

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042815.D
 Acq On : 04 Aug 2025 20:49
 Operator : SY/MD
 Sample : Q2750-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5DL

Quant Time: Aug 05 01:12:56 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)

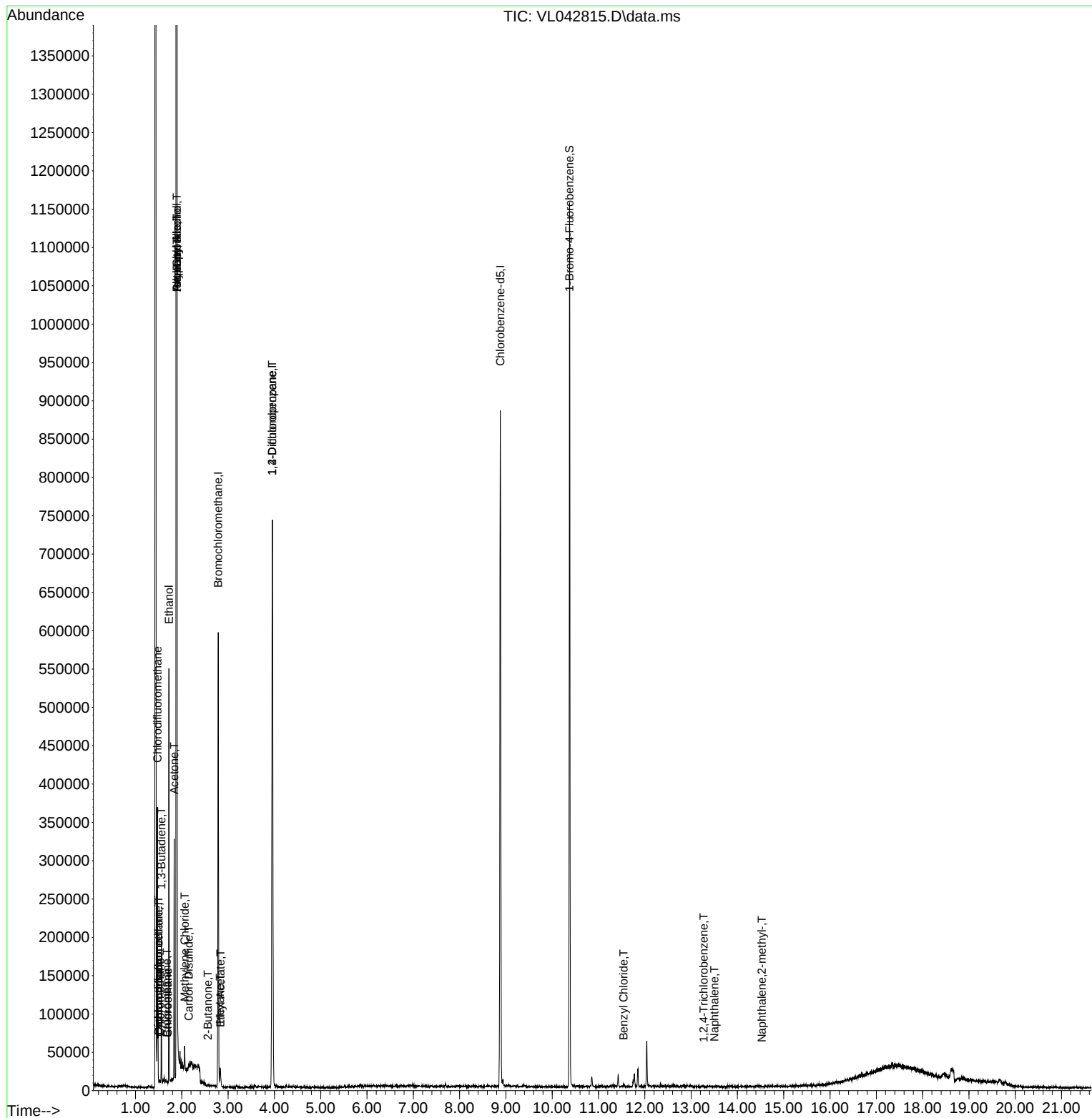
Internal Standards						
1) Bromochloromethane	2.787	49	151902	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	412340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	344266	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	261303	9.584	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	496	0.025	ppbv	97
3) Chlorodifluoromethane	1.473	51	102736	3.927	ppbv	99
4) Chloromethane	1.531	50	455	0.056	ppbv	88
6) Bromomethane	1.680	94	81	0.026	ppbv #	24
7) Chloroethane	1.697	64	163	0.053	ppbv #	45
8) Dichlorotetrafluoroethane	1.499	85	496	0.030	ppbv #	19
9) Propene	1.891	41	1034738	108.821	ppbv	94
13) Ethanol	1.722	45	188043	270.448	ppbv	90
15) Acetone	1.836	43	133054	6.343	ppbv	99
16) 1,3-Butadiene	1.557	39	9934	1.110	ppbv #	19
17) tert-Butyl alcohol	1.894	59	457380	24.178	ppbv #	94
19) Isopropyl Alcohol	1.891	45	4242568	380.618	ppbv #	40
20) Methylene Chloride	2.062	84	4526	0.685	ppbv #	80
21) Allyl Chloride	1.891	41	1034738	80.042	ppbv #	84
25) Ethyl Acetate	2.836	43	9523	0.205	ppbv #	85
26) Hexane	2.826	57	4065	0.200	ppbv #	81
27) Carbon Disulfide	2.150	76	2818	0.162	ppbv #	67
34) 2-Butanone	2.561	43	1369	0.047	ppbv #	79
39) 1,2-Dichloropropane	3.956	63	106714	7.398	ppbv #	22
66) Benzyl Chloride	11.539	91	378	0.081	ppbv #	84
79) Naphthalene	13.501	128	11	0.435	ppbv #	69
80) Naphthalene,2-methyl-	14.527	142	31	1.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.271	180	27	0.436	ppbv #	1

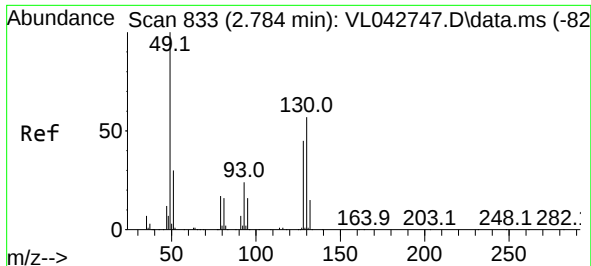
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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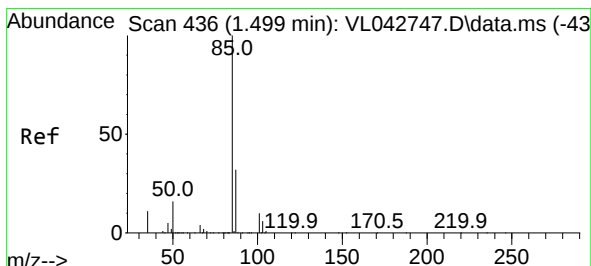
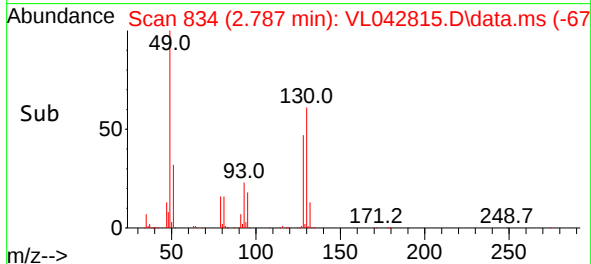
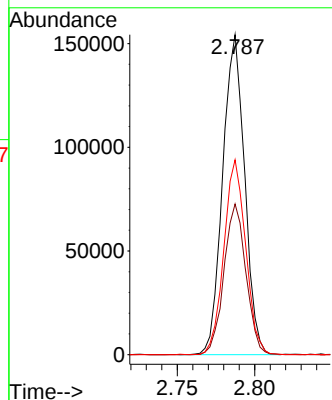
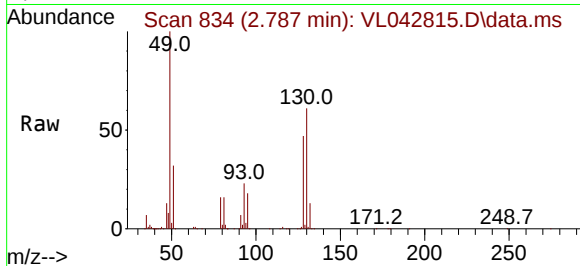




