

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042814.D
 Acq On : 04 Aug 2025 20:15
 Operator : SY/MD
 Sample : Q2750-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5DUP

Quant Time: Aug 05 01:12:12 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	161216	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	428986	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	375205	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	323539	10.888	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	12445	0.584	ppbv	89
3) Chlorodifluoromethane	1.473	51	1470625	52.963	ppbv #	87
4) Chloromethane	1.531	50	5419	0.628	ppbv	89
5) Vinyl Chloride	1.486	62	1255	0.147	ppbv #	44
6) Bromomethane	1.654	94	76	0.023	ppbv #	68
7) Chloroethane	1.654	64	257	0.078	ppbv #	70
8) Dichlorotetrafluoroethane	1.496	85	12445	0.710	ppbv #	21
9) Propene	1.557	41	441109	43.710	ppbv	98
10) Heptane	4.982	43	1611	0.059	ppbv #	27
11) Trichlorofluoromethane	1.878	101	4709	0.214	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.137	101	1342	0.080	ppbv	86
13) Ethanol	1.729	45	4021580	5471.839	ppbv	92
15) Acetone	1.835	43	2026354	91.025	ppbv #	84
16) 1,3-Butadiene	1.557	39	210764	22.196	ppbv #	16
17) tert-Butyl alcohol	1.984	59	7431535	370.142	ppbv	96
19) Isopropyl Alcohol	1.984	45	24131679	2039.875	ppbv #	38
20) Methylene Chloride	2.062	84	52828	7.530	ppbv	94
21) Allyl Chloride	1.984	41	12177895	887.600	ppbv #	79
23) Vinyl Acetate	2.567	43	31136	1.154	ppbv #	90
24) 1,1-Dichloroethane	2.784	63	976	0.059	ppbv #	87
25) Ethyl Acetate	2.842	43	276179	5.605	ppbv #	82
26) Hexane	2.826	57	111667	5.166	ppbv	84
27) Carbon Disulfide	2.146	76	47924	2.590	ppbv #	66
28) Methyl tert-Butyl Ether	2.441	73	322	0.032	ppbv #	50
29) Chloroform	2.852	83	17868	0.535	ppbv	98
30) Cyclohexane	3.852	84	801	0.044	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	22549	1.015	ppbv #	23
34) 2-Butanone	2.567	43	31136	1.025	ppbv	99
35) Carbon Tetrachloride	3.758	117	1251	0.039	ppbv #	59
36) Benzene	3.658	78	10752	0.264	ppbv #	93
39) 1,2-Dichloropropane	3.955	63	110352	7.353	ppbv #	20
41) Tetrahydrofuran	3.069	42	1354	0.088	ppbv #	53
42) Bromodichloromethane	4.483	83	921	0.029	ppbv #	80
43) Methyl Methacrylate	4.878	69	997	0.069	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	2329	0.035	ppbv #	7
53) Toluene	6.933	91	27249	0.624	ppbv	97
58) Ethyl Benzene	9.357	91	3436	0.058	ppbv #	80
59) m/p-Xylene	9.548	91	2404	0.051	ppbv #	30
60) o-Xylene	9.963	91	2831	0.060	ppbv	98
61) Styrene	9.872	104	2187	0.110	ppbv #	50
65) tert-Butylbenzene	11.542	119	3723	0.060	ppbv #	1
66) Benzyl Chloride	11.542	91	12506	2.457	ppbv #	66
69) p-Isopropyltoluene	11.924	119	38819	0.540	ppbv	97

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

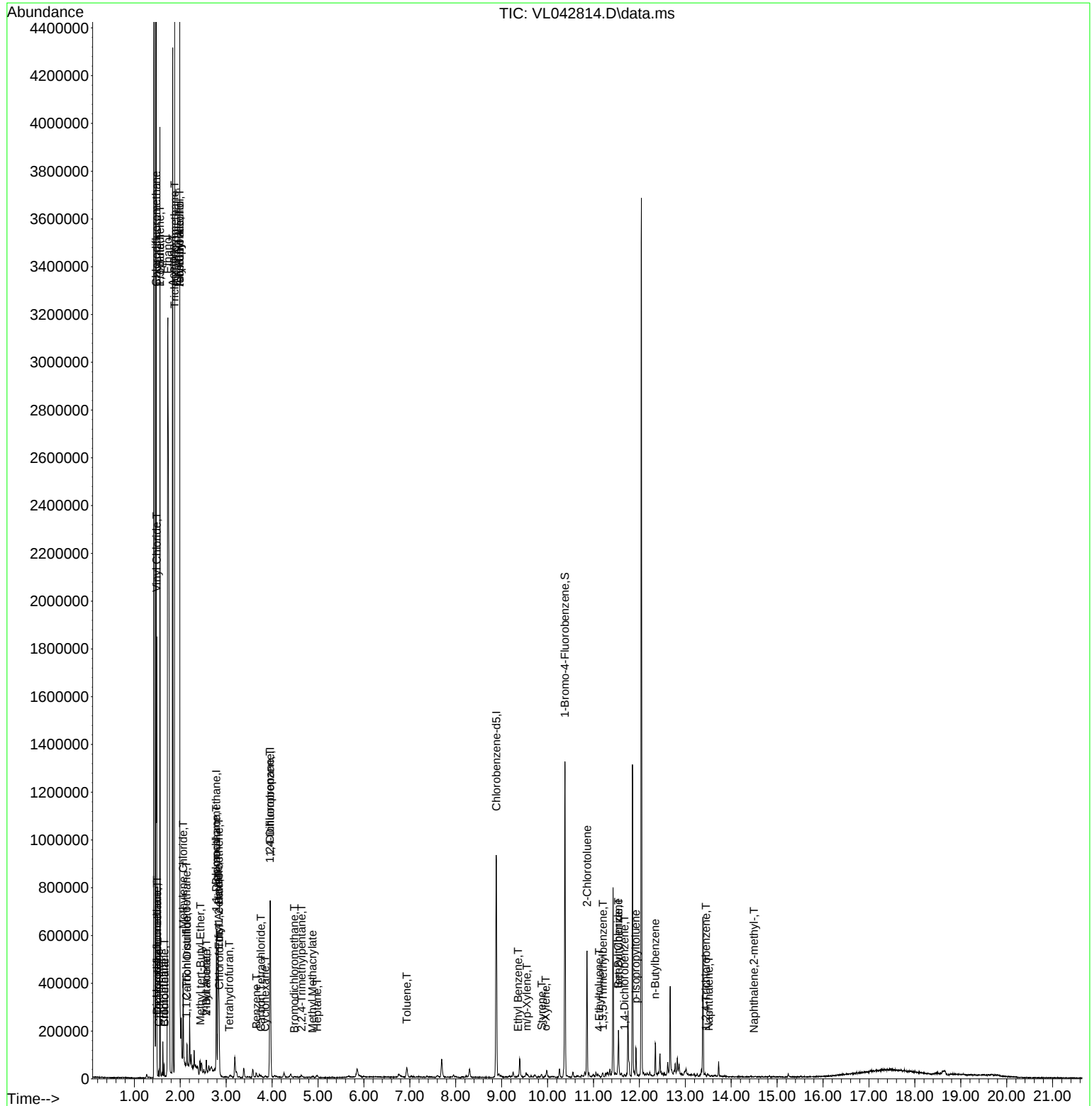
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	12.345	91	14675	0.211	ppbv #	86
71) 2-Chlorotoluene	10.859	91	63332	1.183	ppbv #	45
72) 4-Ethyltoluene	11.125	105	1995	0.035	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.209	105	1052	0.023	ppbv #	79
76) 1,4-Dichlorobenzene	11.678	146	781	0.022	ppbv #	1
79) Naphthalene	13.513	128	2069	0.471	ppbv #	87
80) Naphthalene,2-methyl-	14.497	142	57	1.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	13.449	180	37	0.436	ppbv #	1

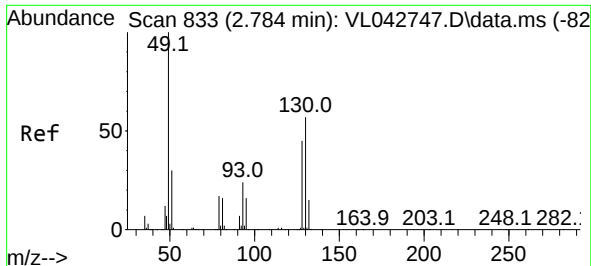
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 05 01:12:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
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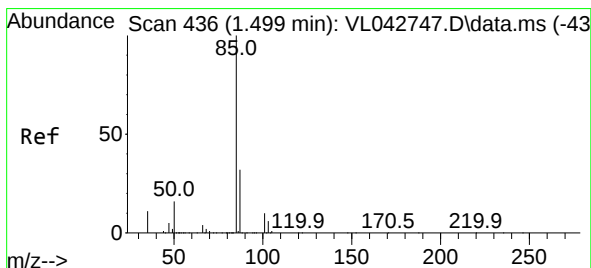
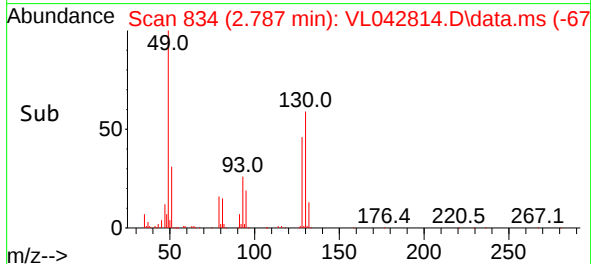
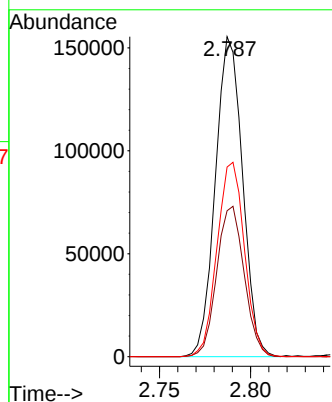
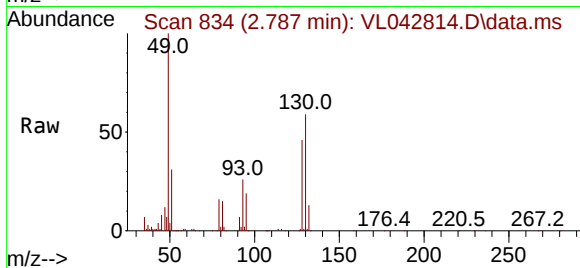




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

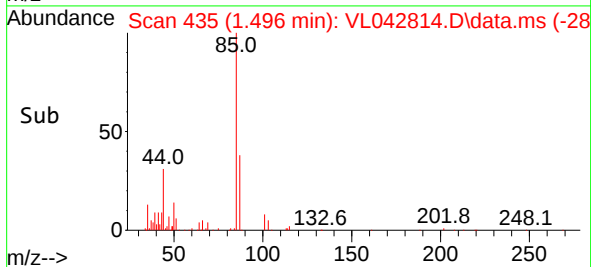
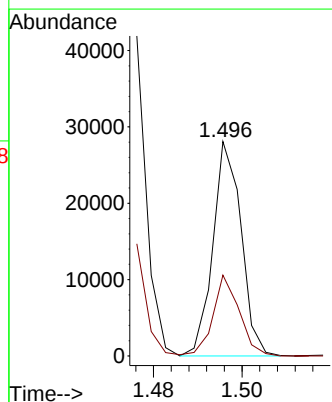
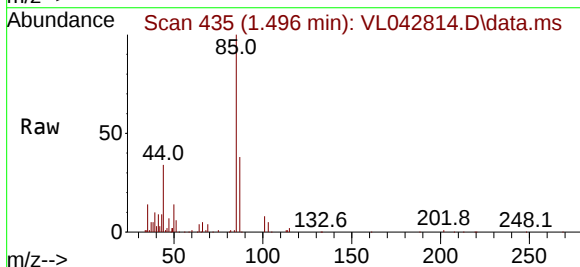
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

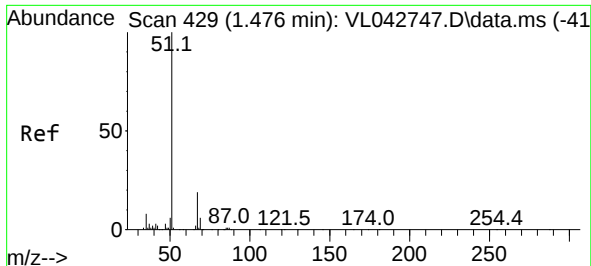
Tgt Ion: 49 Resp: 161216
Ion Ratio Lower Upper
49 100
128 47.3 23.6 71.0
130 61.4 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.584 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 85 Resp: 12445
Ion Ratio Lower Upper
85 100
87 37.7 25.4 38.2

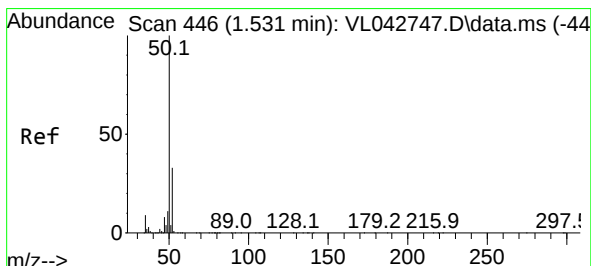
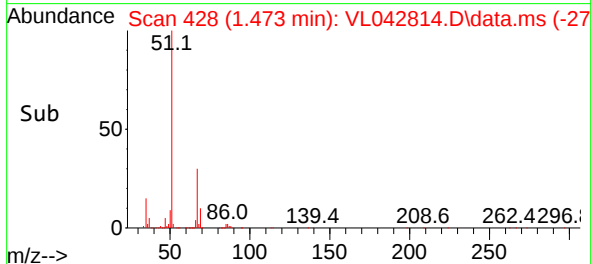
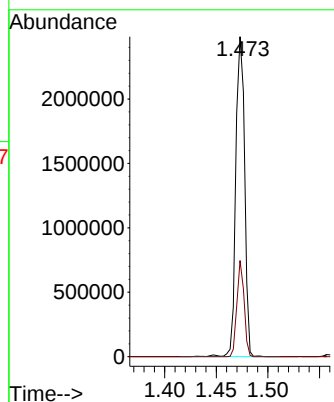
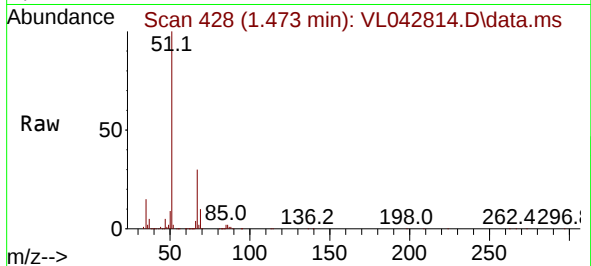




#3
Chlorodifluoromethane
Concen: 52.963 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

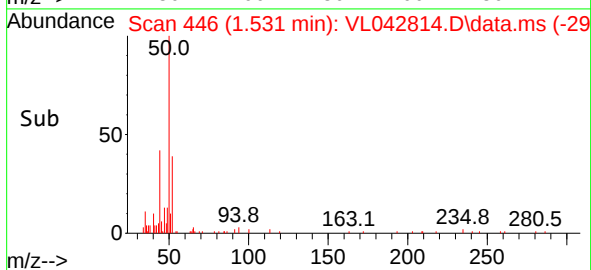
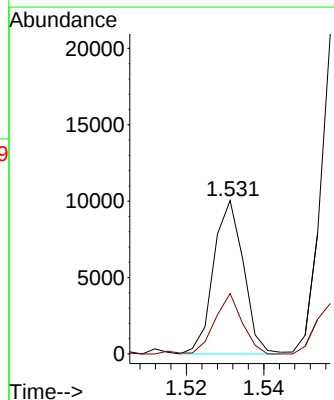
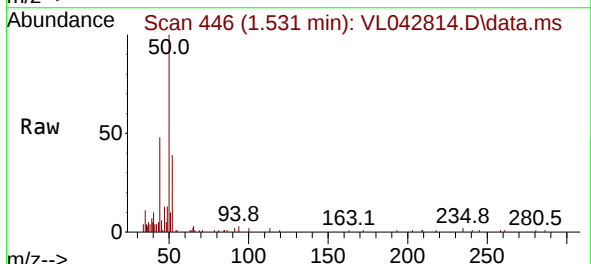
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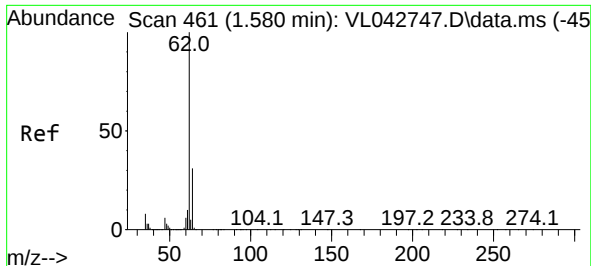
Tgt Ion: 51 Resp: 1470625
Ion Ratio Lower Upper
51 100
67 24.5 15.0 22.6#



