

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042799.D
 Acq On : 04 Aug 2025 11:49
 Operator : SY/MD
 Sample : Q2750-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2

Quant Time: Aug 05 01:01:57 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	168040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	466299	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	405142	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	346336	10.794	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.900%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	11725	0.528	ppbv	93
3) Chlorodifluoromethane	1.473	51	1667967	57.631	ppbv #	80
4) Chloromethane	1.531	50	69558	7.739	ppbv	96
5) Vinyl Chloride	1.486	62	1274	0.143	ppbv #	44
6) Bromomethane	1.667	94	466	0.136	ppbv #	50
7) Chloroethane	1.699	64	524	0.153	ppbv	97
8) Dichlorotetrafluoroethane	1.496	85	11725	0.642	ppbv #	22
9) Propene	1.557	41	551603	52.439	ppbv	96
10) Heptane	4.981	43	1403	0.049	ppbv #	27
11) Trichlorofluoromethane	1.877	101	4681	0.204	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	1508	0.087	ppbv	98
13) Ethanol	1.725	45	4604154	6010.216	ppbv	93
14) Bromoethene	1.790	108	154	0.025	ppbv #	1
15) Acetone	1.832	43	2199380	94.786	ppbv #	77
16) 1,3-Butadiene	1.557	39	268799	27.159	ppbv #	16
17) tert-Butyl alcohol	1.994	59	8540848	408.119	ppbv	97
19) Isopropyl Alcohol	1.949	45	15955054	1293.927	ppbv #	44
20) Methylene Chloride	2.062	84	14457	1.977	ppbv	98
21) Allyl Chloride	1.994	41	4153383	290.431	ppbv #	1
23) Vinyl Acetate	2.460	43	59640	2.120	ppbv #	90
24) 1,1-Dichloroethane	2.784	63	479	0.028	ppbv #	87
25) Ethyl Acetate	2.842	43	267867	5.215	ppbv #	79
26) Hexane	2.823	57	43398	1.926	ppbv #	1
27) Carbon Disulfide	2.146	76	70116	3.635	ppbv #	65
28) Methyl tert-Butyl Ether	2.441	73	259	0.024	ppbv #	50
29) Chloroform	2.848	83	28519	0.819	ppbv	97
30) Cyclohexane	3.855	84	1020	0.053	ppbv #	1
31) cis-1,2-Dichloroethene	2.842	61	27854	1.203	ppbv #	23
34) 2-Butanone	2.564	43	63731	1.929	ppbv	99
35) Carbon Tetrachloride	3.764	117	3049	0.088	ppbv	94
36) Benzene	3.654	78	13550	0.307	ppbv	96
37) 1,2-Dichloroethane	3.221	62	932	0.035	ppbv #	94
39) 1,2-Dichloropropane	3.959	63	119604	7.332	ppbv #	21
40) 1,4-Dioxane	4.609	88	344	0.045	ppbv #	1
41) Tetrahydrofuran	3.065	42	2814	0.167	ppbv #	38
42) Bromodichloromethane	4.496	83	2923	0.084	ppbv #	96
43) Methyl Methacrylate	4.875	69	419	0.027	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	2638	0.037	ppbv #	1
53) Toluene	6.933	91	42388	0.893	ppbv	98
58) Ethyl Benzene	9.354	91	3490	0.055	ppbv	94
59) m/p-Xylene	9.561	91	1661	0.032	ppbv #	30
60) o-Xylene	9.969	91	4755	0.093	ppbv	99
61) Styrene	9.869	104	3306	0.154	ppbv #	65

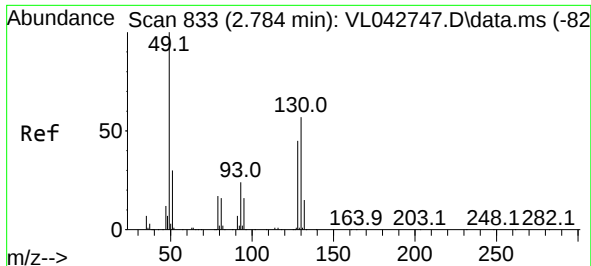
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042799.D
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Quant Time: Aug 05 01:01:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 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)	
62) Isopropylbenzene	10.542	105	1812	0.024	ppbv	#	72
66) Benzyl Chloride	11.545	91	12357	2.249	ppbv	#	66
67) sec-Butylbenzene	11.850	105	41487	0.436	ppbv		97
69) p-Isopropyltoluene	11.927	119	54078	0.697	ppbv	#	93
70) n-Butylbenzene	12.348	91	20385	0.272	ppbv	#	85
71) 2-Chlorotoluene	10.739	91	1555	0.027	ppbv		71
72) 4-Ethyltoluene	11.121	105	1455	0.024	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.205	105	2278	0.045	ppbv		98
74) 1,2,4-Trimethylbenzene	11.539	105	9738	0.178	ppbv	#	79
75) 1,3-Dichlorobenzene	11.607	146	994	0.026	ppbv		67
76) 1,4-Dichlorobenzene	11.675	146	3042	0.081	ppbv	#	85
77) 1,2-Dichlorobenzene	11.947	146	1343	0.036	ppbv		80
78) Hexachloro-1,3-Butadiene	13.882	225	746	0.022	ppbv	#	85
79) Naphthalene	13.513	128	6363	0.537	ppbv	#	91
80) Naphthalene,2-methyl-	14.458	142	2085	1.191	ppbv	#	81
81) 1,2,4-Trichlorobenzene	13.442	180	2468	0.506	ppbv	#	90

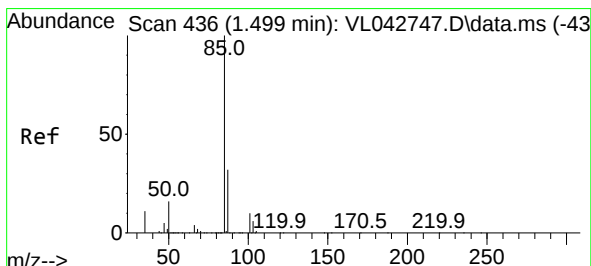
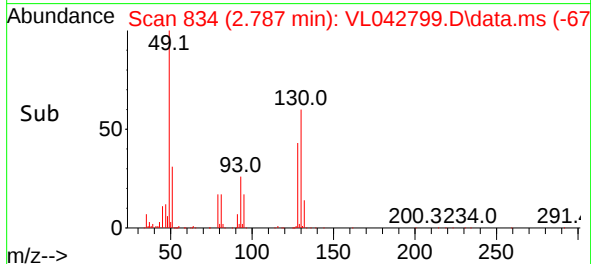
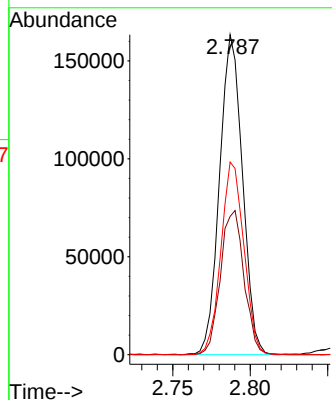
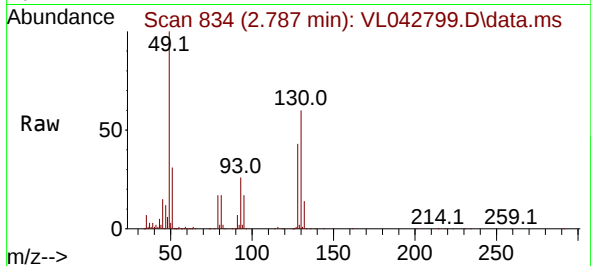
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

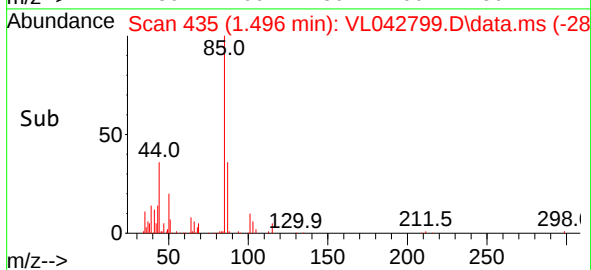
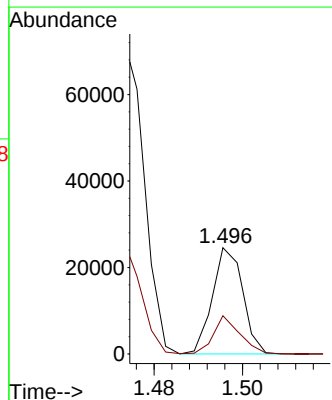
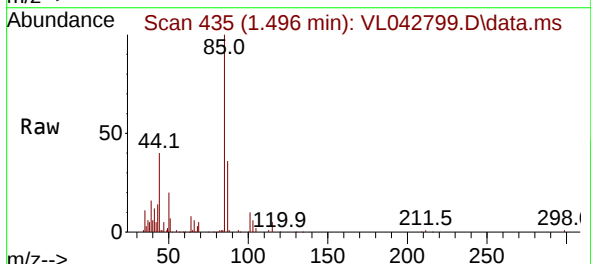
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

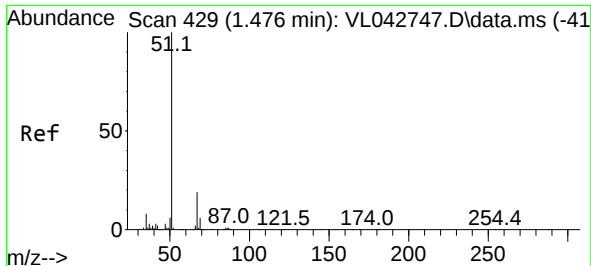
Tgt Ion: 49 Resp: 168040
Ion Ratio Lower Upper
49 100
128 46.4 23.6 71.0
130 60.3 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.528 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 85 Resp: 11725
Ion Ratio Lower Upper
85 100
87 35.7 25.4 38.2

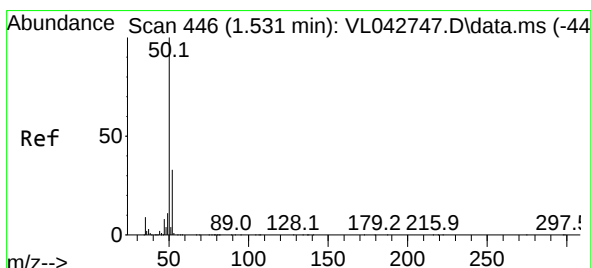
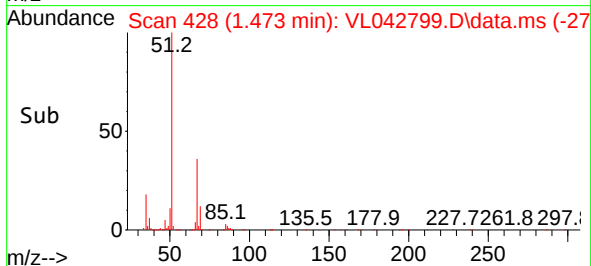
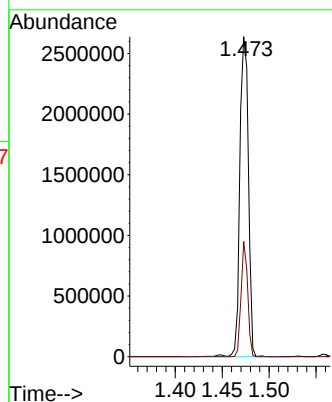
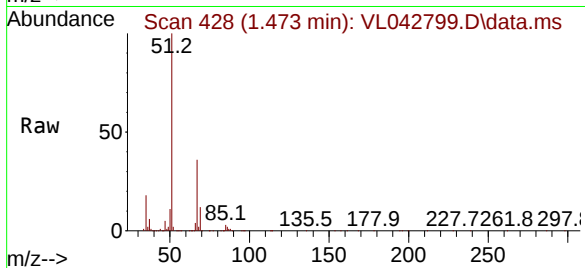




#3
Chlorodifluoromethane
Concen: 57.631 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

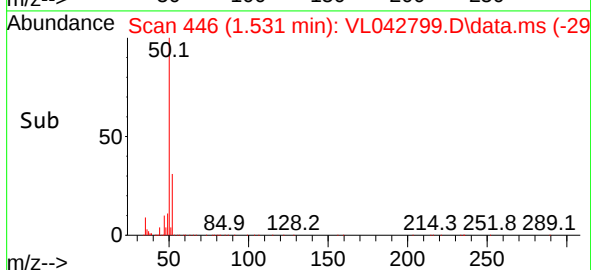
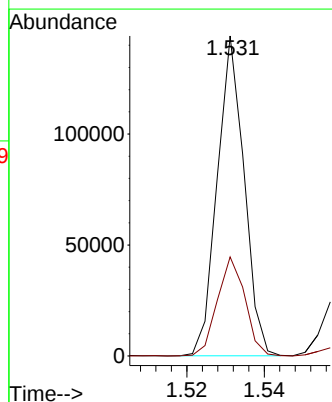
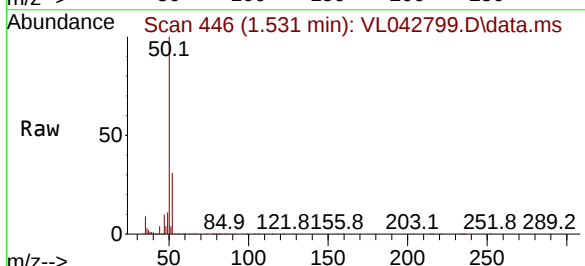
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

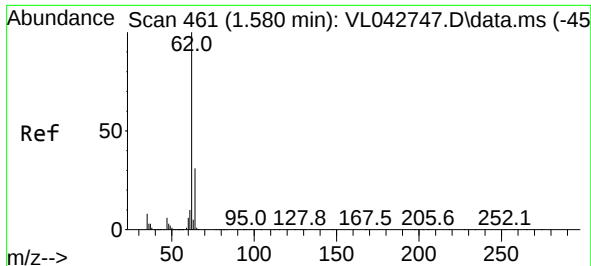
Tgt Ion: 51 Resp: 1667967
Ion Ratio Lower Upper
51 100
67 27.7 15.0 22.6#



#4
Chloromethane
Concen: 7.739 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 50 Resp: 69558
Ion Ratio Lower Upper
50 100
52 30.9 26.6 40.0

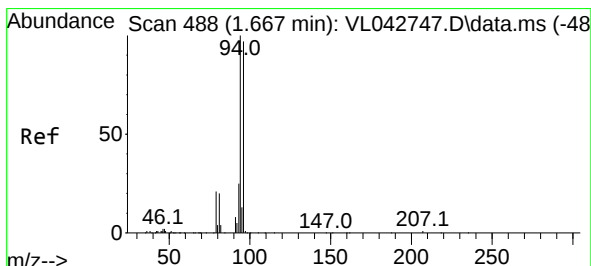
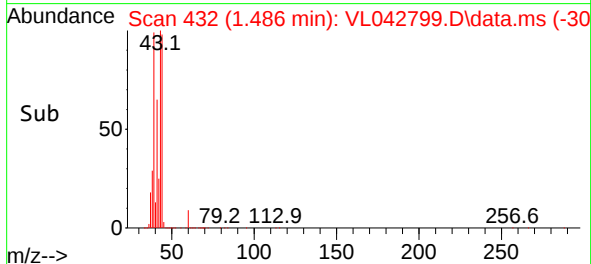
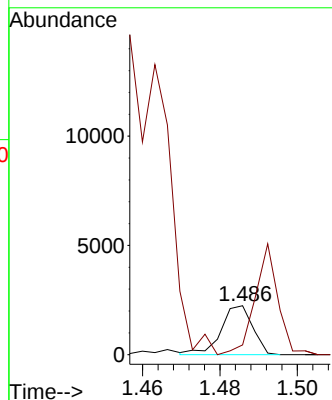
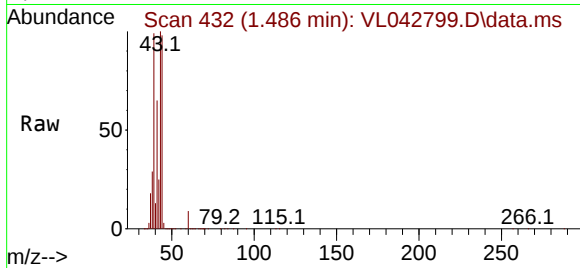




#5
 Vinyl Chloride
 Concen: 0.143 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.094 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

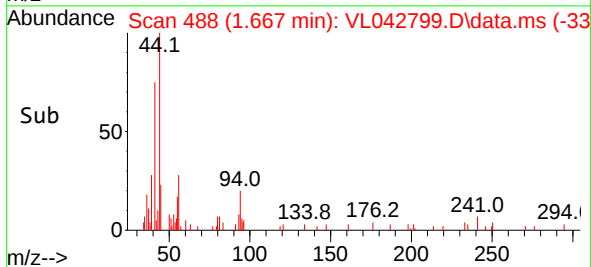
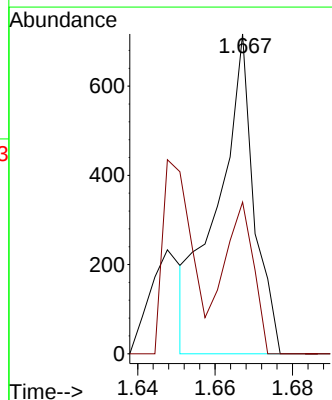
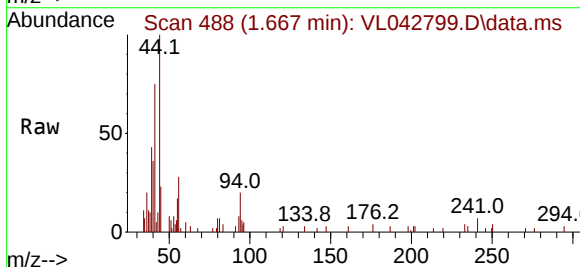
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-2

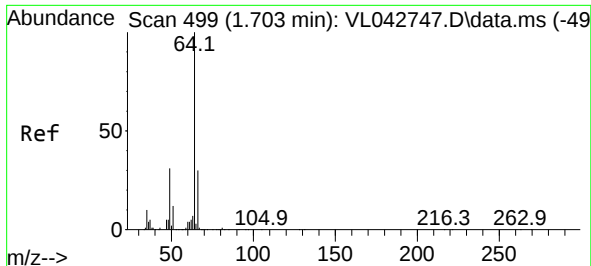
Tgt Ion: 62 Resp: 1274
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.5 36.7#