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 833
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

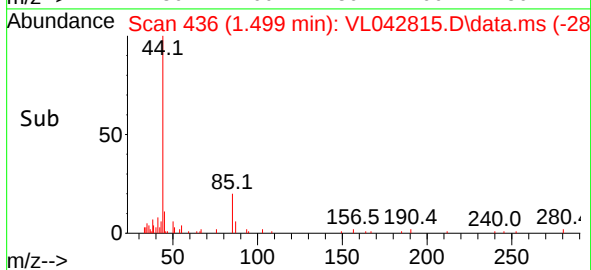
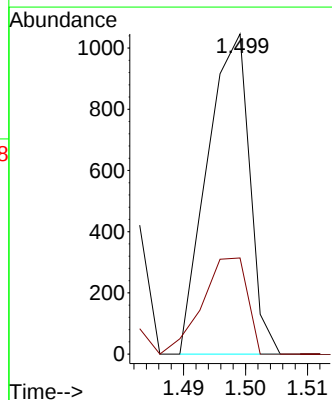
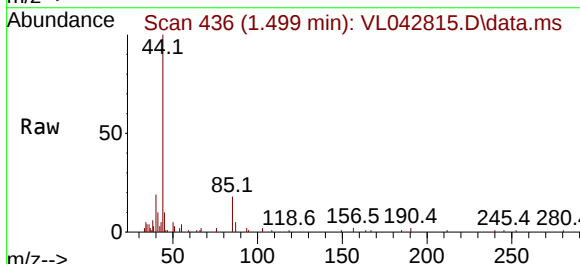
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

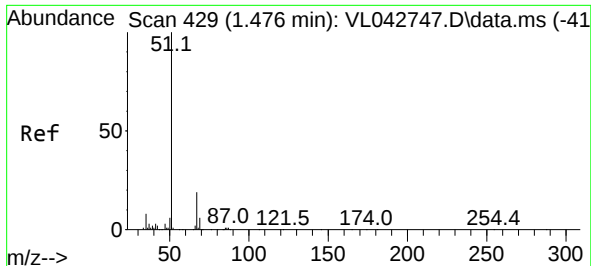
Tgt Ion: 49 Resp: 151902
Ion Ratio Lower Upper
49 100
128 47.2 23.6 71.0
130 60.6 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.025 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 85 Resp: 496
Ion Ratio Lower Upper
85 100
87 30.0 25.4 38.2

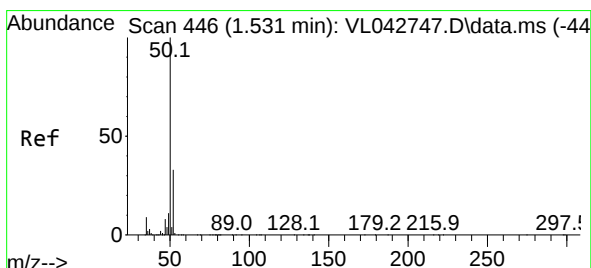
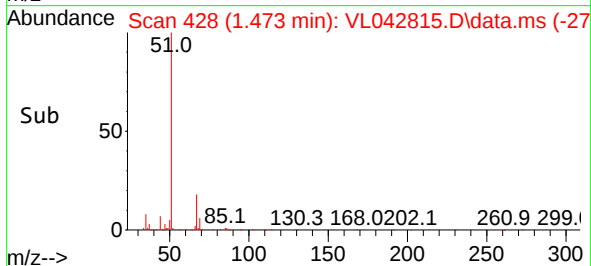
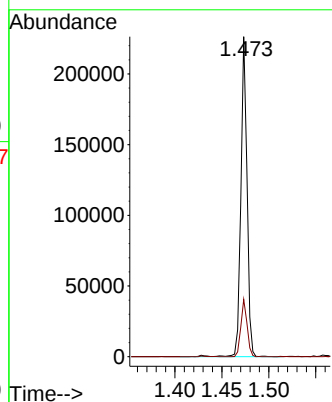
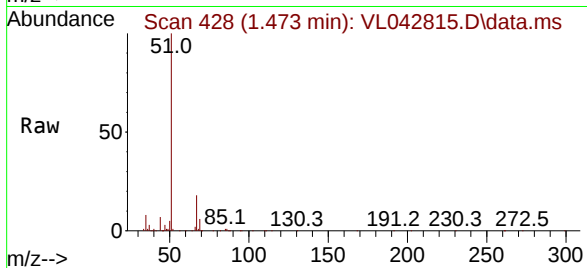




#3
Chlorodifluoromethane
Concen: 3.927 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

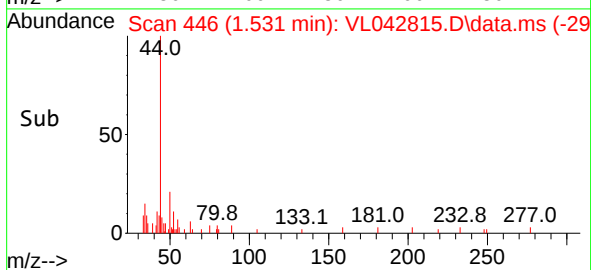
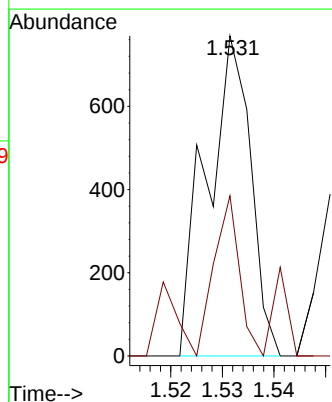
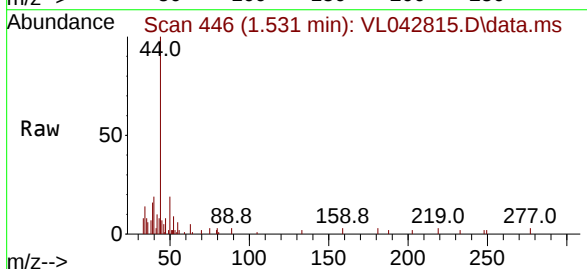
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

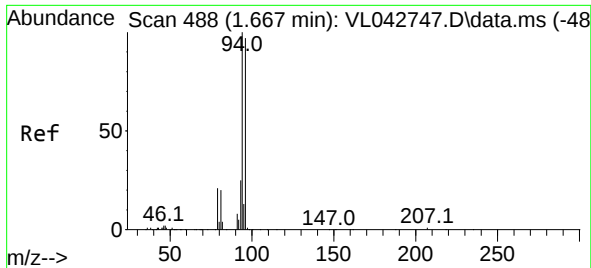
Tgt Ion: 51 Resp: 102736
Ion Ratio Lower Upper
51 100
67 18.5 15.0 22.6



#4
Chloromethane
Concen: 0.056 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 50 Resp: 455
Ion Ratio Lower Upper
50 100
52 39.9 26.6 40.0

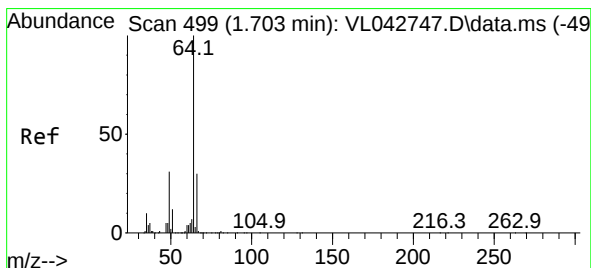
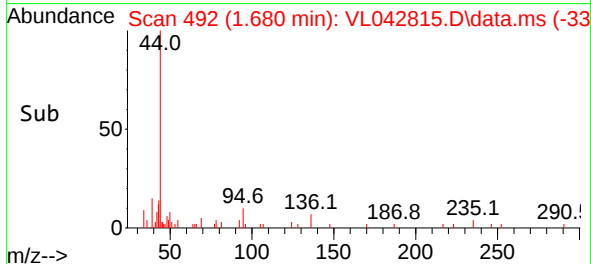
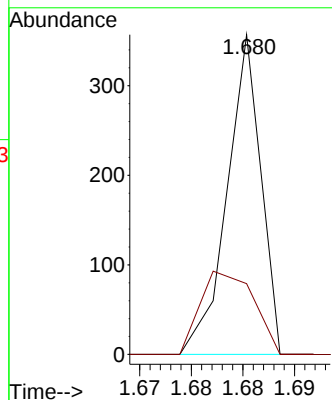
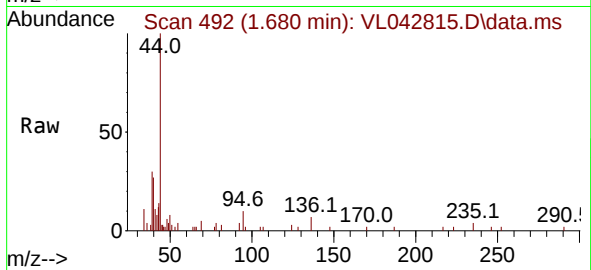




