

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	115766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	331154	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	288378	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233305	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9802	0.479	ppbv	95
3) Chlorodifluoromethane	1.466	51	58445	3.001	ppbv #	62
4) Chloromethane	1.534	50	5300	0.655	ppbv #	81
6) Bromomethane	1.664	94	181	0.048	ppbv #	31
7) Chloroethane	1.699	64	134	0.042	ppbv #	75
8) Dichlorotetrafluoroethane	1.554	85	651	0.037	ppbv #	60
9) Propene	1.557	41	74678	8.419	ppbv	93
10) Heptane	4.978	43	213280	8.559	ppbv	95
11) Trichlorofluoromethane	1.877	101	4337	0.223	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	1353	0.085	ppbv	88
13) Ethanol	1.722	45	387433	274.810	ppbv	76
15) Acetone	1.835	43	2882826	152.118	ppbv #	50
16) 1,3-Butadiene	1.622	39	32554	3.591	ppbv #	15
17) tert-Butyl alcohol	2.272	59	39943	1.701	ppbv	98
19) Isopropyl Alcohol	1.887	45	311784	29.616	ppbv #	33
20) Methylene Chloride	2.062	84	21493	2.896	ppbv	95
21) Allyl Chloride	2.042	41	4252	0.325	ppbv #	24
22) trans-1,2-Dichloroethene	2.340	96	269	0.032	ppbv #	17
23) Vinyl Acetate	2.473	43	79985	10.427	ppbv #	56
25) Ethyl Acetate	2.826	43	85250	1.824	ppbv #	85
26) Hexane	2.826	57	104975	5.551	ppbv #	36
27) Carbon Disulfide	2.149	76	1100	0.054	ppbv #	54
28) Methyl tert-Butyl Ether	2.444	73	452	0.036	ppbv #	48
29) Chloroform	2.852	83	1851	0.069	ppbv	89
30) Cyclohexane	3.855	84	32446	2.123	ppbv	89
34) 2-Butanone	2.560	43	31500	1.203	ppbv	99
36) Benzene	3.658	78	67666	1.894	ppbv	98
37) 1,2-Dichloroethane	3.221	62	4202	0.196	ppbv #	88
39) 1,2-Dichloropropane	3.955	63	89351	6.713	ppbv #	23
41) Tetrahydrofuran	3.065	42	3416	0.224	ppbv #	83
43) Methyl Methacrylate	4.897	69	2330	0.145	ppbv #	1
44) 2,2,4-Trimethylpentane	4.641	57	1192538	19.331	ppbv	95
50) 4-Methyl-2-Pentanone	5.768	43	3804	0.087	ppbv #	39
51) 2-Hexanone	7.419	43	81232	2.081	ppbv #	32
52) Tetrachloroethene	8.228	164	1403	0.102	ppbv #	65
53) Toluene	6.933	91	2204506	51.432	ppbv	99
58) Ethyl Benzene	9.354	91	646931	11.323	ppbv	100
59) m/p-Xylene	9.532	91	1789840	38.886	ppbv	100
60) o-Xylene	9.963	91	709518	15.308	ppbv	99
61) Styrene	9.869	104	8504	0.384	ppbv #	91
62) Isopropylbenzene	10.539	105	67289	0.989	ppbv	100
64) n-propylbenzene	10.989	120	58634	3.428	ppbv	95
65) tert-Butylbenzene	11.539	119	126017	2.015	ppbv #	72

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

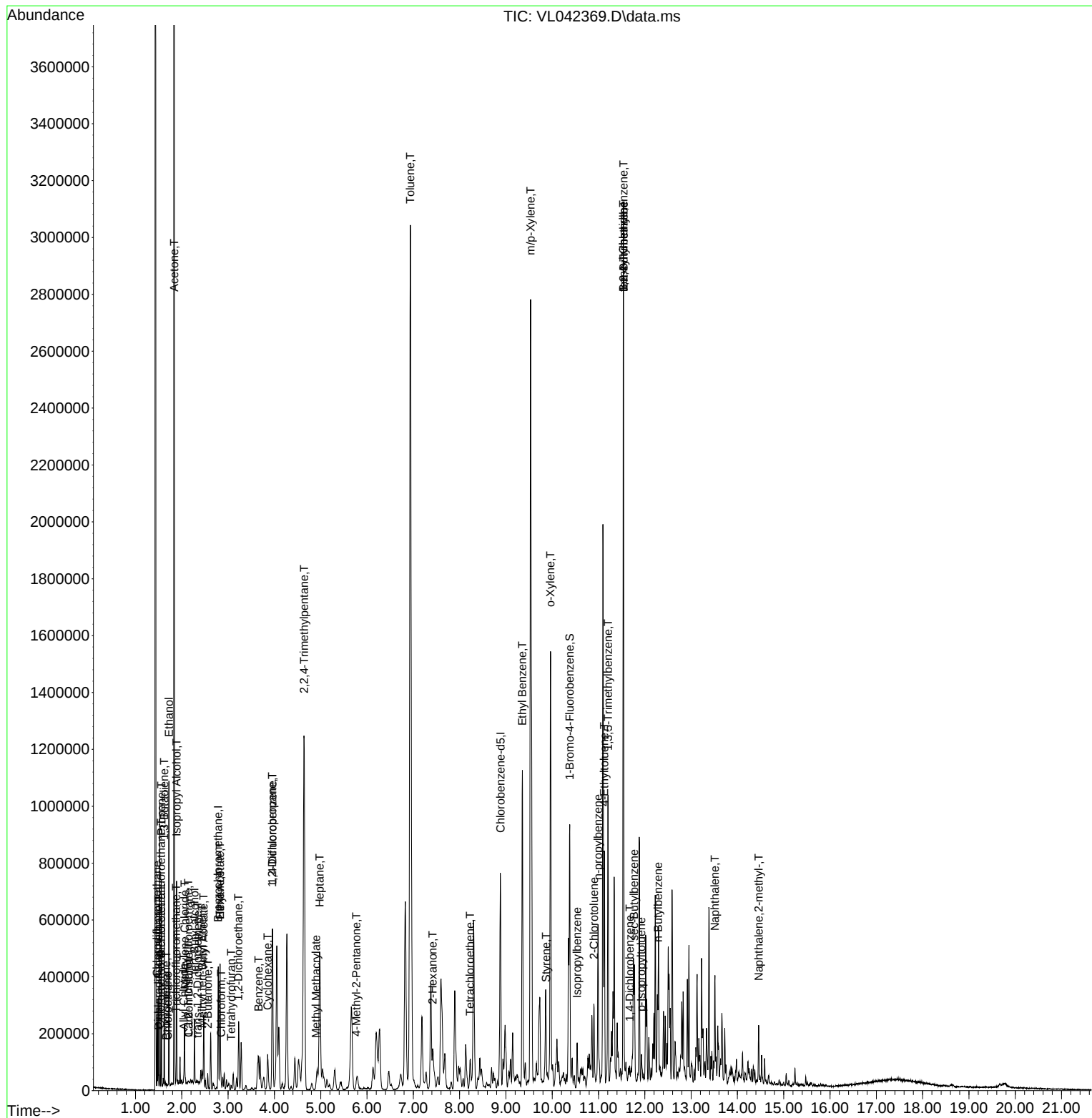
66) Benzyl Chloride	11.536	91	143029	20.811	ppbv #	70
67) sec-Butylbenzene	11.769	105	20996	0.241	ppbv #	77
69) p-Isopropyltoluene	11.924	119	33273	0.440	ppbv	98
70) n-Butylbenzene	12.286	91	102145	1.298	ppbv #	35
71) 2-Chlorotoluene	10.901	91	54169	1.015	ppbv	97
72) 4-Ethyltoluene	11.124	105	313941	5.540	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	354735	7.091	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	1151476	19.707	ppbv #	65
76) 1,4-Dichlorobenzene	11.671	146	10434	0.342	ppbv #	50
79) Naphthalene	13.513	128	166277	2.380	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	50980	1.280	ppbv	96

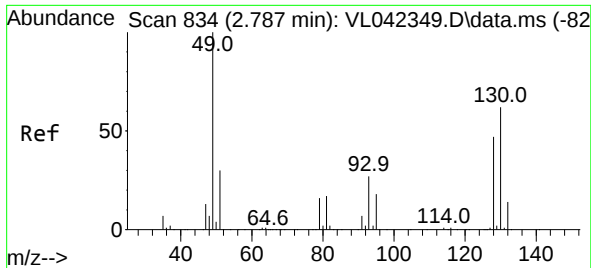
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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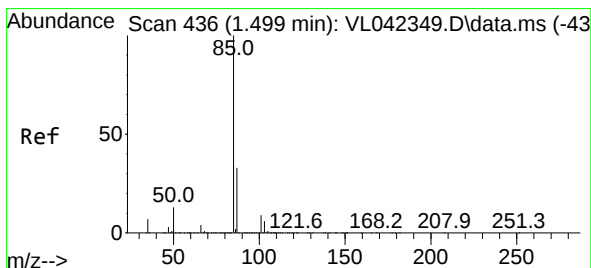
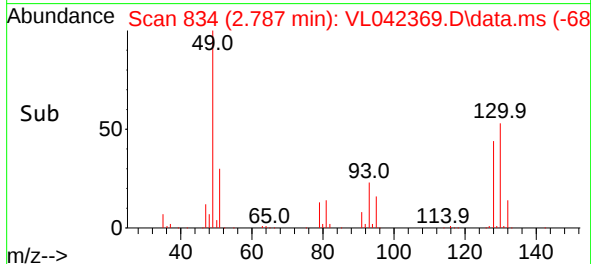
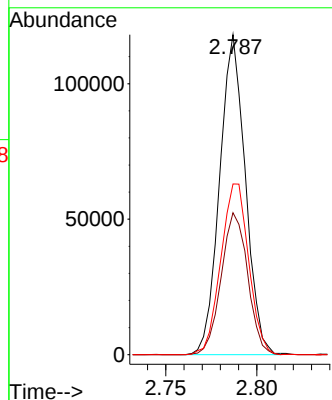
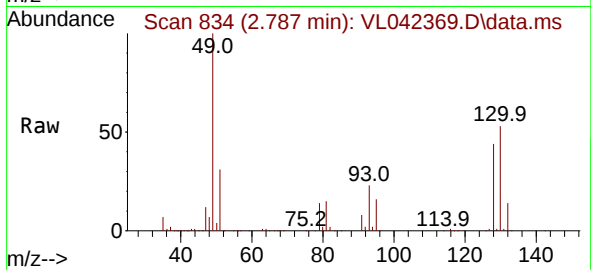




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

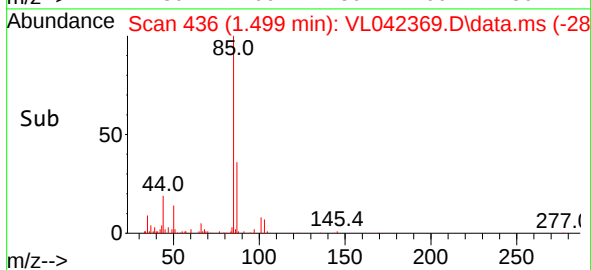
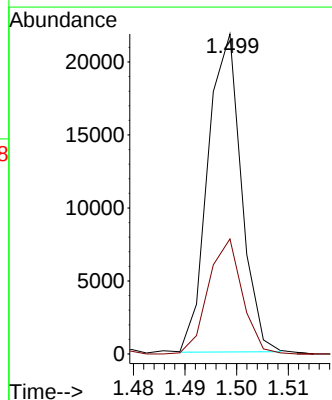
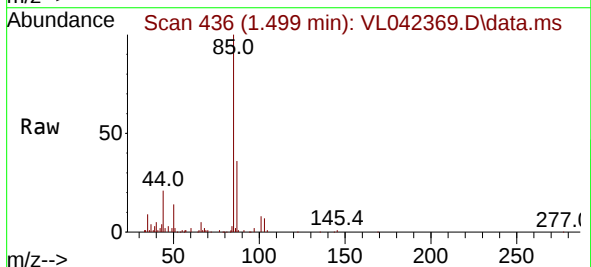
Instrument :
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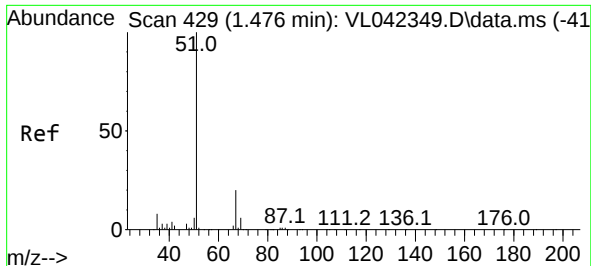
Tgt Ion: 49 Resp: 115766
 Ion Ratio Lower Upper
 49 100
 128 45.8 22.8 68.4
 130 58.0 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.479 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

Tgt Ion: 85 Resp: 9802
 Ion Ratio Lower Upper
 85 100
 87 35.9 26.6 39.8

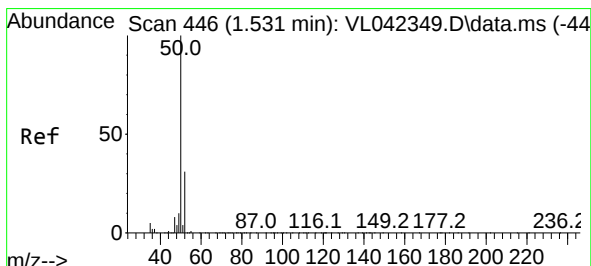
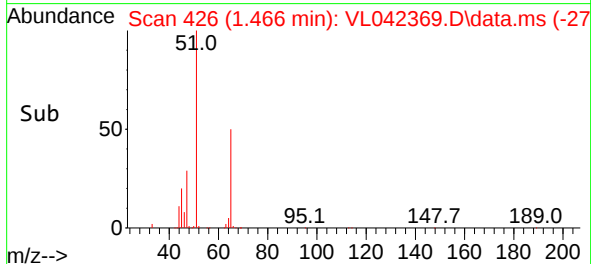
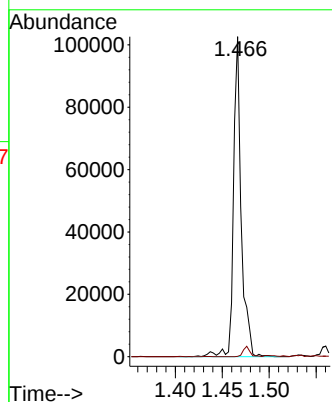
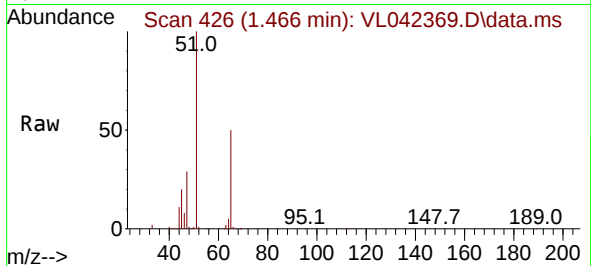




#3
Chlorodifluoromethane
Concen: 3.001 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

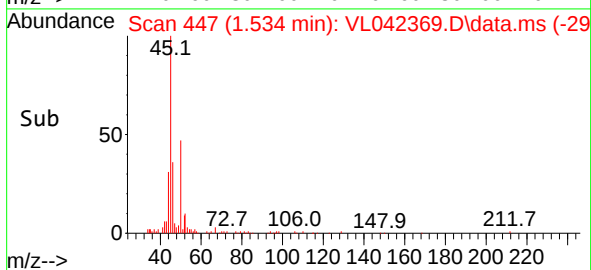
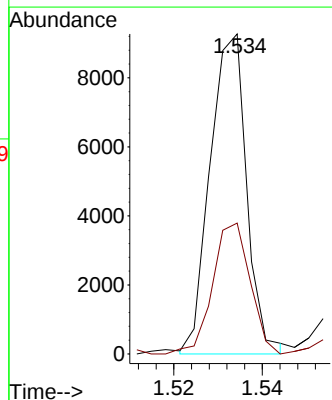
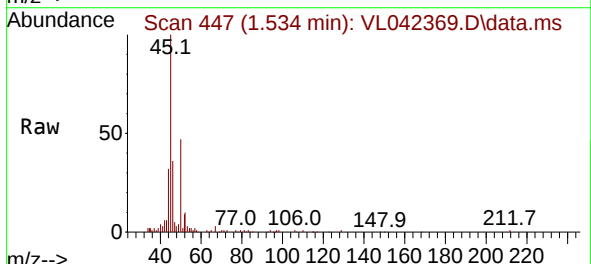
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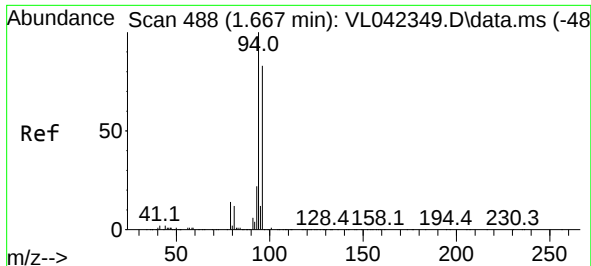
Tgt Ion: 51 Resp: 58445
Ion Ratio Lower Upper
51 100
67 2.9 16.2 24.4#



