

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041931.D
 Acq On : 20 Jan 2025 21:59
 Operator : SY/MD
 Sample : Q1090-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 07:40:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	143675	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.943	114	408890	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.865	117	375860	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	295570	9.984	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	5385	0.275	ppbv	98
3) Chlorodifluoromethane	1.470	51	5618m	0.274	ppbv	
4) Chloromethane	1.525	50	3008	0.409	ppbv #	78
9) Propene	1.476	41	18632	2.206	ppbv	97
10) Heptane	4.962	43	18075	0.801	ppbv	96
11) Trichlorofluoromethane	1.868	101	2515	0.124	ppbv	84
13) Ethanol	1.716	45	7218	11.668	ppbv #	31
15) Acetone	1.829	43	182676	10.586	ppbv #	87
17) tert-Butyl alcohol	2.039	59	5822	0.274	ppbv #	69
19) Isopropyl Alcohol	1.881	45	4949	0.484	ppbv #	1
20) Methylene Chloride	2.052	84	1351	0.198	ppbv #	93
26) Hexane	2.816	57	114679	6.231	ppbv #	35
27) Carbon Disulfide	2.143	76	2780	0.153	ppbv #	50
29) Chloroform	2.839	83	6003	0.206	ppbv	93
30) Cyclohexane	3.842	84	2926m	0.183	ppbv	
34) 2-Butanone	2.551	43	136872	5.264	ppbv	98
35) Carbon Tetrachloride	3.745	117	1881	0.073	ppbv #	62
36) Benzene	3.638	78	11789	0.314	ppbv #	94
52) Tetrachloroethene	8.205	164	3788m	0.291	ppbv	
53) Toluene	6.911	91	38661	0.946	ppbv	96
59) m/p-Xylene	9.542	91	12601m	0.268	ppbv	
60) o-Xylene	9.950	91	12559	0.269	ppbv	100

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

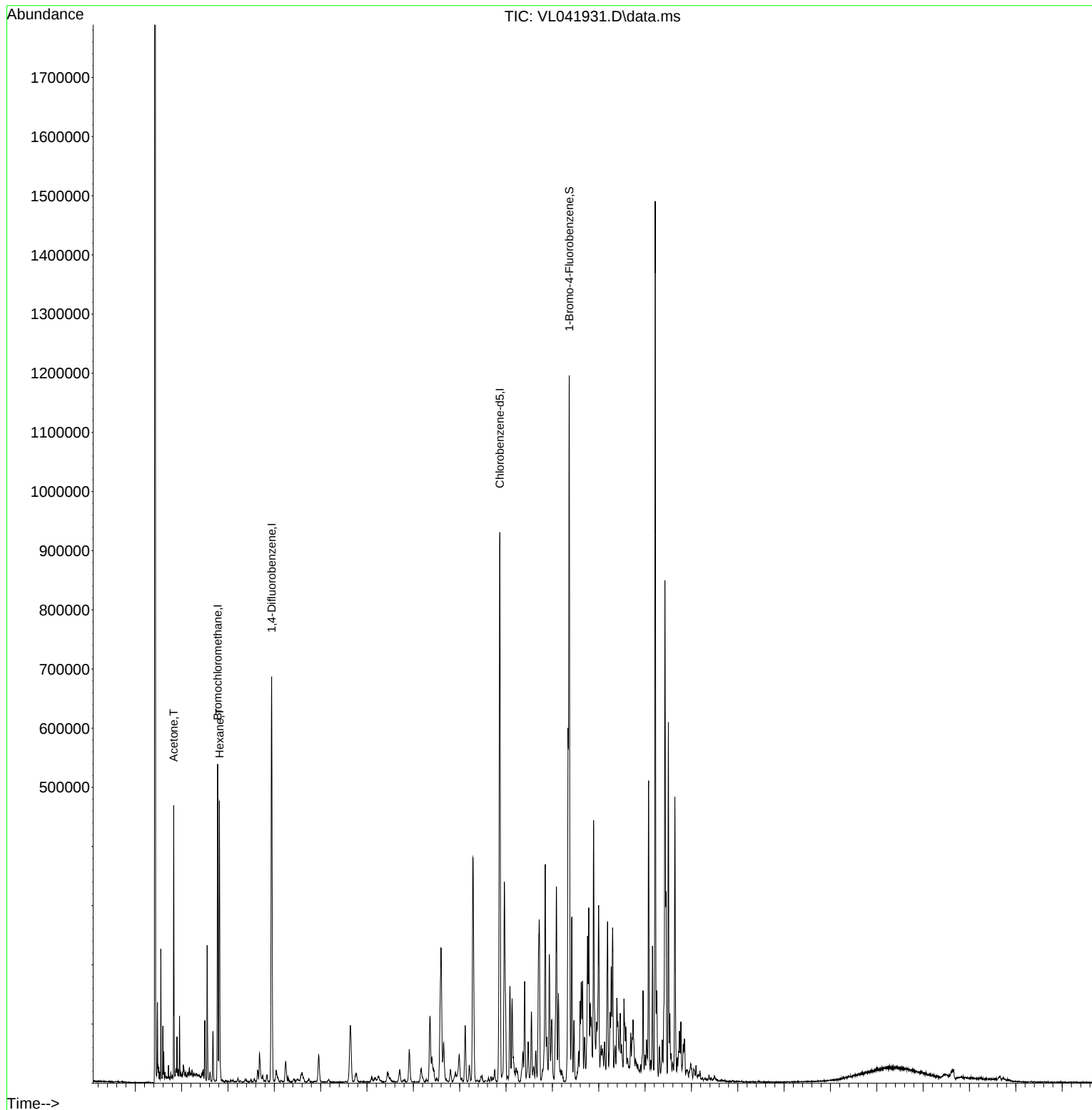
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
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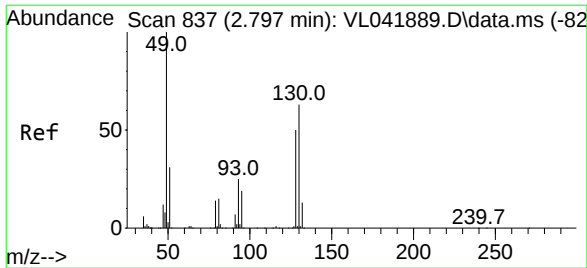
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Jan 21 07:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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Supervised By : Mahesh Dadoda 01/21/2025





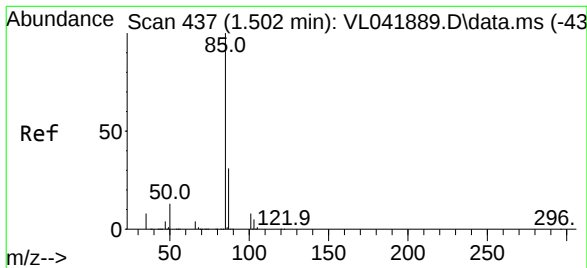
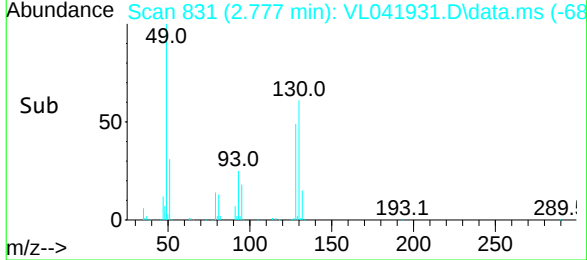
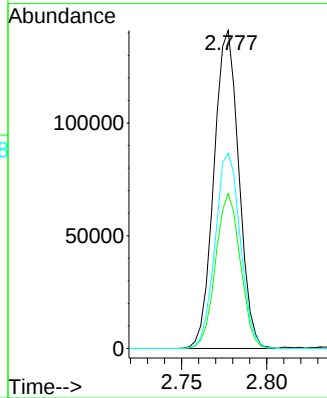
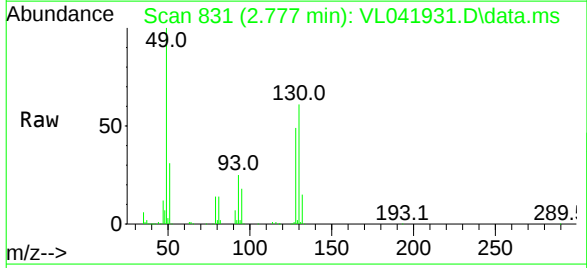
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. -0.020 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 143675
Ion Ratio Lower Upper
49 100
128 48.3 24.3 73.0
130 62.2 31.1 93.2

