

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043246.D
 Acq On : 19 Nov 2025 18:55
 Operator : SY/MD
 Sample : Q3626-12 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 16-SG-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/21/2025
 Supervised By : Mahesh Dadoda 11/21/2025

Quant Time: Nov 20 00:09:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	107506	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	305536	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.868	117	246745	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.367	95	178880	9.890	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	4013	0.265	ppbv	99
9) Propene	1.482	41	9652	1.524	ppbv #	86
10) Heptane	4.965	43	21077	1.118	ppbv	91
11) Trichlorofluoromethane	1.874	101	1784m	0.121	ppbv	
13) Ethanol	1.722	45	782847	351.579	ppbv	98
15) Acetone	1.835	43	4713258	315.559	ppbv #	26
17) tert-Butyl alcohol	2.036	59	201360	10.271	ppbv	99
19) Isopropyl Alcohol	1.884	45	369187	43.742	ppbv #	36
20) Methylene Chloride	2.059	84	6888	0.847	ppbv	88
26) Hexane	2.819	57	25163	1.782	ppbv #	42
27) Carbon Disulfide	2.146	76	7909	0.549	ppbv #	72
32) 1,1,1-Trichloroethane	3.363	97	1879m	0.088	ppbv	
34) 2-Butanone	2.551	43	204250	9.470	ppbv	99
36) Benzene	3.651	78	4837	0.165	ppbv #	84
40) 1,4-Dioxane	4.577	88	27891	5.793	ppbv #	90
41) Tetrahydrofuran	3.052	42	17731	1.489	ppbv #	51
50) 4-Methyl-2-Pentanone	5.739	43	108494m	3.571	ppbv	
51) 2-Hexanone	7.425	43	28430m	1.205	ppbv	
52) Tetrachloroethene	8.215	164	56759	5.215	ppbv	98
53) Toluene	6.920	91	30132	0.870	ppbv	98
59) m/p-Xylene	9.522	91	16446	0.432	ppbv	99
60) o-Xylene	9.956	91	5915	0.156	ppbv	95
61) Styrene	9.859	104	2621m	0.157	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	4674	0.110	ppbv #	55

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

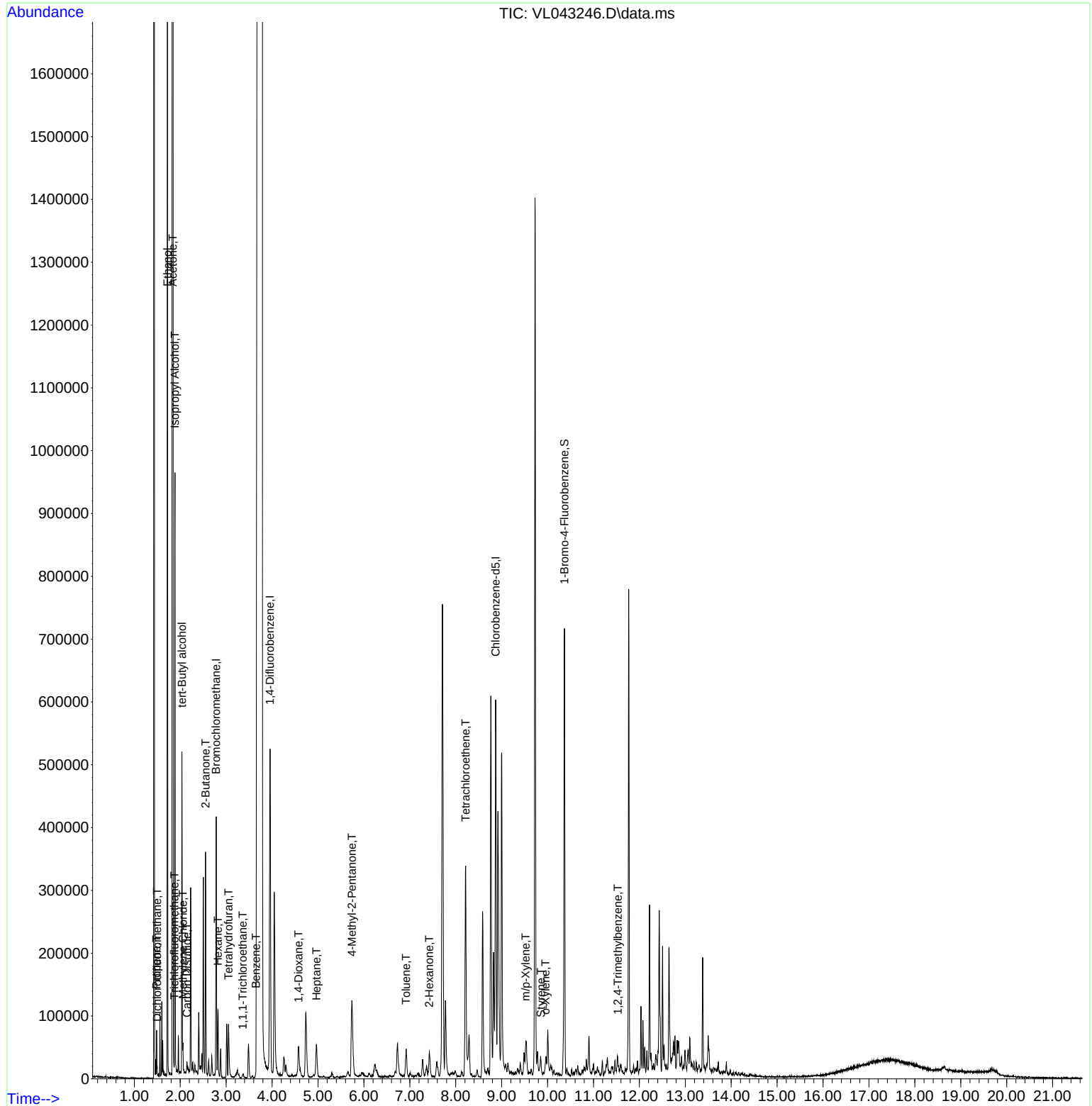
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043246.D
Acq On : 19 Nov 2025 18:55
Operator : SY/MD
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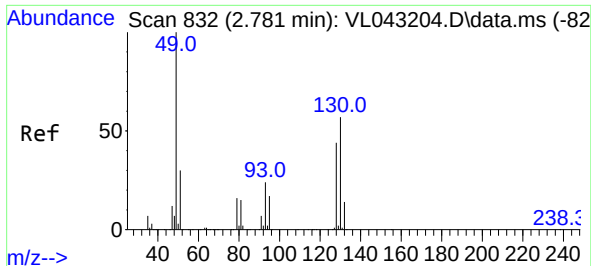
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Quant Time: Nov 20 00:09:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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Supervised By :Mahesh Dadoda 11/21/2025





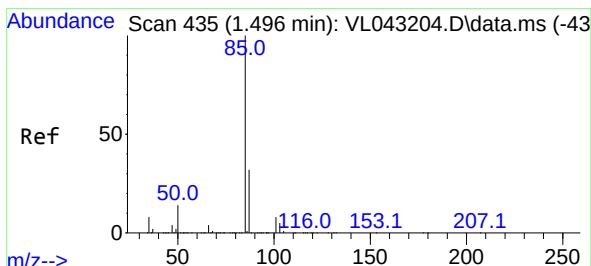
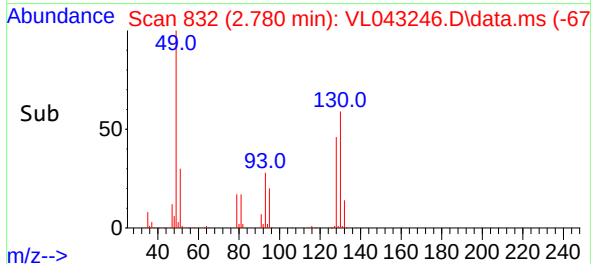
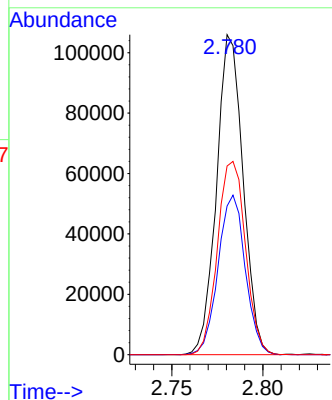
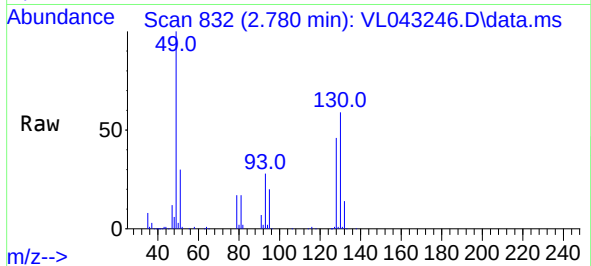
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.001 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 49 Resp: 107500
Ion Ratio Lower Upper
49 100
128 51.0 23.0 69.0
130 63.9 29.9 89.7