#4
Chloromethane
Concen: 0.655 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 50 Resp: 5300
Ion Ratio Lower Upper
50 100
52 41.3 24.7 37.1#

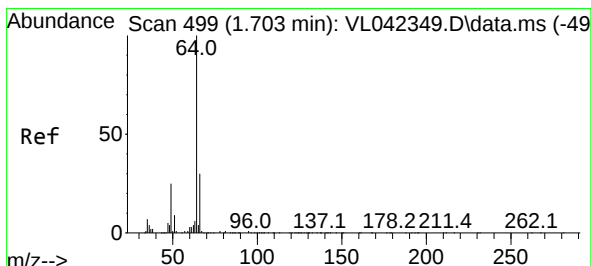
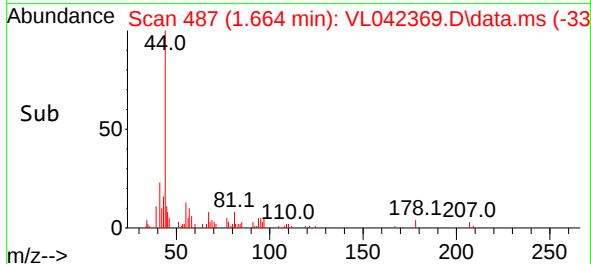
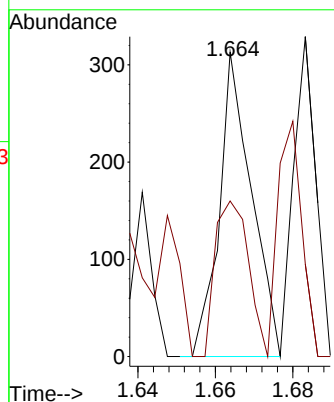
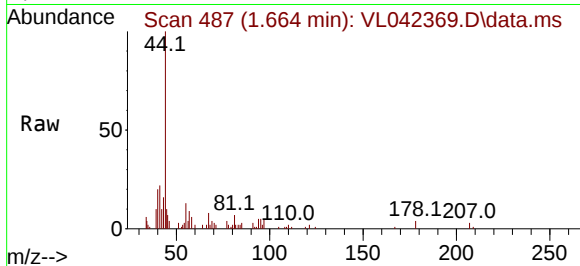




#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

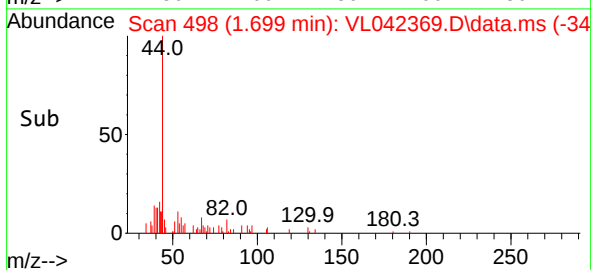
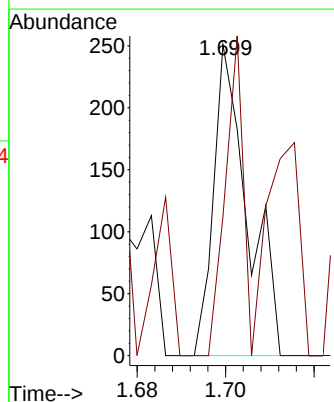
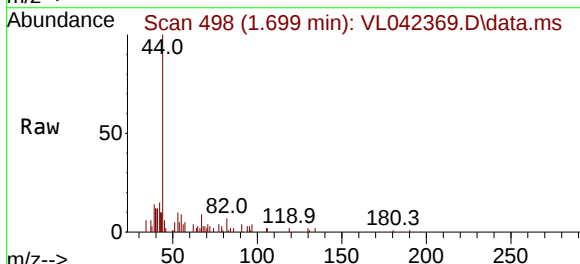
Instrument :
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ClientSampleId :
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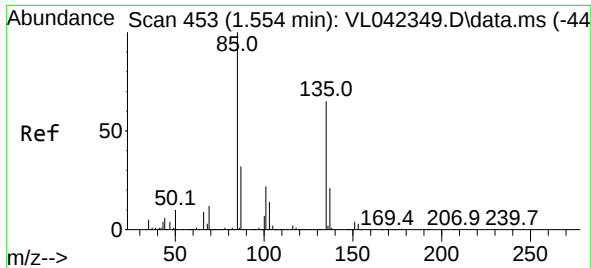
Tgt Ion: 94 Resp: 181
Ion Ratio Lower Upper
94 100
96 20.4 66.2 99.2#



#7
Chloroethane
Concen: 0.042 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 64 Resp: 134
Ion Ratio Lower Upper
64 100
66 44.6 24.6 37.0#

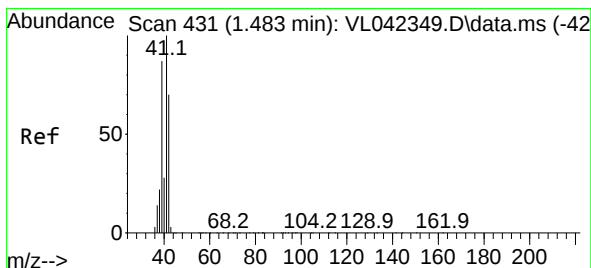
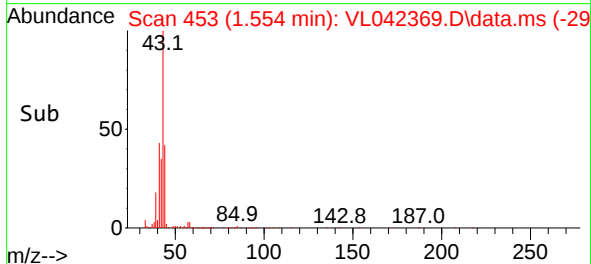
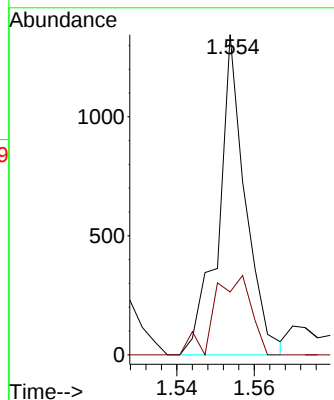
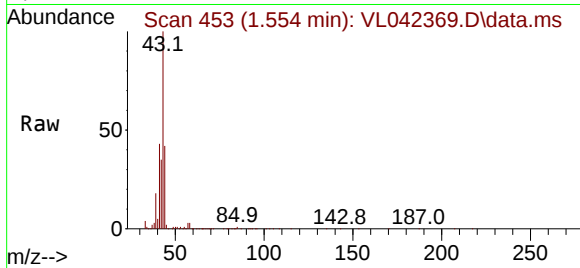




#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 1.554 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

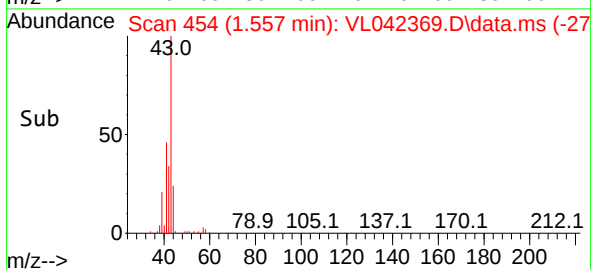
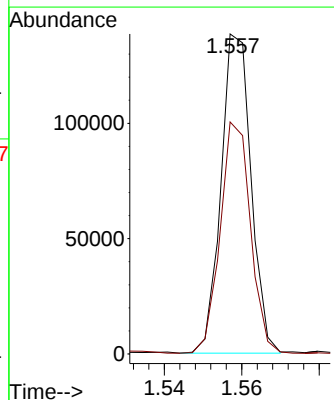
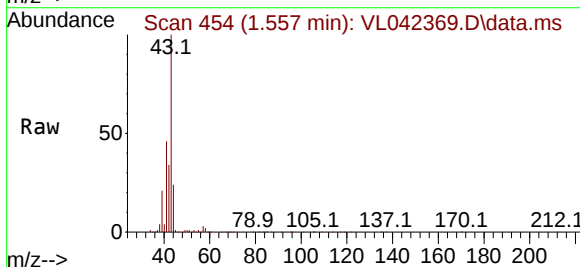
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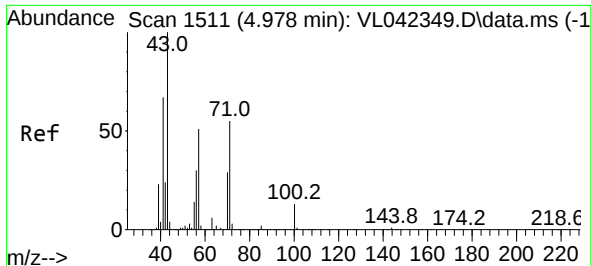
Tgt Ion: 85 Resp: 651
Ion Ratio Lower Upper
85 100
135 33.9 52.2 78.2#



#9
Propene
Concen: 8.419 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 41 Resp: 74678
Ion Ratio Lower Upper
41 100
42 75.7 56.2 84.4

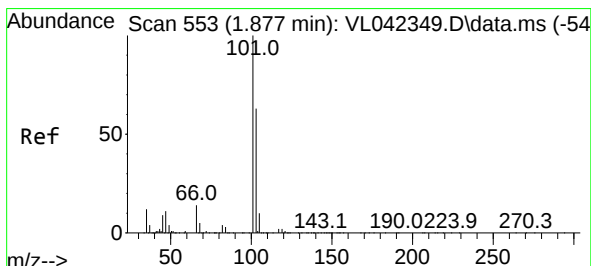
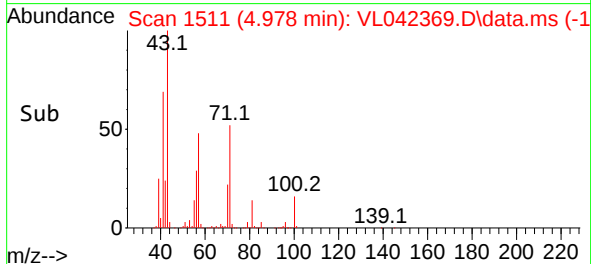
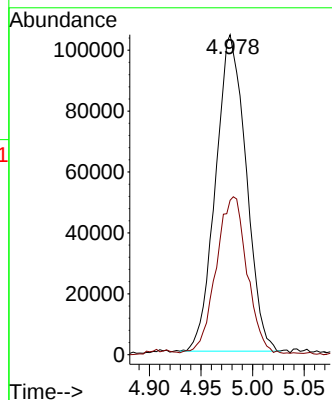
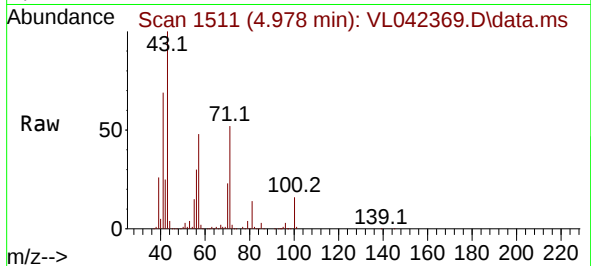




#10
Heptane
Concen: 8.559 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

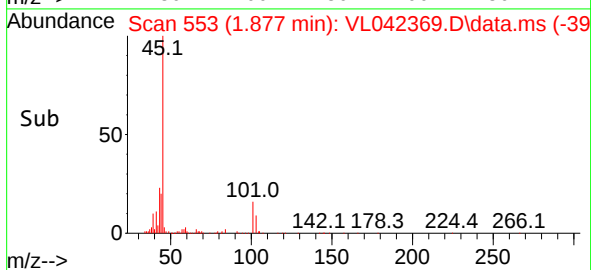
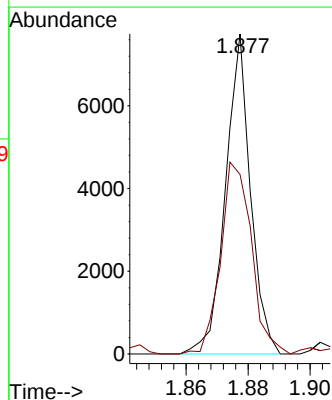
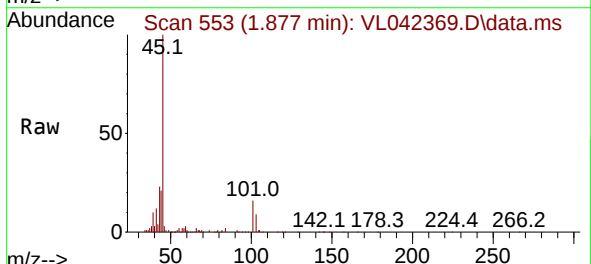
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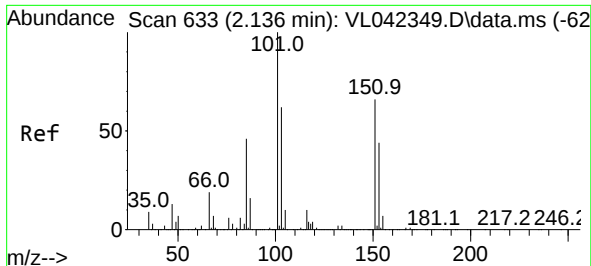
Tgt Ion: 43 Resp: 213280
Ion Ratio Lower Upper
43 100
57 53.1 39.9 59.9



#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:101 Resp: 4337
Ion Ratio Lower Upper
101 100
103 56.1 50.1 75.1

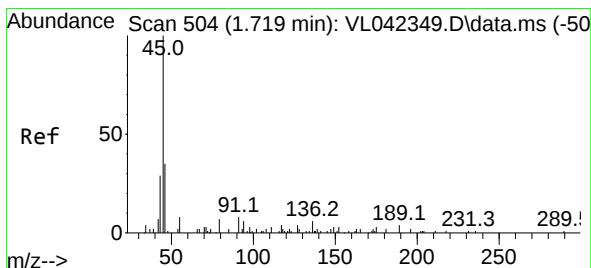
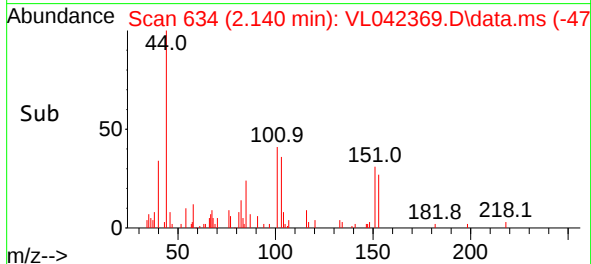
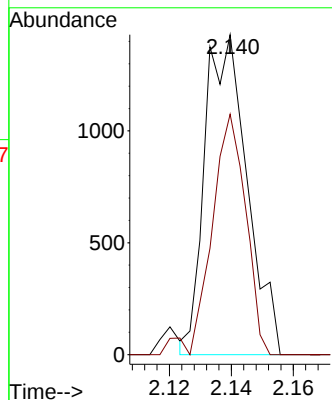
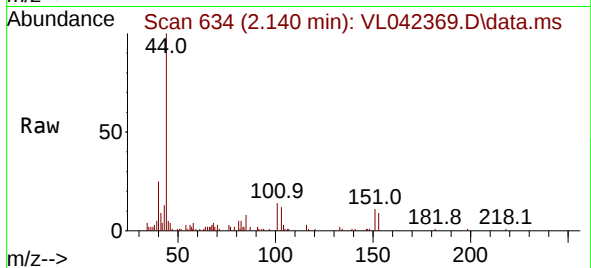




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.085 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

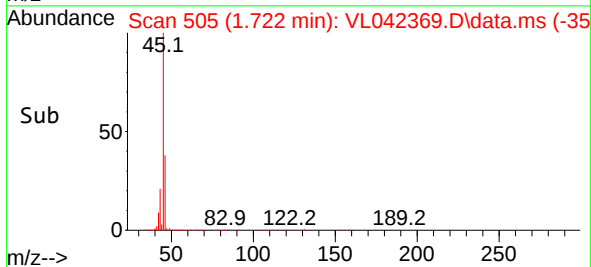
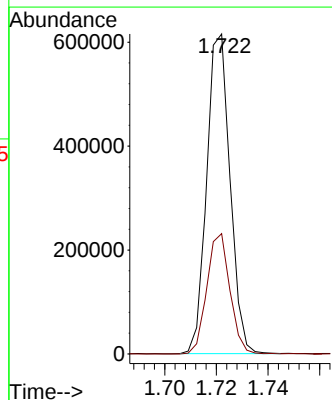
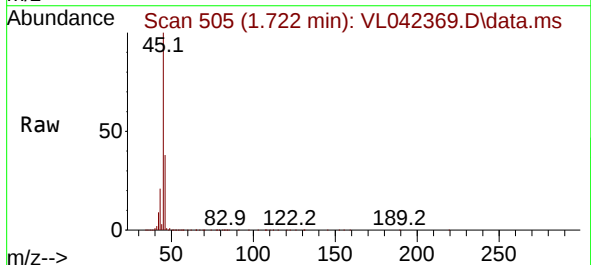
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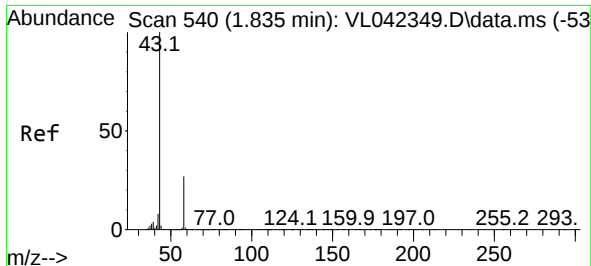
Tgt Ion:101 Resp: 1353
Ion Ratio Lower Upper
101 100
151 61.0 57.0 85.6



