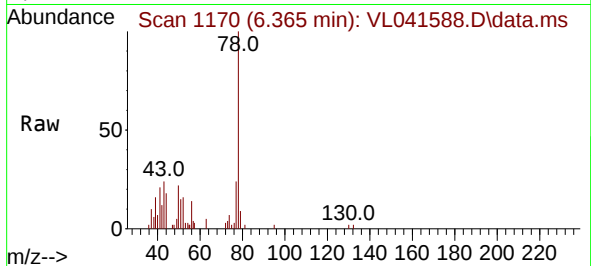
Tgt Ion:117 Resp: 122181
Ion Ratio Lower Upper
117 100
119 96.9 76.6 115.0
121 32.5 25.1 37.7





#36
Benzene
Concen: 0.094 ppbv m
RT: 6.365 min Scan# 1168
Delta R.T. -0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

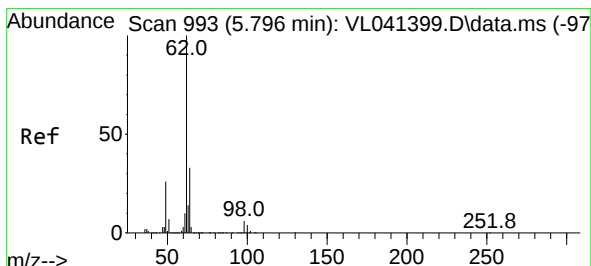
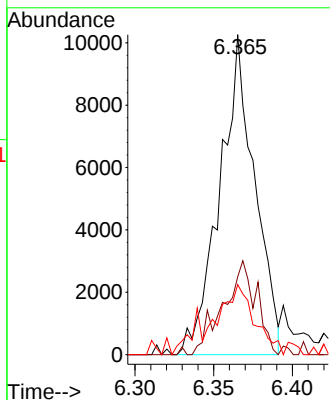
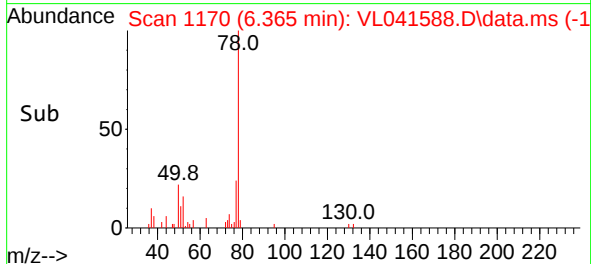
Instrument :
MSVOA_L
ClientSampleId :
CD130



Tgt Ion: 78 Resp: 1585
Ion Ratio Lower Upper
78 100
77 24.3 18.1 27.1
50 21.9 15.5 23.3

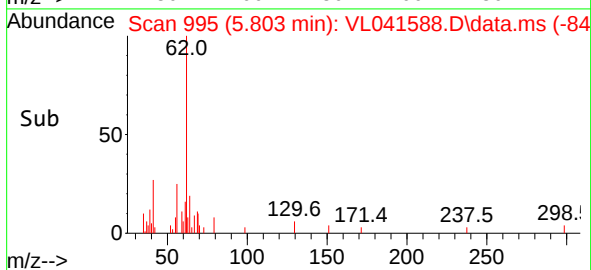
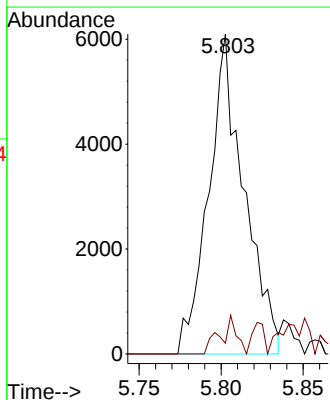
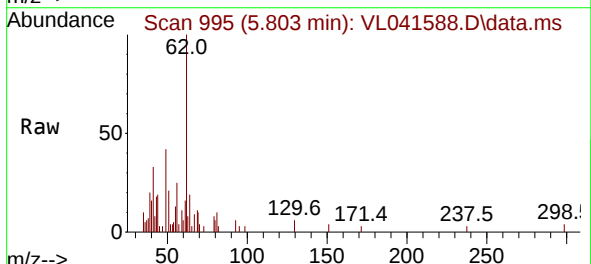
Manual Integrations
APPROVED

