

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043236.D
 Acq On : 19 Nov 2025 13:17
 Operator : SY/MD
 Sample : Q3626-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 9A-SG-2

Manual Integrations
 APPROVED

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

Quant Time: Nov 20 00:04:26 2025

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

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

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	2.784	49	105026	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	292365	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	227868	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	164621	9.856	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	3866	0.261	ppbv	98
3) Chlorodifluoromethane	1.476	51	1653m	0.113	ppbv	
9) Propene	1.486	41	5369	0.868	ppbv #	1
10) Heptane	4.978	43	2280m	0.124	ppbv	
11) Trichlorofluoromethane	1.878	101	5081	0.354	ppbv	91
13) Ethanol	1.719	45	12902	5.931	ppbv	96
15) Acetone	1.836	43	116398	7.977	ppbv	98
17) tert-Butyl alcohol	2.039	59	9149m	0.478	ppbv	
19) Isopropyl Alcohol	1.884	45	51704	6.271	ppbv #	73
20) Methylene Chloride	2.062	84	8662	1.334	ppbv	92
26) Hexane	2.826	57	10226	0.741	ppbv #	44
27) Carbon Disulfide	2.150	76	5334	0.379	ppbv #	1
29) Chloroform	2.845	83	39446	2.011	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	892m	0.043	ppbv	
34) 2-Butanone	2.557	43	5651	0.274	ppbv	95
35) Carbon Tetrachloride	3.752	117	738m	0.033	ppbv	
36) Benzene	3.655	78	4112	0.147	ppbv	97
38) Trichloroethene	4.548	130	1447m	0.132	ppbv	
52) Tetrachloroethene	8.218	164	7582	0.728	ppbv	89
53) Toluene	6.927	91	5176m	0.156	ppbv	

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

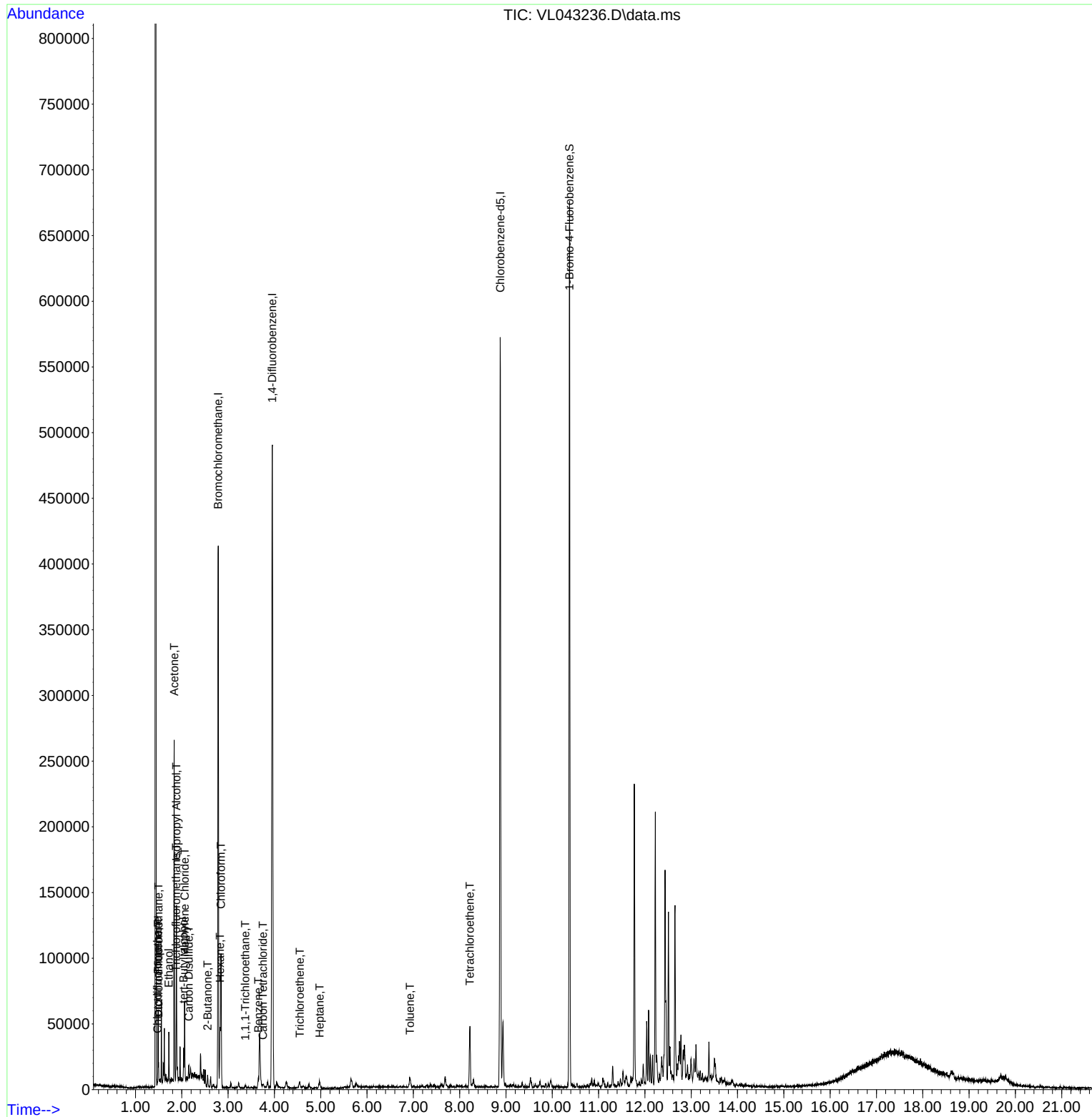
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
Data File : VL043236.D
Acq On : 19 Nov 2025 13:17
Operator : SY/MD
Sample : Q3626-02 2X
Misc : 400mL/MSVOA_L
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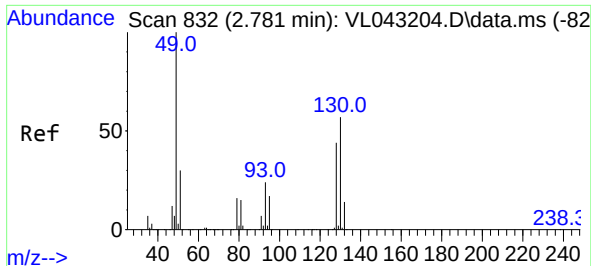
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Quant Time: Nov 20 00:04:26 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

Manual Integrations
APPROVED

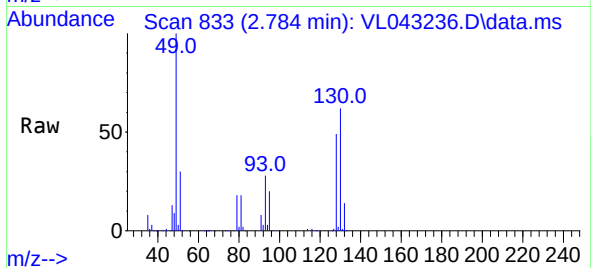
Reviewed By : Semsettin Yesilyurt 11/21/2025
Supervised By : Mahesh Dadoda 11/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

