

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042821.D
 Acq On : 05 Aug 2025 00:12
 Operator : SY/MD
 Sample : Q2750-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:15:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

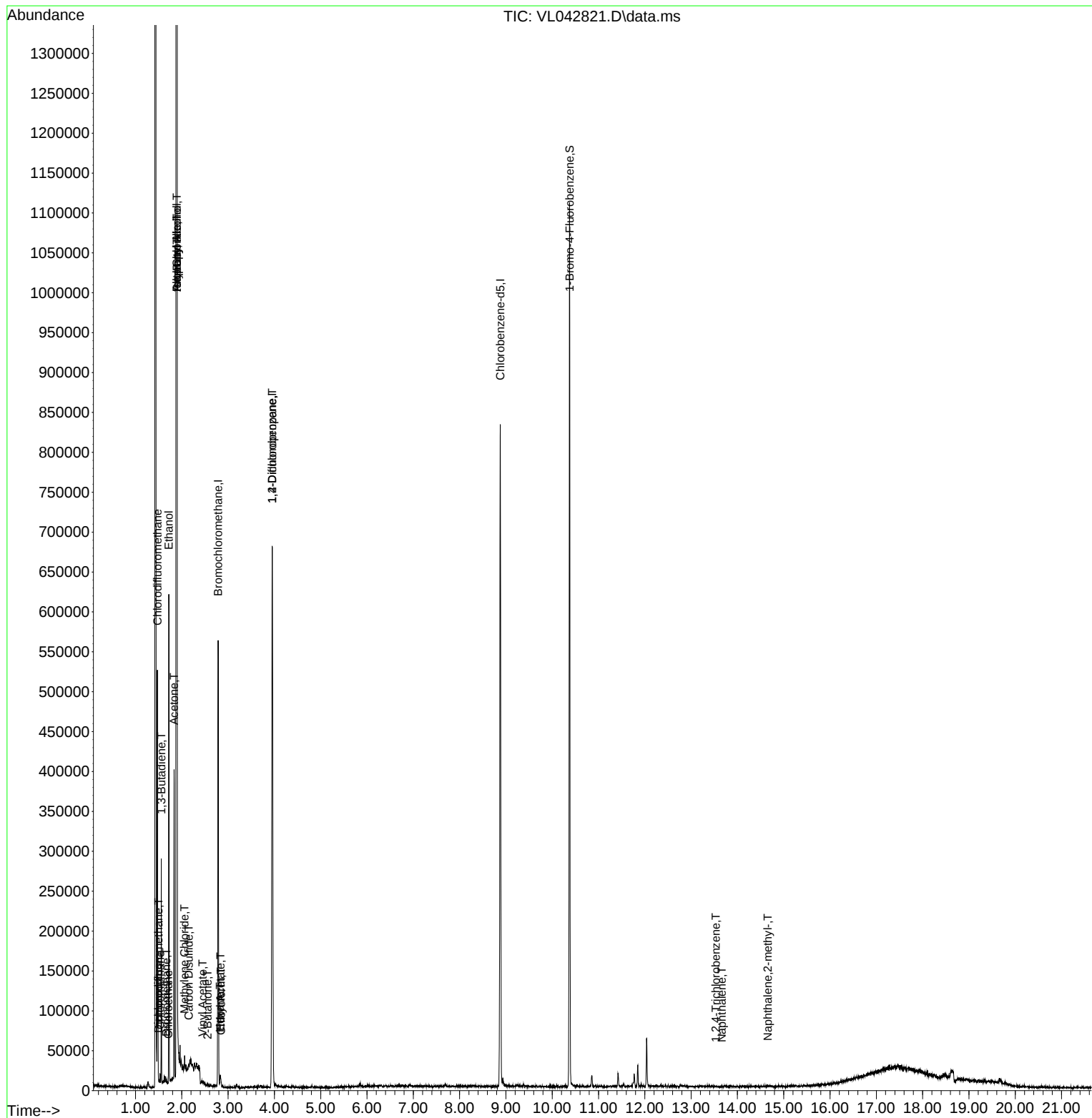
Internal Standards						
1) Bromochloromethane	2.784	49	148113	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	371352	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	318755	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	247401	9.801	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	742	0.038	ppbv #	77
3) Chlorodifluoromethane	1.473	51	145902	5.719	ppbv	99
4) Chloromethane	1.531	50	3318	0.419	ppbv	90
6) Bromomethane	1.670	94	70	0.023	ppbv #	1
7) Chloroethane	1.706	64	81	0.027	ppbv #	45
9) Propene	1.894	41	1245082	134.292	ppbv	94
13) Ethanol	1.719	45	223904	330.517	ppbv	89
15) Acetone	1.832	43	168012	8.215	ppbv	99
16) 1,3-Butadiene	1.557	39	15587	1.787	ppbv #	17
17) tert-Butyl alcohol	1.894	59	540458	29.300	ppbv #	93
19) Isopropyl Alcohol	1.894	45	4673053	429.964	ppbv #	40
20) Methylene Chloride	2.059	84	2276	0.353	ppbv #	76
21) Allyl Chloride	1.894	41	1245082	98.777	ppbv #	84
23) Vinyl Acetate	2.450	43	2169	0.087	ppbv #	77
25) Ethyl Acetate	2.836	43	7864	0.174	ppbv #	69
26) Hexane	2.826	57	1040	0.052	ppbv #	1
27) Carbon Disulfide	2.149	76	2798	0.165	ppbv #	66
29) Chloroform	2.845	83	1581	0.052	ppbv	88
34) 2-Butanone	2.557	43	1559	0.059	ppbv #	80
39) 1,2-Dichloropropane	3.955	63	97685	7.519	ppbv #	21
79) Naphthalene	13.662	128	75	0.437	ppbv #	69
80) Naphthalene,2-methyl-	14.656	142	42	1.130	ppbv	89
81) 1,2,4-Trichlorobenzene	13.533	180	32	0.436	ppbv #	12

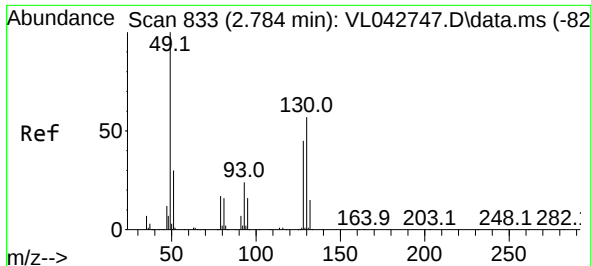
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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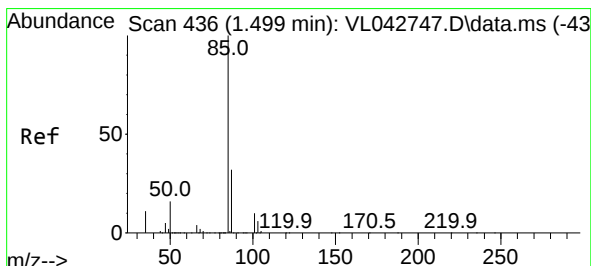
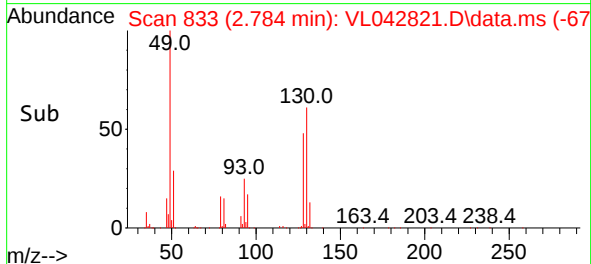
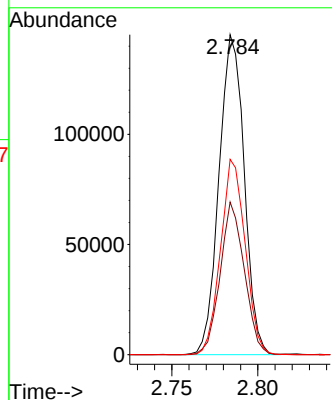
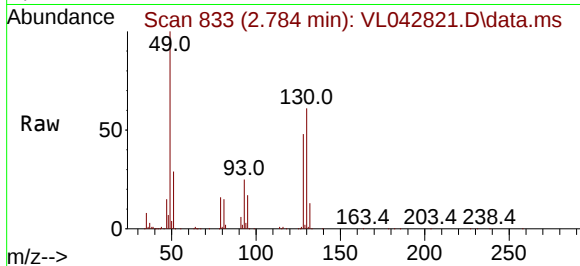