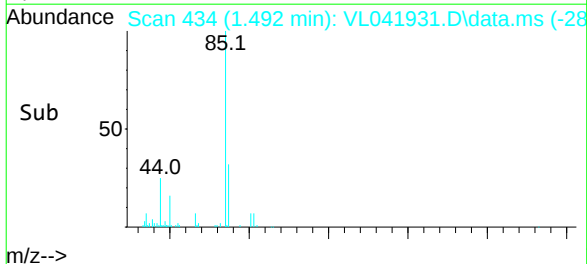
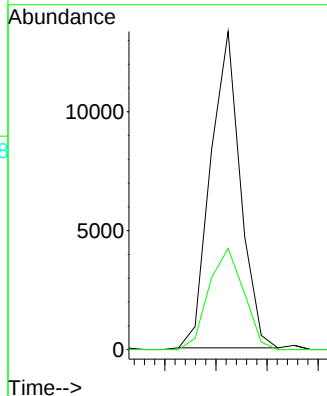
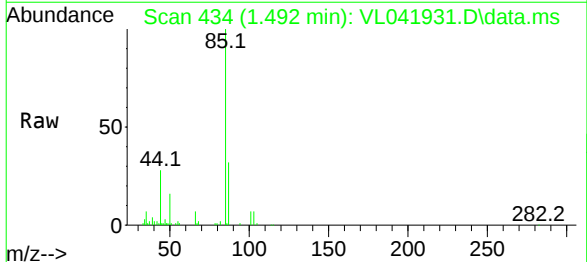
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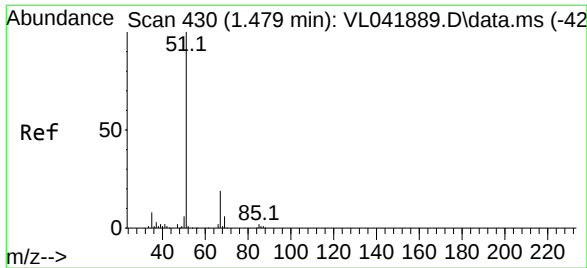
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 85 Resp: 5385
Ion Ratio Lower Upper
85 100
87 32.0 24.9 37.3





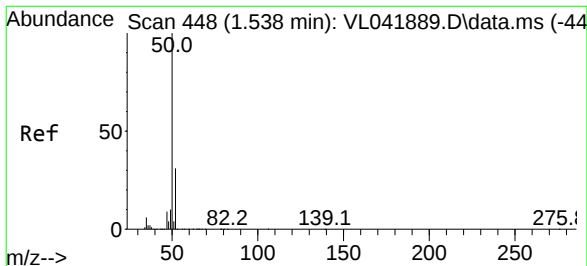
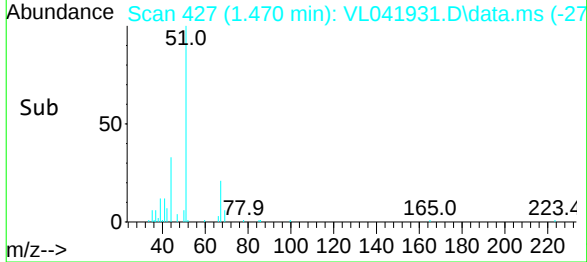
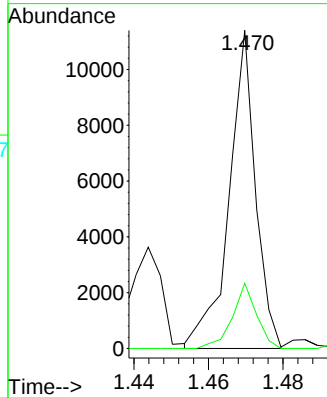
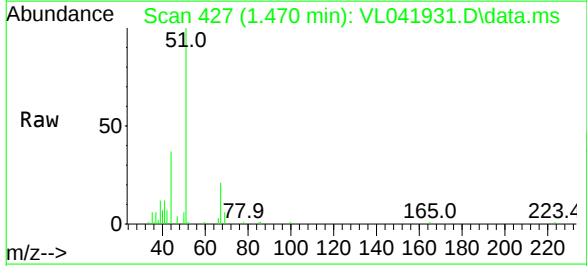
#3
Chlorodifluoromethane
Concen: 0.274 ppbv m
RT: 1.470 min Scan# 42
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 51 Resp: 5618
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.4

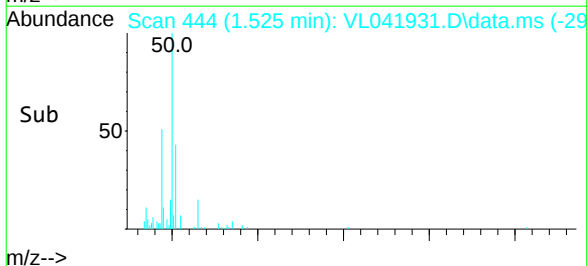
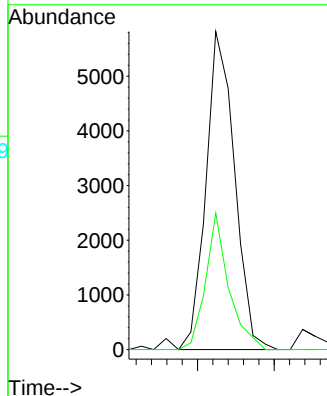
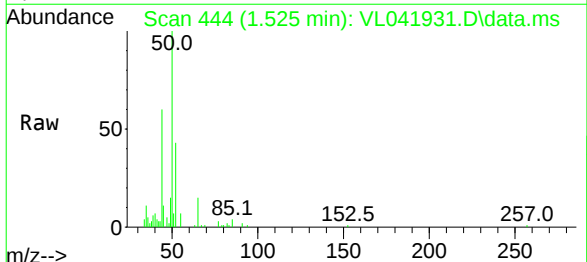
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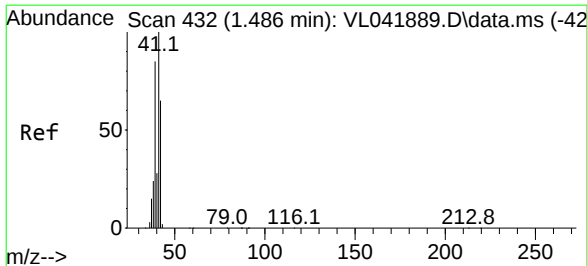
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#4
Chloromethane
Concen: 0.409 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.013 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

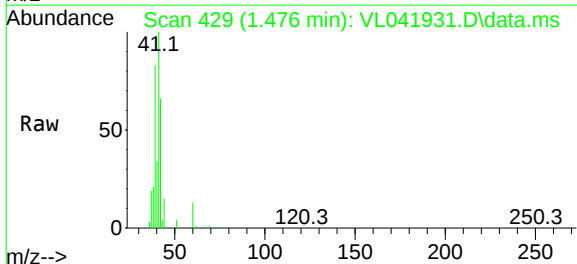
Tgt Ion: 50 Resp: 3008
Ion Ratio Lower Upper
50 100
52 42.9 24.6 36.8#





#9
 Propene
 Concen: 2.206 ppbv
 RT: 1.476 min Scan# 42
 Delta R.T. -0.010 min
 Lab File: VL041931.D
 Acq: 20 Jan 2025 21:59