#6
Bromomethane
Concen: 0.026 ppbv
RT: 1.680 min Scan# 492
Delta R.T. 0.013 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

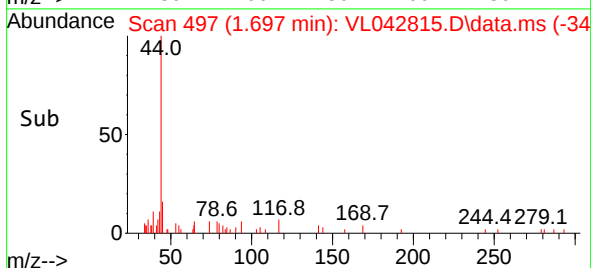
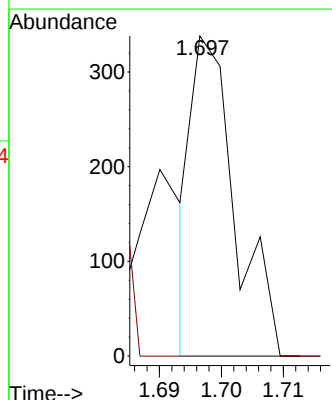
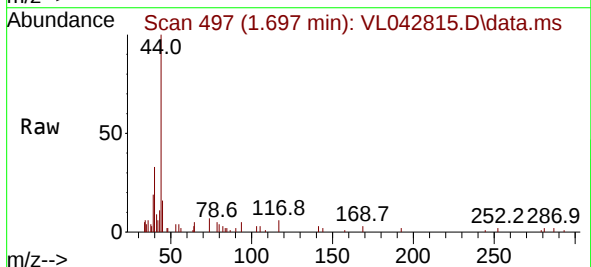
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

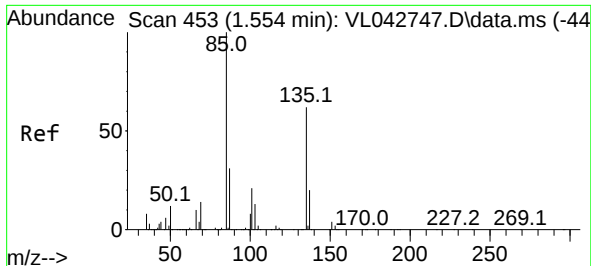
Tgt Ion: 94 Resp: 81
Ion Ratio Lower Upper
94 100
96 22.1 77.6 116.4#



#7
Chloroethane
Concen: 0.053 ppbv
RT: 1.697 min Scan# 497
Delta R.T. -0.006 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 64 Resp: 163
Ion Ratio Lower Upper
64 100
66 0.0 24.1 36.1#

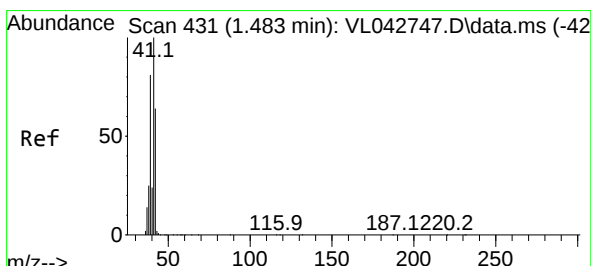
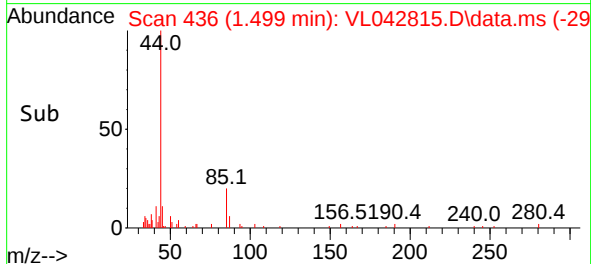
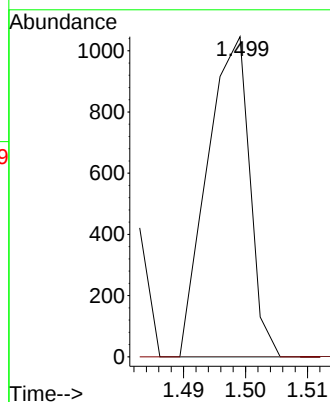
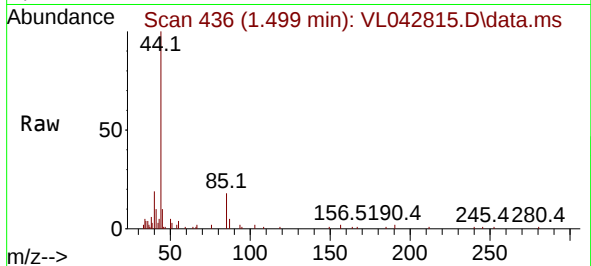




#8
Dichlorotetrafluoroethane
Concen: 0.030 ppbv
RT: 1.499 min Scan# 41
Delta R.T. -0.055 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

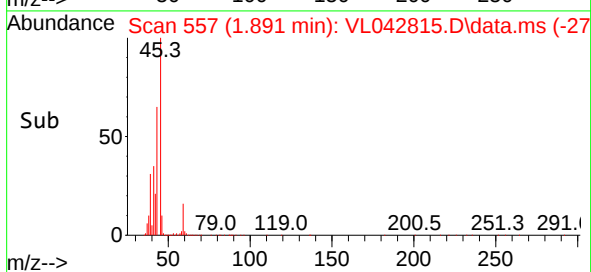
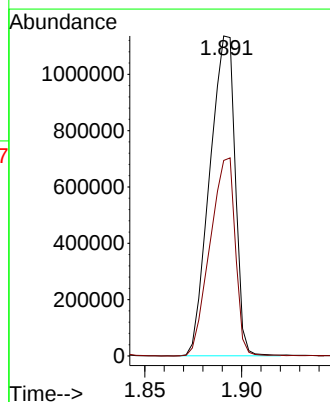
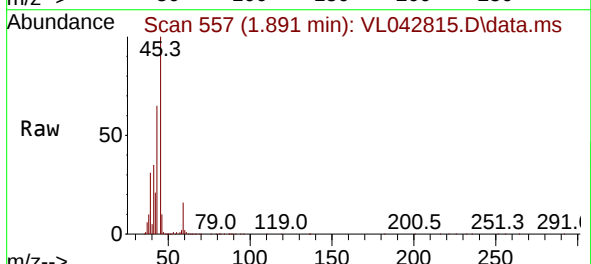
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

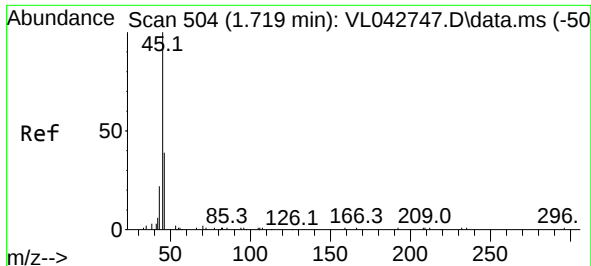
Tgt Ion: 85 Resp: 496
Ion Ratio Lower Upper
85 100
135 0.0 50.6 76.0#



#9
Propene
Concen: 108.821 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.408 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 41 Resp: 1034738
Ion Ratio Lower Upper
41 100
42 61.6 53.2 79.8