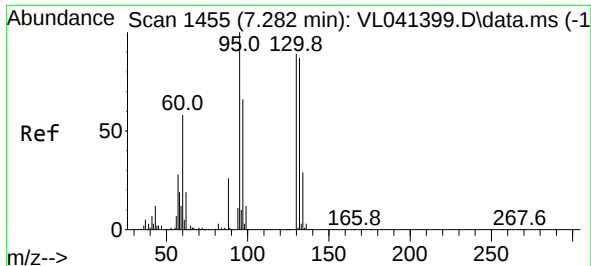
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#37
1,2-Dichloroethane
Concen: 0.097 ppbv
RT: 5.803 min Scan# 995
Delta R.T. -0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

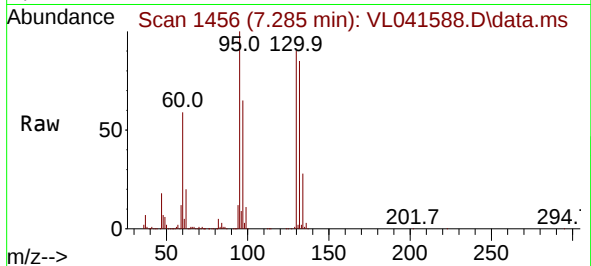
Tgt Ion: 62 Resp: 9140
Ion Ratio Lower Upper
62 100
98 8.7 5.0 7.4#





#38
 Trichloroethene
 Concen: 37.507 ppbv
 RT: 7.285 min Scan# 1455
 Delta R.T. -0.000 min
 Lab File: VL041588.D
 Acq: 22 Aug 2024 15:37

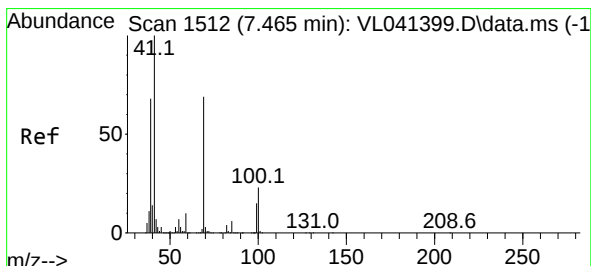
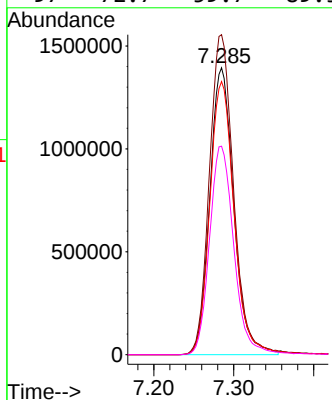
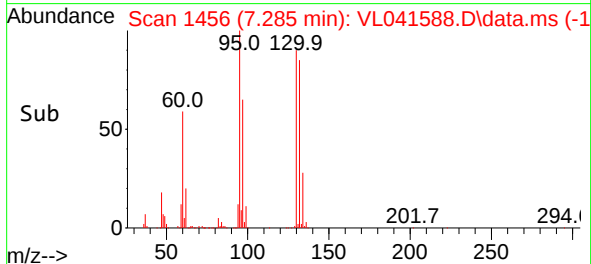
Instrument :
 MSVOA_L
 ClientSampleId :
 CD130



Tgt Ion:130 Resp: 2903010
 Ion Ratio Lower Upper
 130 100
 95 111.6 90.2 135.2
 132 95.2 78.1 117.1
 97 72.7 59.7 89.5