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 811
 Delta R.T. -0.000 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

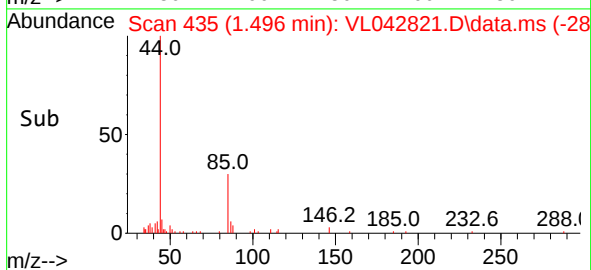
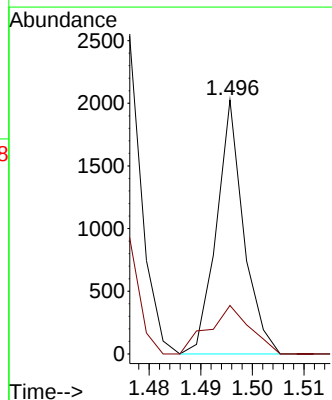
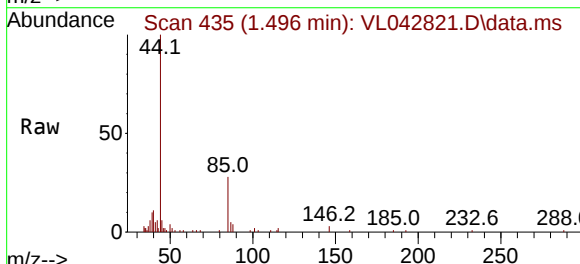
Instrument :
 MSVOA_L
 ClientSampleId :

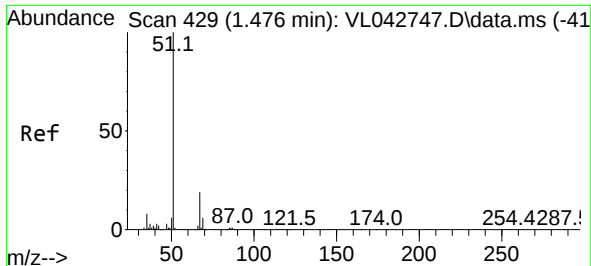
Tgt Ion: 49 Resp: 148113
 Ion Ratio Lower Upper
 49 100
 128 45.7 23.6 71.0
 130 59.7 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.038 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

Tgt Ion: 85 Resp: 742
 Ion Ratio Lower Upper
 85 100
 87 19.1 25.4 38.2#

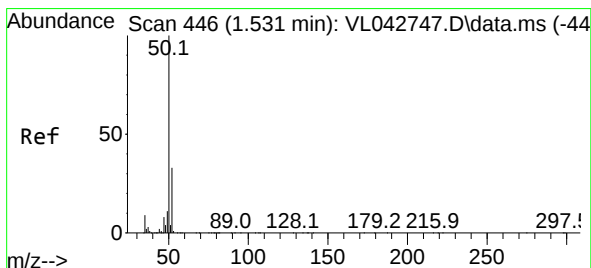
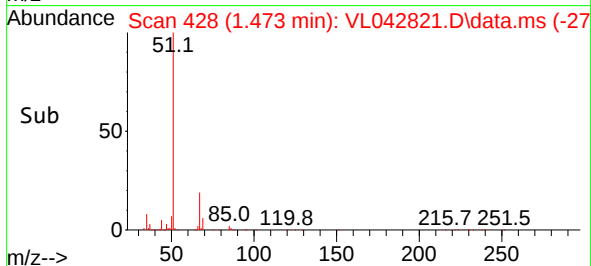
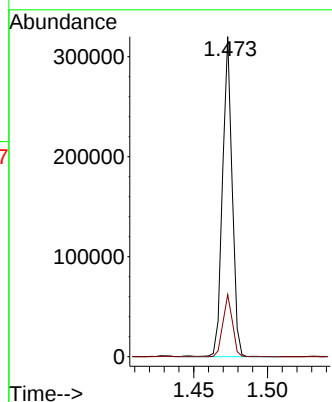
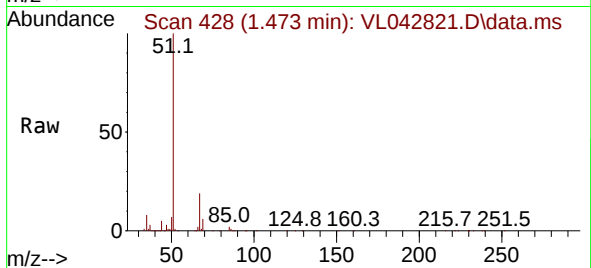




#3
Chlorodifluoromethane
Concen: 5.719 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

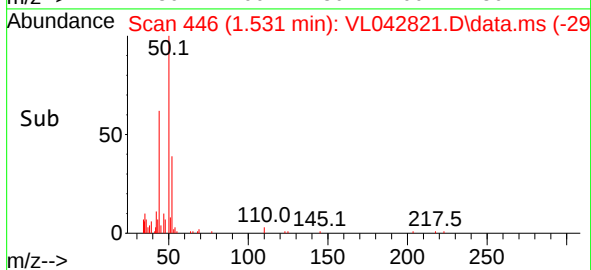
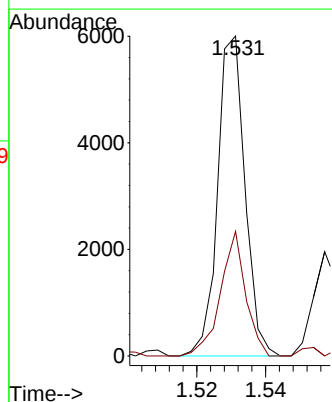
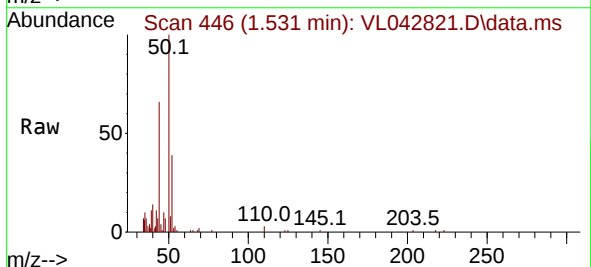
Instrument :
MSVOA_L
ClientSampleId :

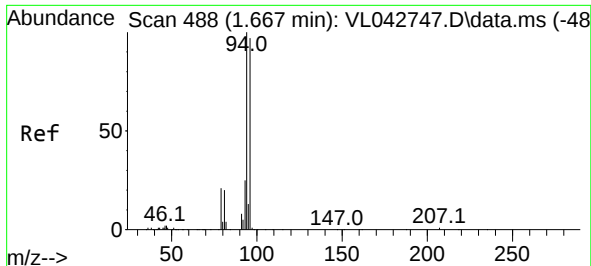
Tgt Ion: 51 Resp: 145902
Ion Ratio Lower Upper
51 100
67 19.2 15.0 22.6



#4
Chloromethane
Concen: 0.419 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 50 Resp: 3318
Ion Ratio Lower Upper
50 100
52 39.0 26.6 40.0

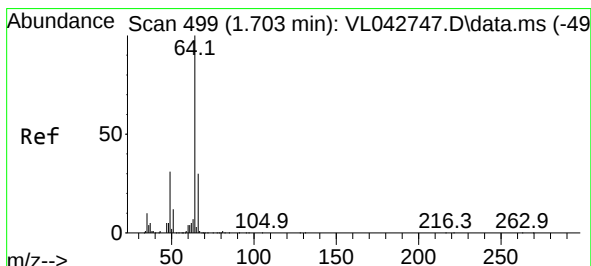
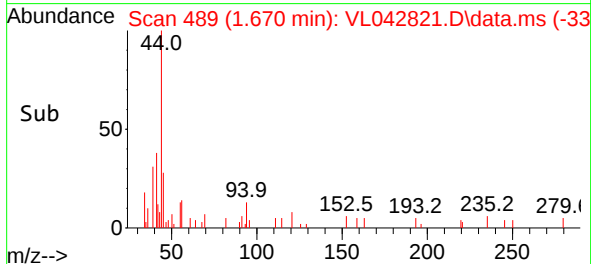
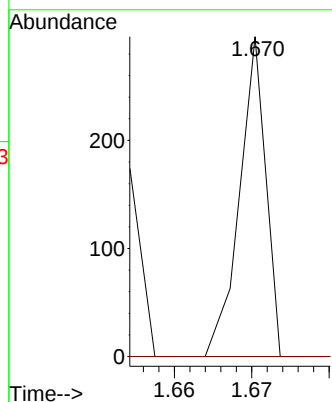
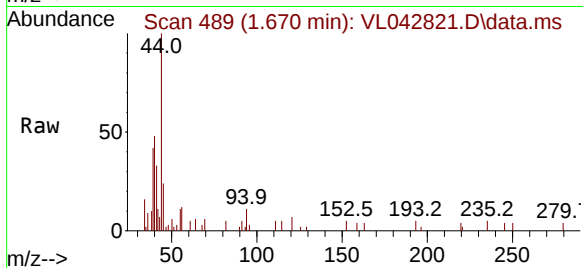