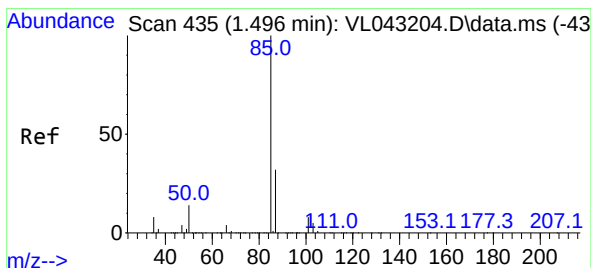
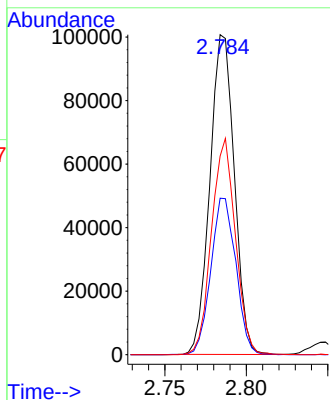
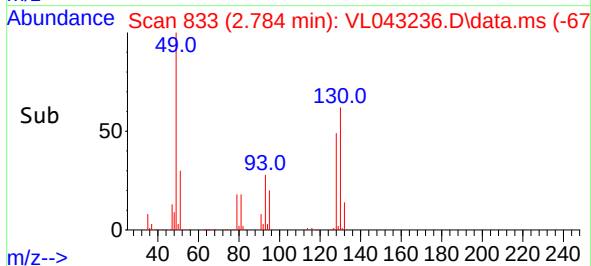
Instrument :
MSVOA_L
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9A-SG-2



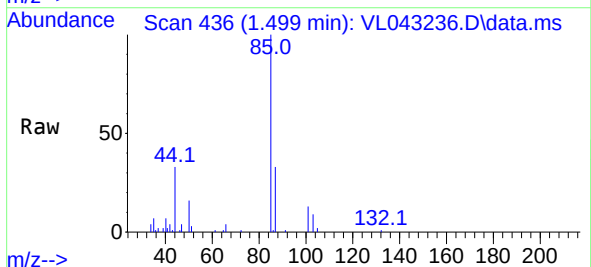
Tgt Ion: 49 Resp: 105020
Ion Ratio Lower Upper
49 100
128 50.2 23.0 69.0
130 66.3 29.9 89.7

Manual Integrations
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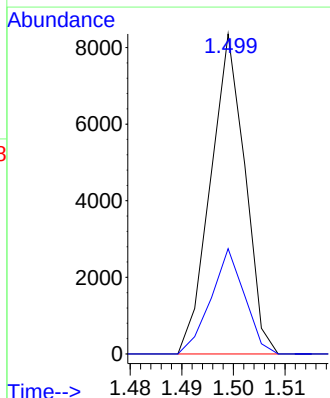
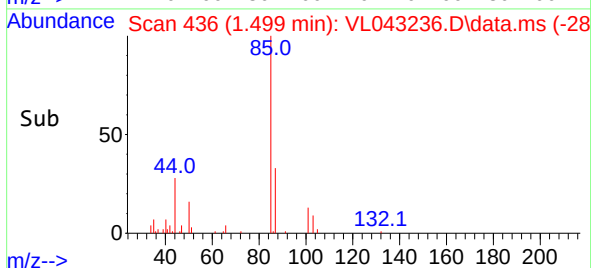
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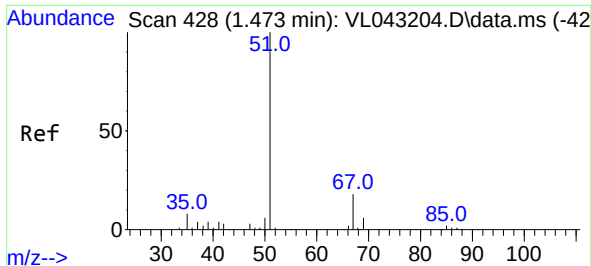


#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



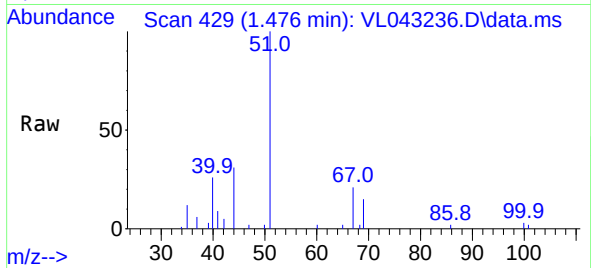
Tgt Ion: 85 Resp: 3866
Ion Ratio Lower Upper
85 100
87 32.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.113 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

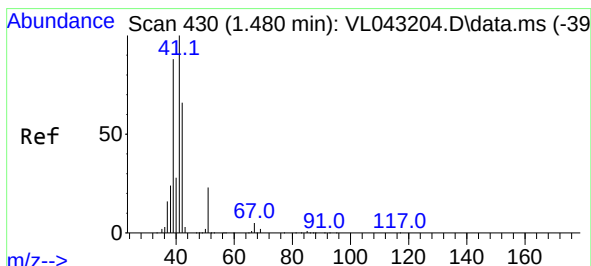
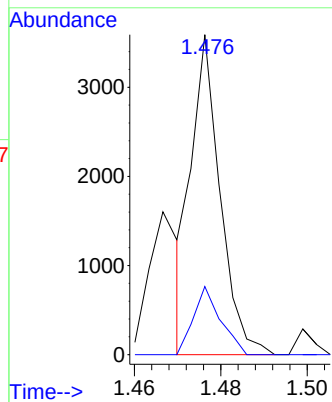
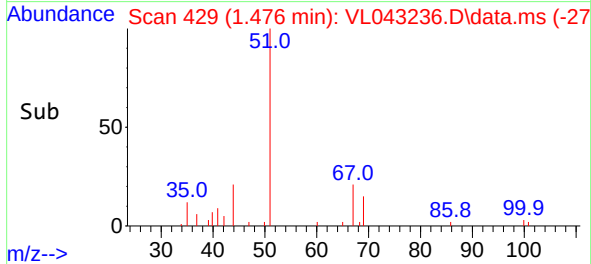
Instrument :
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ClientSampleId :
9A-SG-2



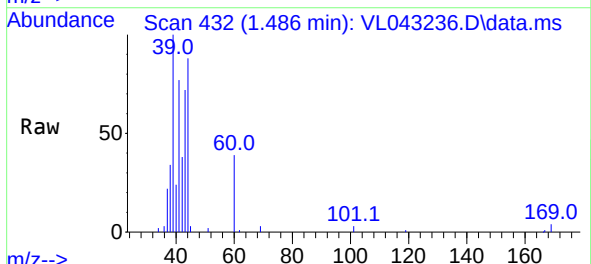
Tgt Ion: 51 Resp: 165
Ion Ratio Lower Upper
51 100
67 20.2 14.9 22.3

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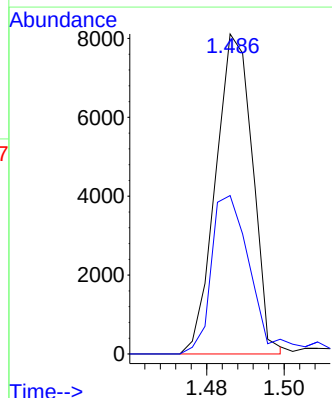
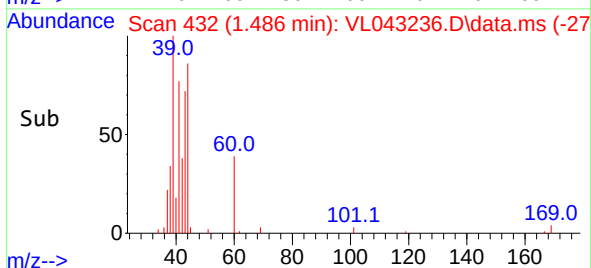
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

