

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042806.D
 Acq On : 04 Aug 2025 15:44
 Operator : SY/MD
 Sample : Q2750-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 05 01:07:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 5

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	162780	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	464881	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	398366	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 335920 10.648 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.500%

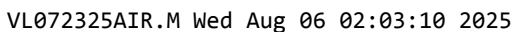
Target Compounds

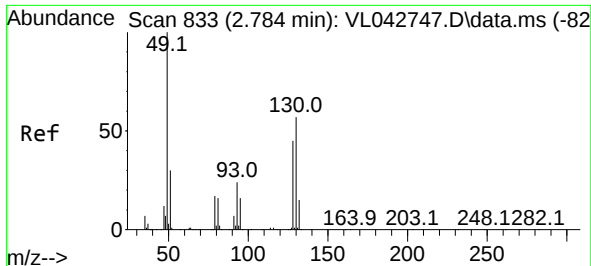
						Qvalue
2) Dichlorodifluoromethane	1.499	85	12758	0.593	ppbv	98
3) Chlorodifluoromethane	1.476	51	1351589	48.209	ppbv #	90
4) Chloromethane	1.531	50	5691	0.654	ppbv	92
9) Propene	1.489	41	154985m	15.210	ppbv	
10) Heptane	4.981	43	6039m	0.220	ppbv	
11) Trichlorofluoromethane	1.881	101	4494	0.203	ppbv	92
13) Ethanol	1.728	45	3700748	4986.827	ppbv	94
15) Acetone	1.835	43	2155988	95.918	ppbv #	80
19) Isopropyl Alcohol	1.974	45	21721192m	1818.473	ppbv	
20) Methylene Chloride	2.065	84	16608	2.345	ppbv	88
25) Ethyl Acetate	2.842	43	200376m	4.027	ppbv	
26) Hexane	2.829	57	47214	2.163	ppbv #	1
27) Carbon Disulfide	2.152	76	46700	2.499	ppbv #	65
29) Chloroform	2.852	83	18480	0.548	ppbv	100
34) 2-Butanone	2.570	43	42826m	1.301	ppbv	
35) Carbon Tetrachloride	3.768	117	2295m	0.066	ppbv	
36) Benzene	3.661	78	13222	0.300	ppbv #	88
41) Tetrahydrofuran	3.078	42	6216m	0.371	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	7974m	0.111	ppbv	
53) Toluene	6.943	91	31303	0.662	ppbv	96
59) m/p-Xylene	9.532	91	10202m	0.203	ppbv	
61) Styrene	9.875	104	3442	0.163	ppbv #	85
69) p-Isopropyltoluene	11.930	119	45031	0.590	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	6323	0.117	ppbv #	75
79) Naphthalene	13.520	128	1344	0.457	ppbv #	79

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

Manual Integrations

Quant Time: Aug 05 01:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





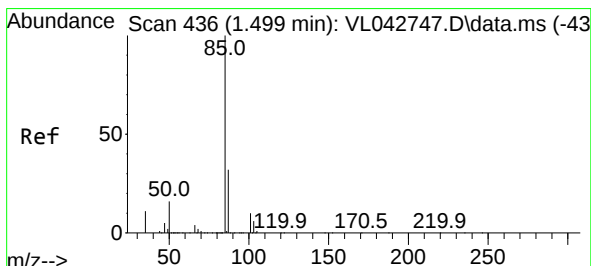
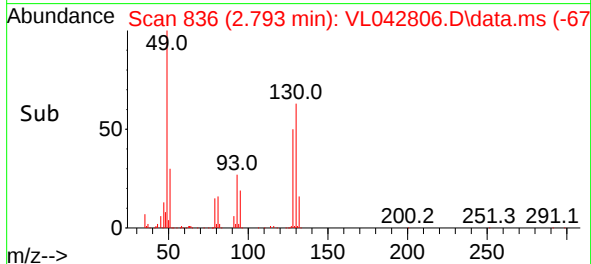
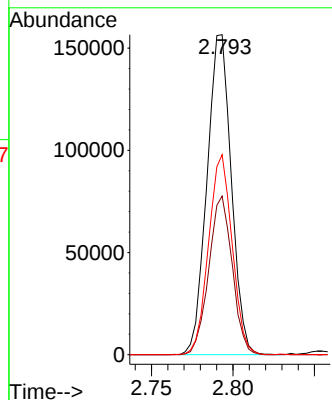
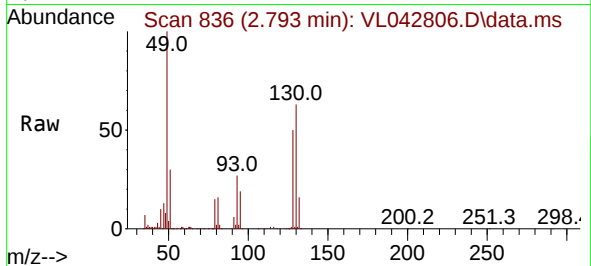
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 49 Resp: 162780
Ion Ratio Lower Upper
49 100
128 47.7 23.6 71.0
130 60.5 30.3 90.8

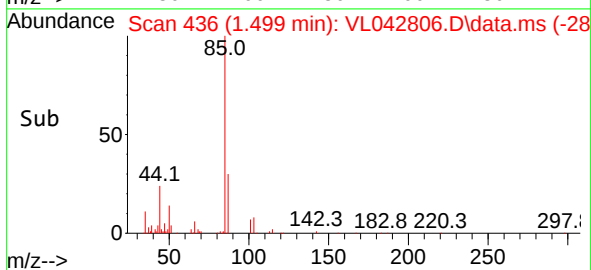
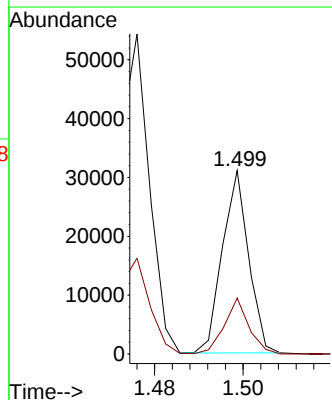
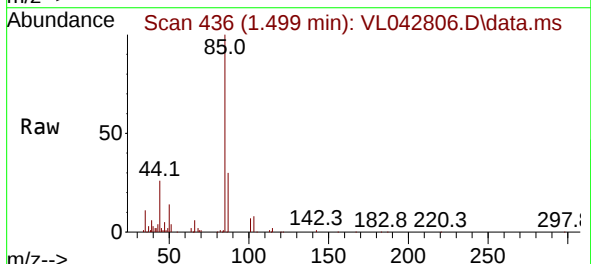
Manual Integrations
APPROVED

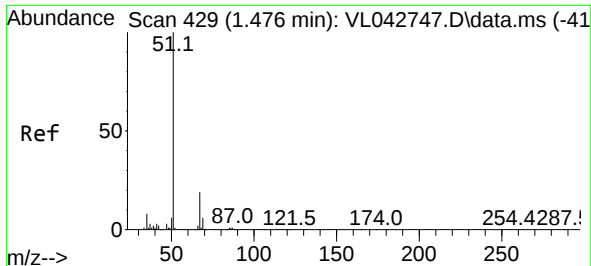
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 0.593 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 85 Resp: 12758
Ion Ratio Lower Upper
85 100
87 30.7 25.4 38.2





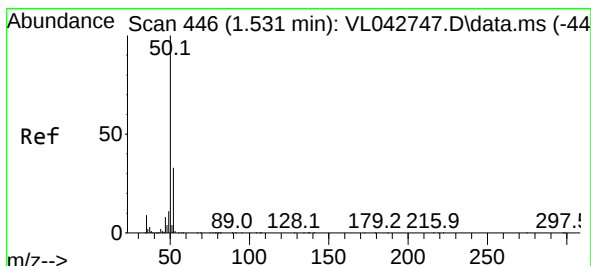
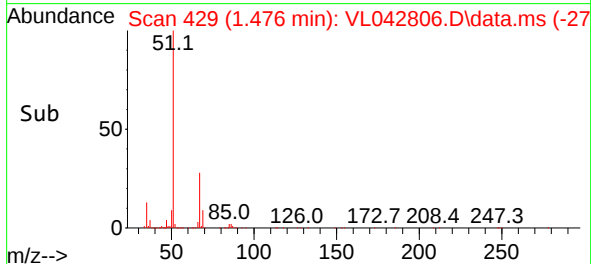
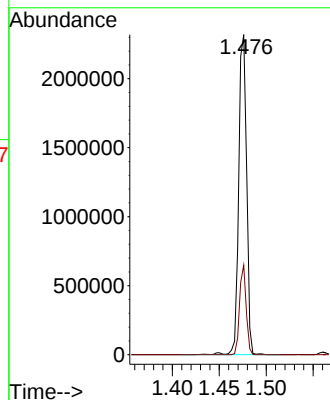
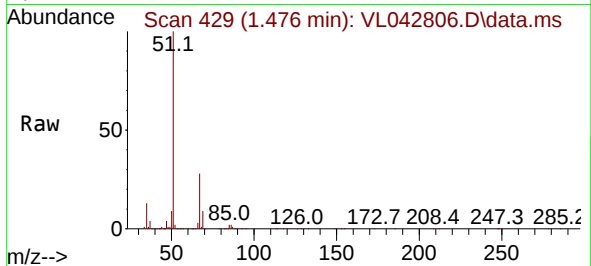
#3
Chlorodifluoromethane
Concen: 48.209 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 51 Resp: 1351589
Ion Ratio Lower Upper
51 100
67 23.3 15.0 22.6