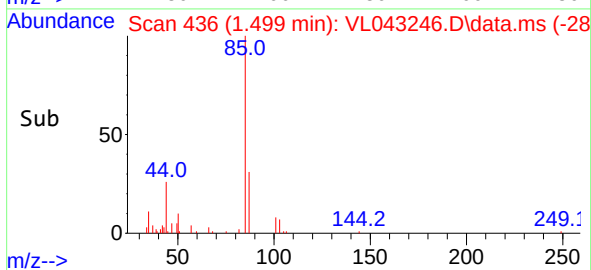
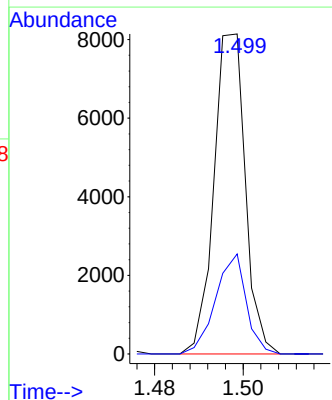
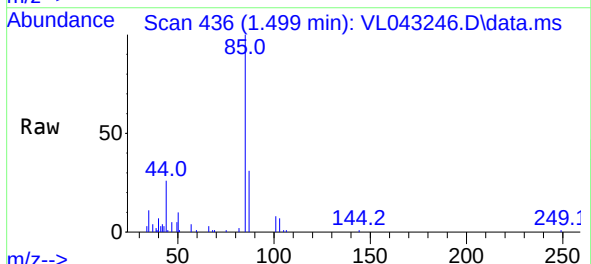
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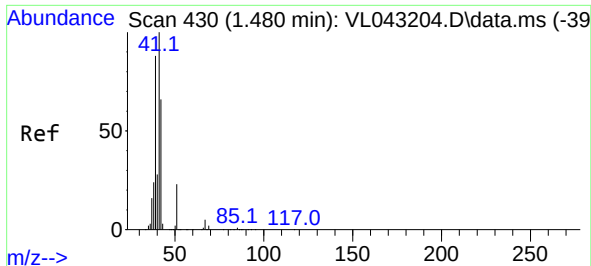
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.265 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

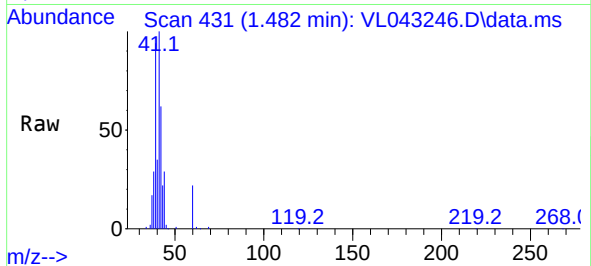
Tgt Ion: 85 Resp: 4013
Ion Ratio Lower Upper
85 100
87 31.3 25.4 38.2





#9
Propene
Concen: 1.524 ppbv
RT: 1.482 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

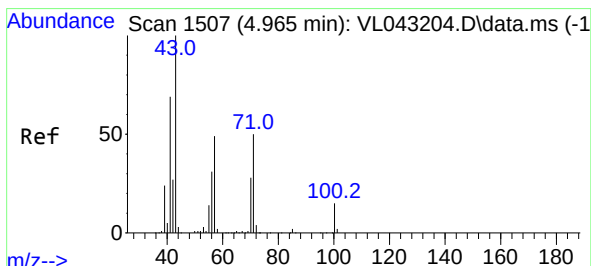
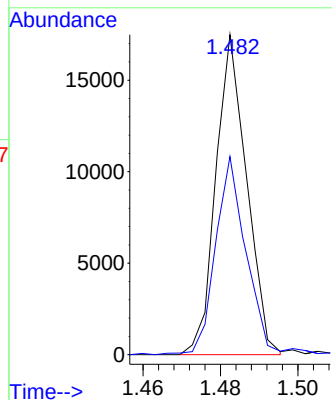
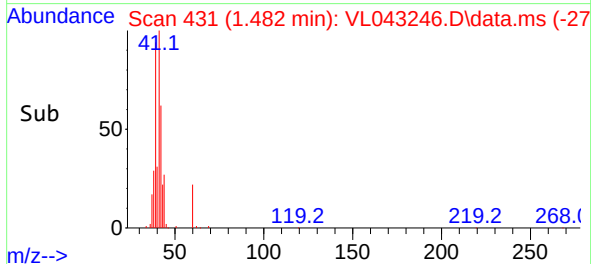
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



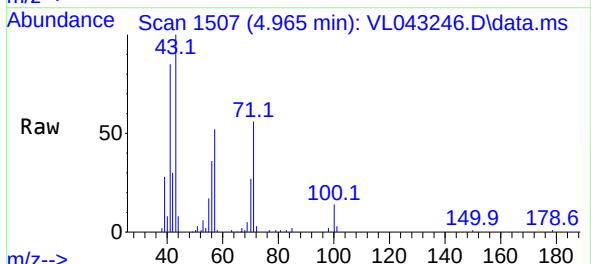
Tgt Ion: 41 Resp: 965
Ion Ratio Lower Upper
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42 0.0 3.7 5.5

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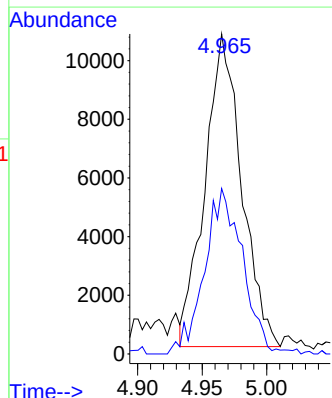
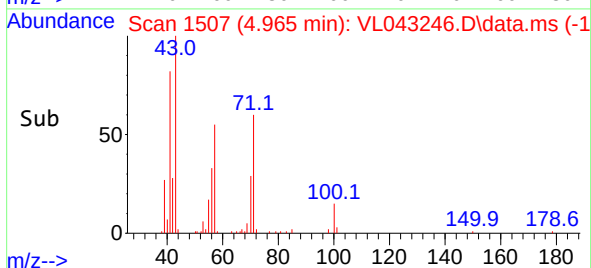
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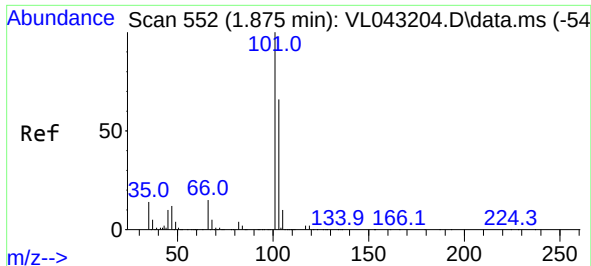


#10
Heptane
Concen: 1.118 ppbv
RT: 4.965 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55



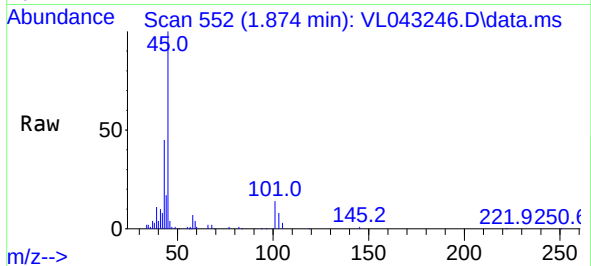
Tgt Ion: 43 Resp: 21077
Ion Ratio Lower Upper
43 100
57 55.9 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.121 ppbv m
RT: 1.874 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

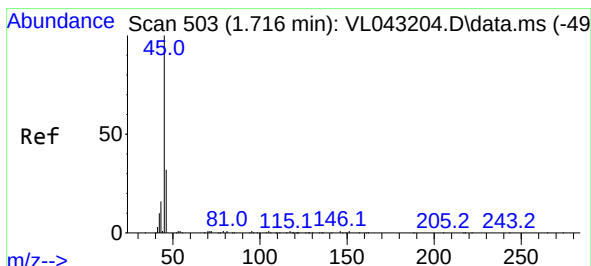
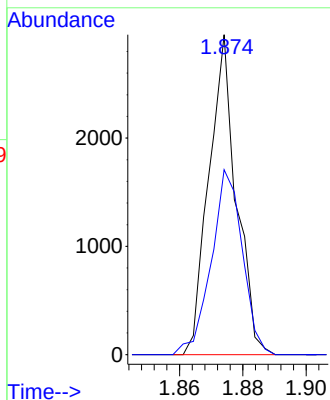
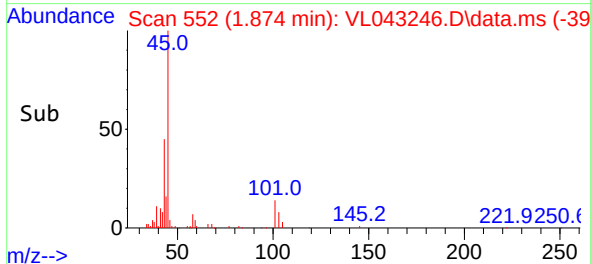
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