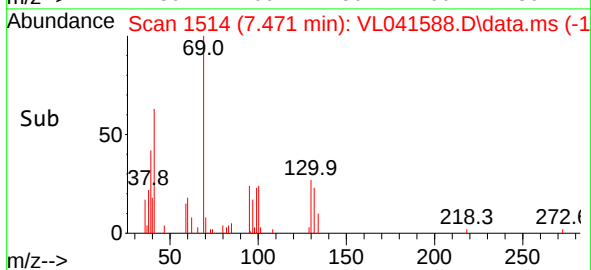
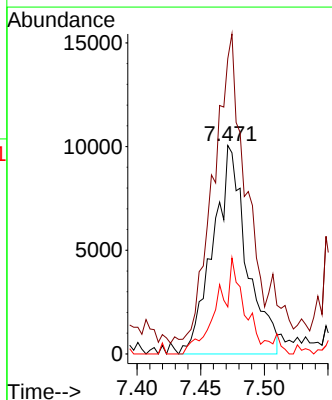
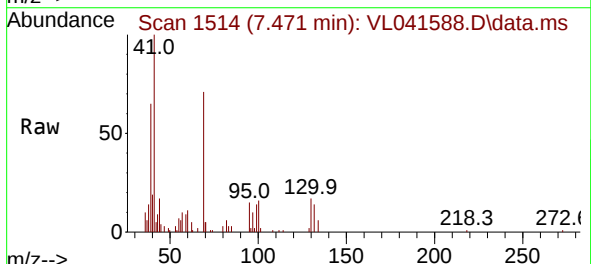
Manual Integrations
 APPROVED

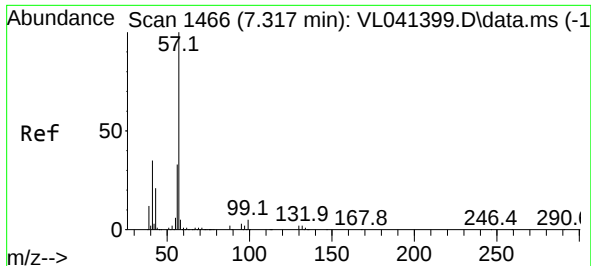
Reviewed By :Semsettin Yesilyurt 08/23/2024
 Supervised By :Mahesh Dadoda 08/23/2024



#43
 Methyl Methacrylate
 Concen: 0.305 ppbv m
 RT: 7.471 min Scan# 1514
 Delta R.T. 0.003 min
 Lab File: VL041588.D
 Acq: 22 Aug 2024 15:37

Tgt Ion: 69 Resp: 18483
 Ion Ratio Lower Upper
 69 100
 41 0.0 118.7 178.1#
 100 0.0 27.0 40.4#





#44

2,2,4-Trimethylpentane

Concen: 2.607 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. -0.003 min

Lab File: VL041588.D

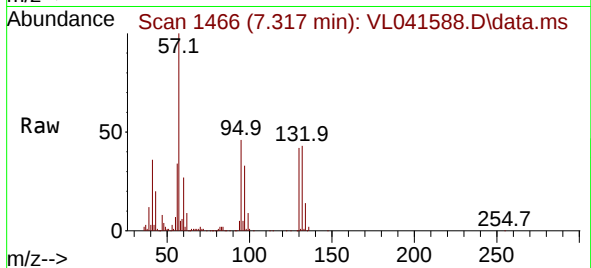
Acq: 22 Aug 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

CD130



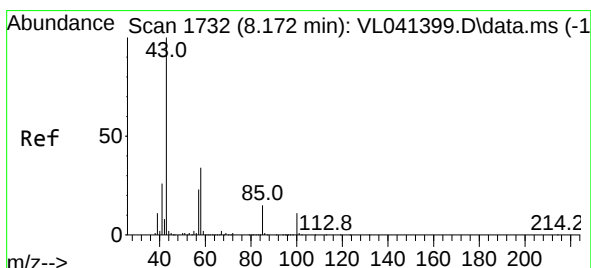
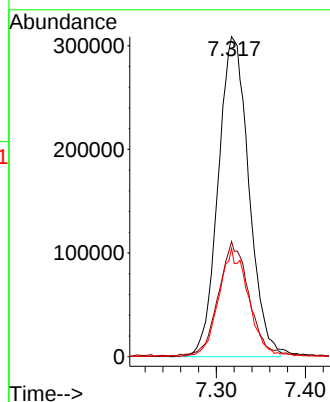
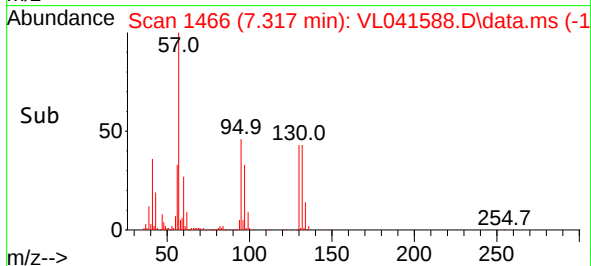
Tgt Ion: 57 Resp: 735586