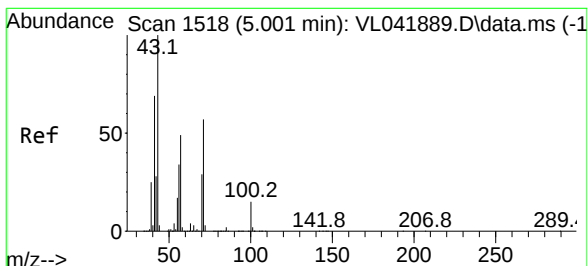
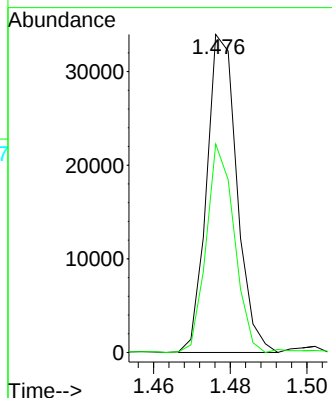
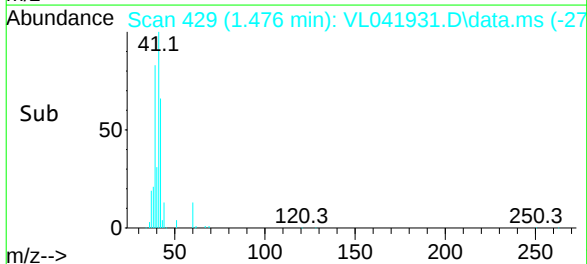
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 41 Resp: 18632
 Ion Ratio Lower Upper
 41 100
 42 62.6 52.0 78.0

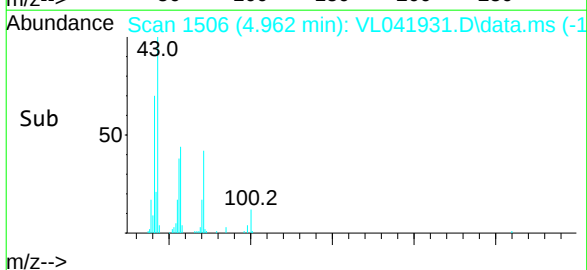
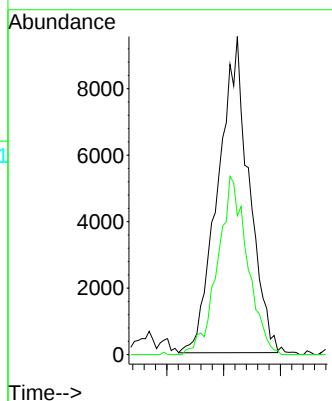
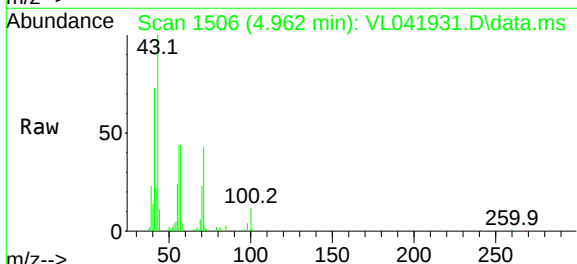
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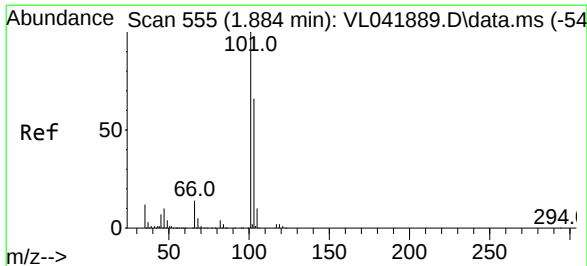
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#10
 Heptane
 Concen: 0.801 ppbv
 RT: 4.962 min Scan# 1506
 Delta R.T. -0.039 min
 Lab File: VL041931.D
 Acq: 20 Jan 2025 21:59

Tgt Ion: 43 Resp: 18075
 Ion Ratio Lower Upper
 43 100
 57 54.1 41.0 61.4





#11

Trichlorofluoromethane

Concen: 0.124 ppbv

RT: 1.868 min Scan# 555

Delta R.T. -0.016 min

Lab File: VL041931.D

Acq: 20 Jan 2025 21:59

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:101 Resp: 2515

Ion Ratio Lower Upper

101 100

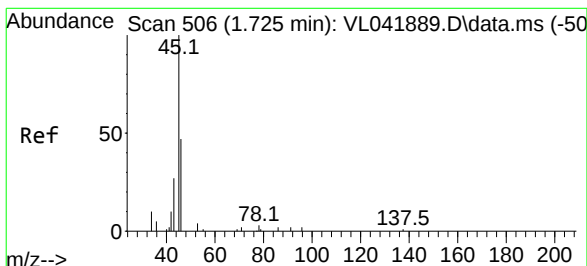
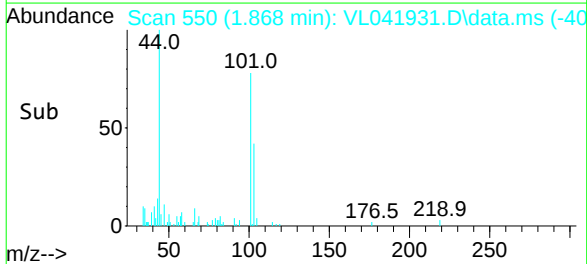
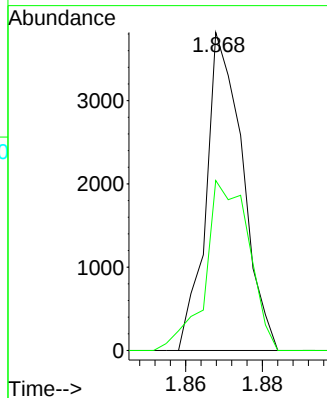
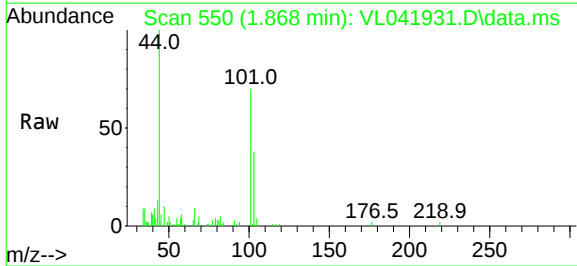
103 53.4 53.1 79.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025

Supervised By :Mahesh Dadoda 01/21/2025



#13

Ethanol

Concen: 11.668 ppbv

RT: 1.716 min Scan# 503

Delta R.T. -0.010 min

Lab File: VL041931.D

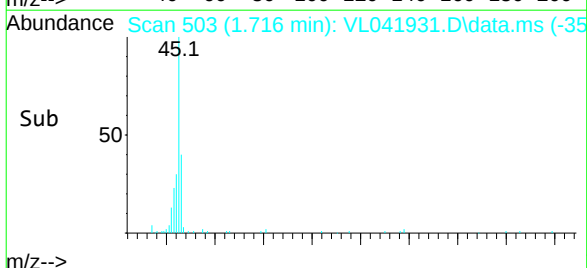
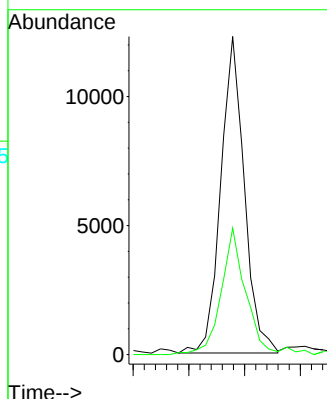
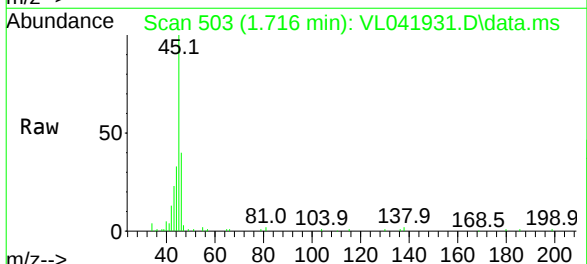
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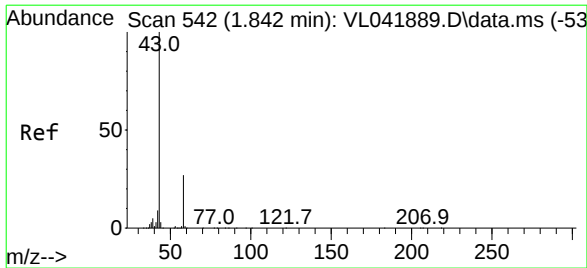
Tgt Ion: 45 Resp: 7218