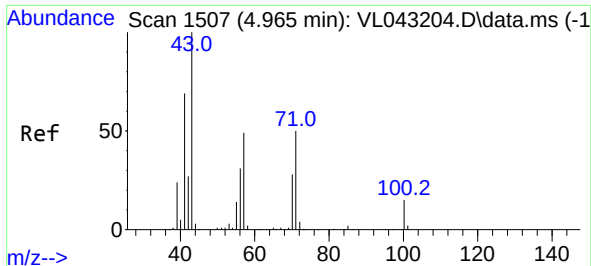


#9
Propene
Concen: 0.868 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



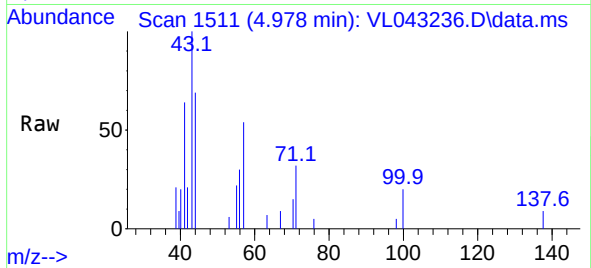
Tgt Ion: 41 Resp: 5369
Ion Ratio Lower Upper
41 100
42 55.0 3.7 5.5#





#10
Heptane
Concen: 0.124 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

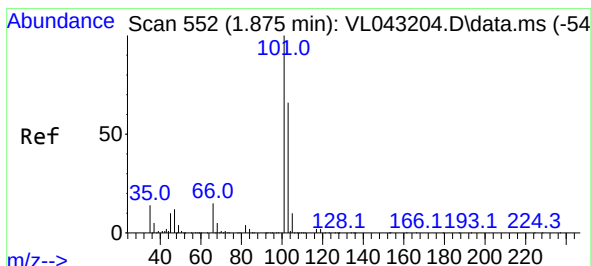
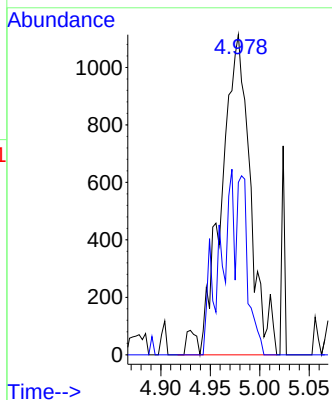
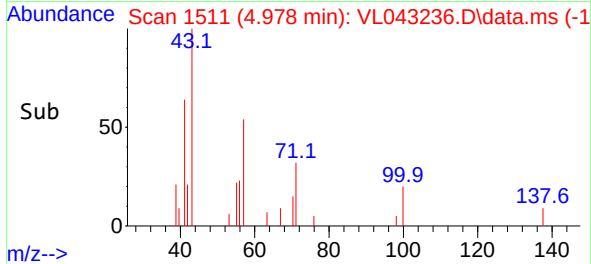
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2



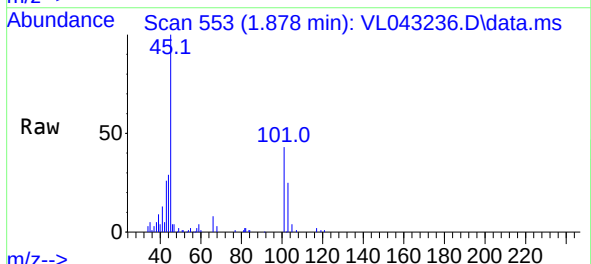
Tgt Ion: 43 Resp: 2280
Ion Ratio Lower Upper
43 100
57 0.0 39.7 59.5

Manual Integrations
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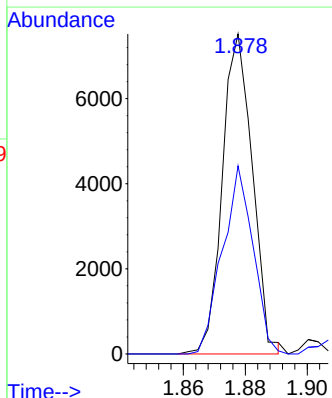
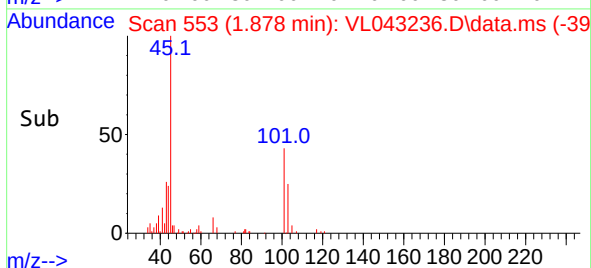
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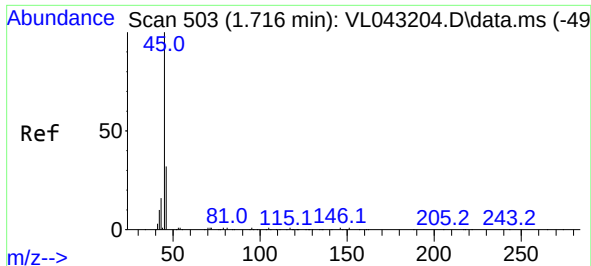


#11
Trichlorofluoromethane
Concen: 0.354 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



Tgt Ion:101 Resp: 5081
Ion Ratio Lower Upper
101 100
103 58.7 52.6 79.0





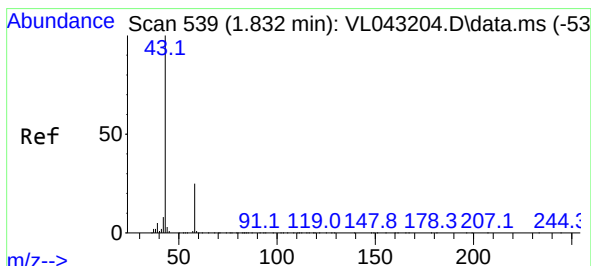
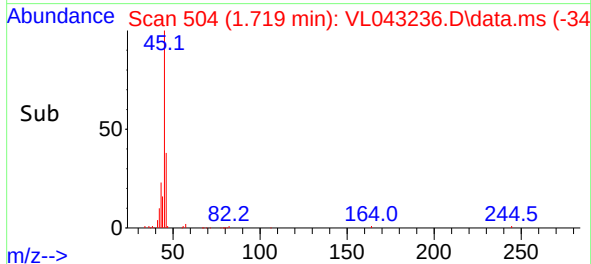
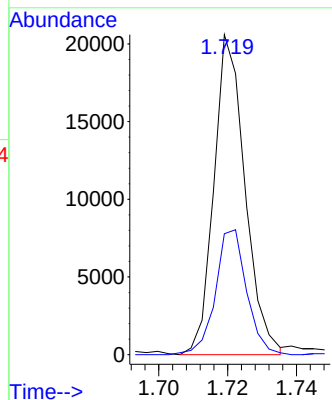
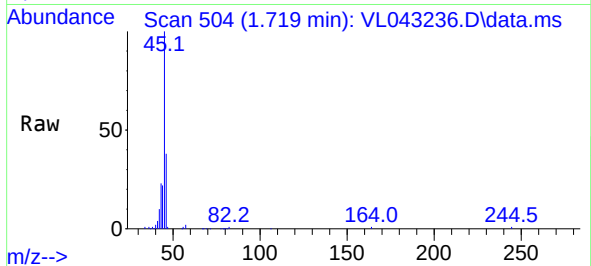
#13
Ethanol
Concen: 5.931 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_1
ClientSampleId :
9A-SG-2