Ion	Ratio	Lower	Upper
57	100		
41	36.1	27.0	40.6
56	33.5	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#50

4-Methyl-2-Pentanone

Concen: 0.163 ppbv m

RT: 8.182 min Scan# 1735

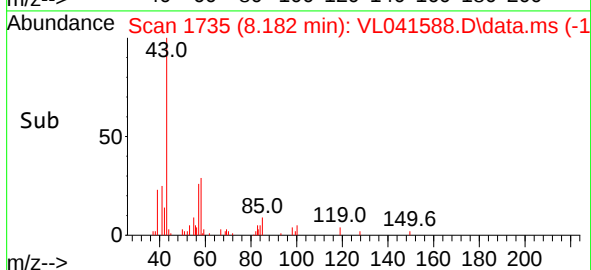
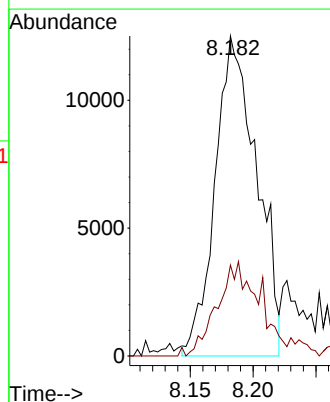
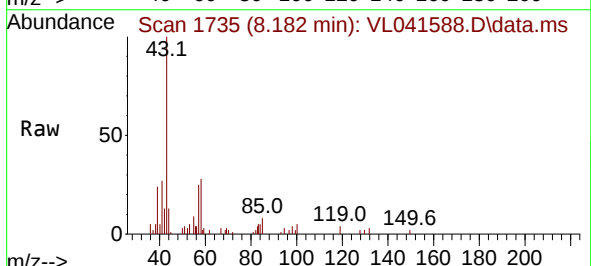
Delta R.T. 0.010 min

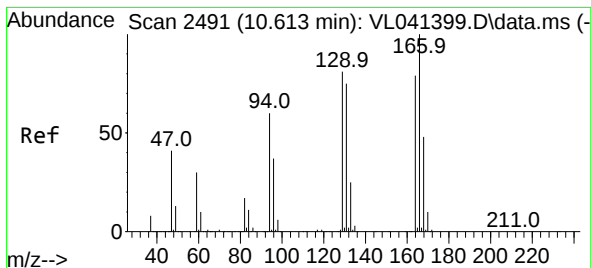
Lab File: VL041588.D

Acq: 22 Aug 2024 15:37

Tgt Ion: 43 Resp: 28819

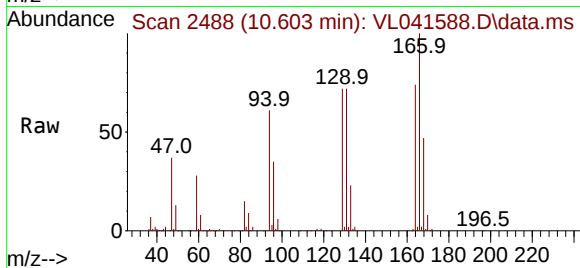
Ion	Ratio	Lower	Upper
43	100		
58	31.9	27.9	41.9





#52
Tetrachloroethene
Concen: 2.854 ppbv
RT: 10.603 min Scan# 2491
Delta R.T. -0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

