

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
 Data File : VL041168.D
 Acq On : 25 Apr 2024 13:17
 Operator : SY/MD
 Sample : P2253-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024

Quant Time: Apr 26 03:12:13 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

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

QLast Update : Fri Apr 26 03:09:28 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1212702	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	3032951	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2918328	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	2482875	10.580	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	167795	0.809	ppbv	98
9) Propene	2.694	41	1018009	17.133	ppbv	87
10) Heptane	7.555	43	80544m	0.571	ppbv	
11) Trichlorofluoromethane	3.555	101	149955	0.797	ppbv	95
13) Ethanol	3.237	45	41121	2.910	ppbv	94
15) Acetone	3.459	43	1309827	9.975	ppbv	96
20) Methylene Chloride	3.925	84	377353	6.968	ppbv	98
22) trans-1,2-Dichloroethene	4.436	96	9895m	0.162	ppbv	
26) Hexane	5.198	57	511391	4.622	ppbv #	40
27) Carbon Disulfide	4.115	76	2277483	16.798	ppbv	99
29) Chloroform	5.259	83	178270	0.956	ppbv	93
30) Cyclohexane	6.587	84	20009m	0.222	ppbv	
34) 2-Butanone	4.777	43	376017	2.930	ppbv	98
36) Benzene	6.353	78	215205	0.966	ppbv	95
38) Trichloroethene	7.266	130	87155m	1.083	ppbv	
44) 2,2,4-Trimethylpentane	7.304	57	125579	0.341	ppbv #	44
50) 4-Methyl-2-Pentanone	8.172	43	39516m	0.175	ppbv	
51) 2-Hexanone	9.536	43	171459	1.095	ppbv #	89
52) Tetrachloroethene	10.590	164	560110m	7.882	ppbv	
53) Toluene	9.198	91	494174m	2.107	ppbv	
58) Ethyl Benzene	12.063	91	306280	0.959	ppbv	90
59) m/p-Xylene	12.314	91	592162	2.052	ppbv	96
60) o-Xylene	13.034	91	303789m	1.111	ppbv	
62) Isopropylbenzene	14.002	105	52764m	0.130	ppbv	
64) n-propylbenzene	14.886	120	28116m	0.275	ppbv	
72) 4-Ethyltoluene	15.166	105	135104	0.442	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.326	105	122321m	0.454	ppbv	
74) 1,2,4-Trimethylbenzene	16.076	105	218411	0.709	ppbv #	66

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

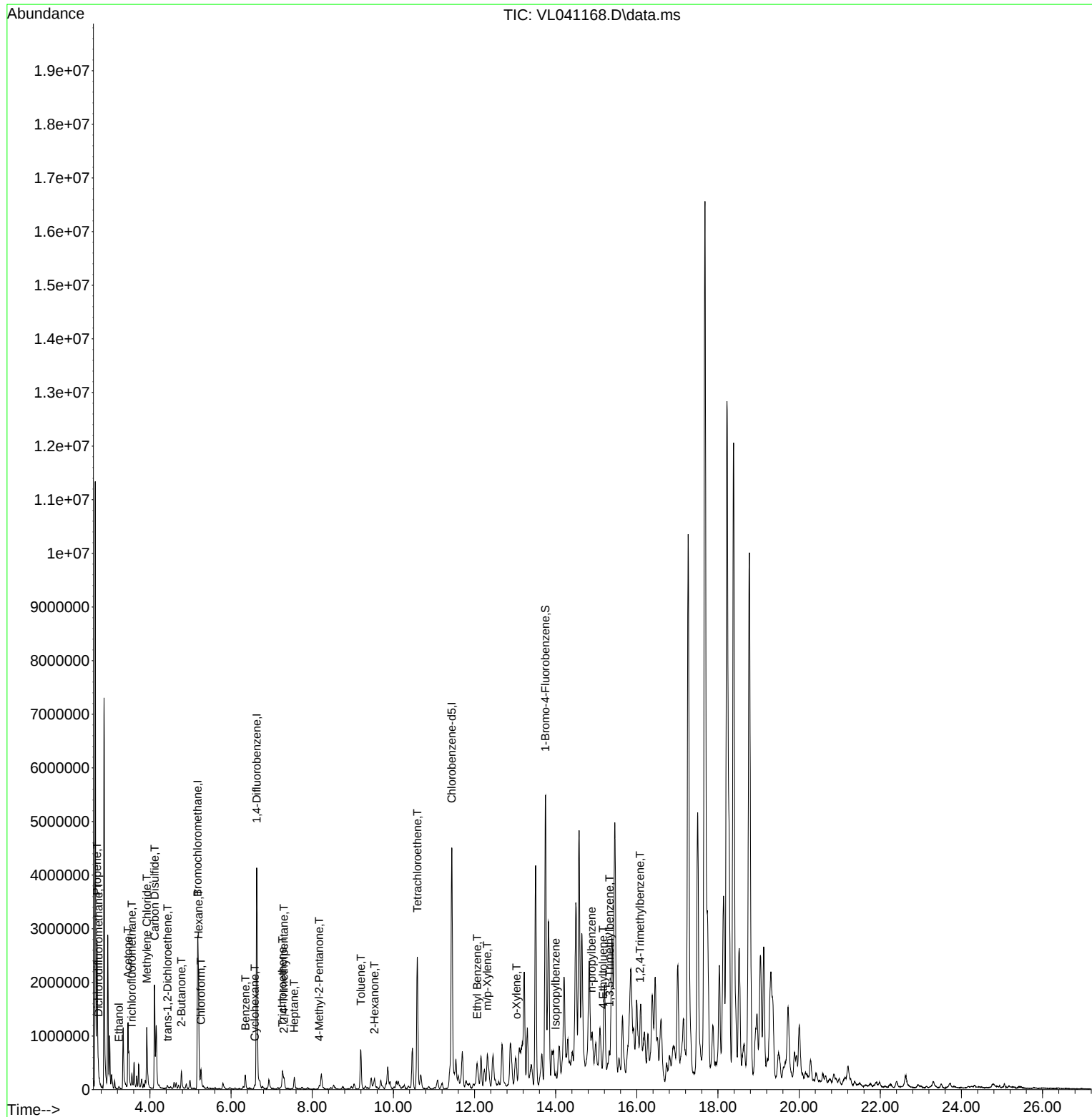
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042524\
Data File : VL041168.D
Acq On : 25 Apr 2024 13:17
Operator : SY/MD
Sample : P2253-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

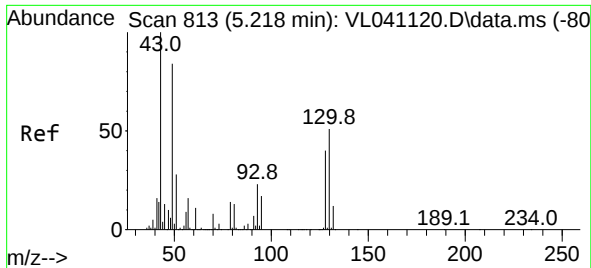
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Apr 26 03:12:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 26 03:09:28 2024
Response via : Initial Calibration

Manual Integrations
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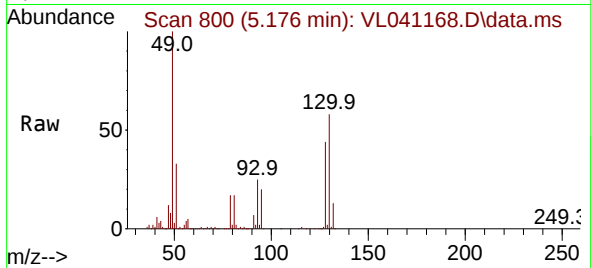
Reviewed By : Semsettin Yesilyurt 04/26/2024
Supervised By : Mahesh Dadoda 04/26/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

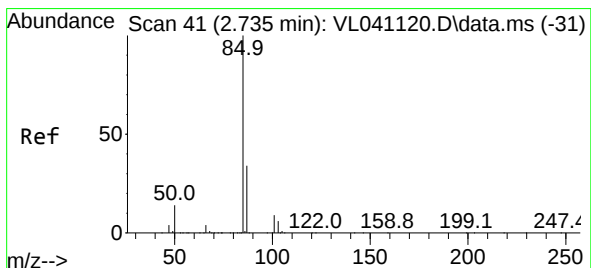
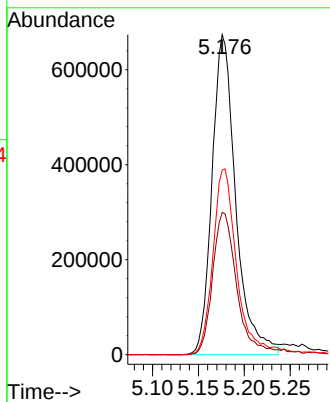
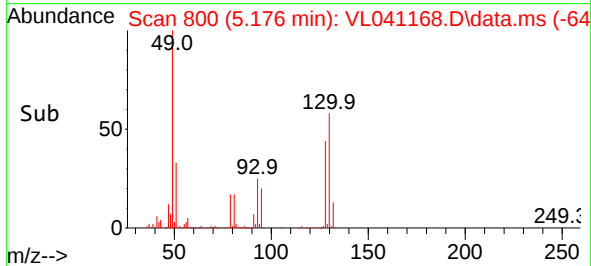
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 121270
Ion Ratio Lower Upper
49 100
128 47.2 23.6 71.0
130 60.7 30.1 90.5