Tgt Ion: 45 Resp: 12902
Ion Ratio Lower Upper
45 100
46 40.0 15.0 59.8

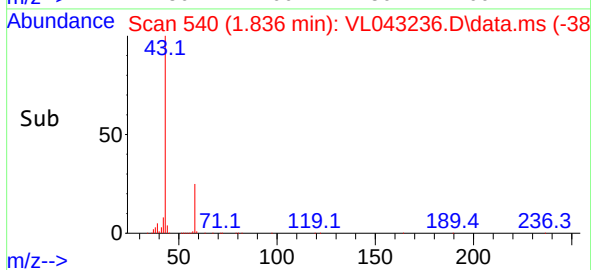
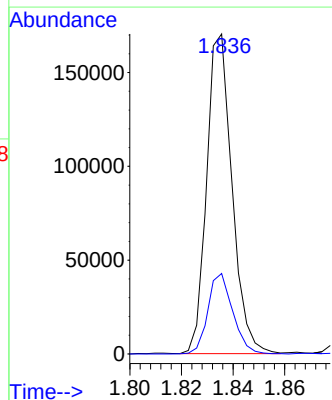
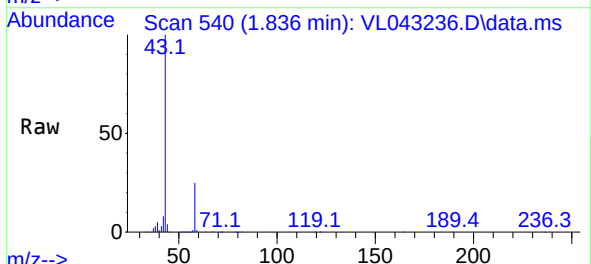
Manual Integrations
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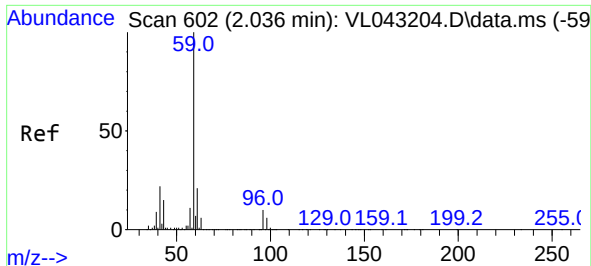
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Supervised By :Mahesh Dadoda 11/21/2025



#15
Acetone
Concen: 7.977 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

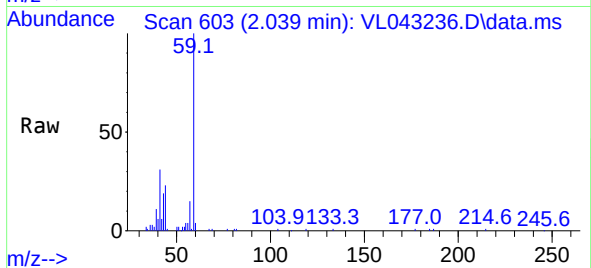
Tgt Ion: 43 Resp: 116398
Ion Ratio Lower Upper
43 100
58 24.8 20.7 31.1





#17
tert-Butyl alcohol
Concen: 0.478 ppbv m
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

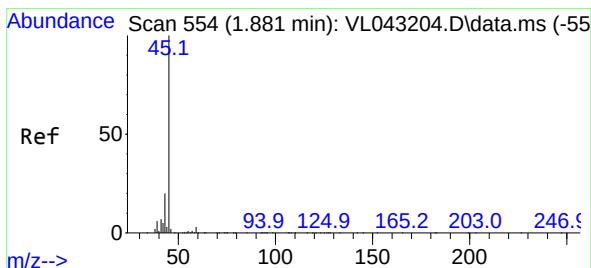
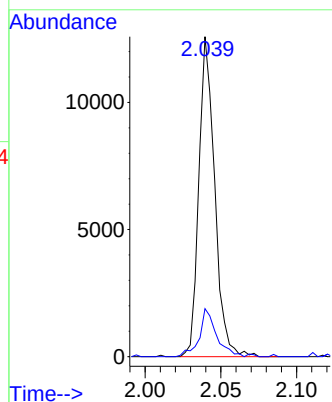
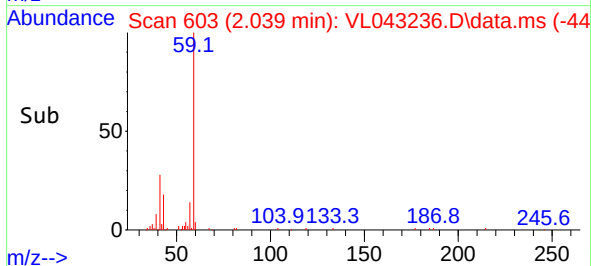
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2



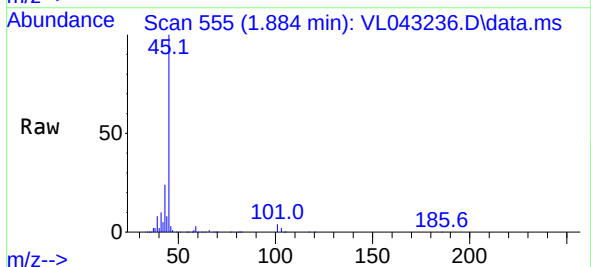
Tgt Ion: 59 Resp: 9149
Ion Ratio Lower Upper
59 100
57 2.0 9.0 13.4

Manual Integrations
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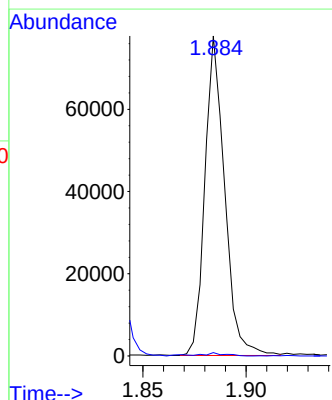
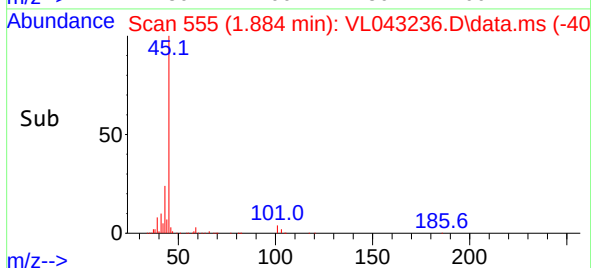
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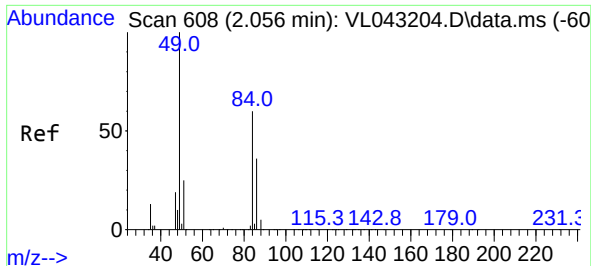


#19
Isopropyl Alcohol
Concen: 6.271 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



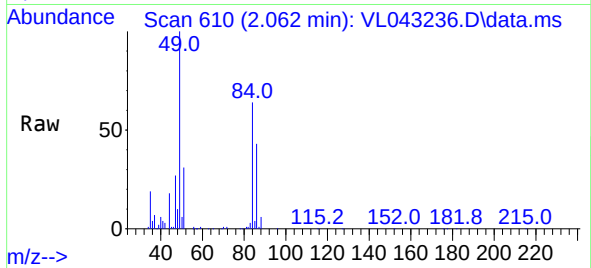
Tgt Ion: 45 Resp: 51704
Ion Ratio Lower Upper
45 100
58 55.7 31.3 46.9





#20
Methylene Chloride
Concen: 1.334 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