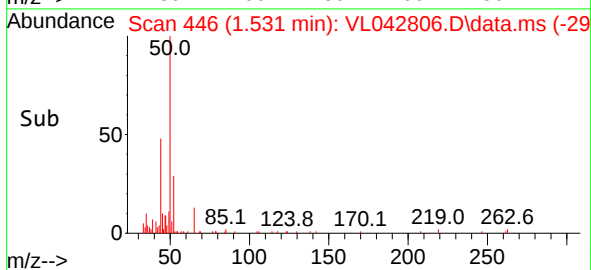
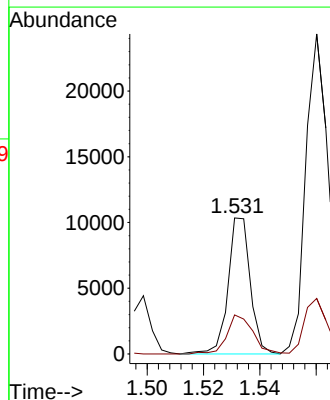
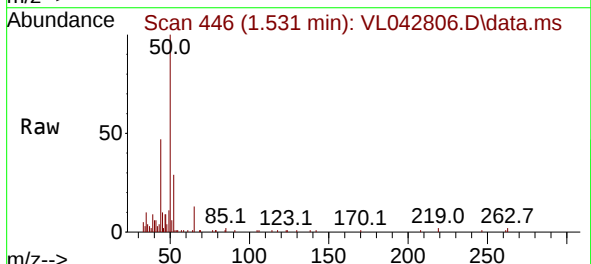
Manual Integrations
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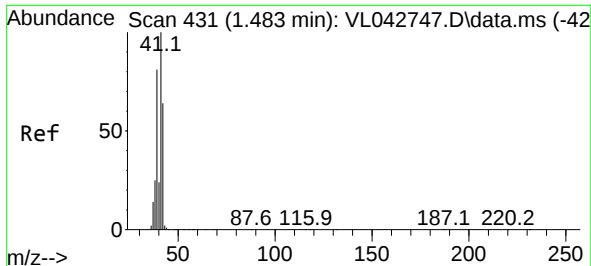
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#4
Chloromethane
Concen: 0.654 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

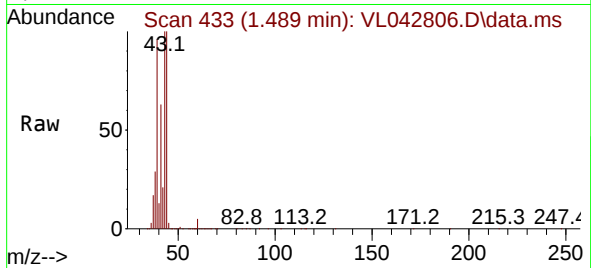
Tgt Ion: 50 Resp: 5691
Ion Ratio Lower Upper
50 100
52 28.7 26.6 40.0





#9
 Propene
 Concen: 15.210 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042806.D
 Acq: 04 Aug 2025 15:44

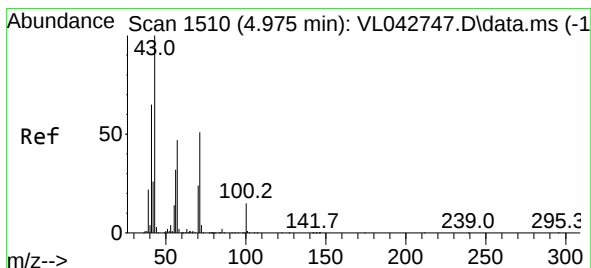
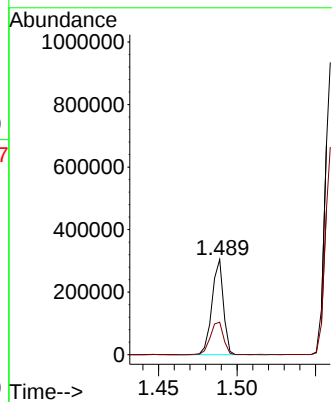
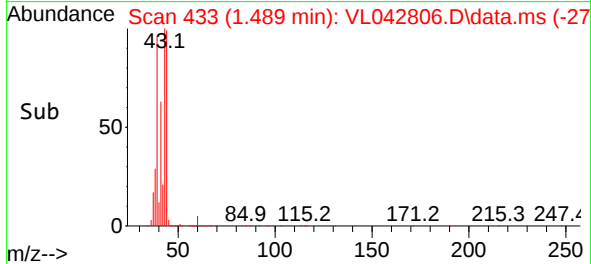
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-8



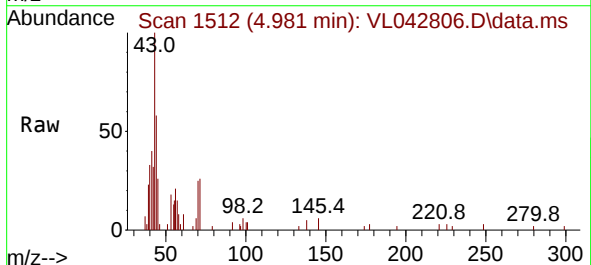
Tgt Ion: 41 Resp: 15498
 Ion Ratio Lower Upper
 41 100
 42 238.7 53.2 79.8

Manual Integrations
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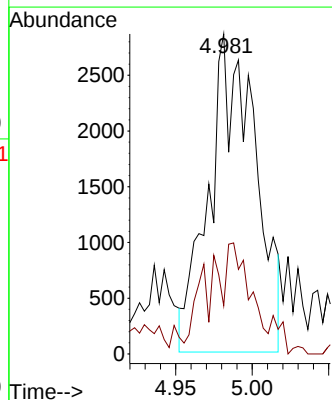
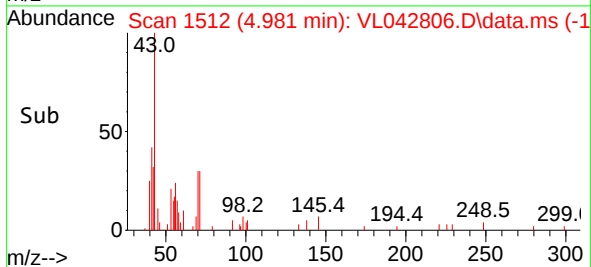
Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

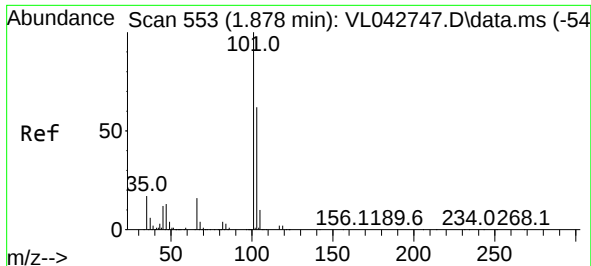


#10
 Heptane
 Concen: 0.220 ppbv m
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.006 min
 Lab File: VL042806.D
 Acq: 04 Aug 2025 15:44



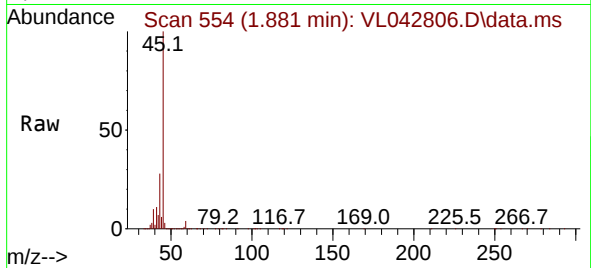
Tgt Ion: 43 Resp: 6039
 Ion Ratio Lower Upper
 43 100
 57 44.2 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.203 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