#13
Ethanol
Concen: 274.810 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 45 Resp: 387433
Ion Ratio Lower Upper
45 100
46 37.4 21.9 87.7

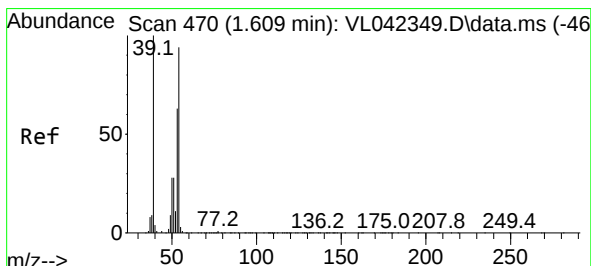
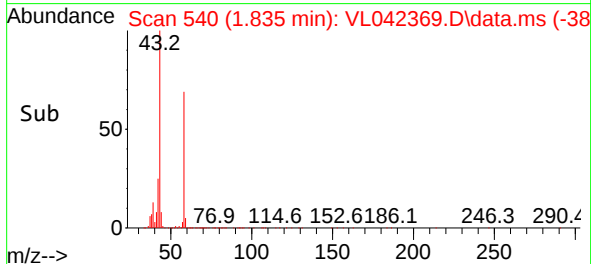
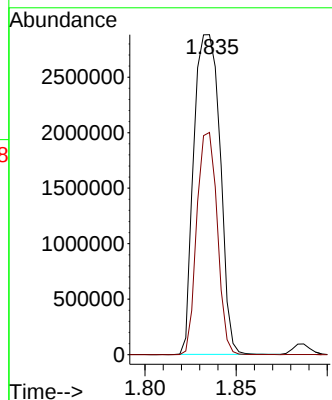
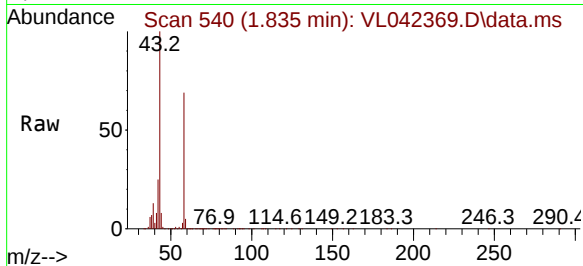




#15
Acetone
Concen: 152.118 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

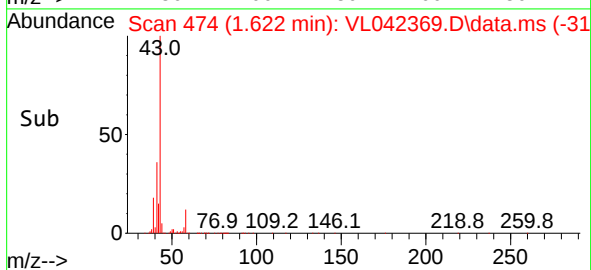
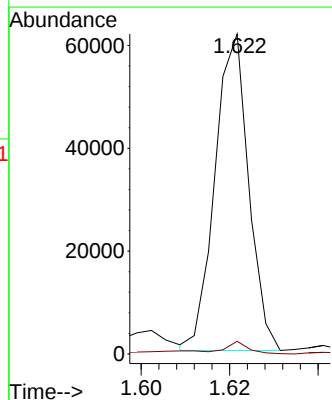
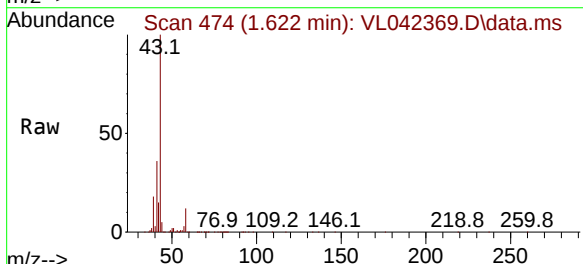
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

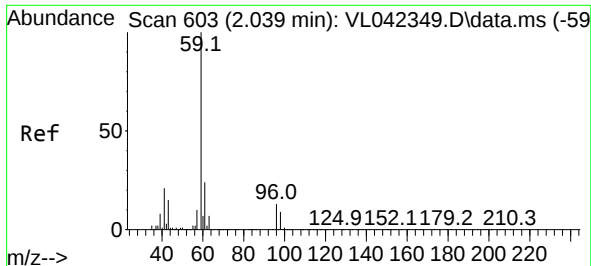
Tgt Ion: 43 Resp: 2882826
Ion Ratio Lower Upper
43 100
58 54.3 22.4 33.6#



#16
1,3-Butadiene
Concen: 3.591 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 39 Resp: 32554
Ion Ratio Lower Upper
39 100
54 5.1 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 1.701 ppbv

RT: 2.272 min Scan# 61

Delta R.T. 0.233 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

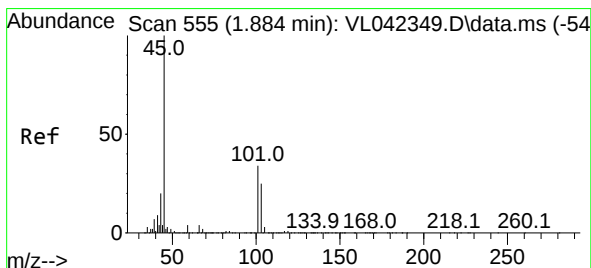
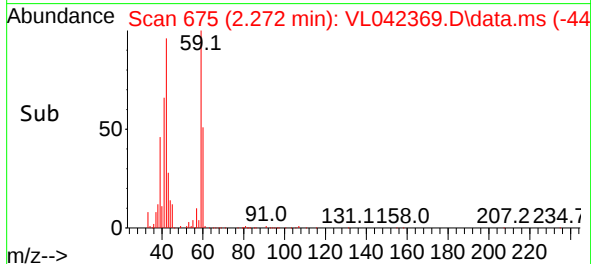
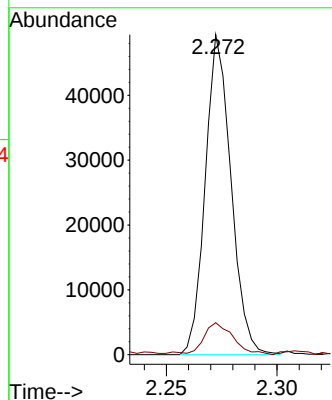
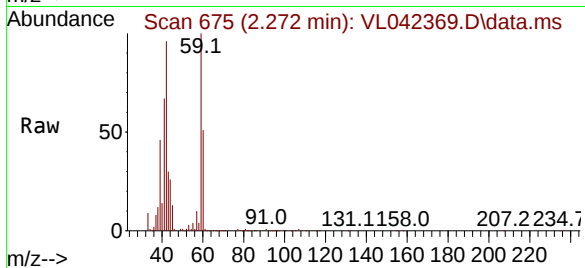
IA-B2-5-03312025

Tgt Ion: 59 Resp: 39943

Ion Ratio Lower Upper

59 100

57 11.6 8.7 13.1



#19

Isopropyl Alcohol

Concen: 29.616 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042369.D

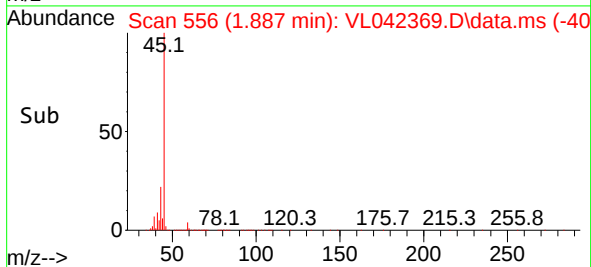
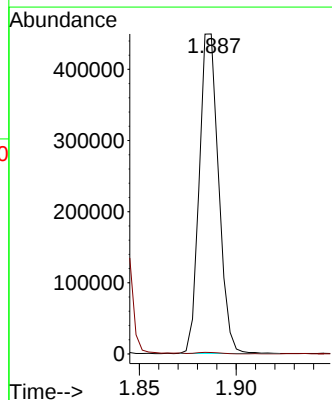
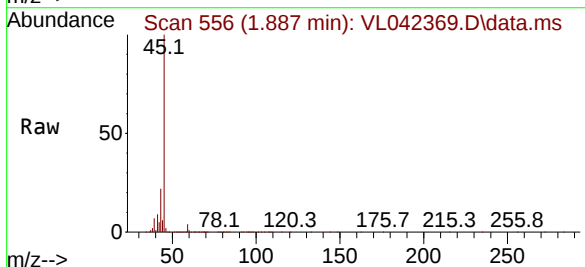
Acq: 17 Apr 2025 21:45

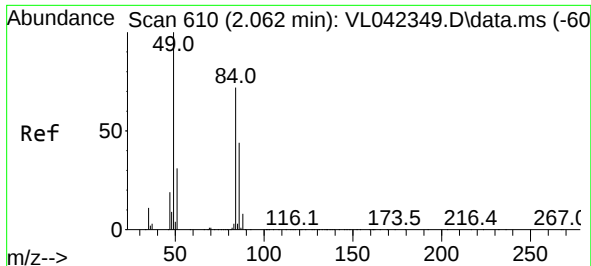
Tgt Ion: 45 Resp: 311784

Ion Ratio Lower Upper

45 100

58 0.0 34.5 51.7#

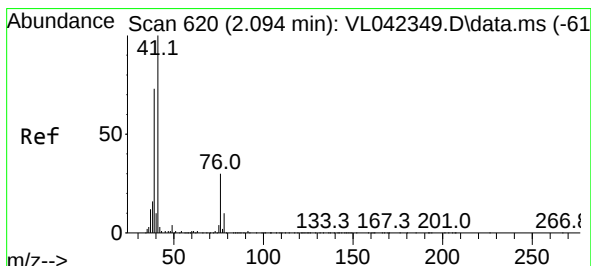
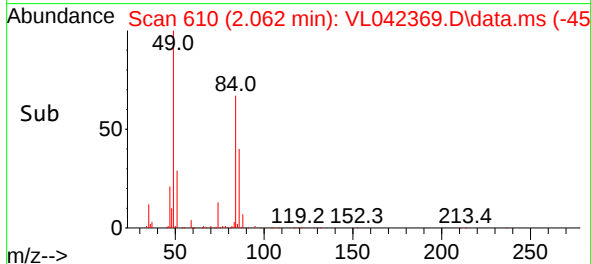
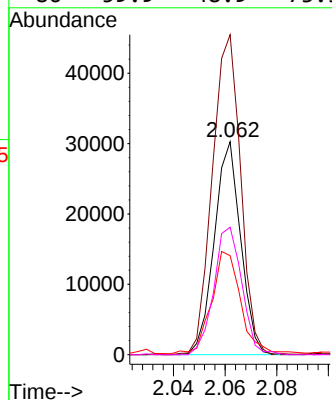
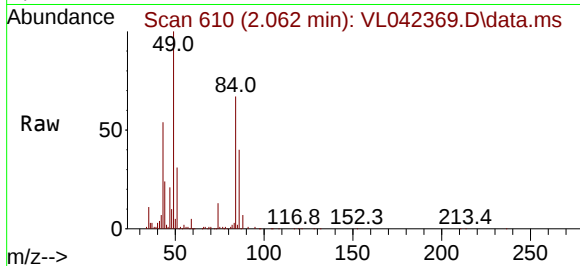




#20
Methylene Chloride
Concen: 2.896 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

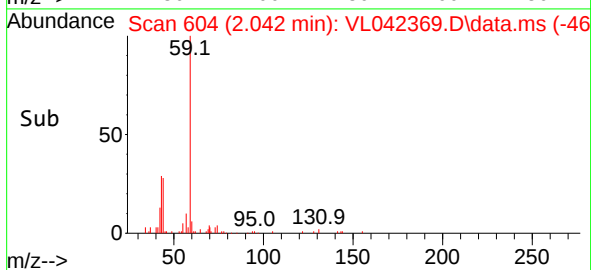
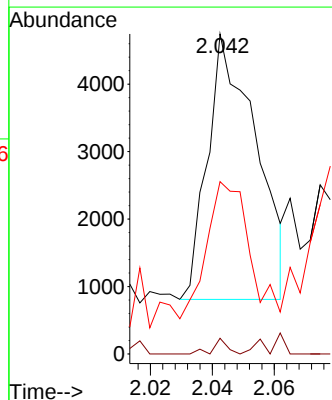
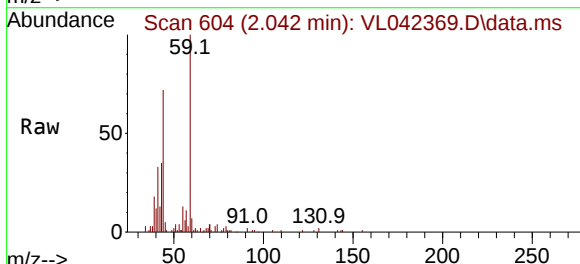
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

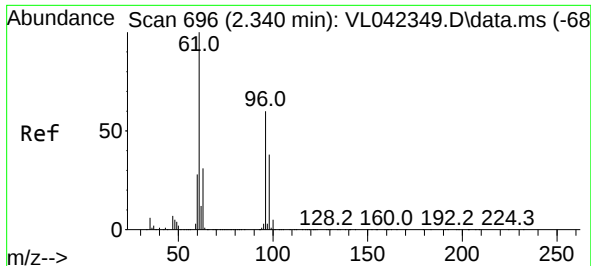
Tgt Ion: 84	Resp: 21493		
Ion	Ratio	Lower	Upper
84	100		
49	149.6	111.6	167.4
51	45.0	35.1	52.7
86	59.9	48.9	73.3



#21
Allyl Chloride
Concen: 0.325 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 41	Resp: 4252
Ion Ratio	Lower Upper
41 100	
76 6.1	24.8 37.2#
39 0.0	60.6 90.8#

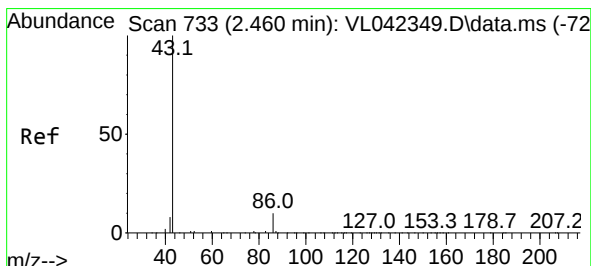
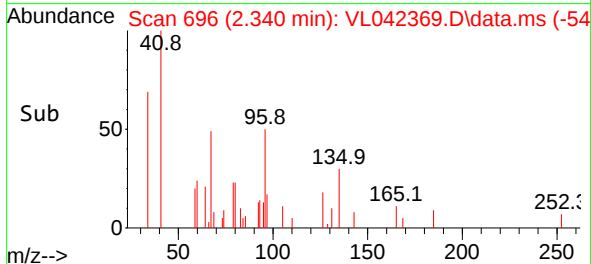
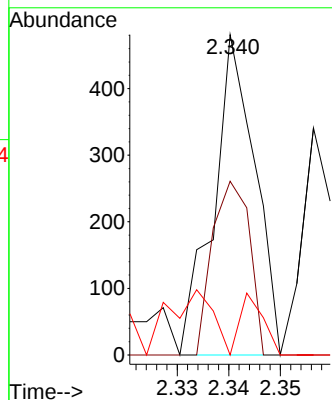
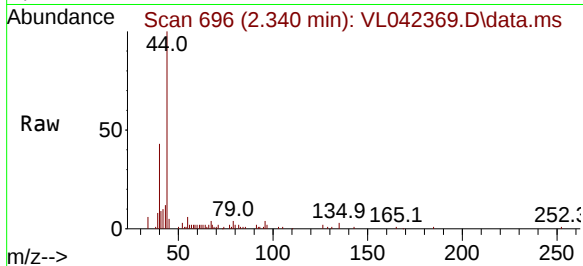