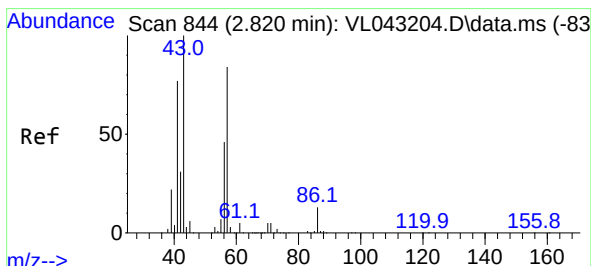
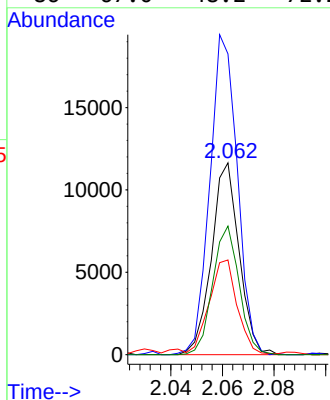
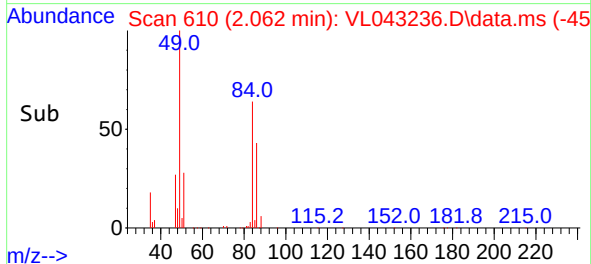
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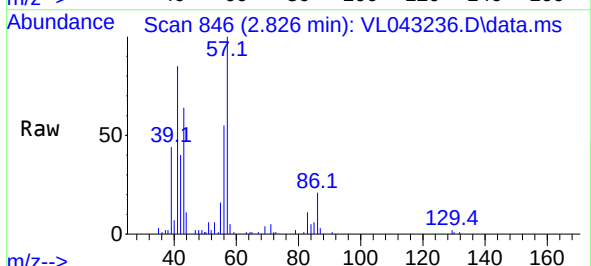
Tgt Ion: 84 Resp: 866
Ion Ratio Lower Upper
84 100
49 156.2 132.9 199.3
51 48.8 34.8 52.2
86 67.0 48.2 72.2

Manual Integrations
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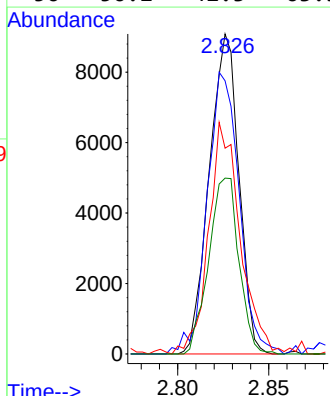
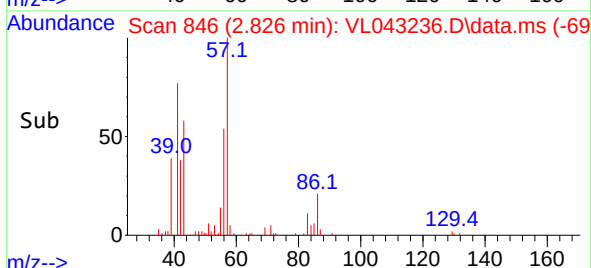
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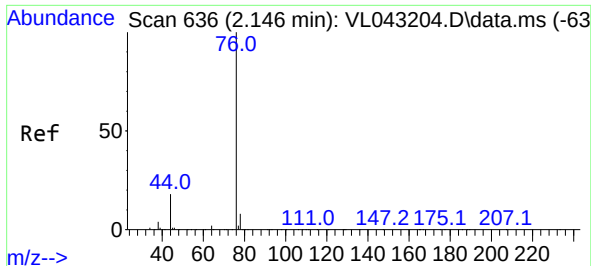


#26
Hexane
Concen: 0.741 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



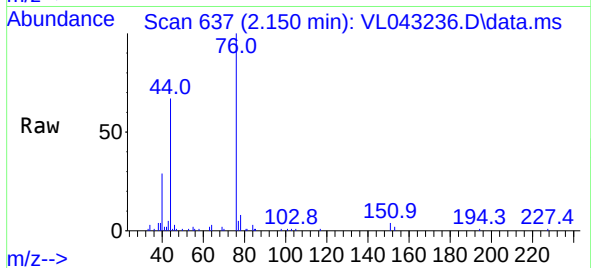
Tgt Ion: 57 Resp: 10226
Ion Ratio Lower Upper
57 100
41 98.2 74.6 111.8
43 79.0 179.0 268.4#
56 56.2 42.3 63.5





#27
Carbon Disulfide
Concen: 0.379 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

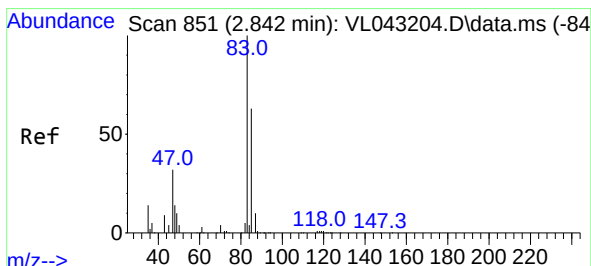
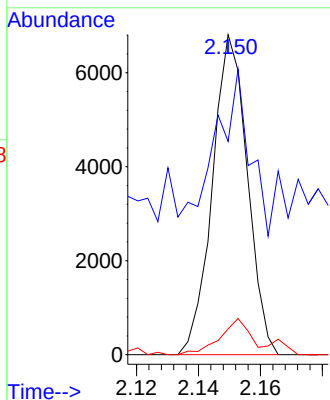
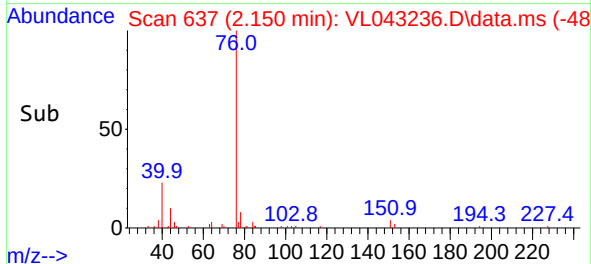
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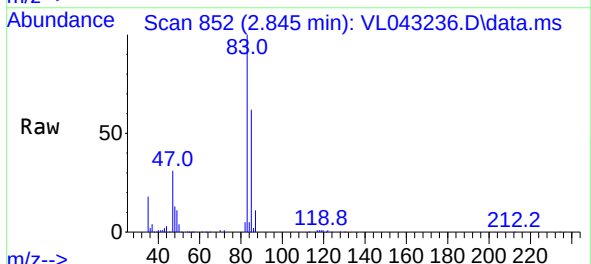
Tgt Ion: 76 Resp: 5334
Ion Ratio Lower Upper
76 100
44 111.0 16.1 24.1
78 12.2 9.6 14.4

Manual Integrations
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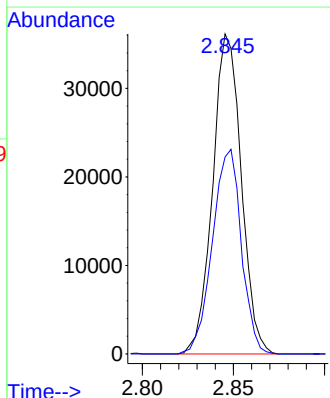
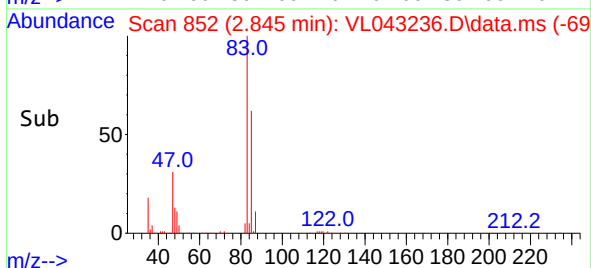
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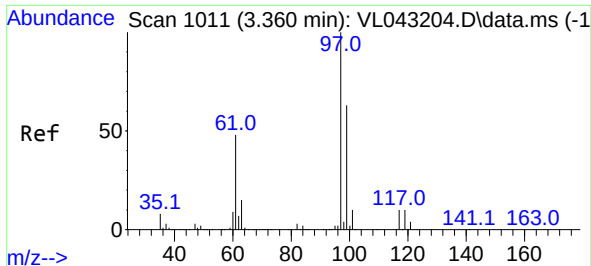