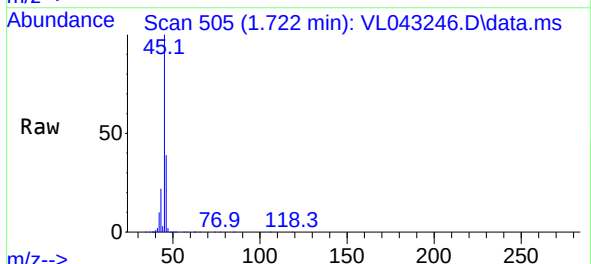
Tgt Ion:101 Resp: 1784
Ion Ratio Lower Upper
101 100
103 57.8 52.6 79.0

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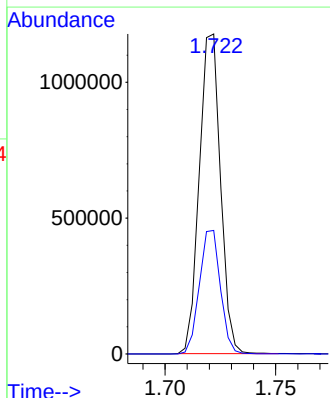
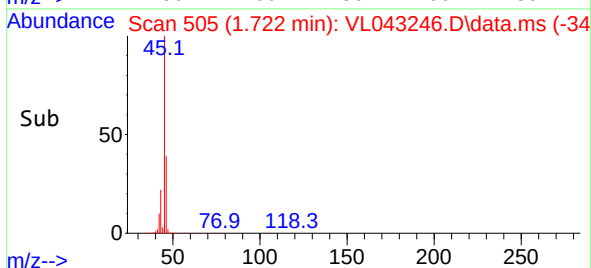
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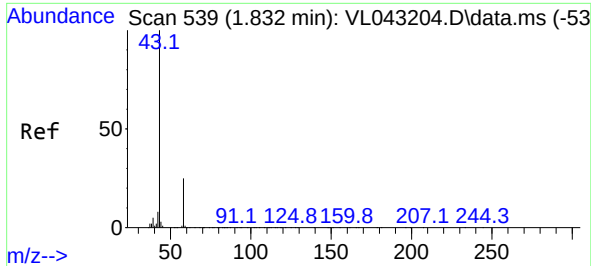


#13
Ethanol
Concen: 351.579 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55



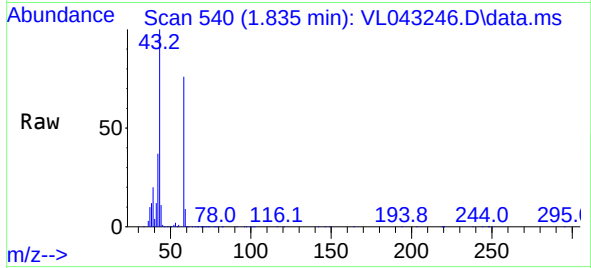
Tgt Ion: 45 Resp: 782847
Ion Ratio Lower Upper
45 100
46 38.4 15.0 59.8





#15
Acetone
Concen: 315.559 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

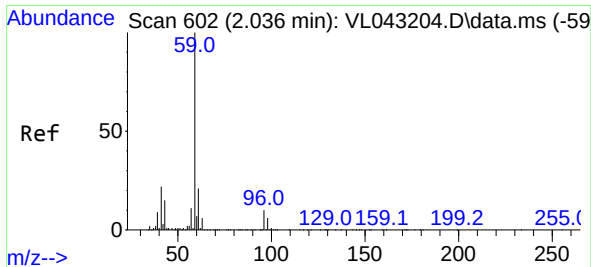
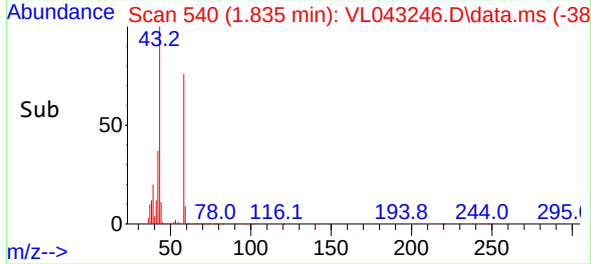
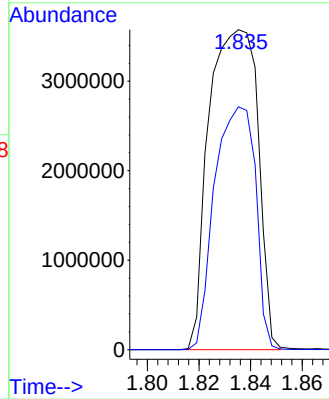
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



Tgt Ion: 43 Resp: 4713258
Ion Ratio Lower Upper
43 100
58 63.4 20.7 31.1

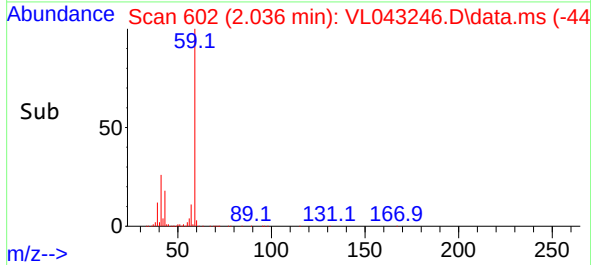
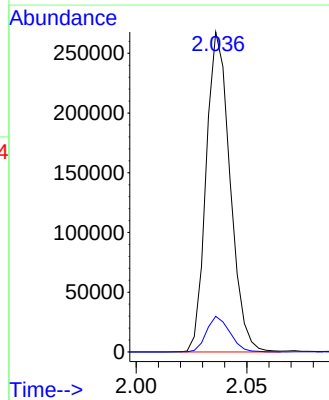
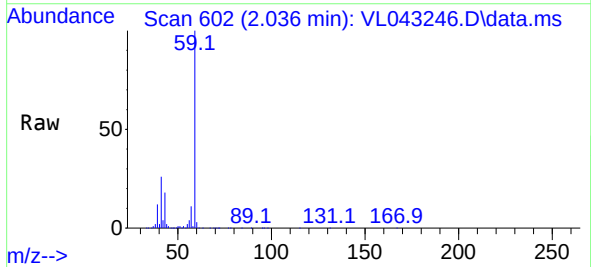
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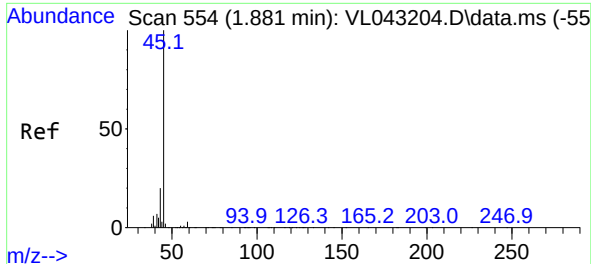
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#17
tert-Butyl alcohol
Concen: 10.271 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 59 Resp: 201360
Ion Ratio Lower Upper
59 100
57 10.9 9.0 13.4





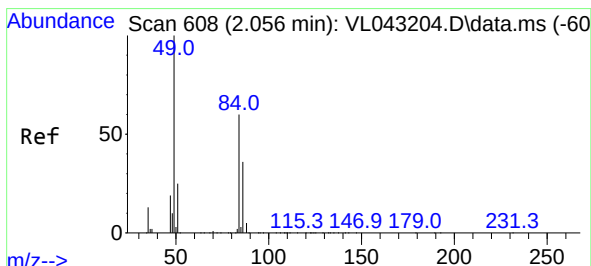
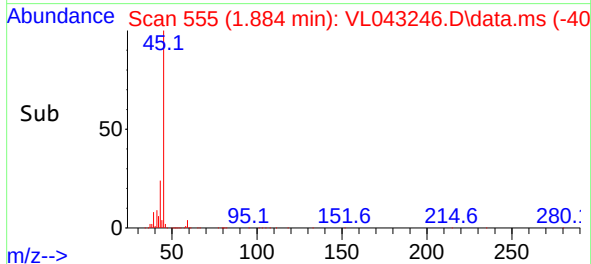
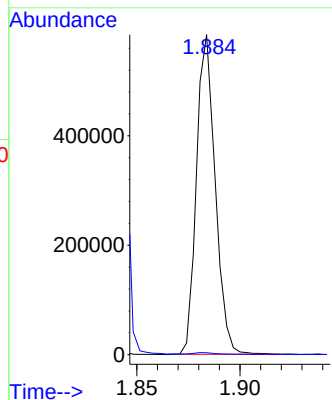
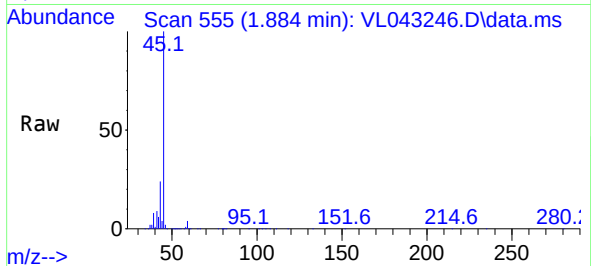
#19
Isopropyl Alcohol
Concen: 43.742 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1