#6
Bromomethane
Concen: 0.023 ppbv
RT: 1.670 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

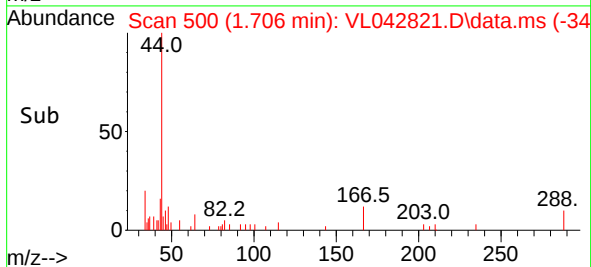
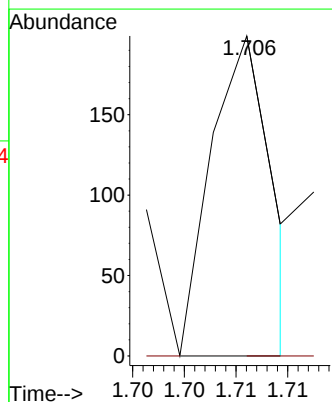
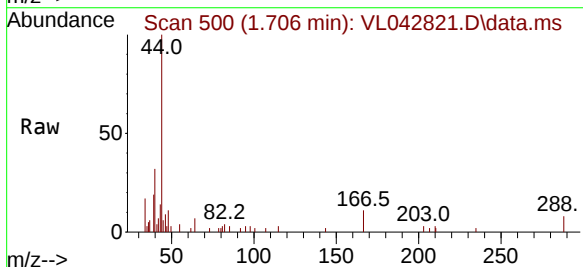
Instrument :
MSVOA_L
ClientSampleId :

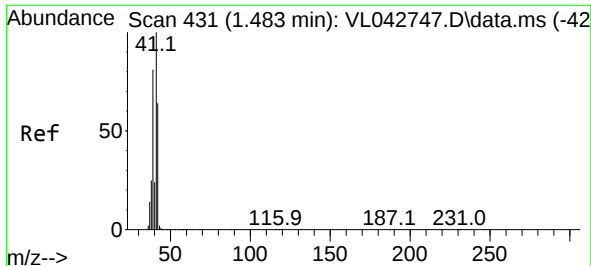
Tgt Ion: 94 Resp: 70
Ion Ratio Lower Upper
94 100
96 0.0 77.6 116.4#



#7
Chloroethane
Concen: 0.027 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 64 Resp: 81
Ion Ratio Lower Upper
64 100
66 0.0 24.1 36.1#

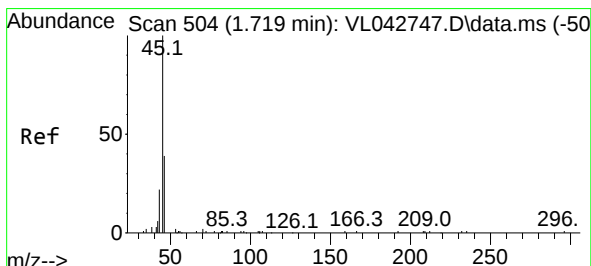
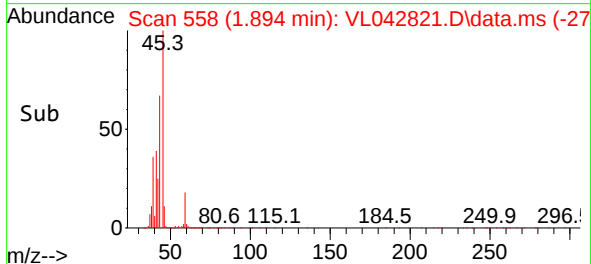
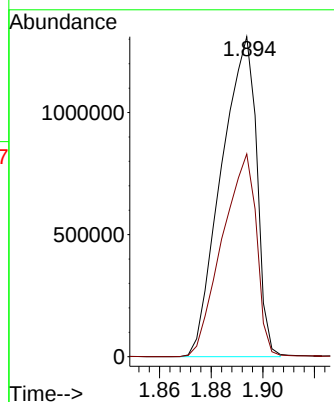
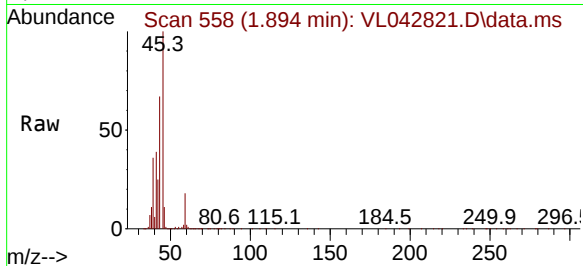




#9
 Propene
 Concen: 134.292 ppbv
 RT: 1.894 min Scan# 504
 Delta R.T. 0.411 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

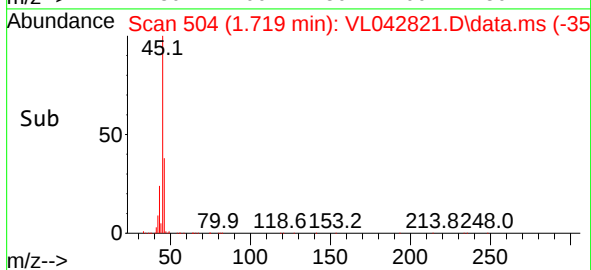
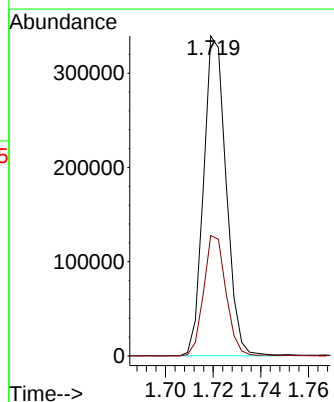
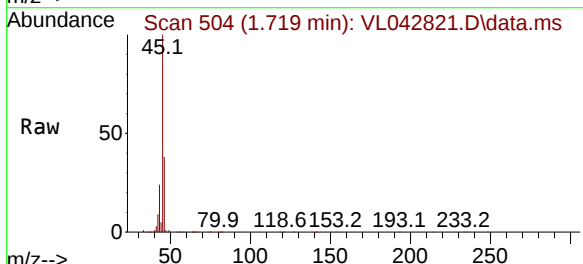
Instrument :
 MSVOA_L
 ClientSampleId :

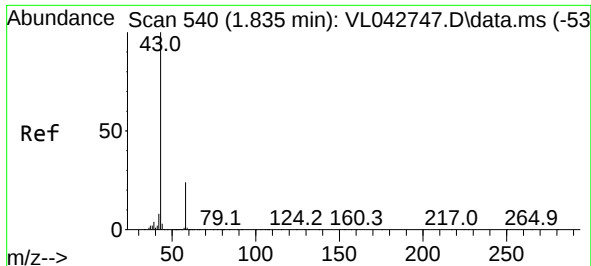
Tgt Ion: 41 Resp: 1245082
 Ion Ratio Lower Upper
 41 100
 42 62.0 53.2 79.8



#13
 Ethanol
 Concen: 330.517 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

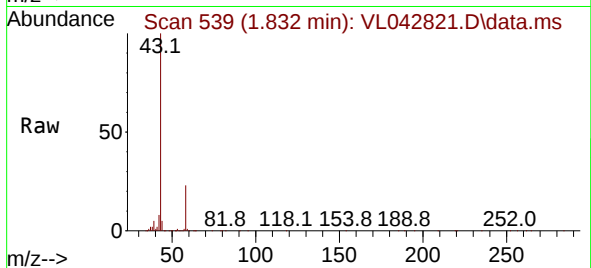
Tgt Ion: 45 Resp: 223904
 Ion Ratio Lower Upper
 45 100
 46 37.8 17.8 71.4