#29
Chloroform
Concen: 2.011 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



Tgt Ion: 83 Resp: 39446
Ion Ratio Lower Upper
83 100
85 61.5 50.5 75.7





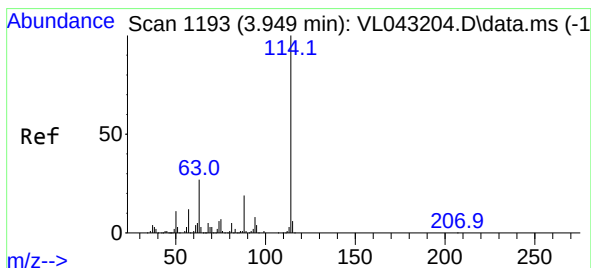
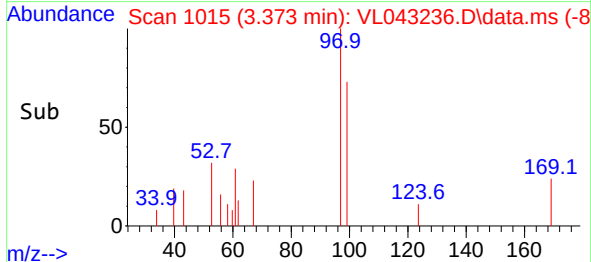
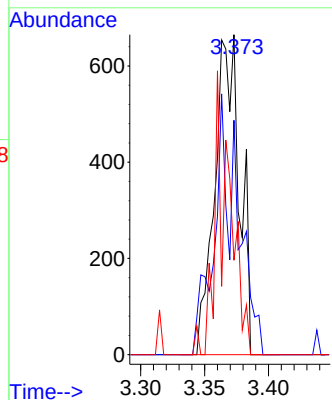
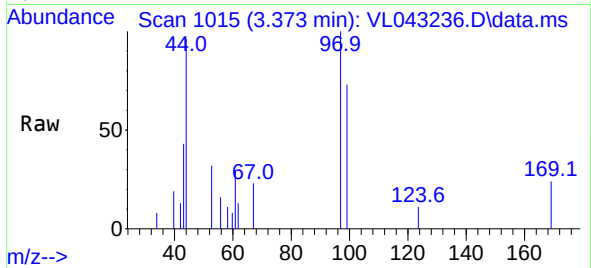
#32
1,1,1-Trichloroethane
Concen: 0.043 ppbv m
RT: 3.373 min Scan# 1011
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2

Tgt Ion: 97 Resp: 892
Ion Ratio Lower Upper
97 100
99 76.9 50.3 75.5
61 54.3 38.9 58.3

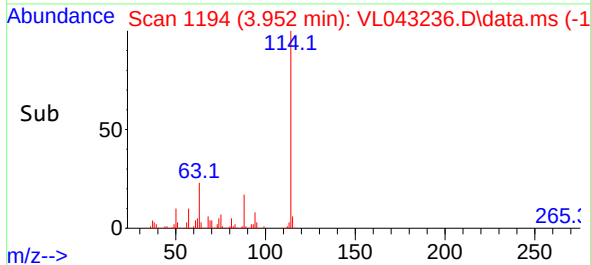
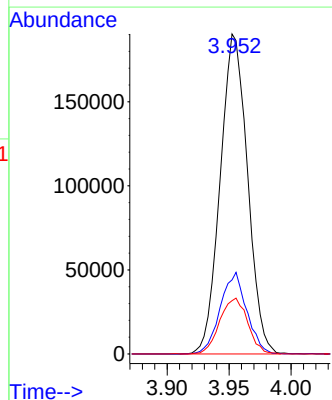
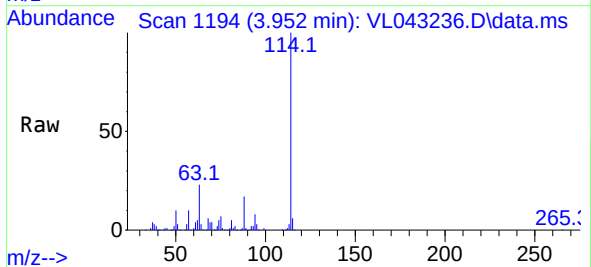
Manual Integrations
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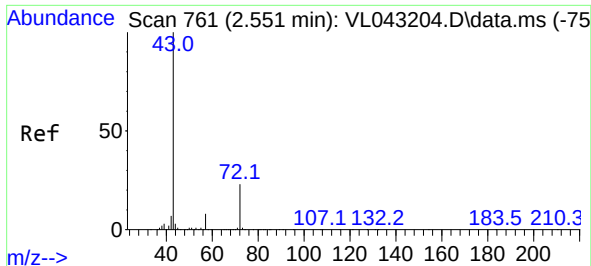
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

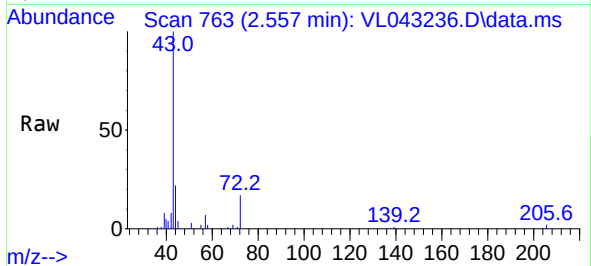
Tgt Ion:114 Resp: 292365
Ion Ratio Lower Upper
114 100
63 24.8 21.0 31.6
88 17.9 14.9 22.3





#34
2-Butanone
Concen: 0.274 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

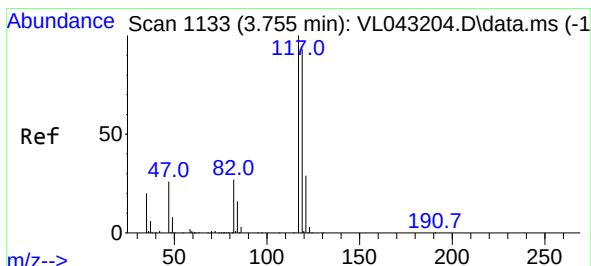
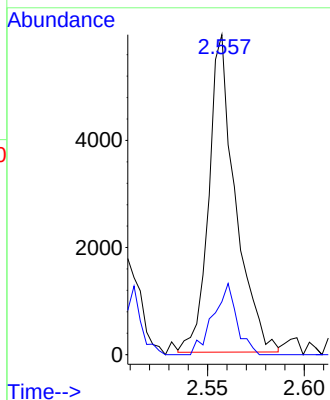
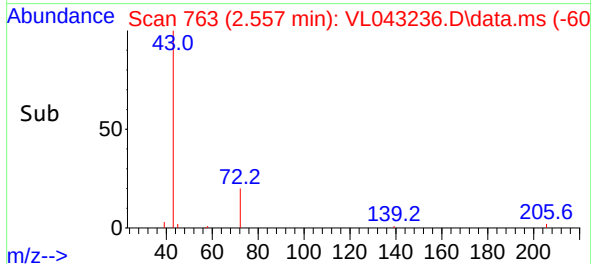
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2