Tgt Ion: 45 Resp: 36918
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9

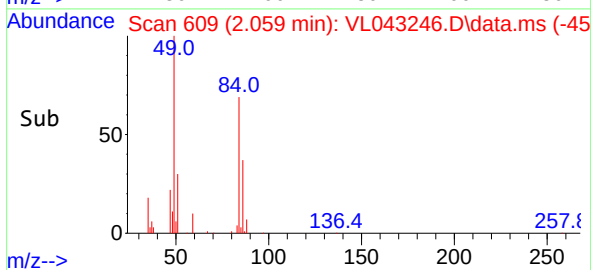
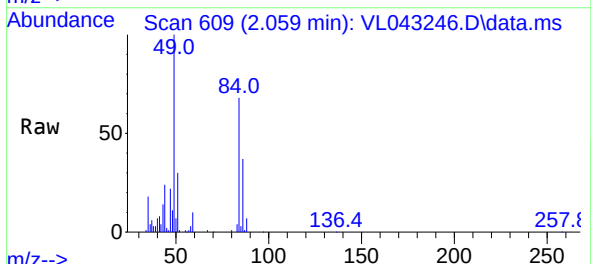
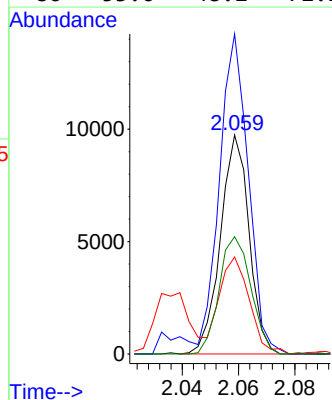
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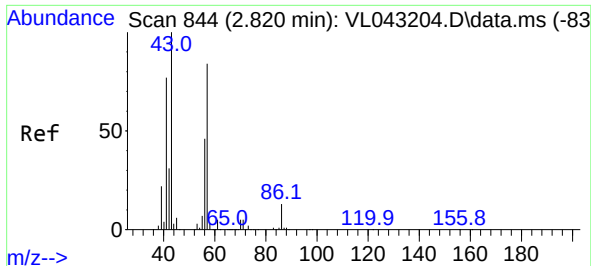
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#20
Methylene Chloride
Concen: 0.847 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

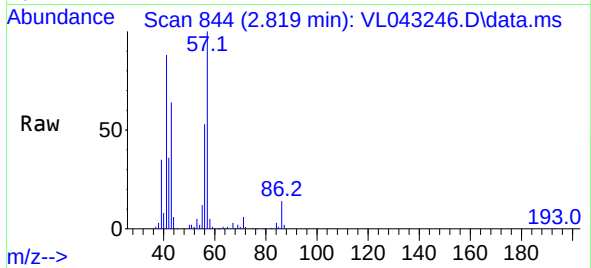
Tgt Ion: 84 Resp: 6888
Ion Ratio Lower Upper
84 100
49 144.2 132.9 199.3
51 41.8 34.8 52.2
86 53.6 48.2 72.2





#26
Hexane
Concen: 1.782 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

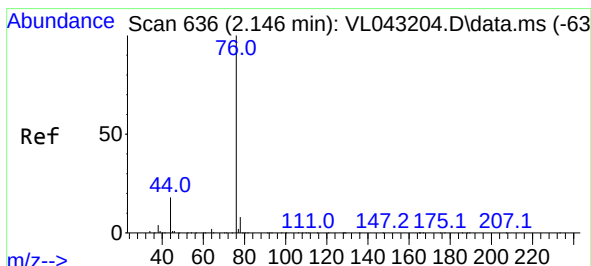
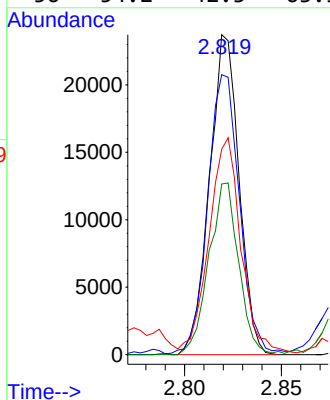
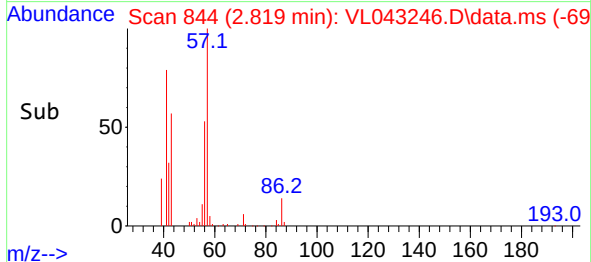
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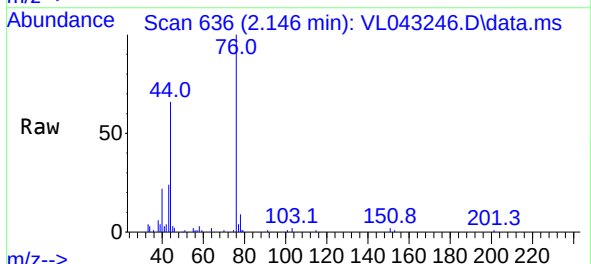
Tgt Ion: 57 Resp: 2516
Ion Ratio Lower Upper
57 100
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43 70.6 179.0 268.4
56 54.2 42.3 63.5

Manual Integrations
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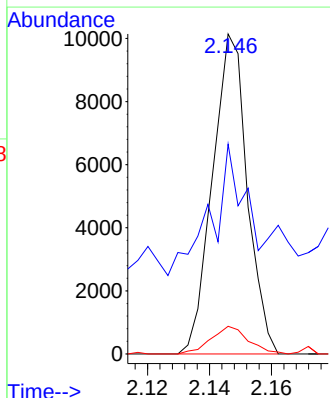
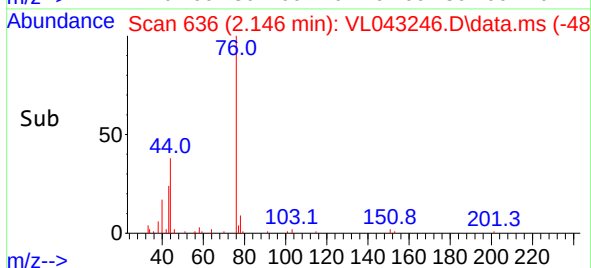
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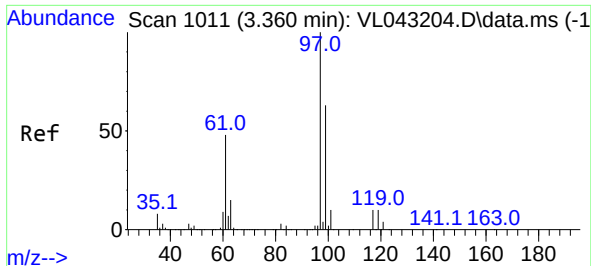


#27
Carbon Disulfide
Concen: 0.549 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55



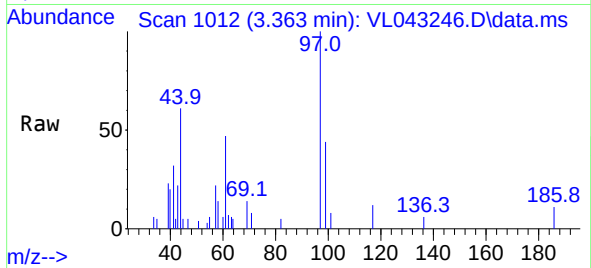
Tgt Ion: 76 Resp: 7909
Ion Ratio Lower Upper
76 100
44 0.0 16.1 24.1#
78 10.9 9.6 14.4





#32
1,1,1-Trichloroethane
Concen: 0.088 ppbv m
RT: 3.363 min Scan# 1011
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