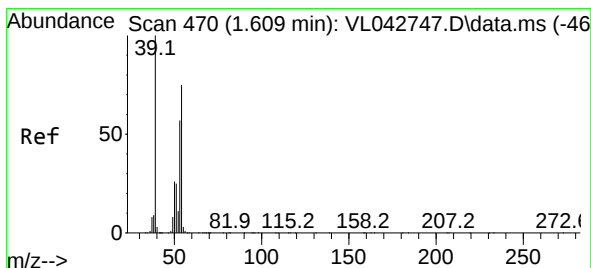
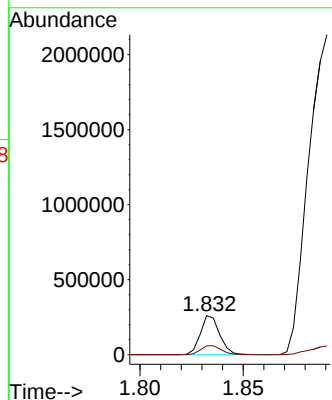
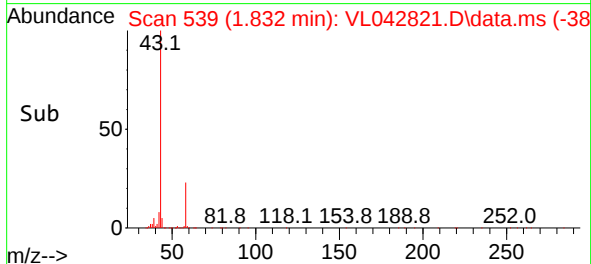


#15
Acetone
Concen: 8.215 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

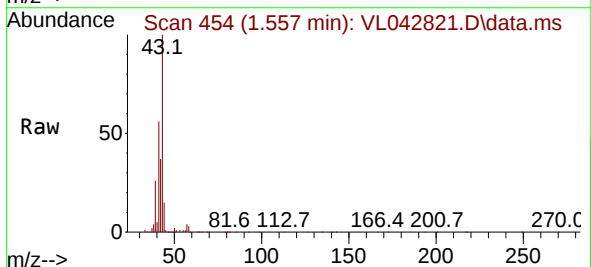
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MSVOA_L
ClientSampleId :



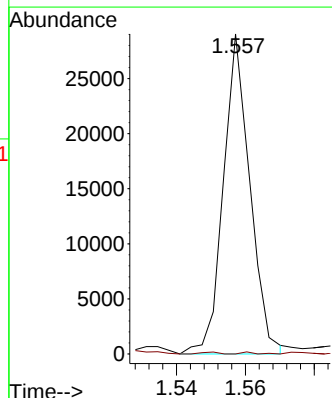
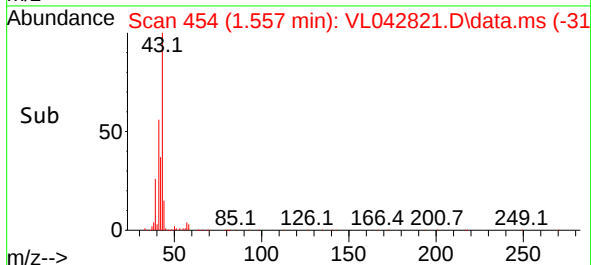
Tgt Ion: 43 Resp: 168012
Ion Ratio Lower Upper
43 100
58 25.3 19.8 29.8

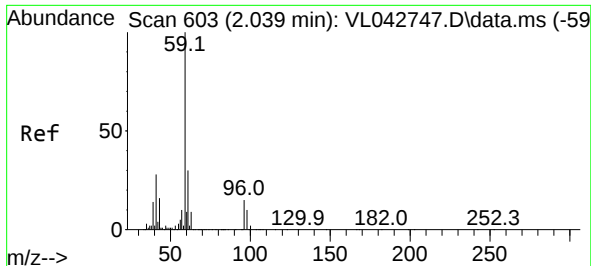


#16
1,3-Butadiene
Concen: 1.787 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12



Tgt Ion: 39 Resp: 15587
Ion Ratio Lower Upper
39 100
54 1.3 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 29.300 ppbv

RT: 1.894 min Scan# 558

Delta R.T. -0.146 min

Lab File: VL042821.D

Acq: 05 Aug 2025 00:12

Instrument :

MSVOA_L

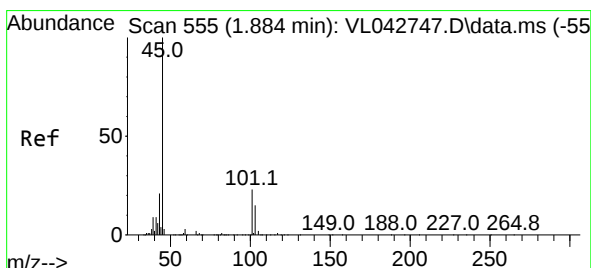
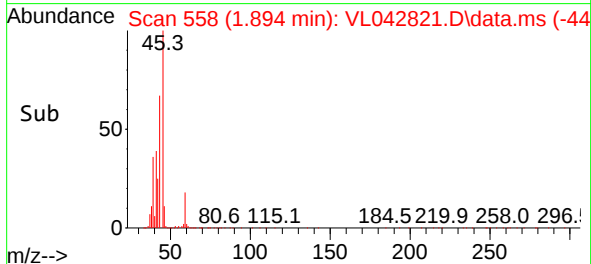
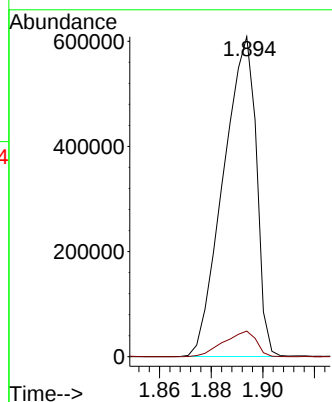
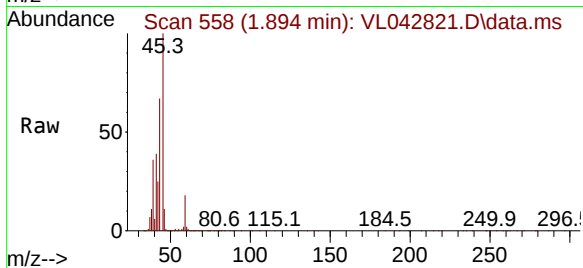
ClientSampleId :

Tgt Ion: 59 Resp: 540458

Ion Ratio Lower Upper

59 100

57 8.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 429.964 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042821.D

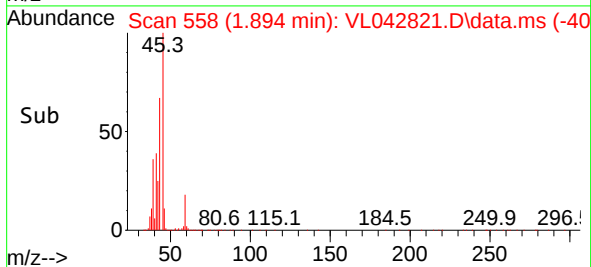
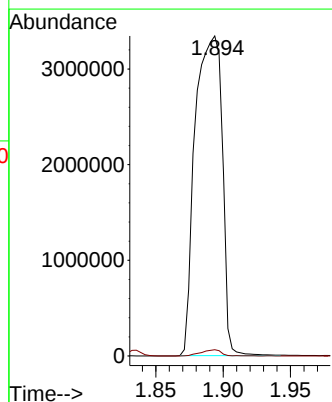
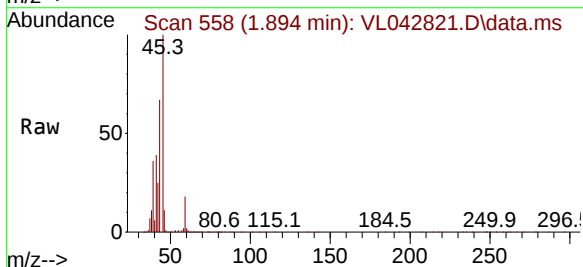
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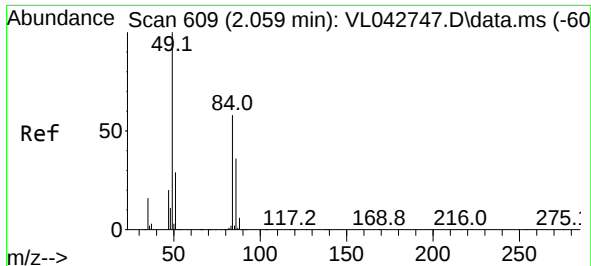
Tgt Ion: 45 Resp: 4673053