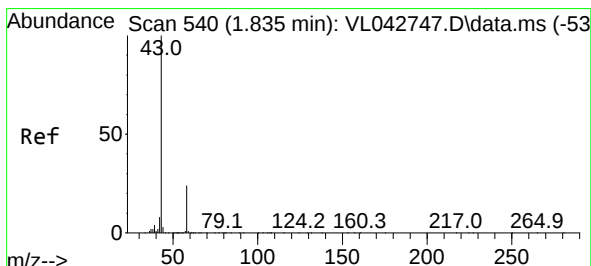
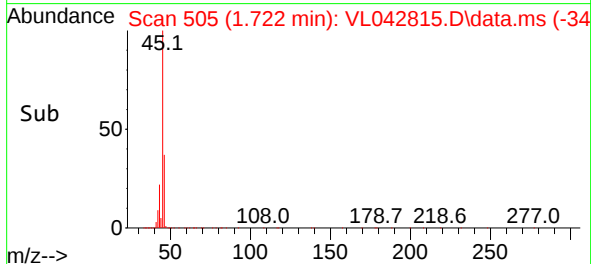
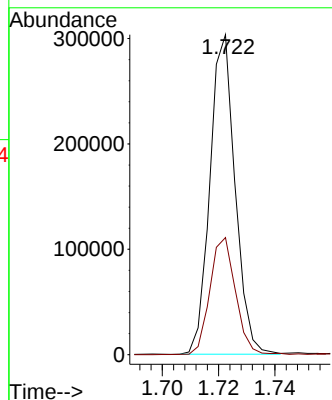
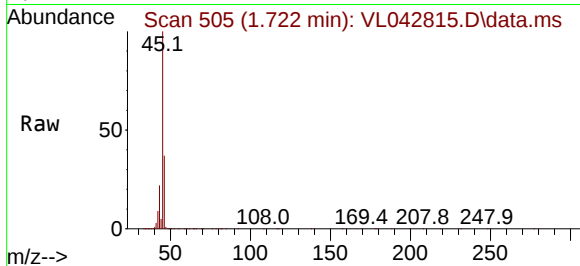




#13
 Ethanol
 Concen: 270.448 ppbv
 RT: 1.722 min Scan# 50
 Delta R.T. 0.003 min
 Lab File: VL042815.D
 Acq: 04 Aug 2025 20:49

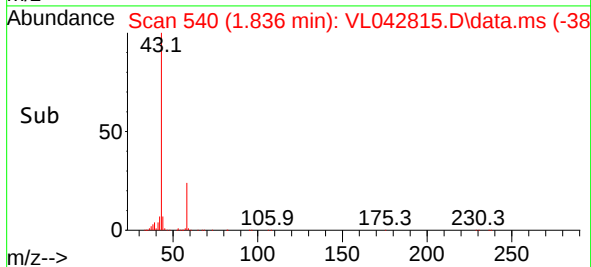
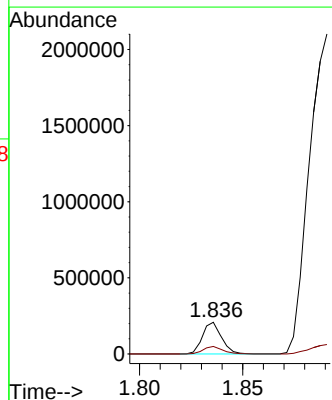
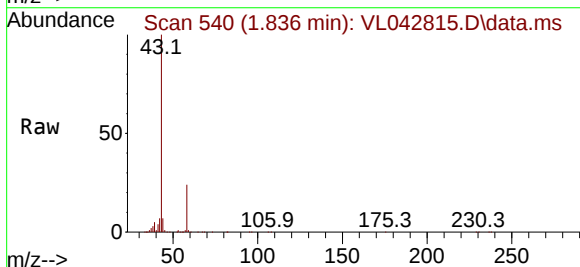
Instrument :
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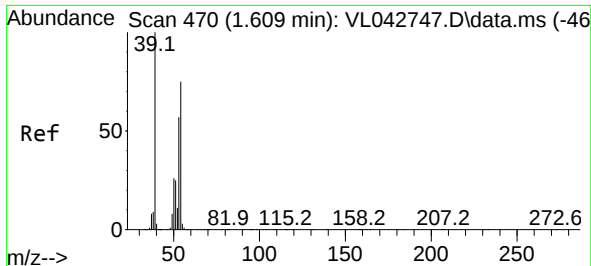
Tgt Ion: 45 Resp: 188043
 Ion Ratio Lower Upper
 45 100
 46 37.8 17.8 71.4



#15
 Acetone
 Concen: 6.343 ppbv
 RT: 1.836 min Scan# 540
 Delta R.T. 0.000 min
 Lab File: VL042815.D
 Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 133054
 Ion Ratio Lower Upper
 43 100
 58 24.3 19.8 29.8

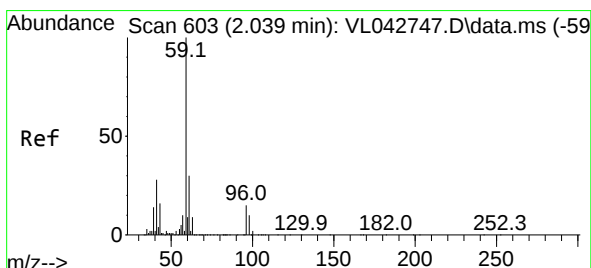
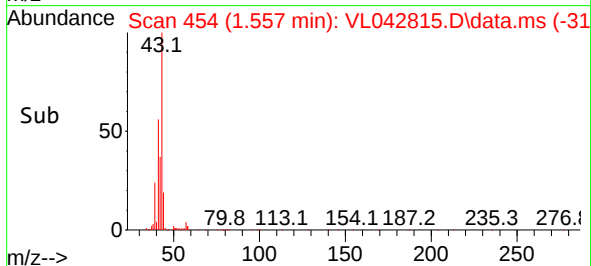
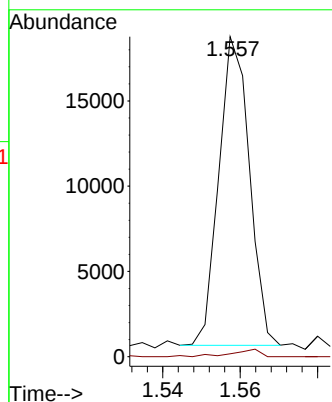
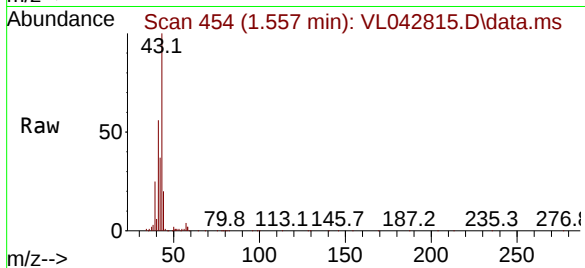




#16
1,3-Butadiene
Concen: 1.110 ppbv
RT: 1.557 min Scan# 41
Delta R.T. -0.052 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

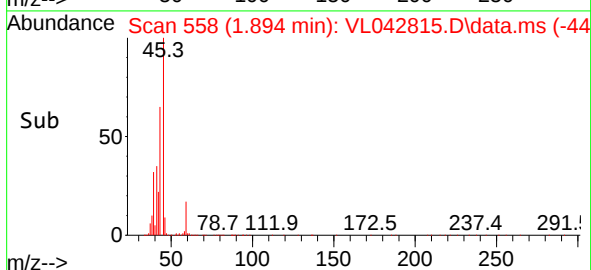
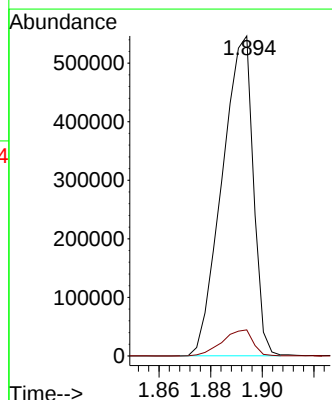
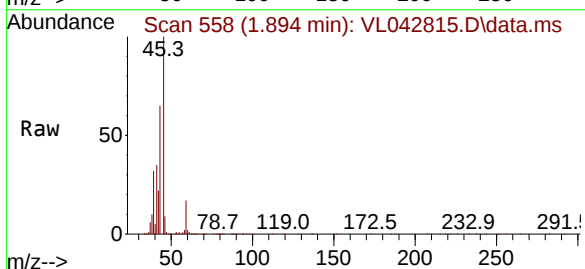
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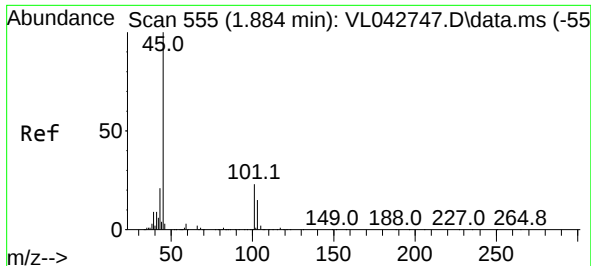
Tgt Ion: 39 Resp: 9934
Ion Ratio Lower Upper
39 100
54 2.3 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 24.178 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.145 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 59 Resp: 457380
Ion Ratio Lower Upper
59 100
57 8.2 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 380.618 ppbv