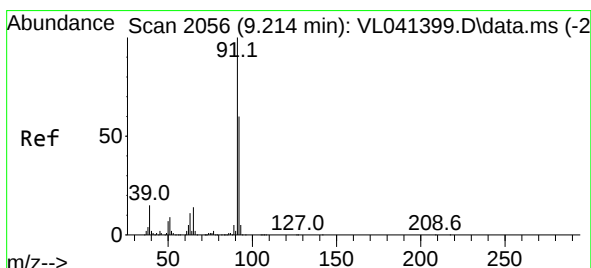
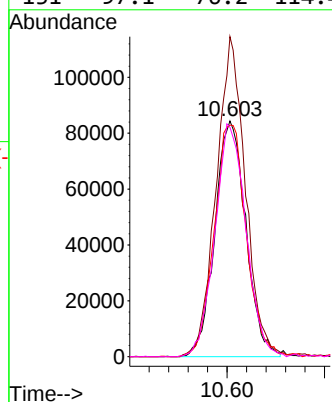
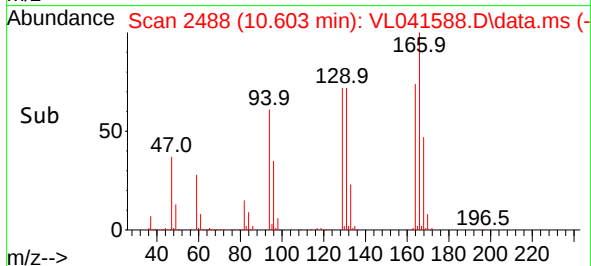
Instrument :
MSVOA_L
ClientSampleId :
CD130



Tgt Ion:164 Resp: 18628
Ion Ratio Lower Upper
164 100
166 135.8 101.1 151.7
129 98.0 81.7 122.5
131 97.1 76.2 114.4

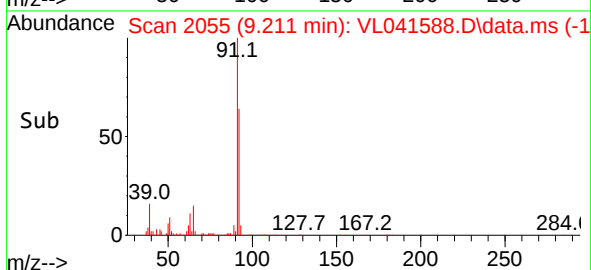
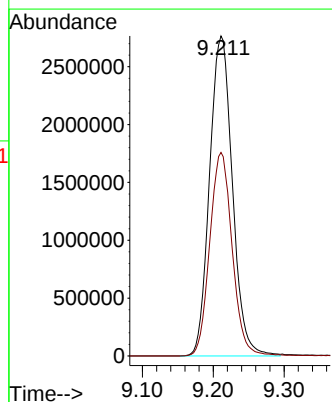
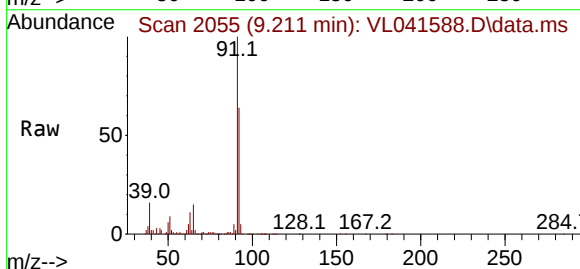
Manual Integrations
APPROVED

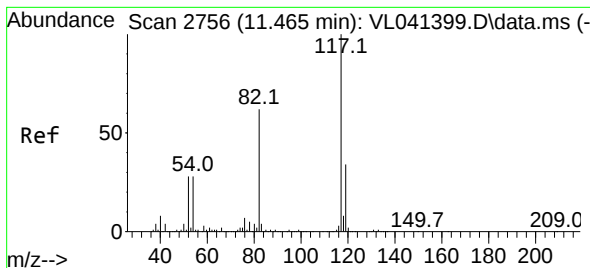
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#53
Toluene
Concen: 32.913 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

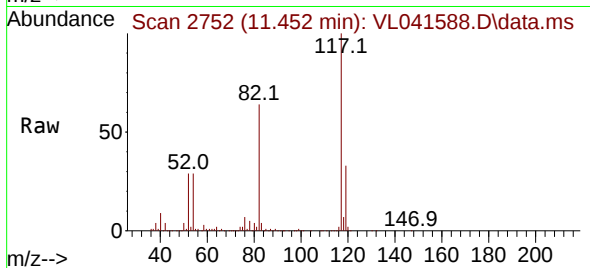
Tgt Ion: 91 Resp: 6193536
Ion Ratio Lower Upper
91 100
92 62.8 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