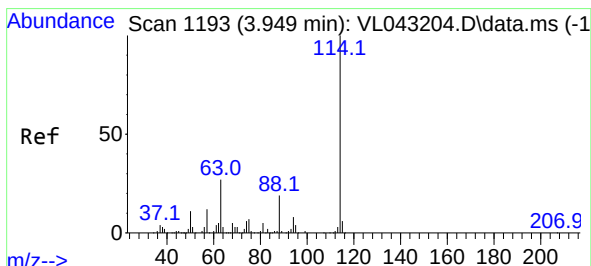
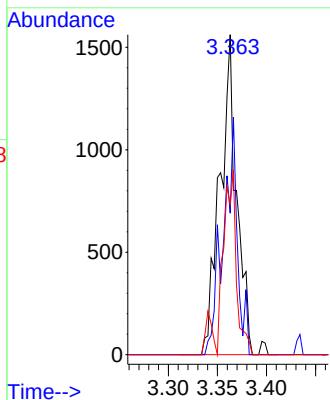
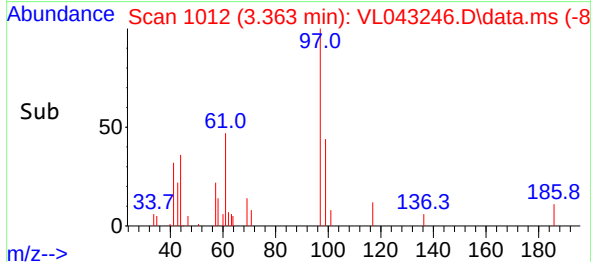
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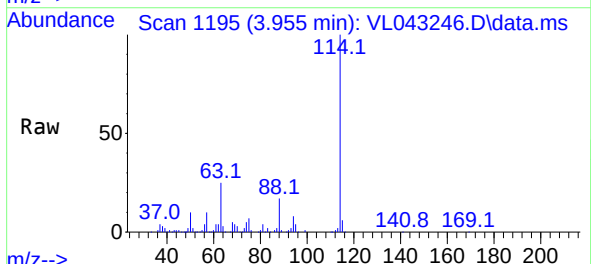
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Ion Ratio Lower Upper
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99 61.8 50.3 75.5
61 48.5 38.9 58.3

Manual Integrations
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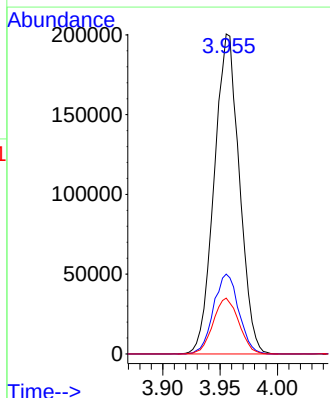
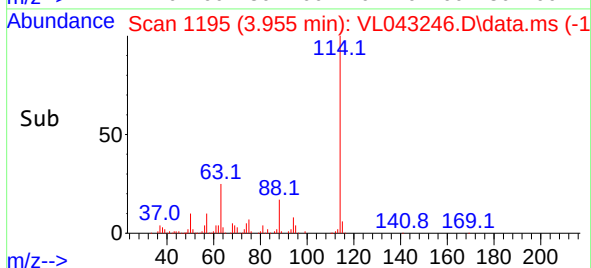
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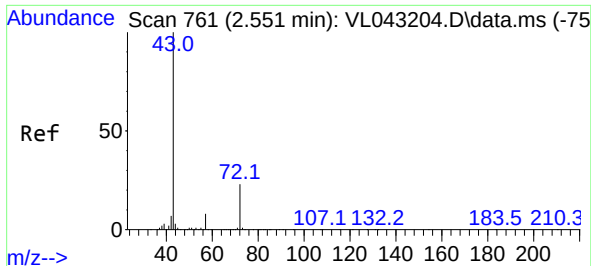


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55



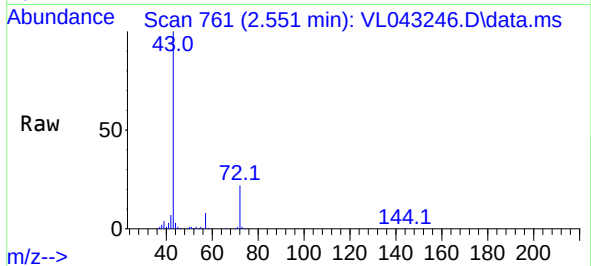
Tgt Ion:114 Resp: 305536
Ion Ratio Lower Upper
114 100
63 25.1 21.0 31.6
88 17.9 14.9 22.3





#34
2-Butanone
Concen: 9.470 ppbv
RT: 2.551 min Scan# 70
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

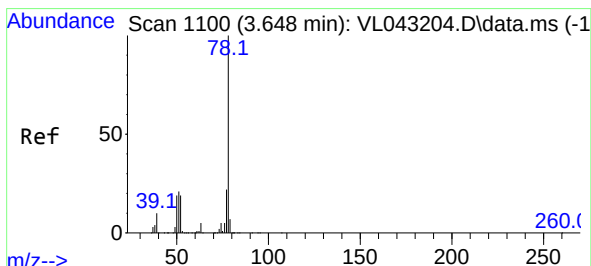
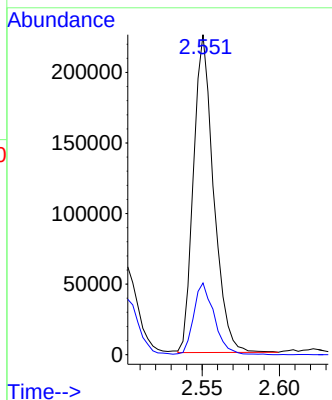
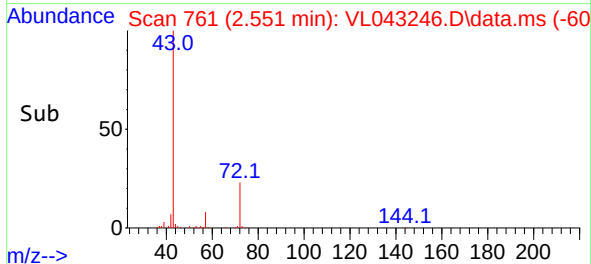
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



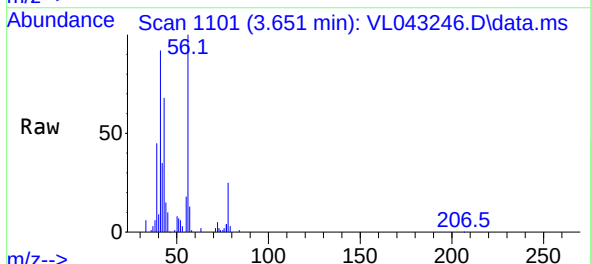
Tgt Ion: 43 Resp: 204250
Ion Ratio Lower Upper
43 100
72 23.0 18.1 27.1

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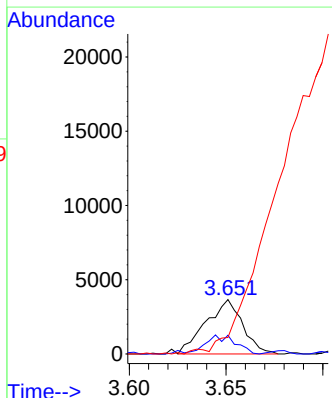
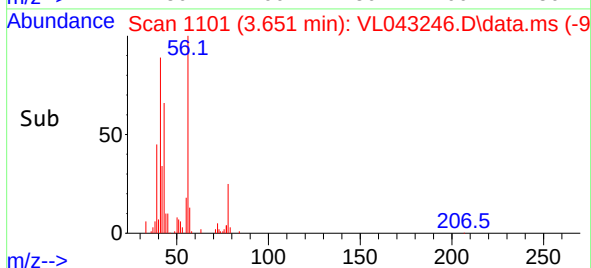
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

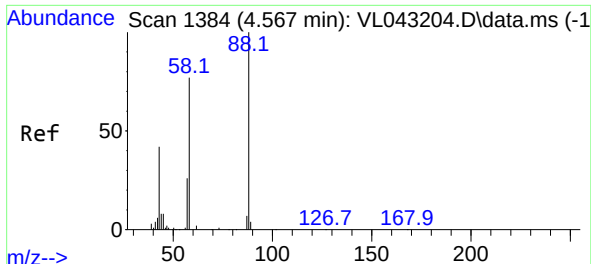


#36
Benzene
Concen: 0.165 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55