#4
Chloromethane
Concen: 0.628 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 50 Resp: 5419
Ion Ratio Lower Upper
50 100
52 39.4 26.6 40.0

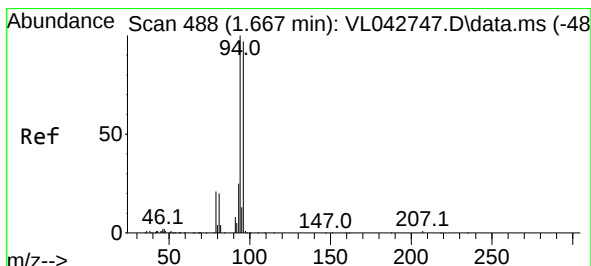
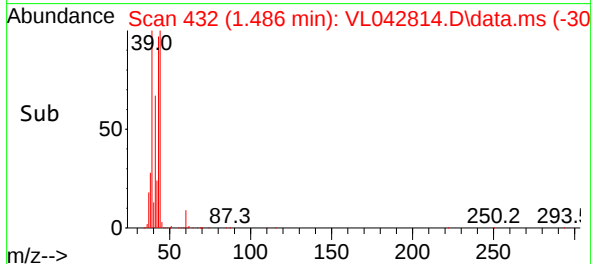
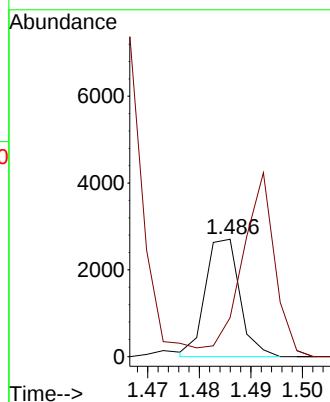
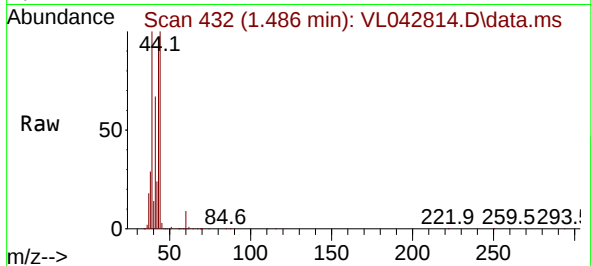




#5
 Vinyl Chloride
 Concen: 0.147 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.094 min
 Lab File: VL042814.D
 Acq: 04 Aug 2025 20:15

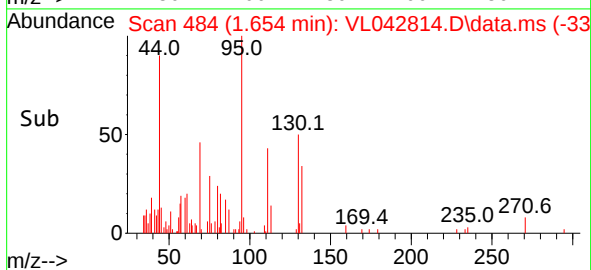
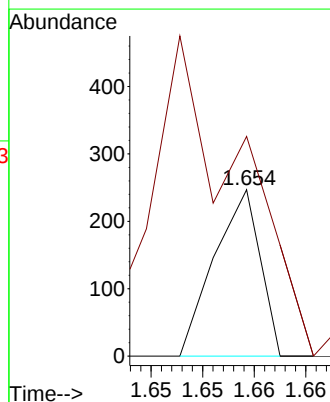
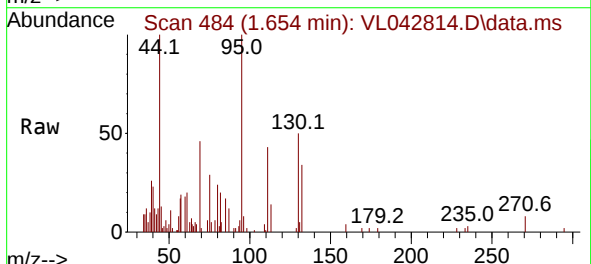
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5DUP

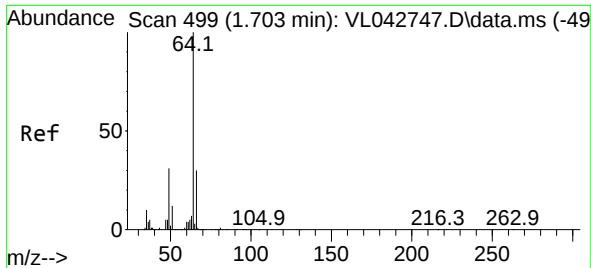
Tgt Ion: 62 Resp: 1255
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.5 36.7#



#6
 Bromomethane
 Concen: 0.023 ppbv
 RT: 1.654 min Scan# 484
 Delta R.T. -0.013 min
 Lab File: VL042814.D
 Acq: 04 Aug 2025 20:15

Tgt Ion: 94 Resp: 76
 Ion Ratio Lower Upper
 94 100
 96 65.2 77.6 116.4#

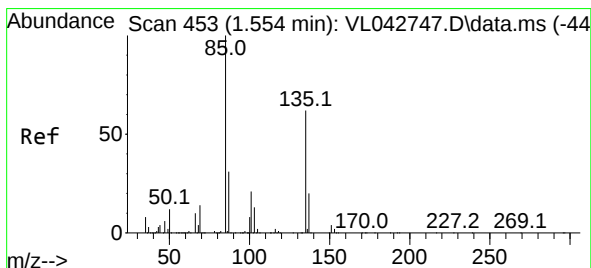
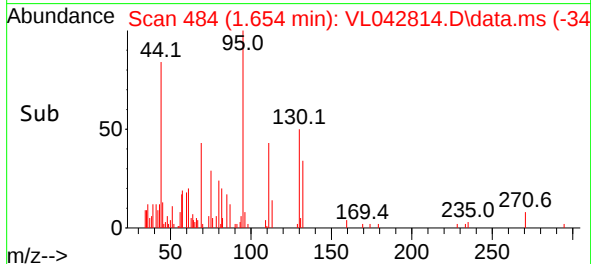
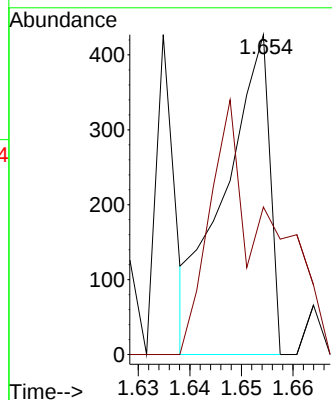
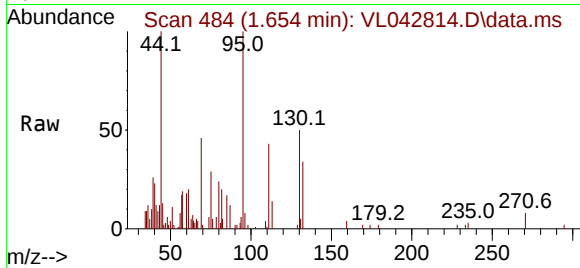




#7
Chloroethane
Concen: 0.078 ppbv
RT: 1.654 min Scan# 41
Delta R.T. -0.048 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

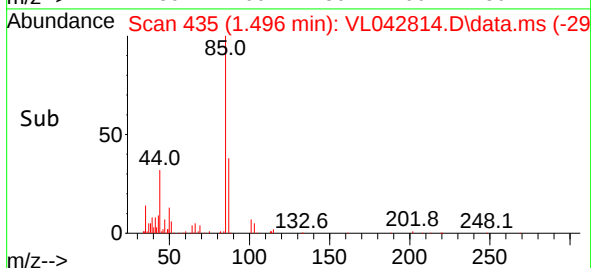
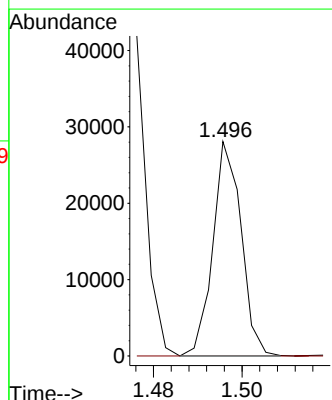
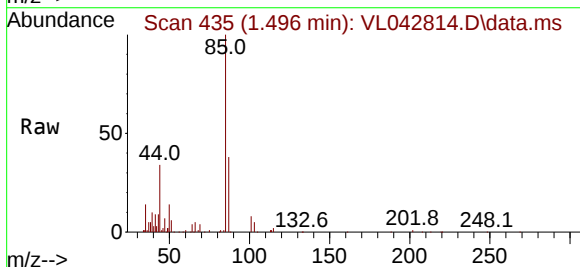
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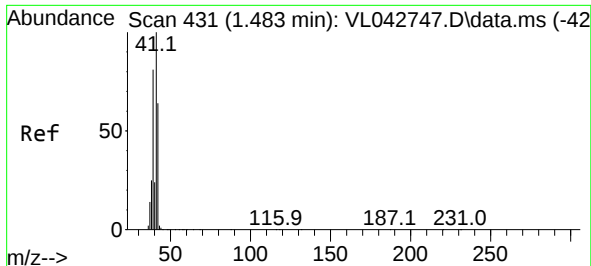
Tgt Ion: 64 Resp: 257
Ion Ratio Lower Upper
64 100
66 46.1 24.1 36.1#



#8
Dichlorotetrafluoroethane
Concen: 0.710 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 85 Resp: 12445
Ion Ratio Lower Upper
85 100
135 1.9 50.6 76.0#





#9

Propene

Concen: 43.710 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.074 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

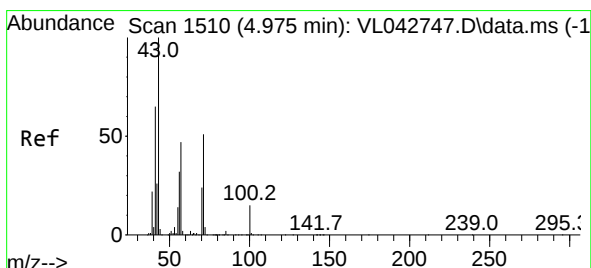
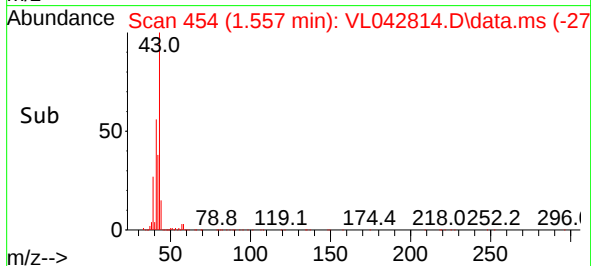
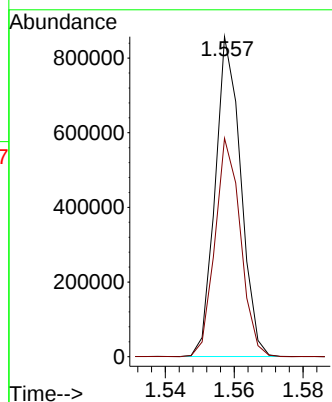
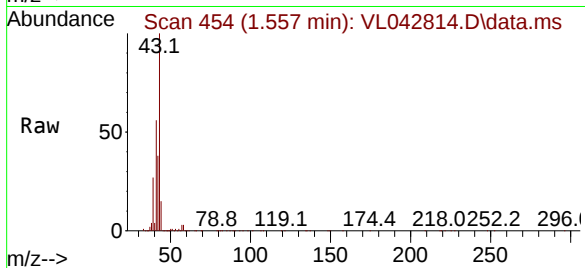
WONDER IA-5DUP

Tgt Ion: 41 Resp: 441109

Ion Ratio Lower Upper

41 100

42 68.3 53.2 79.8



#10

Heptane

Concen: 0.059 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.007 min

Lab File: VL042814.D

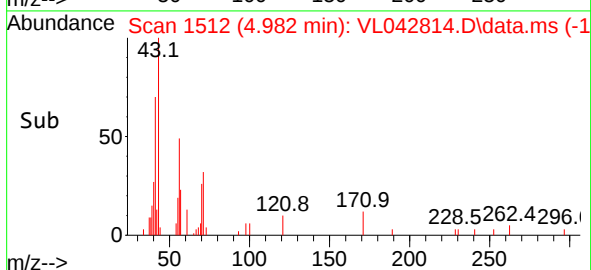
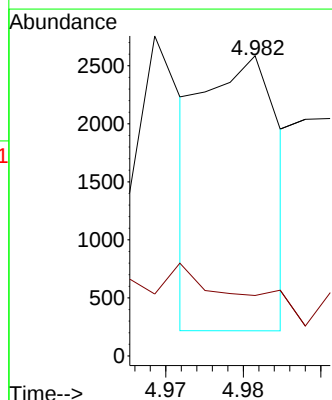
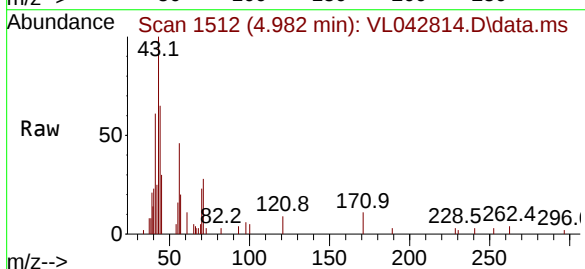
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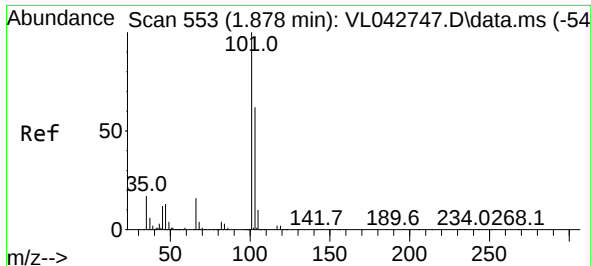
Tgt Ion: 43 Resp: 1611

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

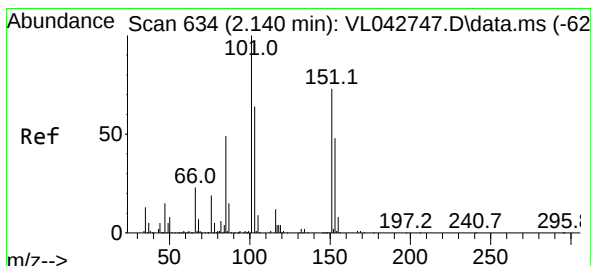
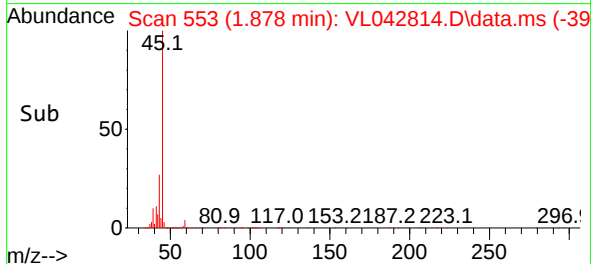
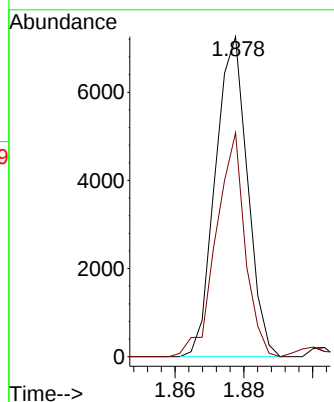
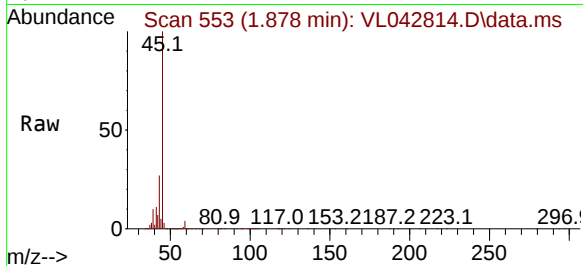