Ion Ratio Lower Upper

45 100

46 0.0 18.1 72.5#





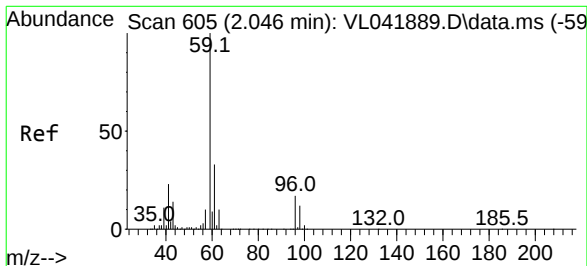
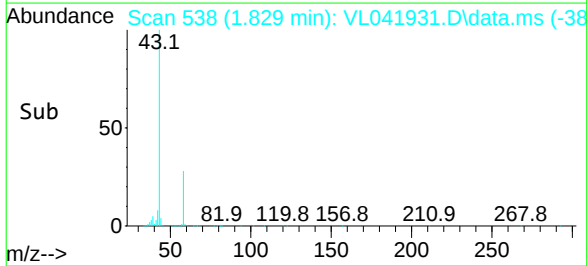
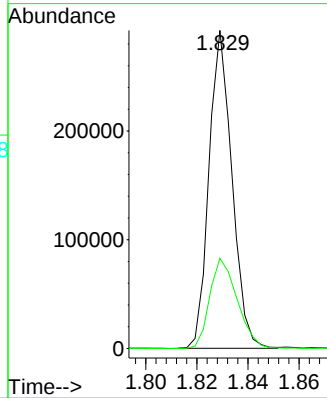
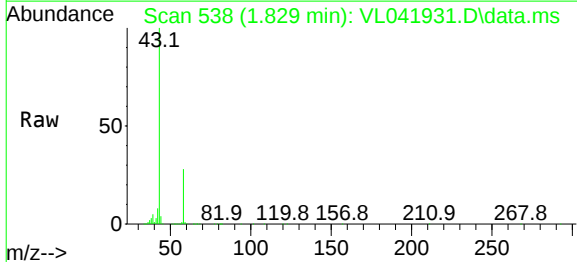
#15
Acetone
Concen: 10.586 ppbv
RT: 1.829 min Scan# 531
Delta R.T. -0.013 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 43 Resp: 182676
Ion Ratio Lower Upper
43 100
58 34.2 21.9 32.9#

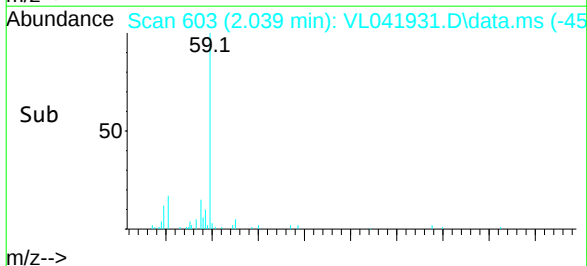
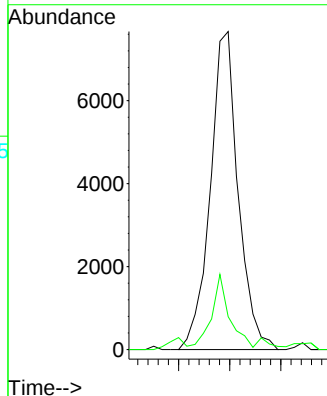
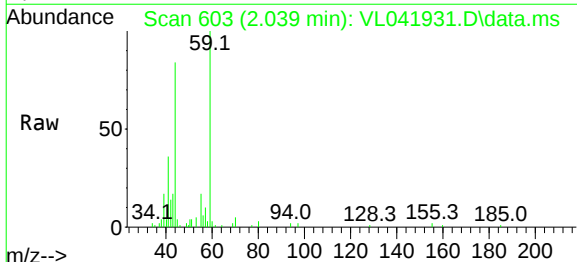
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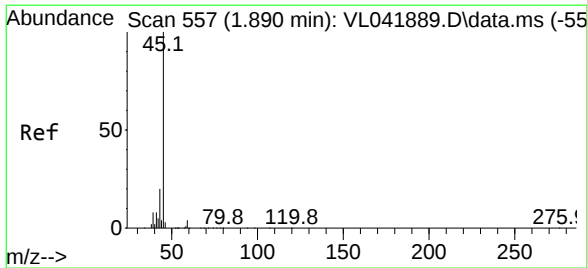
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#17
tert-Butyl alcohol
Concen: 0.274 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.006 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

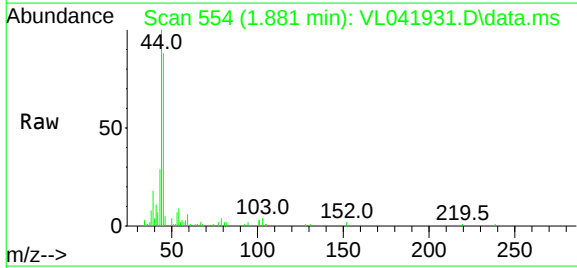
Tgt Ion: 59 Resp: 5822
Ion Ratio Lower Upper
59 100
57 21.4 7.8 11.8#





#19
Isopropyl Alcohol
Concen: 0.484 ppbv
RT: 1.881 min Scan# 557
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

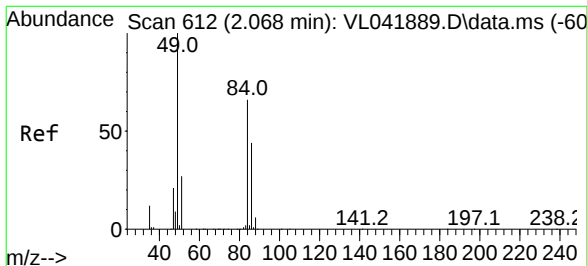
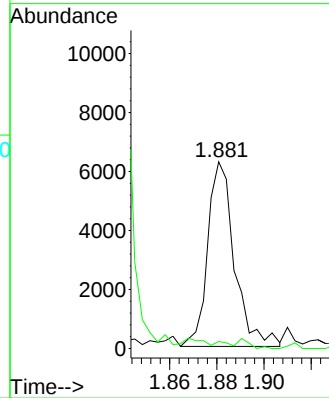
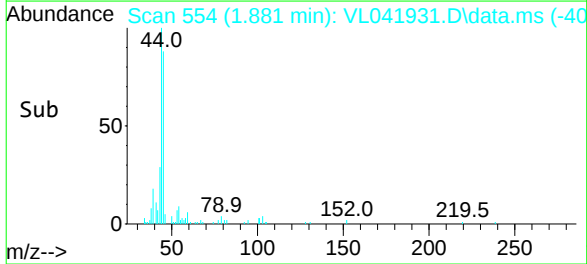
Instrument :
MSVOA_L
ClientSampleId :
SV2



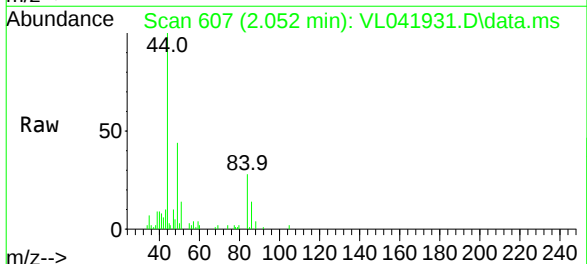
Tgt Ion: 45 Resp: 4949
Ion Ratio Lower Upper
45 100
58 1254.5 35.0 52.6