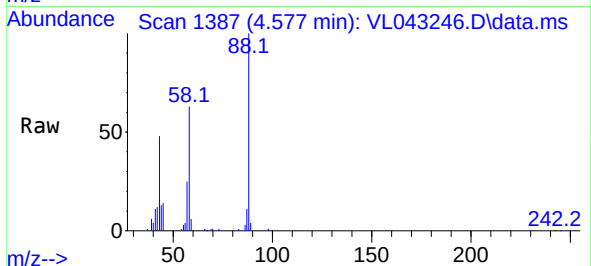
Tgt Ion: 78 Resp: 4837
Ion Ratio Lower Upper
78 100
77 28.3 17.5 26.3#
50 27.9 15.5 23.3#





#40
1,4-Dioxane
Concen: 5.793 ppbv
RT: 4.577 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

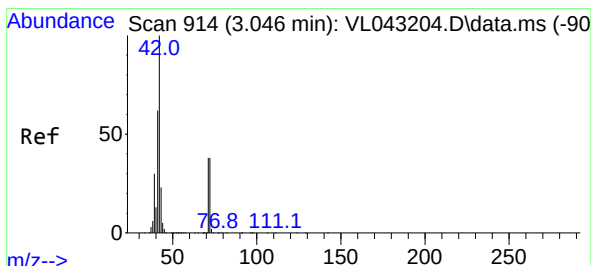
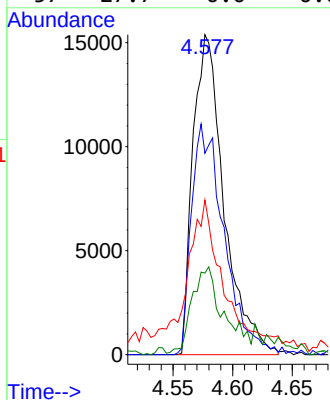
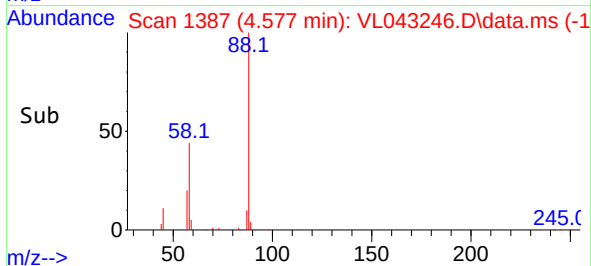
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



Tgt Ion: 88 Resp: 2789
Ion Ratio Lower Upper
88 100
58 76.0 63.0 94.6
43 55.3 32.5 48.7
57 27.7 0.0 0.0#

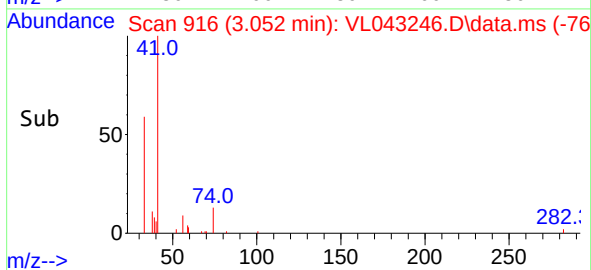
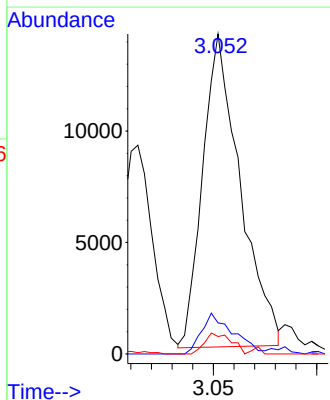
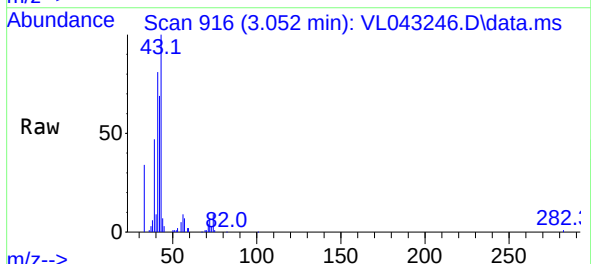
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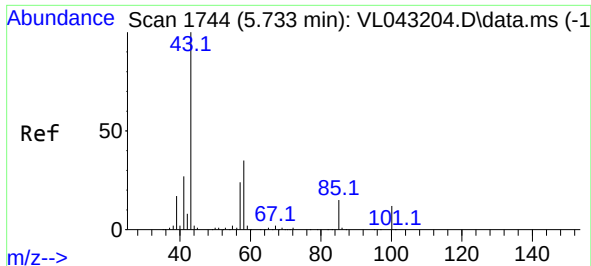
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#41
Tetrahydrofuran
Concen: 1.489 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion: 42 Resp: 17731
Ion Ratio Lower Upper
42 100
72 12.2 30.6 46.0#
71 5.2 30.5 45.7#





#50

4-Methyl-2-Pentanone

Concen: 3.571 ppbv m

RT: 5.739 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL043246.D

Acq: 19 Nov 2025 18:55

Instrument :

MSVOA_L

ClientSampleId :

16-SG-1

Tgt Ion: 43 Resp: 108494

Ion Ratio Lower Upper

43 100

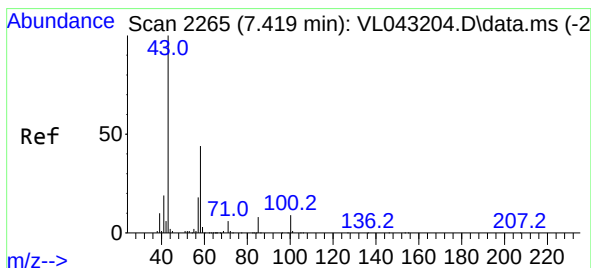
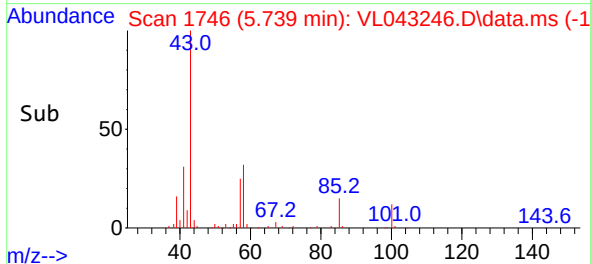
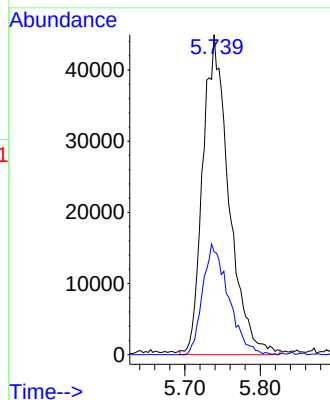
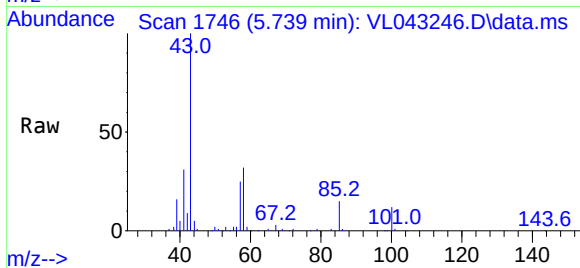
58 34.1 28.4 42.6

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Reviewed By :Semsettin Yesilyurt 11/21/2025

Supervised By :Mahesh Dadoda 11/21/2025



#51

2-Hexanone

Concen: 1.205 ppbv m

RT: 7.425 min Scan# 2267

Delta R.T. 0.006 min

Lab File: VL043246.D

Acq: 19 Nov 2025 18:55

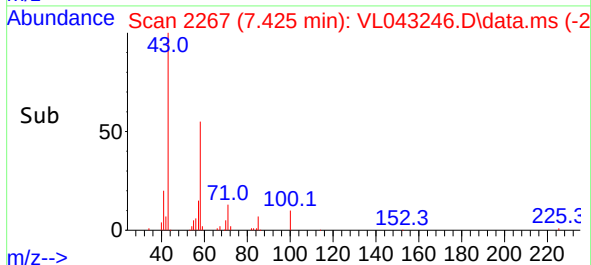
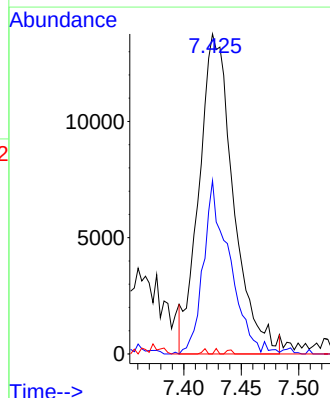
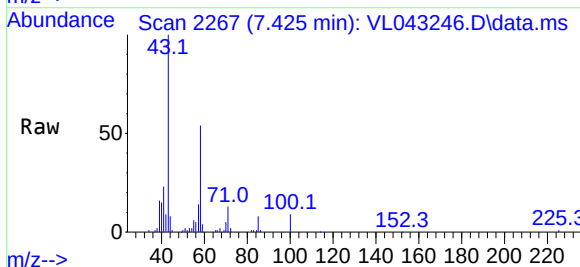
Tgt Ion: 43 Resp: 28430