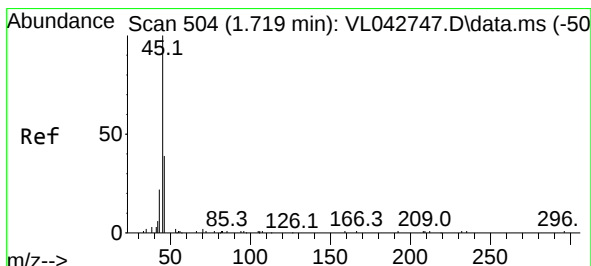
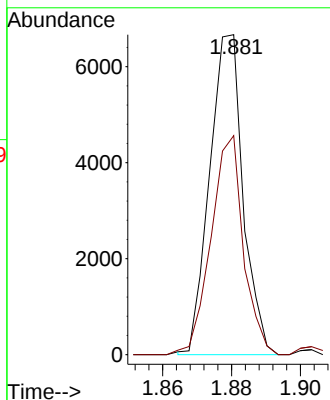
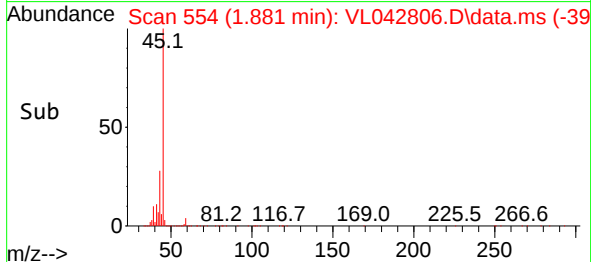
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



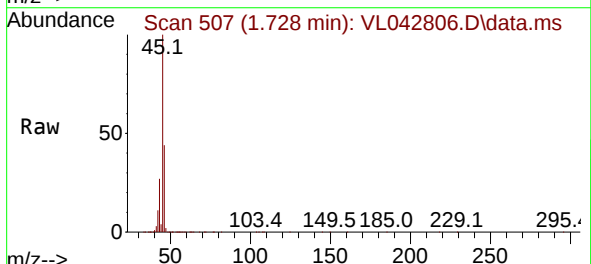
Tgt Ion:101 Resp: 4494
Ion Ratio Lower Upper
101 100
103 68.4 49.6 74.4

Manual Integrations
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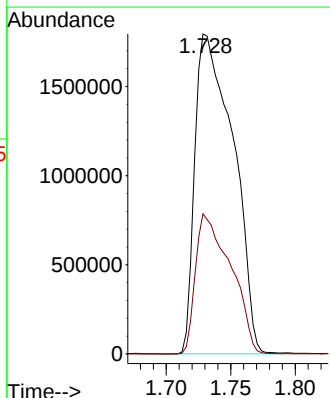
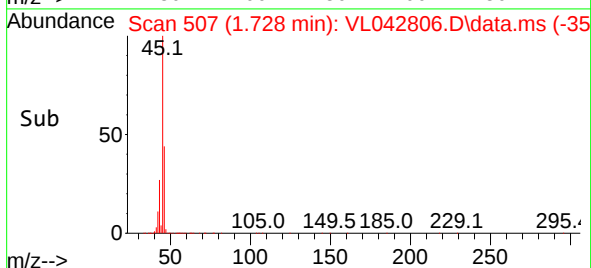
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

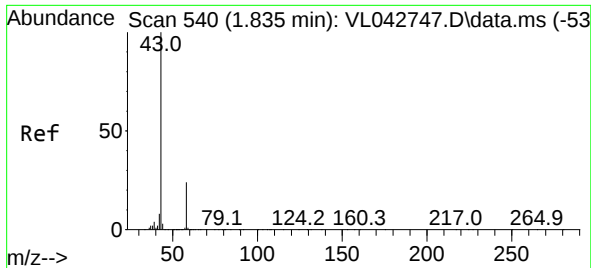


#13
Ethanol
Concen: 4986.827 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44



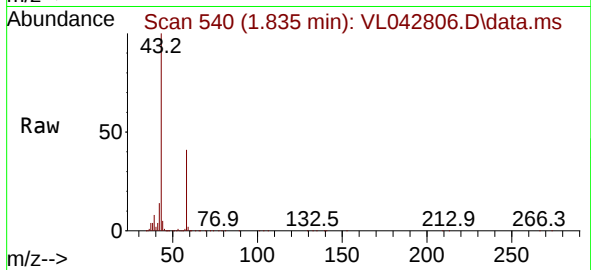
Tgt Ion: 45 Resp: 3700748
Ion Ratio Lower Upper
45 100
46 40.5 17.8 71.4





#15
Acetone
Concen: 95.918 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

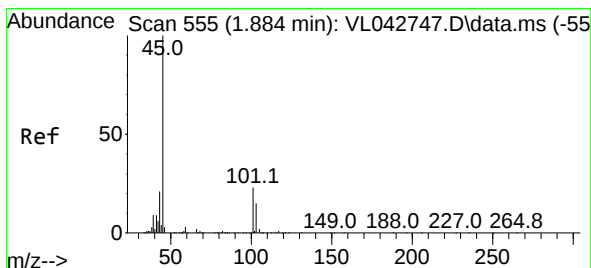
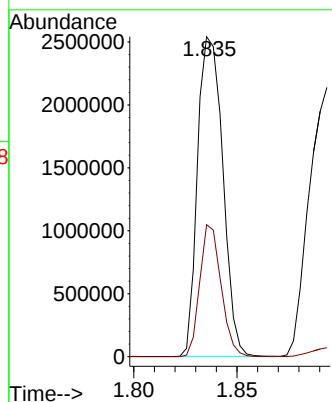
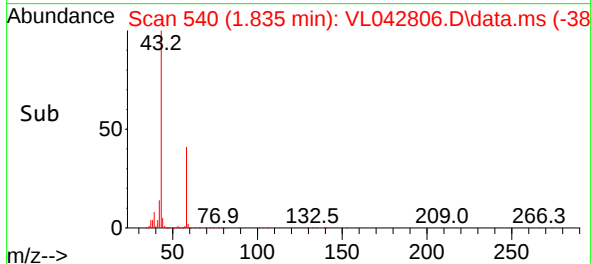
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



Tgt Ion: 43 Resp: 215598
Ion Ratio Lower Upper
43 100
58 34.9 19.8 29.8

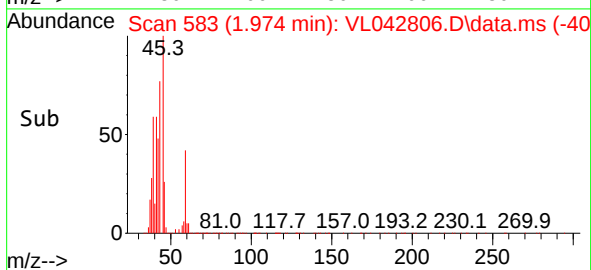
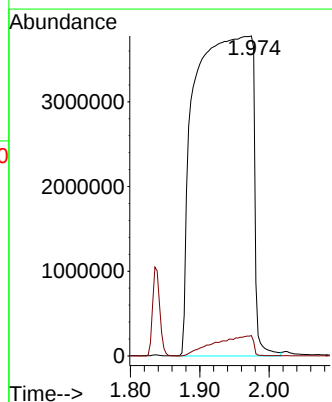
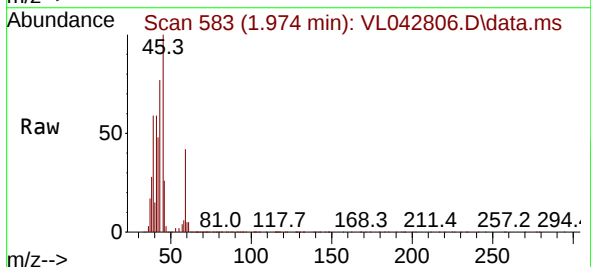
Manual Integrations
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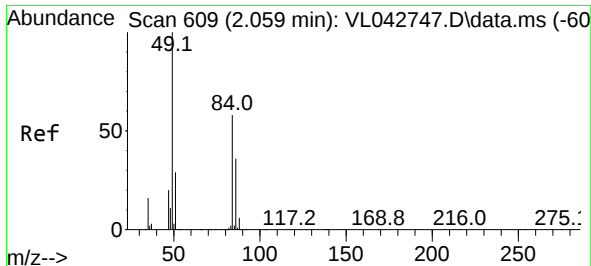
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#19
Isopropyl Alcohol
Concen: 1818.473 ppbv m
RT: 1.974 min Scan# 583
Delta R.T. 0.090 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 45 Resp:21721192
Ion Ratio Lower Upper
45 100
58 0.0 30.0 45.0#