#6
 Bromomethane
 Concen: 0.136 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Tgt Ion: 94 Resp: 466
 Ion Ratio Lower Upper
 94 100
 96 47.4 77.6 116.4#

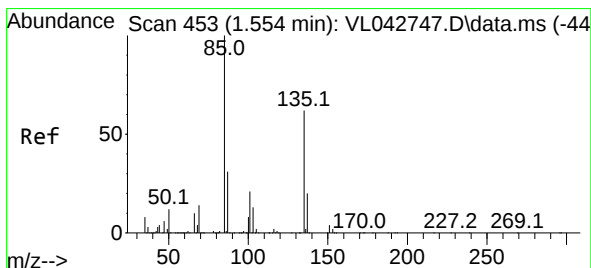
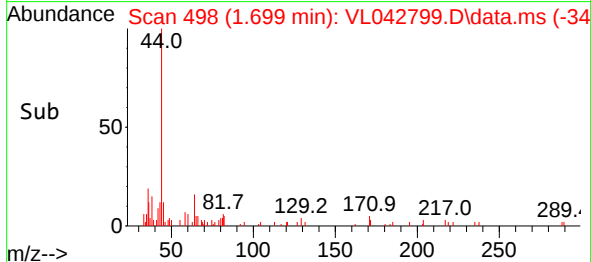
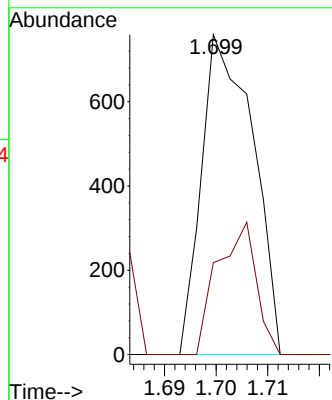
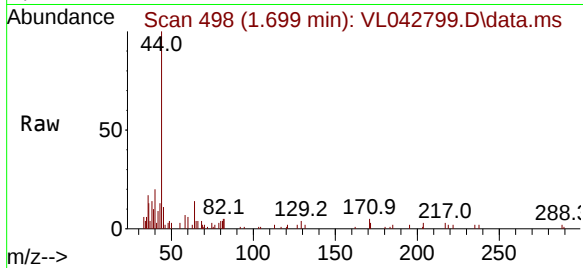




#7
Chloroethane
Concen: 0.153 ppbv
RT: 1.699 min Scan# 499
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

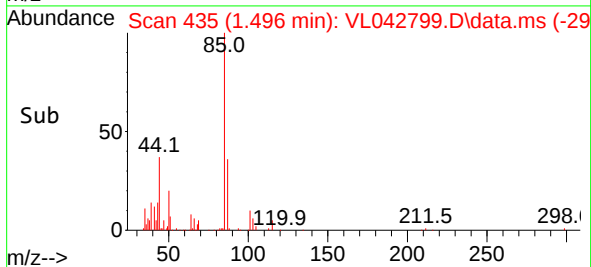
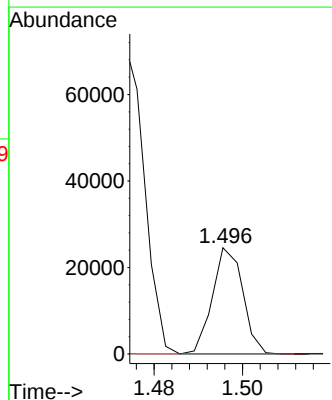
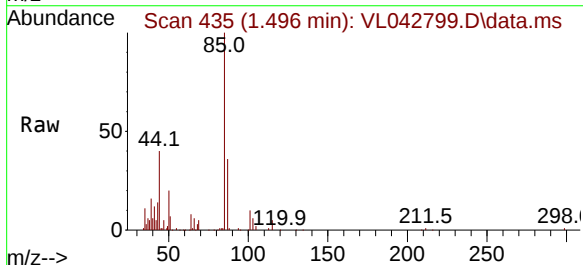
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

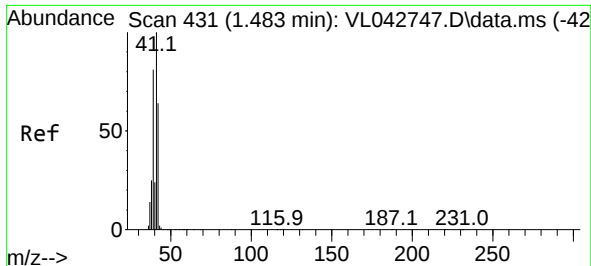
Tgt Ion: 64 Resp: 524
Ion Ratio Lower Upper
64 100
66 28.7 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 0.642 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 85 Resp: 11725
Ion Ratio Lower Upper
85 100
135 2.3 50.6 76.0#

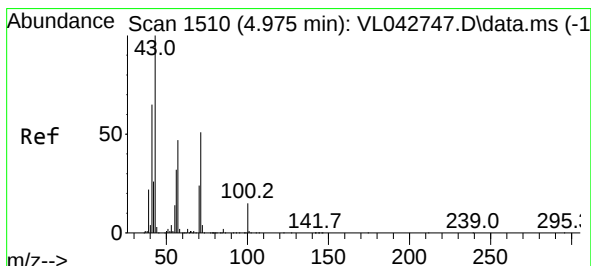
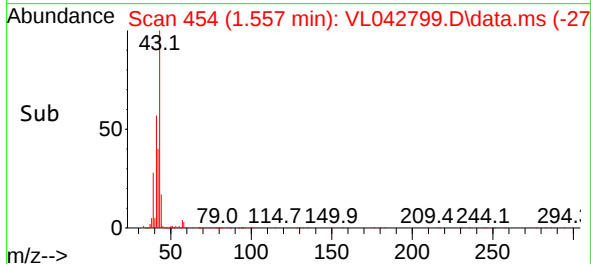
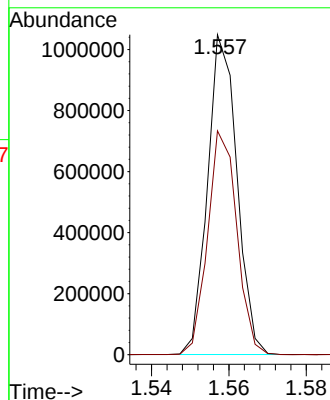
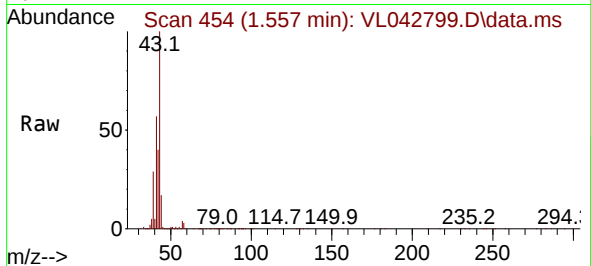




#9
Propene
Concen: 52.439 ppbv
RT: 1.557 min Scan# 41
Delta R.T. 0.074 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

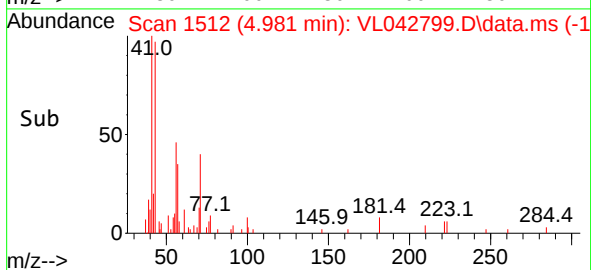
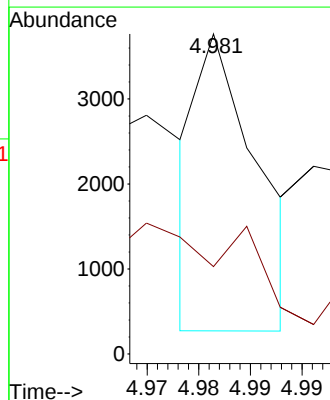
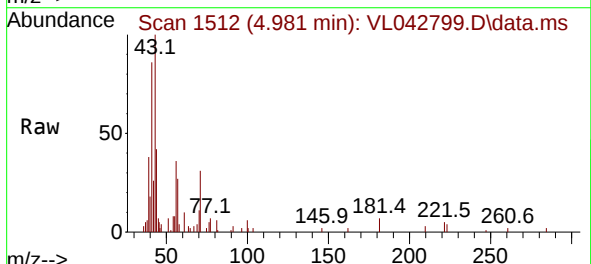
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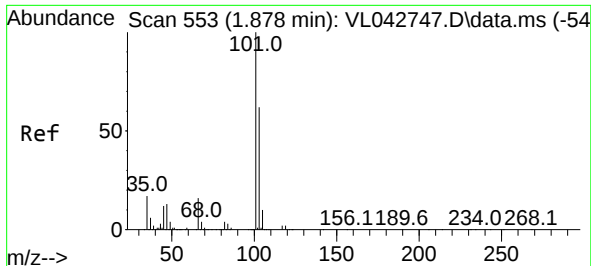
Tgt Ion: 41 Resp: 551603
Ion Ratio Lower Upper
41 100
42 69.8 53.2 79.8



#10
Heptane
Concen: 0.049 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 43 Resp: 1403
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9#





#11

Trichlorofluoromethane

Concen: 0.204 ppbv

RT: 1.877 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_1

ClientSampleId :

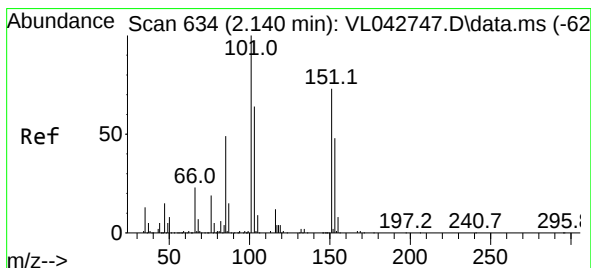
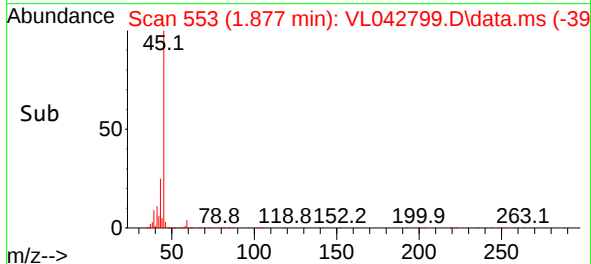
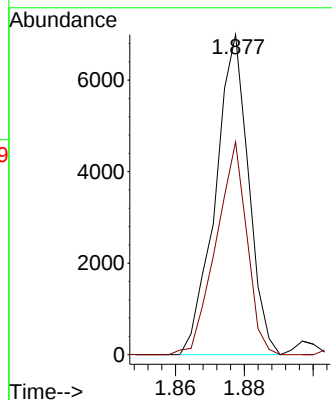
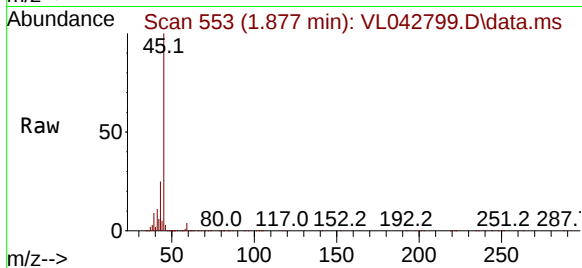
WONDER IA-2

Tgt Ion:101 Resp: 4681

Ion Ratio Lower Upper

101 100

103 66.5 49.6 74.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.087 ppbv

RT: 2.136 min Scan# 633

Delta R.T. -0.003 min

Lab File: VL042799.D

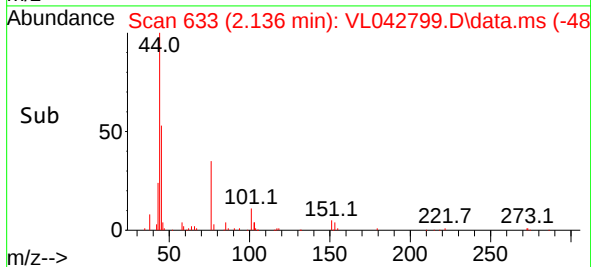
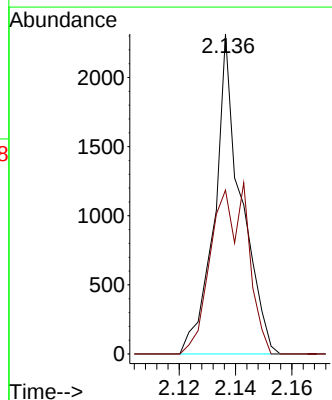
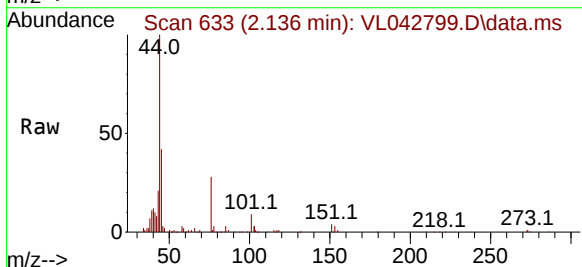
Acq: 04 Aug 2025 11:49

Tgt Ion:101 Resp: 1508

Ion Ratio Lower Upper

101 100

151 73.5 60.5 90.7

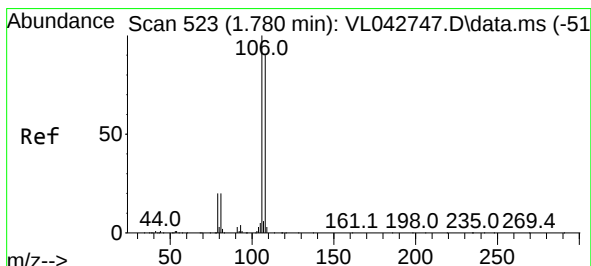
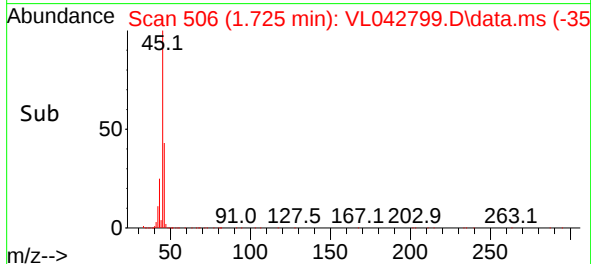
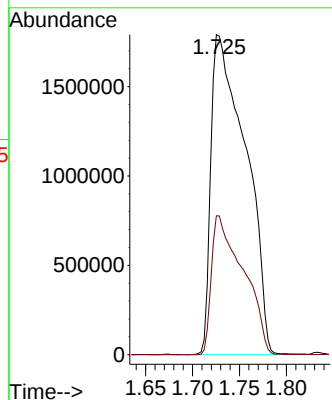
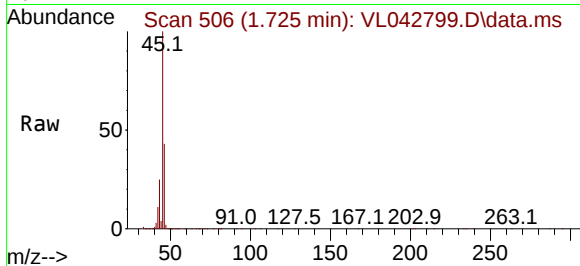




#13
Ethanol
Concen: 6010.216 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

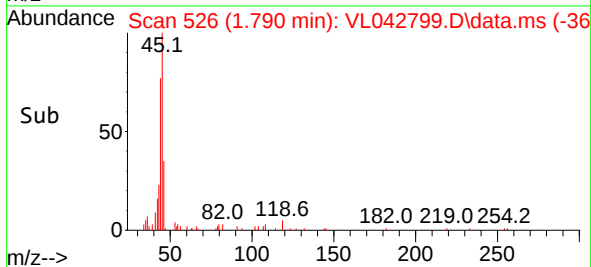
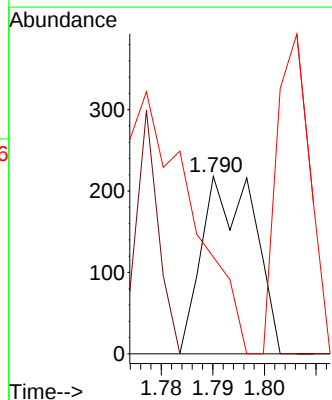
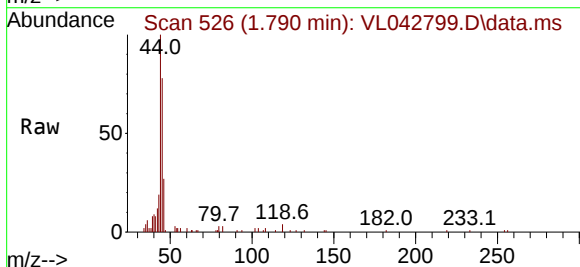
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

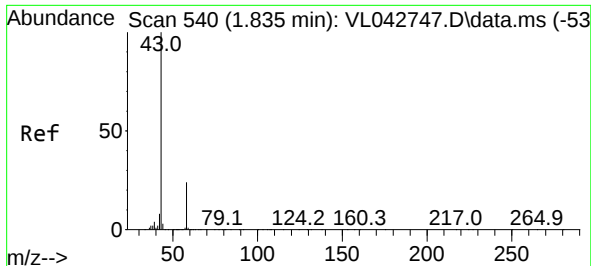
Tgt Ion: 45 Resp: 4604154
Ion Ratio Lower Upper
45 100
46 40.0 17.8 71.4



#14
Bromoethene
Concen: 0.025 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 108 Resp: 154
Ion Ratio Lower Upper
108 100
106 0.0 84.7 127.1#
79 241.6 17.4 26.2#