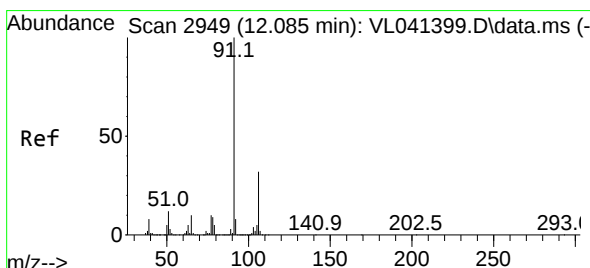
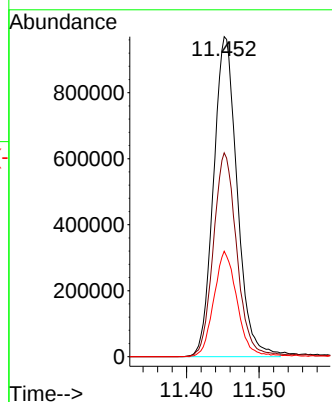
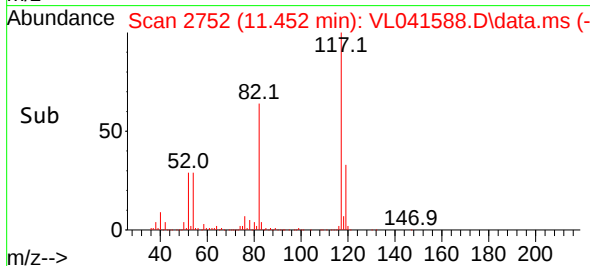
Instrument :
MSVOA_L
ClientSampleId :
CD130



Tgt Ion: 117 Resp: 2199054
Ion Ratio Lower Upper
117 100
82 63.9 51.0 76.6
119 32.9 45.2 67.8

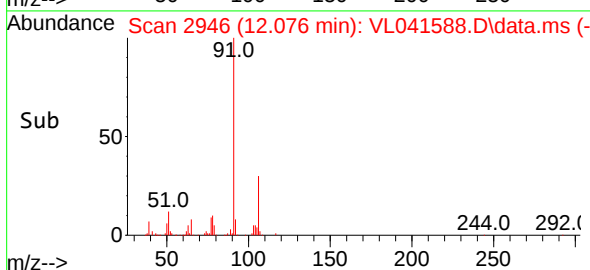
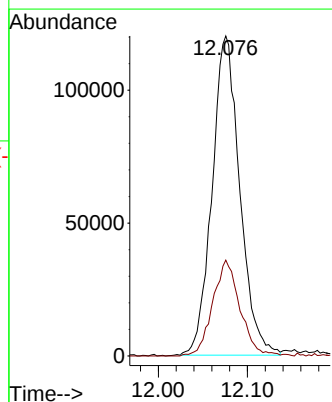
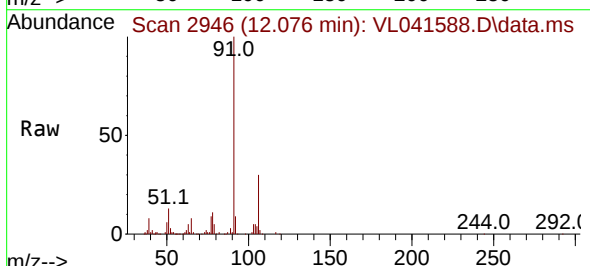
Manual Integrations
APPROVED

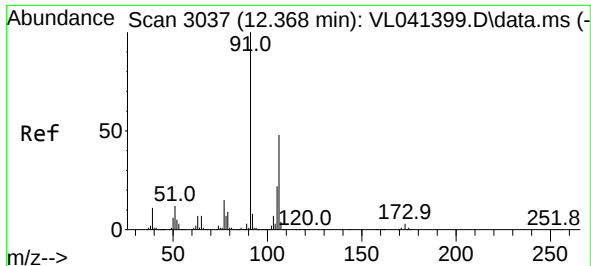
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#58
Ethyl Benzene
Concen: 1.025 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. -0.000 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Tgt Ion: 91 Resp: 259709
Ion Ratio Lower Upper
91 100
106 30.0 25.8 38.8