#20

Methylene Chloride

Concen: 2.345 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042806.D

Acq: 04 Aug 2025 15:44

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-8

Tgt Ion: 84 Resp: 16608

Ion Ratio Lower Upper

84 100

49 147.6 138.6 208.0

51 46.9 40.6 61.0

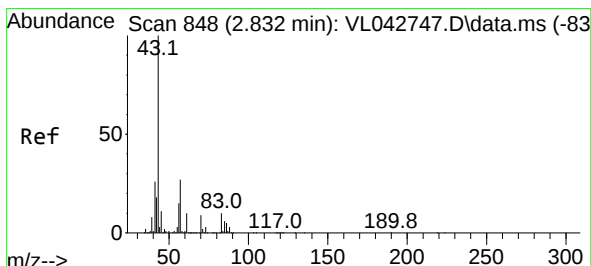
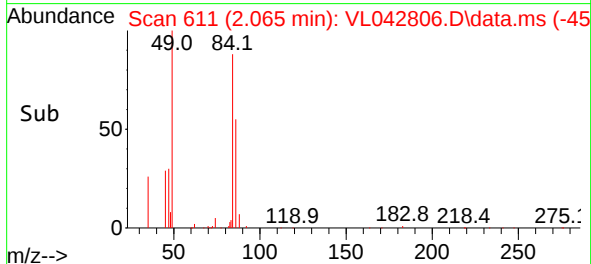
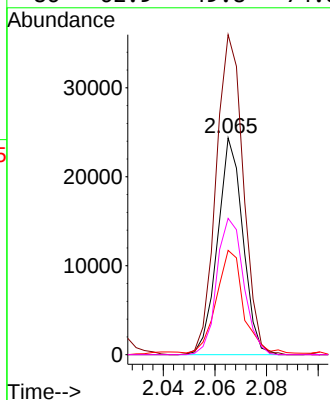
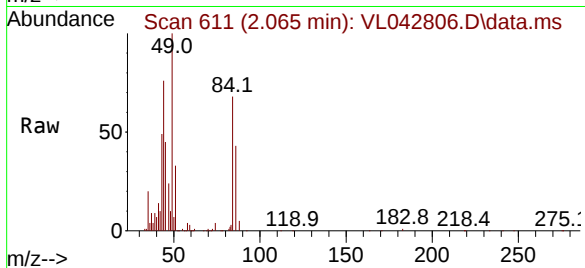
86 62.9 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#25

Ethyl Acetate

Concen: 4.027 ppbv m

RT: 2.842 min Scan# 851

Delta R.T. 0.010 min

Lab File: VL042806.D

Acq: 04 Aug 2025 15:44

Tgt Ion: 43 Resp: 200376

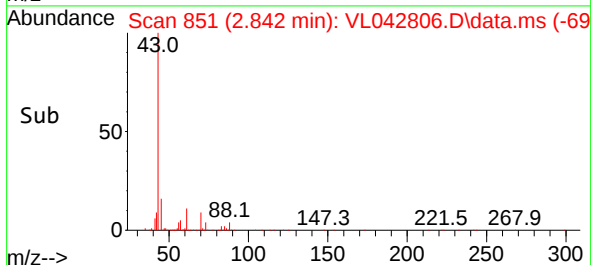
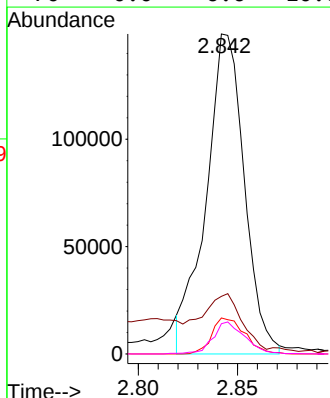
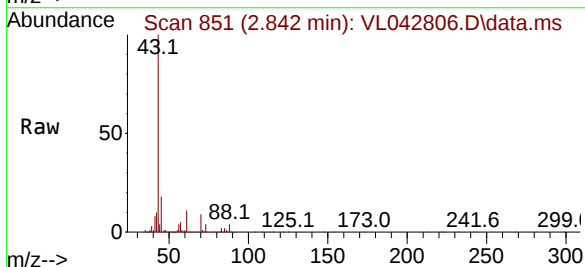
Ion Ratio Lower Upper

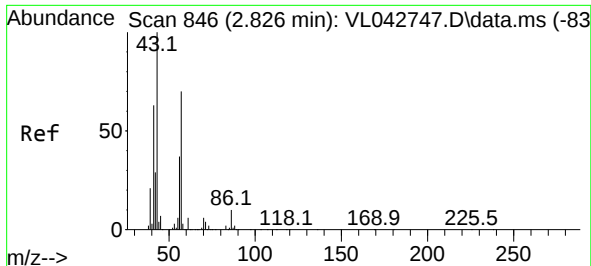
43 100

45 0.0 7.8 11.6#

61 0.0 6.7 10.1#

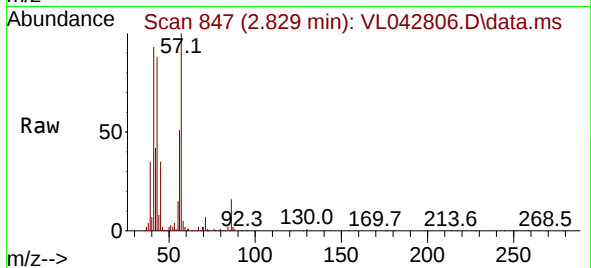
70 0.0 6.6 10.0#





#26
Hexane
Concen: 2.163 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

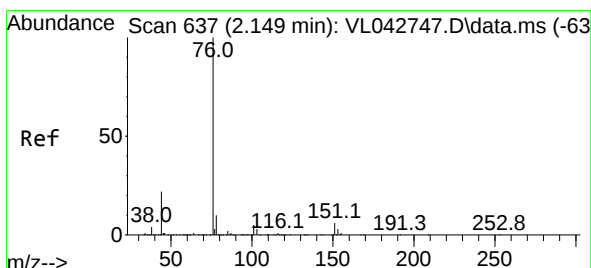
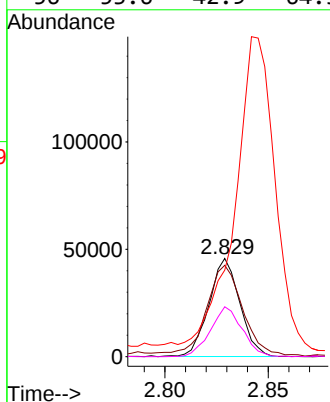
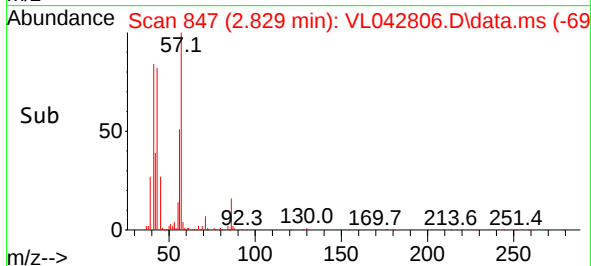
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



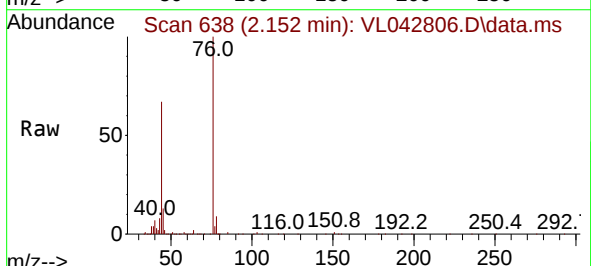
Tgt Ion: 57 Resp: 47214
Ion Ratio Lower Upper
57 100
41 112.6 75.4 113.2
43 491.6 185.0 277.6
56 53.6 42.9 64.3

Manual Integrations
APPROVED

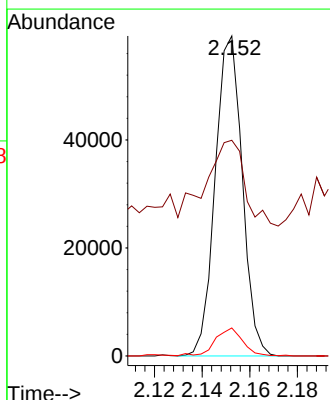
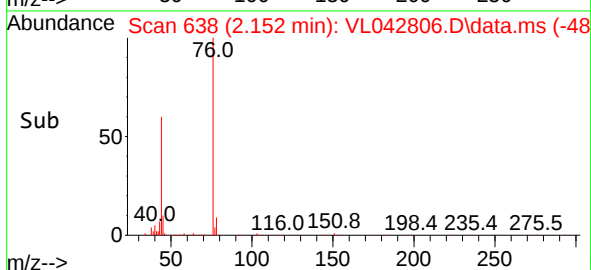
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