RT: 1.891 min Scan# 51

Delta R.T. 0.007 min

Lab File: VL042815.D

Acq: 04 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

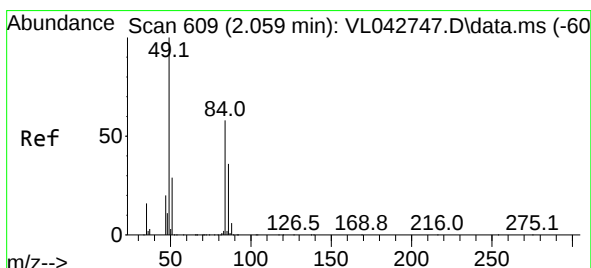
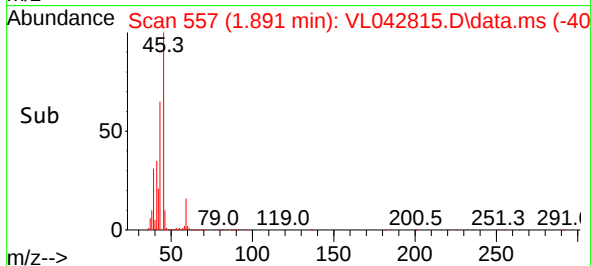
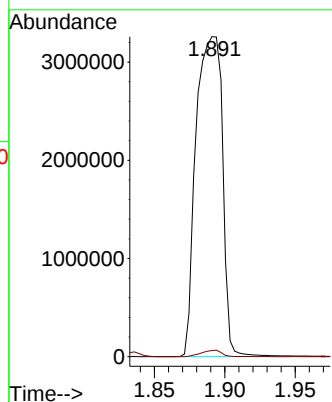
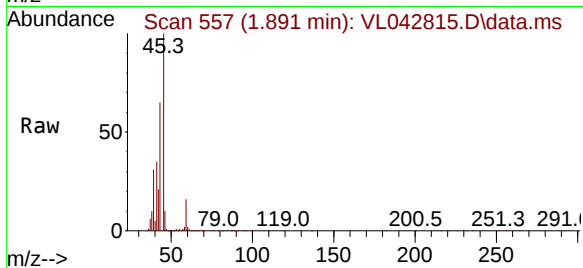
WONDER IA-5DL

Tgt Ion: 45 Resp: 4242568

Ion Ratio Lower Upper

45 100

58 1.6 30.0 45.0#



#20

Methylene Chloride

Concen: 0.685 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042815.D

Acq: 04 Aug 2025 20:49

Tgt Ion: 84 Resp: 4526

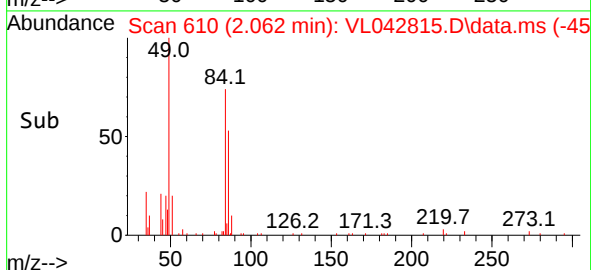
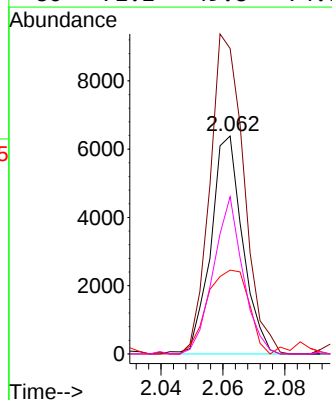
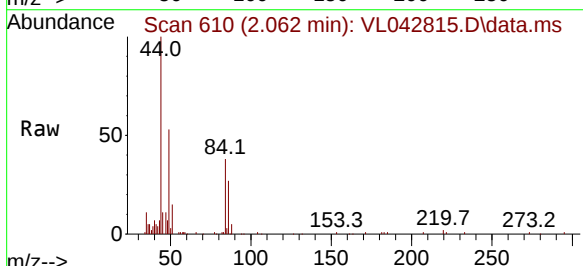
Ion Ratio Lower Upper

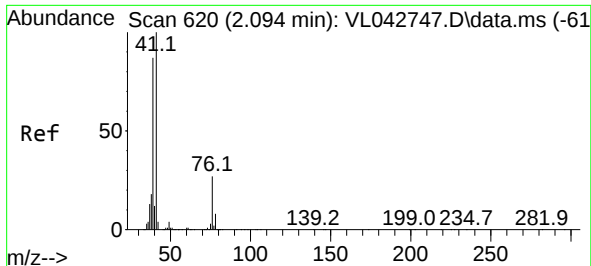
84 100

49 140.2 138.6 208.0

51 38.5 40.6 61.0#

86 72.2 49.8 74.8

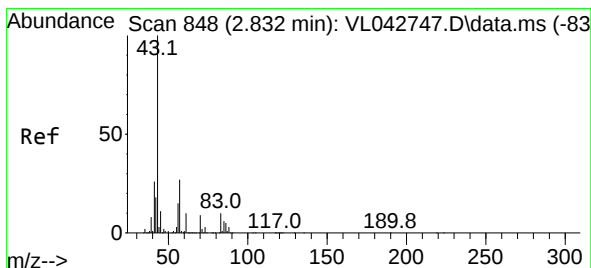
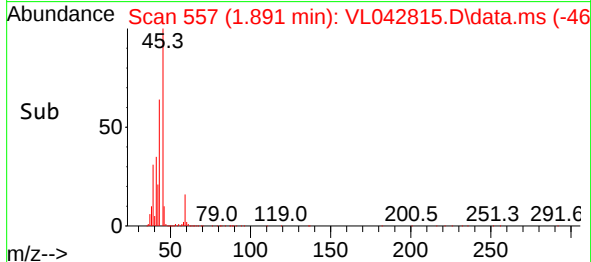
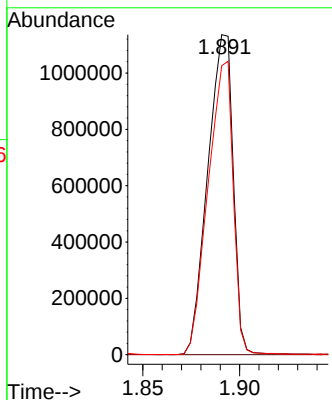
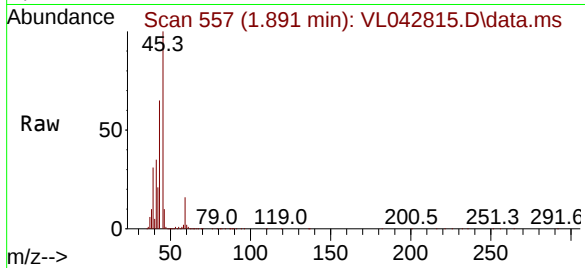




#21
Allyl Chloride
Concen: 80.042 ppbv
RT: 1.891 min Scan# 51
Delta R.T. -0.204 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

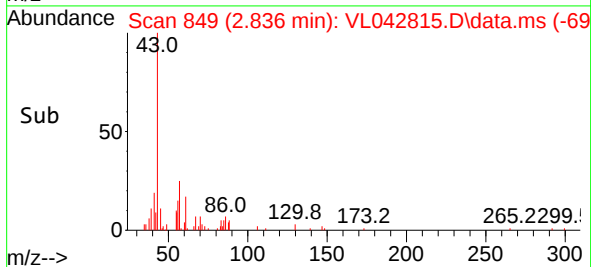
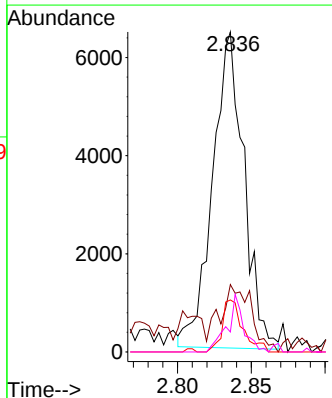
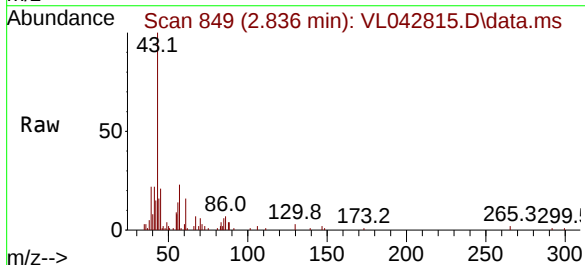
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