Manual Integrations
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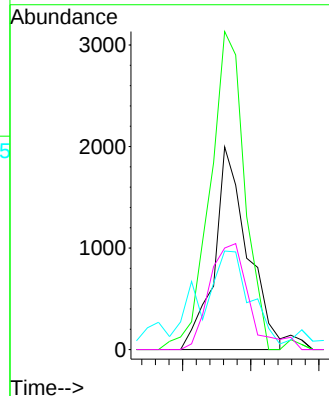
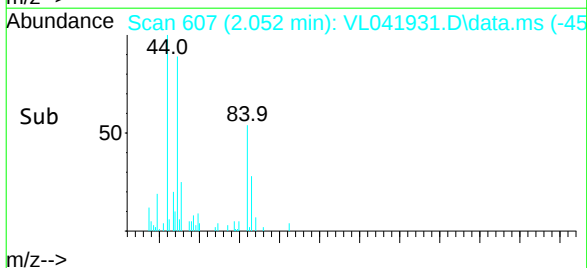
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

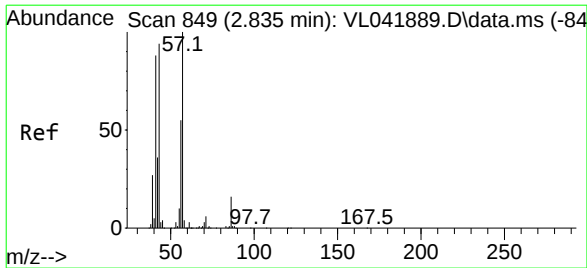


#20
Methylene Chloride
Concen: 0.198 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.016 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59



Tgt Ion: 84 Resp: 1351
Ion Ratio Lower Upper
84 100
49 156.9 123.1 184.7
51 45.9 35.8 53.8
86 50.1 53.7 80.5#





#26

Hexane

Concen: 6.231 ppbv

RT: 2.816 min Scan# 84

Delta R.T. -0.019 min

Lab File: VL041931.D

Acq: 20 Jan 2025 21:59

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 57 Resp: 114679

Ion Ratio Lower Upper

57 100

41 92.6 73.8 110.8

43 68.8 197.3 295.9#

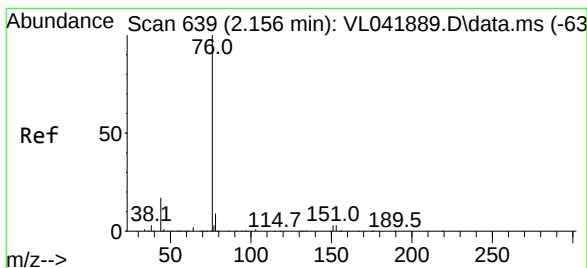
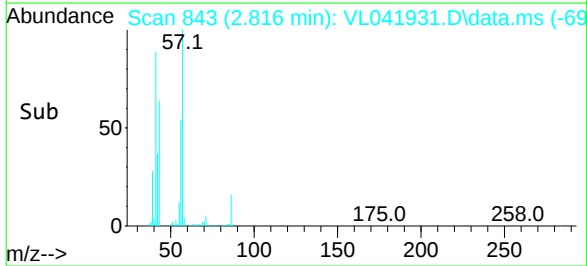
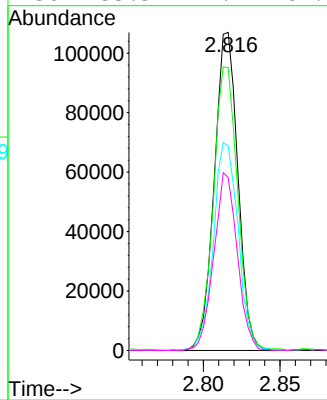
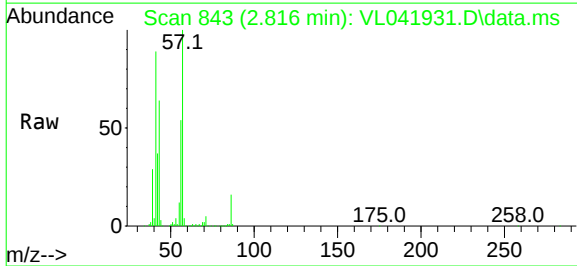
56 55.5 42.7 64.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025

Supervised By :Mahesh Dadoda 01/21/2025



#27

Carbon Disulfide

Concen: 0.153 ppbv

RT: 2.143 min Scan# 635

Delta R.T. -0.013 min

Lab File: VL041931.D

Acq: 20 Jan 2025 21:59

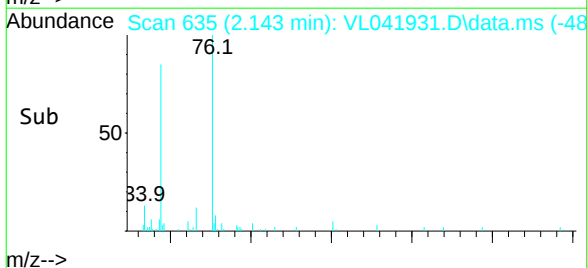
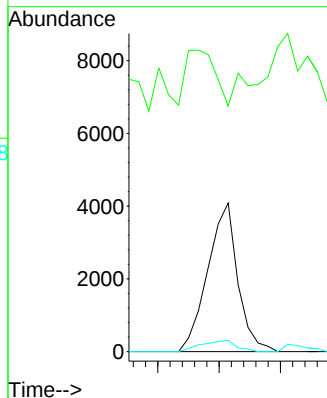
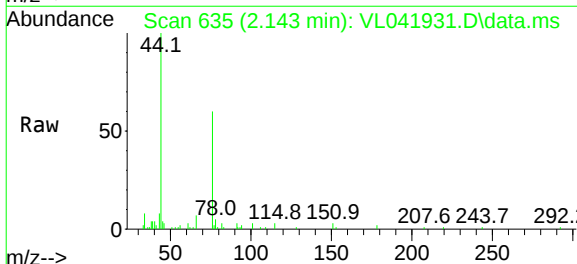
Tgt Ion: 76 Resp: 2780

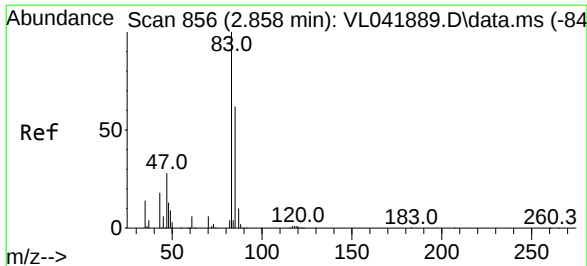
Ion Ratio Lower Upper

76 100

44 53.2 15.4 23.0#

78 8.8 9.3 13.9#





#29

Chloroform

Concen: 0.206 ppbv

RT: 2.839 min Scan# 85

Delta R.T. -0.019 min

Lab File: VL041931.D

Acq: 20 Jan 2025 21:59

Instrument :

MSVOA_L

ClientSampleId :

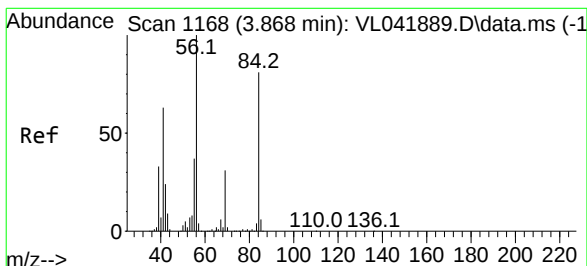
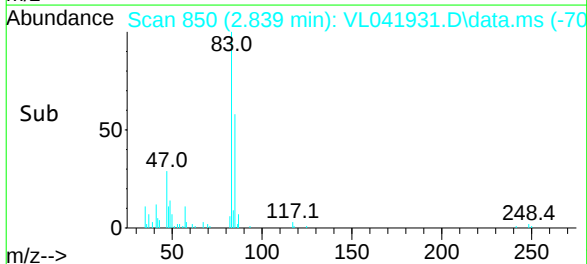
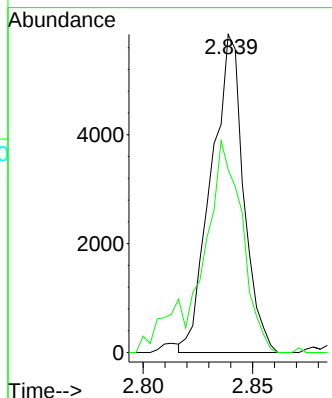
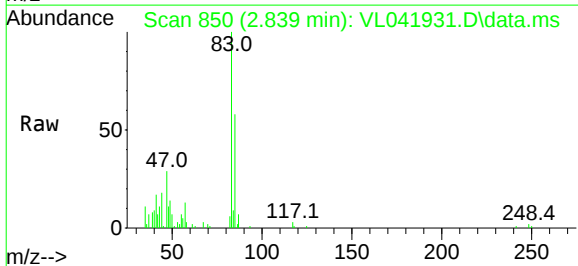
SV2