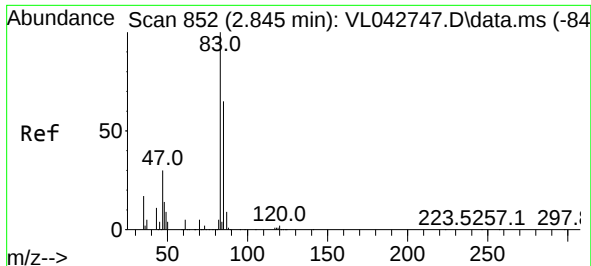


#27
Carbon Disulfide
Concen: 2.499 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44



Tgt Ion: 76 Resp: 46700
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 9.3 9.9 14.9#





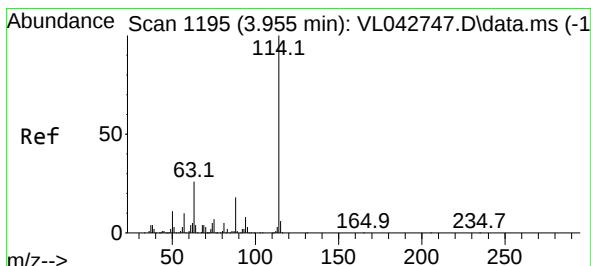
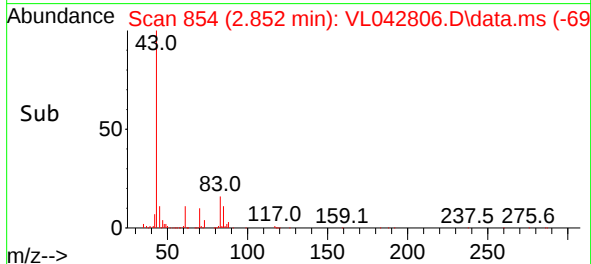
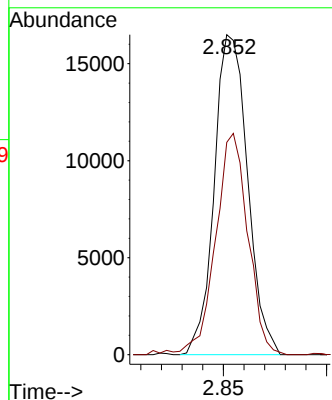
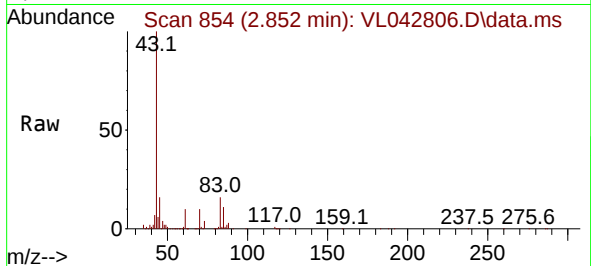
#29
Chloroform
Concen: 0.548 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion: 83 Resp: 18480
Ion Ratio Lower Upper
83 100
85 65.6 52.2 78.2

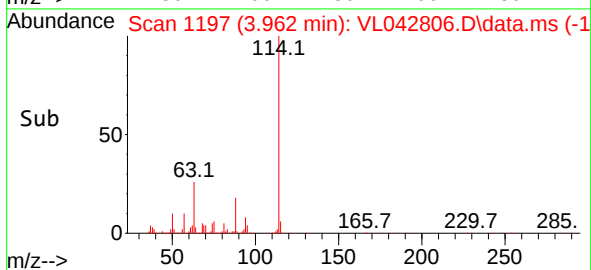
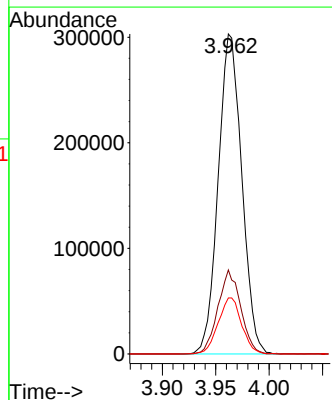
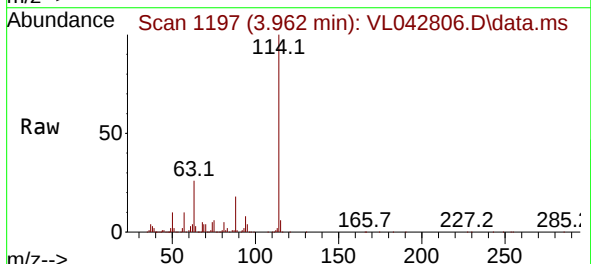
Manual Integrations
APPROVED

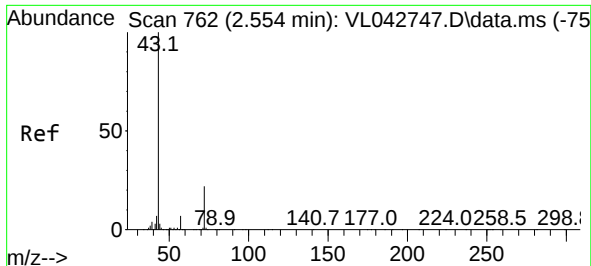
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

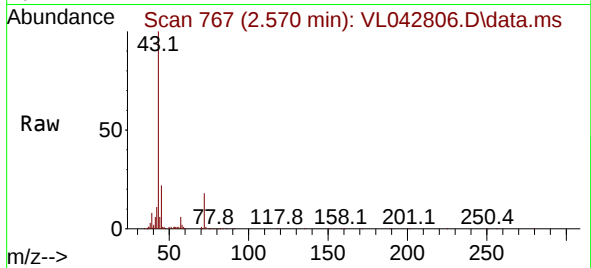
Tgt Ion:114 Resp: 464881
Ion Ratio Lower Upper
114 100
63 25.4 20.5 30.7
88 17.4 14.0 21.0





#34
2-Butanone
Concen: 1.301 ppbv m
RT: 2.570 min Scan# 762
Delta R.T. 0.016 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

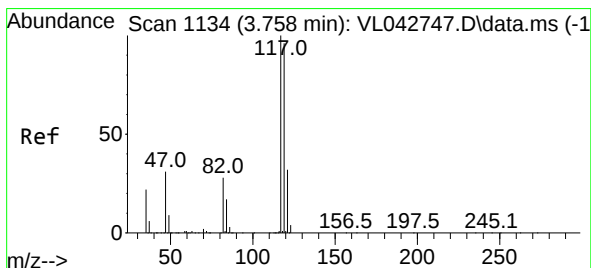
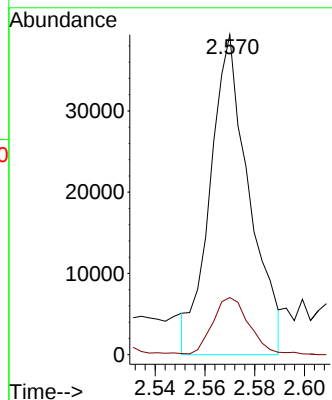
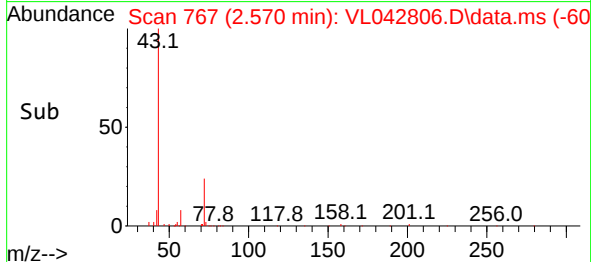
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