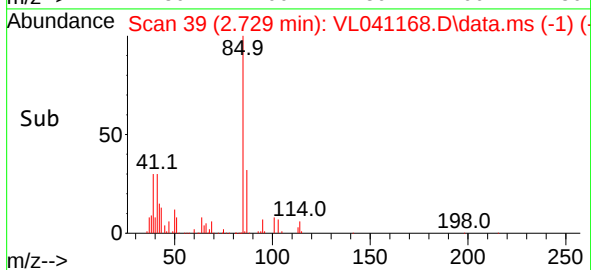
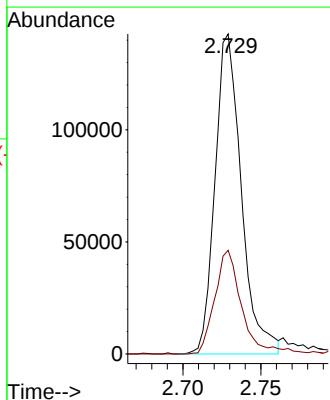
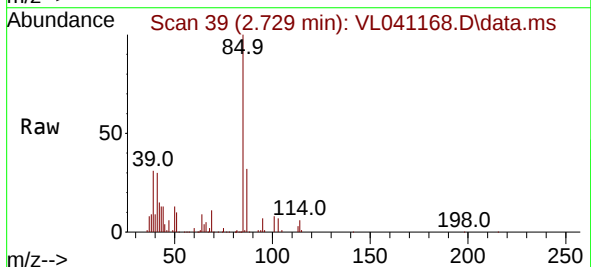
Manual Integrations
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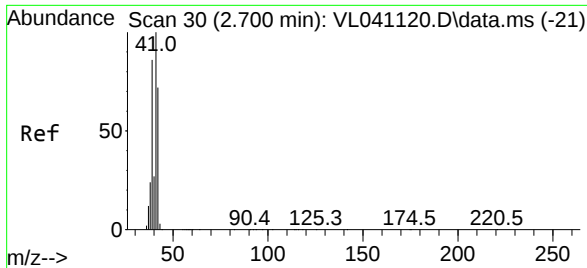
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#2
Dichlorodifluoromethane
Concen: 0.809 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

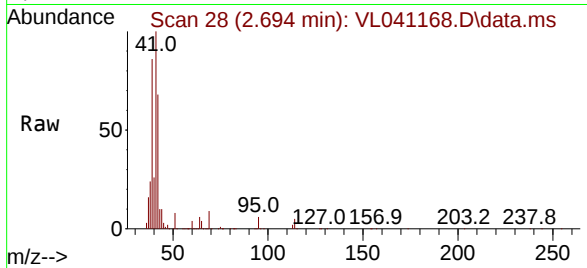
Tgt Ion: 85 Resp: 167795
Ion Ratio Lower Upper
85 100
87 32.4 27.0 40.6





#9
 Propene
 Concen: 17.133 ppbv
 RT: 2.694 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VL041168.D
 Acq: 25 Apr 2024 13:17

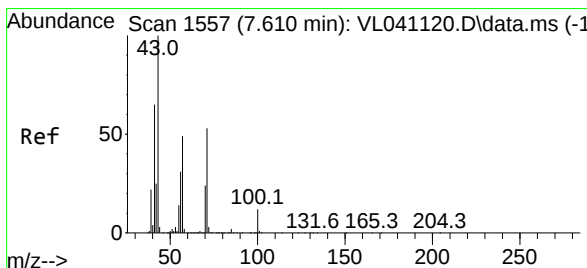
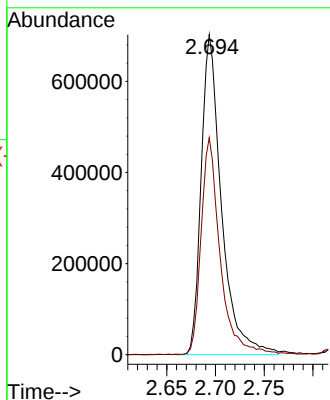
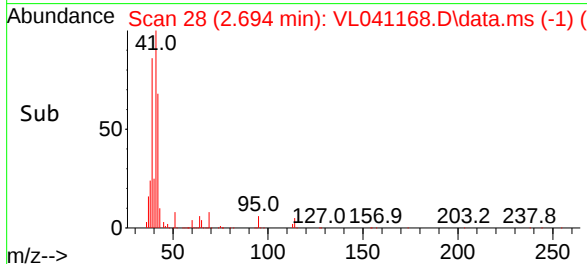
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 41 Resp: 1018009
 Ion Ratio Lower Upper
 41 100
 42 64.2 60.1 90.1

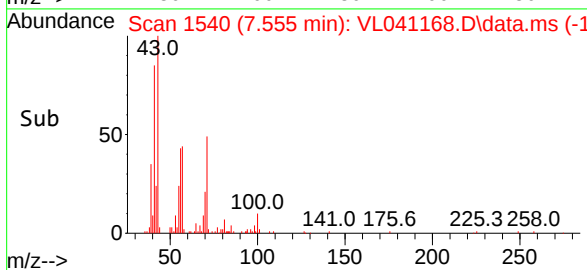
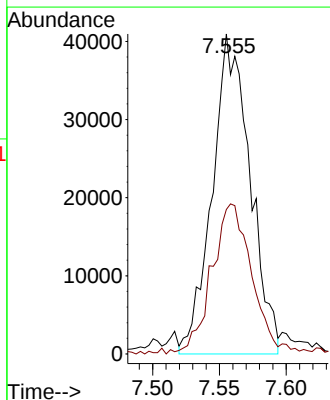
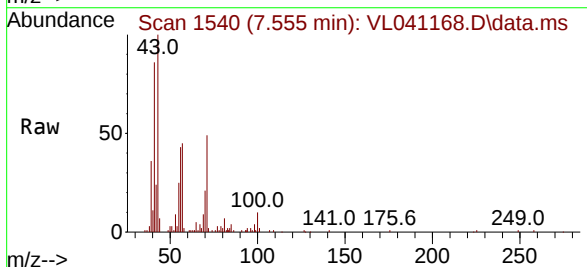
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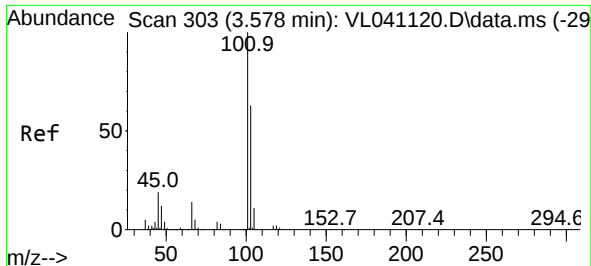
Reviewed By :Semsettin Yesilyurt 04/26/2024
 Supervised By :Mahesh Dadoda 04/26/2024



#10
 Heptane
 Concen: 0.571 ppbv m
 RT: 7.555 min Scan# 1540
 Delta R.T. -0.003 min
 Lab File: VL041168.D
 Acq: 25 Apr 2024 13:17

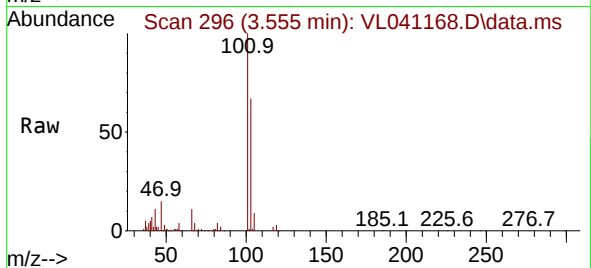
Tgt Ion: 43 Resp: 80544
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.9 59.9#





#11
Trichlorofluoromethane
Concen: 0.797 ppbv
RT: 3.555 min Scan# 24
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

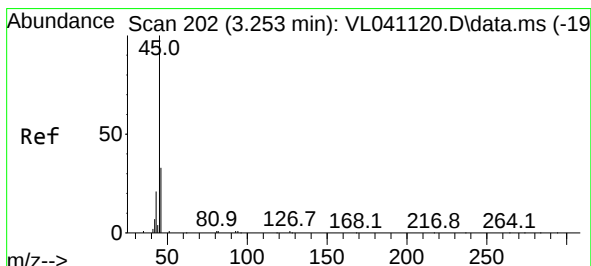
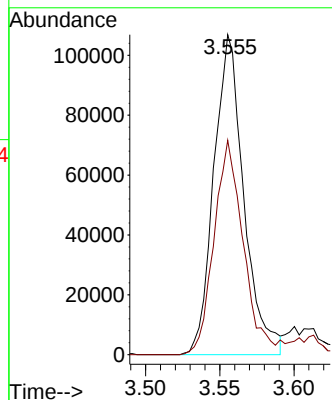
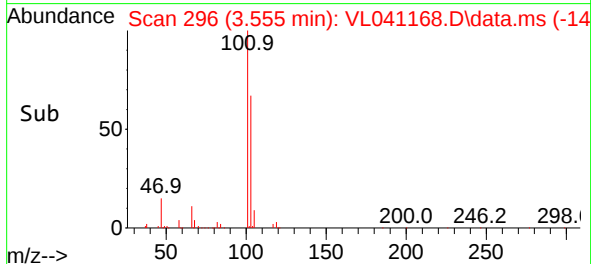
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:101 Resp: 14995
Ion Ratio Lower Upper
101 100
103 67.0 50.6 75.8

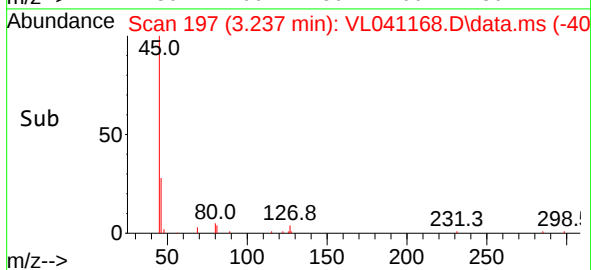
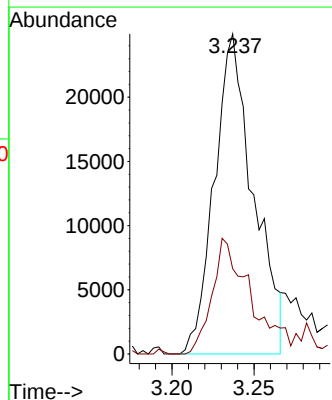
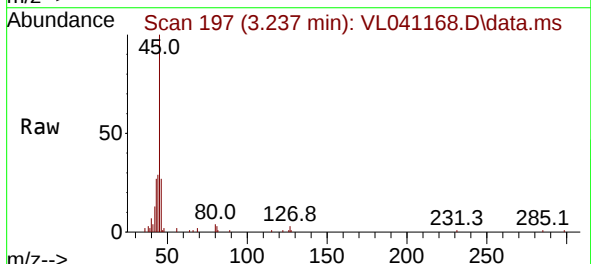
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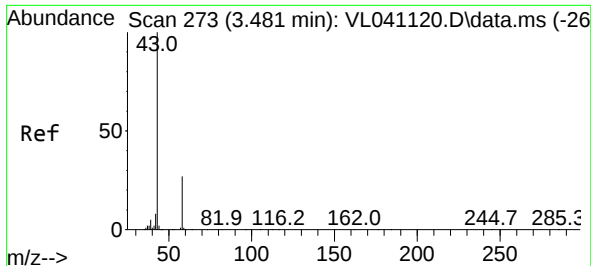
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#13
Ethanol
Concen: 2.910 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.003 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