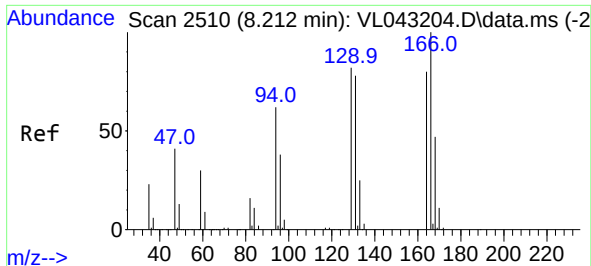
Ion Ratio Lower Upper

43 100

58 42.4 38.4 57.6

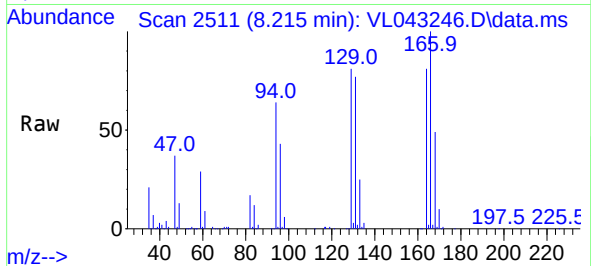
98 0.4 0.0 0.0#





#52
Tetrachloroethene
Concen: 5.215 ppbv
RT: 8.215 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

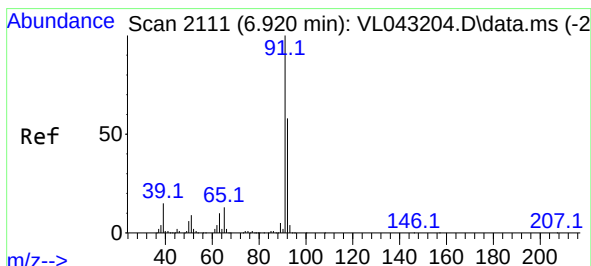
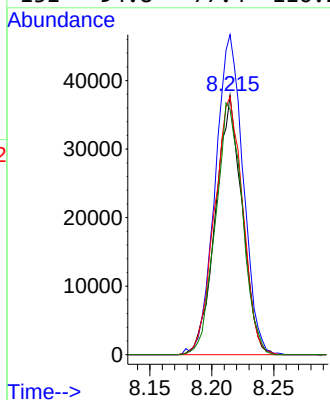
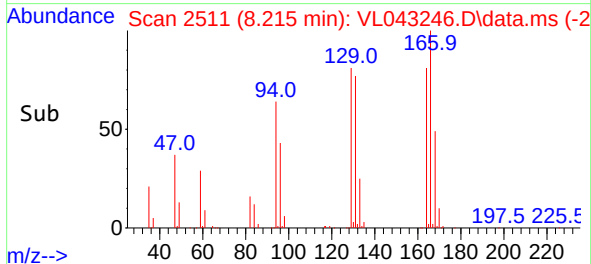
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



Tgt Ion:164 Resp: 5675
Ion Ratio Lower Upper
164 100
166 123.5 99.4 149.2
129 99.6 81.8 122.8
131 94.8 77.4 116.2

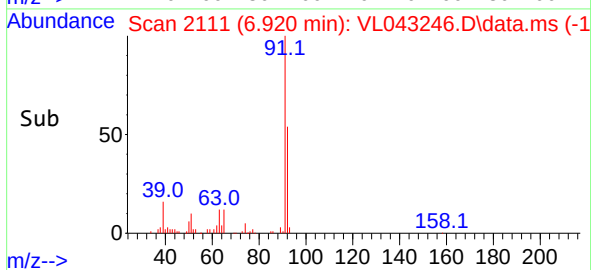
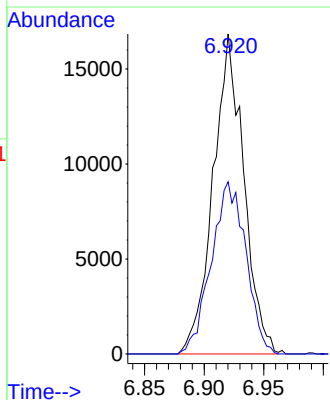
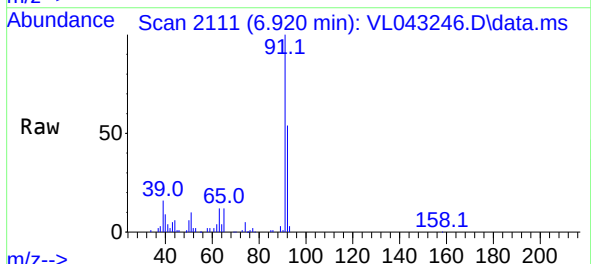
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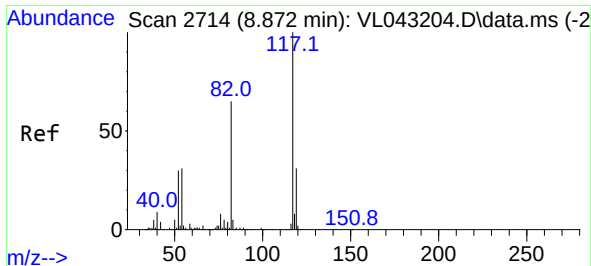
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#53
Toluene
Concen: 0.870 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

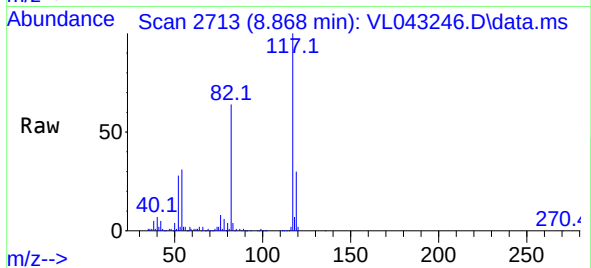
Tgt Ion: 91 Resp: 30132
Ion Ratio Lower Upper
91 100
92 60.7 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.868 min Scan# 2115
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

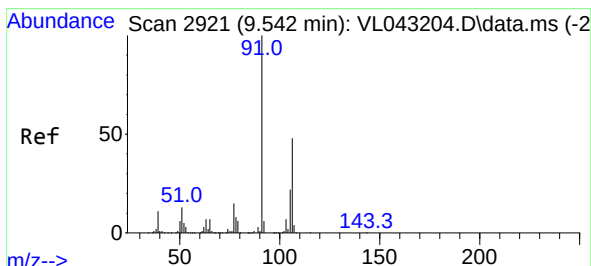
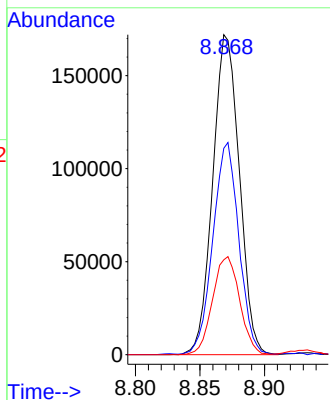
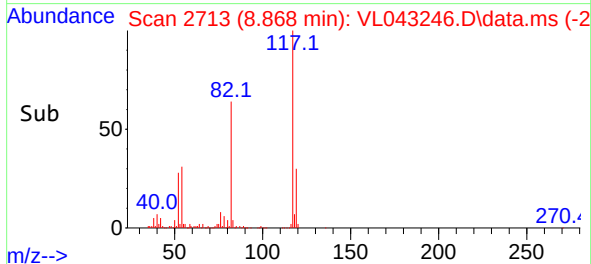
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



Tgt Ion: 117 Resp: 246749
Ion Ratio Lower Upper
117 100
82 65.0 56.1 84.1
119 31.3 25.0 37.6