Ion Ratio Lower Upper

45 100

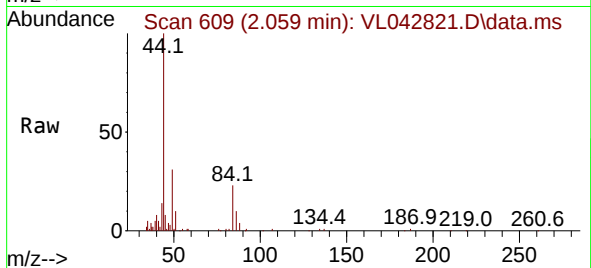
58 1.5 30.0 45.0#



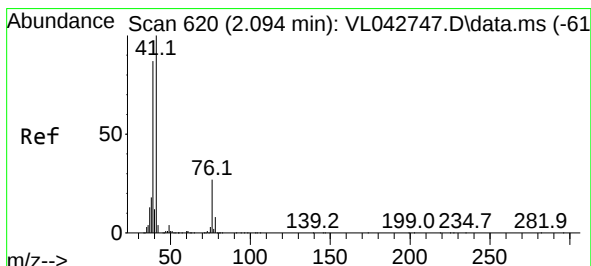
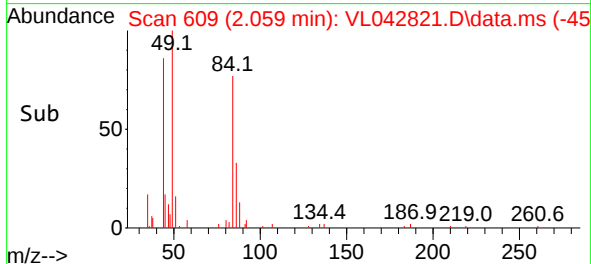
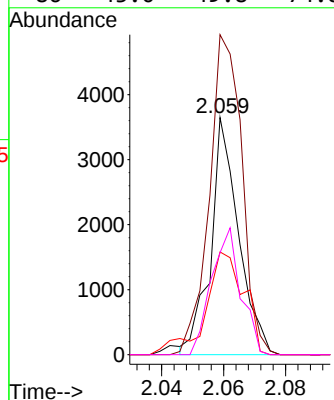


#20
Methylene Chloride
Concen: 0.353 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Instrument :
MSVOA_L
ClientSampleId :

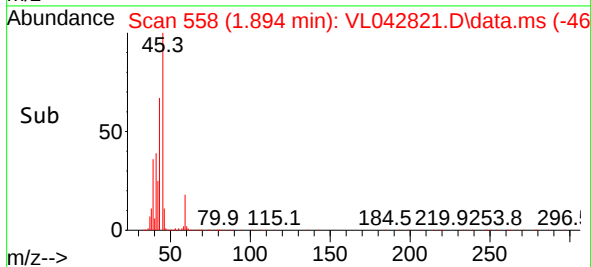
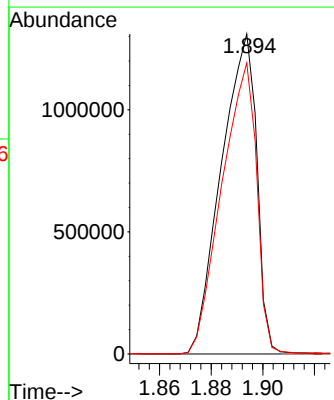
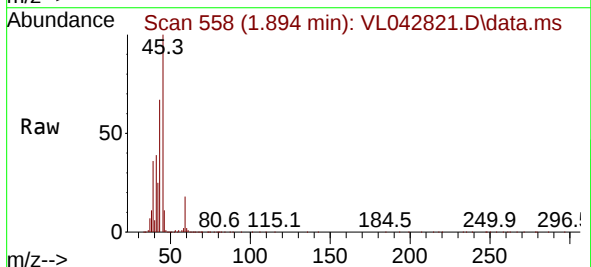


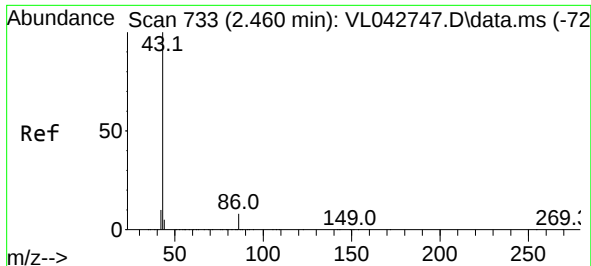
Tgt Ion: 84 Resp: 2276
Ion Ratio Lower Upper
84 100
49 134.9 138.6 208.0#
51 43.3 40.6 61.0
86 43.0 49.8 74.8#



#21
Allyl Chloride
Concen: 98.777 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.201 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

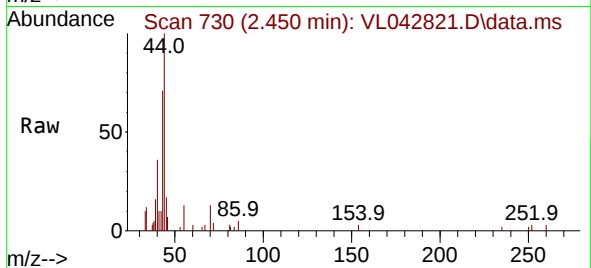
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Ion Ratio Lower Upper
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76 0.0 21.1 31.7#
39 89.7 68.3 102.5



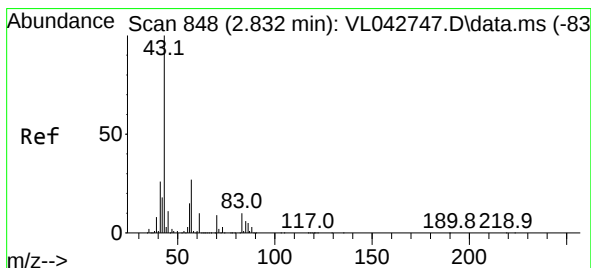
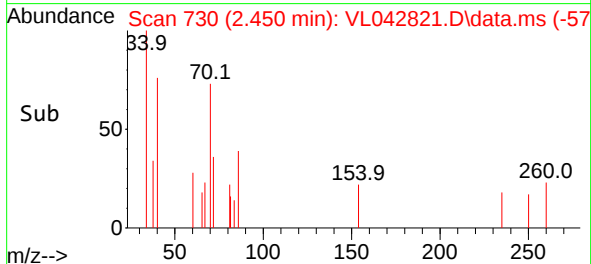
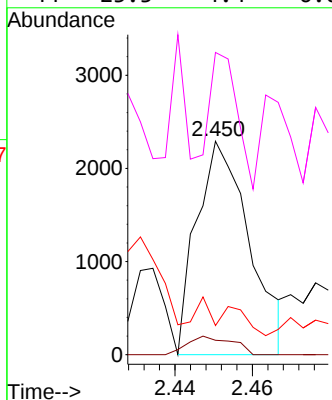


#23
 Vinyl Acetate
 Concen: 0.087 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.010 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

Instrument :
 MSVOA_L
 ClientSampleId :

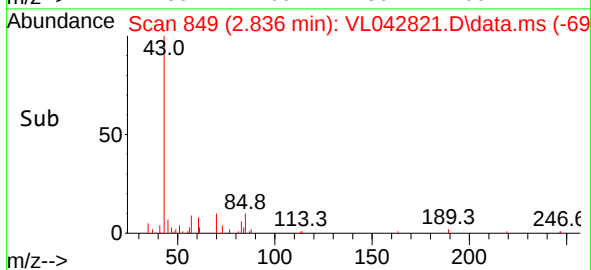
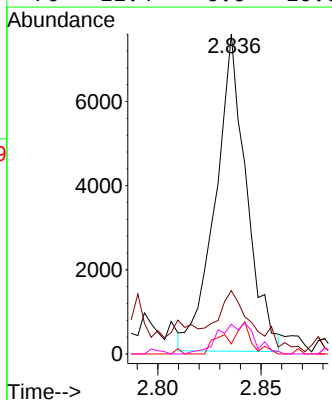
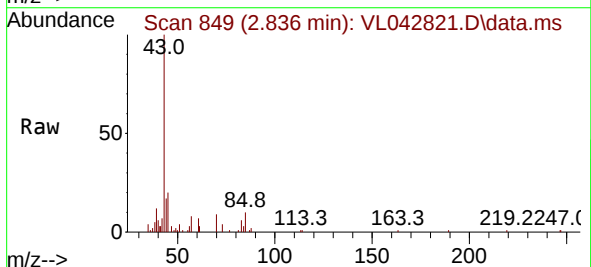