#11
 Trichlorofluoromethane
 Concen: 0.214 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042814.D
 Acq: 04 Aug 2025 20:15

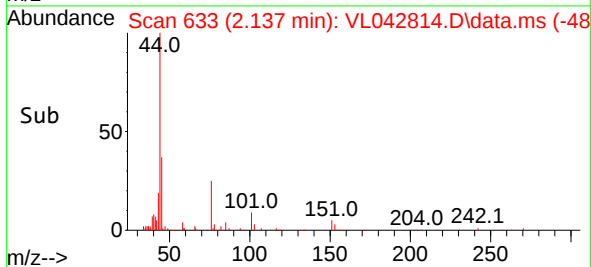
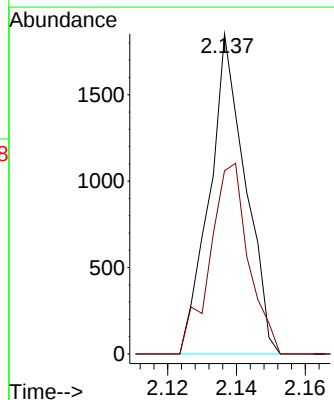
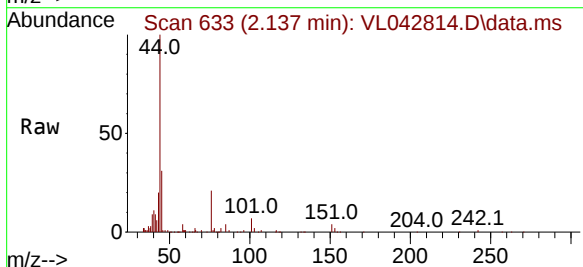
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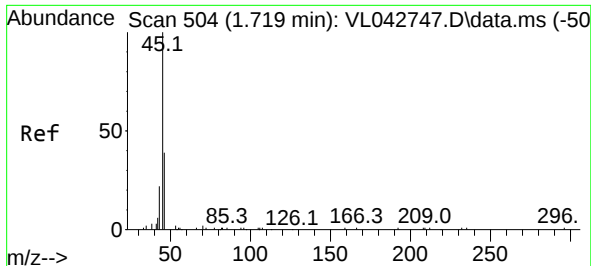
Tgt Ion:101 Resp: 4709
 Ion Ratio Lower Upper
 101 100
 103 70.0 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.080 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. -0.003 min
 Lab File: VL042814.D
 Acq: 04 Aug 2025 20:15

Tgt Ion:101 Resp: 1342
 Ion Ratio Lower Upper
 101 100
 151 64.0 60.5 90.7

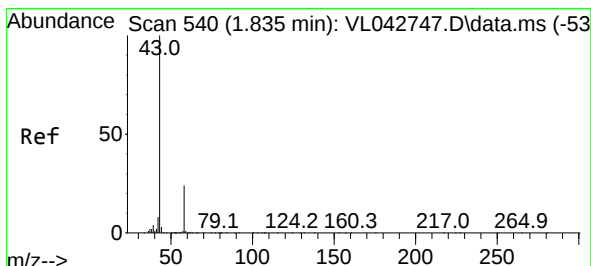
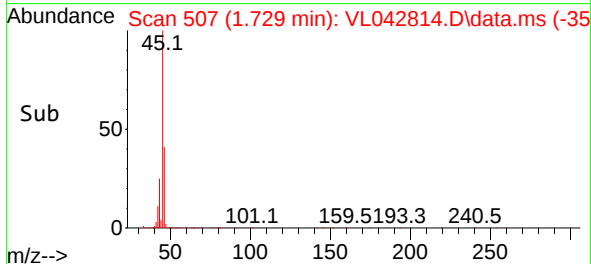
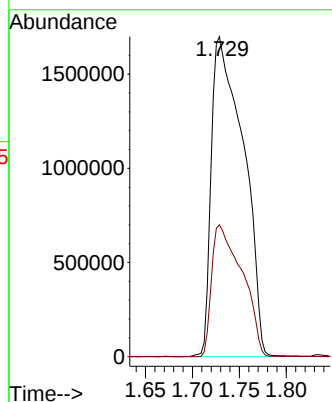
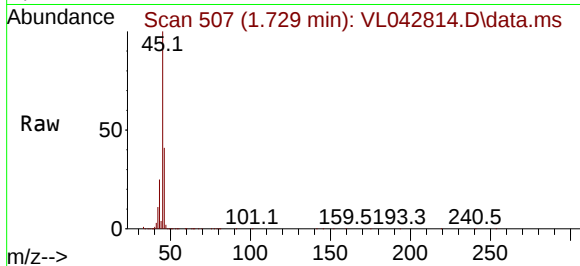




#13
Ethanol
Concen: 5471.839 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

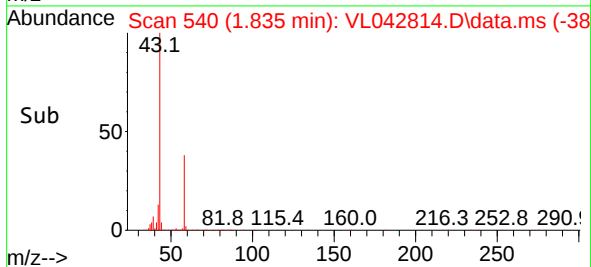
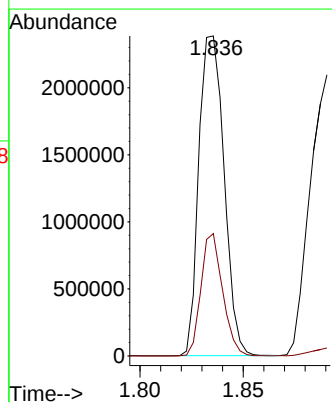
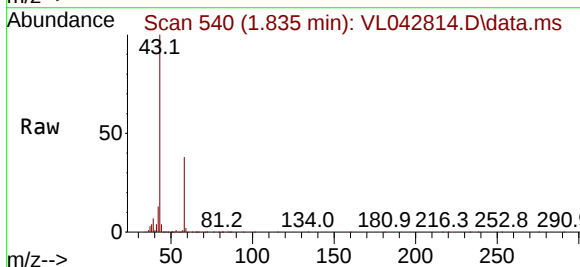
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

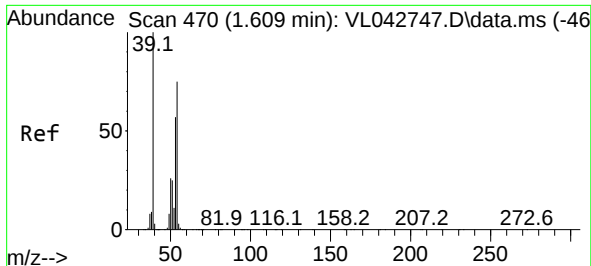
Tgt Ion: 45 Resp: 4021580
Ion Ratio Lower Upper
45 100
46 39.4 17.8 71.4



#15
Acetone
Concen: 91.025 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 2026354
Ion Ratio Lower Upper
43 100
58 32.9 19.8 29.8#

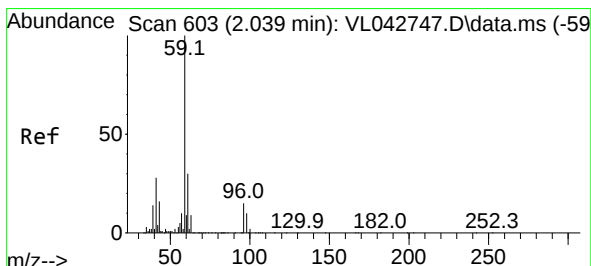
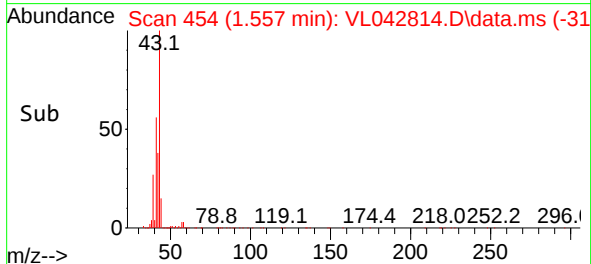
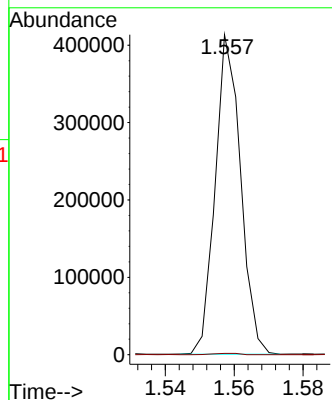
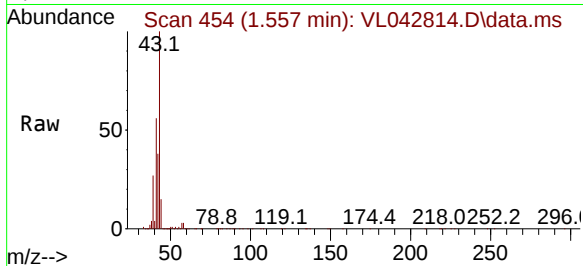




#16
1,3-Butadiene
Concen: 22.196 ppbv
RT: 1.557 min Scan# 41
Delta R.T. -0.052 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

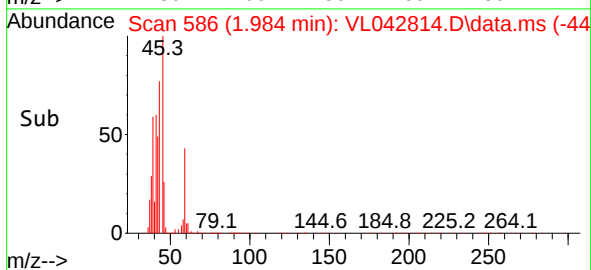
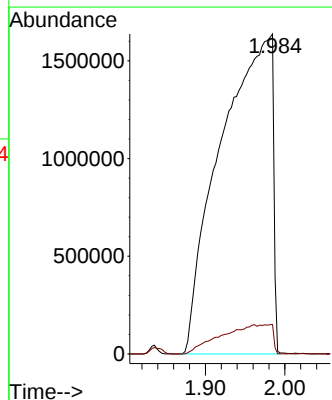
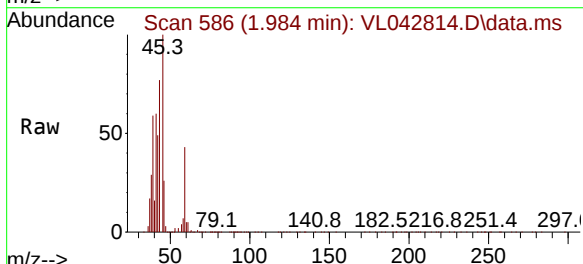
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

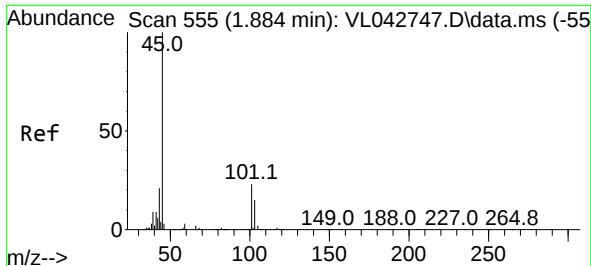
Tgt Ion: 39 Resp: 210764
Ion Ratio Lower Upper
39 100
54 0.5 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 370.142 ppbv
RT: 1.984 min Scan# 586
Delta R.T. -0.055 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 59 Resp: 7431535
Ion Ratio Lower Upper
59 100
57 9.0 8.3 12.5

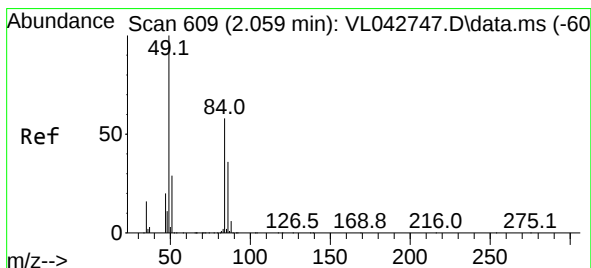
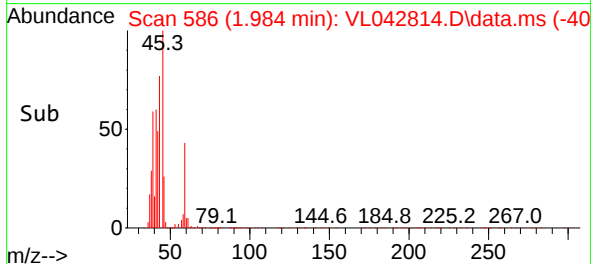
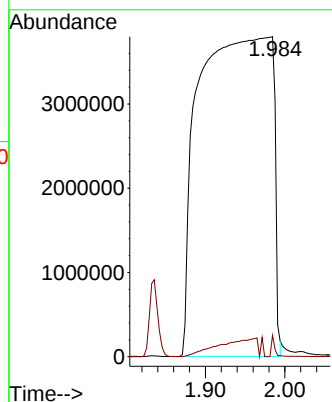
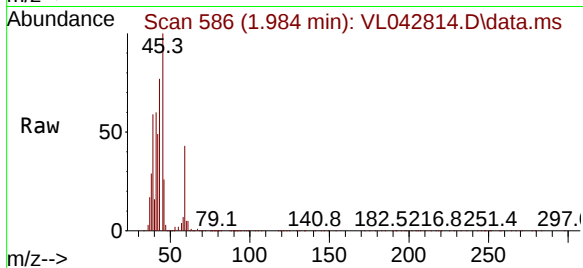




#19
Isopropyl Alcohol
Concen: 2039.875 ppbv
RT: 1.984 min Scan# 51
Delta R.T. 0.100 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

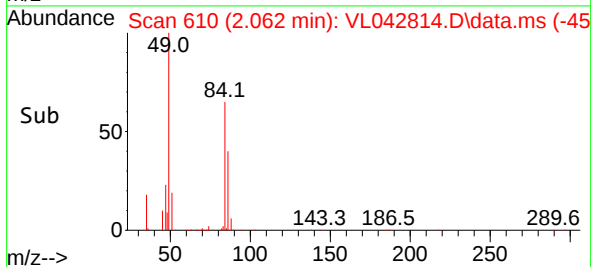
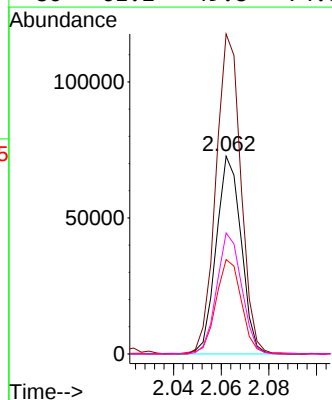
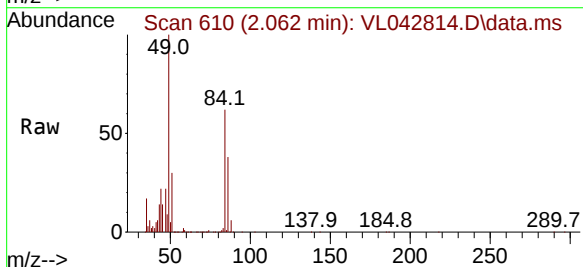
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

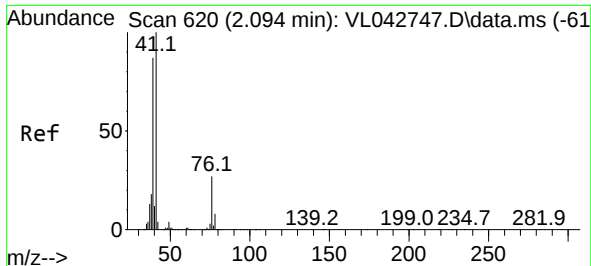
Tgt Ion: 45 Resp:24131679
Ion Ratio Lower Upper
45 100
58 0.4 30.0 45.0#



#20
Methylene Chloride
Concen: 7.530 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 84 Resp: 52828
Ion Ratio Lower Upper
84 100
49 161.7 138.6 208.0
51 47.6 40.6 61.0
86 61.2 49.8 74.8