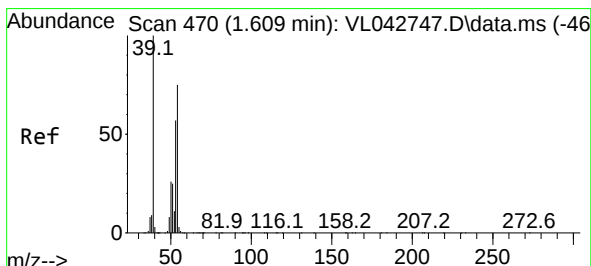
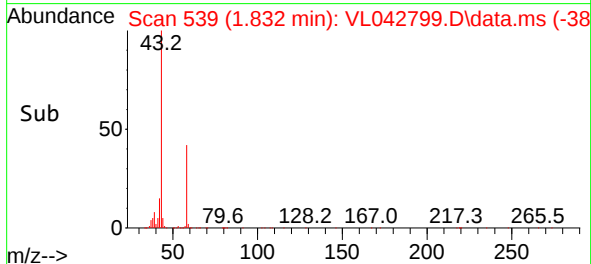
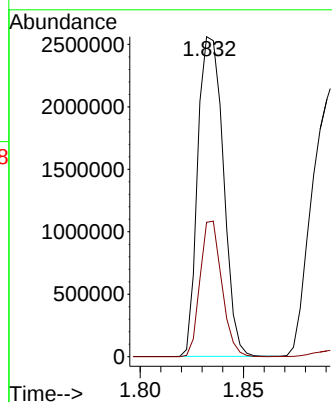
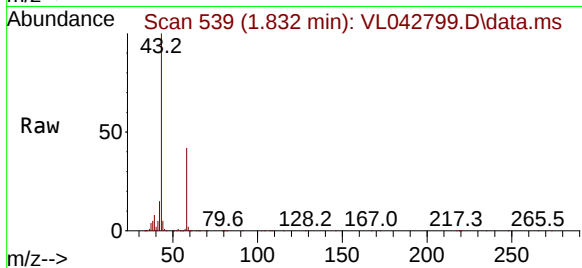




#15
Acetone
Concen: 94.786 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

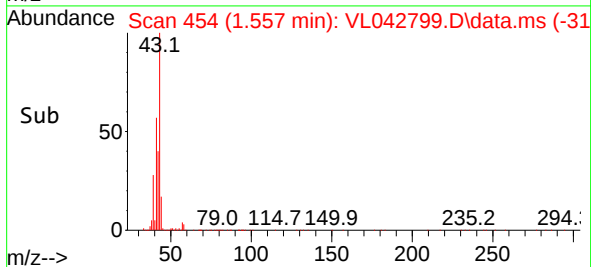
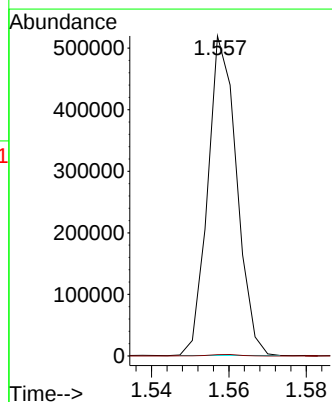
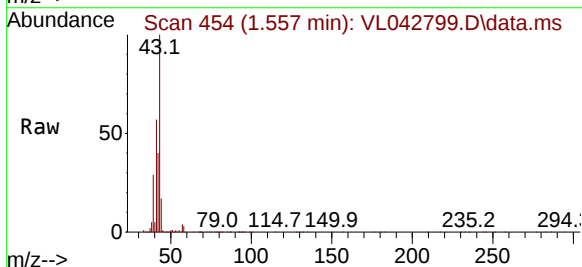
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

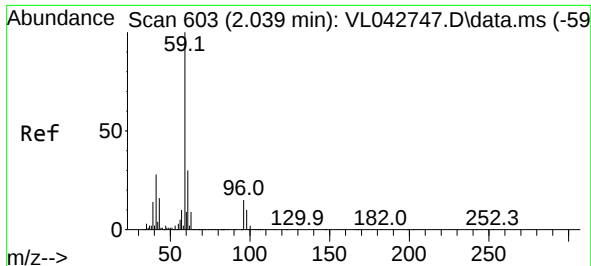
Tgt Ion: 43 Resp: 2199380
Ion Ratio Lower Upper
43 100
58 36.1 19.8 29.8#



#16
1,3-Butadiene
Concen: 27.159 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 39 Resp: 268799
Ion Ratio Lower Upper
39 100
54 0.5 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 408.119 ppbv

RT: 1.994 min Scan# 575

Delta R.T. -0.045 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

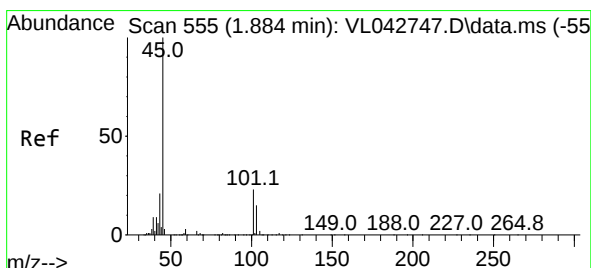
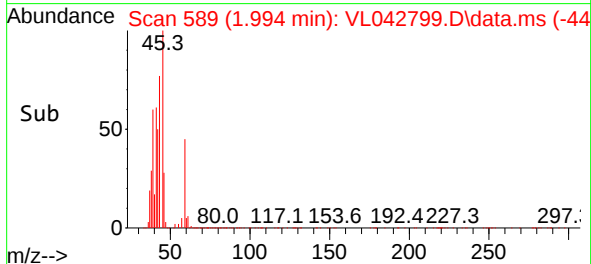
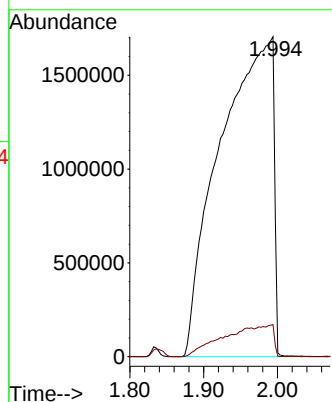
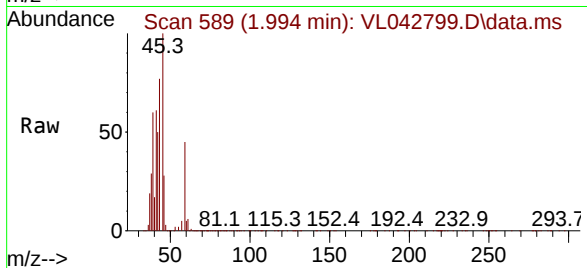
WONDER IA-2

Tgt Ion: 59 Resp: 8540848

Ion Ratio Lower Upper

59 100

57 9.2 8.3 12.5



#19

Isopropyl Alcohol

Concen: 1293.927 ppbv

RT: 1.949 min Scan# 575

Delta R.T. 0.065 min

Lab File: VL042799.D

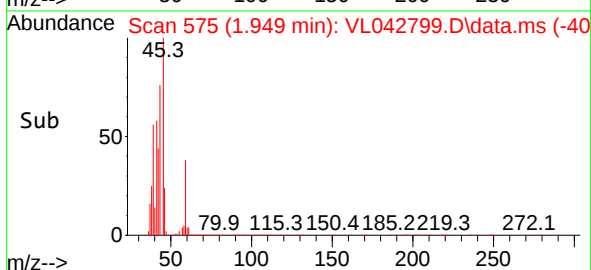
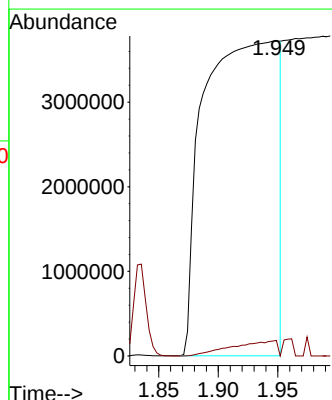
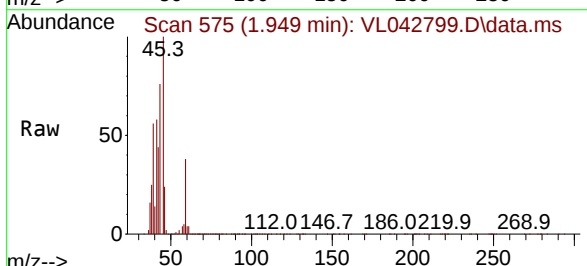
Acq: 04 Aug 2025 11:49

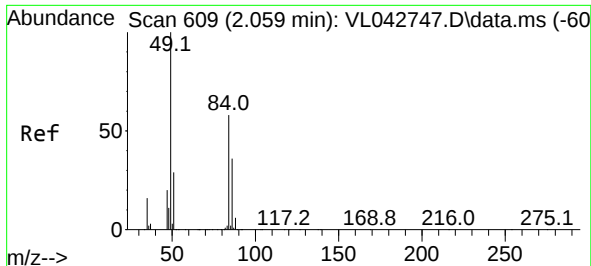
Tgt Ion: 45 Resp:15955054

Ion Ratio Lower Upper

45 100

58 3.9 30.0 45.0#

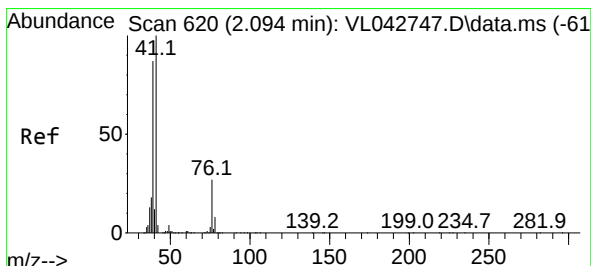
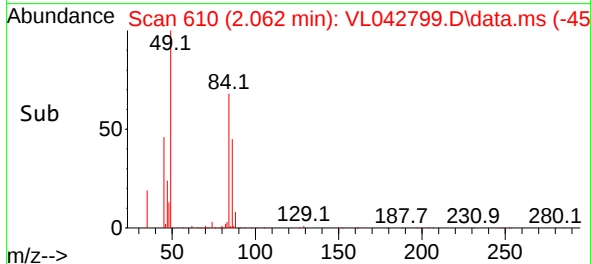
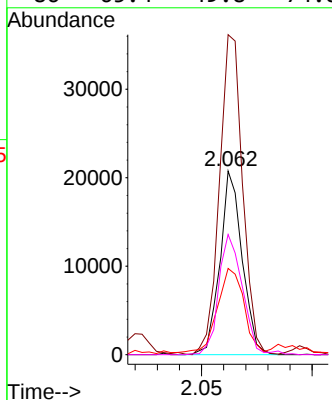
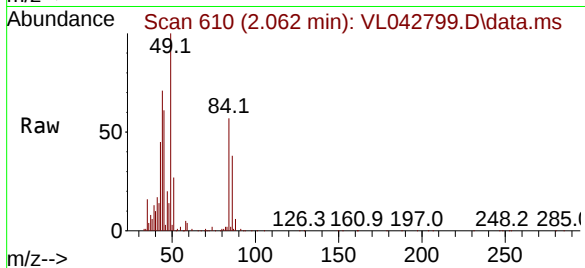




#20
Methylene Chloride
Concen: 1.977 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

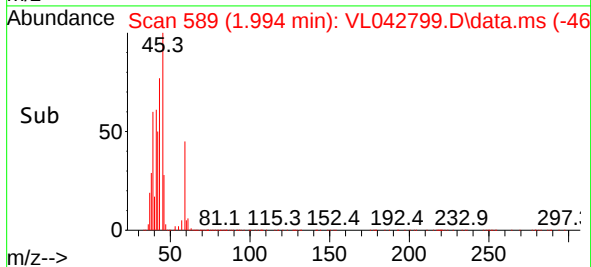
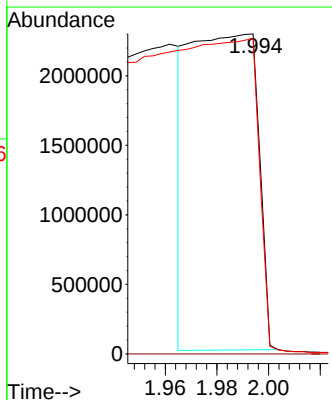
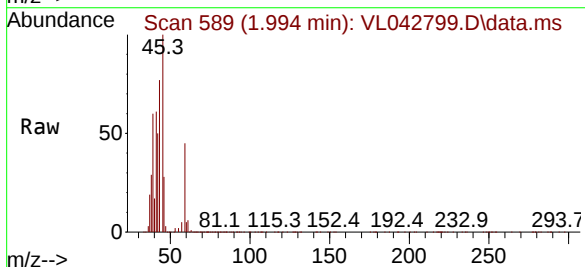
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

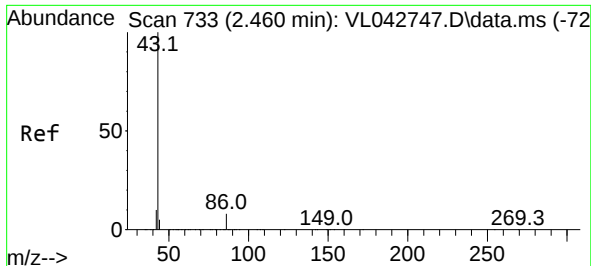
Tgt Ion: 84 Resp: 14457
Ion Ratio Lower Upper
84 100
49 173.8 138.6 208.0
51 45.5 40.6 61.0
86 65.4 49.8 74.8



#21
Allyl Chloride
Concen: 290.431 ppbv
RT: 1.994 min Scan# 589
Delta R.T. -0.100 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 41 Resp: 4153383
Ion Ratio Lower Upper
41 100
76 1.7 21.1 31.7#
39 314.6 68.3 102.5#

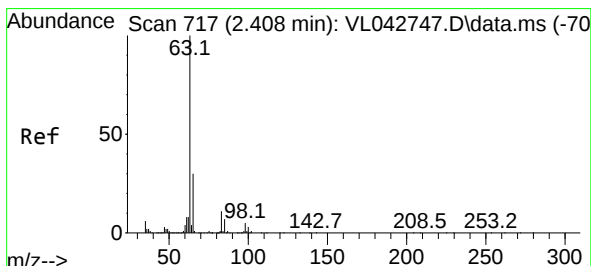
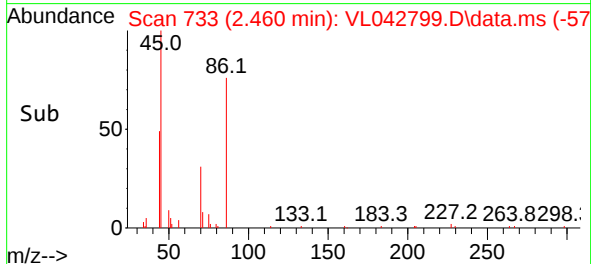
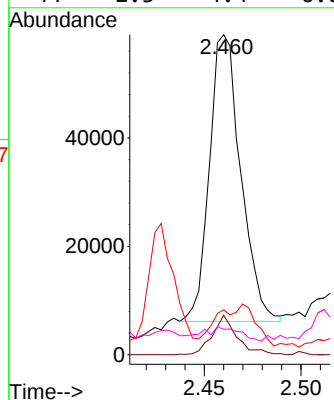
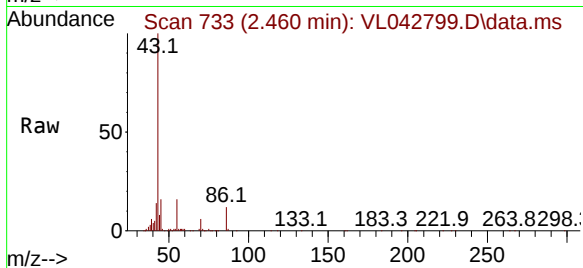




#23
 Vinyl Acetate
 Concen: 2.120 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

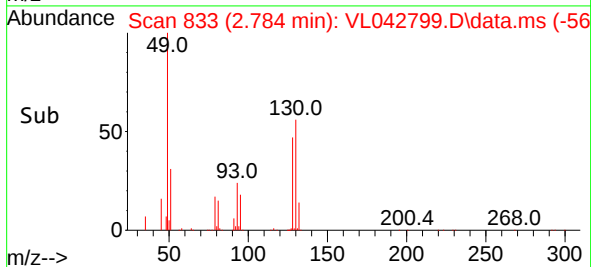
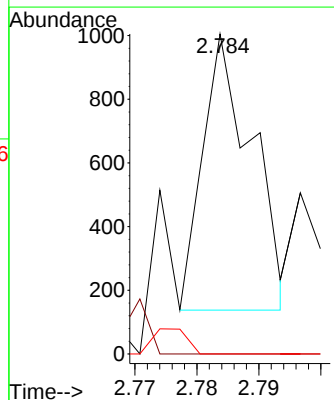
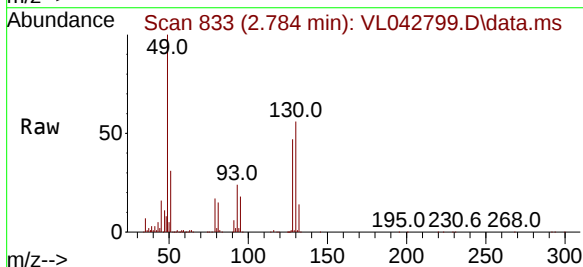
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-2

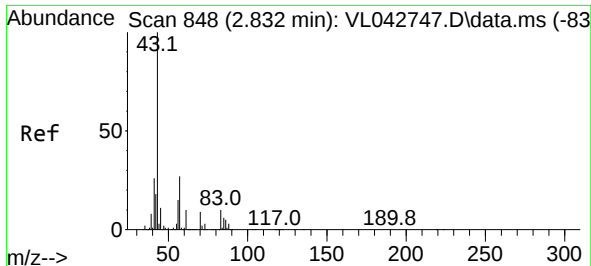
Tgt Ion:	43	Resp:	59640
Ion Ratio	Lower	Upper	
43	100		
86	13.6	6.1	9.1#
42	11.7	7.8	11.8
44	2.3	4.4	6.6#



#24
 1,1-Dichloroethane
 Concen: 0.028 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. 0.375 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Tgt Ion:	63	Resp:	479
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.5	7.4#
100	0.0	1.6	4.8#