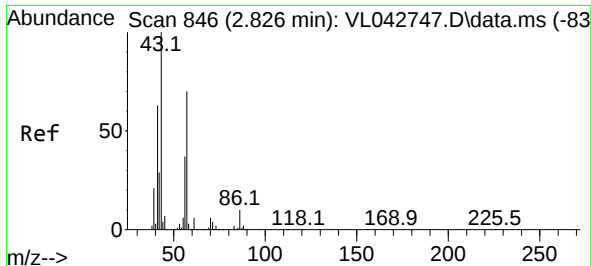
Tgt Ion:	43	Resp:	2169
Ion	Ratio	Lower	Upper
43	100		
86	6.7	6.1	9.1
42	1.8	7.8	11.8#
44	23.3	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 0.174 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. 0.003 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

Tgt Ion:	43	Resp:	7864
Ion	Ratio	Lower	Upper
43	100		
45	37.6	7.8	11.6#
61	8.9	6.7	10.1
70	11.4	6.6	10.0#

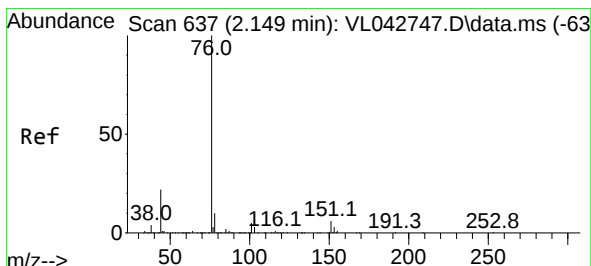
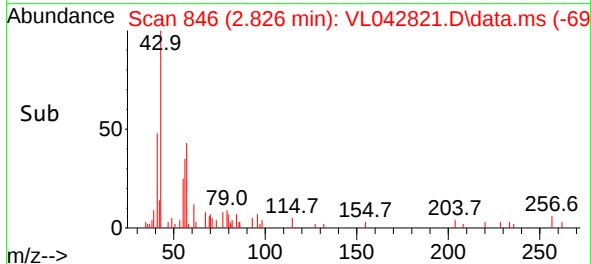
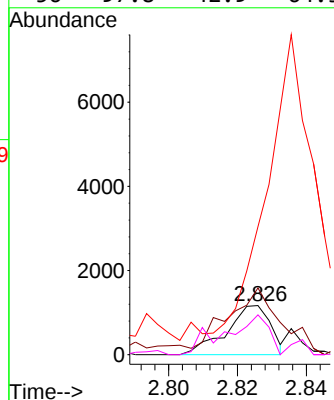
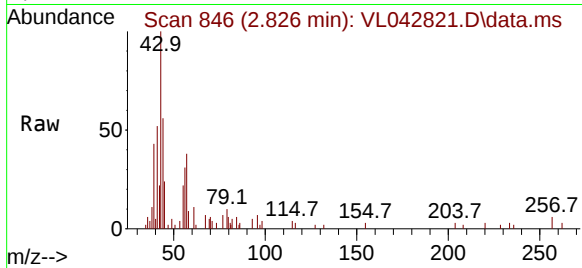




#26
Hexane
Concen: 0.052 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

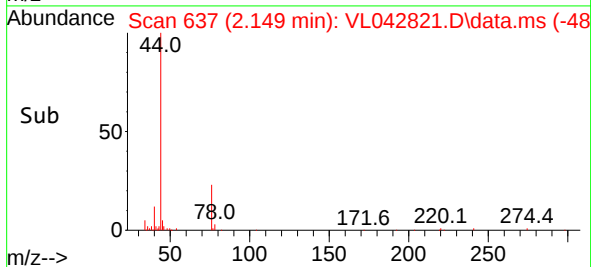
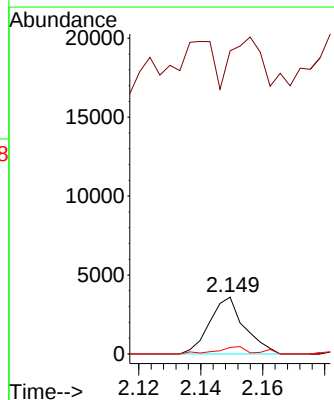
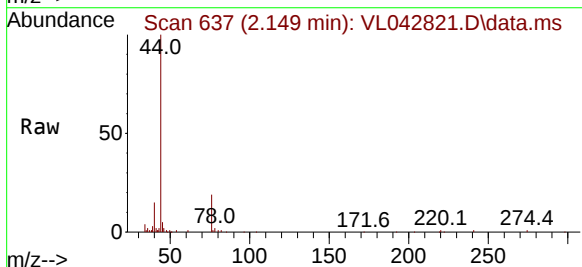
Instrument :
MSVOA_L
ClientSampleId :

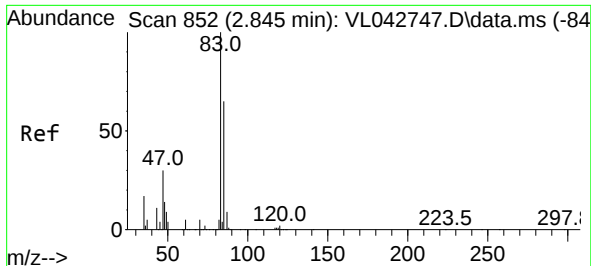
Tgt Ion: 57 Resp: 1040
Ion Ratio Lower Upper
57 100
41 226.2 75.4 113.2#
43 0.0 185.0 277.6#
56 97.8 42.9 64.3#



#27
Carbon Disulfide
Concen: 0.165 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 76 Resp: 2798
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 15.0 9.9 14.9#





#29

Chloroform

Concen: 0.052 ppbv

RT: 2.845 min Scan# 852

Delta R.T. 0.000 min

Lab File: VL042821.D

Acq: 05 Aug 2025 00:12

Instrument :

MSVOA_L

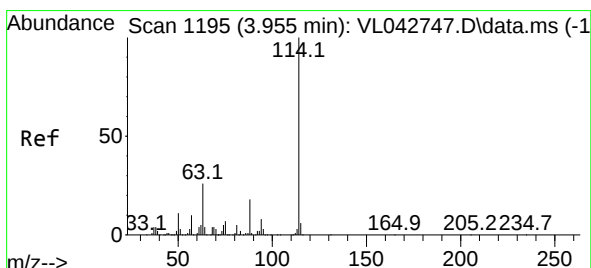
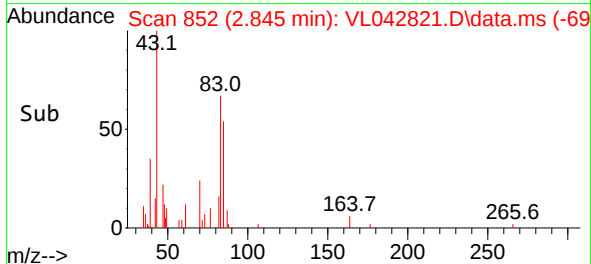
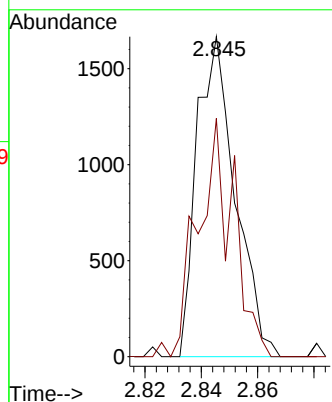
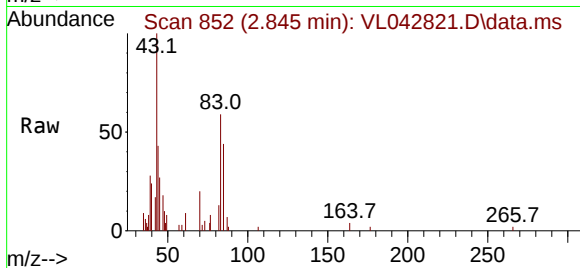
ClientSampleId :