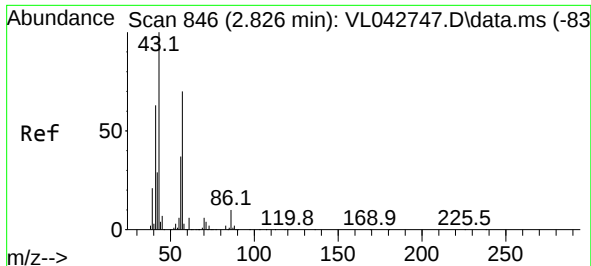
Tgt Ion: 41 Resp: 1034738
Ion Ratio Lower Upper
41 100
76 0.0 21.1 31.7#
39 90.5 68.3 102.5



#25
Ethyl Acetate
Concen: 0.205 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 9523
Ion Ratio Lower Upper
43 100
45 20.0 7.8 11.6#
61 11.1 6.7 10.1#
70 11.1 6.6 10.0#

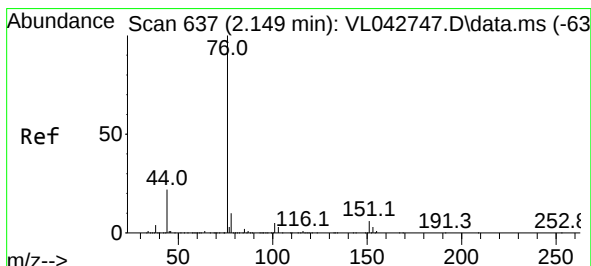
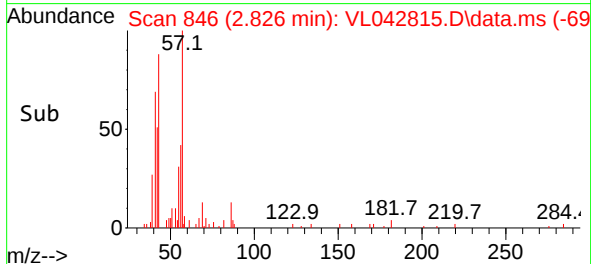
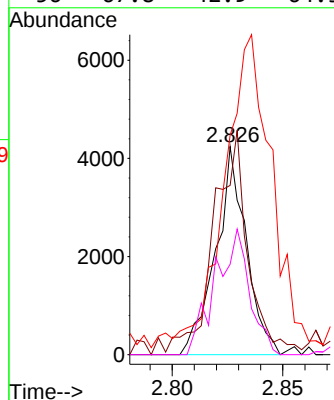
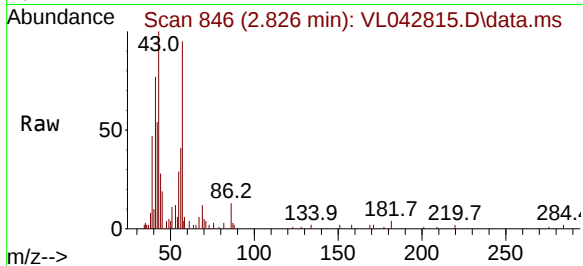




#26
Hexane
Concen: 0.200 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

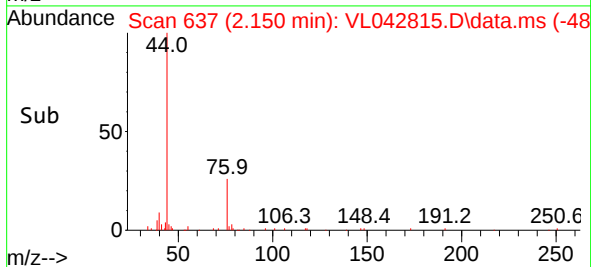
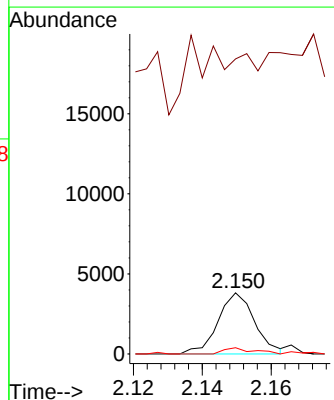
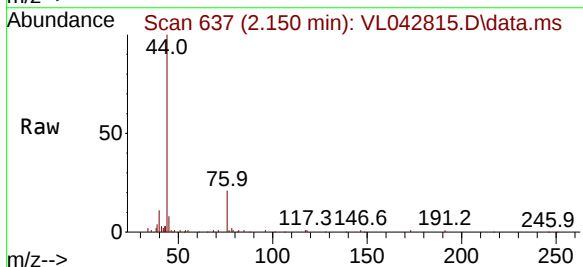
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

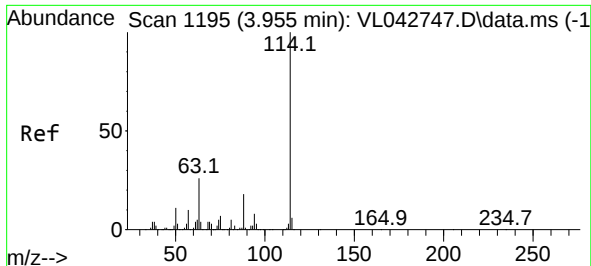
Tgt Ion:	57	Resp:	4065
Ion	Ratio	Lower	Upper
57	100		
41	120.2	75.4	113.2#
43	257.2	185.0	277.6
56	67.8	42.9	64.3#



#27
Carbon Disulfide
Concen: 0.162 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion:	76	Resp:	2818
Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	10.9	9.9	14.9

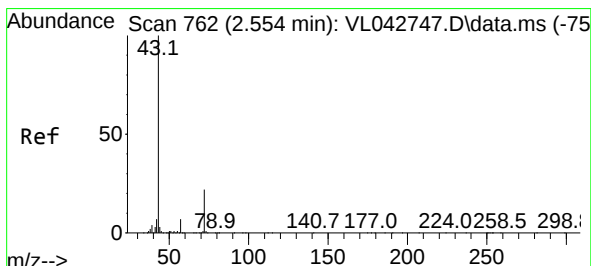
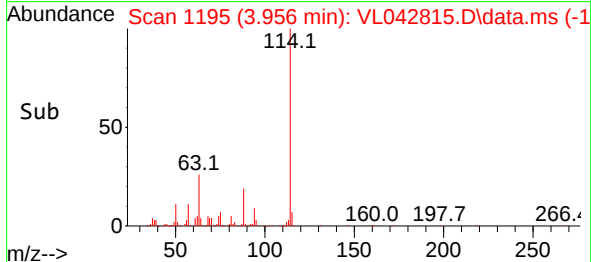
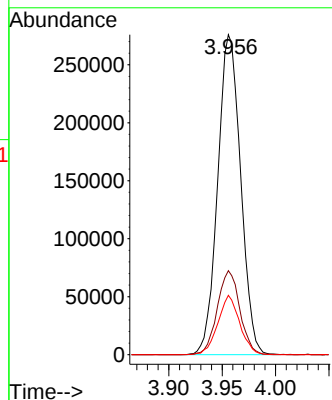
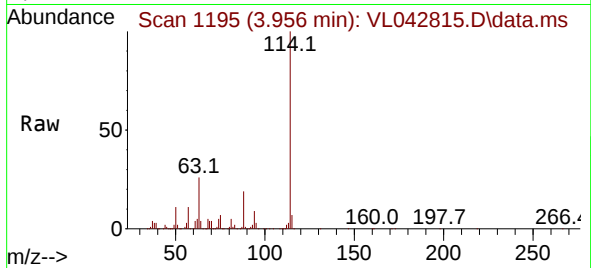