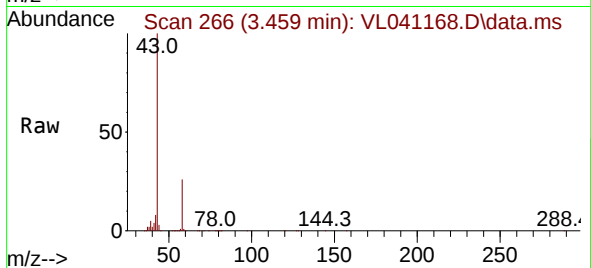
Tgt Ion: 45 Resp: 41121
Ion Ratio Lower Upper
45 100
46 40.8 15.0 59.8





#15
Acetone
Concen: 9.975 ppbv
RT: 3.459 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

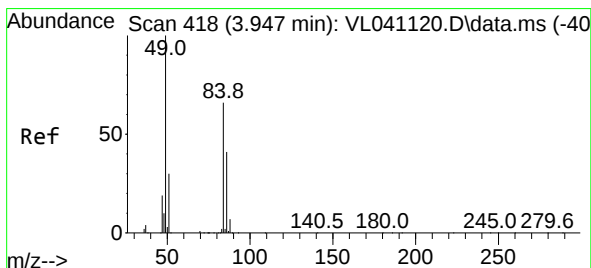
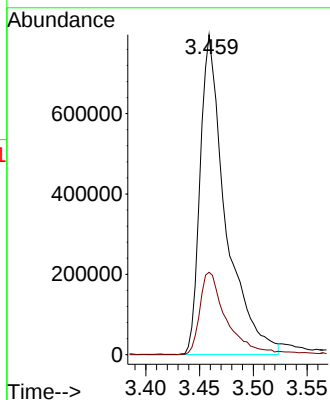
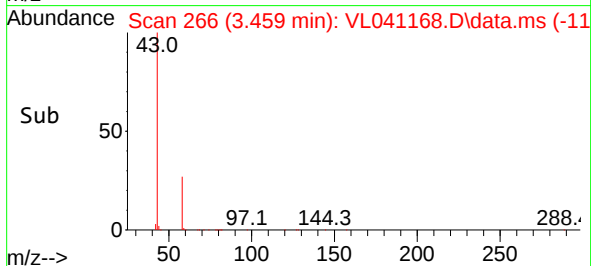
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 130982
Ion Ratio Lower Upper
43 100
58 28.4 21.1 31.7

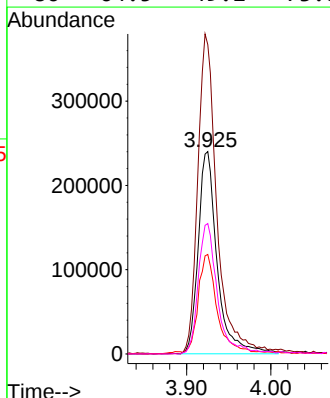
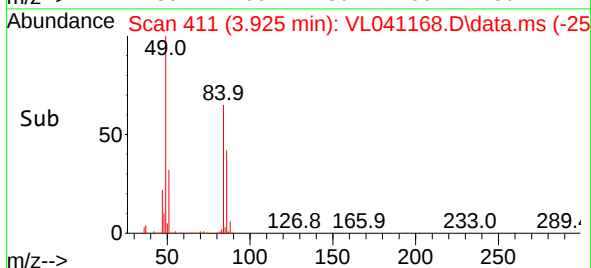
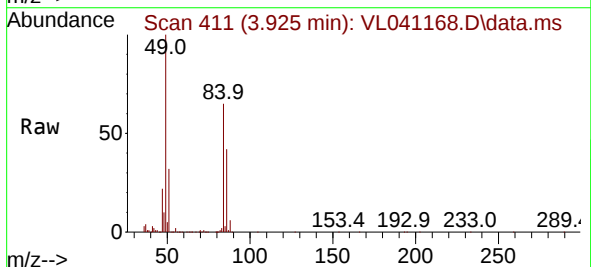
Manual Integrations
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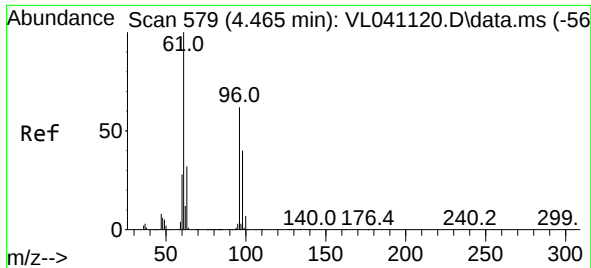
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#20
Methylene Chloride
Concen: 6.968 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

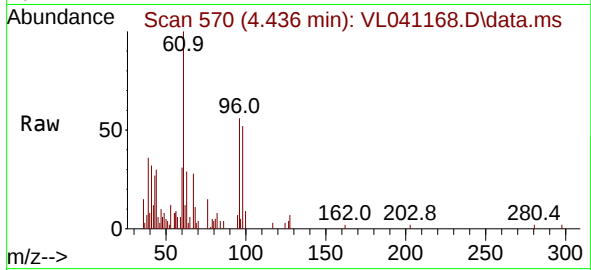
Tgt Ion: 84 Resp: 377353
Ion Ratio Lower Upper
84 100
49 152.8 120.7 181.1
51 48.1 36.6 54.8
86 64.5 49.2 73.8





#22
trans-1,2-Dichloroethene
Concen: 0.162 ppbv m
RT: 4.436 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

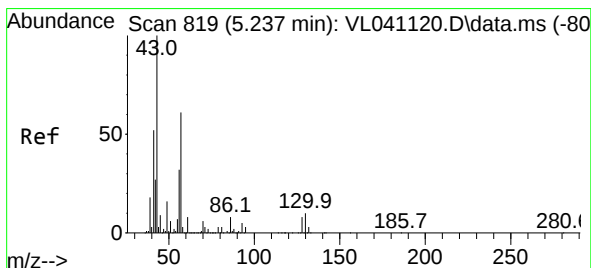
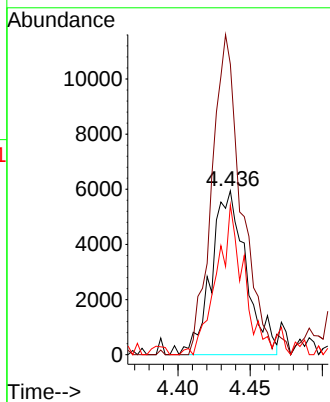
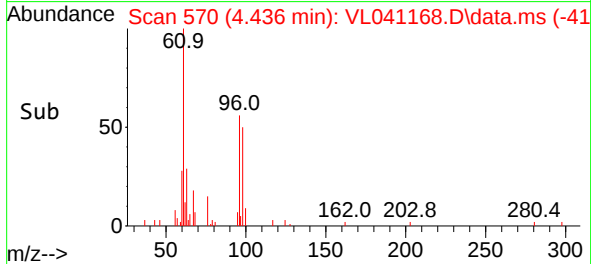
Instrument :
MSVOA_L
ClientSampleId :
SV2



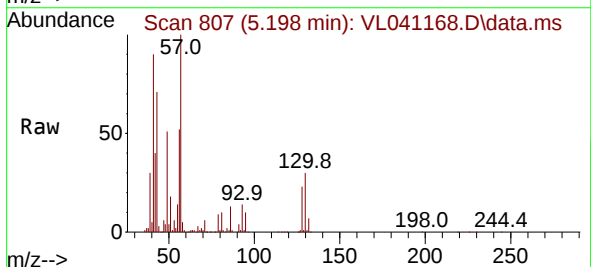
Tgt Ion: 96 Resp: 989
Ion Ratio Lower Upper
96 100
61 177.2 128.4 192.6
98 91.4 51.5 77.3

Manual Integrations
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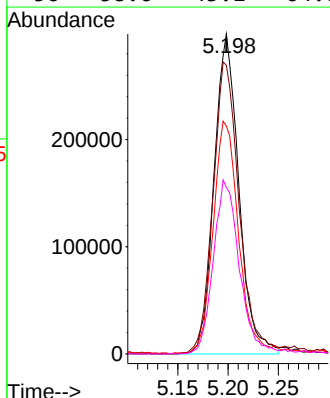
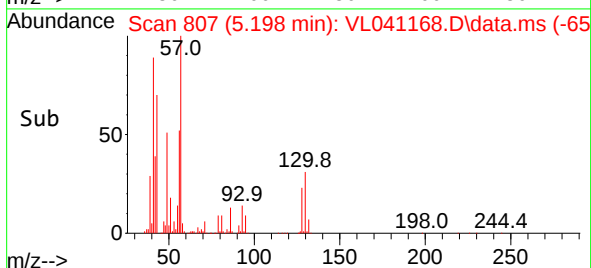
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024

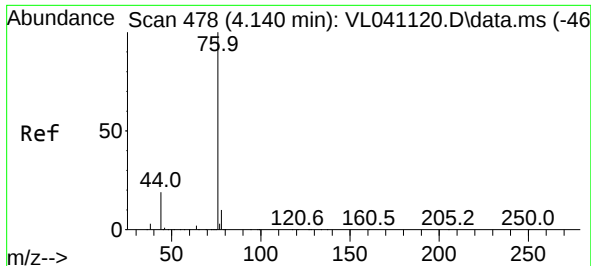


#26
Hexane
Concen: 4.622 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.003 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17



Tgt Ion: 57 Resp: 511391
Ion Ratio Lower Upper
57 100
41 98.6 73.8 110.8
43 76.6 186.2 279.2#
56 58.6 43.1 64.7