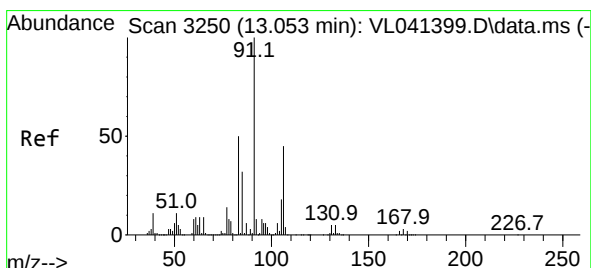
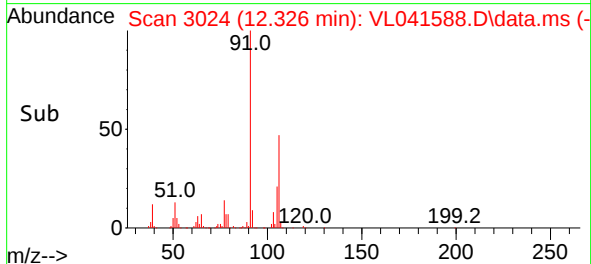
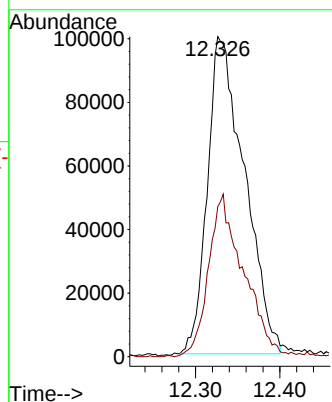
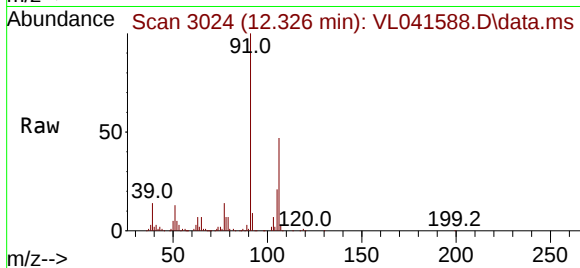
#59
m/p-Xylene
Concen: 1.397 ppbv
RT: 12.326 min Scan# 3037
Delta R.T. -0.032 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Instrument :
MSVOA_L
ClientSampleId :
CD130

Tgt Ion: 91 Resp: 305720
Ion Ratio Lower Upper
91 100
106 48.8 36.3 54.5

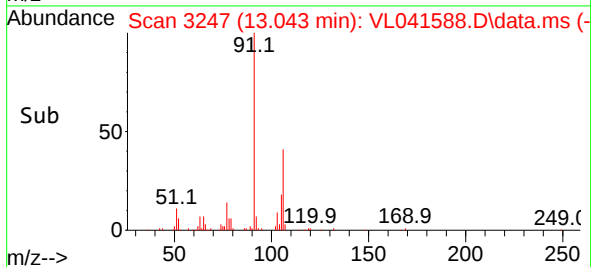
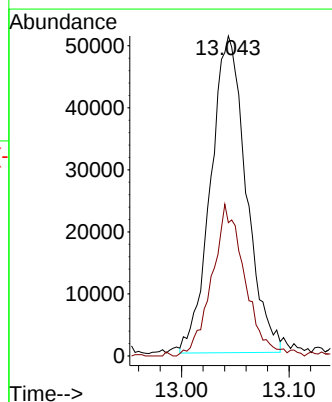
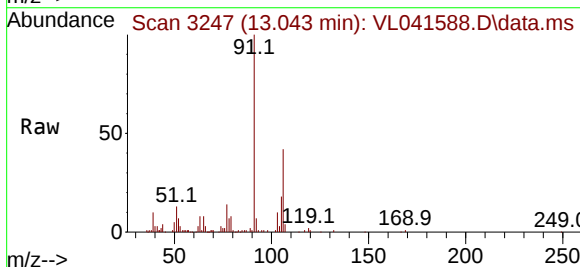
Manual Integrations
APPROVED