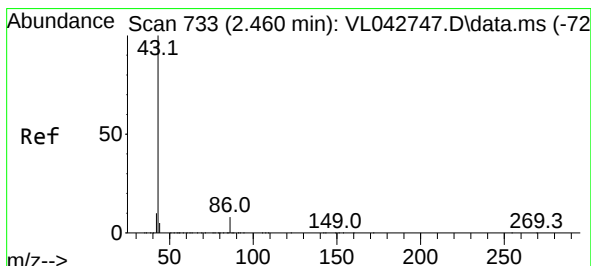
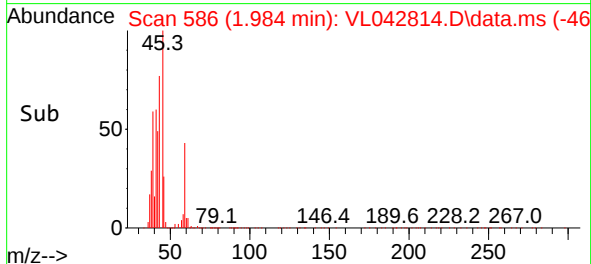
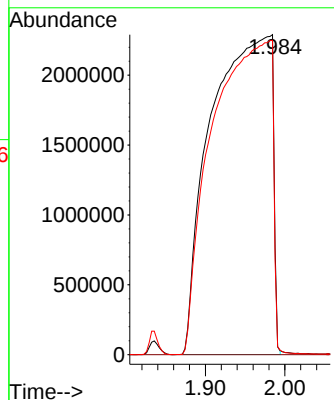
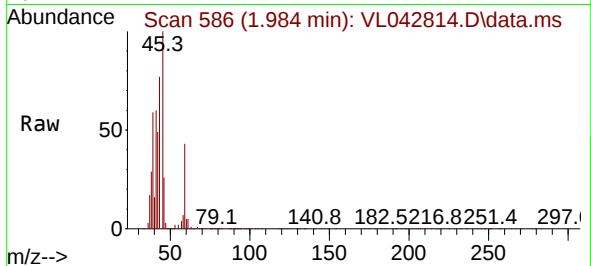




#21
 Allyl Chloride
 Concen: 887.600 ppbv
 RT: 1.984 min Scan# 51
 Delta R.T. -0.110 min
 Lab File: VL042814.D
 Acq: 04 Aug 2025 20:15

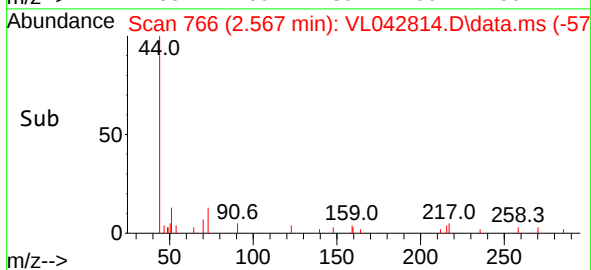
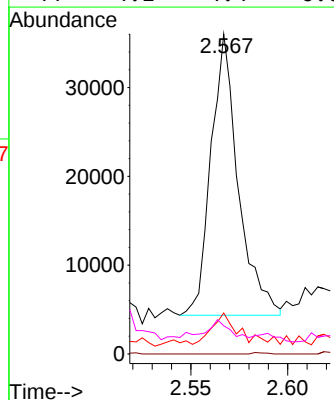
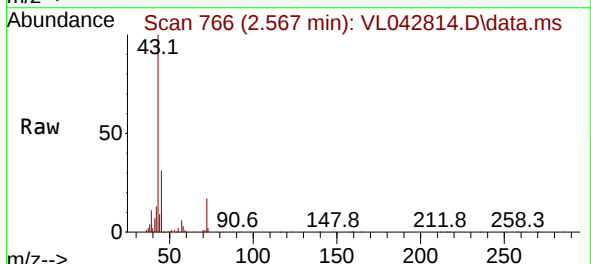
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5DUP

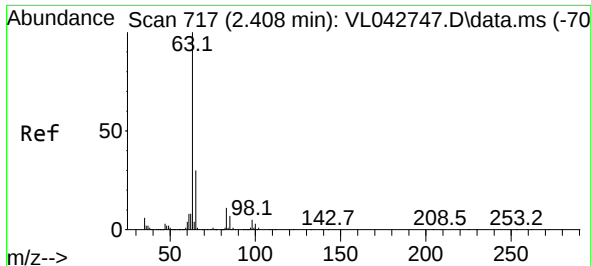
Tgt Ion: 41 Resp:12177895
 Ion Ratio Lower Upper
 41 100
 76 0.4 21.1 31.7#
 39 96.6 68.3 102.5



#23
 Vinyl Acetate
 Concen: 1.154 ppbv
 RT: 2.567 min Scan# 766
 Delta R.T. 0.107 min
 Lab File: VL042814.D
 Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 31136
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.1 9.1#
 42 11.1 7.8 11.8
 44 4.1 4.4 6.6#

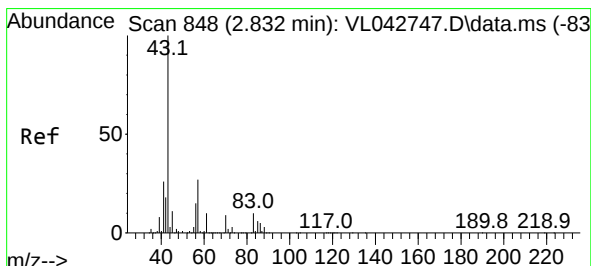
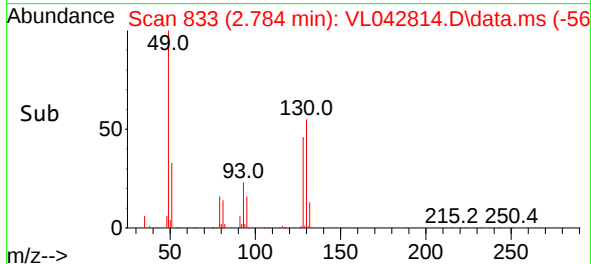
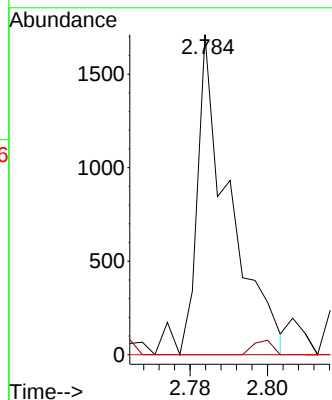
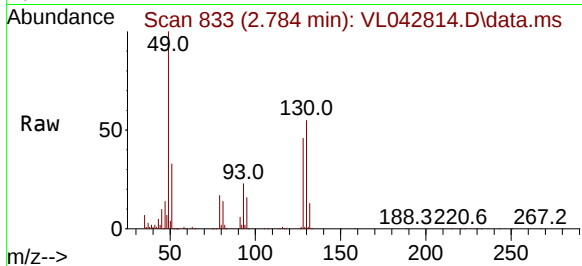




#24
1,1-Dichloroethane
Concen: 0.059 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.376 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

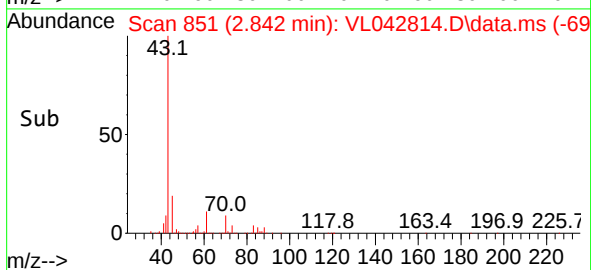
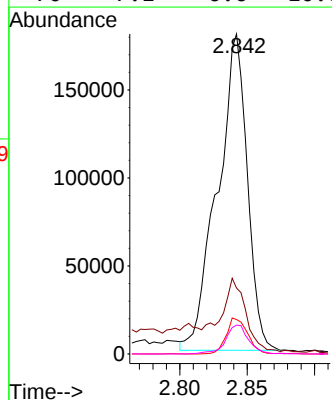
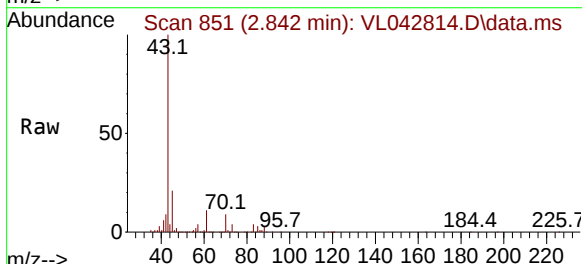
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

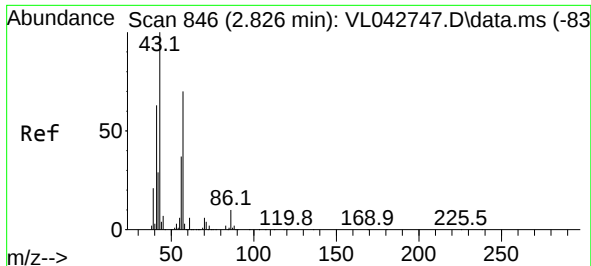
Tgt Ion: 63	Resp:	976
Ion Ratio	Lower	Upper
63	100	
98	0.0	2.5 7.4#
100	0.0	1.6 4.8#



#25
Ethyl Acetate
Concen: 5.605 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43	Resp:	276179
Ion Ratio	Lower	Upper
43	100	
45	26.6	7.8 11.6#
61	8.3	6.7 10.1
70	7.1	6.6 10.0



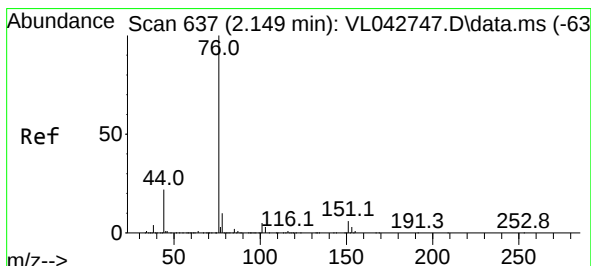
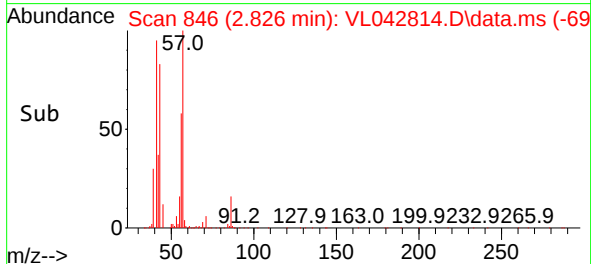
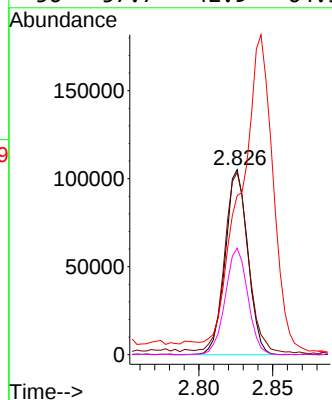
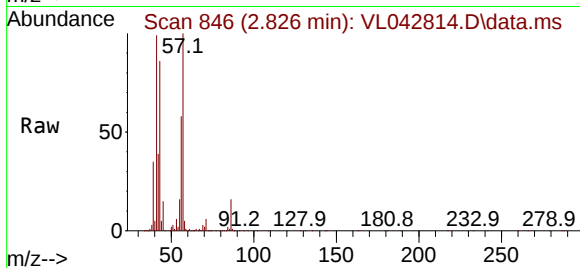


#26
Hexane
Concen: 5.166 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

Tgt Ion: 57 Resp: 111667

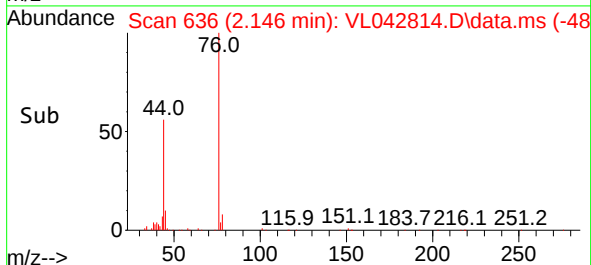
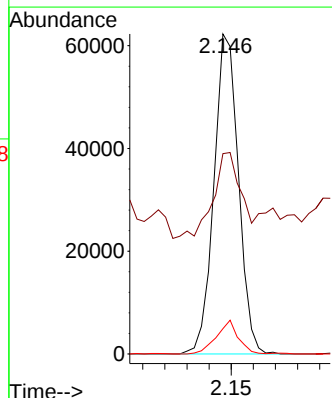
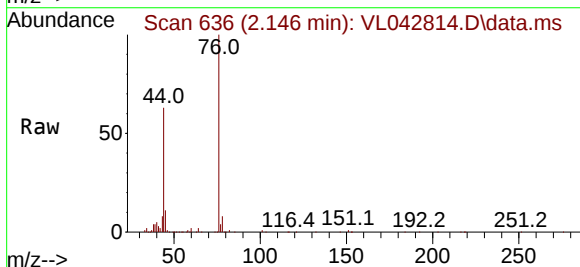
Ion	Ratio	Lower	Upper
57	100		
41	110.7	75.4	113.2
43	261.3	185.0	277.6
56	57.7	42.9	64.3

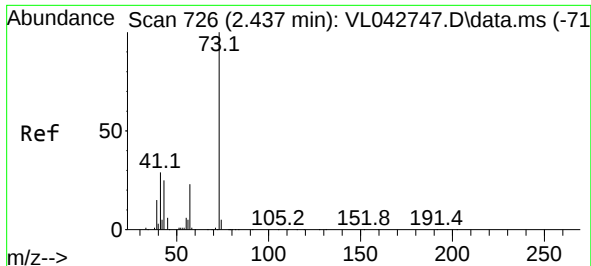


#27
Carbon Disulfide
Concen: 2.590 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 76 Resp: 47924

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	9.9	9.9	14.9#

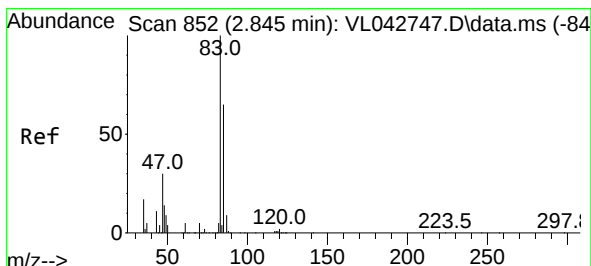
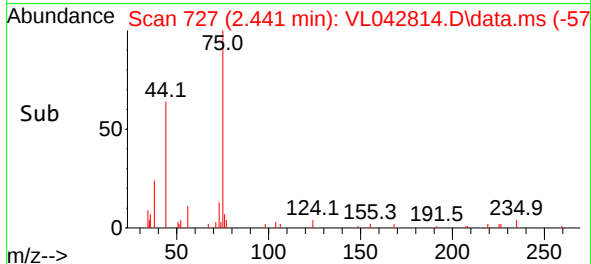
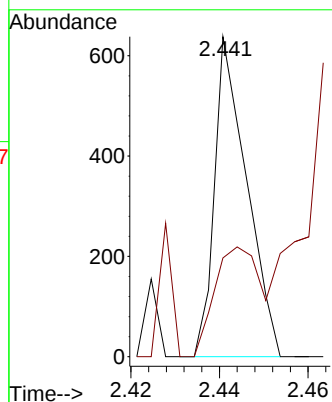
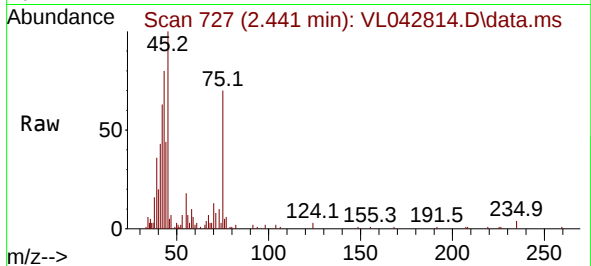




#28
Methyl tert-Butyl Ether
Concen: 0.032 ppbv
RT: 2.441 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