#22
trans-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

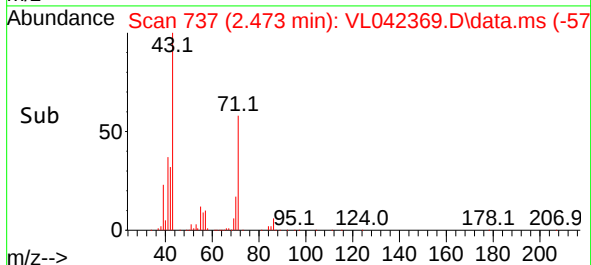
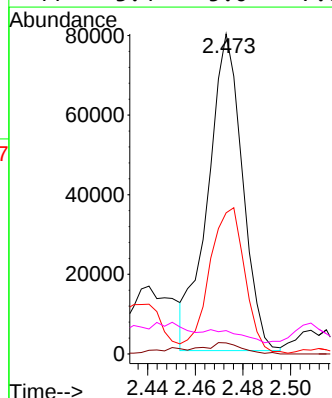
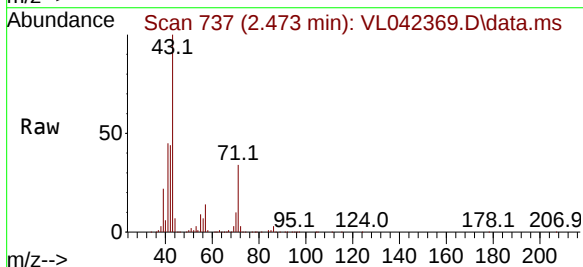
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

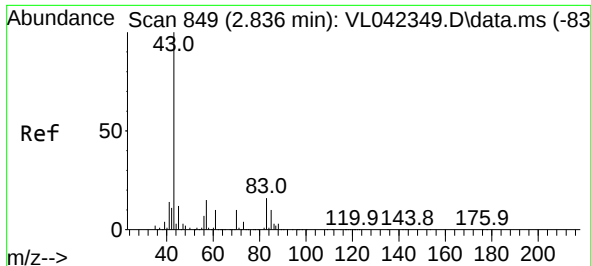
Tgt Ion: 96 Resp: 269
Ion Ratio Lower Upper
96 100
61 54.3 133.7 200.5#
98 0.0 50.3 75.5#



#23
Vinyl Acetate
Concen: 10.427 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 79985
Ion Ratio Lower Upper
43 100
86 3.5 6.5 9.7#
42 44.2 7.8 11.8#
44 3.4 5.0 7.6#

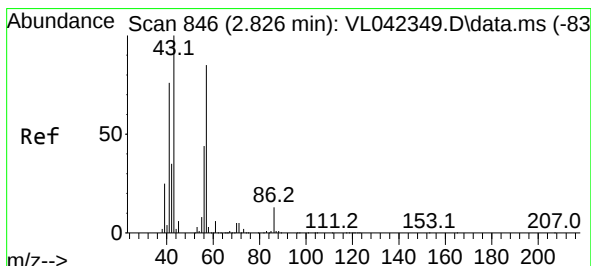
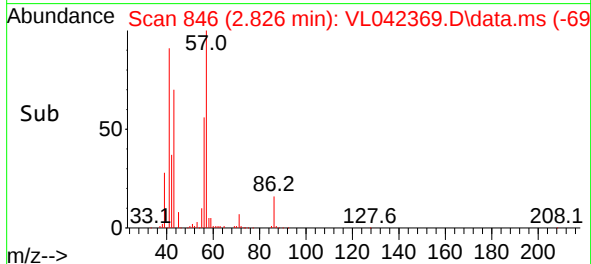
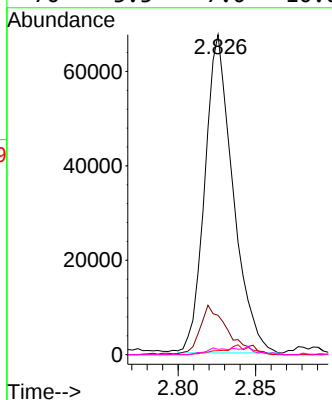
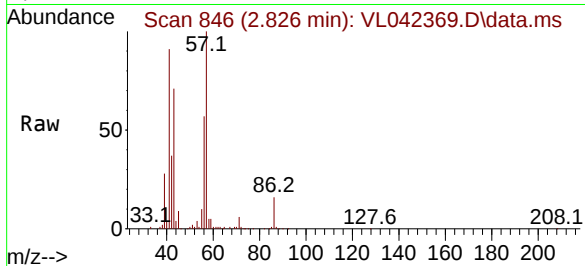




#25
Ethyl Acetate
Concen: 1.824 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

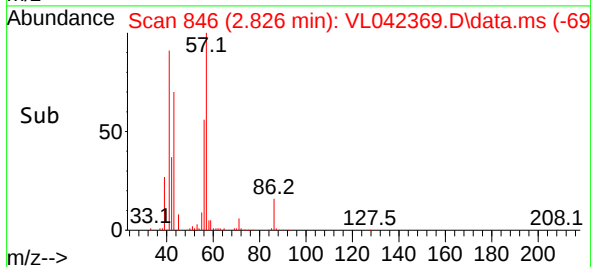
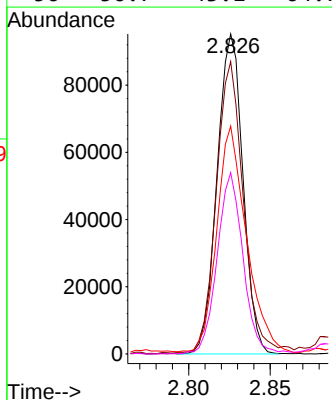
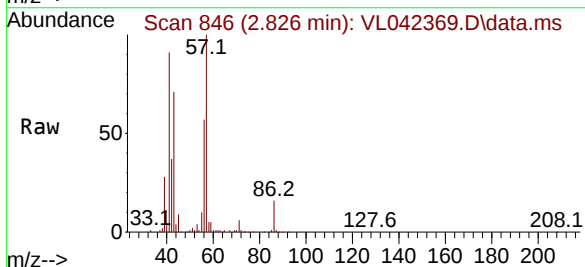
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

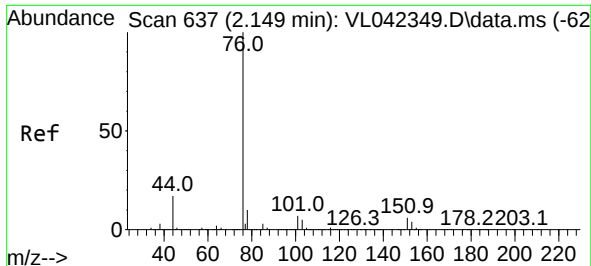
Tgt Ion:	43	Resp:	85250
Ion	Ratio	Lower	Upper
43	100		
45	16.0	8.3	12.5#
61	3.2	7.3	10.9#
70	3.3	7.0	10.6#



#26
Hexane
Concen: 5.551 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:	57	Resp:	104975
Ion	Ratio	Lower	Upper
57	100		
41	96.7	77.9	116.9
43	80.2	208.4	312.6#
56	56.7	43.1	64.7





#27

Carbon Disulfide

Concen: 0.054 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

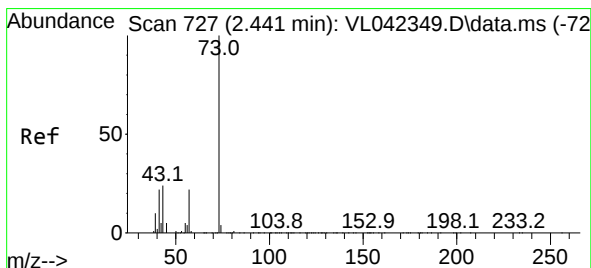
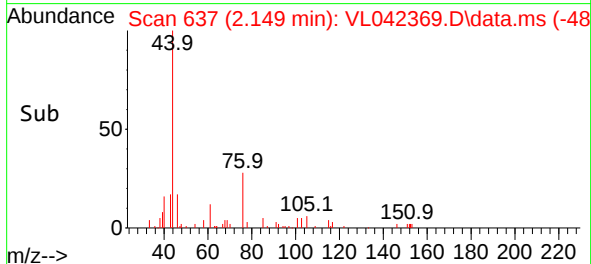
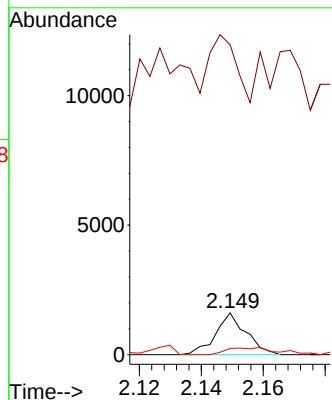
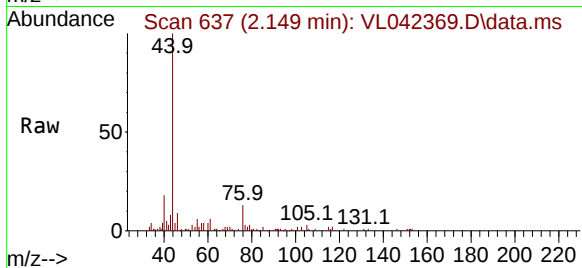
Tgt Ion: 76 Resp: 1100

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

78 31.5 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 0.036 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.003 min

Lab File: VL042369.D

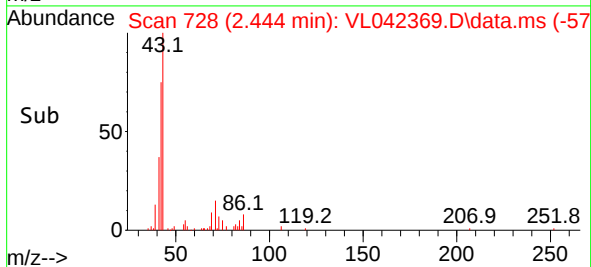
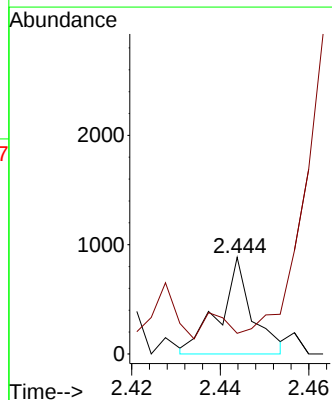
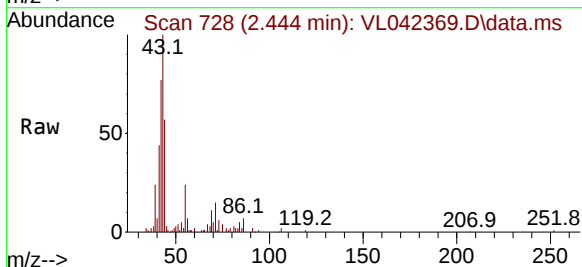
Acq: 17 Apr 2025 21:45

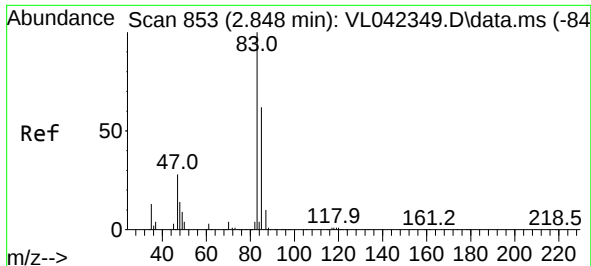
Tgt Ion: 73 Resp: 452

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#





#29

Chloroform

Concen: 0.069 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.003 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

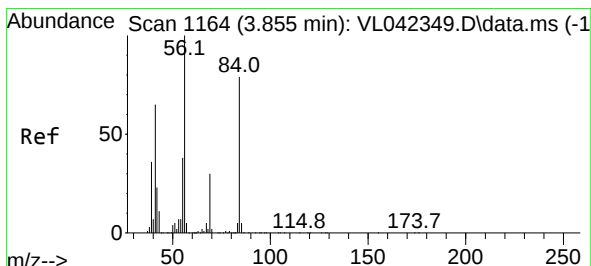
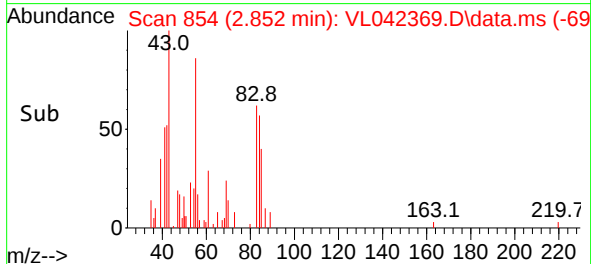
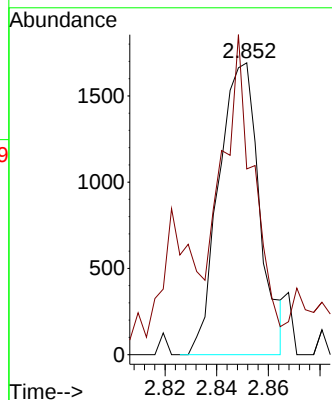
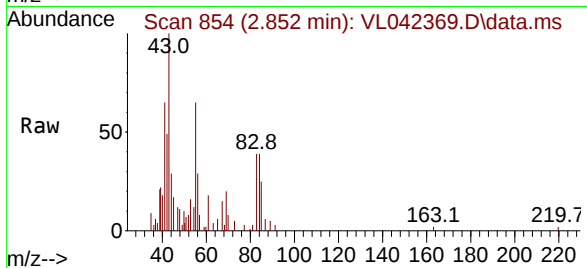
IA-B2-5-03312025

Tgt Ion: 83 Resp: 1851

Ion Ratio Lower Upper

83 100

85 54.1 50.0 75.0



#30

Cyclohexane

Concen: 2.123 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

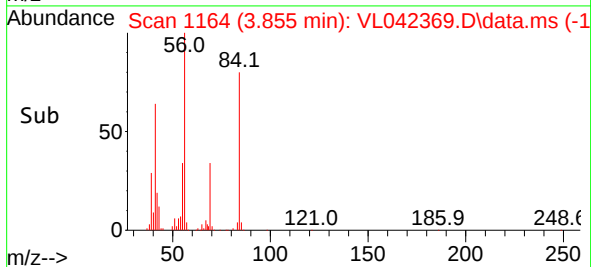
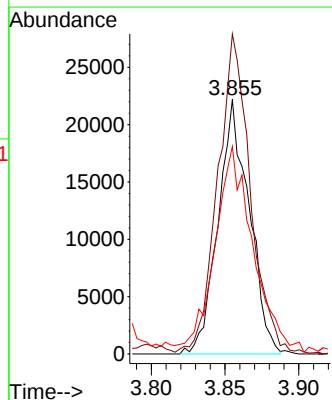
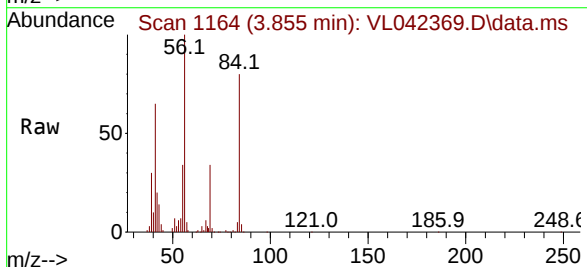
Tgt Ion: 84 Resp: 32446

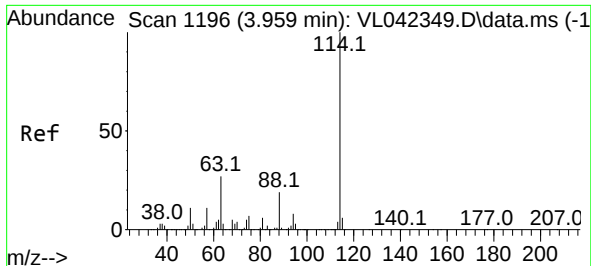
Ion Ratio Lower Upper

84 100

56 132.7 101.0 151.4

41 100.9 67.4 101.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

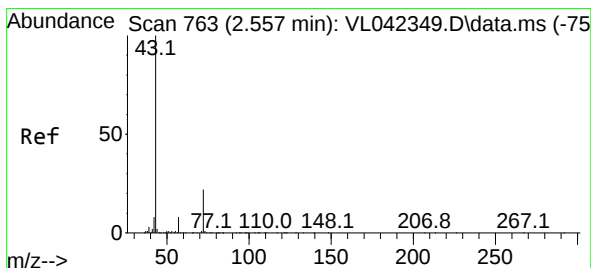
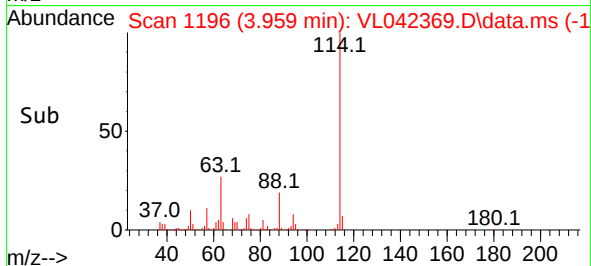
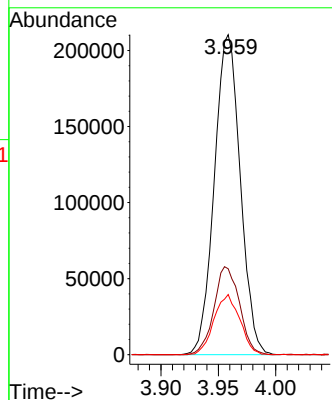
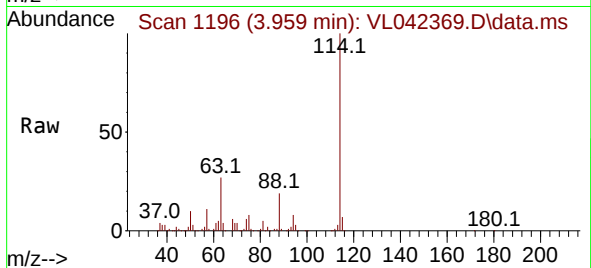
Tgt Ion:114 Resp: 331154