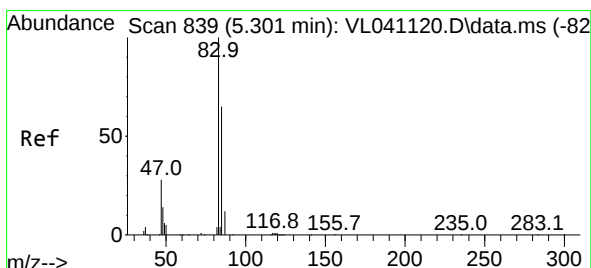
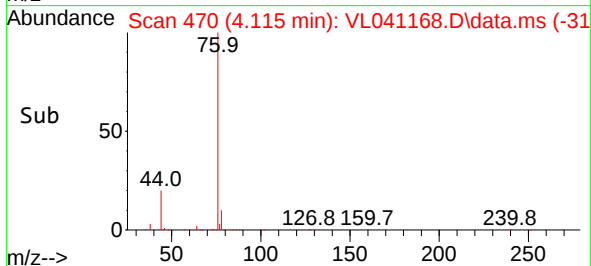
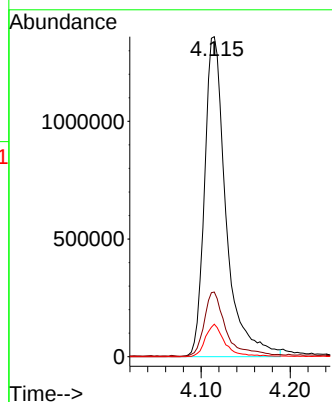
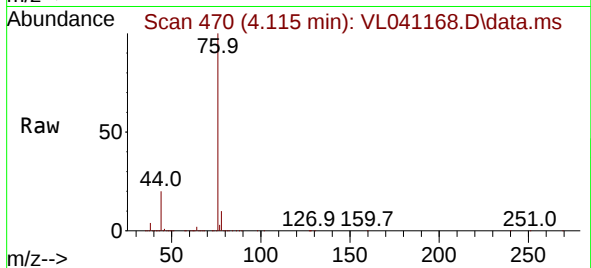
#27
Carbon Disulfide
Concen: 16.798 ppbv
RT: 4.115 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 76 Resp: 227748
Ion Ratio Lower Upper
76 100
44 20.8 16.3 24.5
78 9.6 7.9 11.9

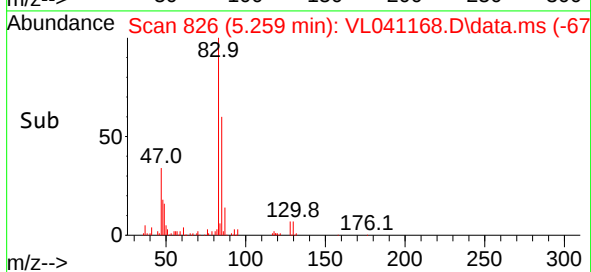
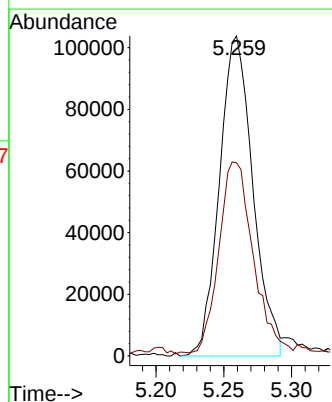
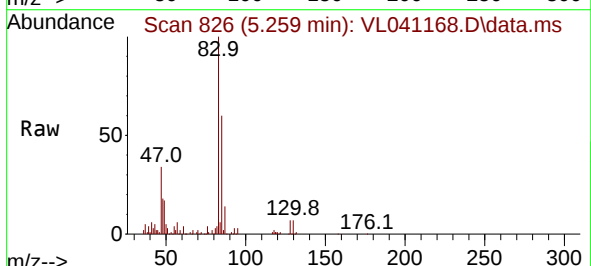
Manual Integrations
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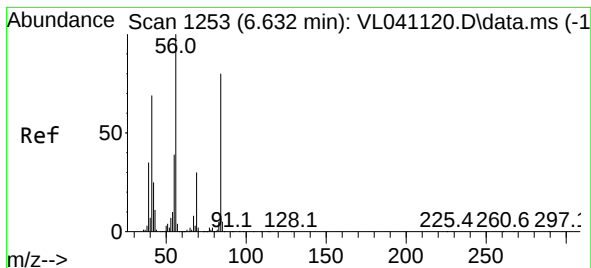
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#29
Chloroform
Concen: 0.956 ppbv
RT: 5.259 min Scan# 826
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Tgt Ion: 83 Resp: 178270
Ion Ratio Lower Upper
83 100
85 59.2 51.5 77.3





#30

Cyclohexane

Concen: 0.222 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. 0.007 min

Lab File: VL041168.D

Acq: 25 Apr 2024 13:17

Instrument :

MSVOA_L

ClientSampleId :

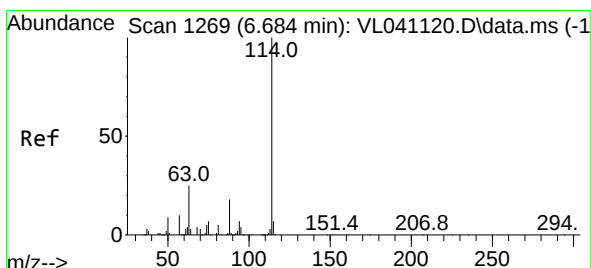
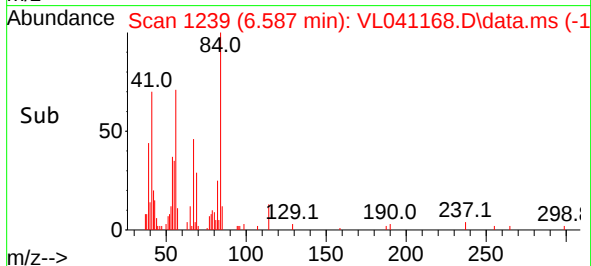
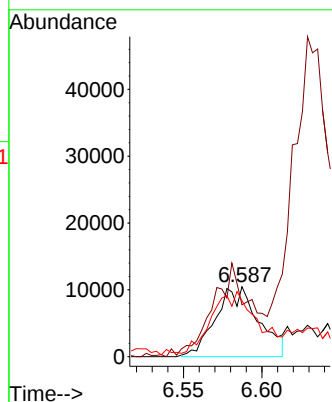
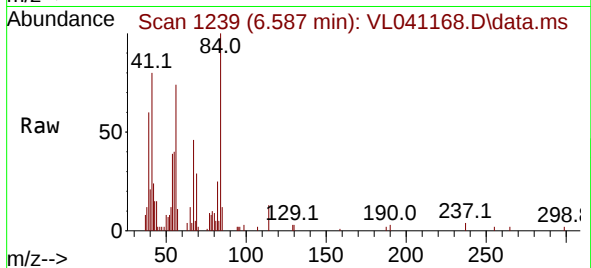
SV2

Tgt Ion:	84	Resp:	2000
Ion	Ratio	Lower	Upper
84	100		
56	0.0	111.9	167.9
41	0.0	71.0	106.6

Manual Integrations

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Supervised By :Mahesh Dadoda 04/26/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

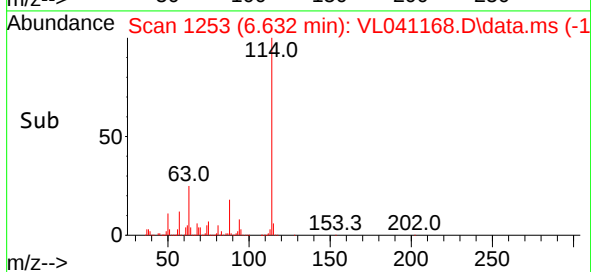
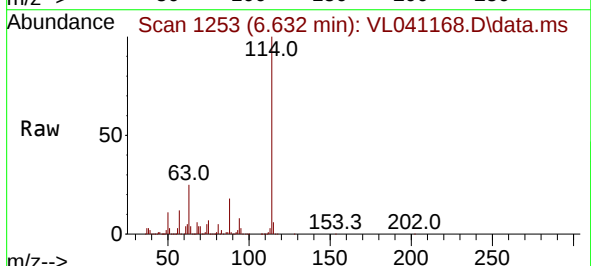
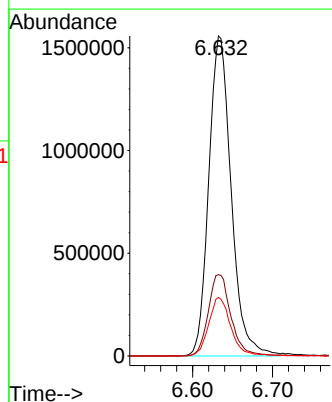
RT: 6.632 min Scan# 1253

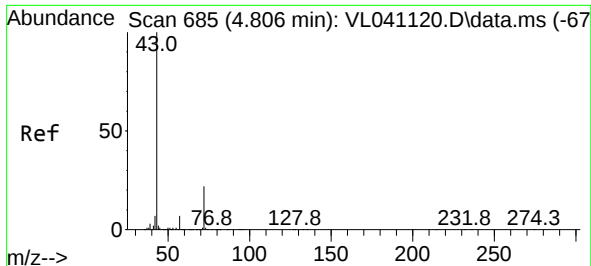
Delta R.T. -0.003 min

Lab File: VL041168.D

Acq: 25 Apr 2024 13:17

Tgt Ion:	114	Resp:	3032951
Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.9	31.3
88	18.2	14.5	21.7