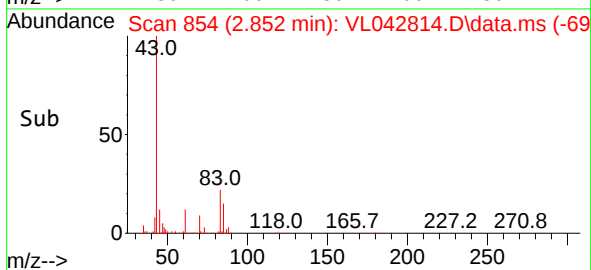
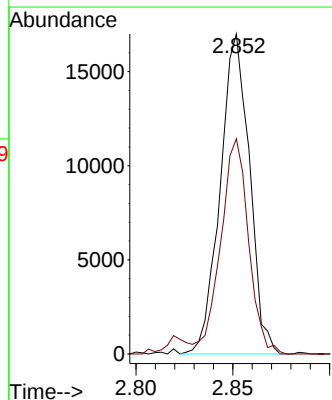
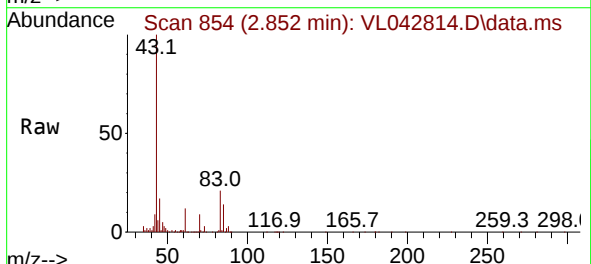
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

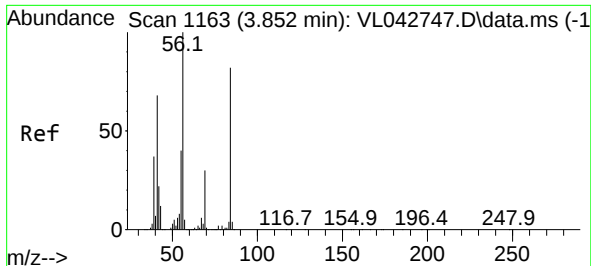
Tgt Ion: 73 Resp: 322
Ion Ratio Lower Upper
73 100
57 0.0 19.8 29.8#



#29
Chloroform
Concen: 0.535 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 83 Resp: 17868
Ion Ratio Lower Upper
83 100
85 66.6 52.2 78.2

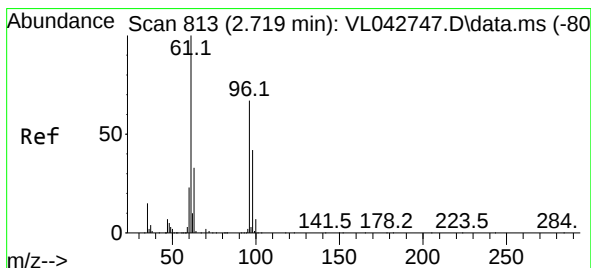
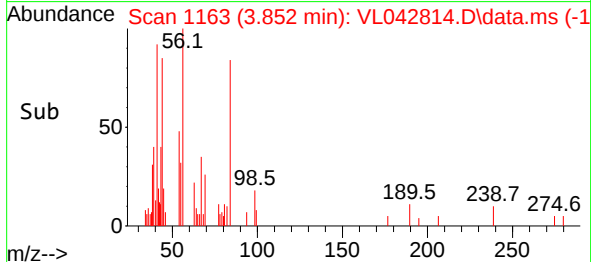
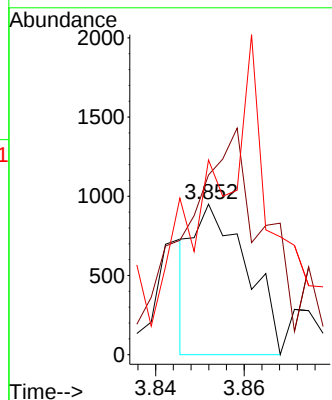
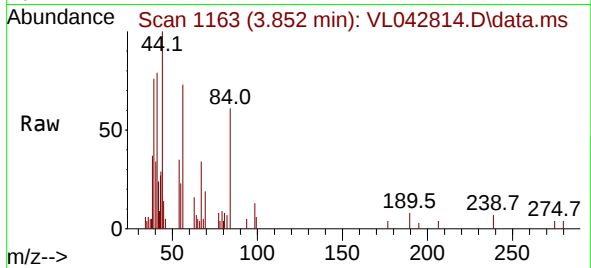




#30
Cyclohexane
Concen: 0.044 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

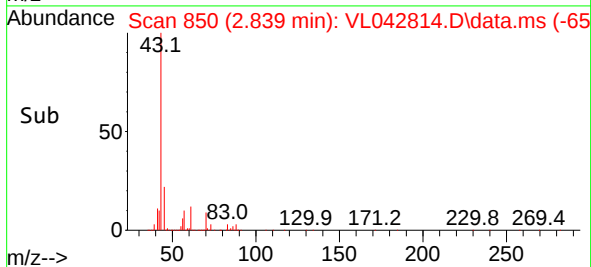
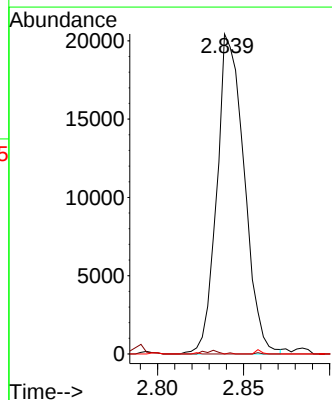
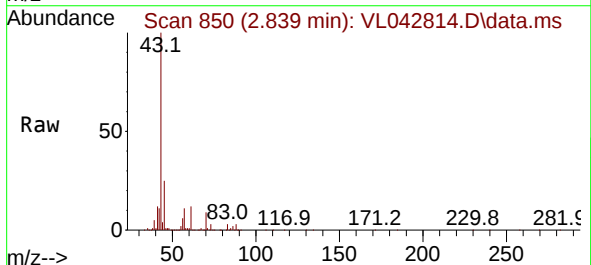
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

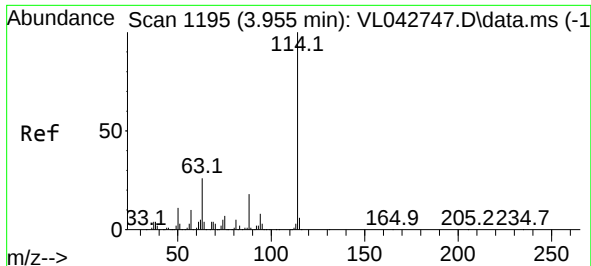
Tgt Ion: 84 Resp: 801
Ion Ratio Lower Upper
84 100
56 270.7 97.5 146.3#
41 287.1 67.2 100.8#



#31
cis-1,2-Dichloroethene
Concen: 1.015 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.120 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 61 Resp: 22549
Ion Ratio Lower Upper
61 100
96 0.0 53.5 80.3#
98 0.0 33.6 50.4#

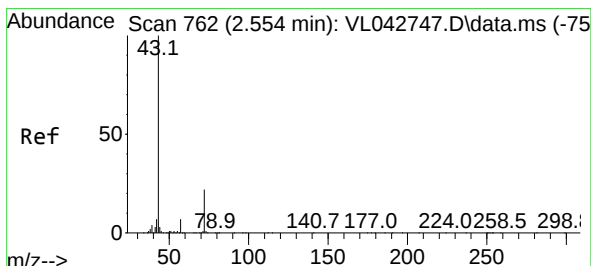
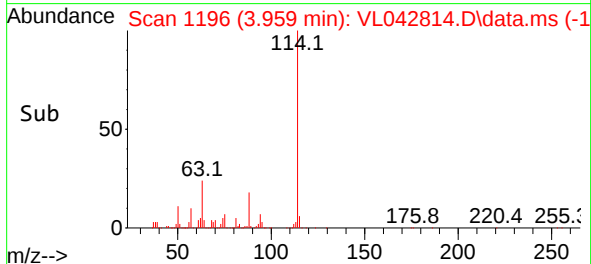
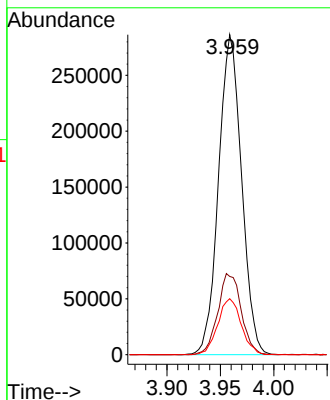
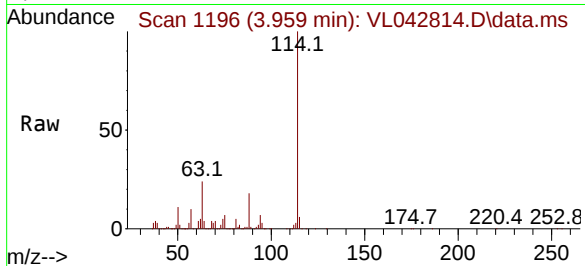




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

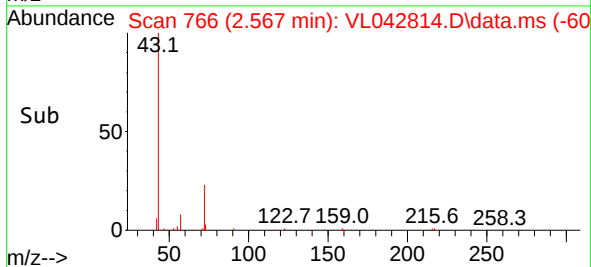
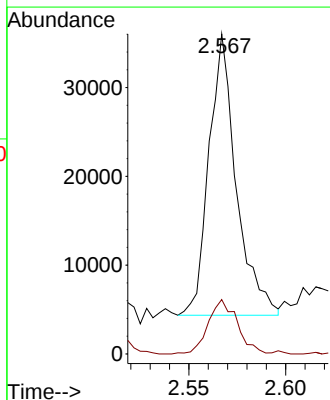
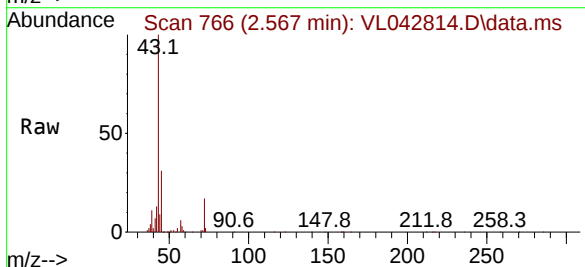
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

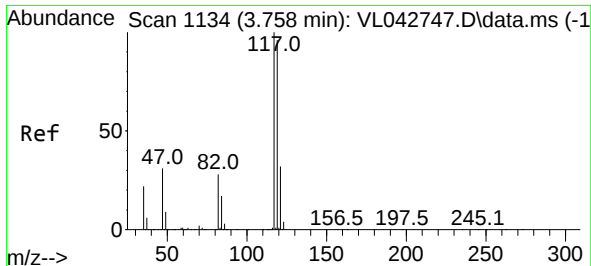
Tgt Ion:114 Resp: 428986
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.8 14.0 21.0



#34
2-Butanone
Concen: 1.025 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 43 Resp: 31136
Ion Ratio Lower Upper
43 100
72 21.1 17.4 26.0

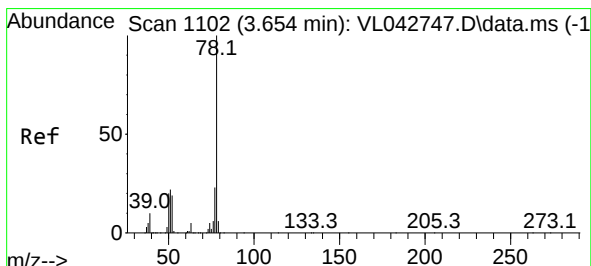
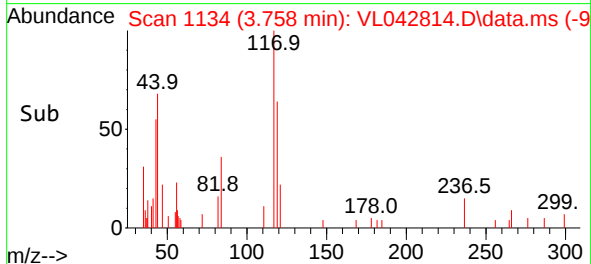
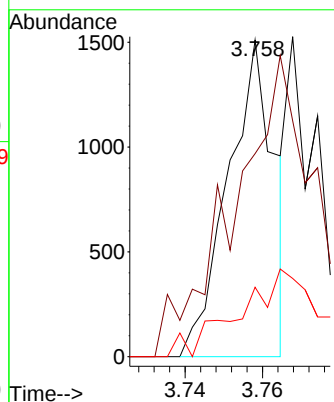
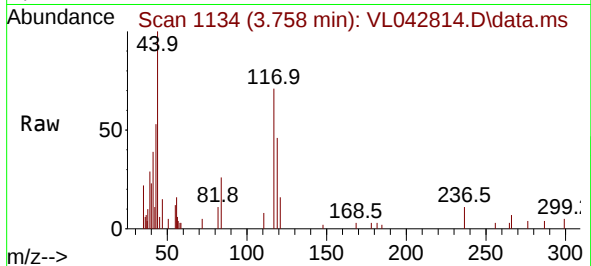




#35
Carbon Tetrachloride
Concen: 0.039 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

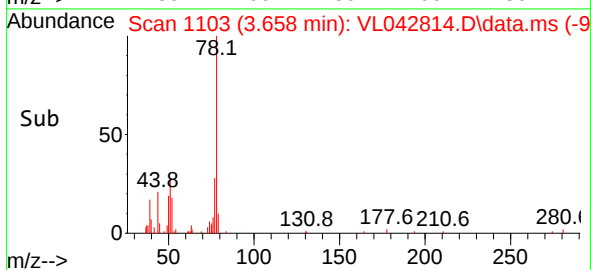
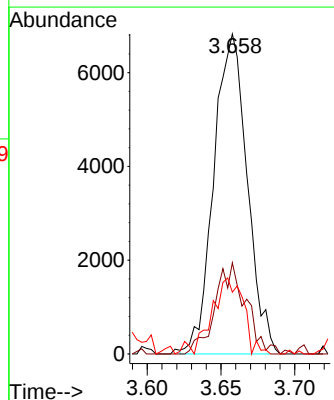
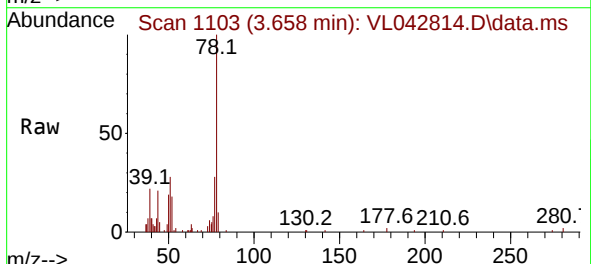
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

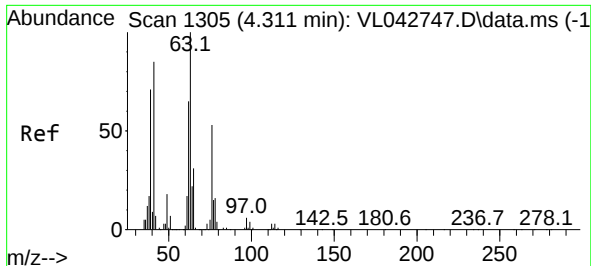
Tgt Ion:117 Resp: 1251
Ion Ratio Lower Upper
117 100
119 52.7 77.1 115.7#
121 14.4 25.5 38.3#



#36
Benzene
Concen: 0.264 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 78 Resp: 10752
Ion Ratio Lower Upper
78 100
77 28.5 18.5 27.7#
50 19.3 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.353 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042814.D

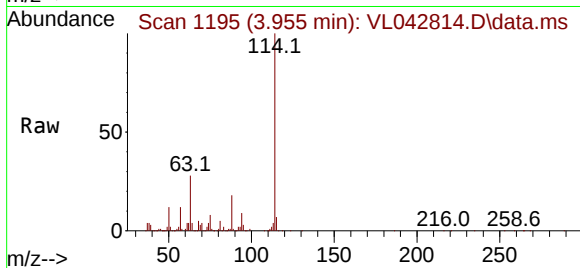
Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DUP



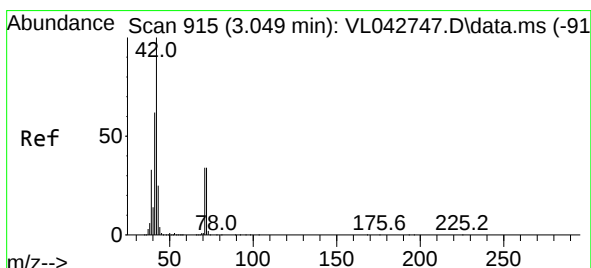
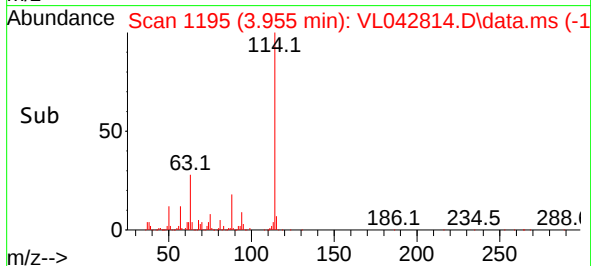
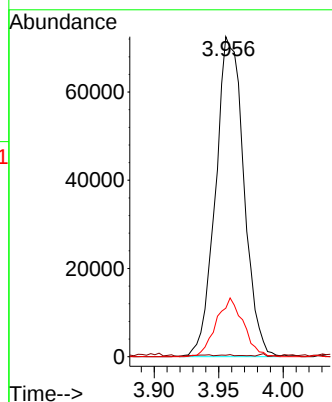
Tgt Ion: 63 Resp: 110352