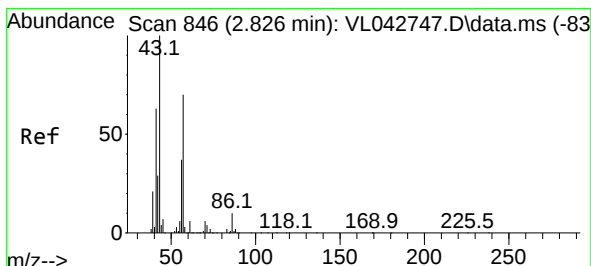
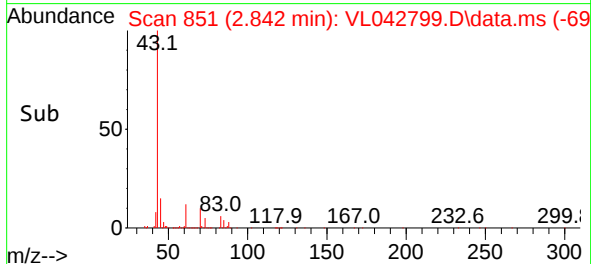
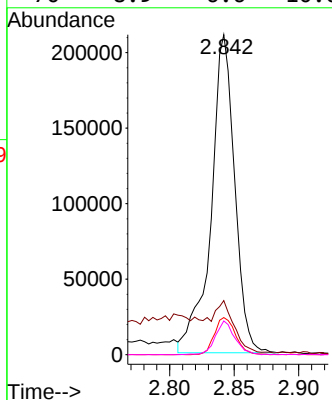
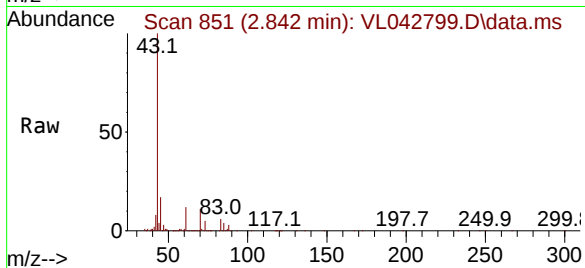




#25
Ethyl Acetate
Concen: 5.215 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

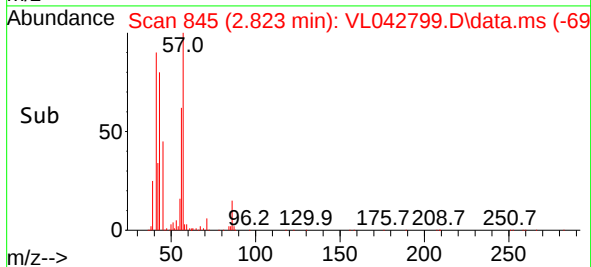
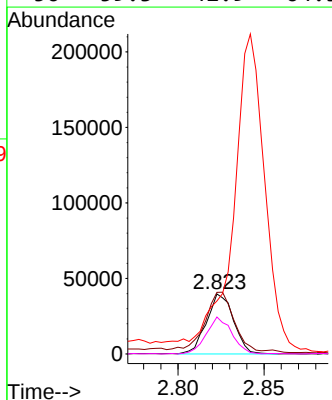
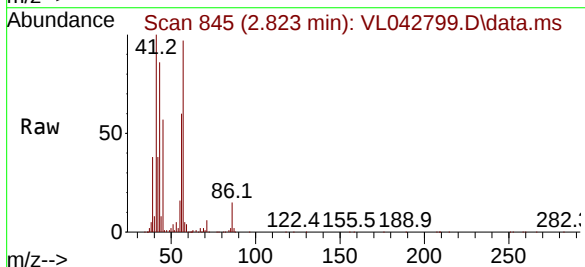
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

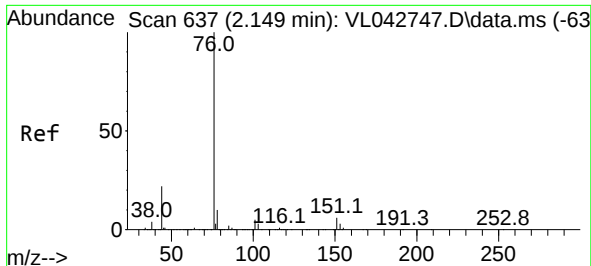
Tgt Ion: 43 Resp: 267867
Ion Ratio Lower Upper
43 100
45 28.6 7.8 11.6#
61 10.5 6.7 10.1#
70 8.9 6.6 10.0



#26
Hexane
Concen: 1.926 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 43398
Ion Ratio Lower Upper
57 100
41 115.1 75.4 113.2#
43 680.3 185.0 277.6#
56 59.3 42.9 64.3

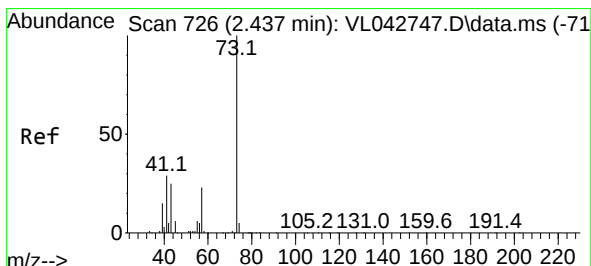
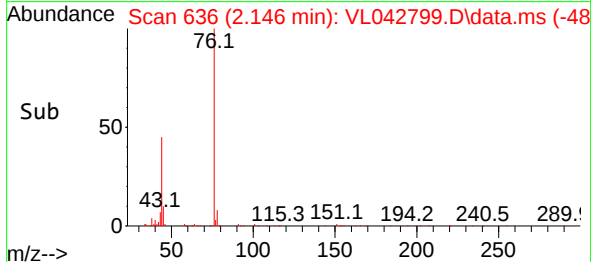
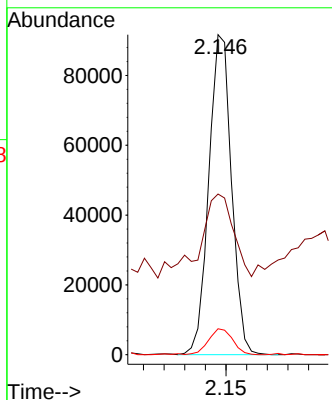
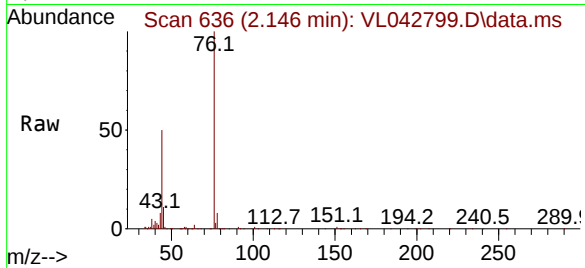




#27
Carbon Disulfide
Concen: 3.635 ppbv
RT: 2.146 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

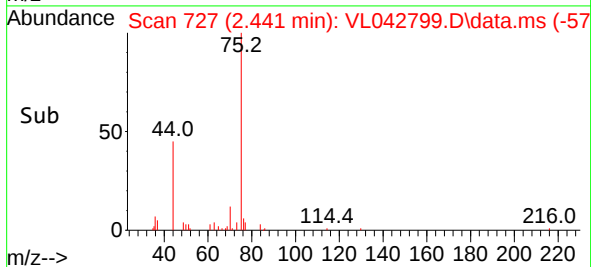
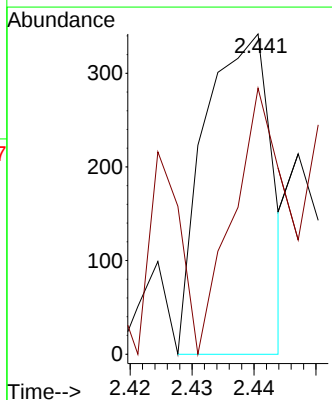
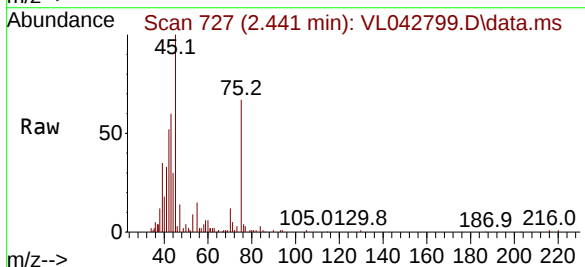
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

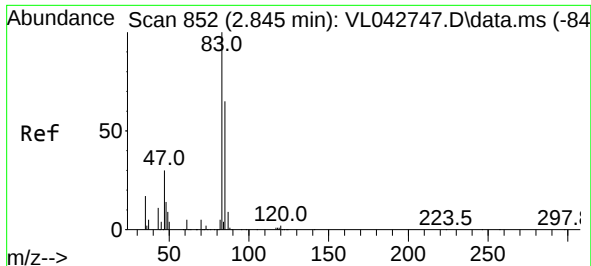
Tgt Ion: 76 Resp: 70116
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9#
78 9.0 9.9 14.9#



#28
Methyl tert-Butyl Ether
Concen: 0.024 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 73 Resp: 259
Ion Ratio Lower Upper
73 100
57 0.0 19.8 29.8#





#29

Chloroform

Concen: 0.819 ppbv

RT: 2.848 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_1

ClientSampleId :

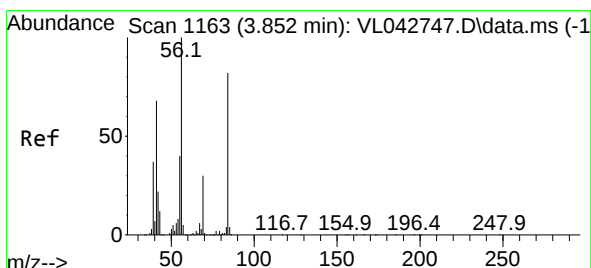
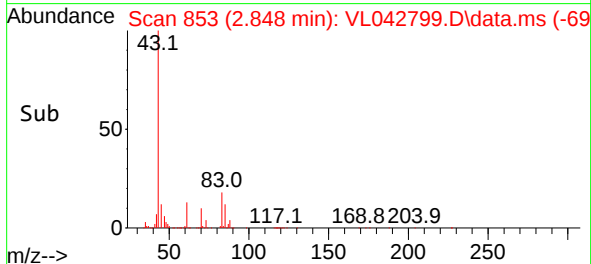
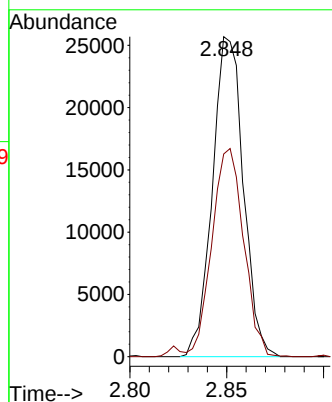
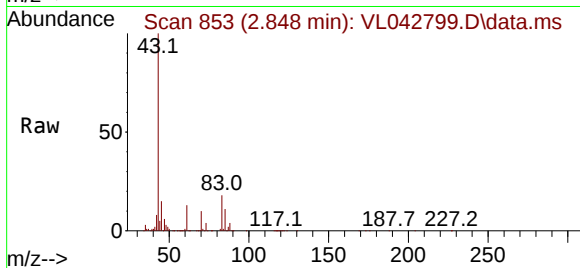
WONDER IA-2

Tgt Ion: 83 Resp: 28519

Ion Ratio Lower Upper

83 100

85 63.1 52.2 78.2



#30

Cyclohexane

Concen: 0.053 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

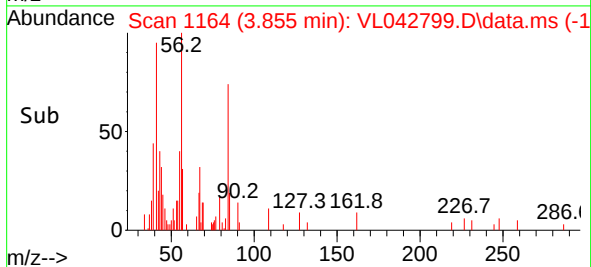
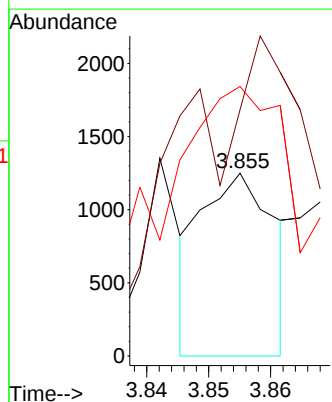
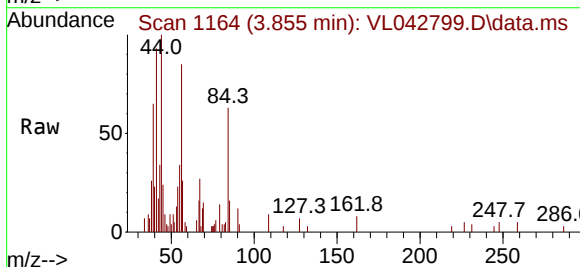
Tgt Ion: 84 Resp: 1020

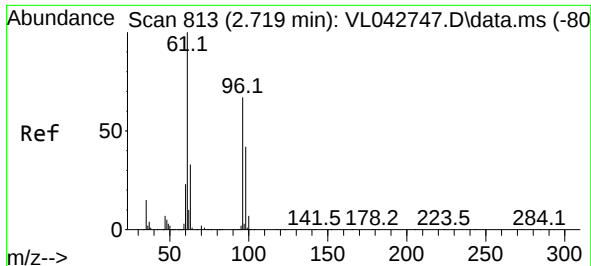
Ion Ratio Lower Upper

84 100

56 308.9 97.5 146.3#

41 203.5 67.2 100.8#

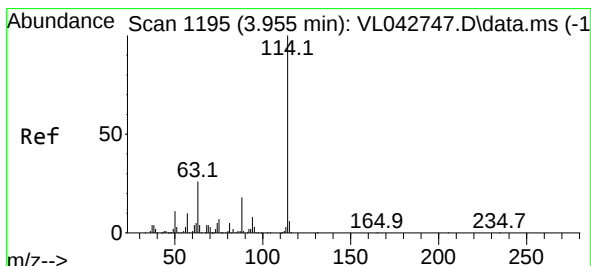
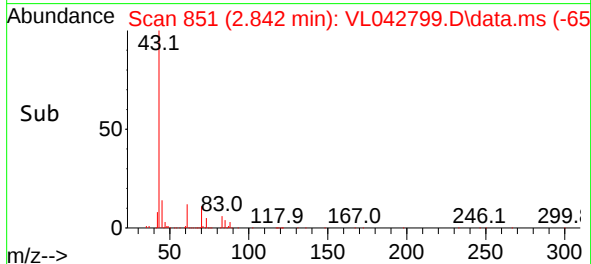
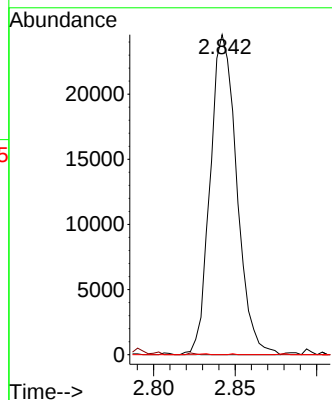
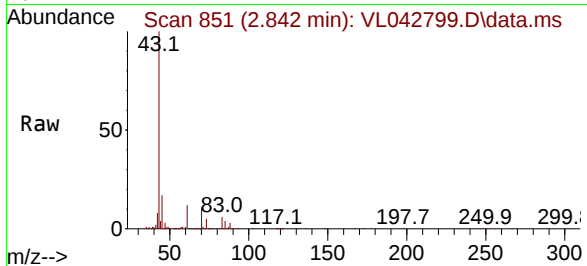




#31
 cis-1,2-Dichloroethene
 Concen: 1.203 ppbv
 RT: 2.842 min Scan# 813
 Delta R.T. 0.123 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

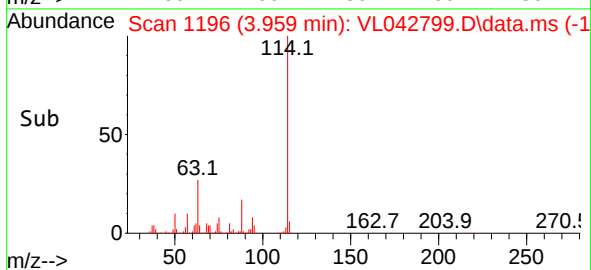
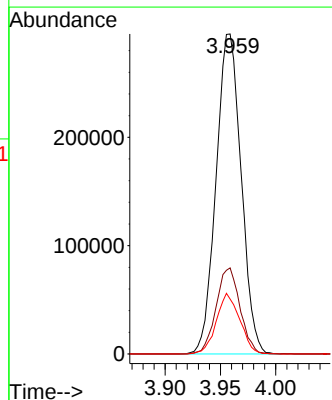
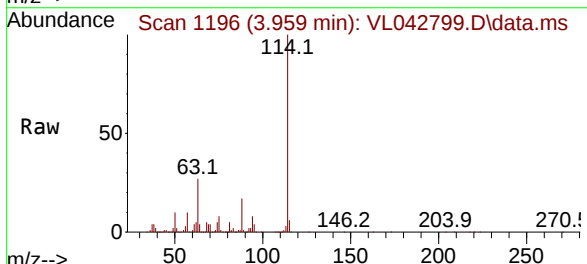
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-2

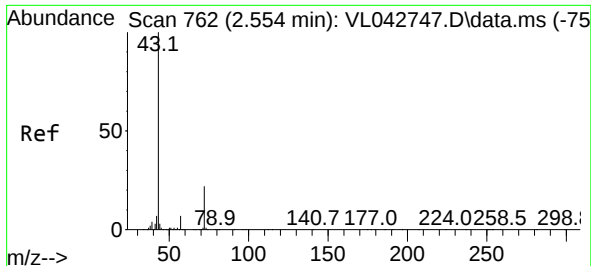
Tgt Ion: 61 Resp: 27854
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.5 80.3#
 98 0.0 33.6 50.4#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.003 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Tgt Ion: 114 Resp: 466299
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.5 30.7
 88 17.7 14.0 21.0