Tgt Ion:	83	Resp:	6003
Ion	Ratio	Lower	Upper
83	100		
85	57.5	50.1	75.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#30

Cyclohexane

Concen: 0.183 ppbv m

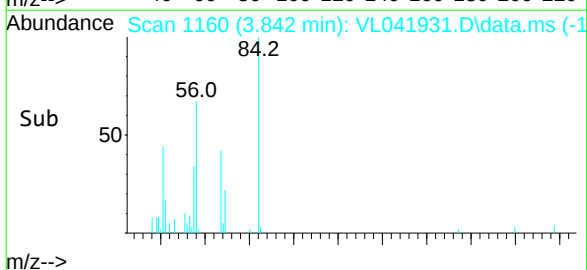
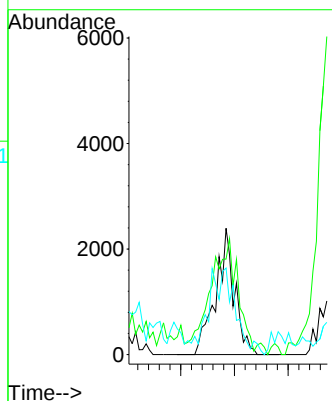
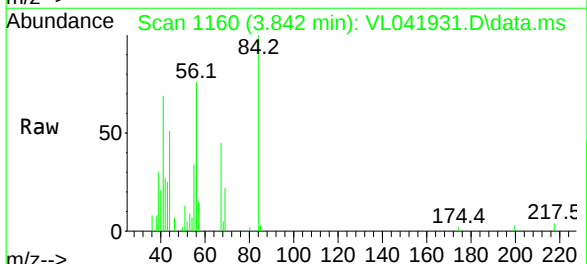
RT: 3.842 min Scan# 1160

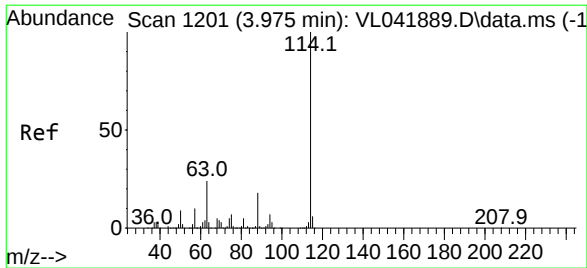
Delta R.T. -0.026 min

Lab File: VL041931.D

Acq: 20 Jan 2025 21:59

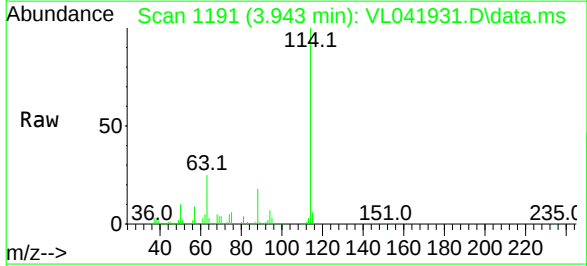
Tgt Ion:	84	Resp:	2926
Ion	Ratio	Lower	Upper
84	100		
56	142.0	99.3	148.9
41	97.1	64.3	96.5





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.943 min Scan# 111
 Delta R.T. -0.032 min
 Lab File: VL041931.D
 Acq: 20 Jan 2025 21:59

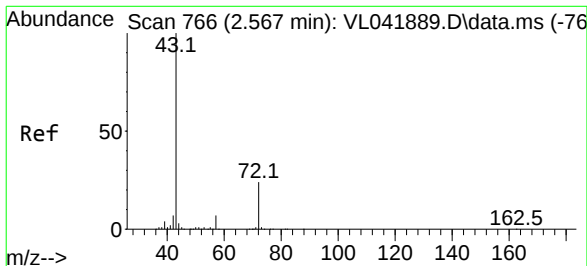
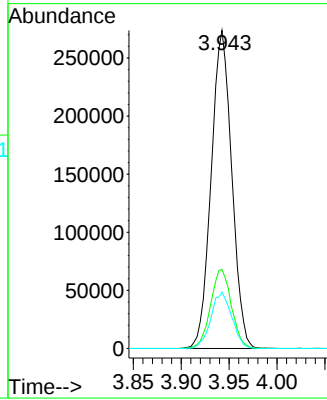
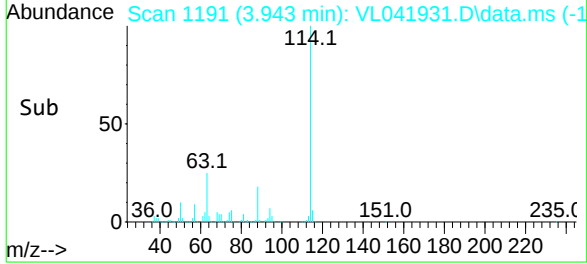
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	114	Resp:	408896
Ion	Ratio	Lower	Upper
114	100		
63	25.2	19.8	29.6
88	18.0	14.4	21.6

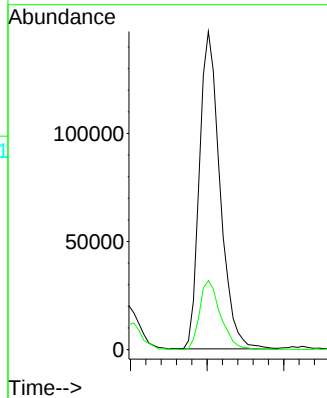
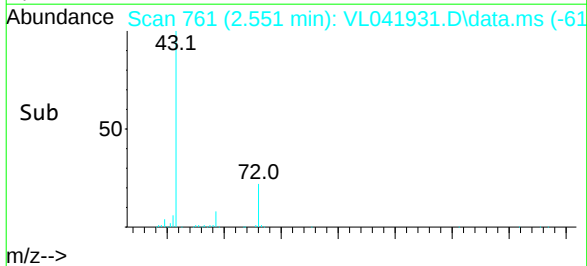
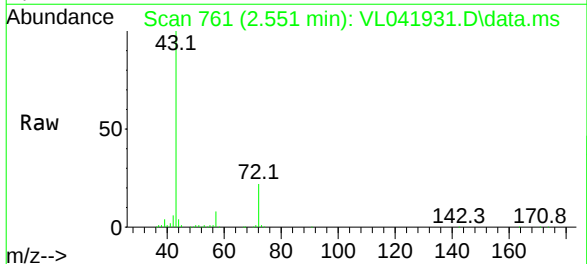
Manual Integrations
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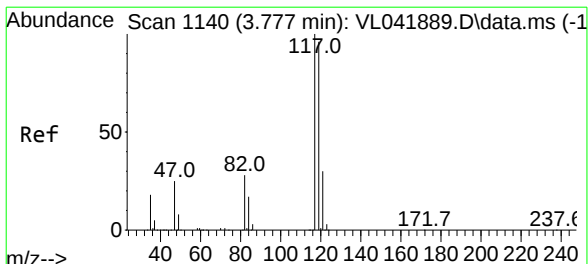
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#34
 2-Butanone
 Concen: 5.264 ppbv
 RT: 2.551 min Scan# 761
 Delta R.T. -0.016 min
 Lab File: VL041931.D
 Acq: 20 Jan 2025 21:59

Tgt Ion:	43	Resp:	136872
Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.6	28.0