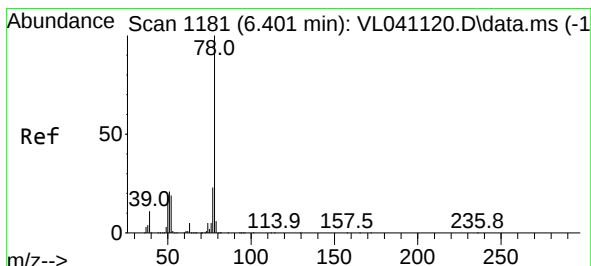
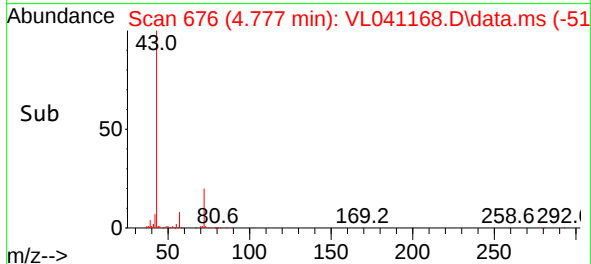
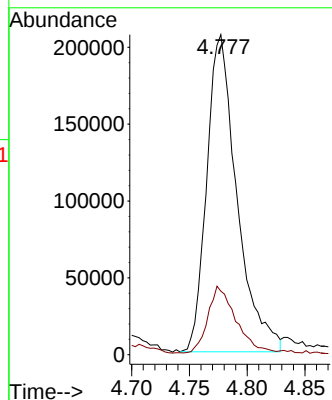
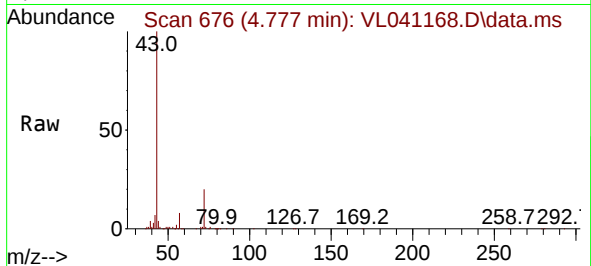
#34
2-Butanone
Concen: 2.930 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 37601
Ion Ratio Lower Upper
43 100
72 22.9 17.6 26.4

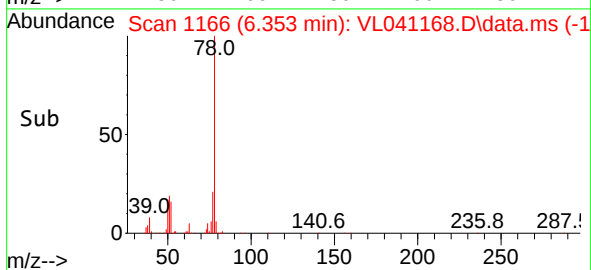
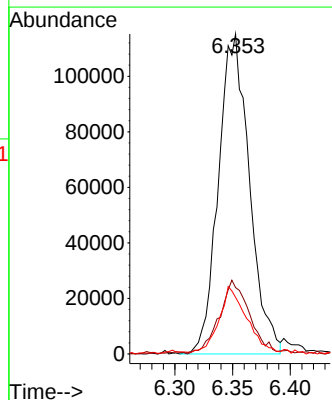
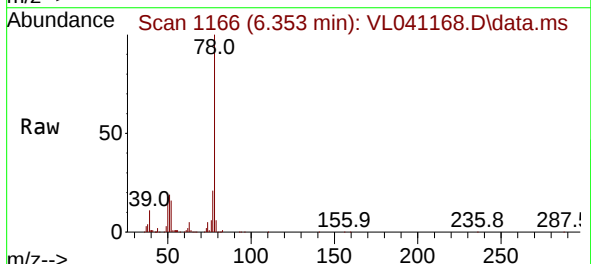
Manual Integrations
APPROVED

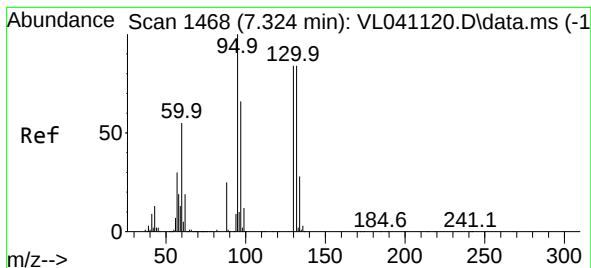
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#36
Benzene
Concen: 0.966 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Tgt Ion: 78 Resp: 215205
Ion Ratio Lower Upper
78 100
77 20.2 18.2 27.4
50 17.0 15.4 23.2





#38

Trichloroethene

Concen: 1.083 ppbv

RT: 7.266 min Scan# 1450

Delta R.T. -0.006 min

Lab File: VL041168.D

Acq: 25 Apr 2024 13:17

Instrument :

MSVOA_L

ClientSampleId :

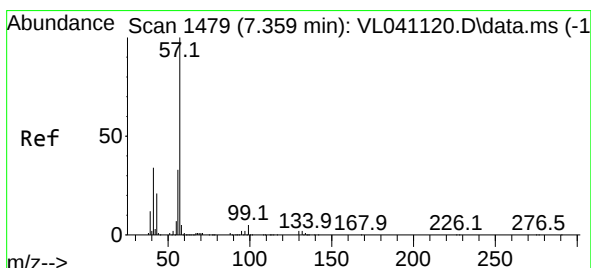
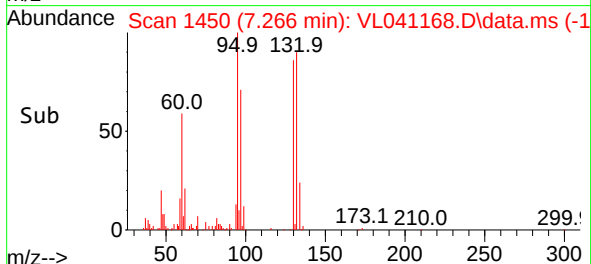
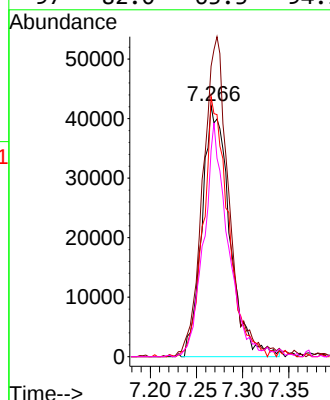
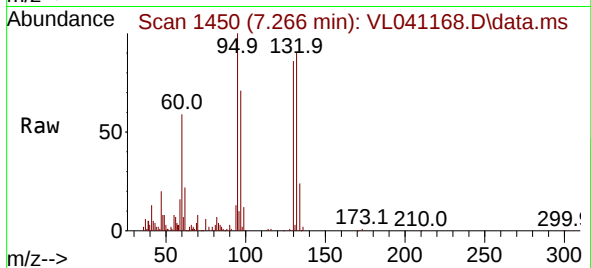
SV2

Tgt Ion:	130	Resp:	8715
Ion	Ratio	Lower	Upper
130	100		
95	115.7	95.4	143.0
132	103.6	80.0	120.0
97	82.0	63.3	94.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#44

2,2,4-Trimethylpentane

Concen: 0.341 ppbv

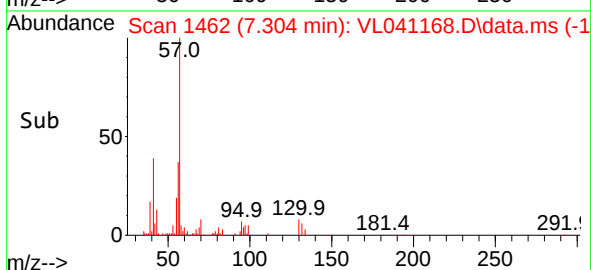
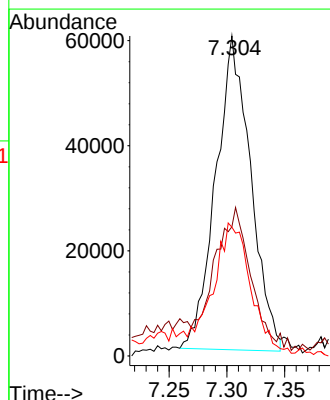
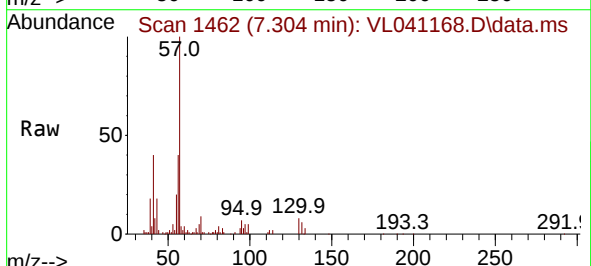
RT: 7.304 min Scan# 1462

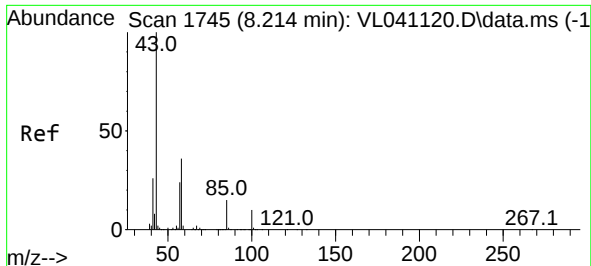
Delta R.T. 0.000 min

Lab File: VL041168.D

Acq: 25 Apr 2024 13:17

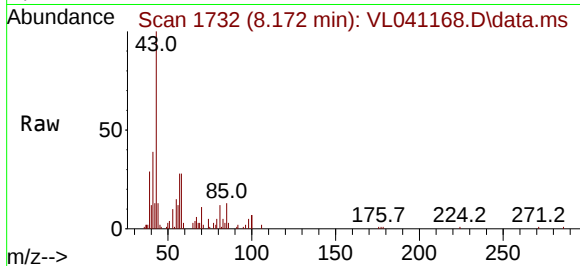
Tgt Ion:	57	Resp:	125579
Ion	Ratio	Lower	Upper
57	100		
41	72.2	28.2	42.2#
56	58.0	25.2	37.8#





#50
4-Methyl-2-Pentanone
Concen: 0.175 ppbv m
RT: 8.172 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