Ion Ratio Lower Upper

114 100

63 27.0 21.8 32.6

88 18.8 15.5 23.3



#34

2-Butanone

Concen: 1.203 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042369.D

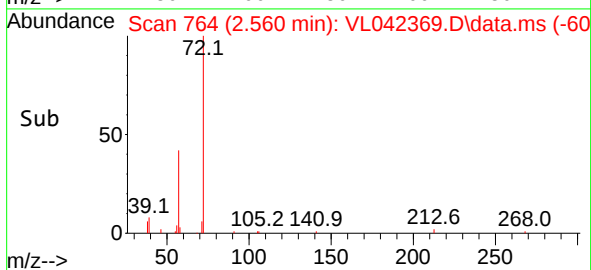
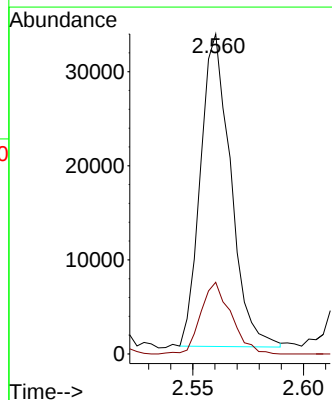
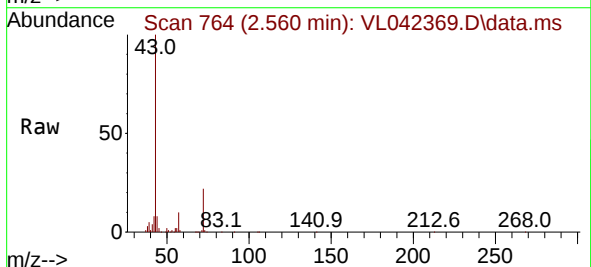
Acq: 17 Apr 2025 21:45

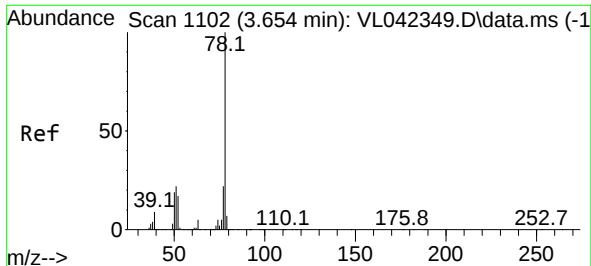
Tgt Ion: 43 Resp: 31500

Ion Ratio Lower Upper

43 100

72 23.1 18.2 27.2

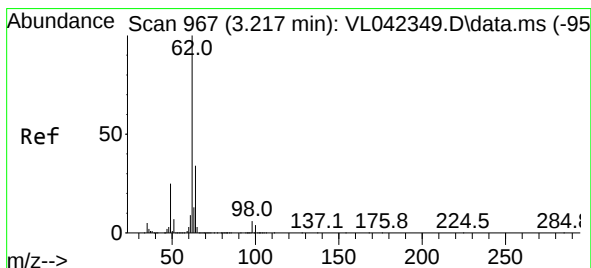
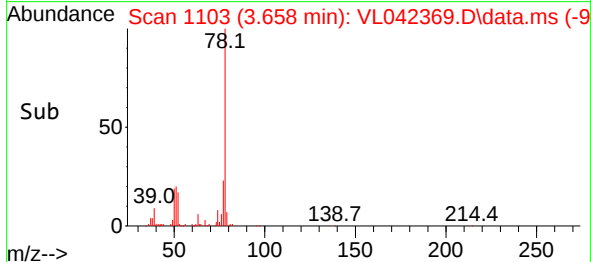
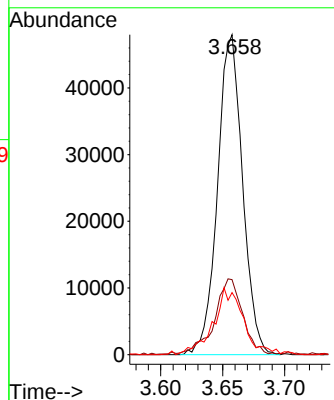
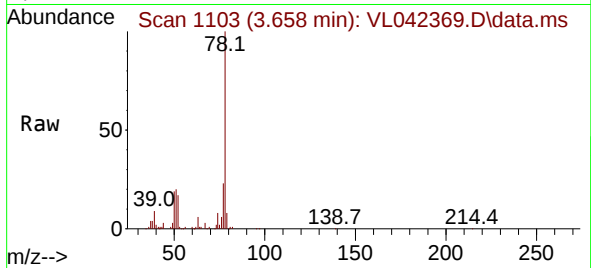




#36
Benzene
Concen: 1.894 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

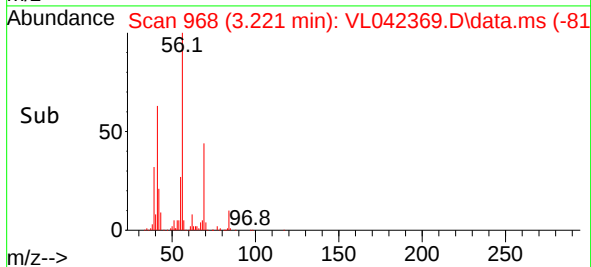
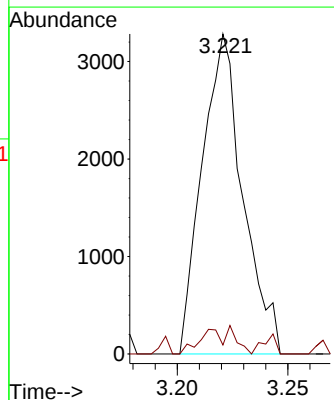
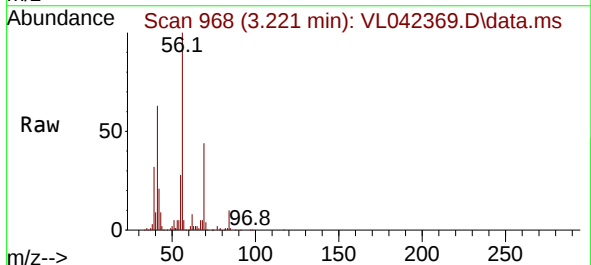
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

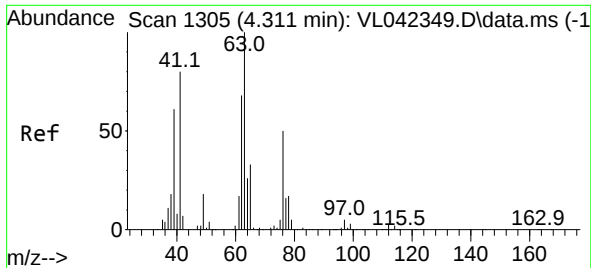
Tgt Ion: 78 Resp: 67666
Ion Ratio Lower Upper
78 100
77 23.1 17.4 26.0
50 19.1 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.196 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 62 Resp: 4202
Ion Ratio Lower Upper
62 100
98 10.6 5.1 7.7#





#39

1,2-Dichloropropane

Concen: 6.713 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

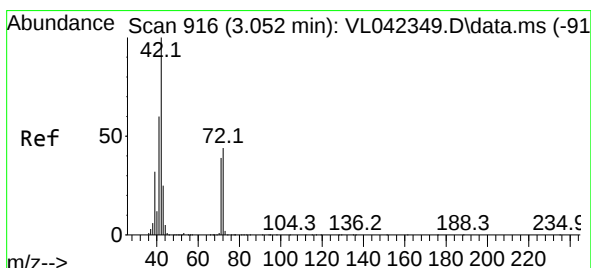
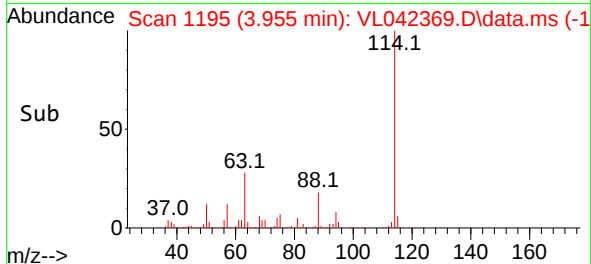
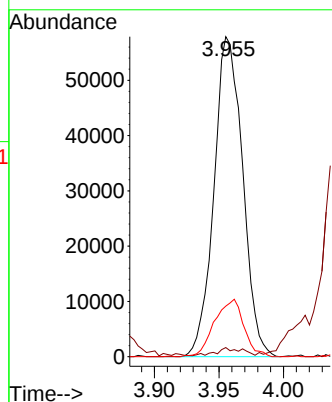
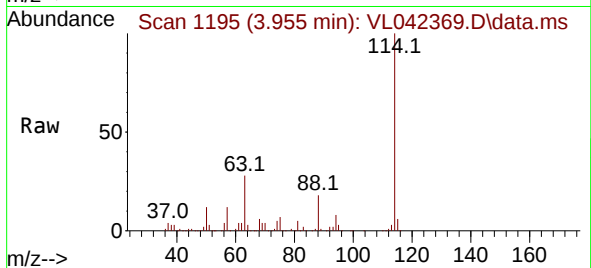
Tgt Ion: 63 Resp: 89351

Ion Ratio Lower Upper

63 100

41 2.1 64.2 96.2#

62 15.8 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.224 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.013 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

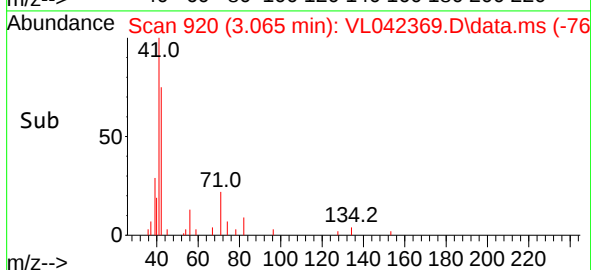
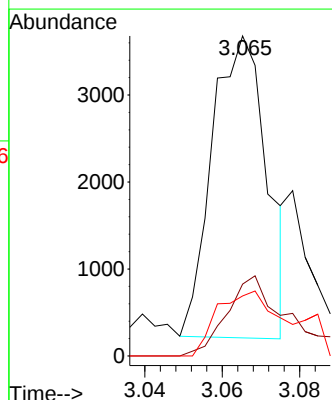
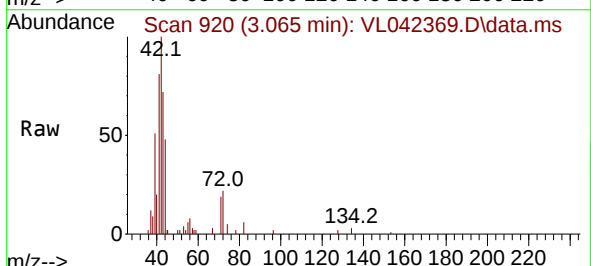
Tgt Ion: 42 Resp: 3416

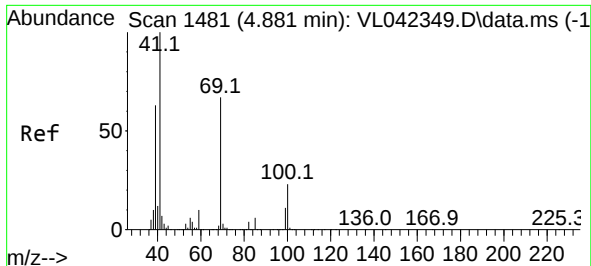
Ion Ratio Lower Upper

42 100

72 29.9 32.3 48.5#

71 28.8 31.4 47.2#

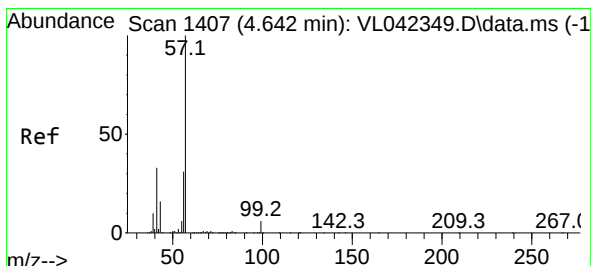
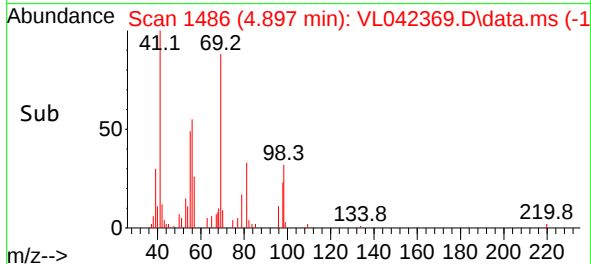
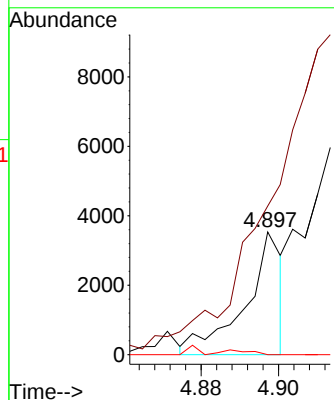
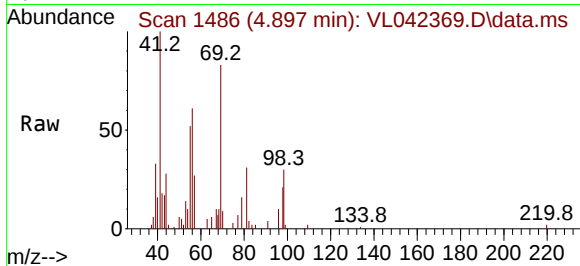




#43
Methyl Methacrylate
Concen: 0.145 ppbv
RT: 4.897 min Scan# 1486
Delta R.T. 0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

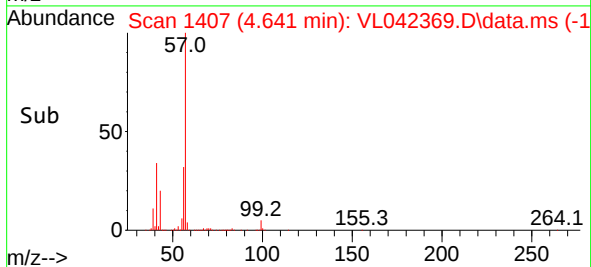
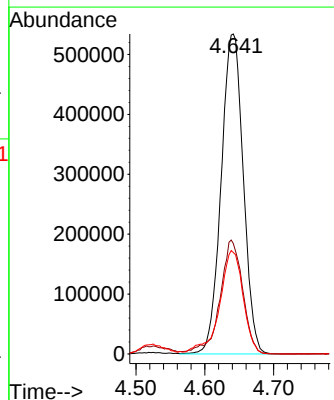
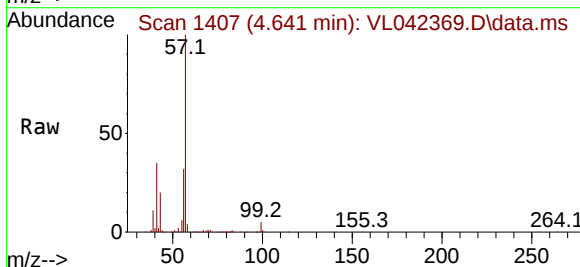
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

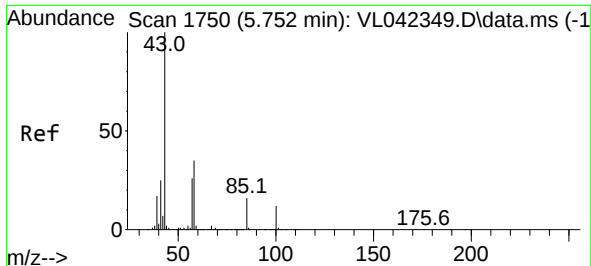
Tgt Ion: 69 Resp: 2330
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 19.331 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 57 Resp: 1192538
Ion Ratio Lower Upper
57 100
41 36.7 27.2 40.8
56 34.7 25.7 38.5