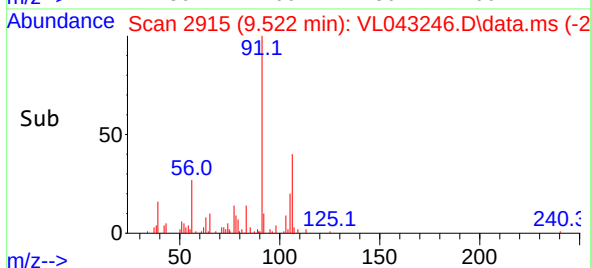
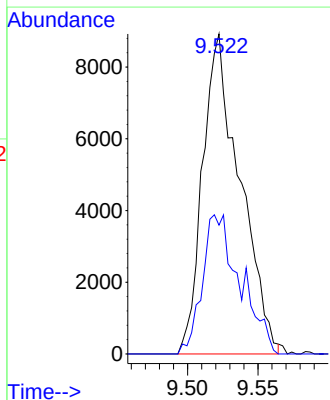
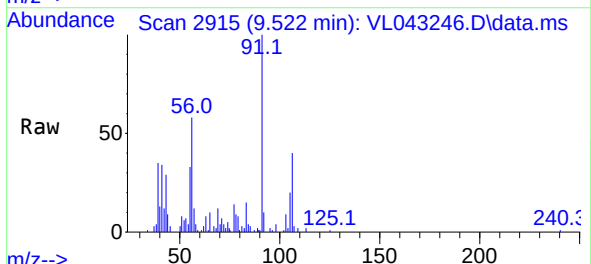
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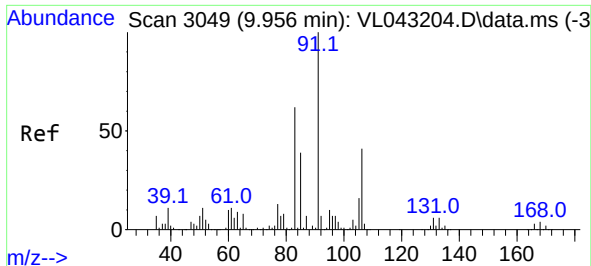
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#59
m/p-Xylene
Concen: 0.432 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.020 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

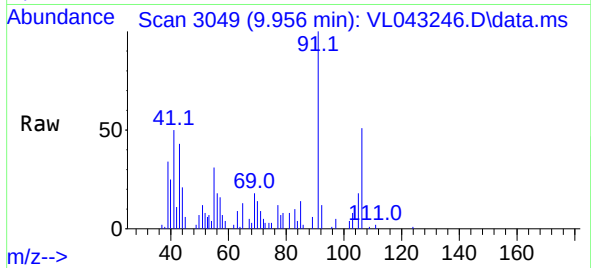
Tgt Ion: 91 Resp: 16446
Ion Ratio Lower Upper
91 100
106 44.2 36.1 54.1





#60
o-Xylene
Concen: 0.156 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

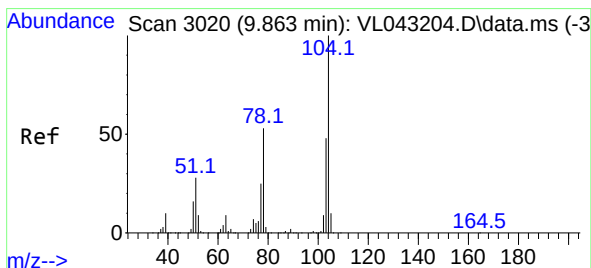
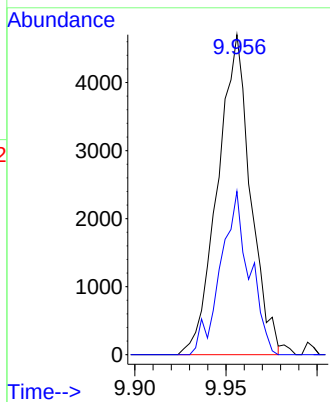
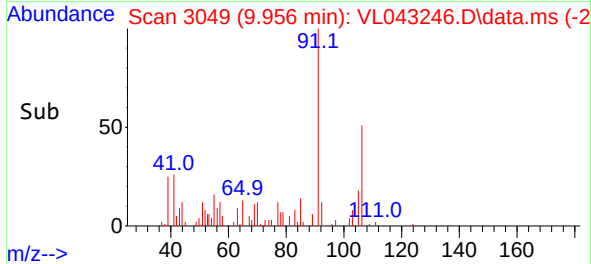
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



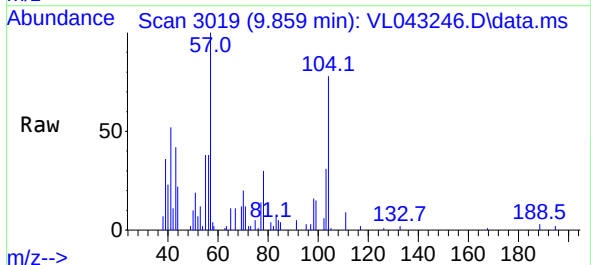
Tgt Ion: 91 Resp: 591
Ion Ratio Lower Upper
91 100
106 44.9 20.9 62.8

Manual Integrations
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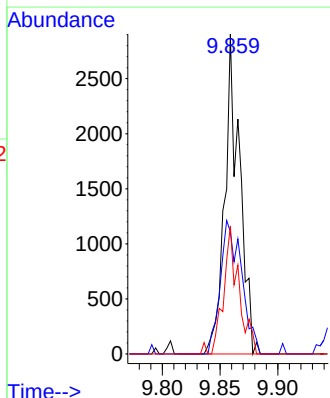
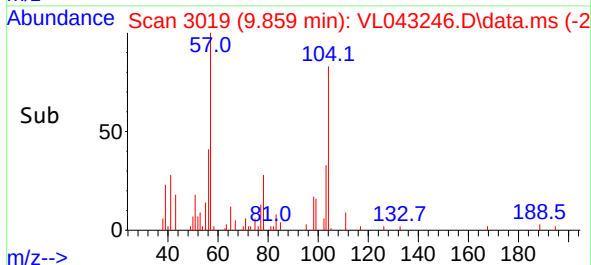
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

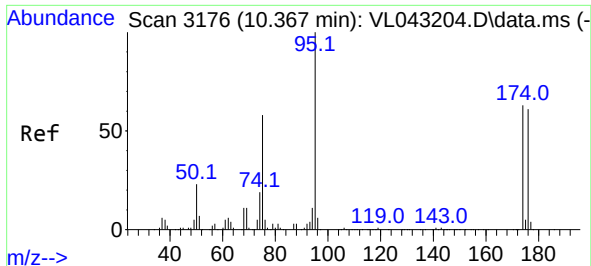


#61
Styrene
Concen: 0.157 ppbv m
RT: 9.859 min Scan# 3019
Delta R.T. -0.004 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55



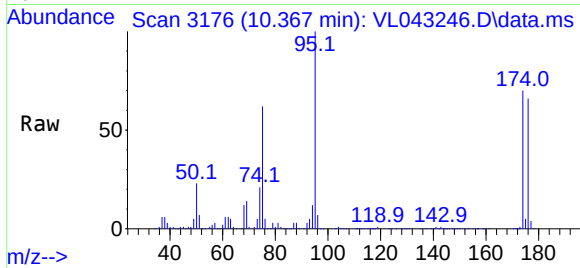
Tgt Ion:104 Resp: 2621
Ion Ratio Lower Upper
104 100
78 59.1 42.1 63.1
103 41.4 37.2 55.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

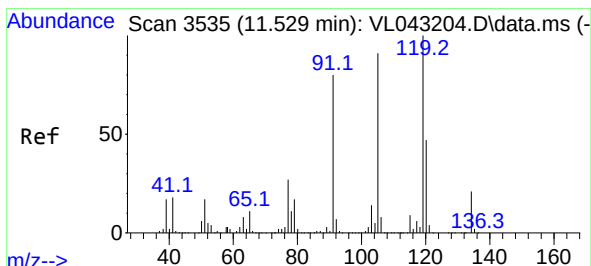
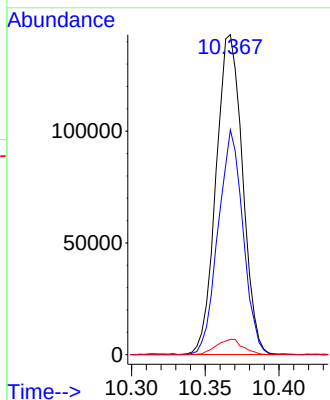
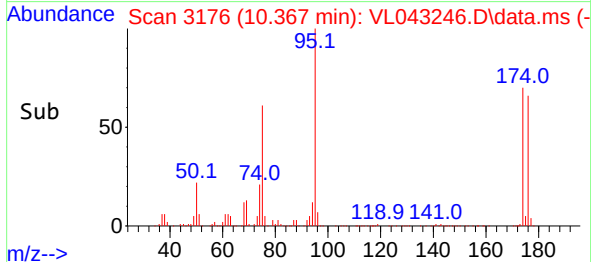
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1



Tgt Ion: 95 Resp: 178880
Ion Ratio Lower Upper
95 100
174 66.2 50.2 75.2
175 4.8 4.1 6.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.110 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.000 min
Lab File: VL043246.D
Acq: 19 Nov 2025 18:55

Tgt Ion:105 Resp: 4674
Ion Ratio Lower Upper
105 100
120 58.9 41.7 62.5
91 17.5 70.0 105.0#
77 20.0 23.8 35.8#