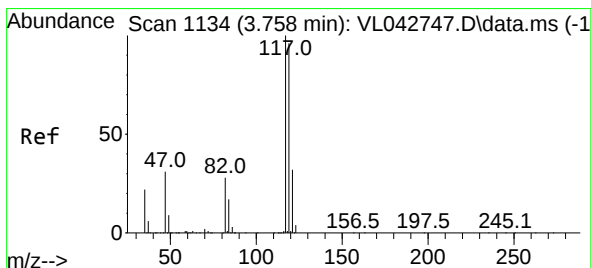
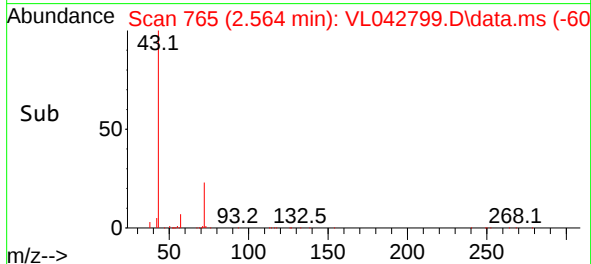
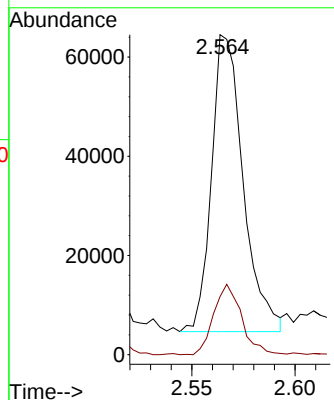
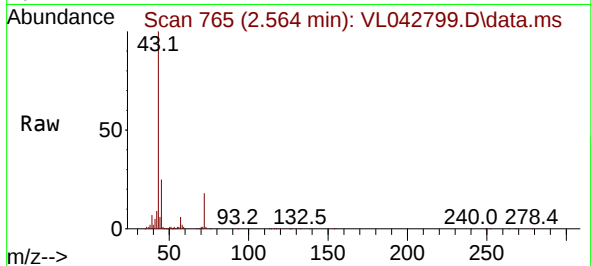




#34
2-Butanone
Concen: 1.929 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

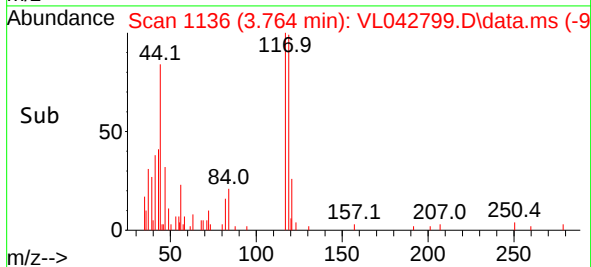
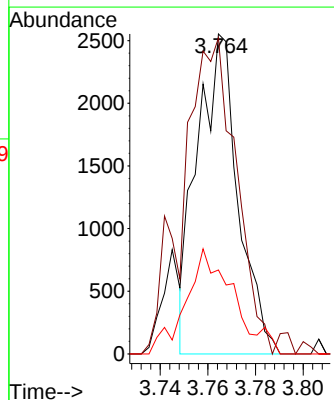
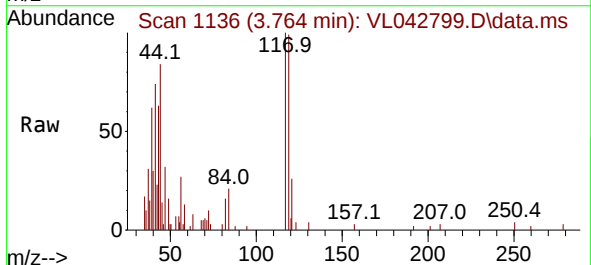
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

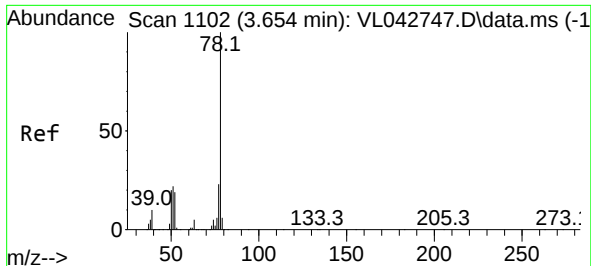
Tgt Ion: 43 Resp: 63731
Ion Ratio Lower Upper
43 100
72 21.4 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.088 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 117 Resp: 3049
Ion Ratio Lower Upper
117 100
119 92.5 77.1 115.7
121 26.2 25.5 38.3

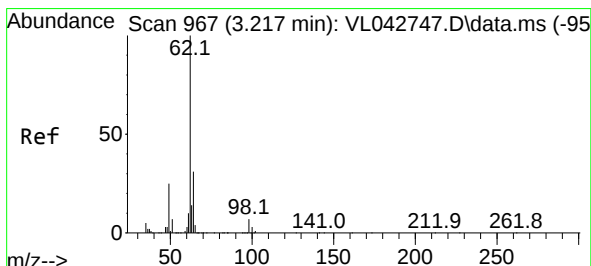
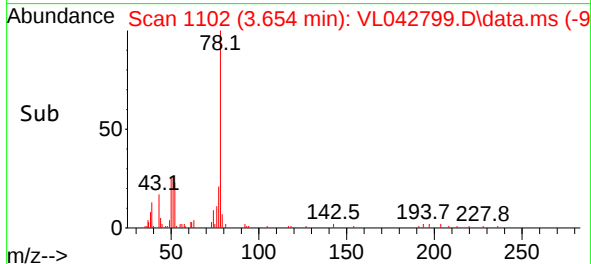
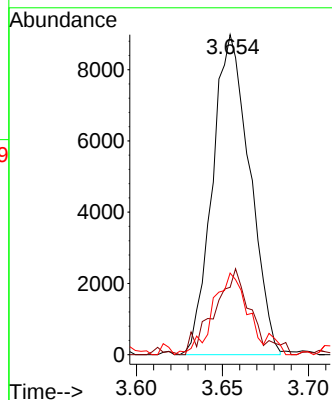
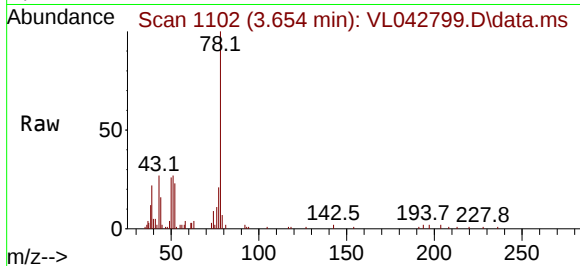




#36
Benzene
Concen: 0.307 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

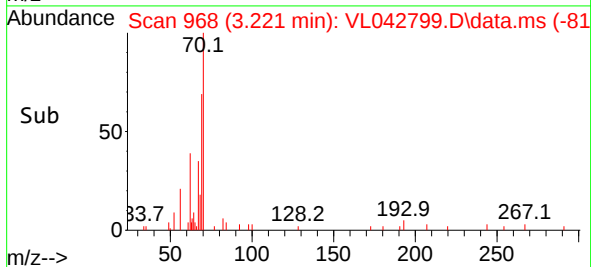
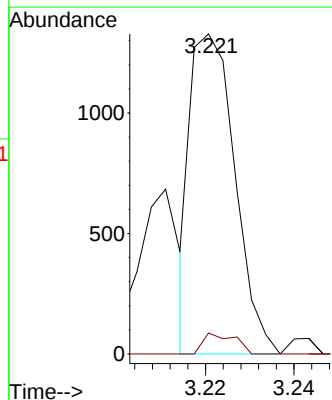
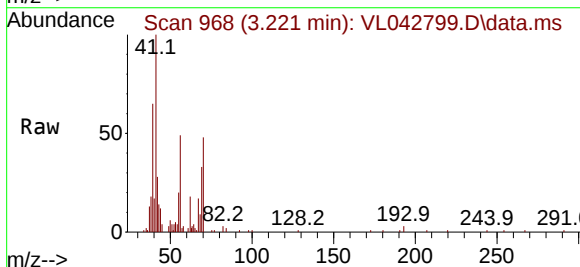
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

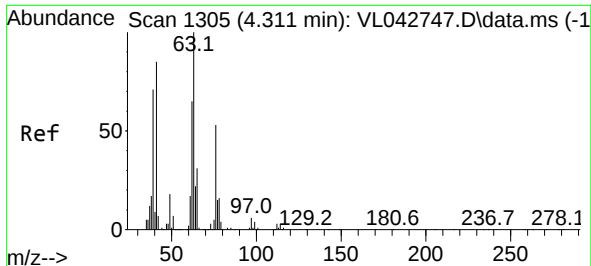
Tgt Ion:	78	Resp:	13550
Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.5	27.7
50	22.6	16.2	24.2



#37
1,2-Dichloroethane
Concen: 0.035 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:	62	Resp:	932
Ion	Ratio	Lower	Upper
62	100		
98	4.6	5.2	7.8#





#39

1,2-Dichloropropane

Concen: 7.332 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_1

ClientSampleId :

WONDER IA-2

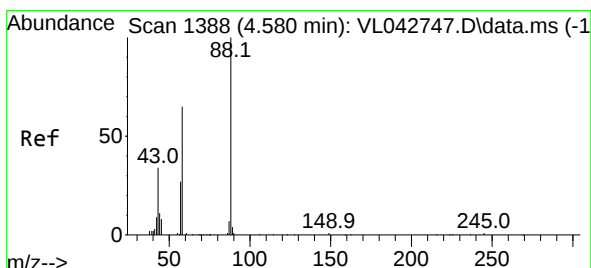
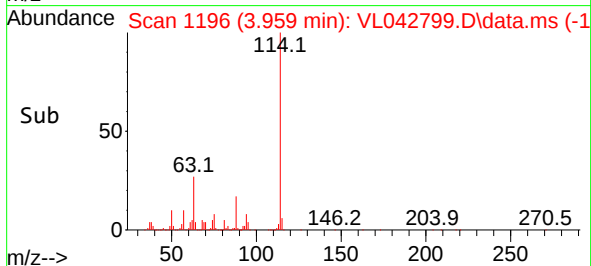
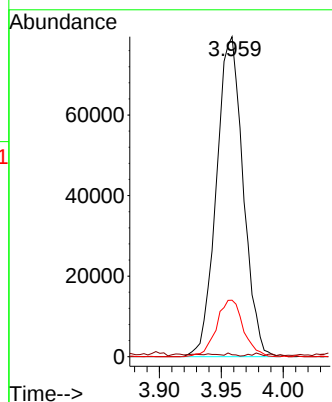
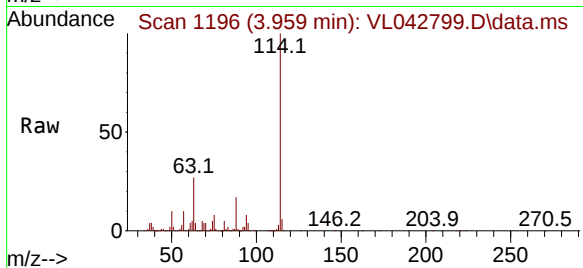
Tgt Ion: 63 Resp: 119604

Ion Ratio Lower Upper

63 100

41 0.4 68.2 102.4#

62 17.7 52.0 78.0#



#40

1,4-Dioxane

Concen: 0.045 ppbv

RT: 4.609 min Scan# 1397

Delta R.T. 0.029 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Tgt Ion: 88 Resp: 344

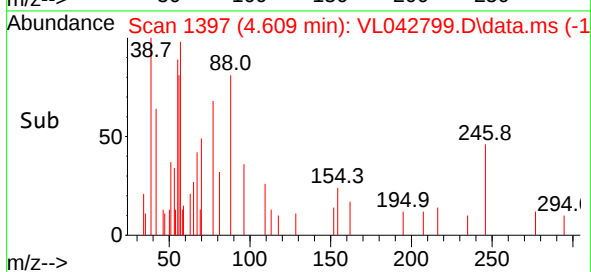
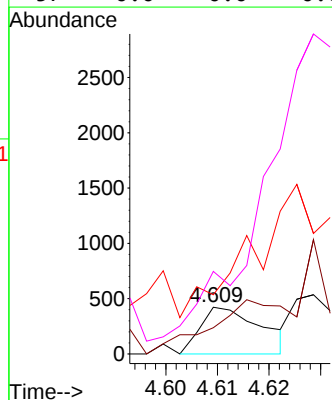
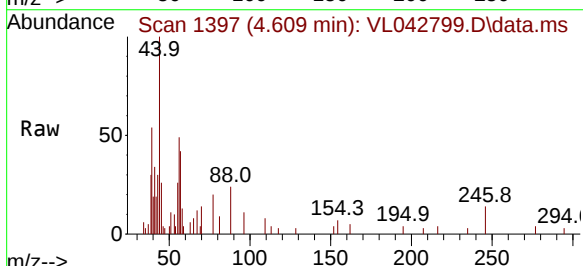
Ion Ratio Lower Upper

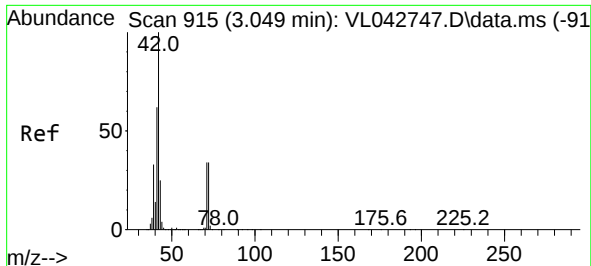
88 100

58 88.7 58.8 88.2#

43 341.9 28.9 43.3#

57 0.0 0.0 0.0

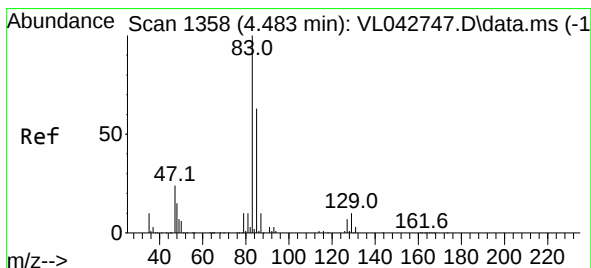
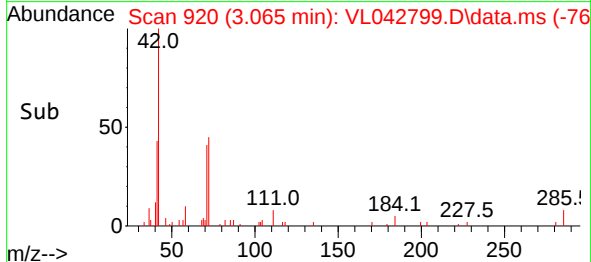
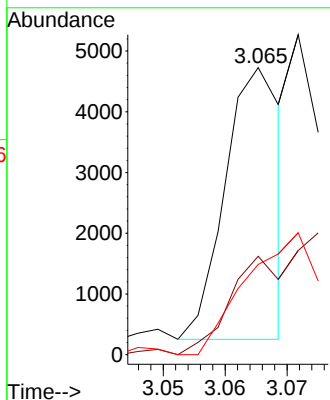
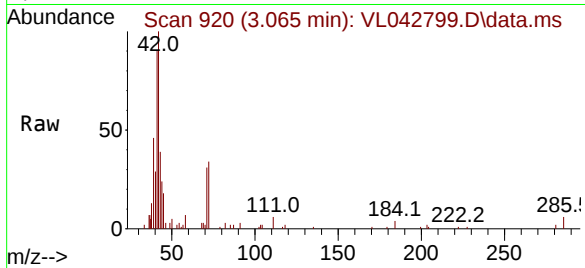




#41
Tetrahydrofuran
Concen: 0.167 ppbv
RT: 3.065 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

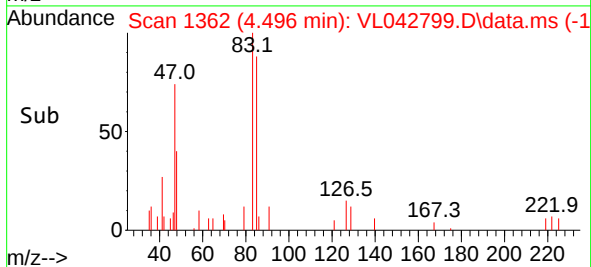
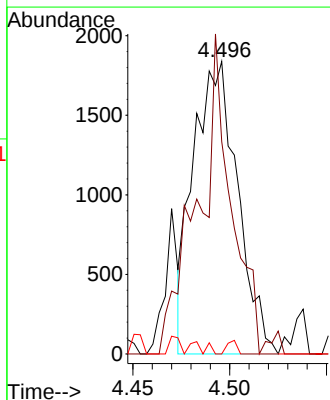
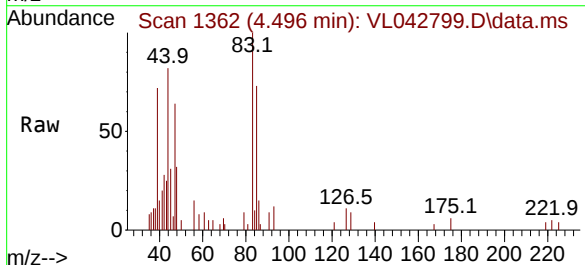
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

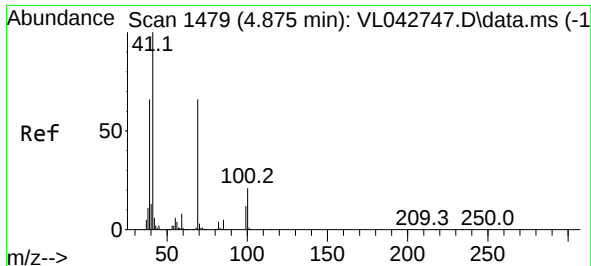
Tgt Ion: 42 Resp: 2814
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#



#42
Bromodichloromethane
Concen: 0.084 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.013 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 83 Resp: 2923
Ion Ratio Lower Upper
83 100
85 64.8 50.2 75.4
127 0.0 5.4 8.2#