Tgt Ion: 43 Resp: 42820
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.0

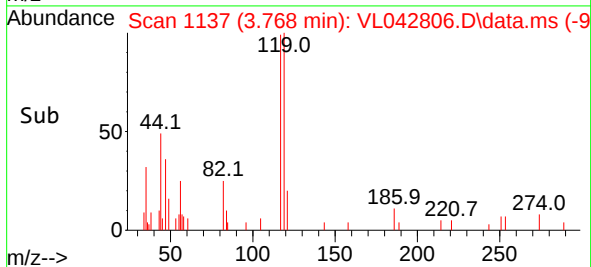
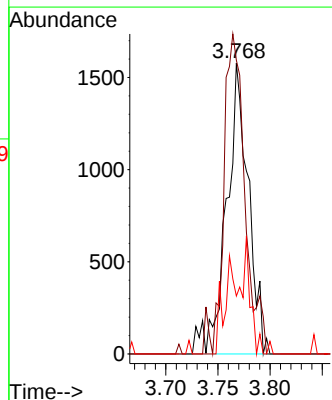
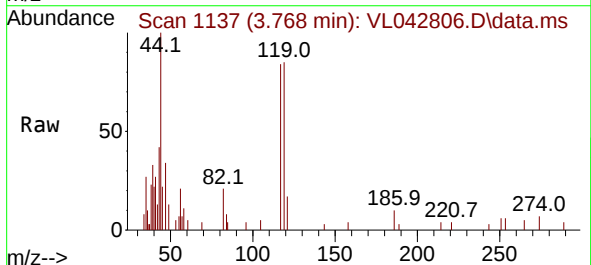
Manual Integrations
APPROVED

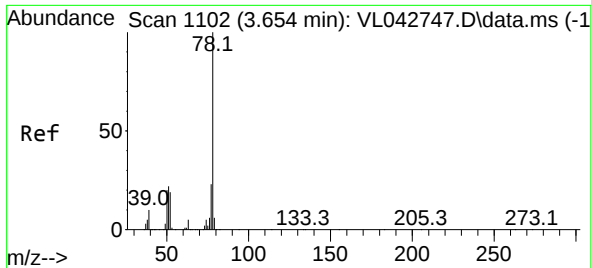
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

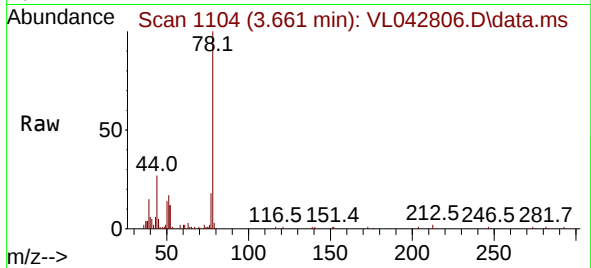
Tgt Ion:117 Resp: 2295
Ion Ratio Lower Upper
117 100
119 101.0 77.1 115.7
121 19.9 25.5 38.3





#36
Benzene
Concen: 0.300 ppbv
RT: 3.661 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

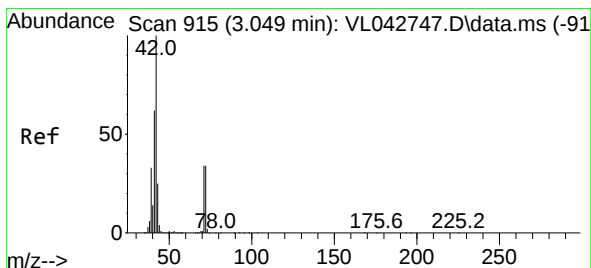
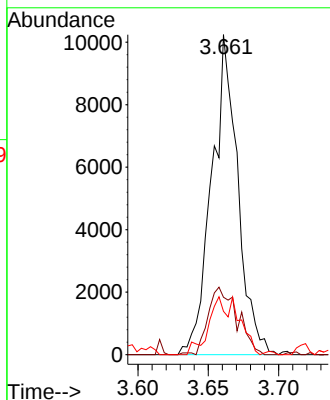
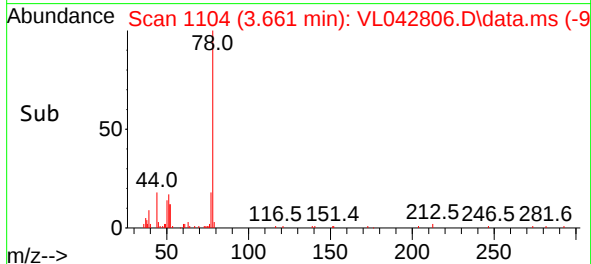
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



Tgt Ion: 78 Resp: 1322
Ion Ratio Lower Upper
78 100
77 17.9 18.5 27.7
50 13.5 16.2 24.2

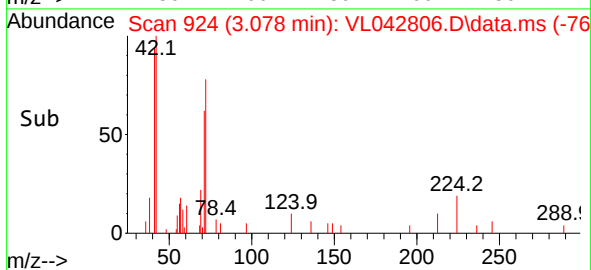
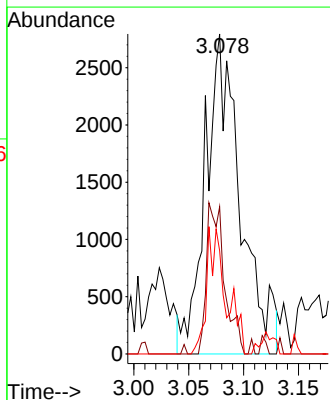
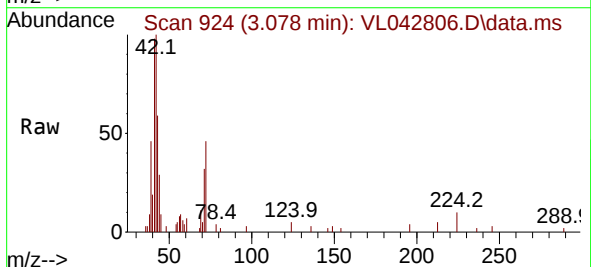
Manual Integrations
APPROVED

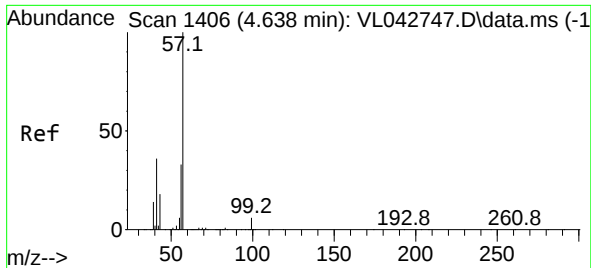
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#41
Tetrahydrofuran
Concen: 0.371 ppbv m
RT: 3.078 min Scan# 924
Delta R.T. 0.029 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

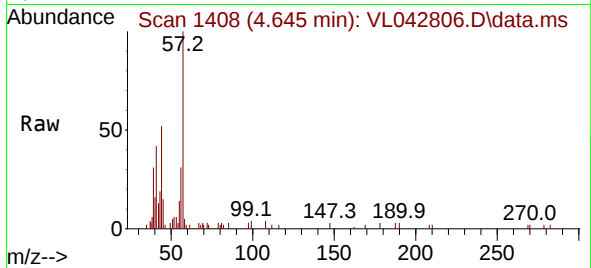
Tgt Ion: 42 Resp: 6216
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#





#44
2,2,4-Trimethylpentane
Concen: 0.111 ppbv m
RT: 4.645 min Scan# 1406
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

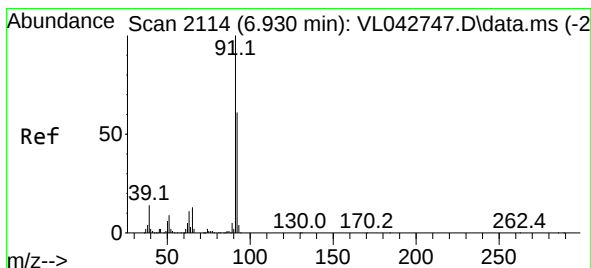
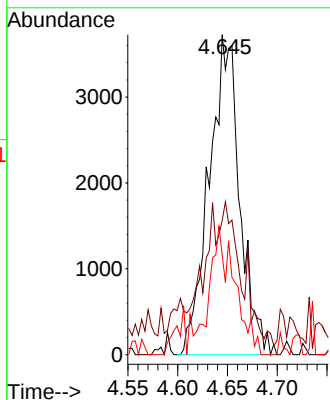
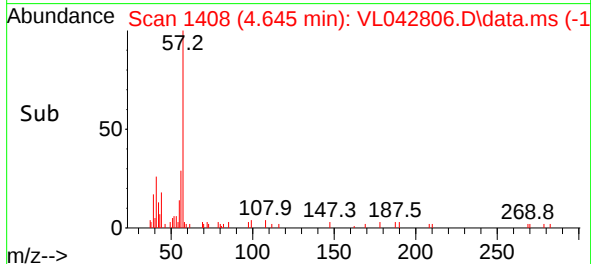
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