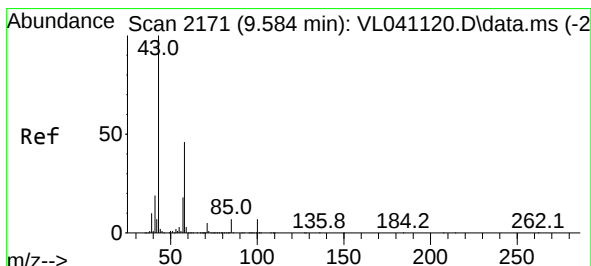
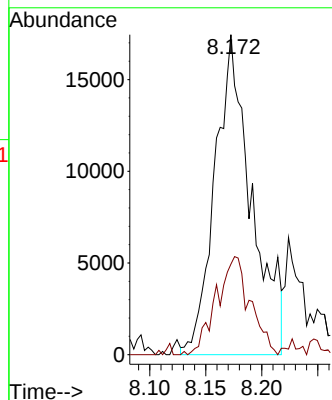
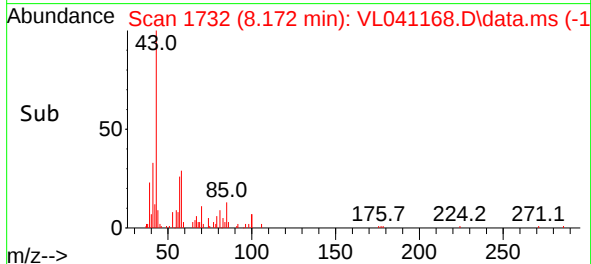
Instrument :
MSVOA_L
ClientSampleId :
SV2



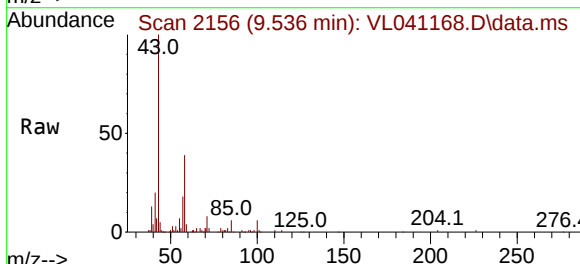
Tgt Ion: 43 Resp: 39510
Ion Ratio Lower Upper
43 100
58 0.0 27.7 41.5

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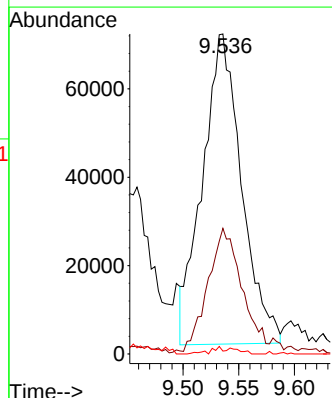
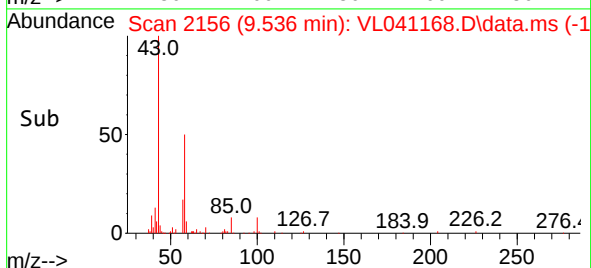
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024

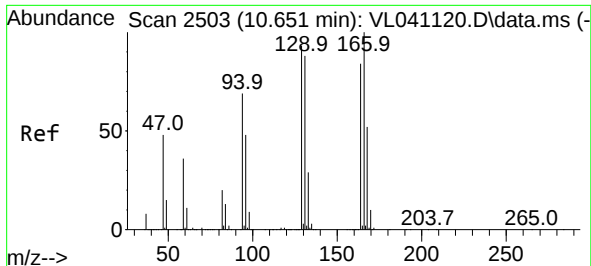


#51
2-Hexanone
Concen: 1.095 ppbv
RT: 9.536 min Scan# 2156
Delta R.T. 0.010 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17



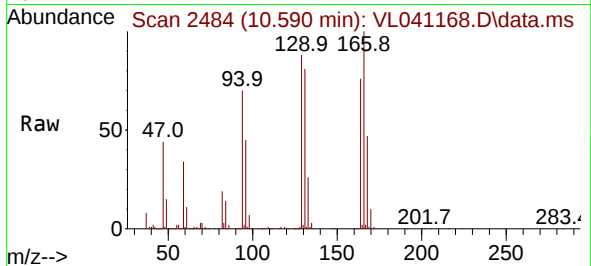
Tgt Ion: 43 Resp: 171459
Ion Ratio Lower Upper
43 100
58 38.9 37.3 55.9
98 1.4 0.3 0.5





#52
Tetrachloroethene
Concen: 7.882 ppbv m
RT: 10.590 min Scan# 2484
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

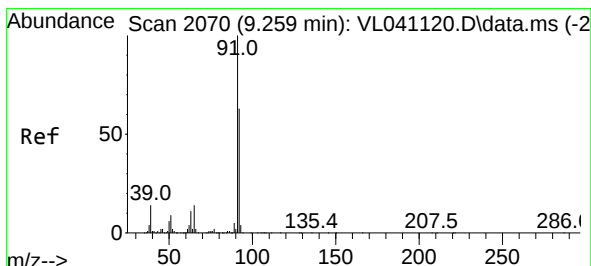
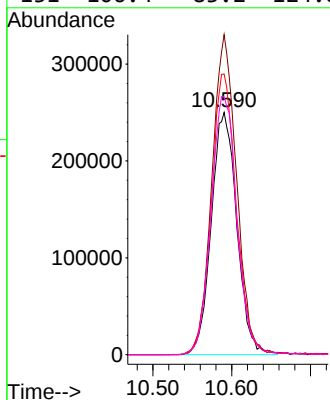
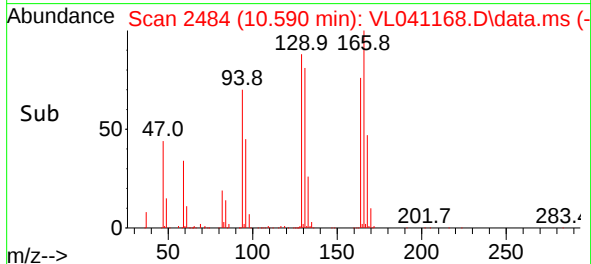
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 560110
Ion Ratio Lower Upper
164 100
166 132.1 95.0 142.6
129 115.8 88.7 133.1
131 106.4 83.2 124.8

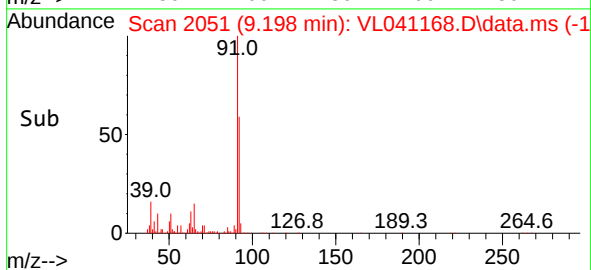
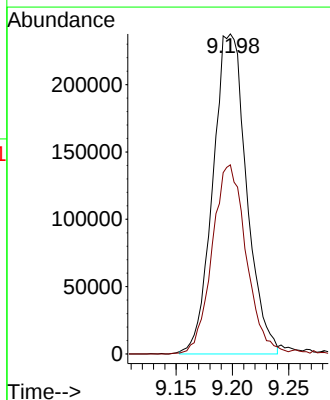
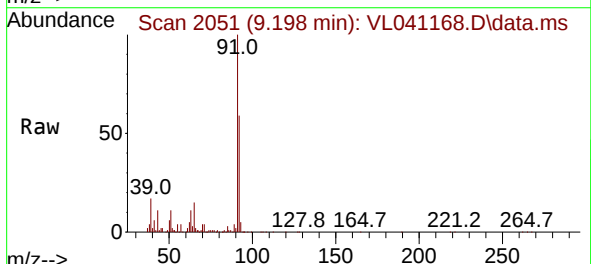
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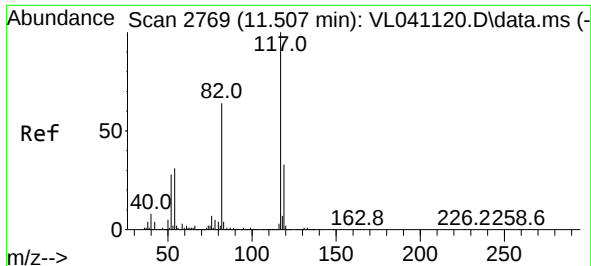
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#53
Toluene
Concen: 2.107 ppbv m
RT: 9.198 min Scan# 2051
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

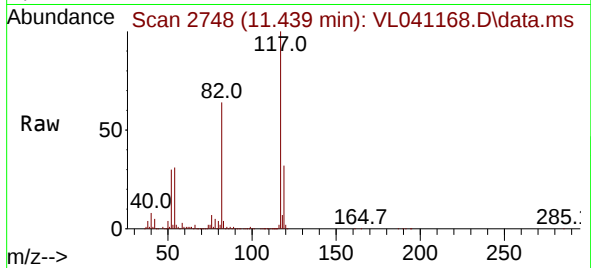
Tgt Ion: 91 Resp: 494174
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

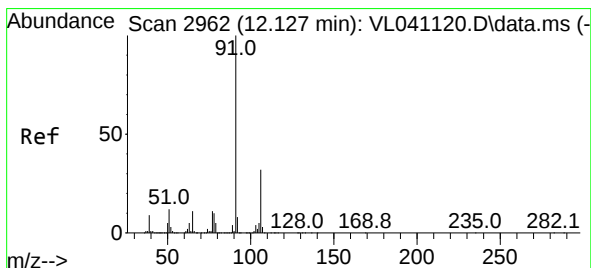
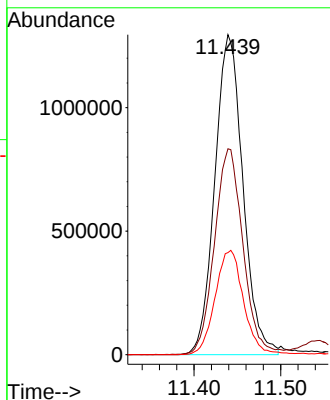
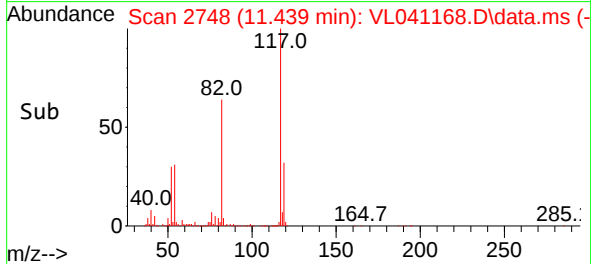
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 117 Resp: 2918328
Ion Ratio Lower Upper
117 100
82 65.6 51.0 76.6
119 33.5 25.2 37.8