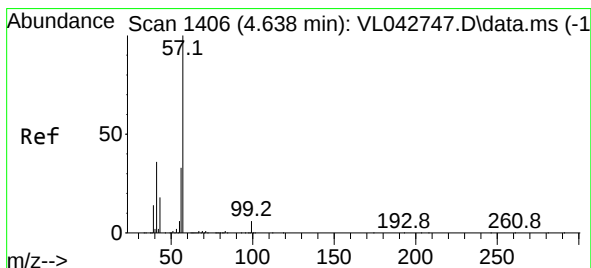
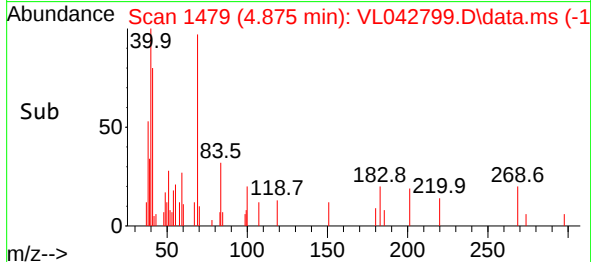
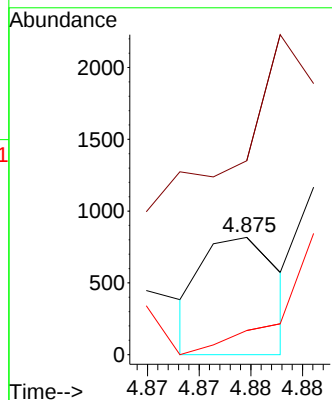
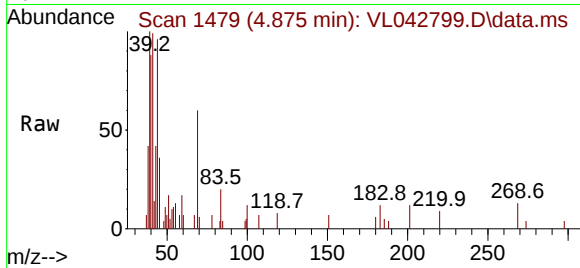




#43
Methyl Methacrylate
Concen: 0.027 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

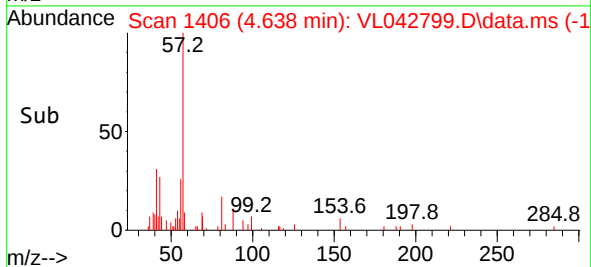
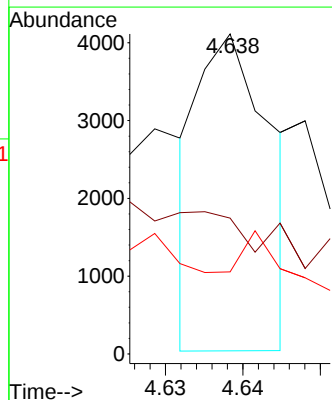
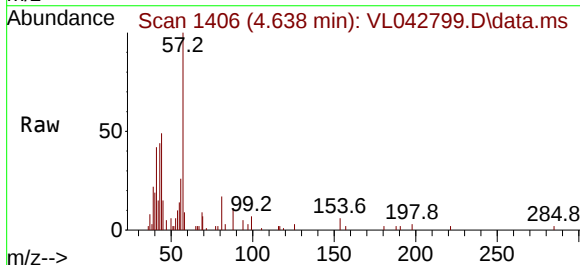
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

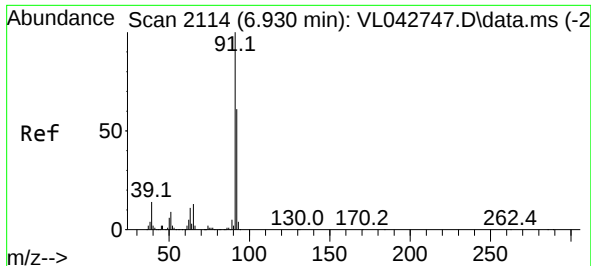
Tgt Ion: 69 Resp: 419
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.037 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 57 Resp: 2638
Ion Ratio Lower Upper
57 100
41 0.0 28.3 42.5#
56 172.9 25.8 38.6#

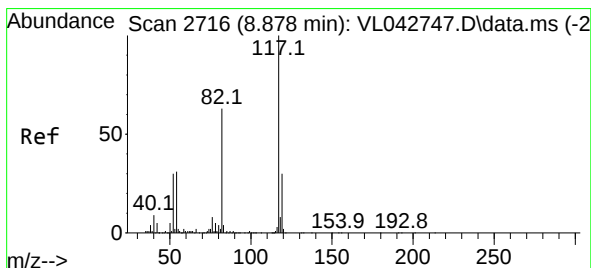
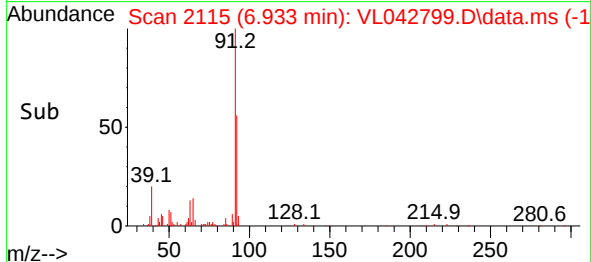
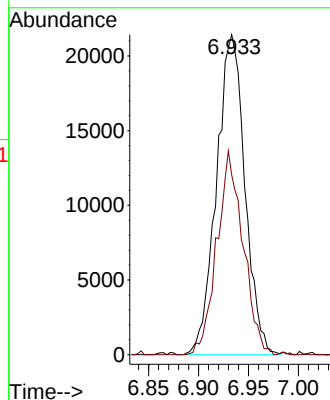
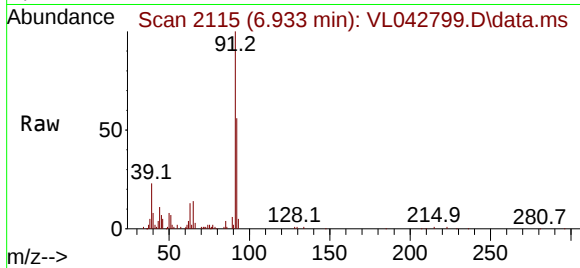




#53
Toluene
Concen: 0.893 ppbv
RT: 6.933 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

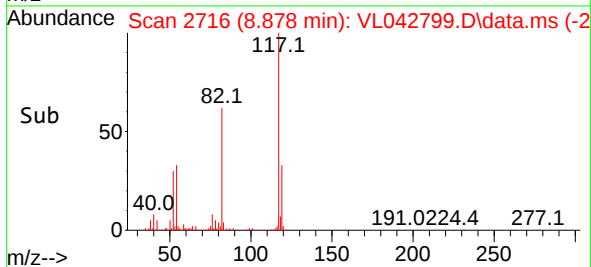
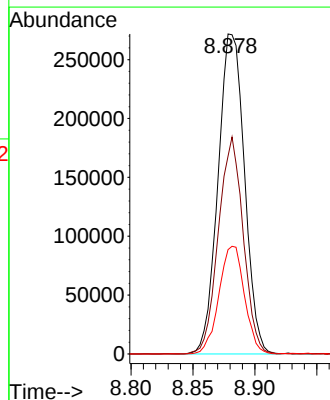
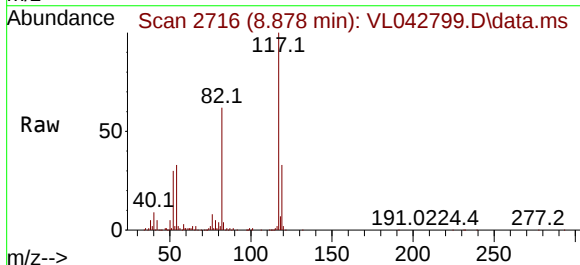
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

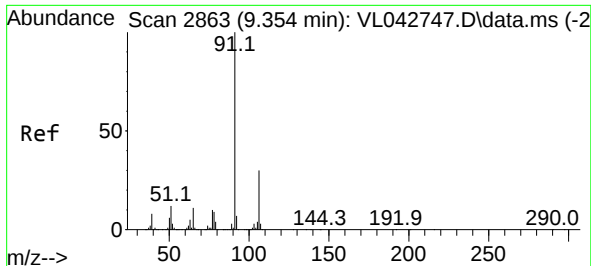
Tgt Ion: 91 Resp: 42388
Ion Ratio Lower Upper
91 100
92 58.8 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 117 Resp: 405142
Ion Ratio Lower Upper
117 100
82 63.6 53.3 79.9
119 32.7 25.8 38.6

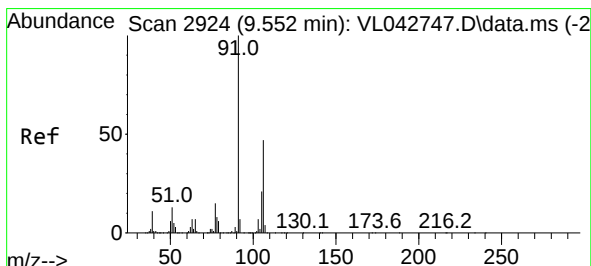
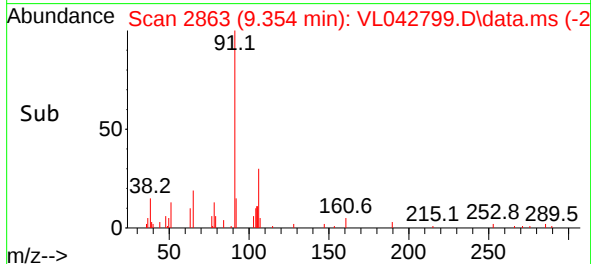
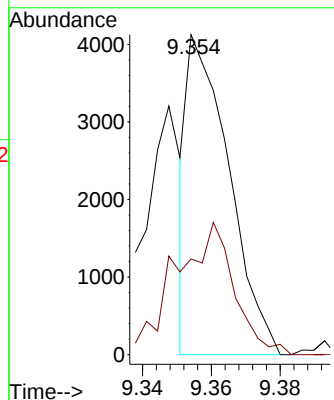
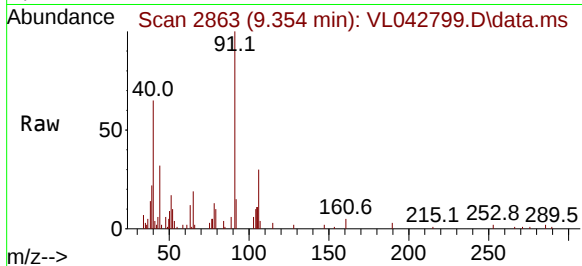




#58
Ethyl Benzene
Concen: 0.055 ppbv
RT: 9.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

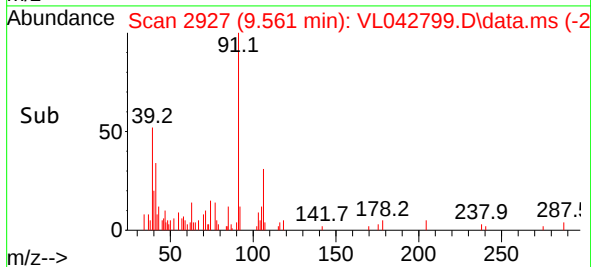
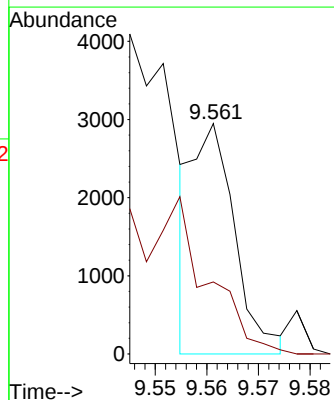
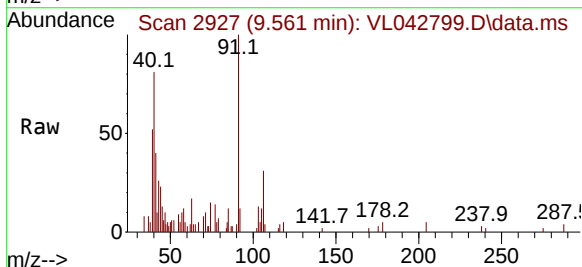
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

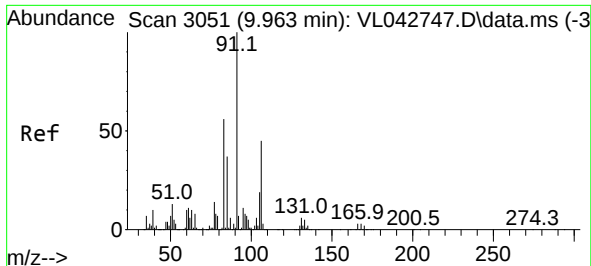
Tgt Ion: 91 Resp: 3490
Ion Ratio Lower Upper
91 100
106 26.7 23.8 35.6



#59
m/p-Xylene
Concen: 0.032 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. 0.010 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 1661
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

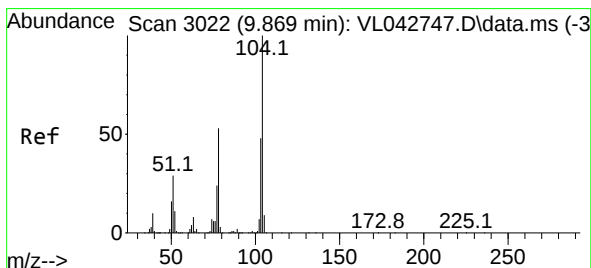
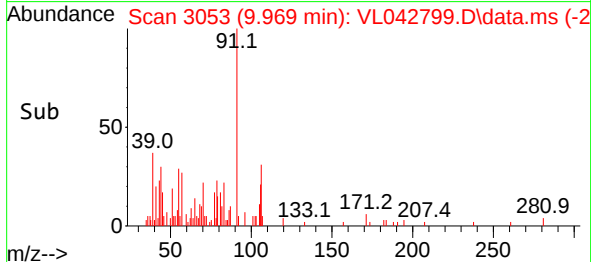
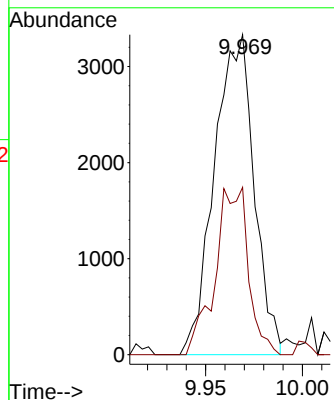
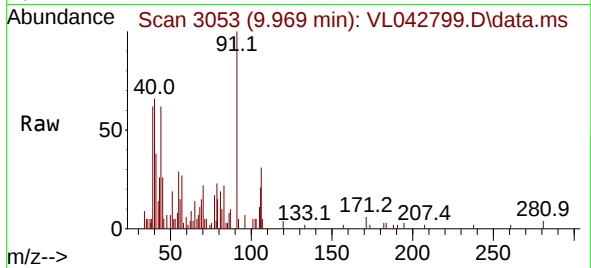




#60
o-Xylene
Concen: 0.093 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.006 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

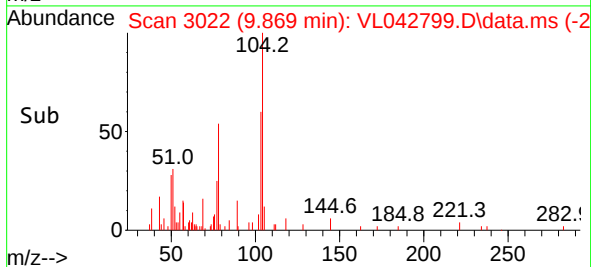
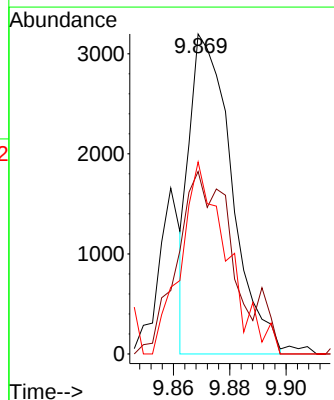
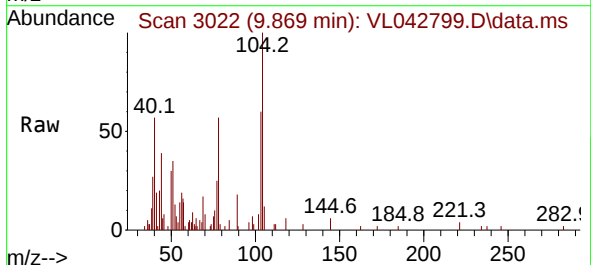
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

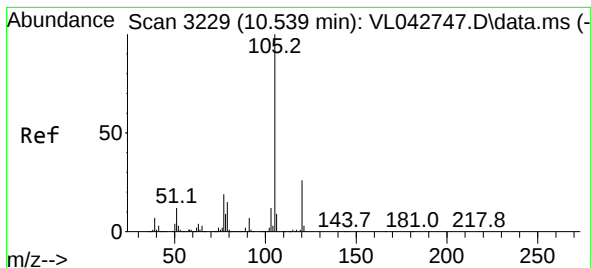
Tgt Ion: 91 Resp: 4755
Ion Ratio Lower Upper
91 100
106 45.0 22.0 66.0



#61
Styrene
Concen: 0.154 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:104 Resp: 3306
Ion Ratio Lower Upper
104 100
78 77.4 41.5 62.3#
103 69.4 37.5 56.3#





#62

Isopropylbenzene

Concen: 0.024 ppbv

RT: 10.542 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_1

ClientSampleId :