Ion Ratio Lower Upper

63 100

41 0.2 68.2 102.4#

62 15.1 52.0 78.0#



#41

Tetrahydrofuran

Concen: 0.088 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.019 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

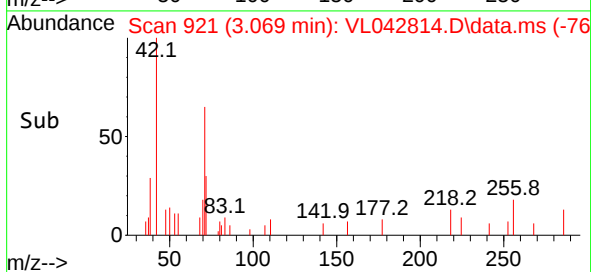
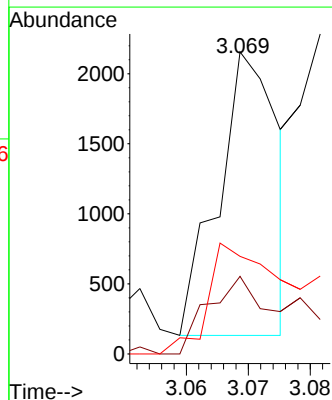
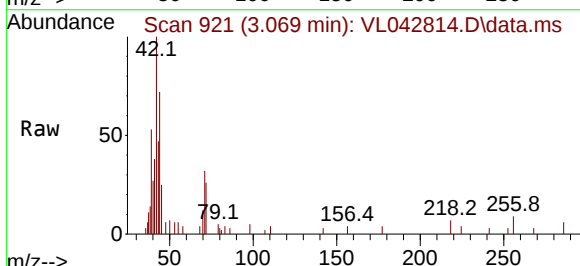
Tgt Ion: 42 Resp: 1354

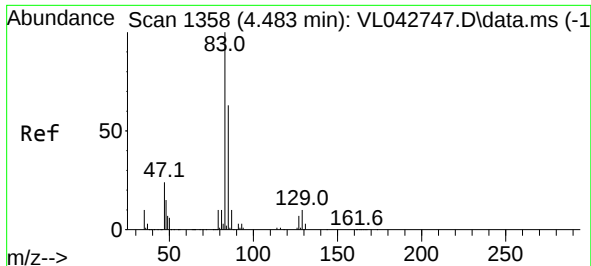
Ion Ratio Lower Upper

42 100

72 59.5 30.9 46.3#

71 71.8 28.6 43.0#

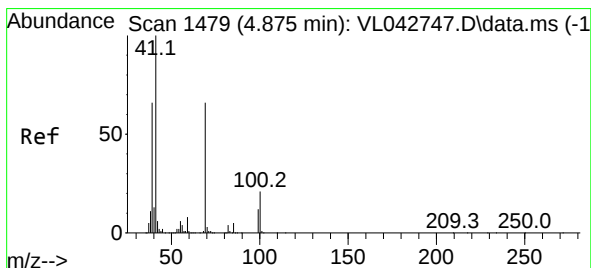
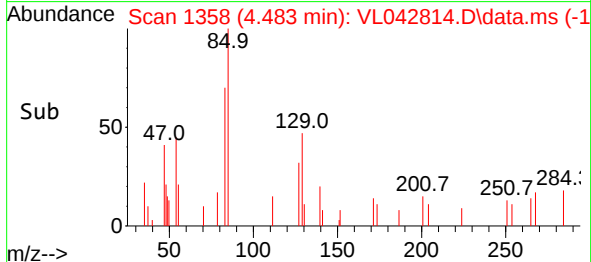
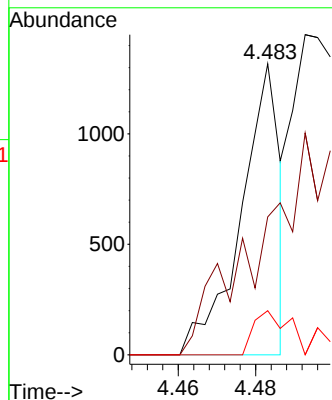
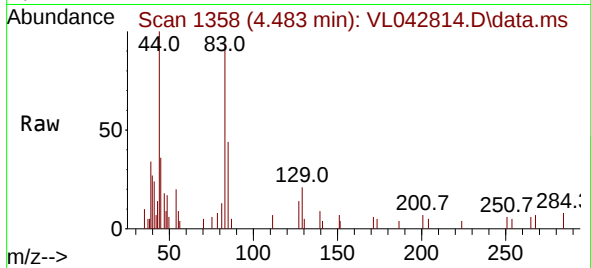




#42
Bromodichloromethane
Concen: 0.029 ppbv
RT: 4.483 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

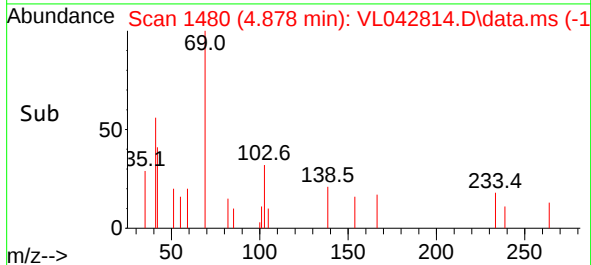
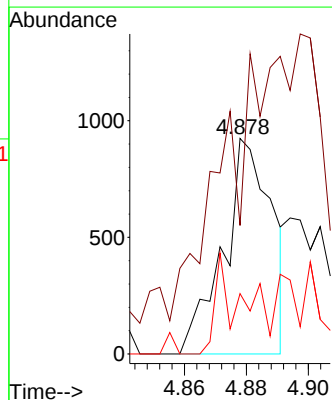
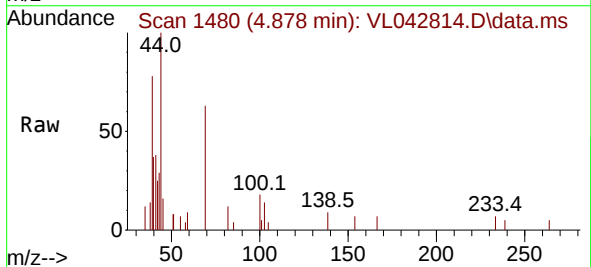
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

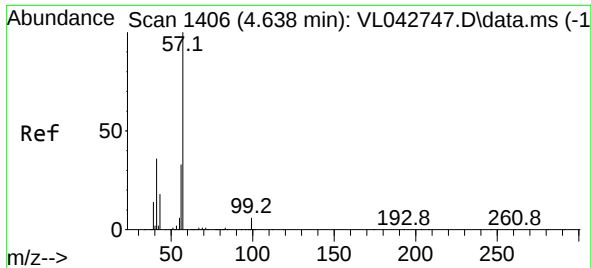
Tgt Ion: 83 Resp: 921
Ion Ratio Lower Upper
83 100
85 47.4 50.2 75.4#
127 15.2 5.4 8.2#



#43
Methyl Methacrylate
Concen: 0.069 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 69 Resp: 997
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 64.0 28.6 42.8#

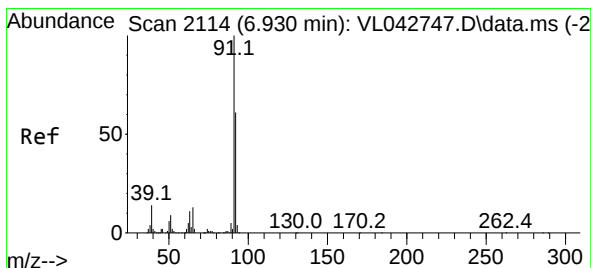
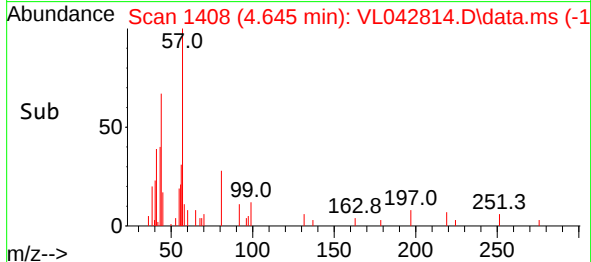
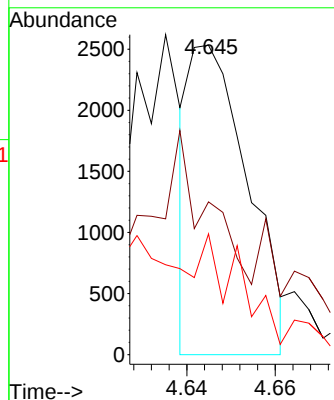
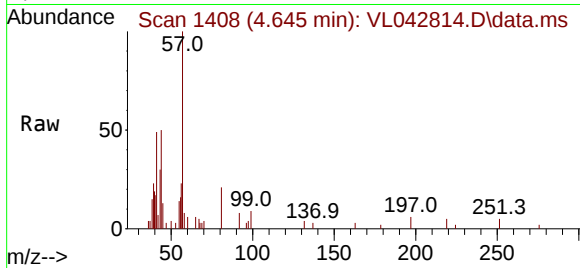




#44
2,2,4-Trimethylpentane
Concen: 0.035 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.007 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

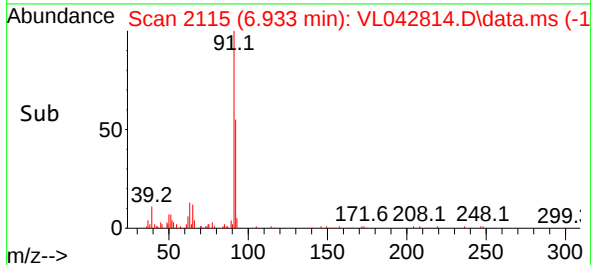
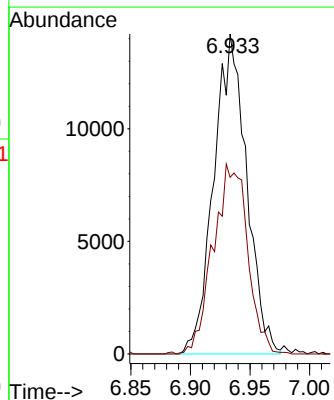
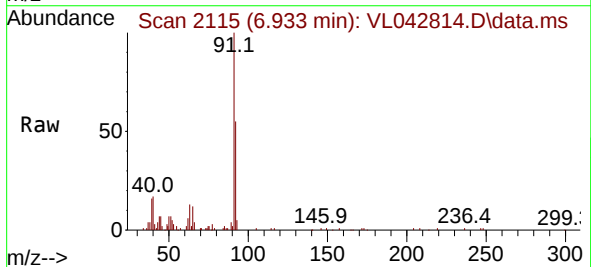
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

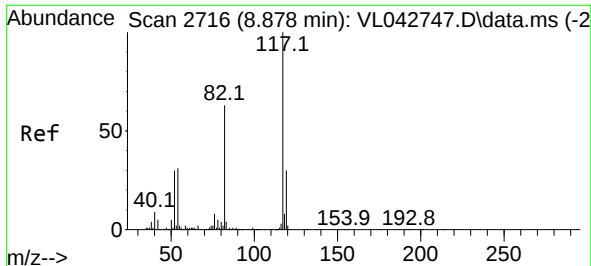
Tgt Ion: 57 Resp: 2329
Ion Ratio Lower Upper
57 100
41 0.0 28.3 42.5#
56 103.8 25.8 38.6#



#53
Toluene
Concen: 0.624 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 27249
Ion Ratio Lower Upper
91 100
92 62.0 48.0 72.0

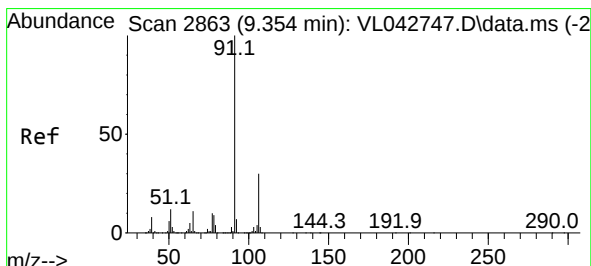
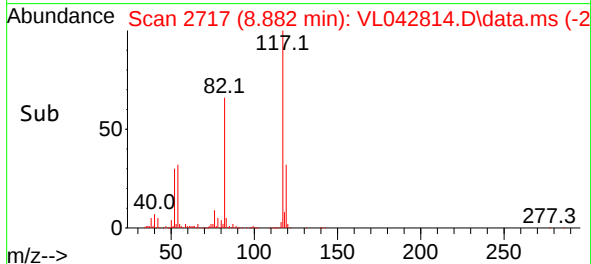
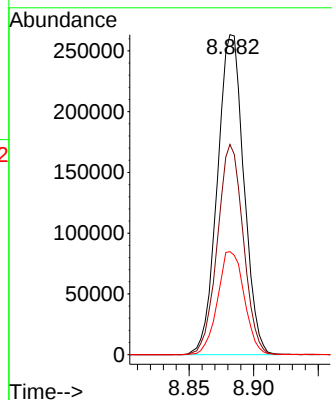
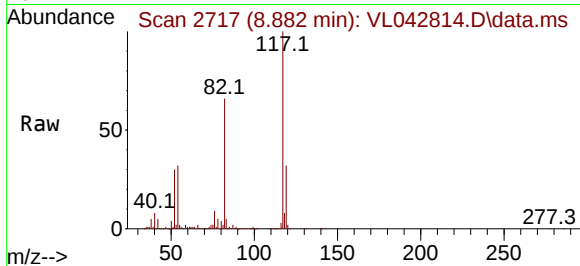




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

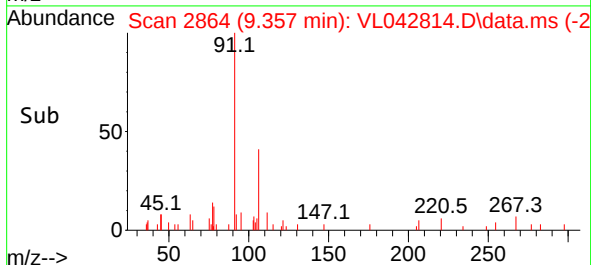
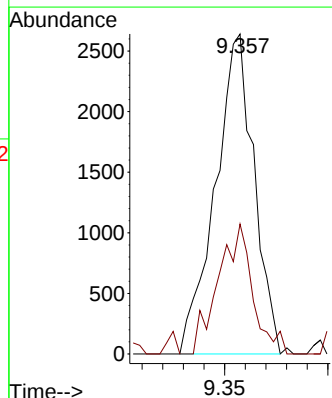
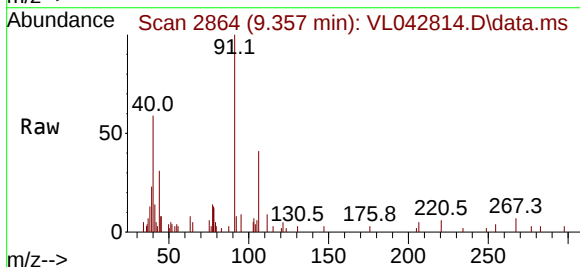
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

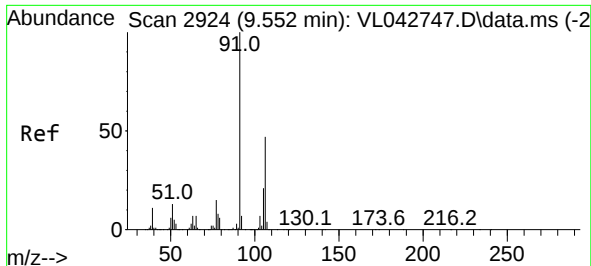
Tgt Ion:117 Resp: 375205
Ion Ratio Lower Upper
117 100
82 64.4 53.3 79.9
119 32.6 25.8 38.6