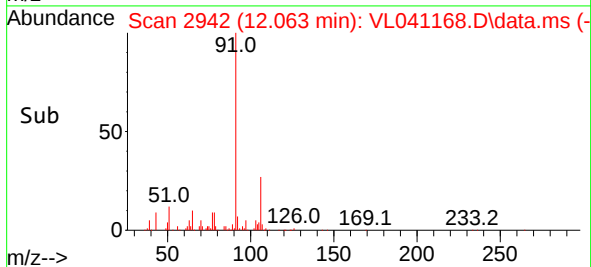
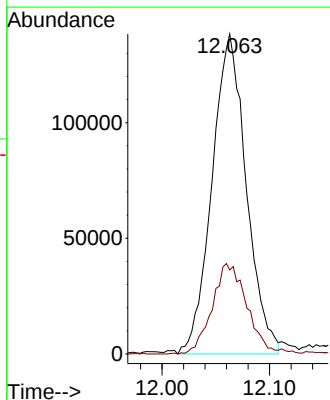
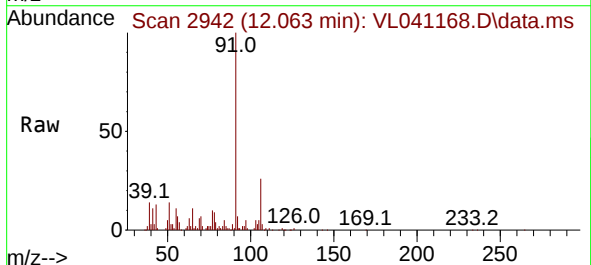
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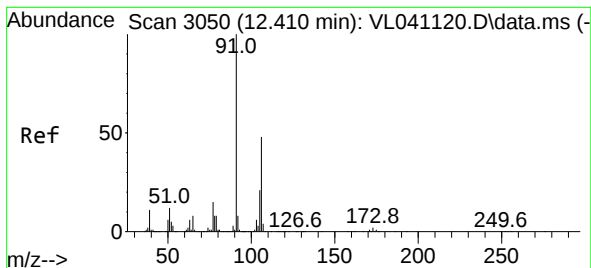
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#58
Ethyl Benzene
Concen: 0.959 ppbv
RT: 12.063 min Scan# 2942
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Tgt Ion: 91 Resp: 306280
Ion Ratio Lower Upper
91 100
106 26.3 25.6 38.4





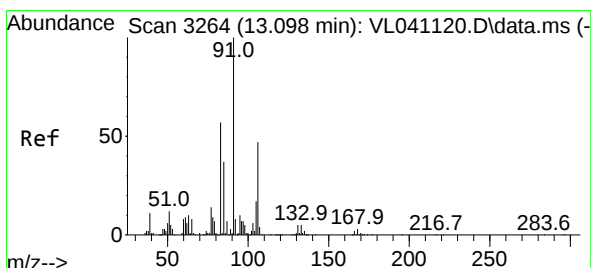
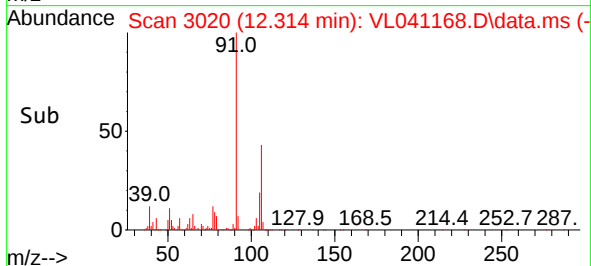
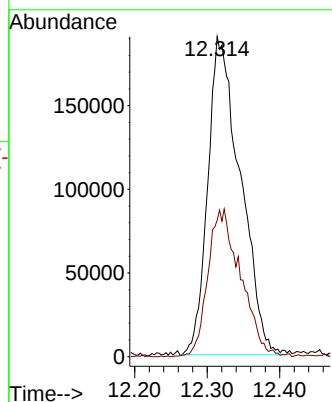
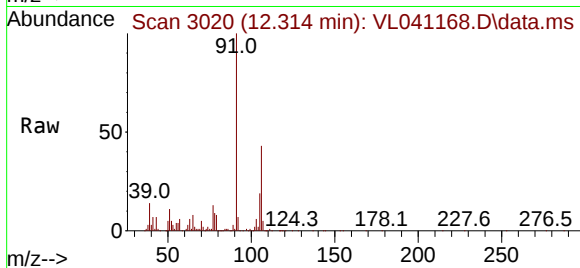
#59
m/p-Xylene
Concen: 2.052 ppbv
RT: 12.314 min Scan# 3050
Delta R.T. -0.035 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 592162
Ion Ratio Lower Upper
91 100
106 47.0 35.4 53.2

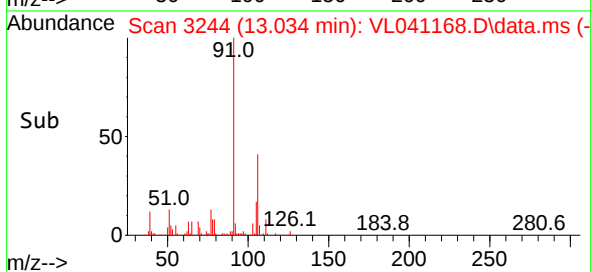
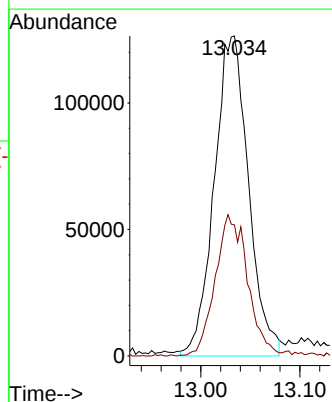
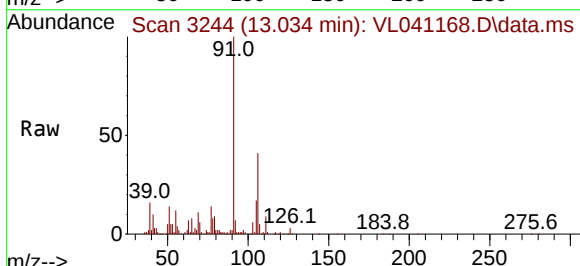
Manual Integrations
APPROVED

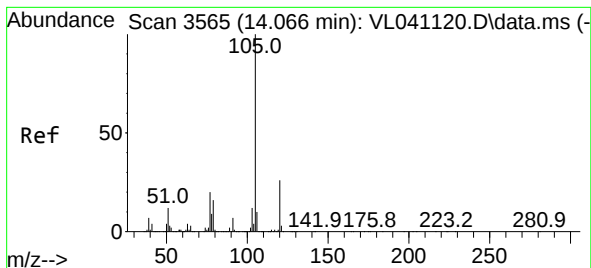
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#60
o-Xylene
Concen: 1.111 ppbv m
RT: 13.034 min Scan# 3244
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

Tgt Ion: 91 Resp: 303789
Ion Ratio Lower Upper
91 100
106 0.0 22.9 68.5#





#62

Isopropylbenzene

Concen: 0.130 ppbv m

RT: 14.002 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL041168.D

Acq: 25 Apr 2024 13:17

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 52764

Ion Ratio Lower Upper

105 100

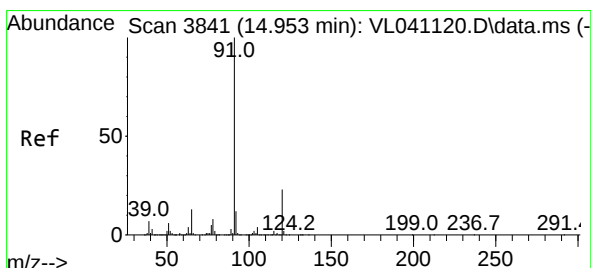
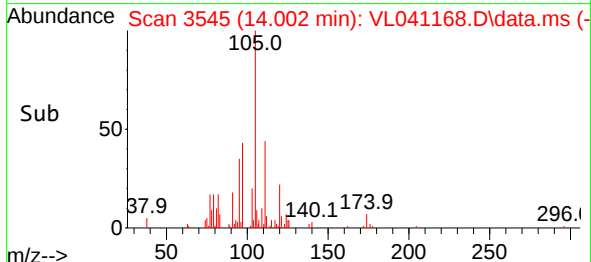
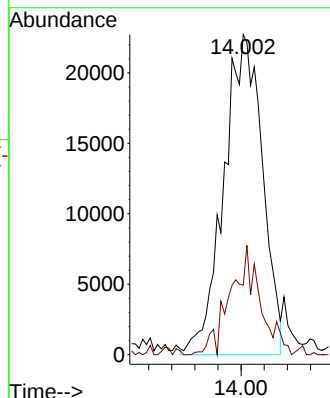
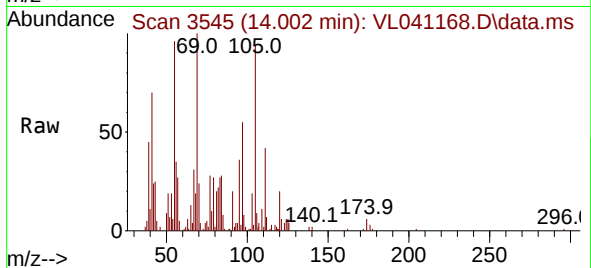
120 26.8 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024