Tgt Ion: 83 Resp: 1581

Ion Ratio Lower Upper

83 100

85 74.4 52.2 78.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VL042821.D

Acq: 05 Aug 2025 00:12

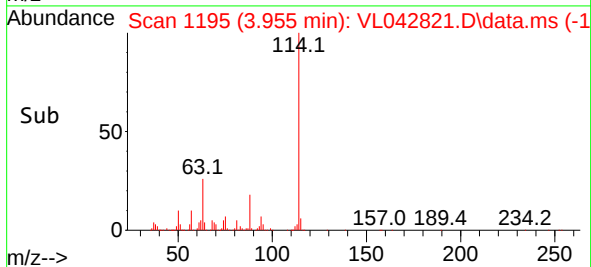
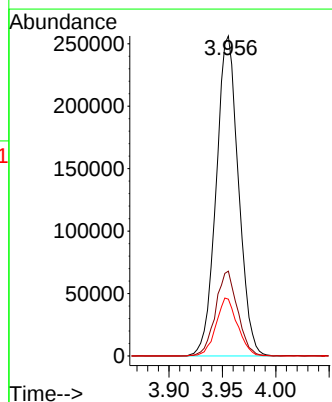
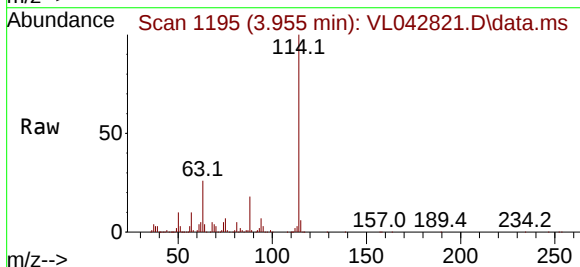
Tgt Ion: 114 Resp: 371352

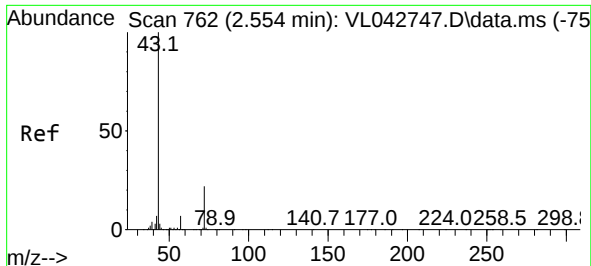
Ion Ratio Lower Upper

114 100

63 26.4 20.5 30.7

88 17.6 14.0 21.0

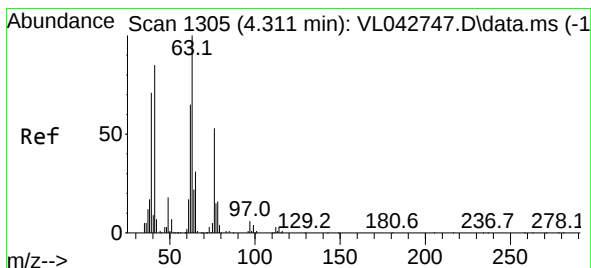
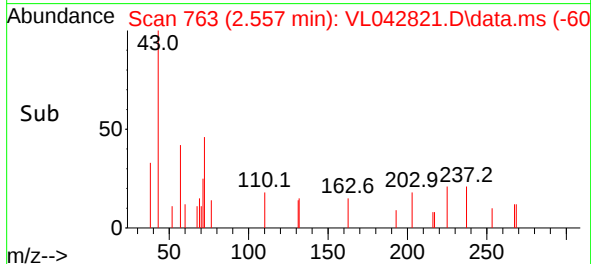
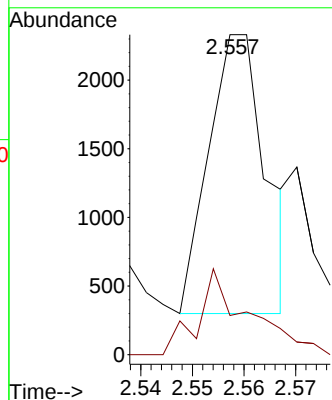
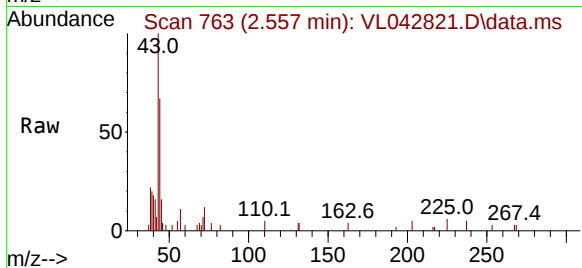




#34
2-Butanone
Concen: 0.059 ppbv
RT: 2.557 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

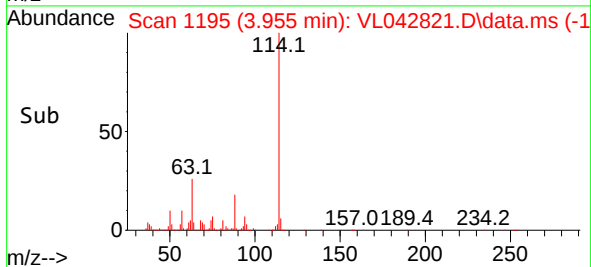
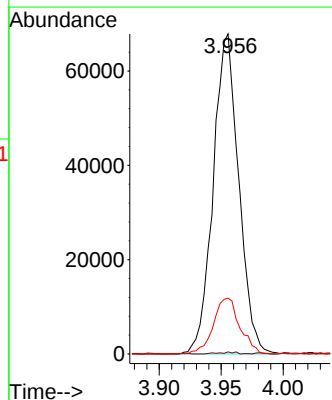
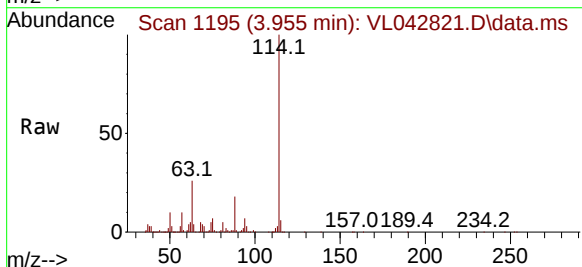
Instrument :
MSVOA_L
ClientSampleId :

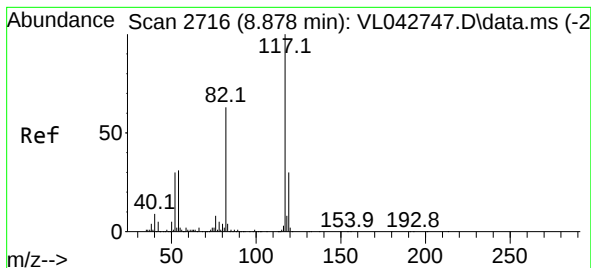
Tgt Ion: 43 Resp: 1559
Ion Ratio Lower Upper
43 100
72 31.2 17.4 26.0#



#39
1,2-Dichloropropane
Concen: 7.519 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

Tgt Ion: 63 Resp: 97685
Ion Ratio Lower Upper
63 100
41 0.6 68.2 102.4#
62 17.4 52.0 78.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042821.D

Acq: 05 Aug 2025 00:12

Instrument :

MSVOA_L

ClientSampleId :

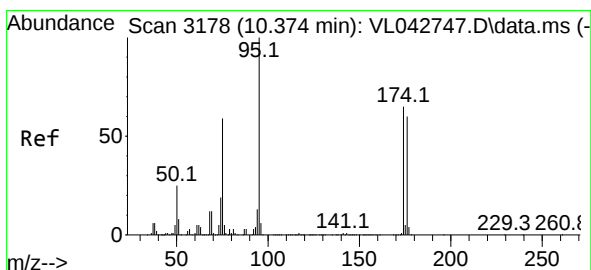
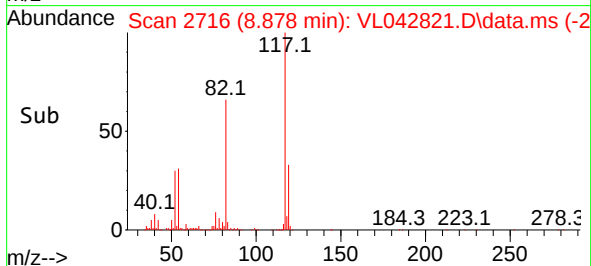
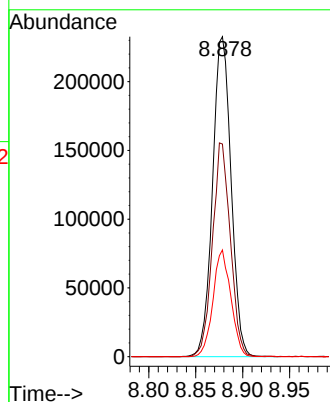
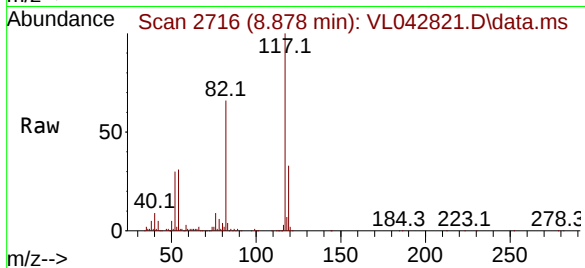
Tgt Ion:117 Resp: 318755