#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 91 Resp: 3436
Ion Ratio Lower Upper
91 100
106 40.6 23.8 35.6#





#59

m/p-Xylene

Concen: 0.051 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

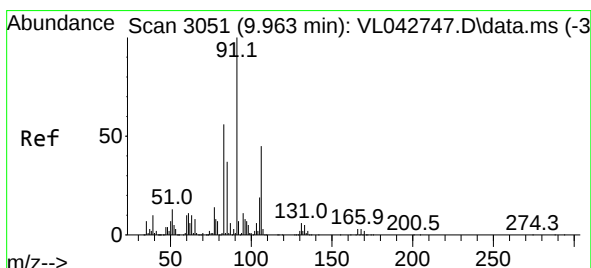
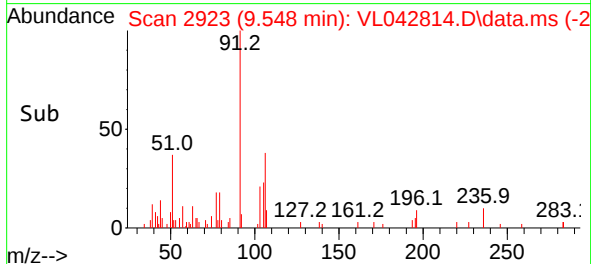
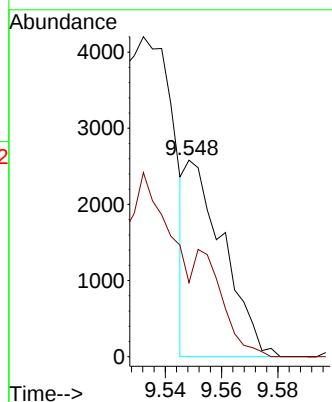
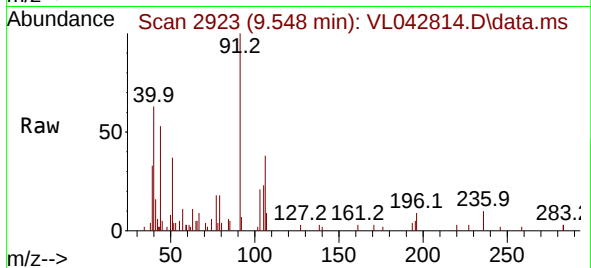
WONDER IA-5DUP

Tgt Ion: 91 Resp: 2404

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.060 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042814.D

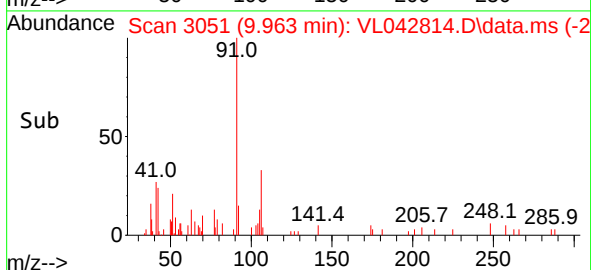
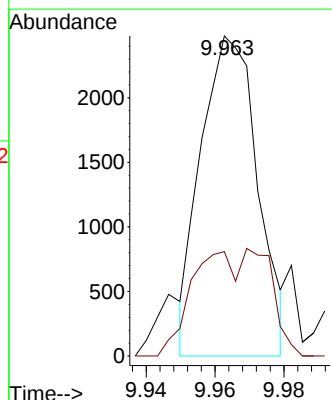
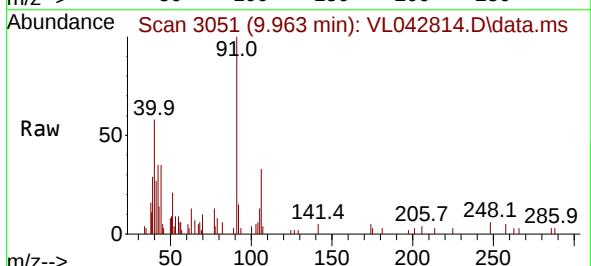
Acq: 04 Aug 2025 20:15

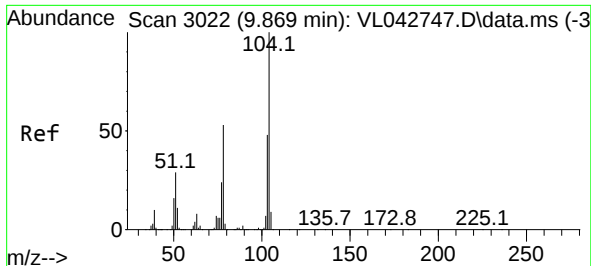
Tgt Ion: 91 Resp: 2831

Ion Ratio Lower Upper

91 100

106 45.1 22.0 66.0

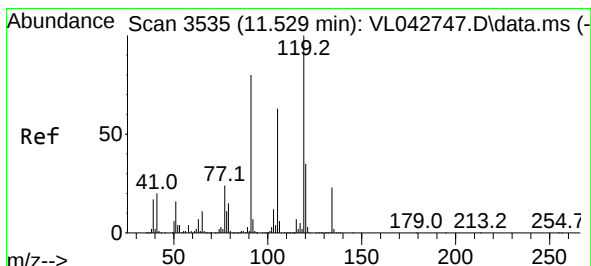
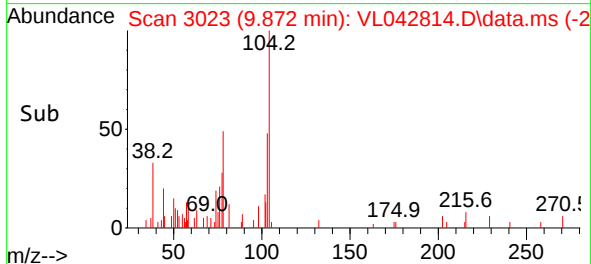
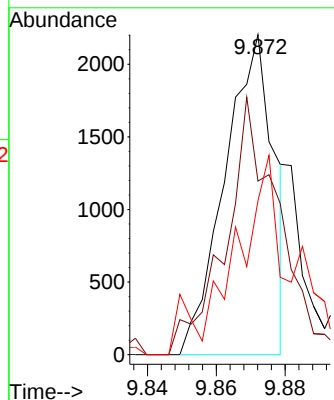
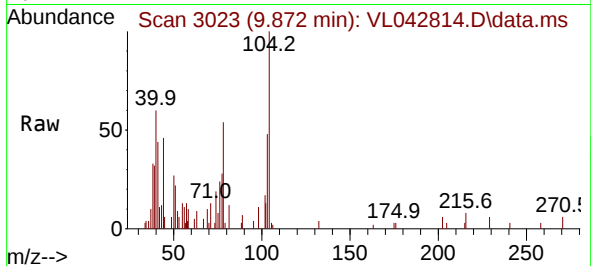




#61
Styrene
Concen: 0.110 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

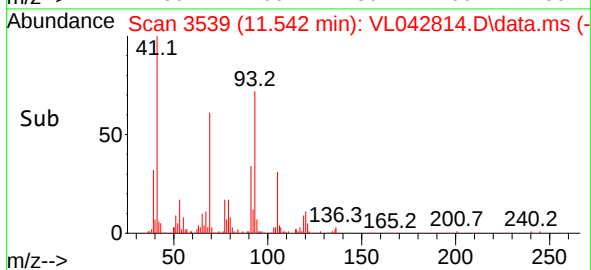
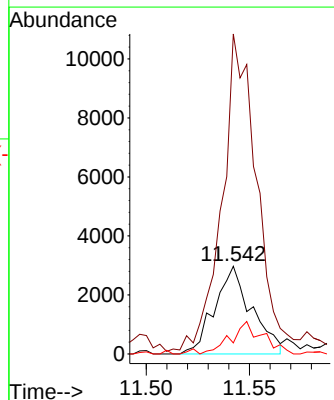
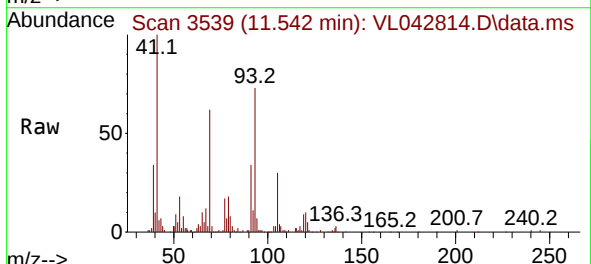
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

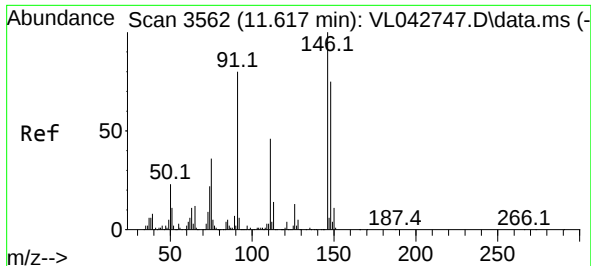
Tgt Ion:104 Resp: 2187
Ion Ratio Lower Upper
104 100
78 93.1 41.5 62.3#
103 74.3 37.5 56.3#



#65
tert-Butylbenzene
Concen: 0.060 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.013 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:119 Resp: 3723
Ion Ratio Lower Upper
119 100
91 371.2 64.0 96.0#
134 35.5 17.3 25.9#

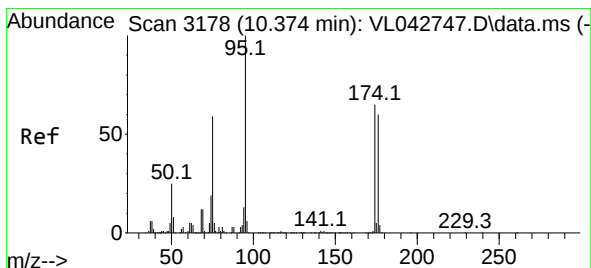
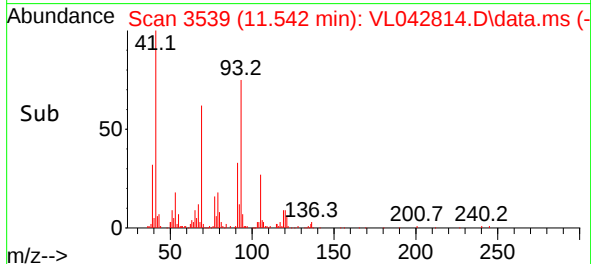
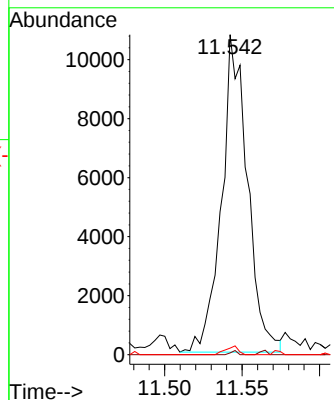
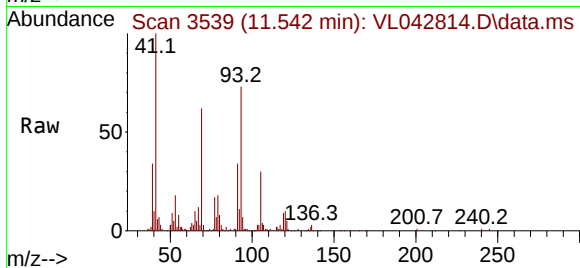




#66
Benzyl Chloride
Concen: 2.457 ppbv
RT: 11.542 min Scan# 3179
Delta R.T. -0.074 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

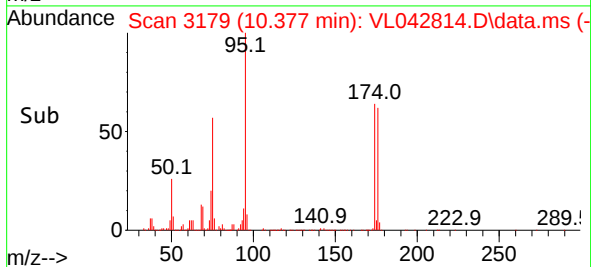
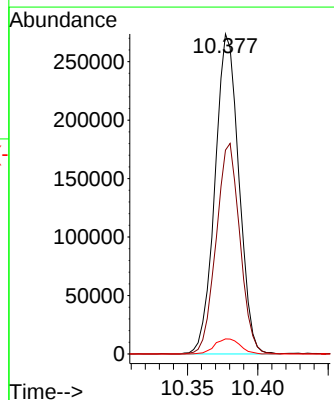
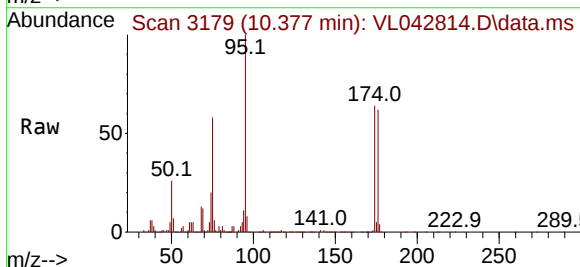
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

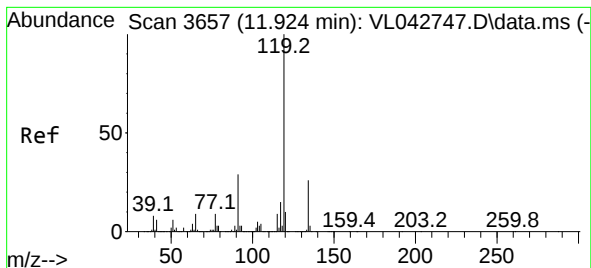
Tgt Ion: 91 Resp: 12506
Ion Ratio Lower Upper
91 100
126 0.0 14.4 21.6#
128 1.4 5.2 7.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.888 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion: 95 Resp: 323539
Ion Ratio Lower Upper
95 100
174 65.5 53.8 80.6
175 5.1 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.540 ppbv

RT: 11.924 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DUP

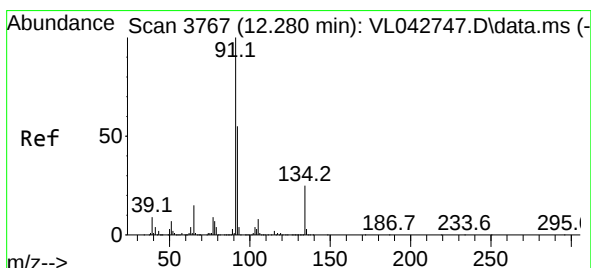
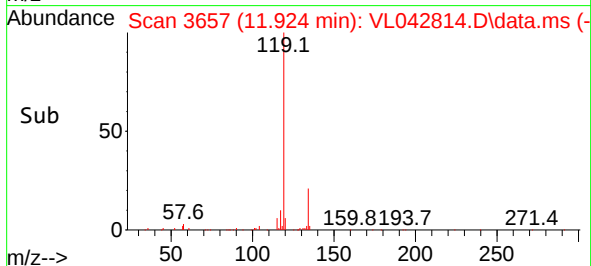
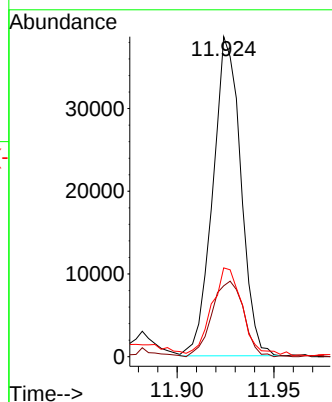
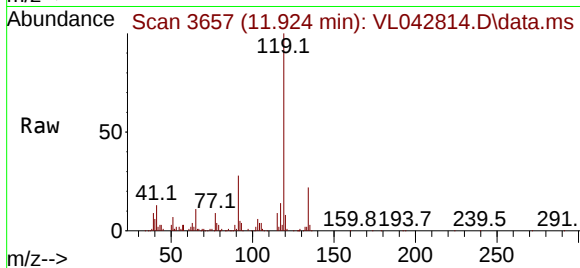
Tgt Ion:119 Resp: 38819