Tgt Ion: 57 Resp: 7974
Ion Ratio Lower Upper
57 100
41 65.2 28.3 42.5
56 38.8 25.8 38.6

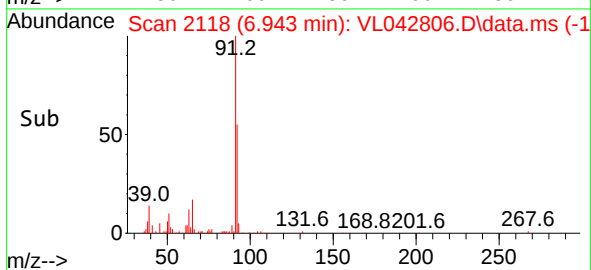
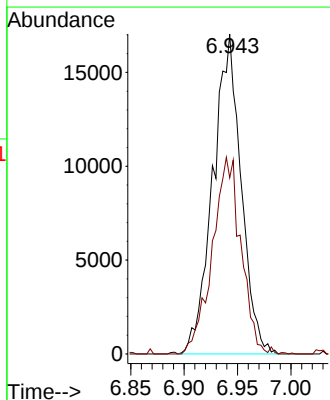
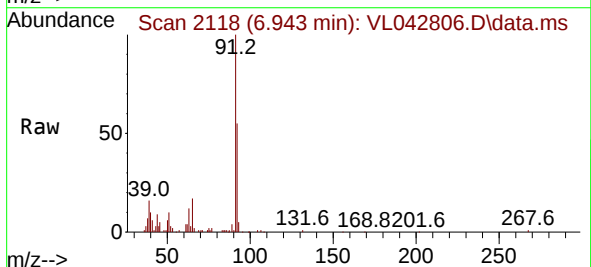
Manual Integrations
APPROVED

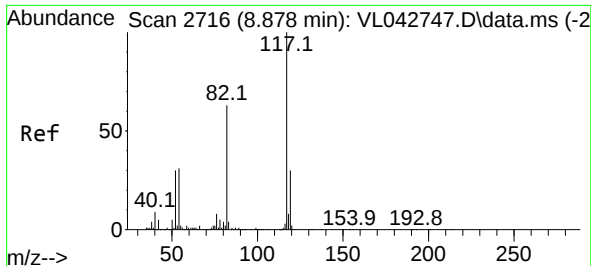
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#53
Toluene
Concen: 0.662 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Tgt Ion: 91 Resp: 31303
Ion Ratio Lower Upper
91 100
92 62.7 48.0 72.0





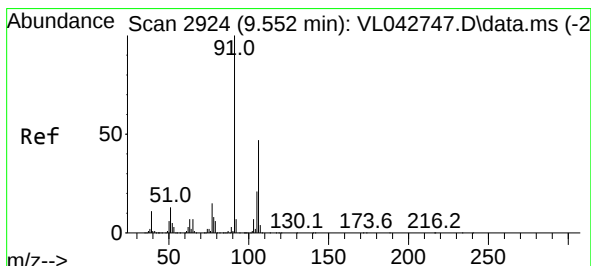
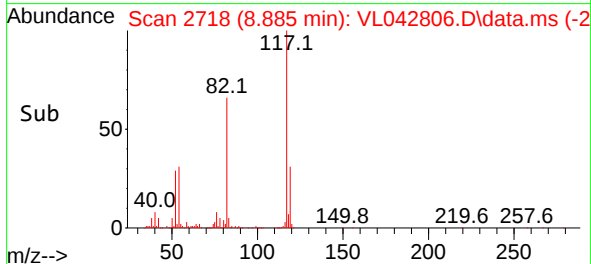
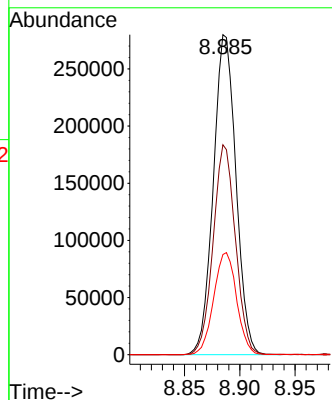
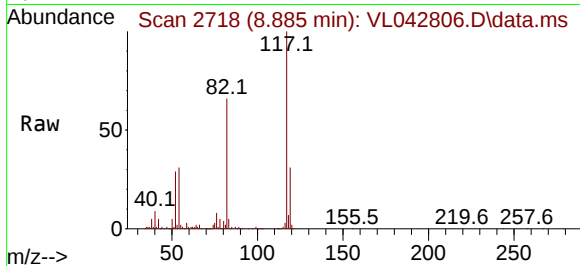
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8

Tgt Ion:117 Resp: 398360
Ion Ratio Lower Upper
117 100
82 64.7 53.3 79.9
119 32.5 25.8 38.6

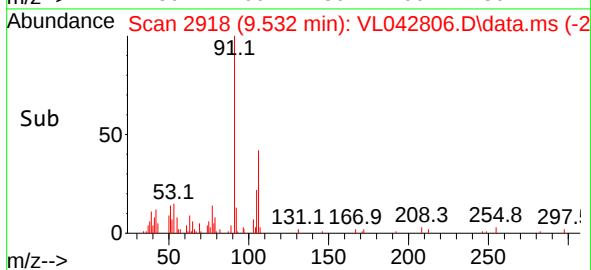
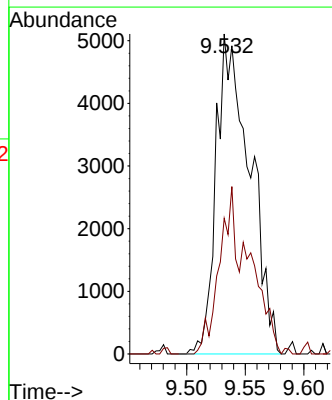
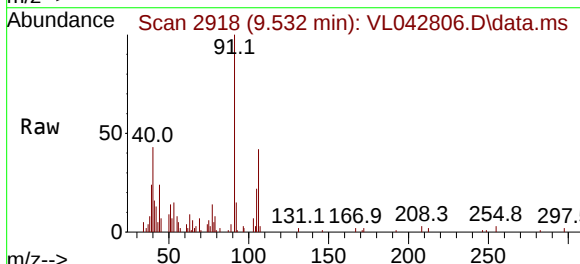
Manual Integrations
APPROVED

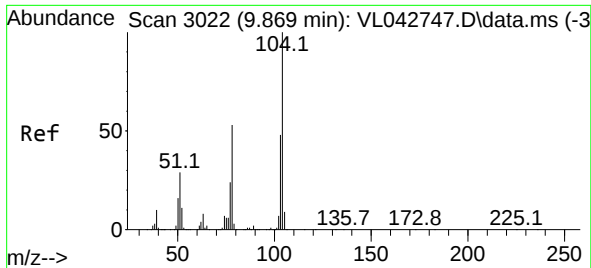
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#59
m/p-Xylene
Concen: 0.203 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.020 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

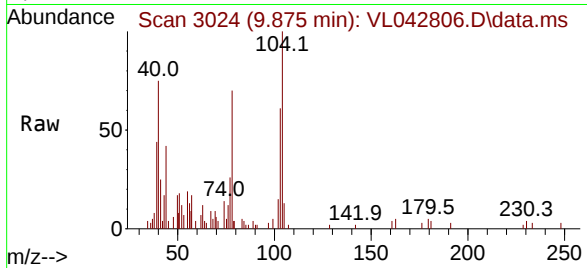
Tgt Ion: 91 Resp: 10202
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





#61
Styrene
Concen: 0.163 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

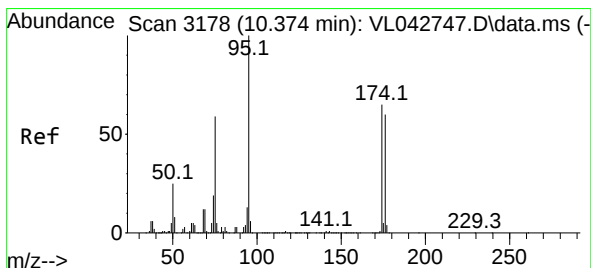
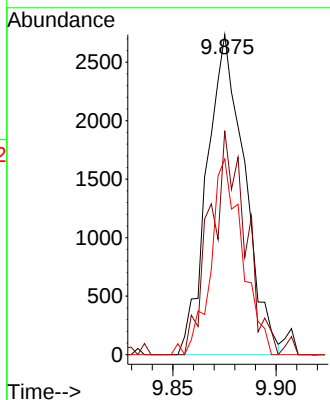
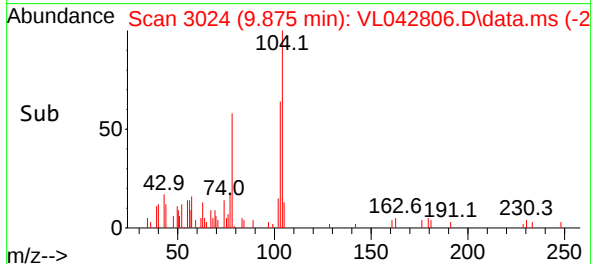
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