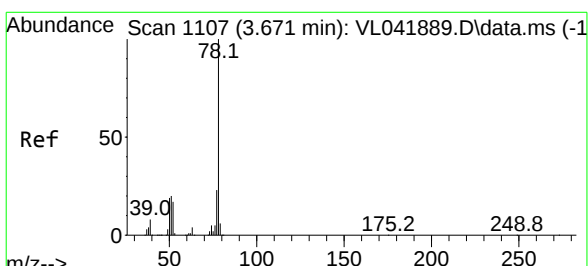
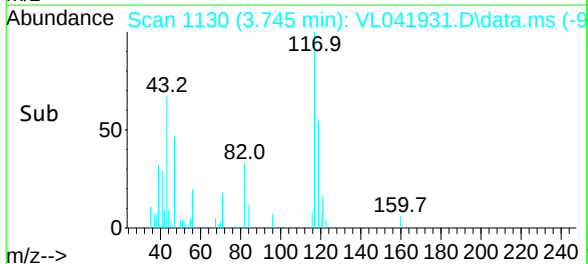
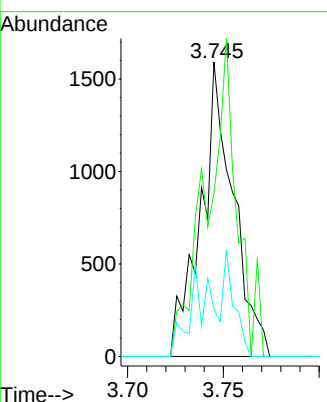
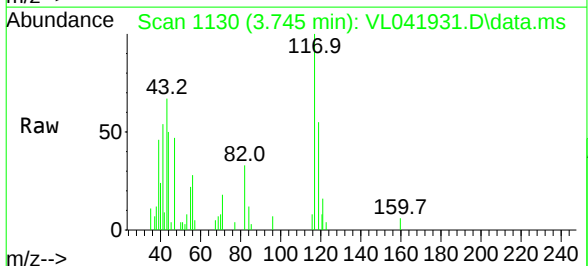


#35
Carbon Tetrachloride
Concen: 0.073 ppbv
RT: 3.745 min Scan# 11
Delta R.T. -0.032 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument : MSVOA_L
ClientSampleId : SV2

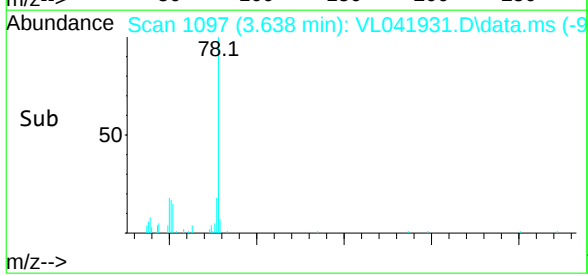
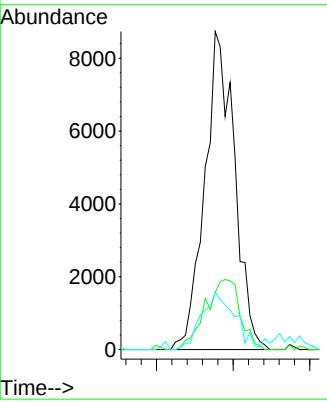
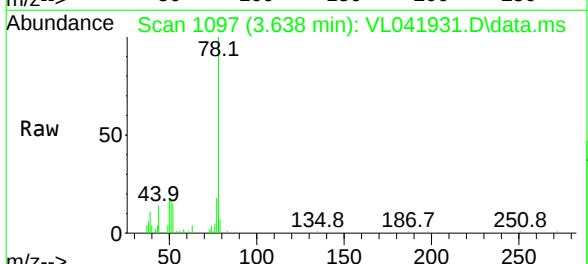
Tgt Ion:	117	Resp:	1881
Ion Ratio	Lower	Upper	
117	100		
119	55.3	76.9	115.3#
121	16.1	23.8	35.6#

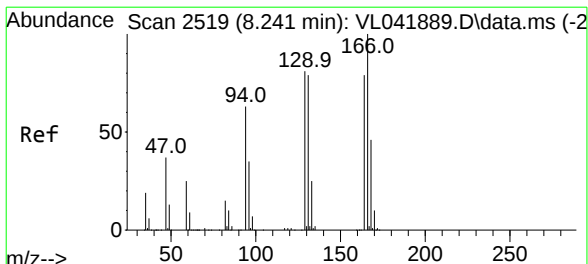
Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#36
Benzene
Concen: 0.314 ppbv
RT: 3.638 min Scan# 1097
Delta R.T. -0.032 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

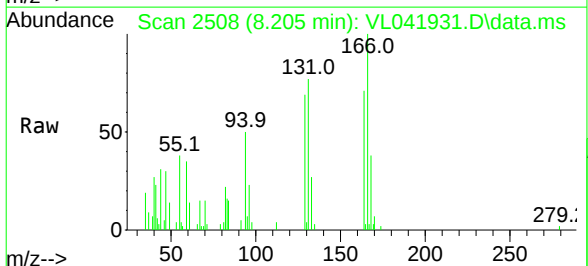
Tgt Ion:	78	Resp:	11789
Ion Ratio	Lower	Upper	
78	100		
77	18.1	18.1	27.1#
50	18.1	15.2	22.8





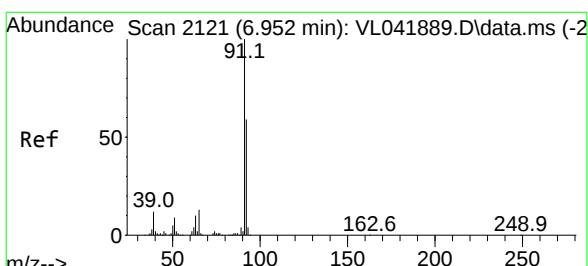
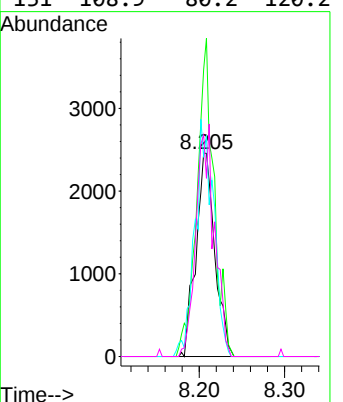
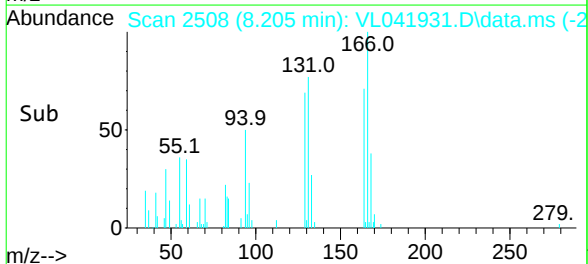
#52
Tetrachloroethene
 Concen: 0.291 ppbv m
 RT: 8.205 min Scan# 2519
 Delta R.T. -0.035 min
 Lab File: VL041931.D
 Acq: 20 Jan 2025 21:59

Instrument : MSVOA_L
ClientSampleId : SV2

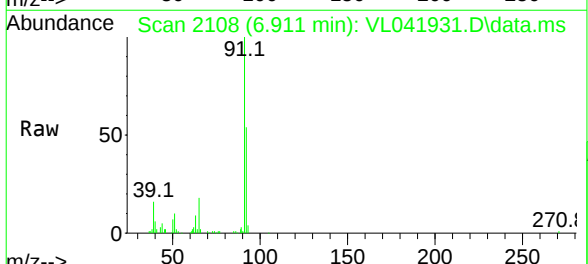


Tgt Ion:	164	Resp:	3788
Ion	Ratio	Lower	Upper
164	100		
166	141.2	100.8	151.2
129	97.9	82.0	123.0
131	108.9	80.2	120.2

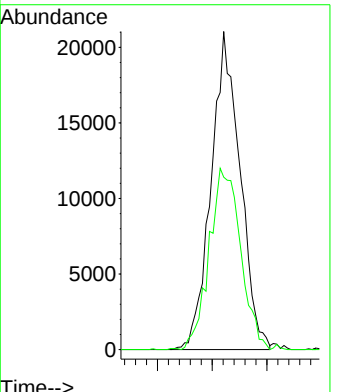
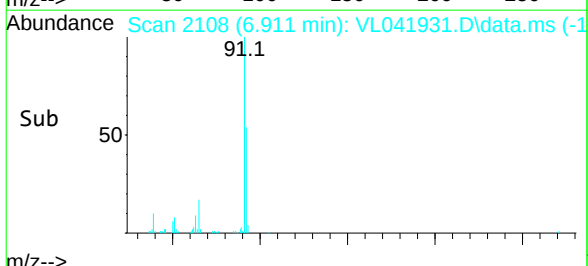
Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025