Ion Ratio Lower Upper

119 100

134 27.1 20.6 31.0

91 30.8 23.2 34.8



#70

n-Butylbenzene

Concen: 0.211 ppbv

RT: 12.345 min Scan# 3787

Delta R.T. 0.065 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

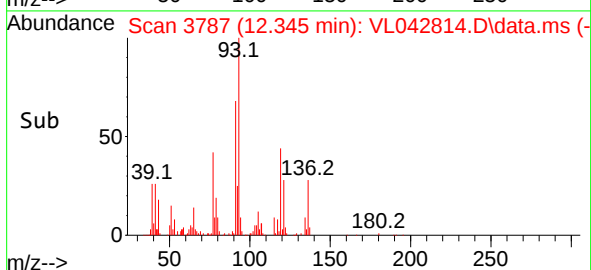
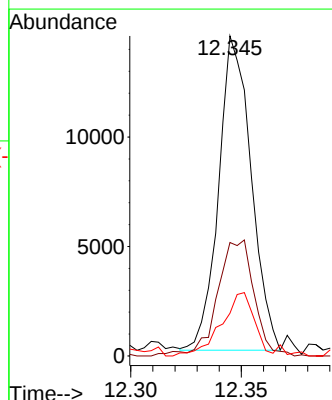
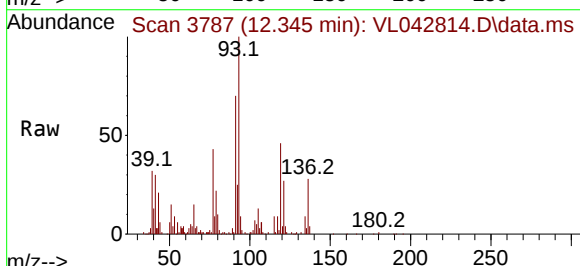
Tgt Ion: 91 Resp: 14675

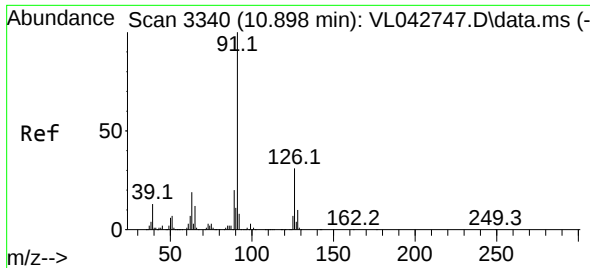
Ion Ratio Lower Upper

91 100

92 41.6 43.4 65.2#

134 22.3 19.6 29.4

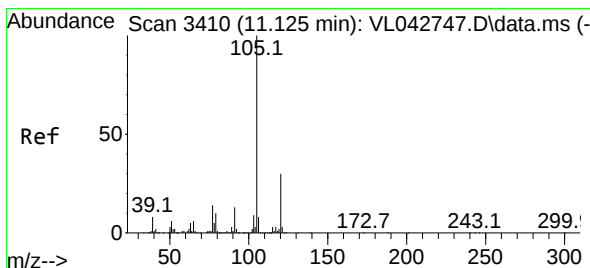
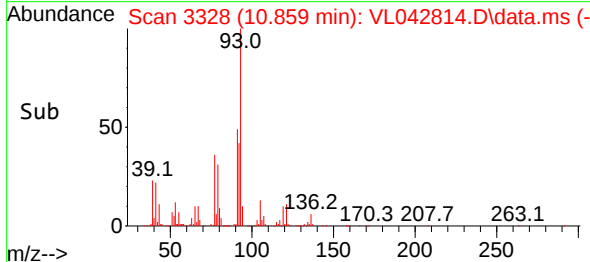
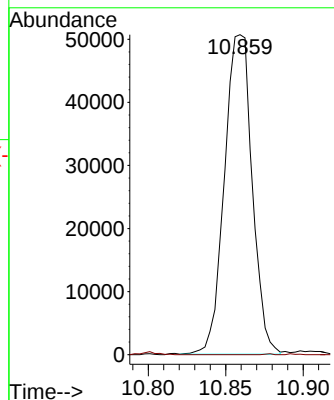
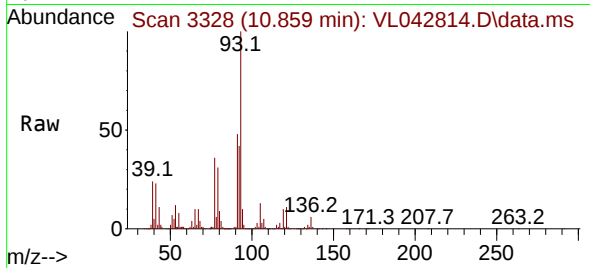




#71
2-Chlorotoluene
Concen: 1.183 ppbv
RT: 10.859 min Scan# 311
Delta R.T. -0.039 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

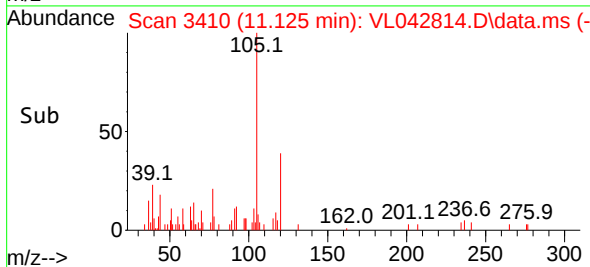
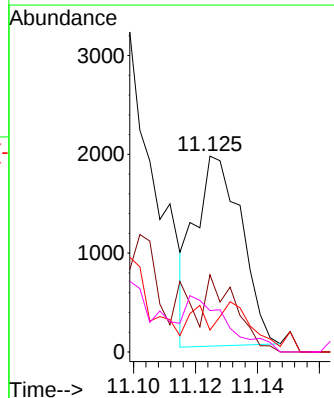
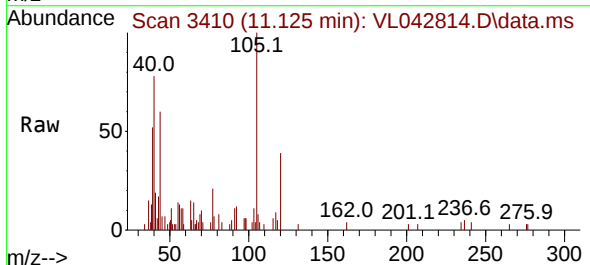
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5DUP

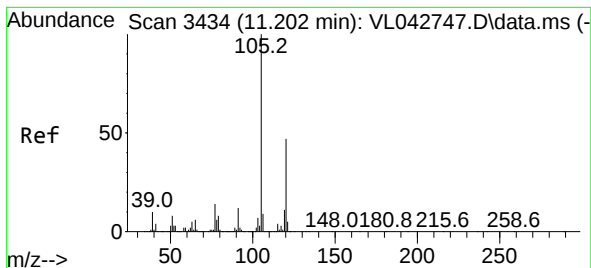
Tgt Ion: 91 Resp: 63332
Ion Ratio Lower Upper
91 100
126 0.2 12.0 48.2#



#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042814.D
Acq: 04 Aug 2025 20:15

Tgt Ion:105 Resp: 1995
Ion Ratio Lower Upper
105 100
120 0.0 24.4 36.6#
91 0.0 10.6 15.8#
77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.023 ppbv

RT: 11.209 min Scan# 3434

Delta R.T. 0.007 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

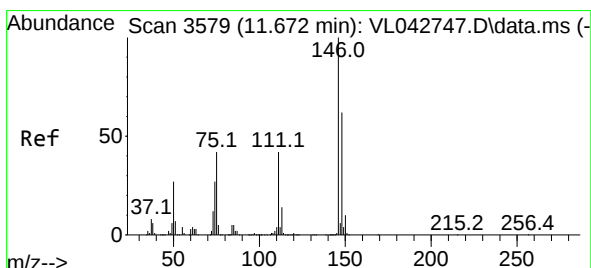
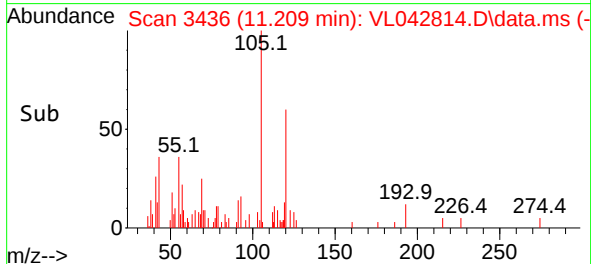
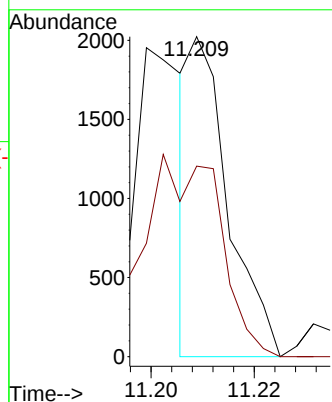
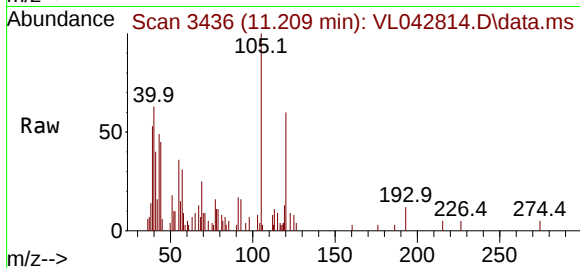
WONDER IA-5DUP

Tgt Ion:105 Resp: 1052

Ion Ratio Lower Upper

105 100

120 61.2 37.8 56.8#



#76

1,4-Dichlorobenzene

Concen: 0.022 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. 0.007 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

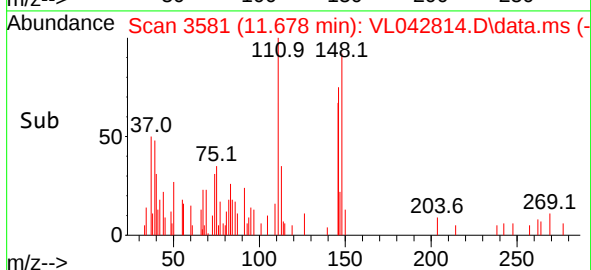
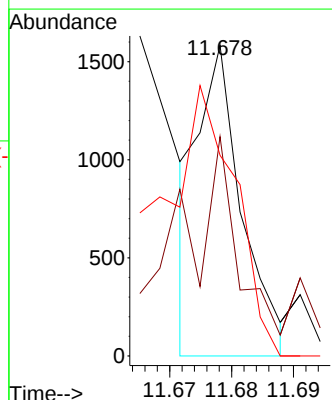
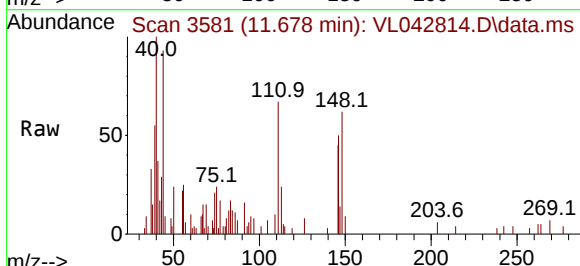
Tgt Ion:146 Resp: 781

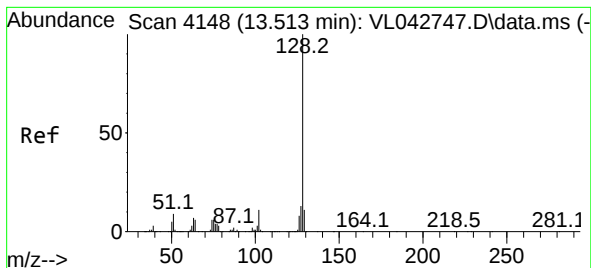
Ion Ratio Lower Upper

146 100

111 158.8 21.4 64.2#

148 153.9 32.1 96.3#





#79

Naphthalene

Concen: 0.471 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5DUP

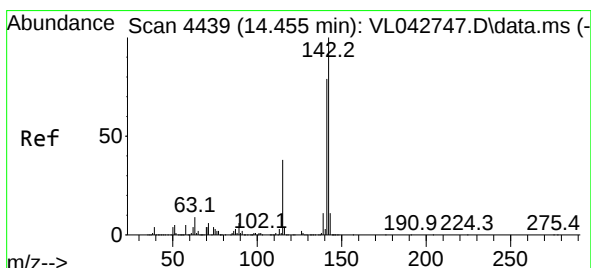
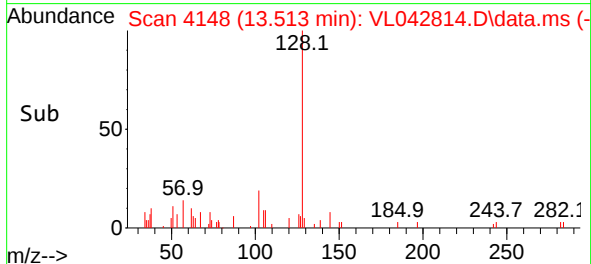
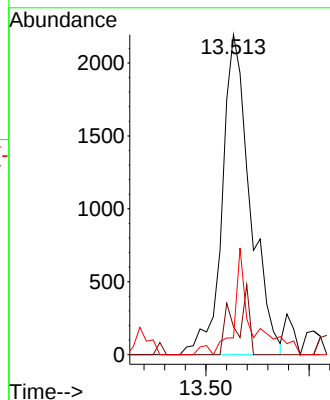
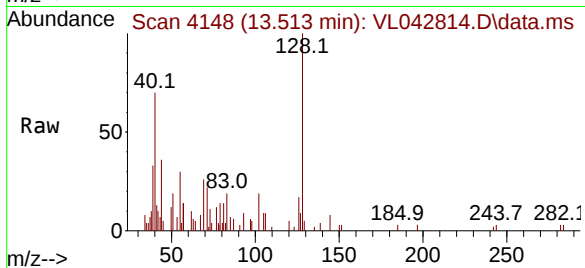
Tgt Ion:128 Resp: 2069

Ion Ratio Lower Upper

128 100

127 8.8 10.5 15.7#

129 5.2 8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 1.130 ppbv

RT: 14.497 min Scan# 4452

Delta R.T. 0.042 min

Lab File: VL042814.D

Acq: 04 Aug 2025 20:15

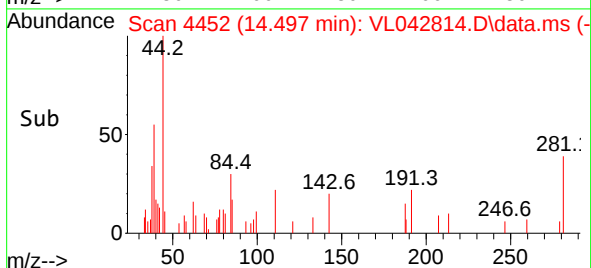
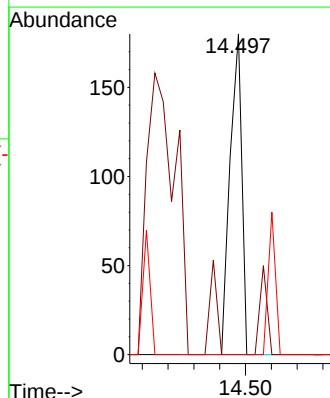
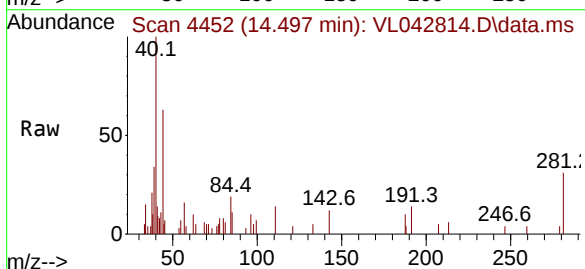
Tgt Ion:142 Resp: 57

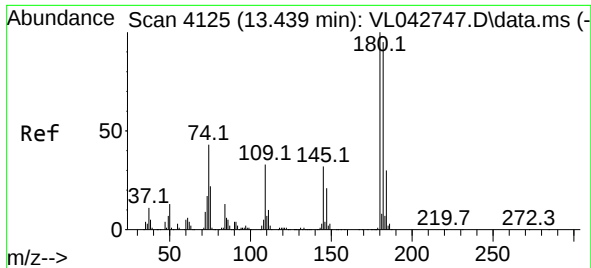
Ion Ratio Lower Upper

142 100

141 291.2 65.8 98.8#

115 114.0 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.436 ppbv

RT: 13.449 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042814.D

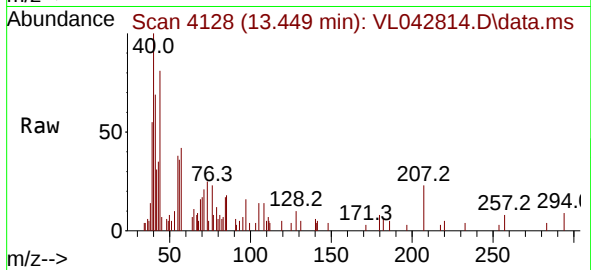
Acq: 04 Aug 2025 20:15

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion:180 Resp: 37

Ion Ratio Lower Upper

180 100

182 243.2 76.2 114.2#

184 35.1 24.8 37.2