Tgt Ion: 43 Resp: 565
Ion Ratio Lower Upper
43 100
72 20.0 18.1 27.1

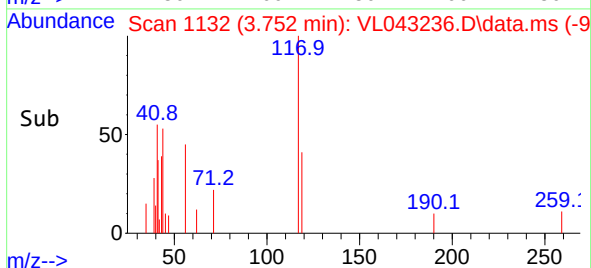
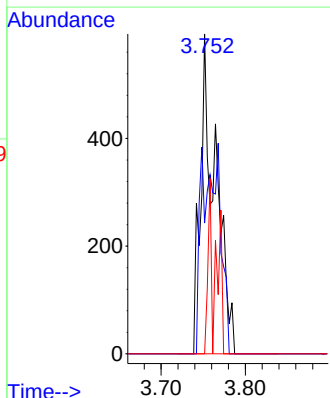
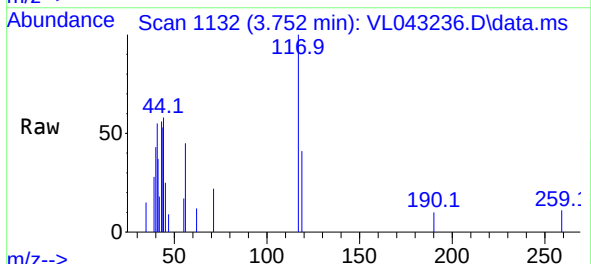
Manual Integrations
APPROVED

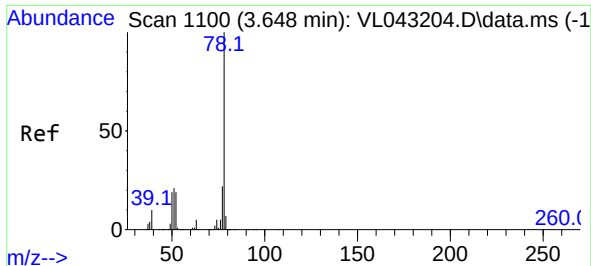
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.752 min Scan# 1132
Delta R.T. -0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

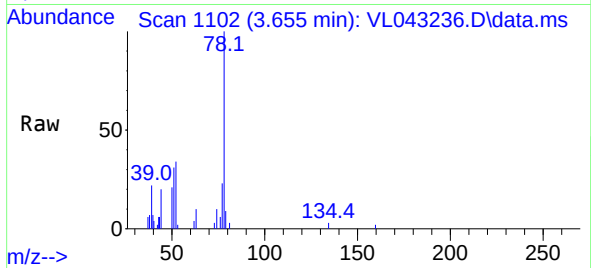
Tgt Ion:117 Resp: 738
Ion Ratio Lower Upper
117 100
119 40.9 74.6 112.0#
121 0.0 23.2 34.8#





#36
Benzene
Concen: 0.147 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

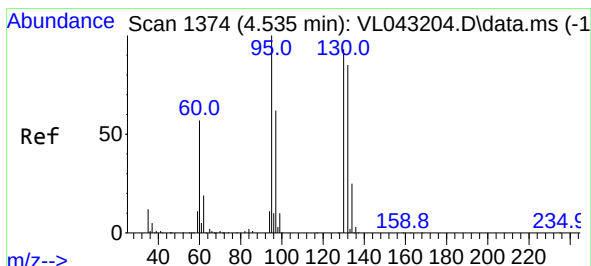
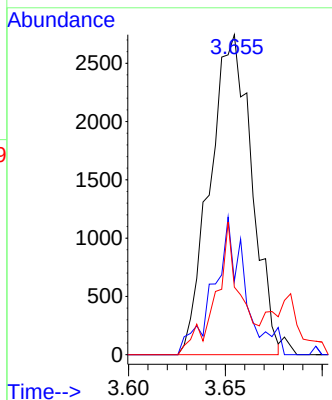
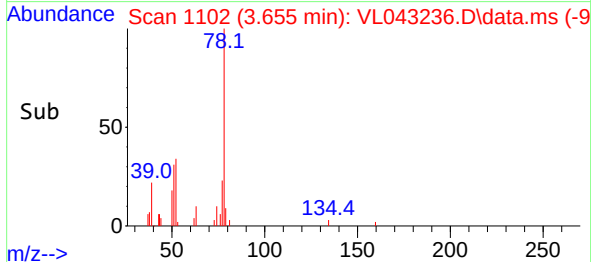
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2



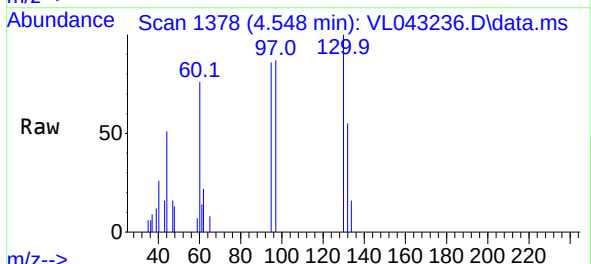
Tgt Ion: 78 Resp: 411
Ion Ratio Lower Upper
78 100
77 23.0 17.5 26.3
50 21.1 15.5 23.3

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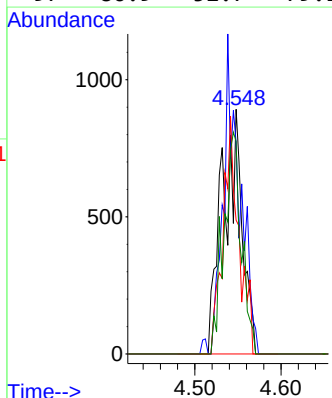
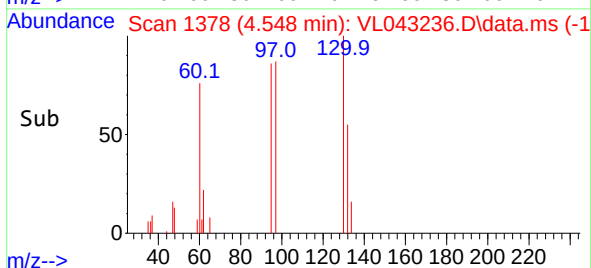
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

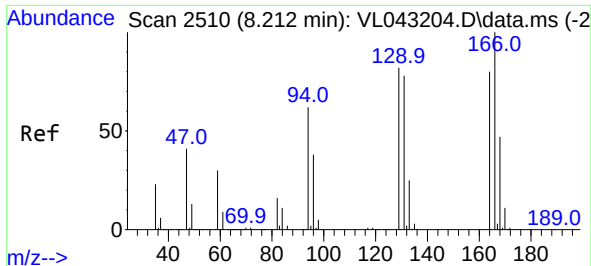


#38
Trichloroethene
Concen: 0.132 ppbv m
RT: 4.548 min Scan# 1378
Delta R.T. 0.013 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



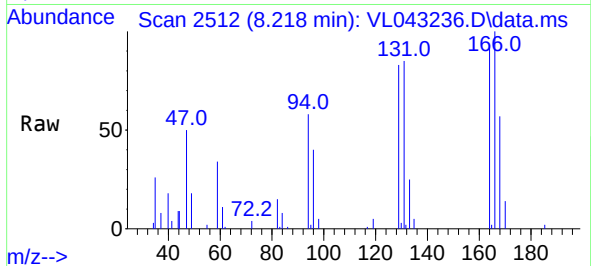
Tgt Ion:130 Resp: 1447
Ion Ratio Lower Upper
130 100
95 86.3 85.7 128.5
132 54.7 73.4 110.0#
97 86.9 52.7 79.1#