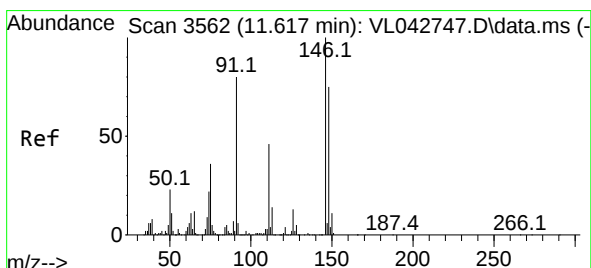
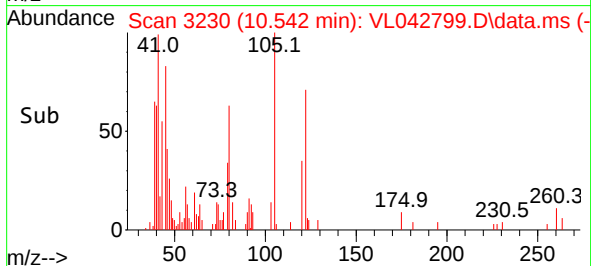
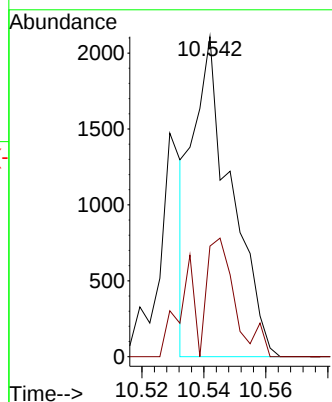
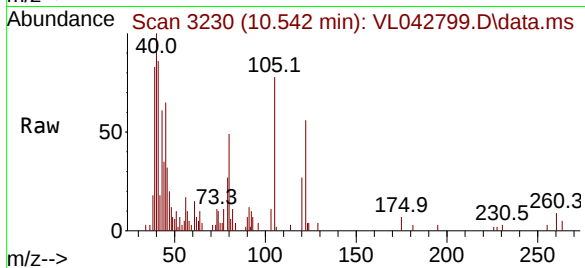
WONDER IA-2

Tgt Ion:105 Resp: 1812

Ion Ratio Lower Upper

105 100

120 39.8 20.5 30.7#



#66

Benzyl Chloride

Concen: 2.249 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. -0.071 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

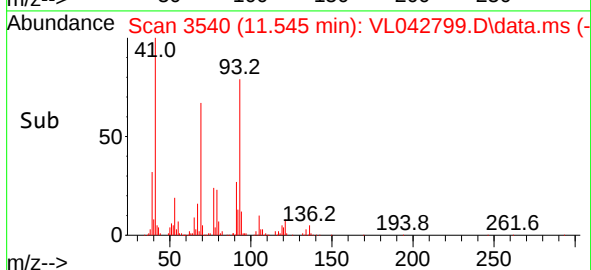
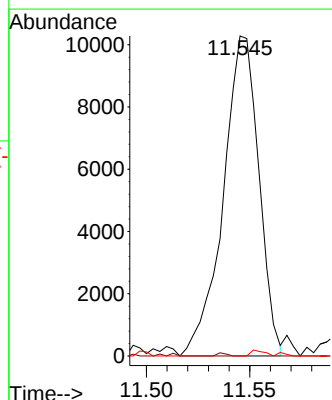
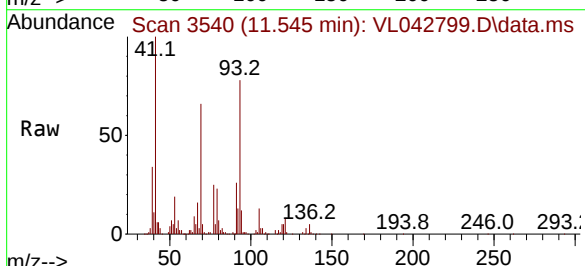
Tgt Ion: 91 Resp: 12357

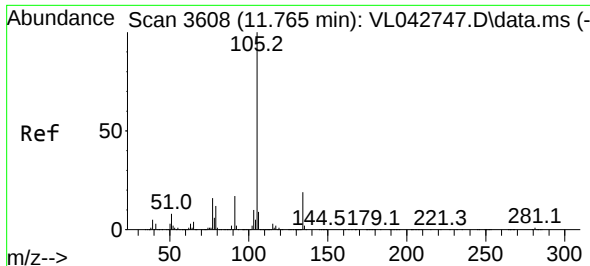
Ion Ratio Lower Upper

91 100

126 0.3 14.4 21.6#

128 0.9 5.2 7.8#

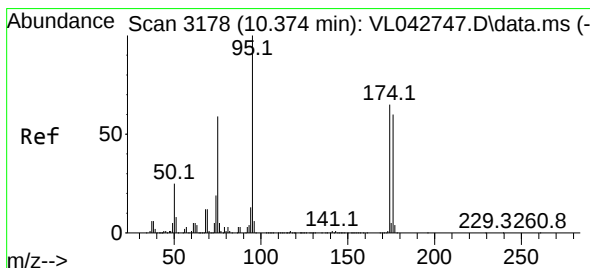
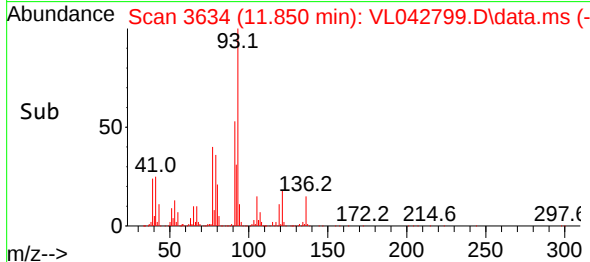
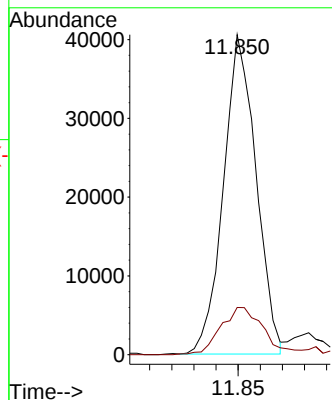
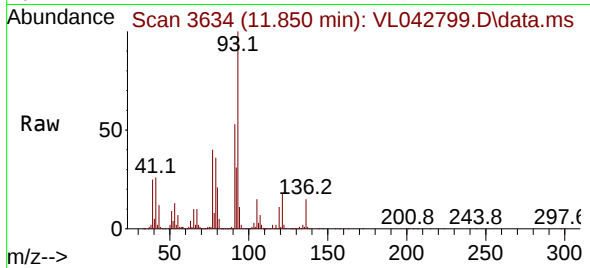




#67
 sec-Butylbenzene
 Concen: 0.436 ppbv
 RT: 11.850 min Scan# 3634
 Delta R.T. 0.084 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

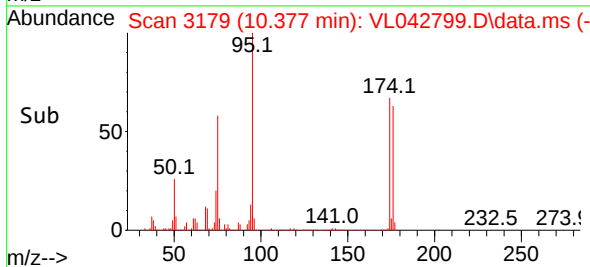
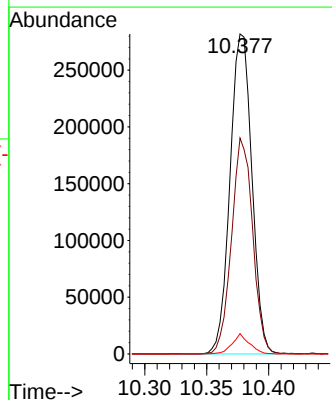
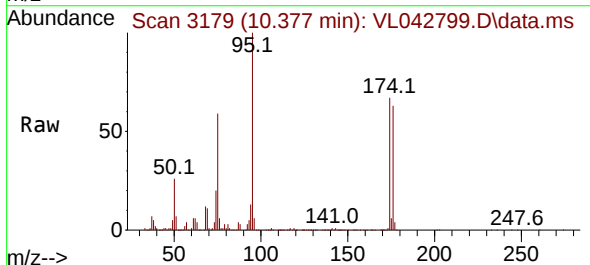
Instrument :
 MSVOA_1
 ClientSampleId :
 WONDER IA-2

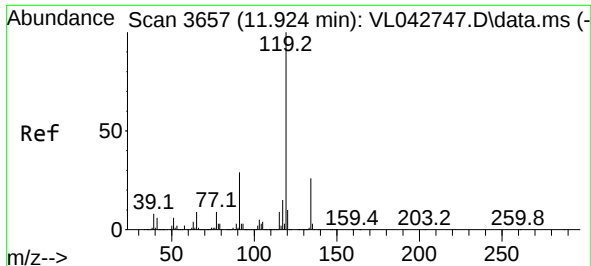
Tgt Ion:105 Resp: 41487
 Ion Ratio Lower Upper
 105 100
 134 20.7 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.794 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.003 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Tgt Ion: 95 Resp: 346336
 Ion Ratio Lower Upper
 95 100
 174 65.4 53.8 80.6
 175 5.0 4.0 6.0

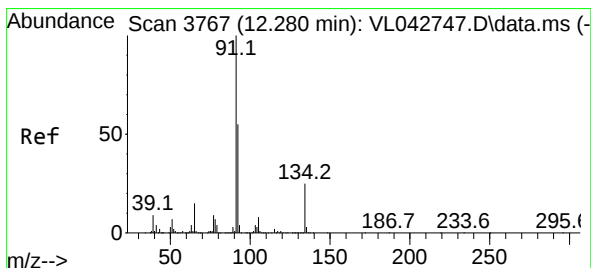
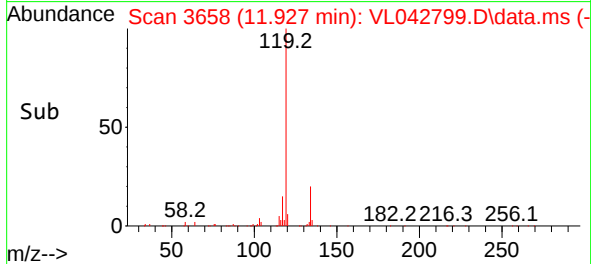
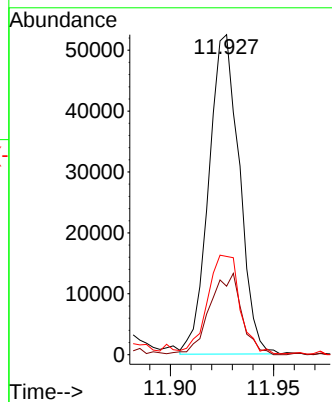
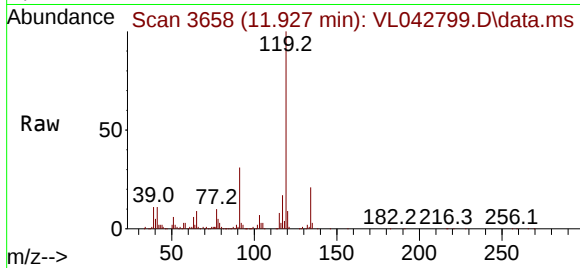




#69
p-Isopropyltoluene
Concen: 0.697 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

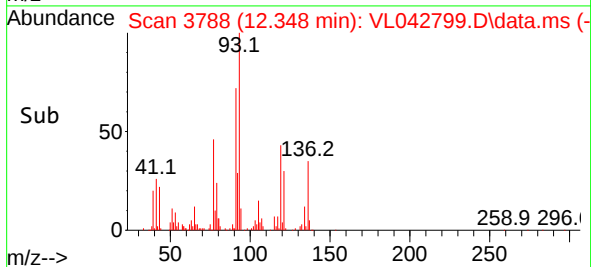
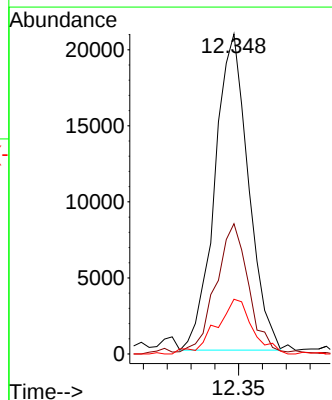
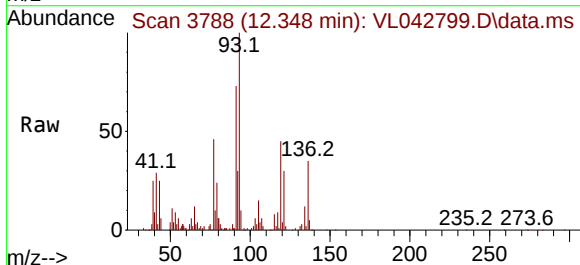
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

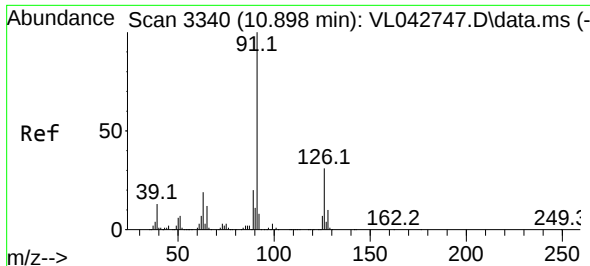
Tgt Ion:119 Resp: 54078
Ion Ratio Lower Upper
119 100
134 27.0 20.6 31.0
91 35.3 23.2 34.8#



#70
n-Butylbenzene
Concen: 0.272 ppbv
RT: 12.348 min Scan# 3788
Delta R.T. 0.068 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion: 91 Resp: 20385
Ion Ratio Lower Upper
91 100
92 41.8 43.4 65.2#
134 19.1 19.6 29.4#

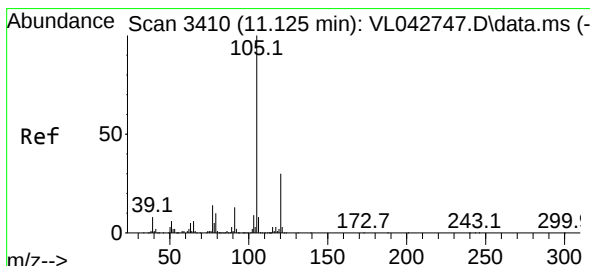
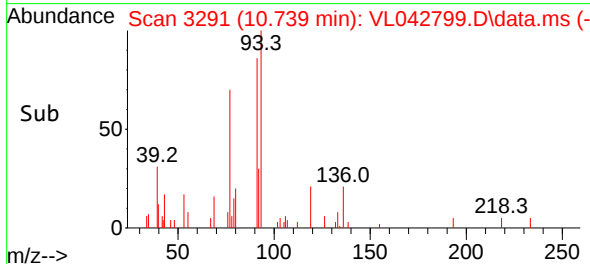
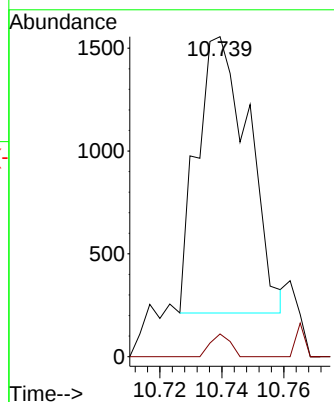
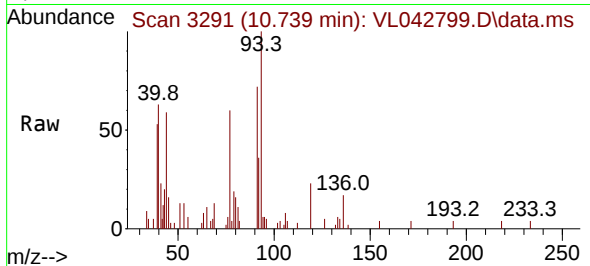




#71
2-Chlorotoluene
Concen: 0.027 ppbv
RT: 10.739 min Scan# 31
Delta R.T. -0.159 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

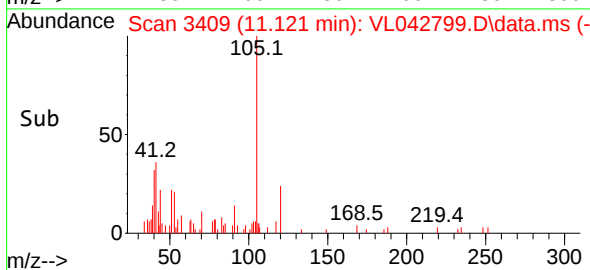
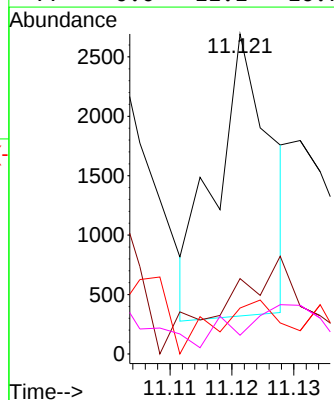
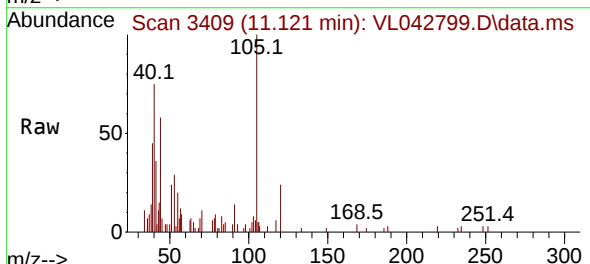
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-2

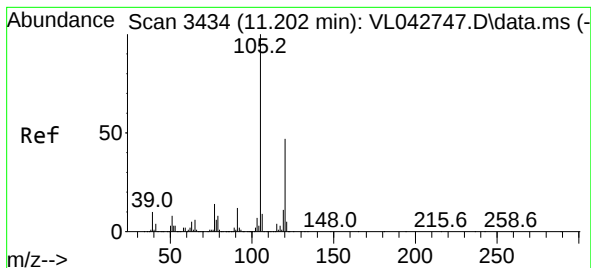
Tgt Ion: 91 Resp: 1555
Ion Ratio Lower Upper
91 100
126 14.5 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.024 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:105 Resp: 1455
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: 0.045 ppbv

RT: 11.205 min Scan# 3434

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_1

ClientSampleId :