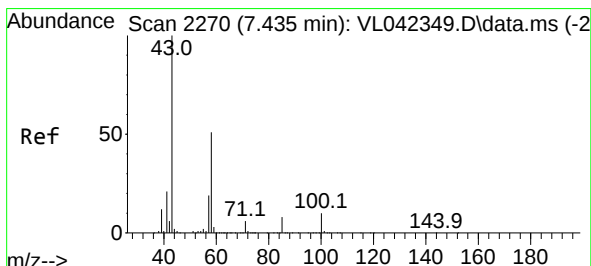
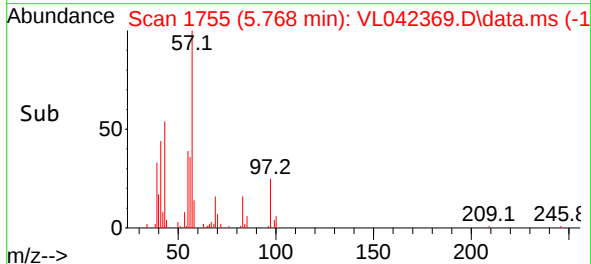
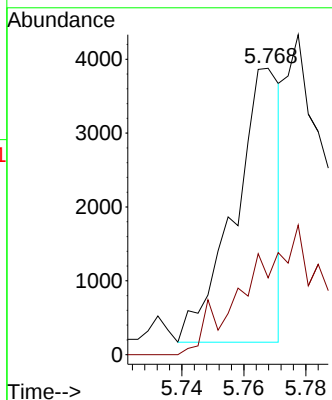
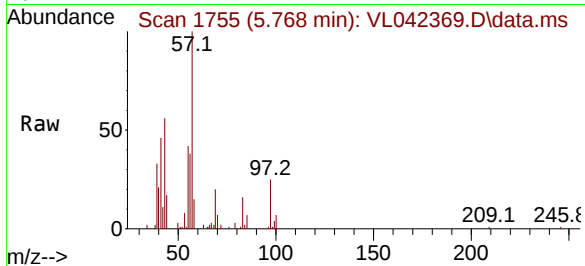




#50
4-Methyl-2-Pentanone
Concen: 0.087 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

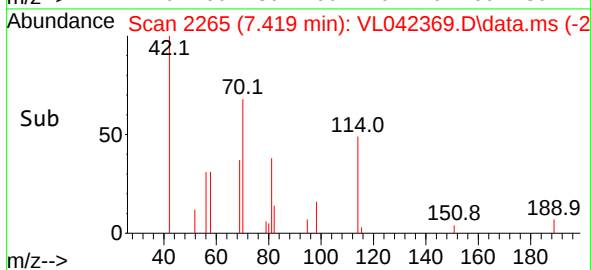
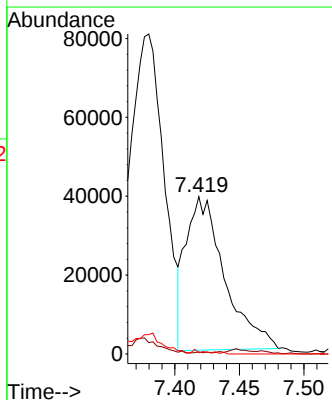
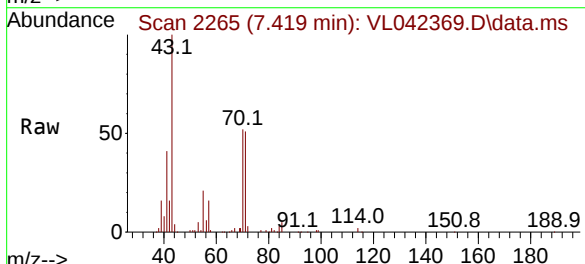
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

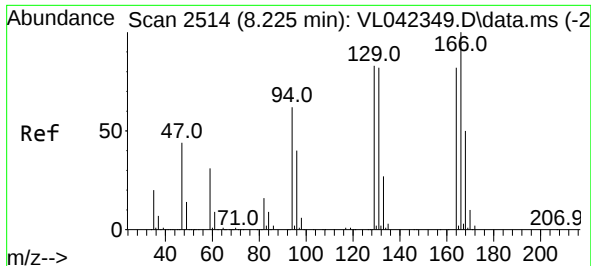
Tgt Ion: 43 Resp: 3804
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#51
2-Hexanone
Concen: 2.081 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 81232
Ion Ratio Lower Upper
43 100
58 2.9 40.2 60.4#
98 0.0 0.1 0.1#

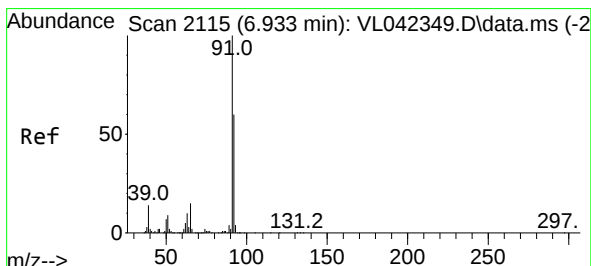
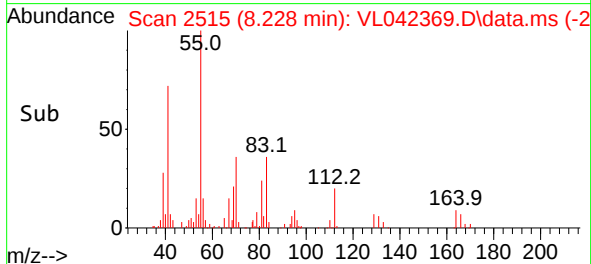
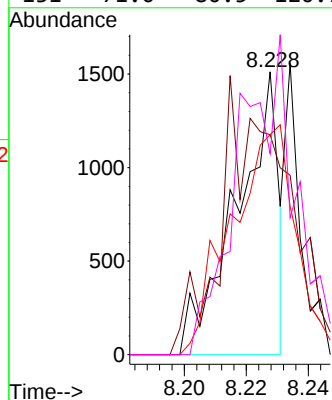
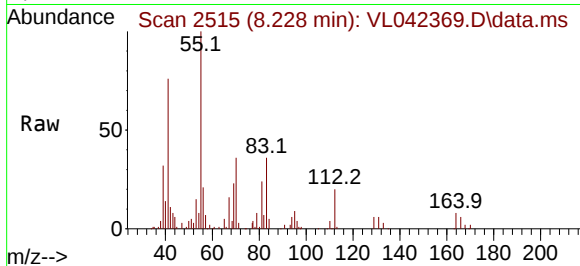




#52
Tetrachloroethene
Concen: 0.102 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

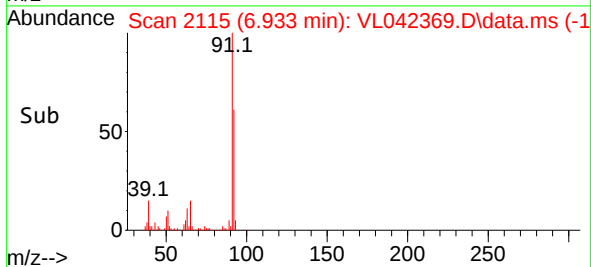
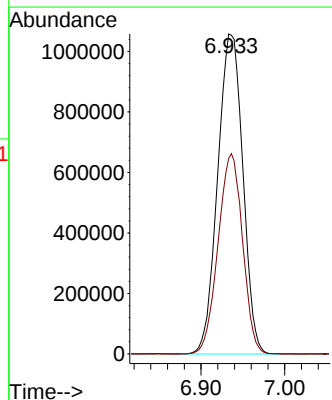
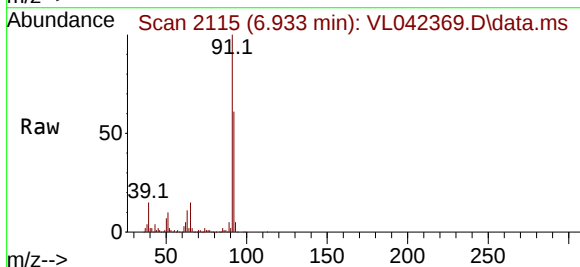
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

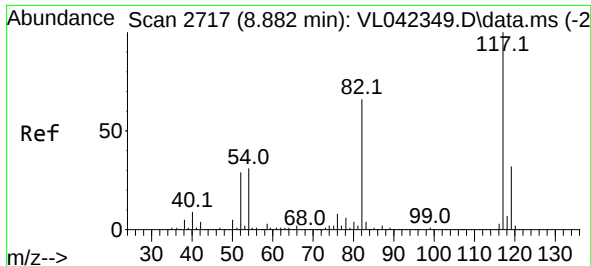
Tgt Ion:164 Resp: 1403
Ion Ratio Lower Upper
164 100
166 68.5 98.2 147.2#
129 77.8 81.8 122.8#
131 71.0 80.5 120.7#



#53
Toluene
Concen: 51.432 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 2204506
Ion Ratio Lower Upper
91 100
92 60.8 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

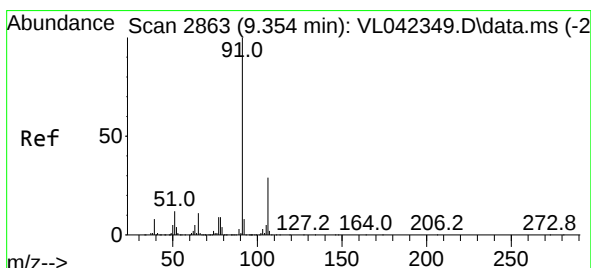
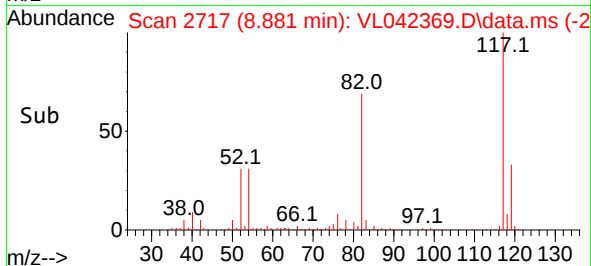
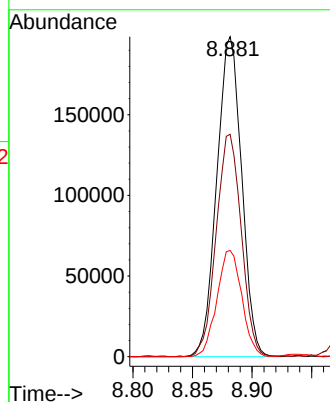
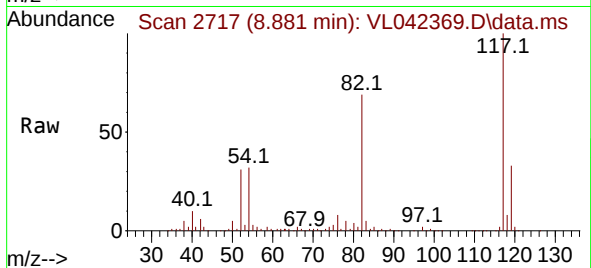
Tgt Ion:117 Resp: 288378

Ion Ratio Lower Upper

117 100

82 70.2 57.8 86.6

119 33.2 25.2 37.8



#58

Ethyl Benzene

Concen: 11.323 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.000 min

Lab File: VL042369.D

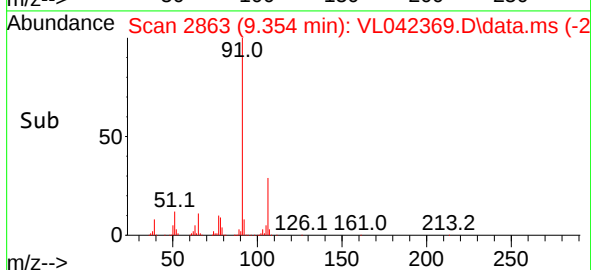
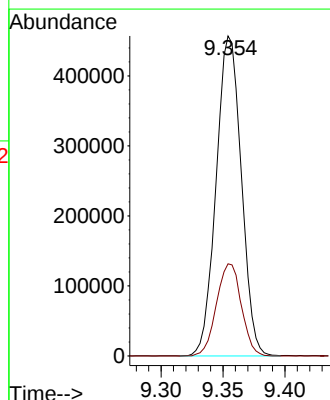
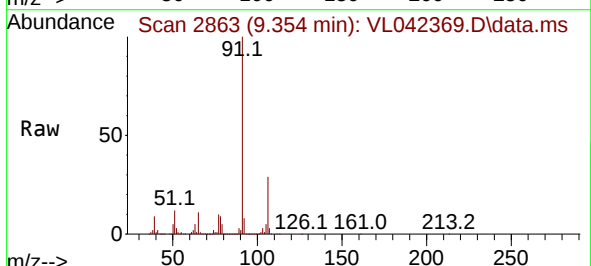
Acq: 17 Apr 2025 21:45

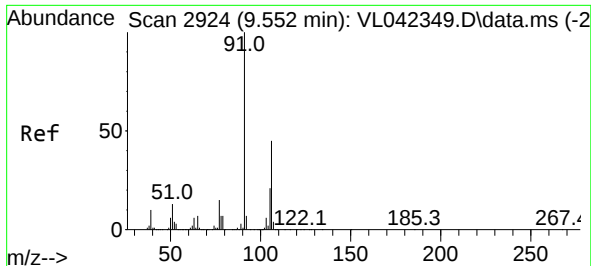
Tgt Ion: 91 Resp: 646931

Ion Ratio Lower Upper

91 100

106 28.8 23.0 34.4





#59

m/p-Xylene

Concen: 38.886 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

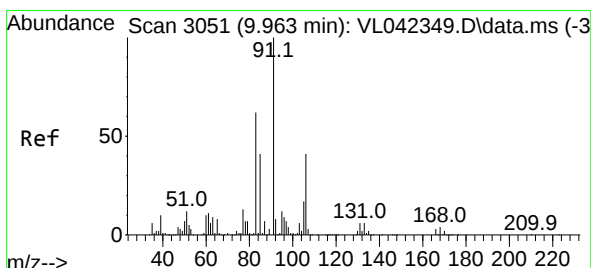
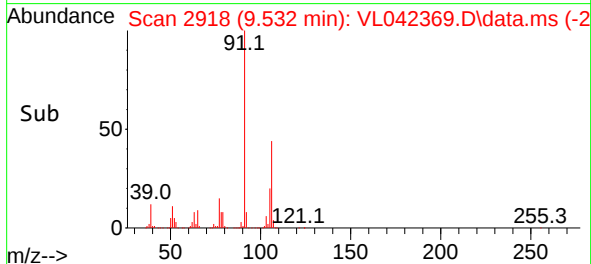
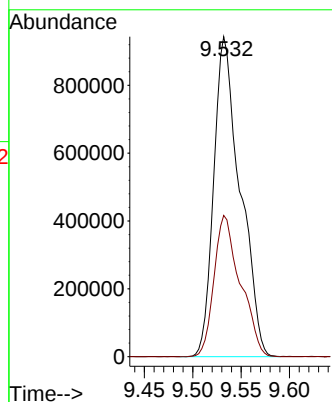
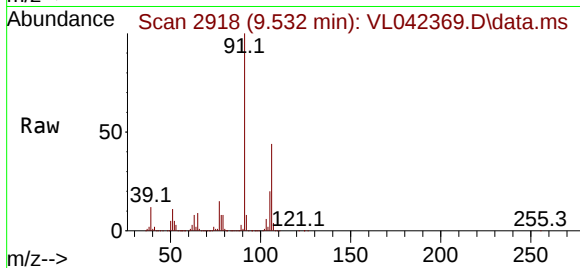
IA-B2-5-03312025

Tgt Ion: 91 Resp: 1789840

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 15.308 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042369.D

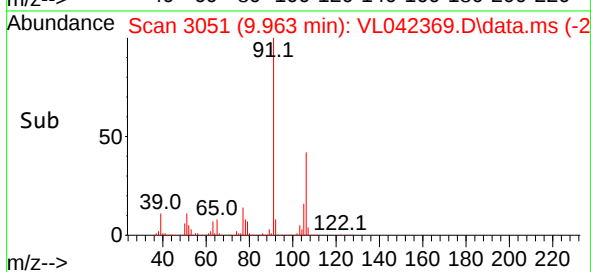
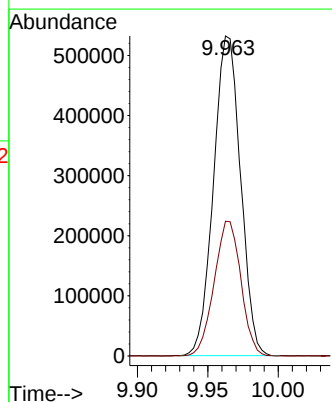
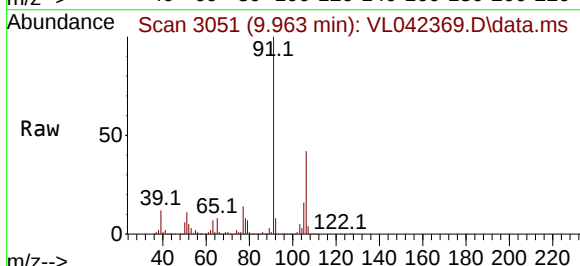
Acq: 17 Apr 2025 21:45