#52
Tetrachloroethene
Concen: 0.728 ppbv
RT: 8.218 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

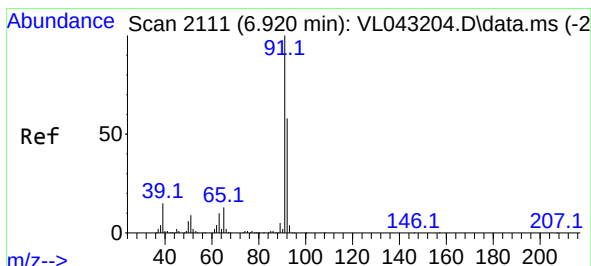
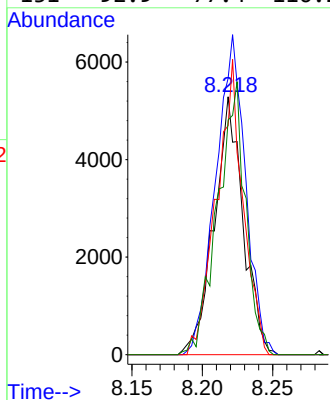
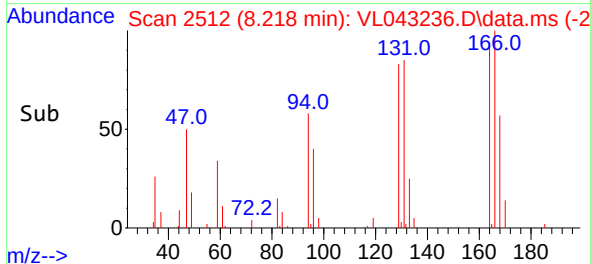
Instrument :
MSVOA_L
ClientSampleId :
9A-SG-2



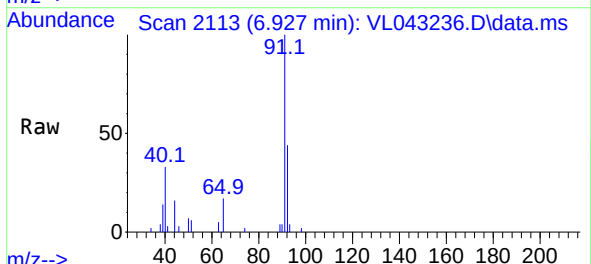
Tgt Ion:164 Resp: 758
Ion Ratio Lower Upper
164 100
166 107.1 99.4 149.2
129 88.8 81.8 122.8
131 92.9 77.4 116.2

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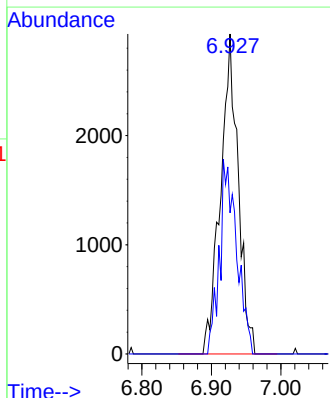
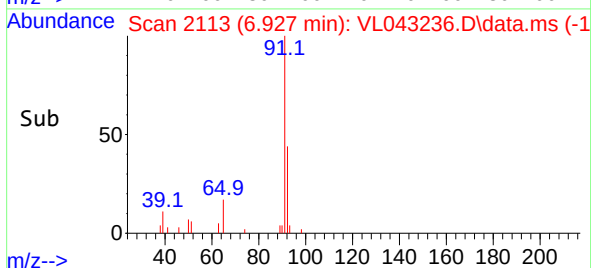
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

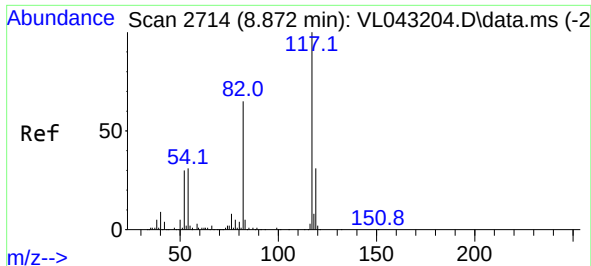


#53
Toluene
Concen: 0.156 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



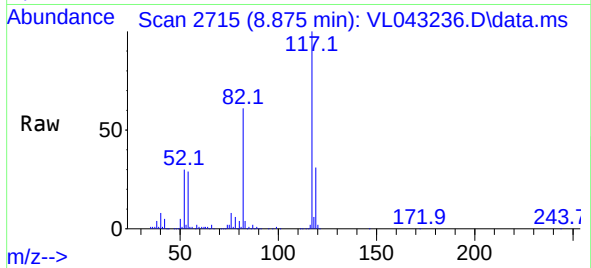
Tgt Ion: 91 Resp: 5176
Ion Ratio Lower Upper
91 100
92 59.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17

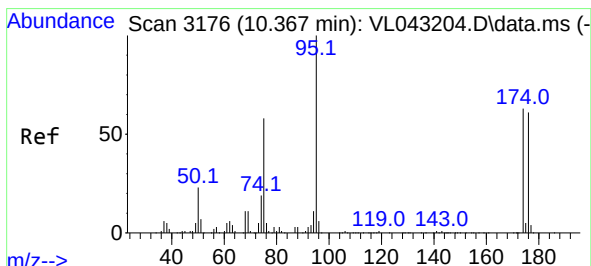
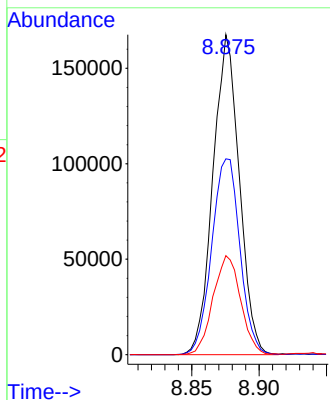
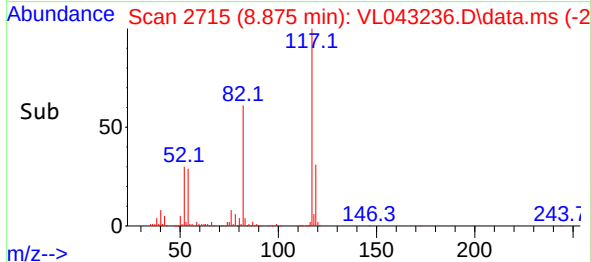
Instrument :
MSVOA_1
ClientSampleId :
9A-SG-2



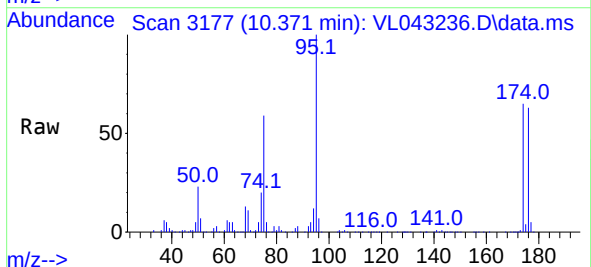
Tgt Ion: 117 Resp: 227868
Ion Ratio Lower Upper
117 100
82 65.8 56.1 84.1
119 32.5 25.0 37.6

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.856 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043236.D
Acq: 19 Nov 2025 13:17



Tgt Ion: 95 Resp: 164621
Ion Ratio Lower Upper
95 100
174 66.9 50.2 75.2
175 5.1 4.1 6.1