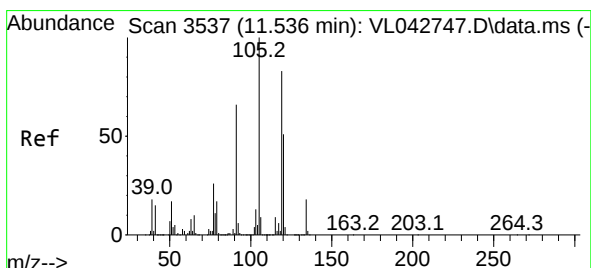
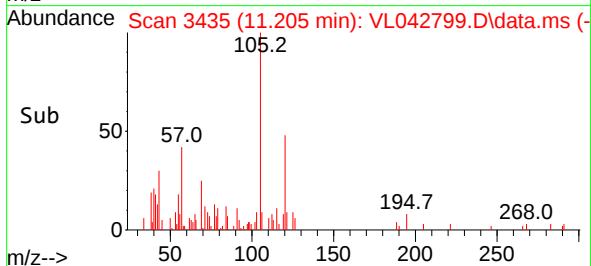
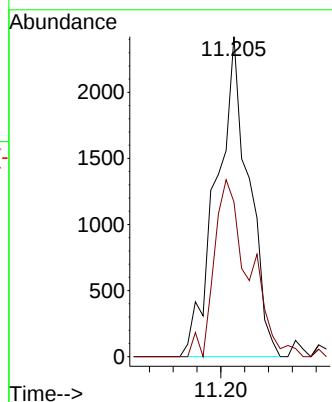
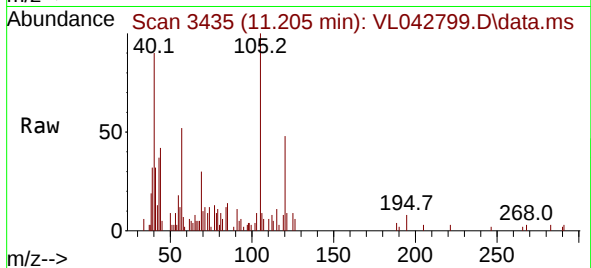
WONDER IA-2

Tgt Ion:105 Resp: 2278

Ion Ratio Lower Upper

105 100

120 48.4 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.178 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Tgt Ion:105 Resp: 9738

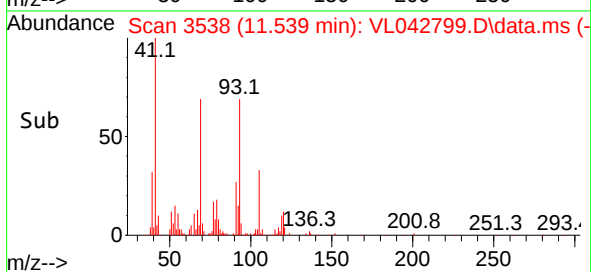
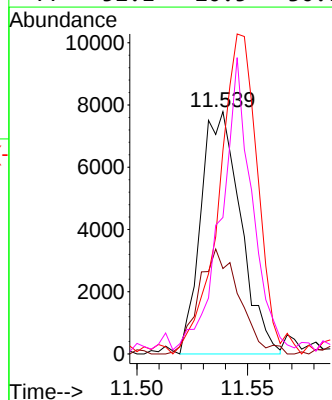
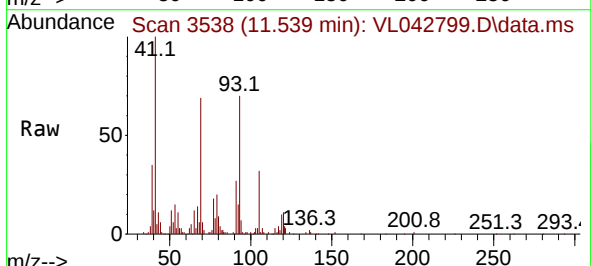
Ion Ratio Lower Upper

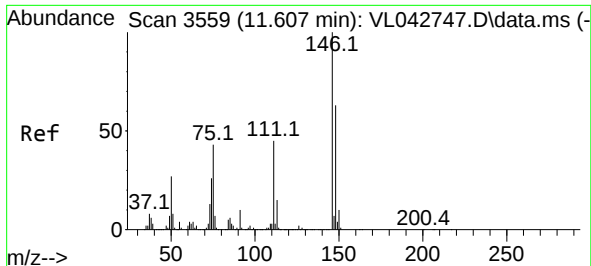
105 100

120 44.3 40.8 61.2

91 80.9 53.0 79.4#

77 52.1 20.5 30.7#

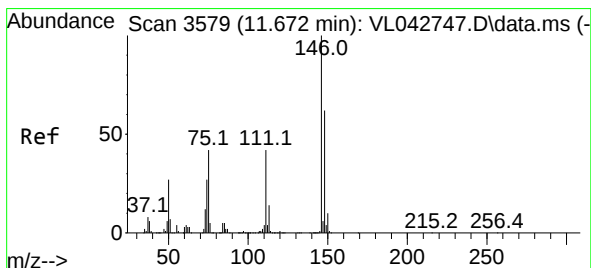
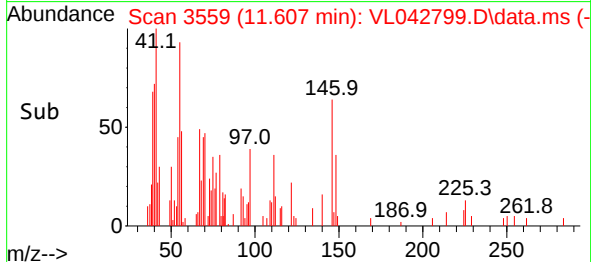
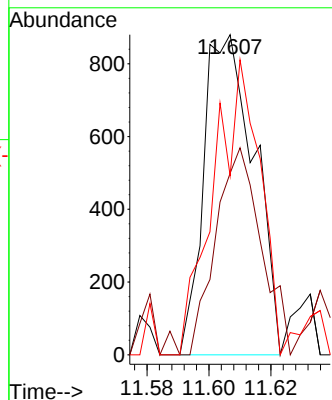
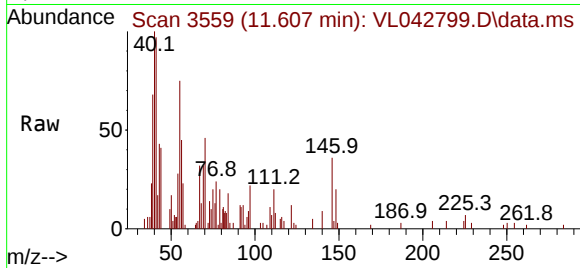




#75
1,3-Dichlorobenzene
Concen: 0.026 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

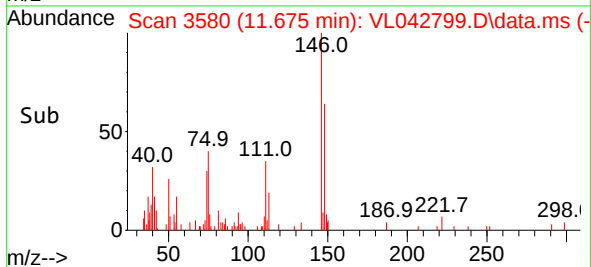
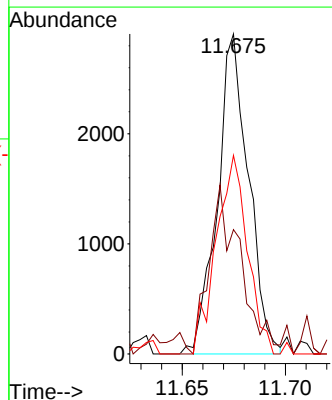
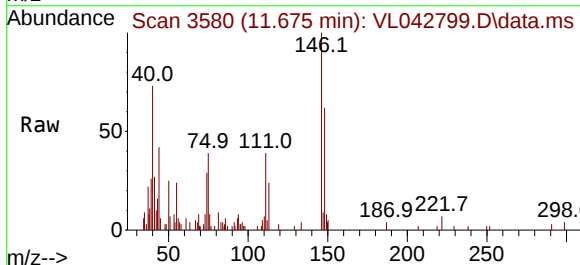
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

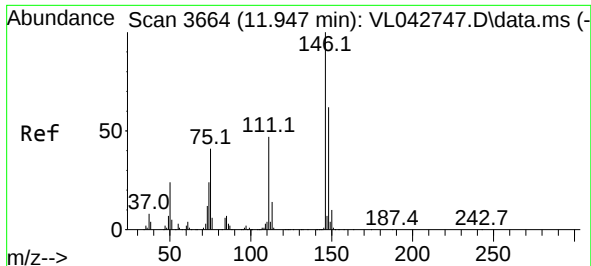
Tgt Ion:	146	Resp:	994
Ion Ratio	Lower	Upper	
146	100		
111	62.4	22.7	68.0
148	93.8	31.9	95.5



#76
1,4-Dichlorobenzene
Concen: 0.081 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:	146	Resp:	3042
Ion Ratio	Lower	Upper	
146	100		
111	66.2	21.4	64.2#
148	63.3	32.1	96.3

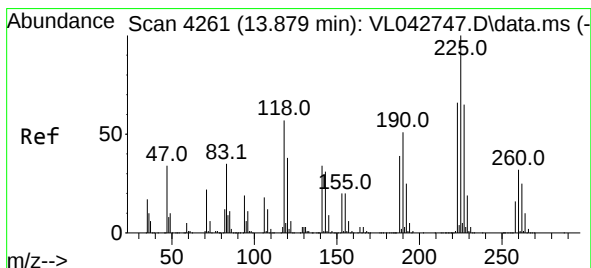
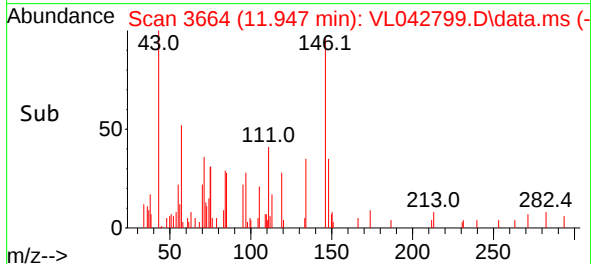
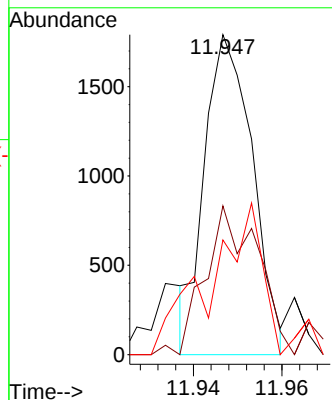
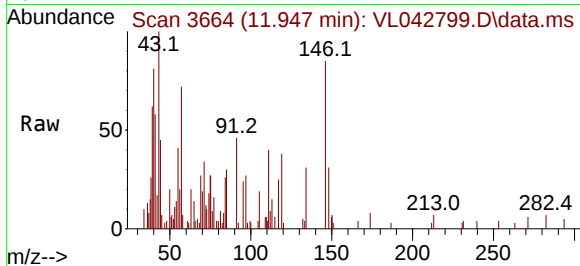




#77
1,2-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

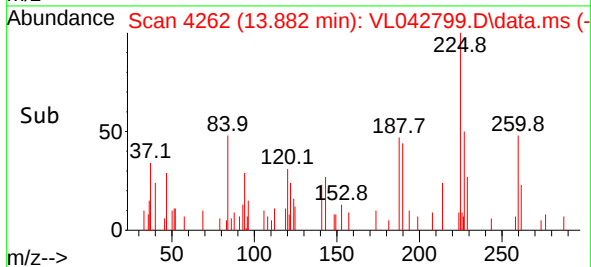
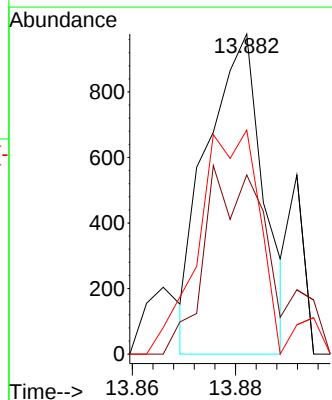
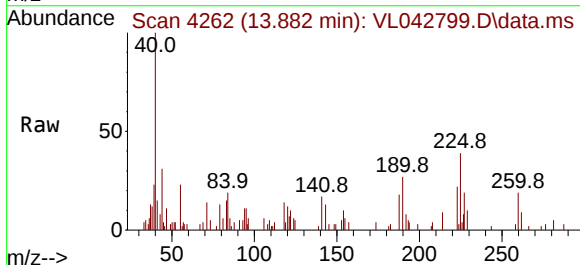
Instrument :
MSVOA_1
ClientSampleId :
WONDER IA-2

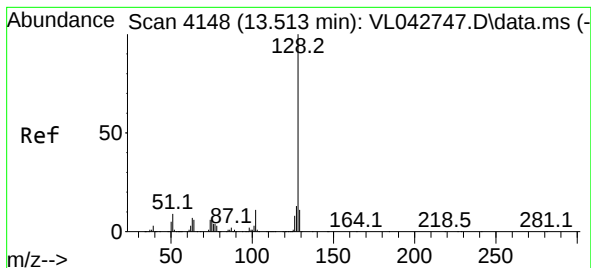
Tgt Ion:146 Resp: 1343
Ion Ratio Lower Upper
146 100
111 68.8 23.7 71.1
148 56.3 32.6 97.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.022 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.003 min
Lab File: VL042799.D
Acq: 04 Aug 2025 11:49

Tgt Ion:225 Resp: 746
Ion Ratio Lower Upper
225 100
223 69.3 50.7 76.1
227 81.0 50.5 75.7#





#79

Naphthalene

Concen: 0.537 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-2

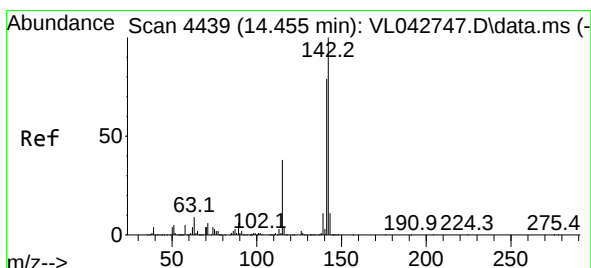
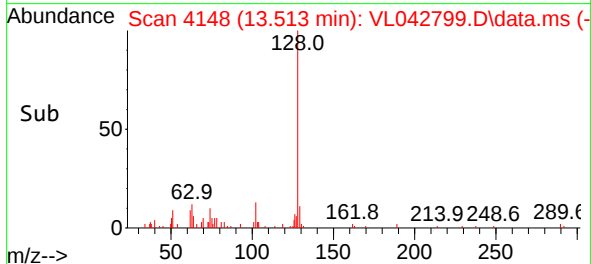
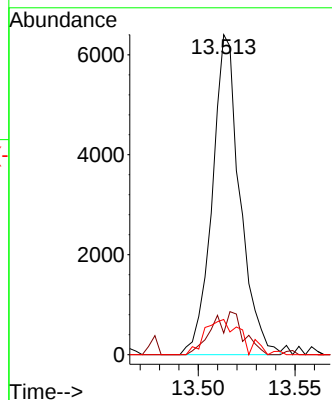
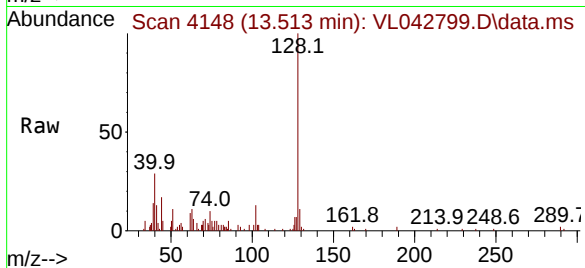
Tgt Ion:128 Resp: 6363

Ion Ratio Lower Upper

128 100

127 6.8 10.5 15.7#

129 11.0 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 1.191 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. 0.003 min

Lab File: VL042799.D

Acq: 04 Aug 2025 11:49

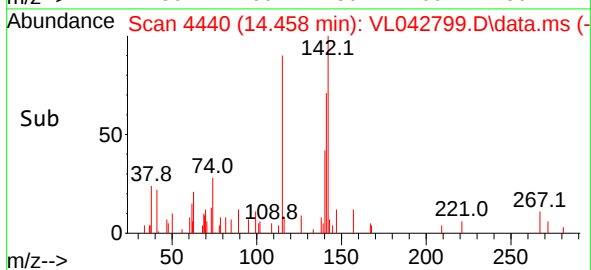
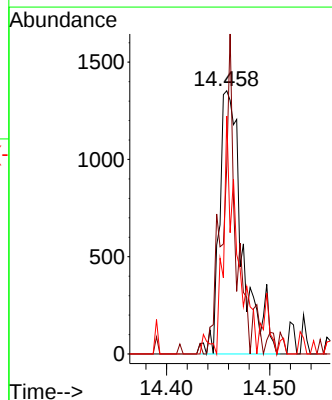
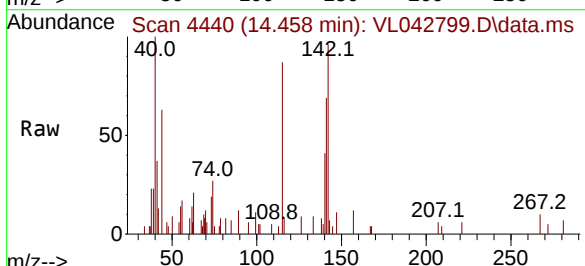
Tgt Ion:142 Resp: 2085

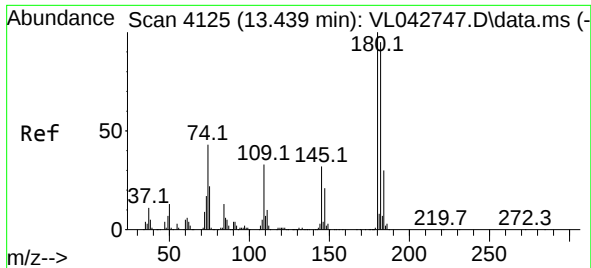
Ion Ratio Lower Upper

142 100

141 73.8 65.8 98.8

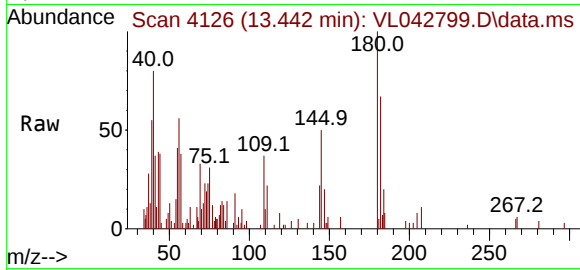
115 63.7 31.2 46.8#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.506 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042799.D
 Acq: 04 Aug 2025 11:49

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-2



Tgt Ion:180 Resp: 2468
 Ion Ratio Lower Upper
 180 100
 182 104.7 76.2 114.2
 184 37.6 24.8 37.2#