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

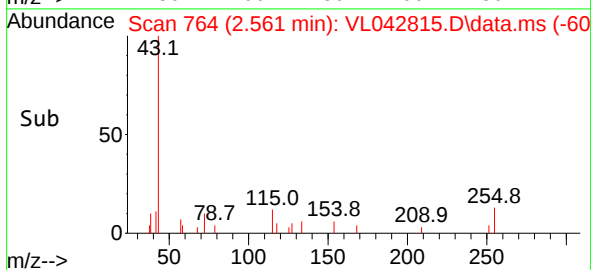
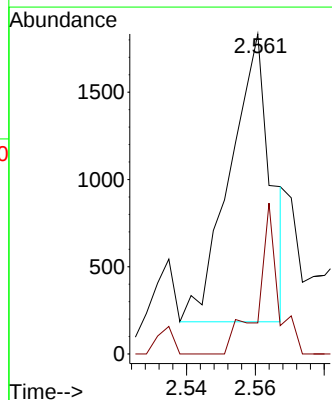
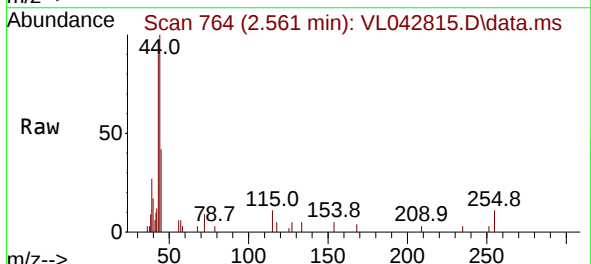
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

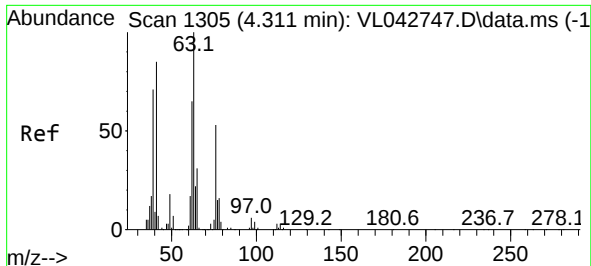
Tgt Ion:114 Resp: 412340
Ion Ratio Lower Upper
114 100
63 25.9 20.5 30.7
88 17.7 14.0 21.0



#34
2-Butanone
Concen: 0.047 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 43 Resp: 1369
Ion Ratio Lower Upper
43 100
72 31.6 17.4 26.0#





#39

1,2-Dichloropropane

Concen: 7.398 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042815.D

Acq: 04 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DL

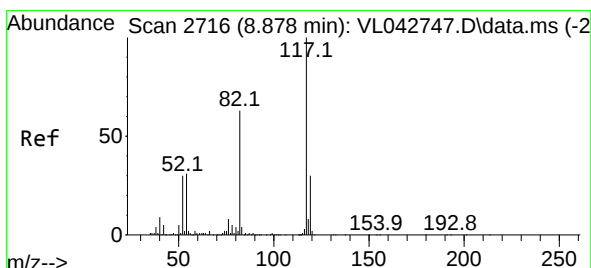
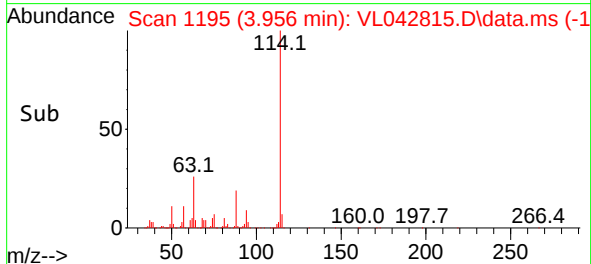
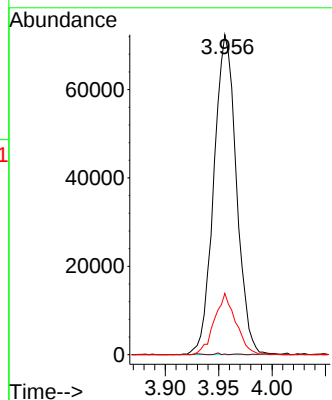
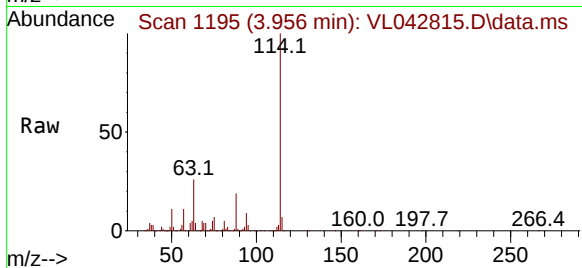
Tgt Ion: 63 Resp: 106714

Ion Ratio Lower Upper

63 100

41 0.2 68.2 102.4#

62 19.1 52.0 78.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. 0.000 min

Lab File: VL042815.D

Acq: 04 Aug 2025 20:49

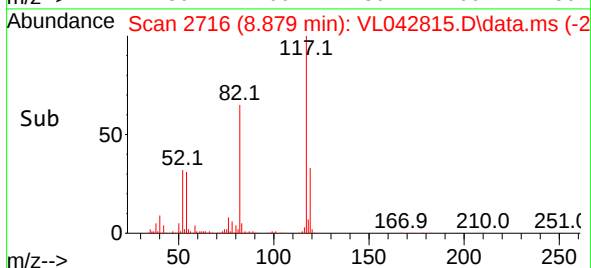
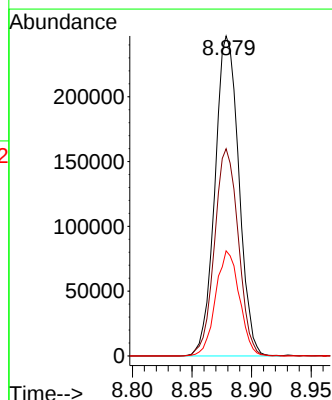
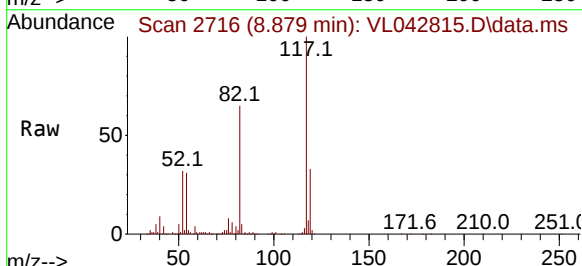
Tgt Ion: 117 Resp: 344266

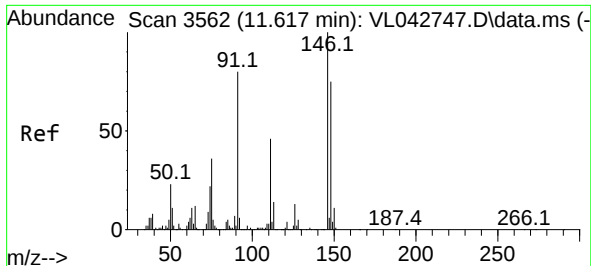
Ion Ratio Lower Upper

117 100

82 64.6 53.3 79.9

119 32.7 25.8 38.6

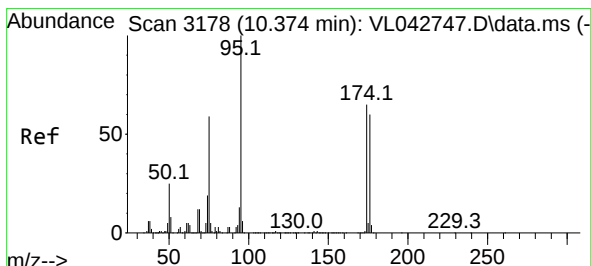
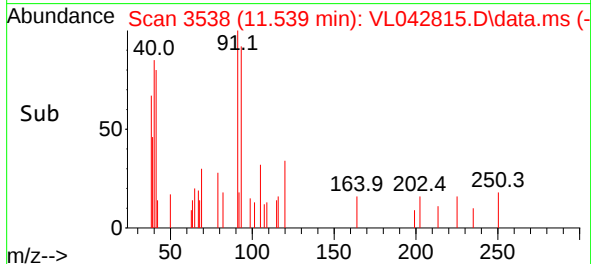
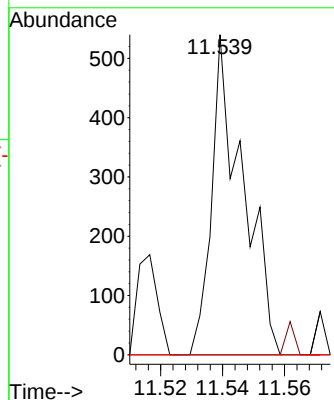
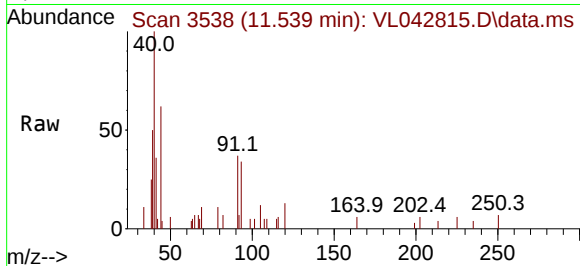