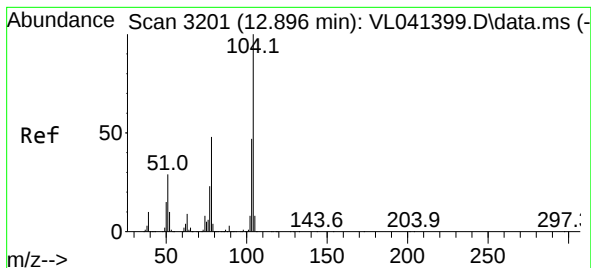
Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#60
o-Xylene
Concen: 0.566 ppbv
RT: 13.043 min Scan# 3247
Delta R.T. -0.003 min
Lab File: VL041588.D
Acq: 22 Aug 2024 15:37

Tgt Ion: 91 Resp: 117249
Ion Ratio Lower Upper
91 100
106 45.4 23.1 69.3





#61

Styrene

Concen: 1.592 ppbv

RT: 12.886 min Scan# 3198

Delta R.T. 0.003 min

Lab File: VL041588.D

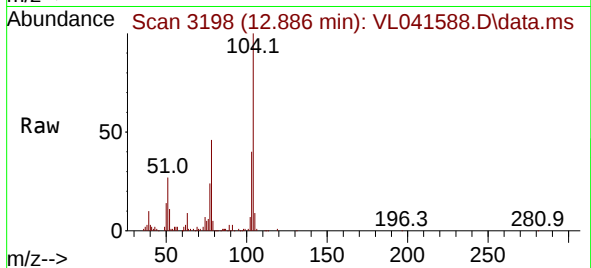
Acq: 22 Aug 2024 15:37

Instrument :

MSVOA_L

ClientSampleId :

CD130

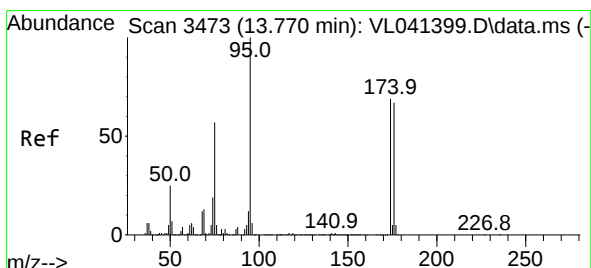
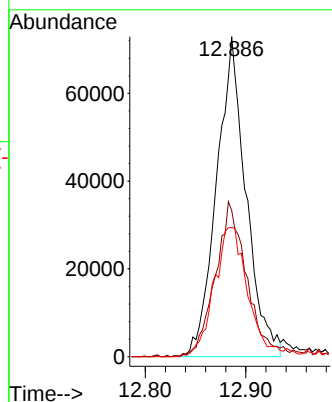
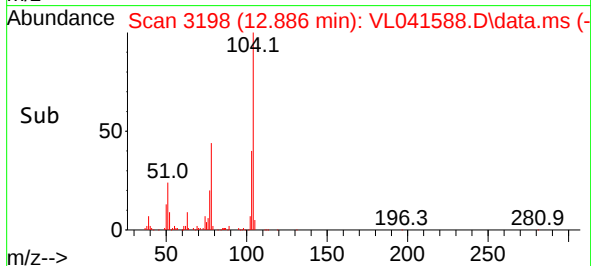


Tgt Ion:	104	Resp:	14862
Ion Ratio	Lower	Upper	
104	100		
78	53.8	40.8	61.2
103	47.7	38.2	57.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/23/2024
Supervised By :Mahesh Dadoda 08/23/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.986 ppbv

RT: 13.760 min Scan# 3470

Delta R.T. -0.003 min

Lab File: VL041588.D

Acq: 22 Aug 2024 15:37

Tgt Ion:	95	Resp:	1689958
Ion Ratio	Lower	Upper	
95	100		
174	71.7	56.3	84.5
175	5.0	4.0	6.0