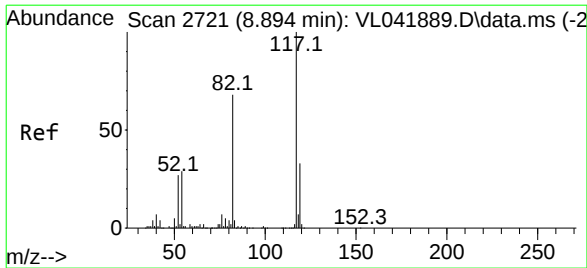


#53
Toluene
 Concen: 0.946 ppbv
 RT: 6.911 min Scan# 2108
 Delta R.T. -0.042 min
 Lab File: VL041931.D
 Acq: 20 Jan 2025 21:59



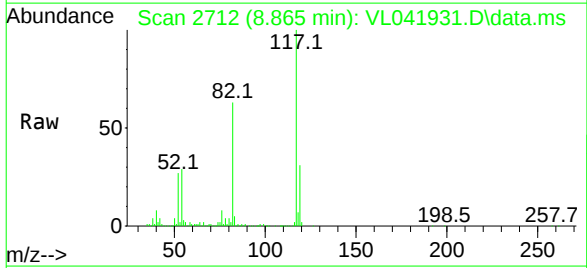
Tgt Ion:	91	Resp:	38661
Ion	Ratio	Lower	Upper
91	100		
92	62.1	47.4	71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 2721
Delta R.T. -0.029 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

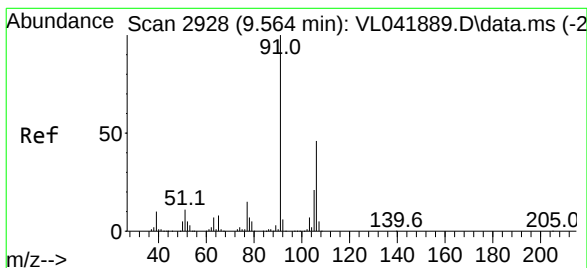
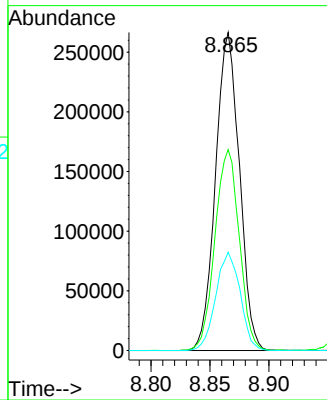
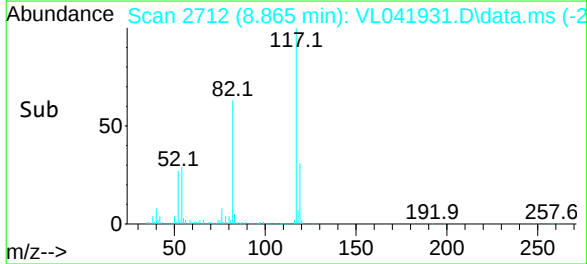
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 117 Resp: 375860
Ion Ratio Lower Upper
117 100
82 64.4 54.2 81.4
119 31.5 25.0 37.6

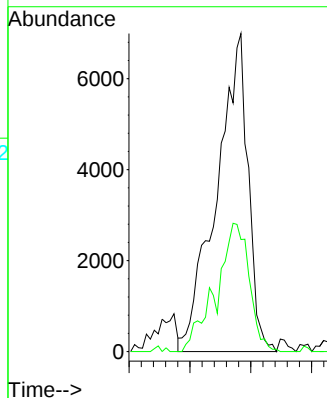
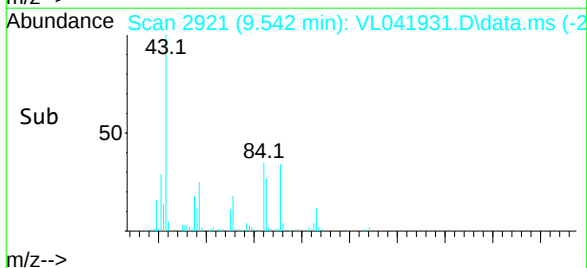
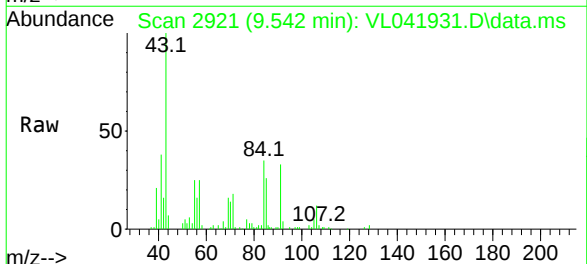
Manual Integrations
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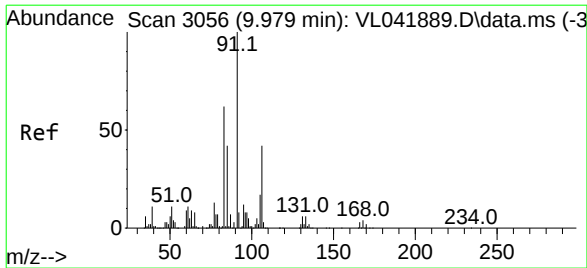
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#59
m/p-Xylene
Concen: 0.268 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. -0.023 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

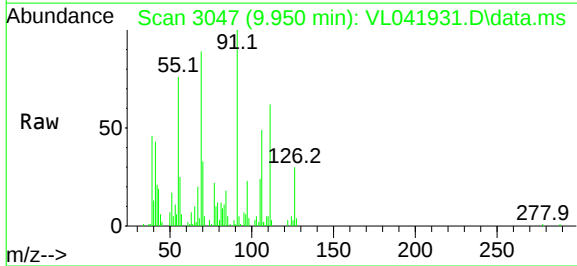
Tgt Ion: 91 Resp: 12601
Ion Ratio Lower Upper
91 100
106 42.8 36.0 54.0





#60
o-Xylene
Concen: 0.269 ppbv
RT: 9.950 min Scan# 3056
Delta R.T. -0.029 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

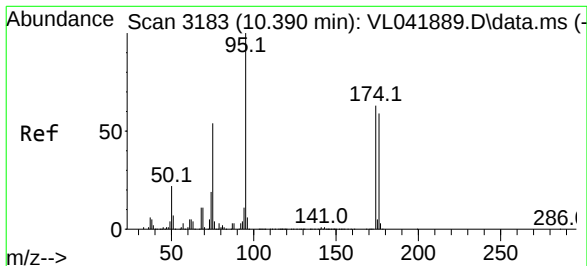
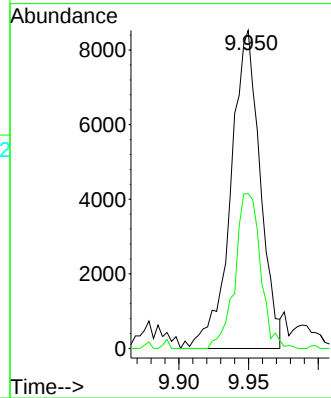
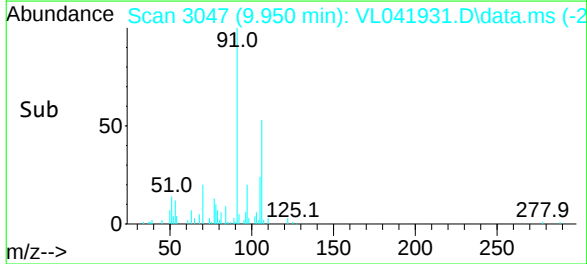
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 91 Resp: 12559
Ion Ratio Lower Upper
91 100
106 42.3 21.3 63.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.984 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.026 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 95 Resp: 295570
Ion Ratio Lower Upper
95 100
174 59.5 49.0 73.4
175 4.5 3.8 5.8