Supervised By :Mahesh Dadoda 04/26/2024



#64

n-propylbenzene

Concen: 0.275 ppbv m

RT: 14.886 min Scan# 3820

Delta R.T. 0.000 min

Lab File: VL041168.D

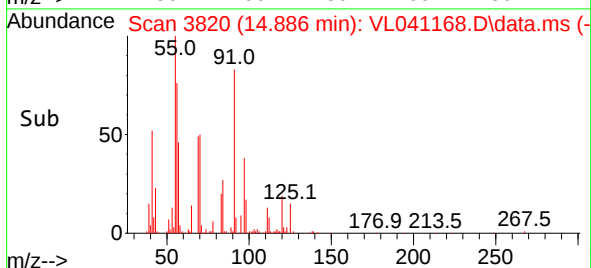
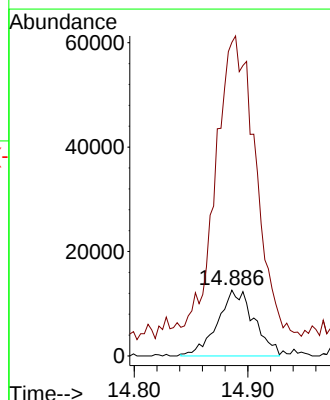
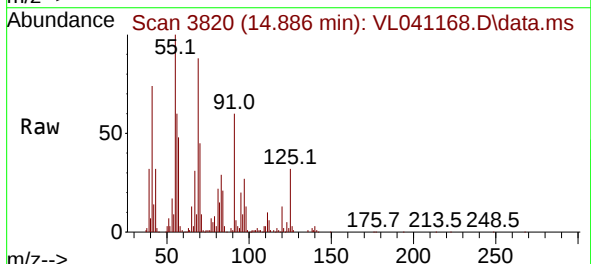
Acq: 25 Apr 2024 13:17

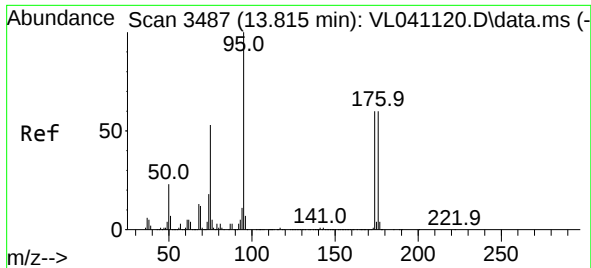
Tgt Ion:120 Resp: 28116

Ion Ratio Lower Upper

120 100

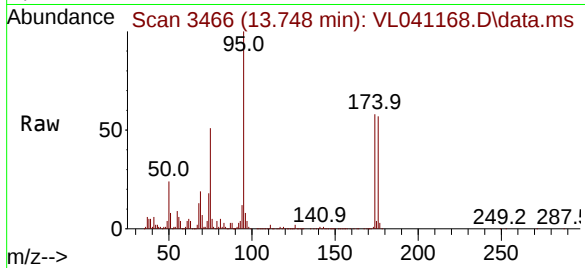
91 580.1 395.0 592.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.580 ppbv
RT: 13.748 min Scan# 3487
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

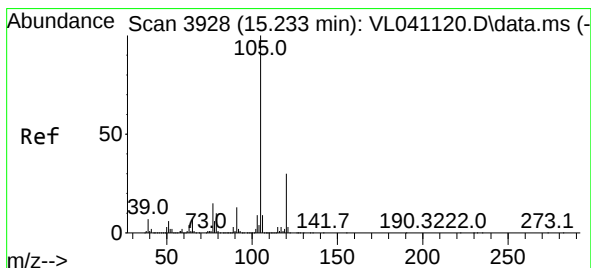
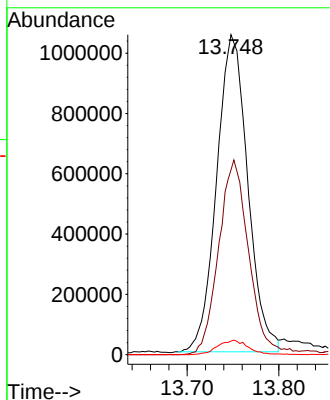
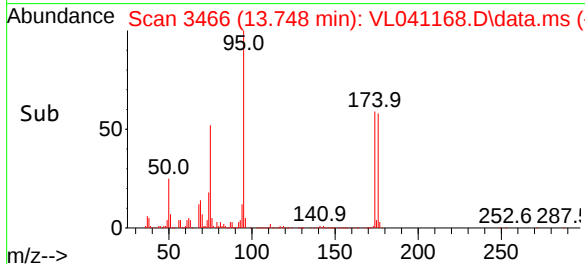
Instrument :
MSVOA_L
ClientSampleId :
SV2



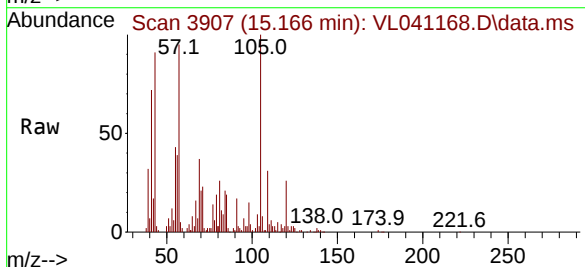
Tgt Ion: 95 Resp: 248287
Ion Ratio Lower Upper
95 100
174 61.2 49.3 73.9
175 4.5 3.6 5.4

Manual Integrations
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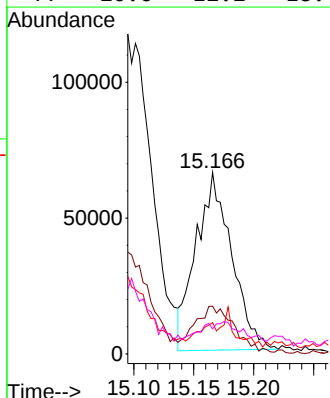
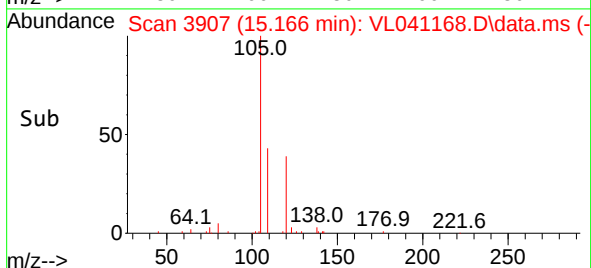
Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024

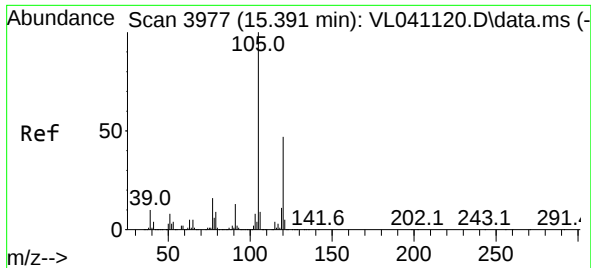


#72
4-Ethyltoluene
Concen: 0.442 ppbv
RT: 15.166 min Scan# 3907
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17



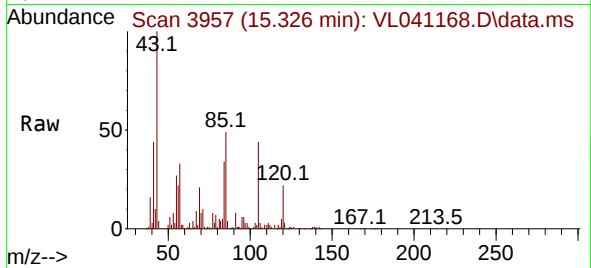
Tgt Ion:105 Resp: 135104
Ion Ratio Lower Upper
105 100
120 31.0 24.2 36.2
91 21.2 11.2 16.8#
77 20.6 12.2 18.4#





#73
1,3,5-Trimethylbenzene
Concen: 0.454 ppbv m
RT: 15.326 min Scan# 3977
Delta R.T. 0.000 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17

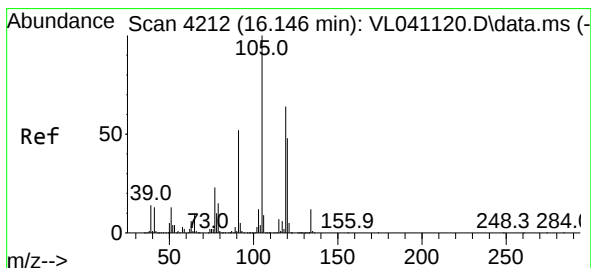
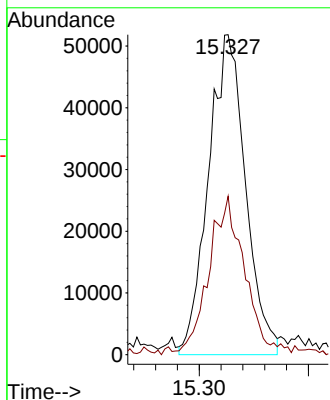
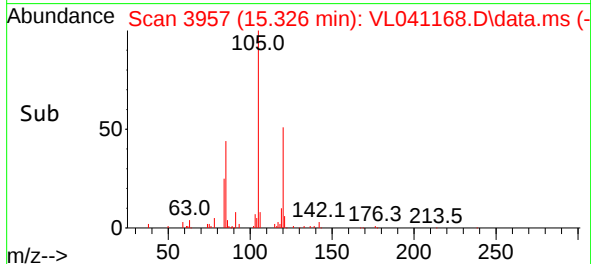
Instrument :
MSVOA_L
ClientSampleId :
SV2



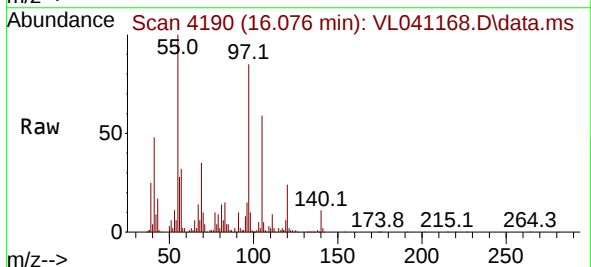
Tgt Ion:105 Resp: 12232
Ion Ratio Lower Upper
105 100
120 49.5 37.8 56.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/26/2024
Supervised By :Mahesh Dadoda 04/26/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.709 ppbv
RT: 16.076 min Scan# 4190
Delta R.T. -0.006 min
Lab File: VL041168.D
Acq: 25 Apr 2024 13:17



Tgt Ion:105 Resp: 218411
Ion Ratio Lower Upper
105 100
120 40.7 38.9 58.3
91 12.2 43.0 64.6#
77 10.5 18.6 28.0#