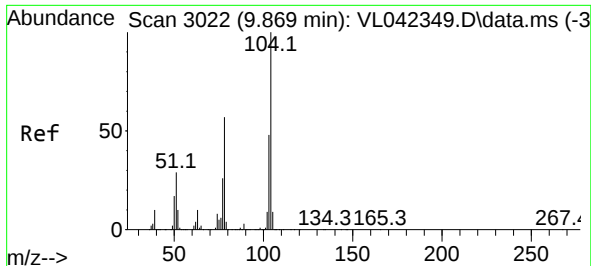
Tgt Ion: 91 Resp: 709518

Ion Ratio Lower Upper

91 100

106 41.7 21.1 63.4

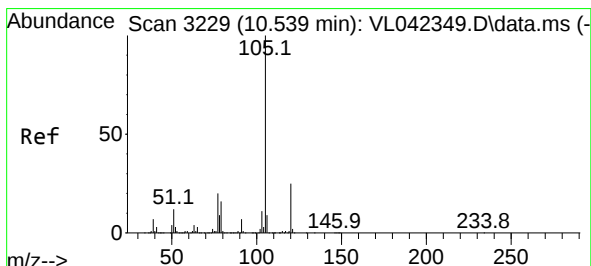
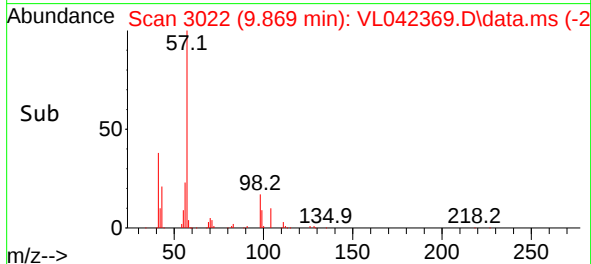
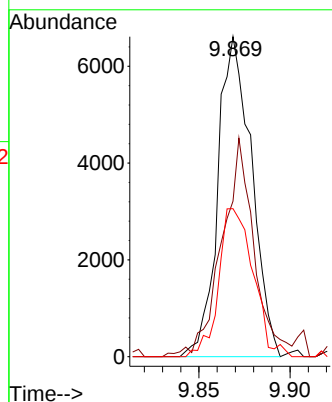
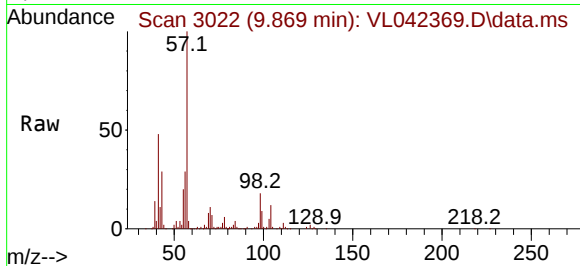




#61
Styrene
Concen: 0.384 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

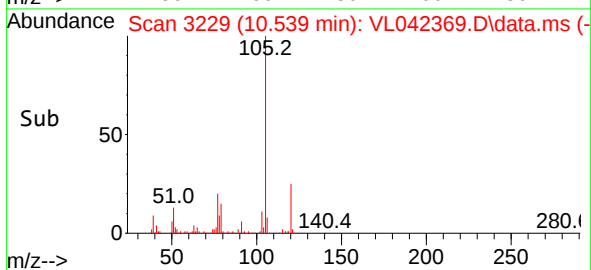
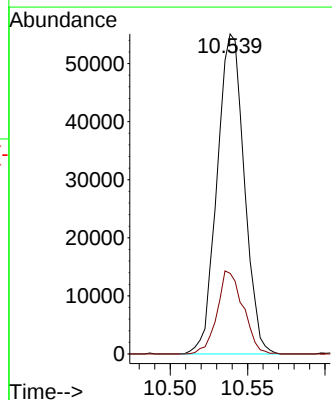
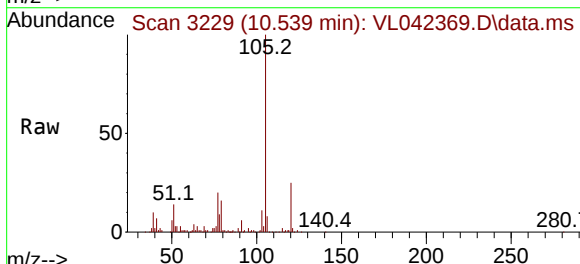
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

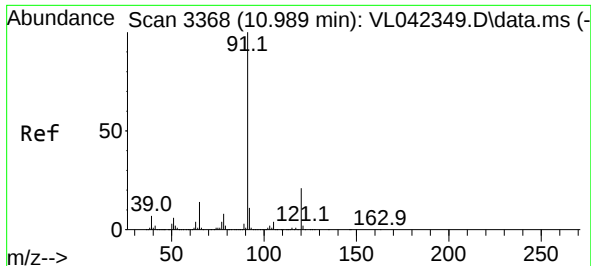
Tgt Ion:104 Resp: 8504
Ion Ratio Lower Upper
104 100
78 67.3 44.6 66.8#
103 47.5 37.4 56.0



#62
Isopropylbenzene
Concen: 0.989 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 67289
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8

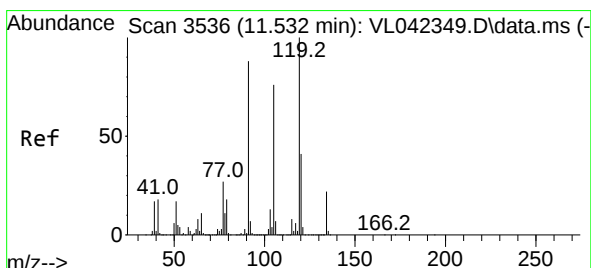
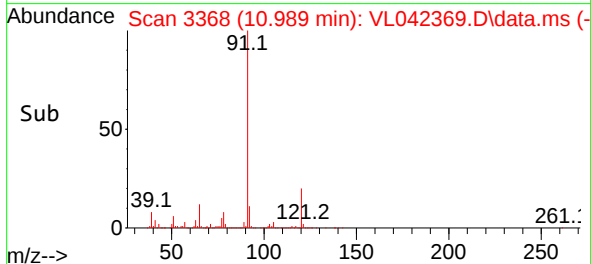
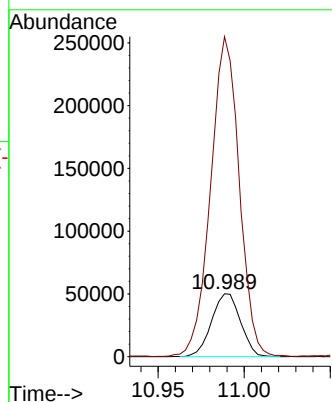
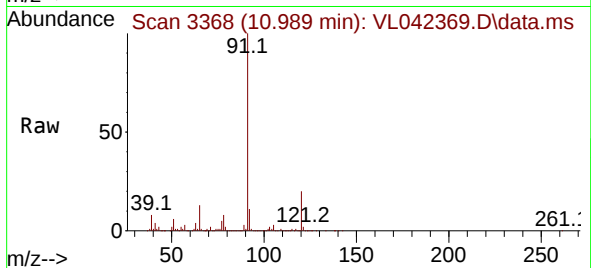




#64
n-propylbenzene
Concen: 3.428 ppbv
RT: 10.989 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

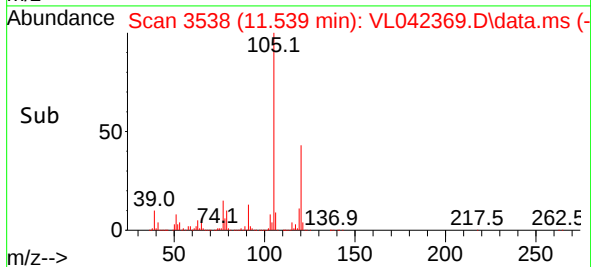
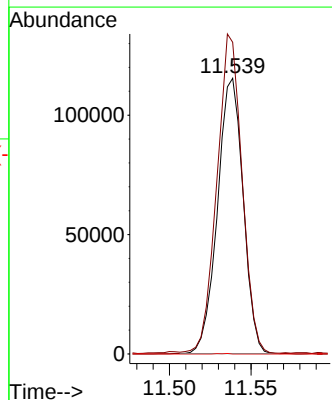
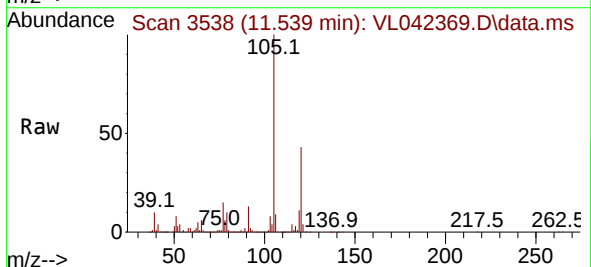
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

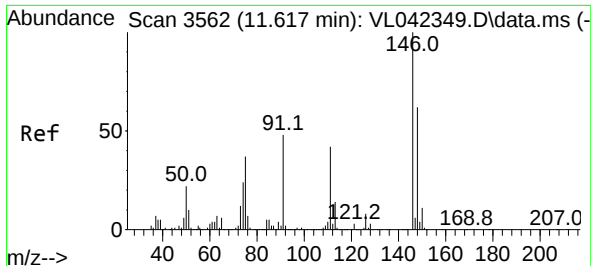
Tgt Ion:120 Resp: 58634
Ion Ratio Lower Upper
120 100
91 503.2 392.4 588.6



#65
tert-Butylbenzene
Concen: 2.015 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:119 Resp: 126017
Ion Ratio Lower Upper
119 100
91 115.1 74.6 111.8#
134 0.0 18.8 28.2#

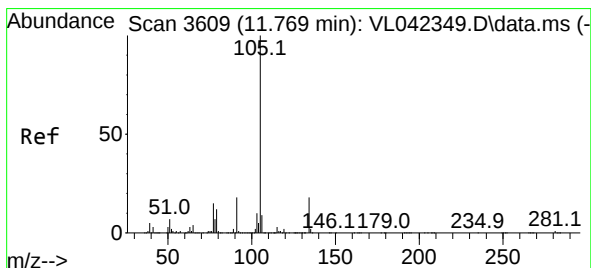
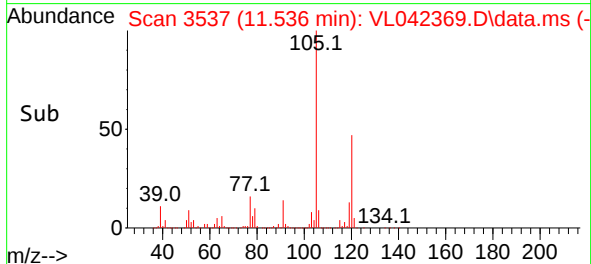
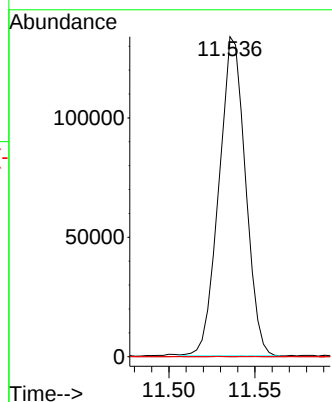
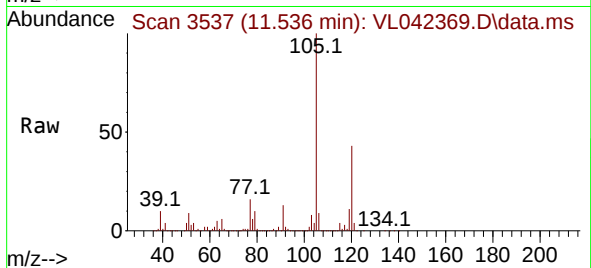




#66
Benzyl Chloride
Concen: 20.811 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.081 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

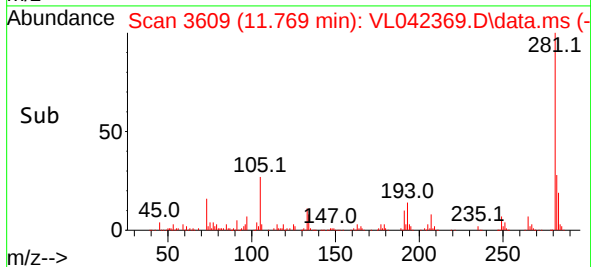
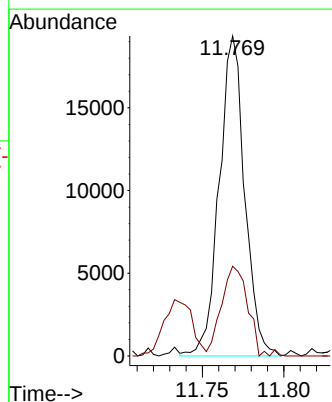
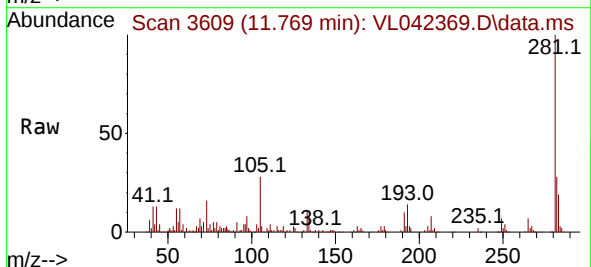
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

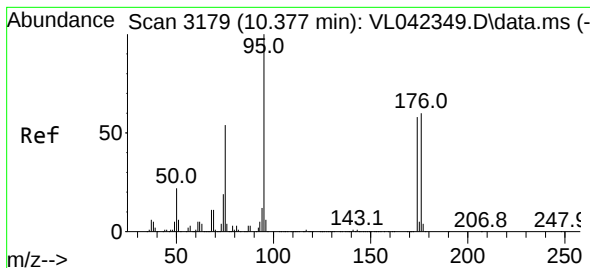
Tgt Ion: 91 Resp: 143029
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.1 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.241 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 105 Resp: 20996
Ion Ratio Lower Upper
105 100
134 28.2 14.6 21.8#

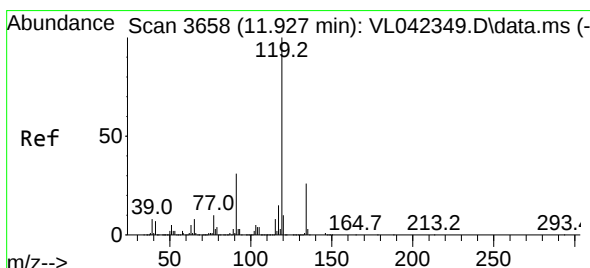
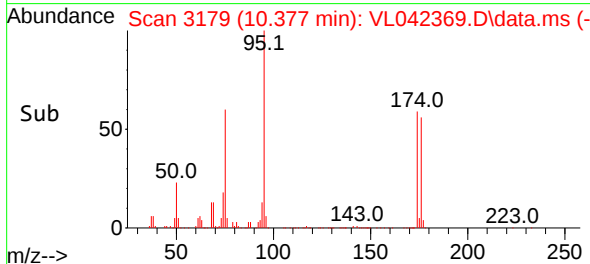
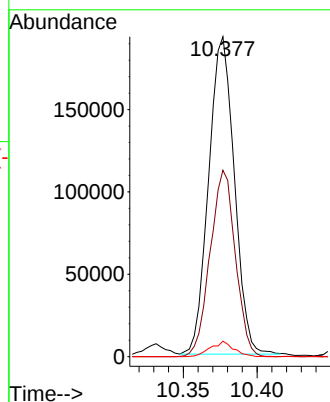
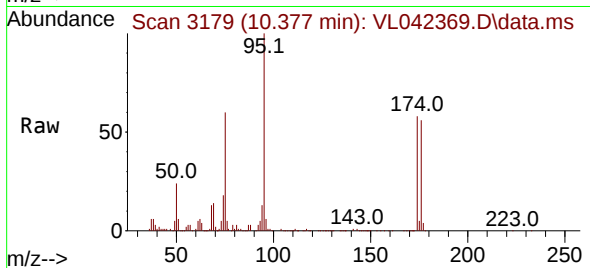




#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

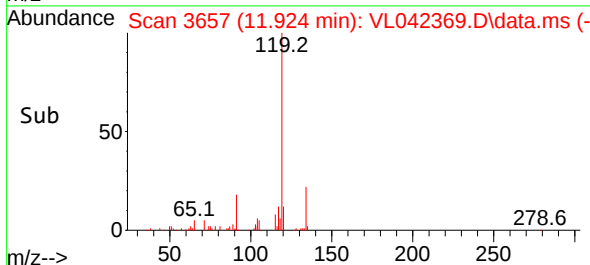
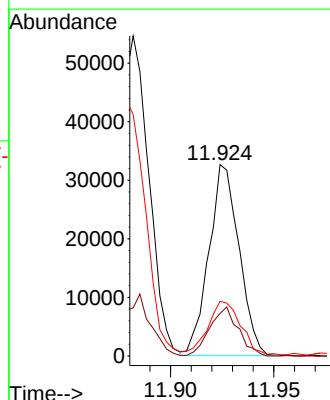
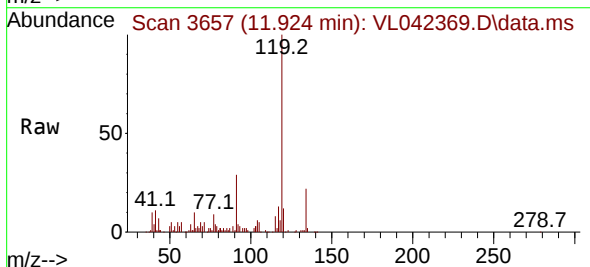
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