#66
Benzyl Chloride
Concen: 0.081 ppbv
RT: 11.539 min Scan# 31538
Delta R.T. -0.077 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

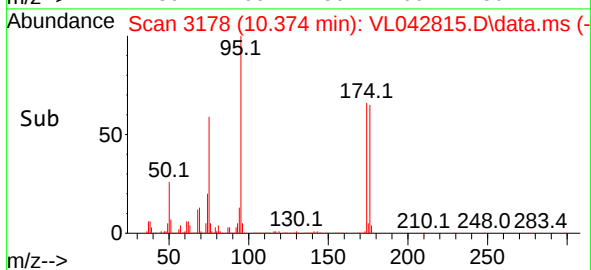
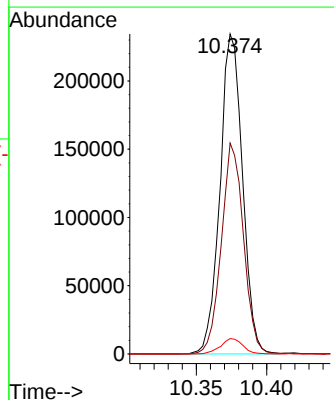
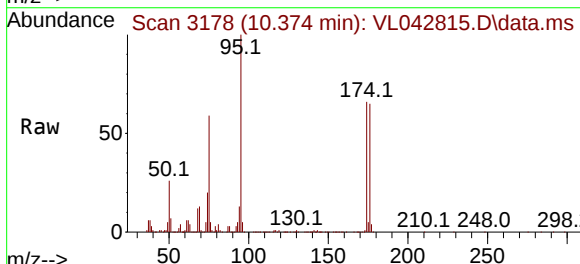
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

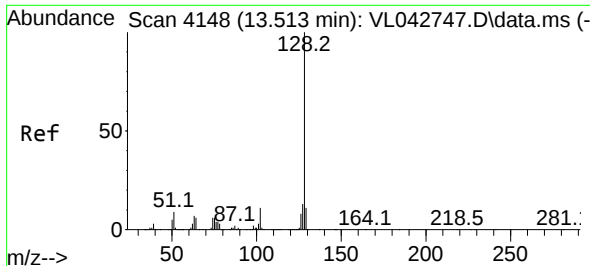
Tgt Ion: 91 Resp: 378
Ion Ratio Lower Upper
91 100
126 11.6 14.4 21.6#
128 0.0 5.2 7.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.584 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

Tgt Ion: 95 Resp: 261303
Ion Ratio Lower Upper
95 100
174 65.0 53.8 80.6
175 4.8 4.0 6.0

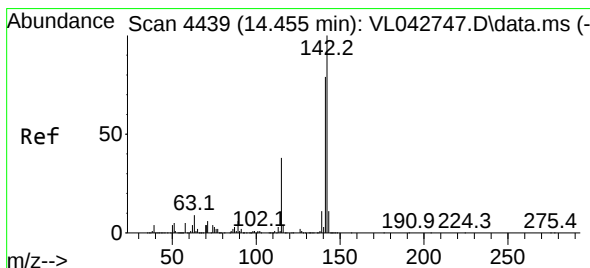
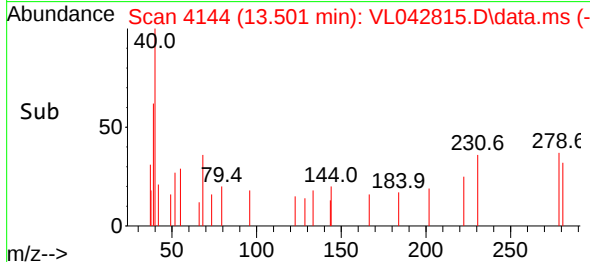
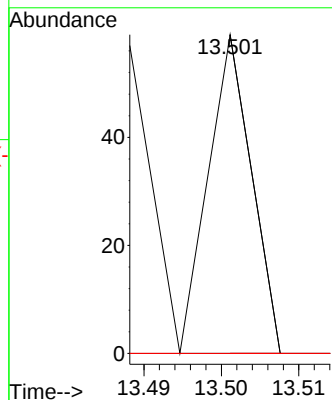
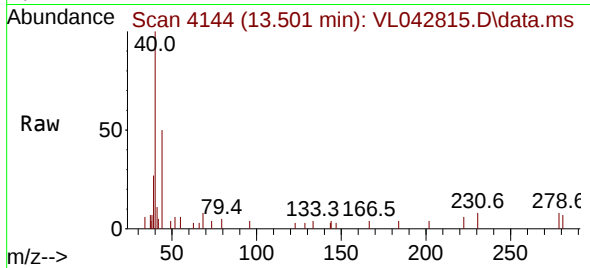




#79
Naphthalene
Concen: 0.435 ppbv
RT: 13.501 min Scan# 4144
Delta R.T. -0.013 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

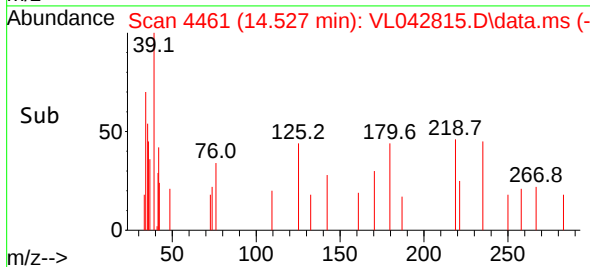
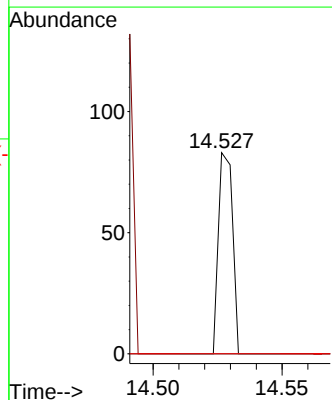
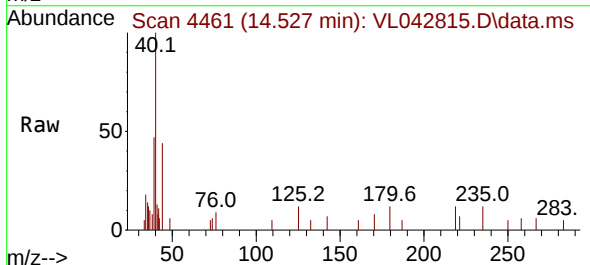
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DL

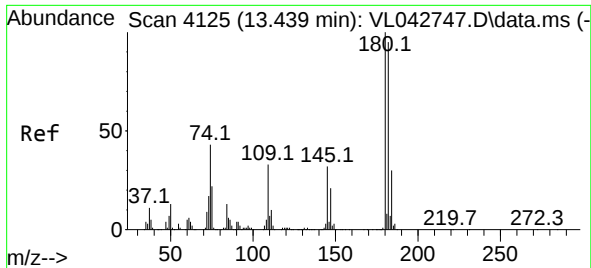
Tgt Ion:128 Resp: 11
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#



#80
Naphthalene,2-methyl-
Concen: 1.130 ppbv
RT: 14.527 min Scan# 4461
Delta R.T. 0.071 min
Lab File: VL042815.D
Acq: 04 Aug 2025 20:49

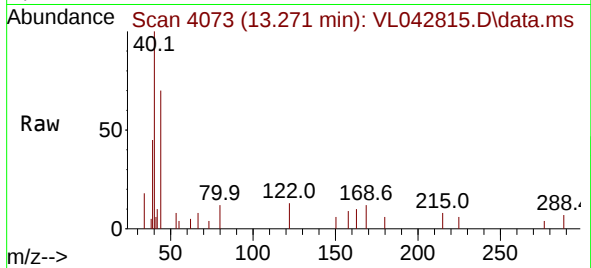
Tgt Ion:142 Resp: 31
Ion Ratio Lower Upper
142 100
141 135.5 65.8 98.8#
115 203.2 31.2 46.8#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.436 ppbv
 RT: 13.271 min Scan# 40
 Delta R.T. -0.168 min
 Lab File: VL042815.D
 Acq: 04 Aug 2025 20:49

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5DL



Tgt Ion:180 Resp: 27
 Ion Ratio Lower Upper
 180 100
 182 96.3 76.2 114.2
 184 255.6 24.8 37.2#