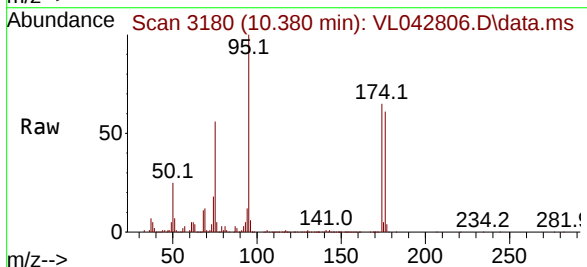
Tgt Ion:104 Resp: 3442
Ion Ratio Lower Upper
104 100
78 67.5 41.5 62.3
103 51.6 37.5 56.3

Manual Integrations
APPROVED

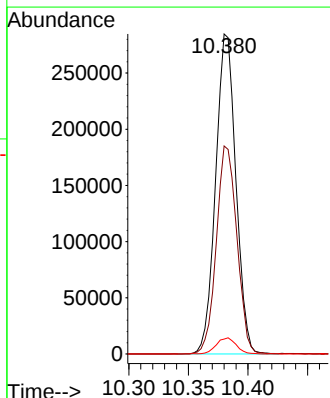
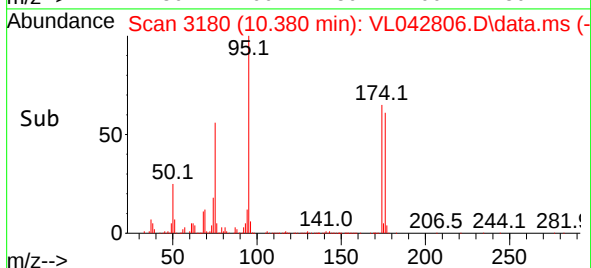
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

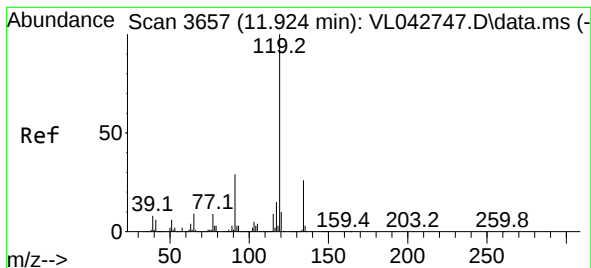


#68
1-Bromo-4-Fluorobenzene
Concen: 10.648 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44



Tgt Ion: 95 Resp: 335920
Ion Ratio Lower Upper
95 100
174 65.9 53.8 80.6
175 5.0 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.590 ppbv

RT: 11.930 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL042806.D

Acq: 04 Aug 2025 15:44

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-8

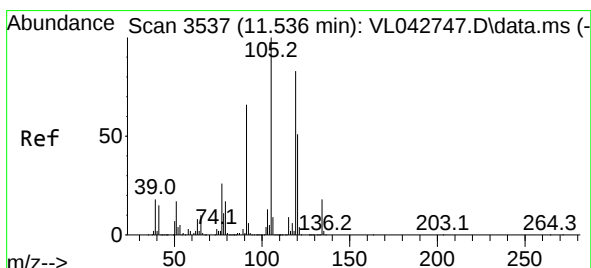
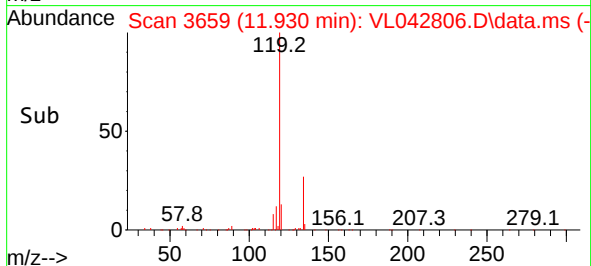
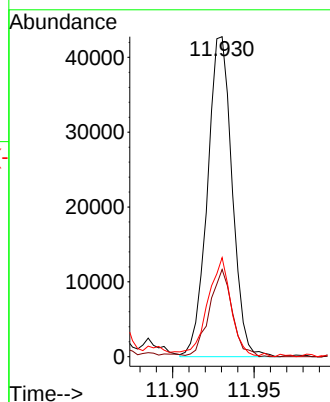
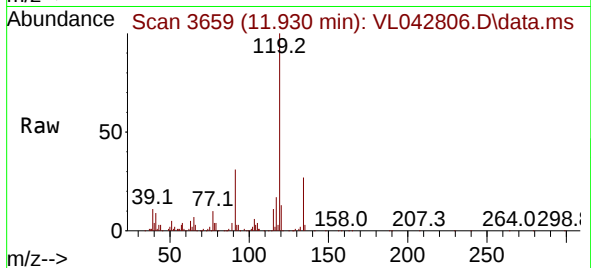
Tgt Ion:119 Resp: 4503

Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.6	31.0
91	30.4	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.117 ppbv

RT: 11.539 min Scan# 3538

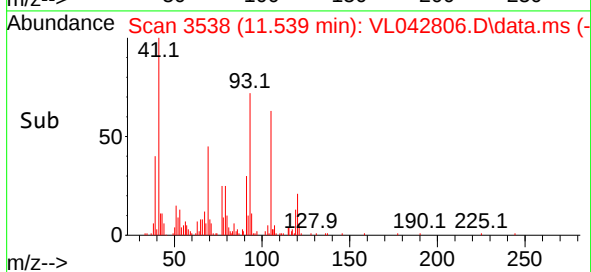
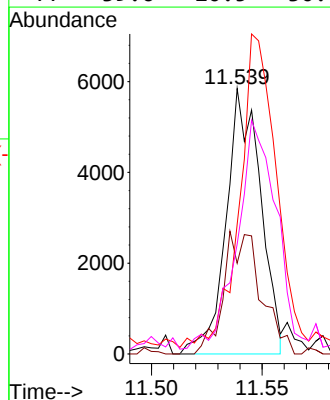
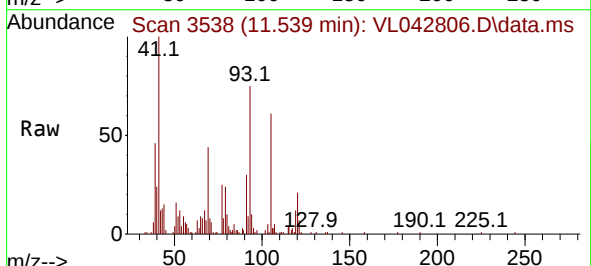
Delta R.T. 0.003 min

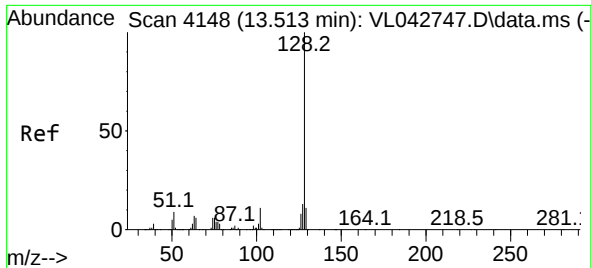
Lab File: VL042806.D

Acq: 04 Aug 2025 15:44

Tgt Ion:105 Resp: 6323

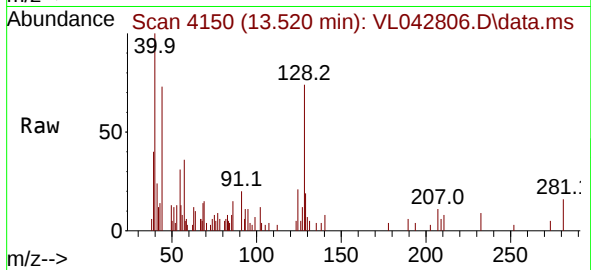
Ion	Ratio	Lower	Upper
105	100		
120	34.2	40.8	61.2#
91	46.3	53.0	79.4#
77	39.6	20.5	30.7#





#79
Naphthalene
Concen: 0.457 ppbv
RT: 13.520 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042806.D
Acq: 04 Aug 2025 15:44

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-8



Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.5	15.7
129	25.0	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