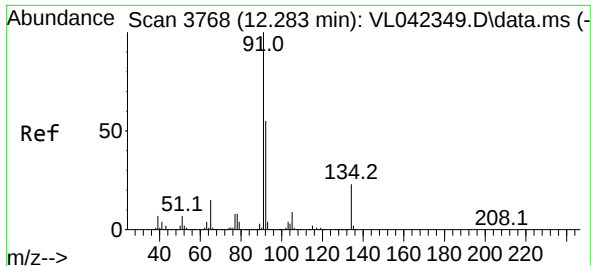
Tgt Ion: 95 Resp: 233305
Ion Ratio Lower Upper
95 100
174 57.7 48.5 72.7
175 4.4 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.440 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 119 Resp: 33273
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 29.1 24.4 36.6

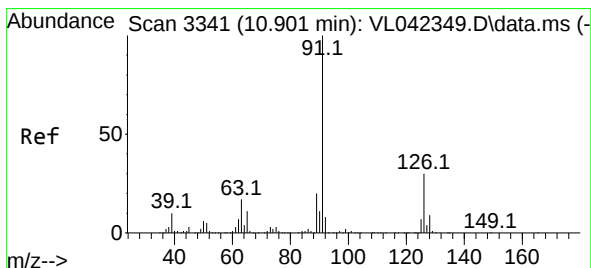
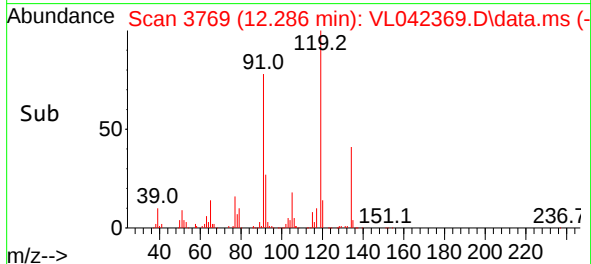
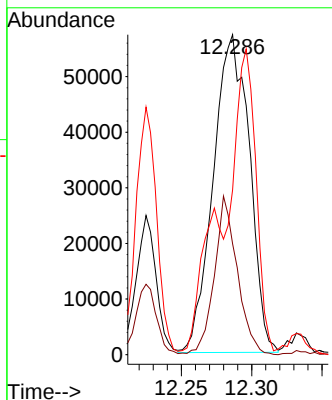
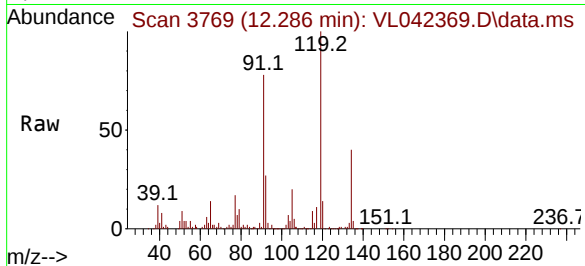




#70
n-Butylbenzene
Concen: 1.298 ppbv
RT: 12.286 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

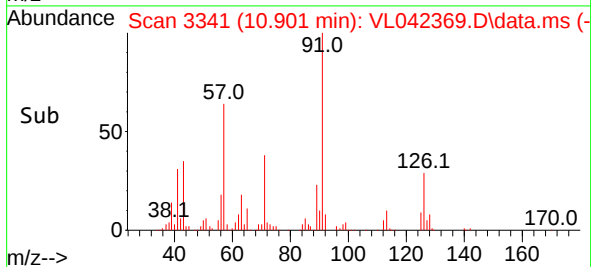
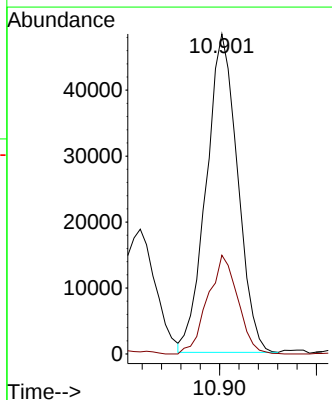
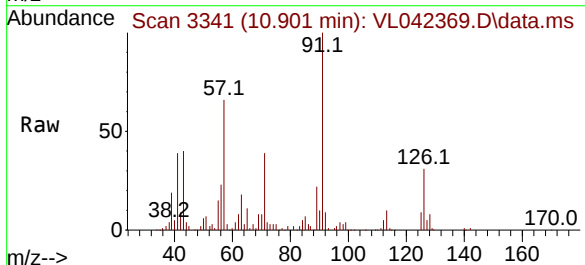
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

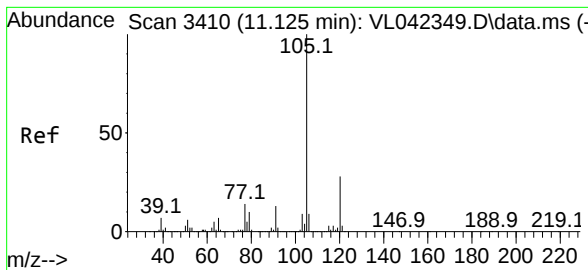
Tgt Ion: 91 Resp: 102145
Ion Ratio Lower Upper
91 100
92 31.6 44.2 66.4#
134 91.7 18.2 27.4#



#71
2-Chlorotoluene
Concen: 1.015 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 54169
Ion Ratio Lower Upper
91 100
126 29.8 11.4 45.4

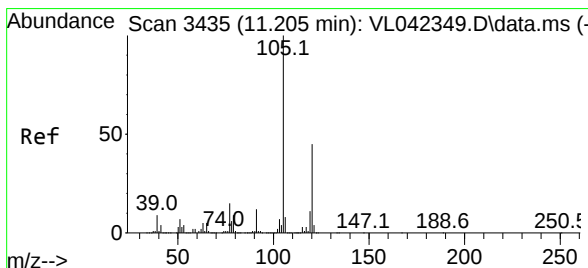
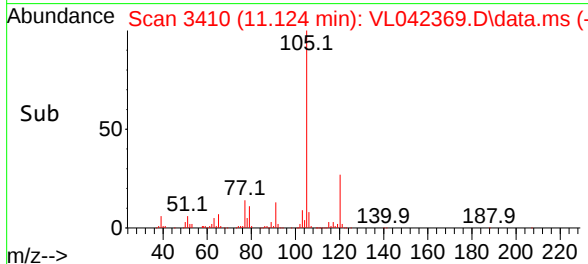
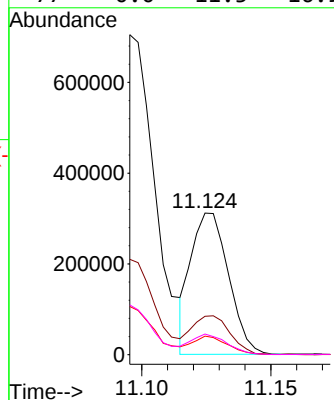
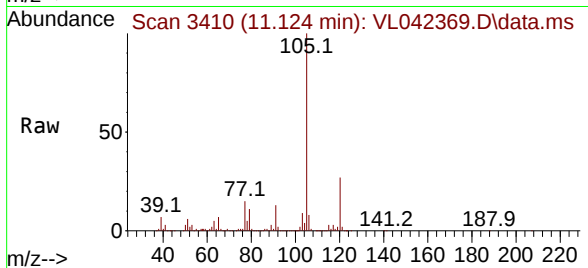




#72
4-Ethyltoluene
Concen: 5.540 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

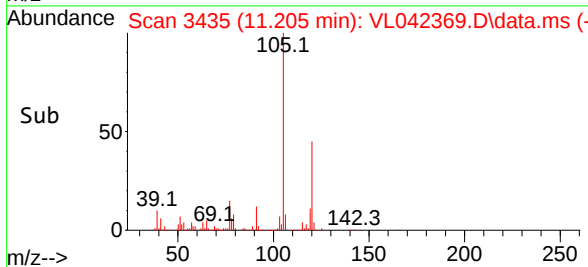
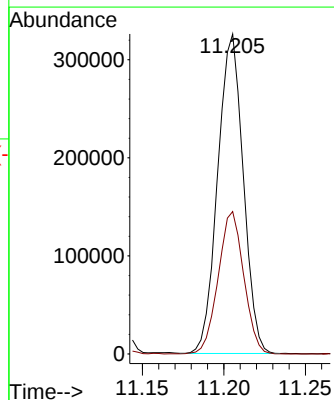
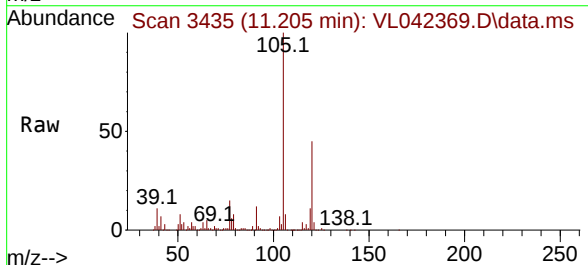
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

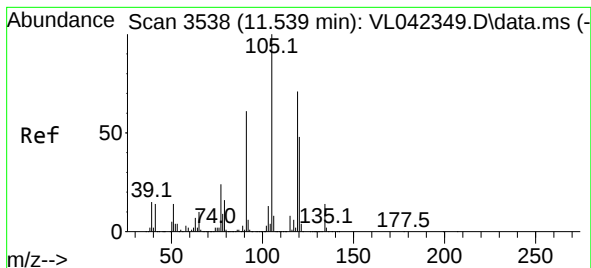
Tgt Ion:105	Resp:	313941
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.2 34.8#
91	0.0	10.4 15.6#
77	0.0	11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 7.091 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105	Resp:	354735
Ion Ratio	Lower	Upper
105	100	
120	44.5	35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 19.707 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

Tgt Ion:105 Resp: 1151476

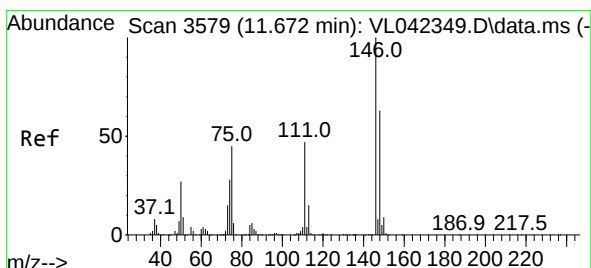
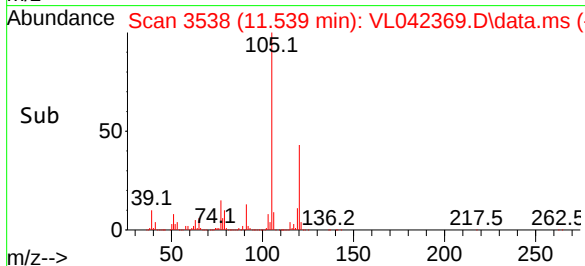
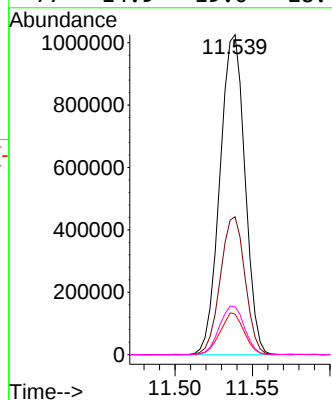
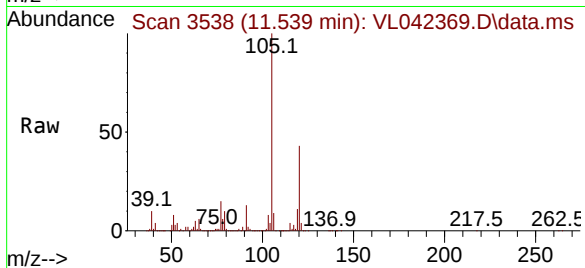
Ion Ratio Lower Upper

105 100

120 43.1 38.1 57.1

91 12.7 48.8 73.2#

77 14.9 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.342 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

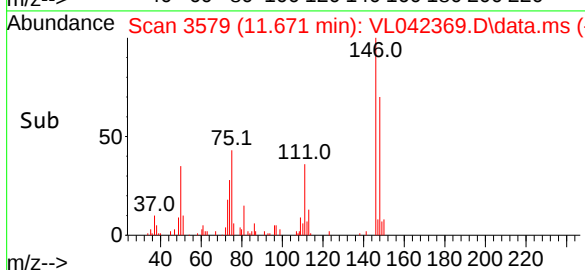
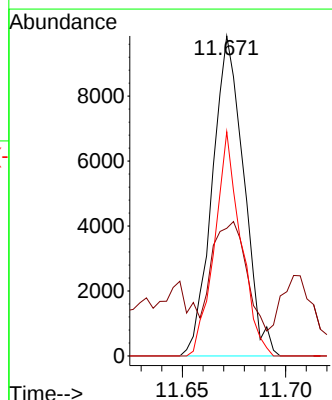
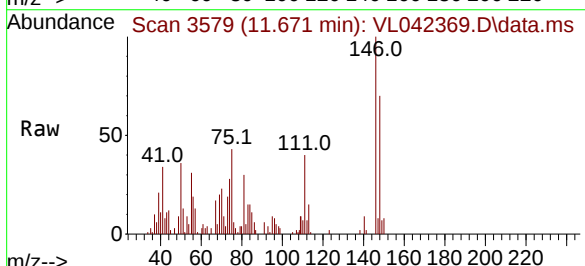
Tgt Ion:146 Resp: 10434

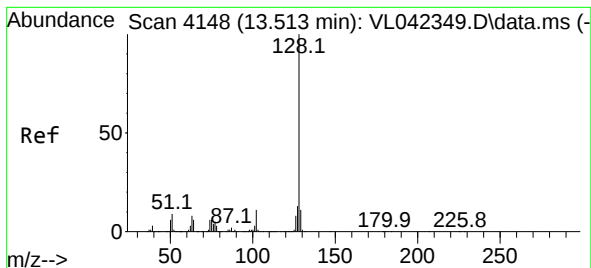
Ion Ratio Lower Upper

146 100

111 120.7 24.2 72.6#

148 58.5 32.1 96.5





#79

Naphthalene

Concen: 2.380 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

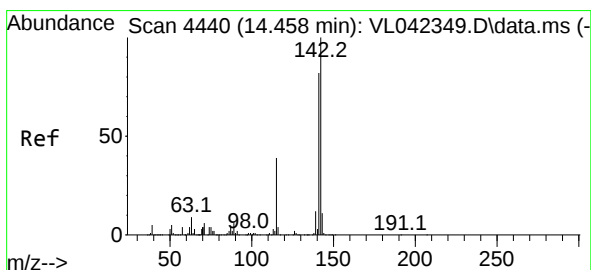
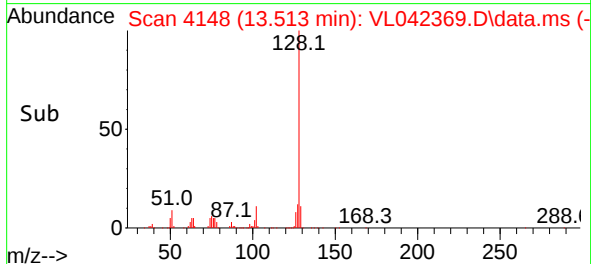
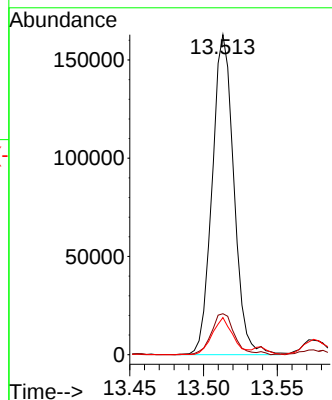
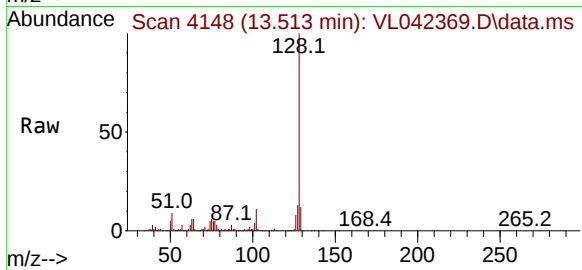
Tgt Ion:128 Resp: 166277

Ion Ratio Lower Upper

128 100

127 12.6 10.6 15.8

129 11.5 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 1.280 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Tgt Ion:142 Resp: 50980

Ion Ratio Lower Upper

142 100

141 83.1 66.8 100.2

115 47.9 33.4 50.2