Ion Ratio Lower Upper

117 100

82 64.6 53.3 79.9

119 32.2 25.8 38.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.801 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.000 min

Lab File: VL042821.D

Acq: 05 Aug 2025 00:12

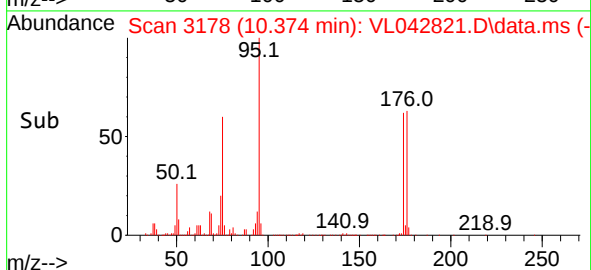
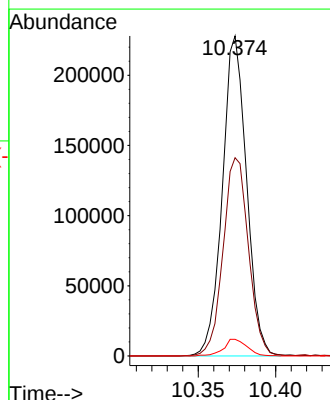
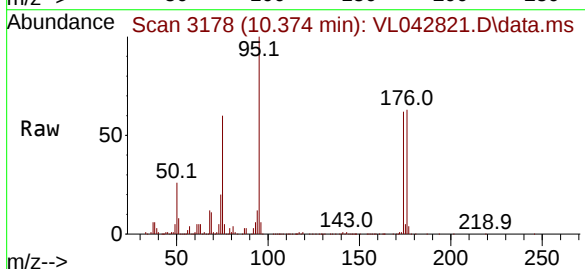
Tgt Ion: 95 Resp: 247401

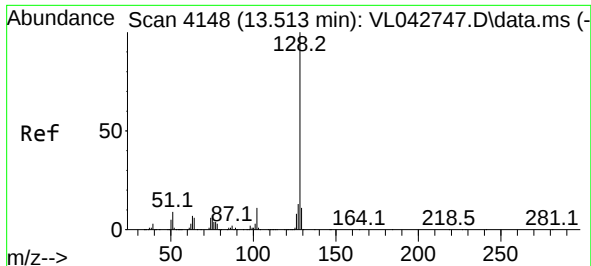
Ion Ratio Lower Upper

95 100

174 65.4 53.8 80.6

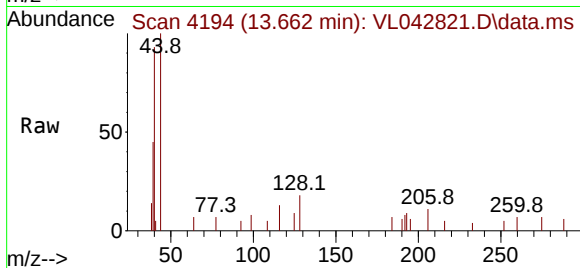
175 5.1 4.0 6.0



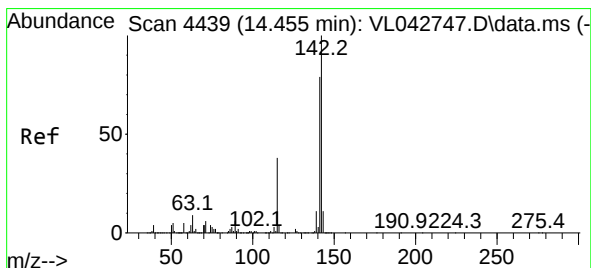
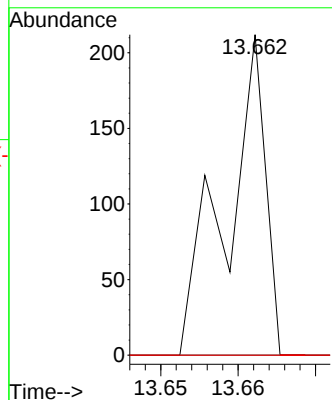
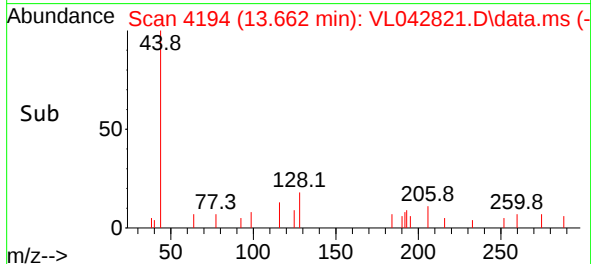


#79
Naphthalene
Concen: 0.437 ppbv
RT: 13.662 min Scan# 41
Delta R.T. 0.149 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12

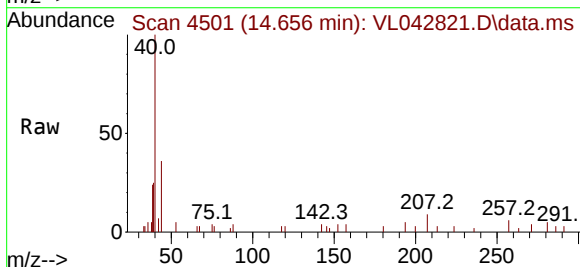
Instrument :
MSVOA_L
ClientSampleId :



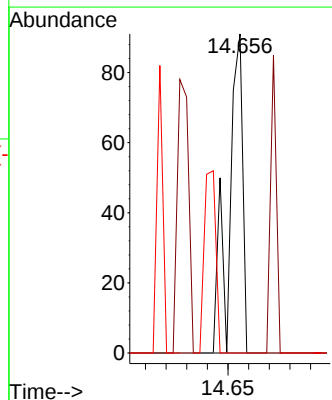
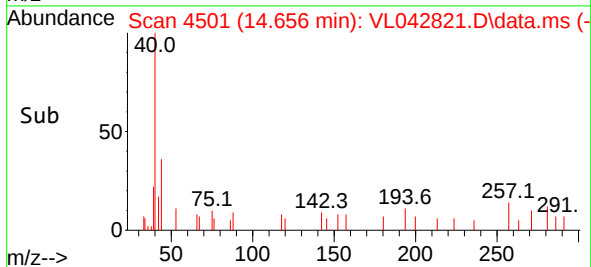
Tgt Ion:128 Resp: 75
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#

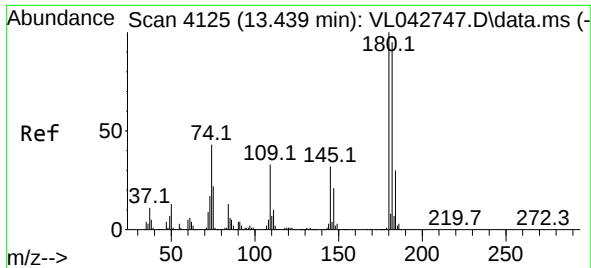


#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.656 min Scan# 4501
Delta R.T. 0.201 min
Lab File: VL042821.D
Acq: 05 Aug 2025 00:12



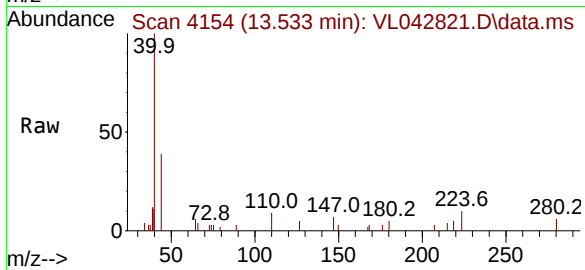
Tgt Ion:142 Resp: 42
Ion Ratio Lower Upper
142 100
141 69.0 65.8 98.8
115 38.1 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 0.436 ppbv
 RT: 13.533 min Scan# 41
 Delta R.T. 0.094 min
 Lab File: VL042821.D
 Acq: 05 Aug 2025 00:12

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:180 Resp: 32
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.2 114.2#
 184 0.0 24.8 37.2#

