

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

Quant Time: Apr 18 02:42:22 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	122216	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	344823	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	303405	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	252701	10.136	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10356	0.480	ppbv	94
3) Chlorodifluoromethane	1.466	51	54573	2.654	ppbv #	63
4) Chloromethane	1.531	50	4947	0.579	ppbv	94
6) Bromomethane	1.664	94	144	0.036	ppbv #	8
7) Chloroethane	1.696	64	135	0.040	ppbv #	85
9) Propene	1.560	41	70824	7.563	ppbv	96
10) Heptane	4.978	43	219183	8.331	ppbv	97
11) Trichlorofluoromethane	1.877	101	5014	0.244	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	1157	0.069	ppbv	84
13) Ethanol	1.722	45	370679	249.050	ppbv	75
15) Acetone	1.835	43	3072130	153.552	ppbv #	43
16) 1,3-Butadiene	1.622	39	30747	3.213	ppbv #	15
17) tert-Butyl alcohol	2.046	59	13005	0.525	ppbv #	61
19) Isopropyl Alcohol	1.887	45	316355	28.464	ppbv #	33
20) Methylene Chloride	2.062	84	16692	2.130	ppbv	91
21) Allyl Chloride	2.046	41	3913	0.283	ppbv #	23
23) Vinyl Acetate	2.473	43	79634	9.833	ppbv #	49
25) Ethyl Acetate	2.826	43	77759	1.576	ppbv #	86
26) Hexane	2.826	57	94163	4.717	ppbv #	36
27) Carbon Disulfide	2.153	76	1109	0.052	ppbv #	42
30) Cyclohexane	3.855	84	31546	1.955	ppbv #	88
34) 2-Butanone	2.560	43	30497	1.118	ppbv	99
35) Carbon Tetrachloride	3.761	117	1489	0.048	ppbv	89
36) Benzene	3.654	78	64219	1.727	ppbv	97
37) 1,2-Dichloroethane	3.221	62	2839	0.127	ppbv #	62
39) 1,2-Dichloropropane	3.959	63	90263	6.513	ppbv #	24
41) Tetrahydrofuran	3.069	42	3495	0.220	ppbv #	80
42) Bromodichloromethane	4.515	83	6225	0.200	ppbv #	25
43) Methyl Methacrylate	4.894	69	1290	0.077	ppbv #	1
44) 2,2,4-Trimethylpentane	4.642	57	1167050	18.168	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	5813	0.128	ppbv #	61
51) 2-Hexanone	7.419	43	83604	2.057	ppbv #	32
52) Tetrachloroethene	8.231	164	1048	0.073	ppbv #	72
53) Toluene	6.940	91	2194341	49.165	ppbv	99
58) Ethyl Benzene	9.357	91	668072	11.113	ppbv	99
59) m/p-Xylene	9.535	91	1861243	38.435	ppbv	100
60) o-Xylene	9.966	91	753743	15.456	ppbv	99
61) Styrene	9.872	104	8179	0.351	ppbv	92
62) Isopropylbenzene	10.539	105	70653	0.987	ppbv	99
64) n-propylbenzene	10.992	120	59824	3.324	ppbv	92
65) tert-Butylbenzene	11.539	119	131539	1.999	ppbv #	73
66) Benzyl Chloride	11.539	91	148615	20.553	ppbv #	70
67) sec-Butylbenzene	11.769	105	21870	0.239	ppbv #	82

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

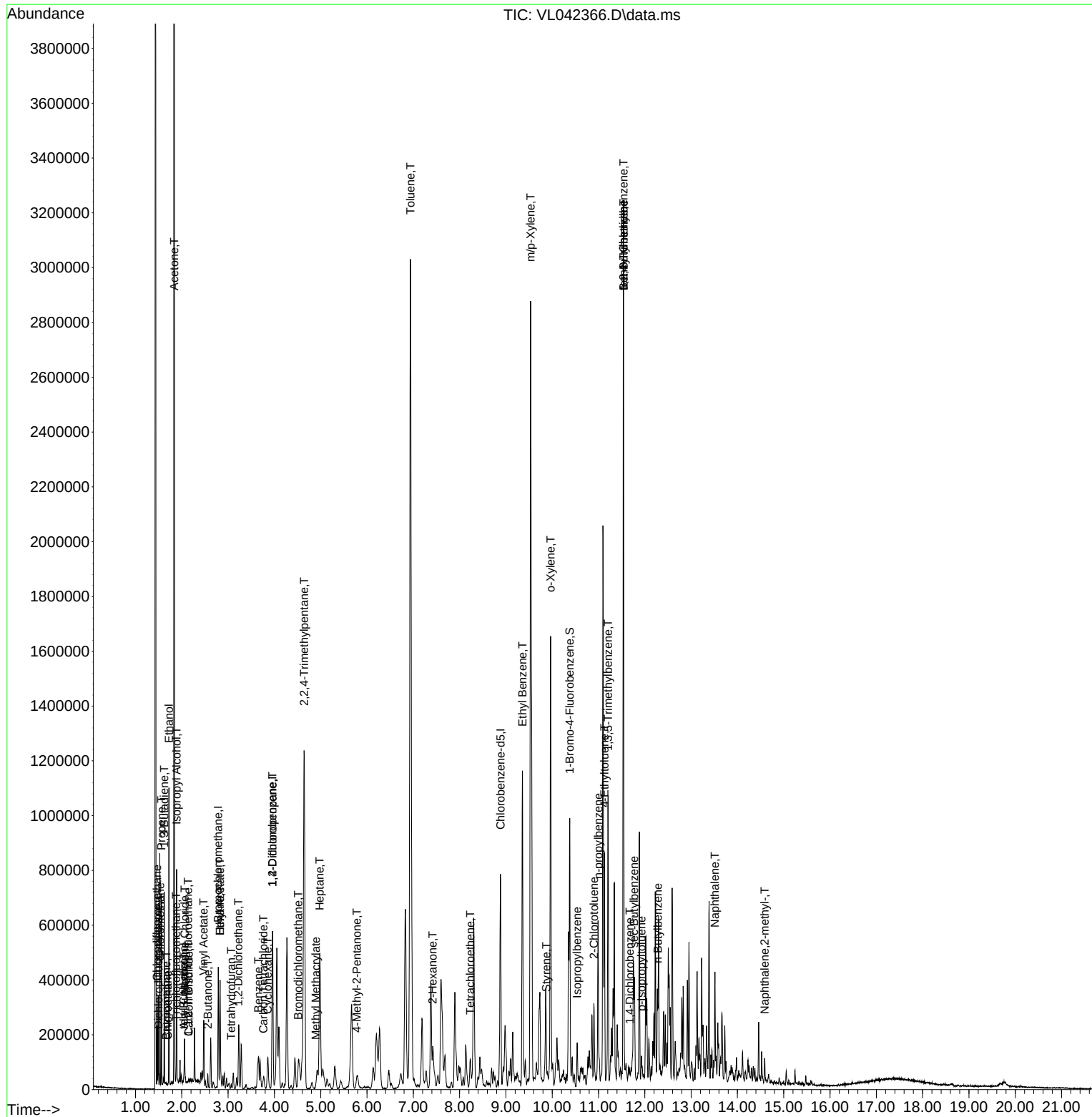
69) p-Isopropyltoluene	11.927	119	29958	0.377	ppbv	98
70) n-Butylbenzene	12.283	91	67288	0.812	ppbv #	81
71) 2-Chlorotoluene	10.901	91	53769	0.958	ppbv	99
72) 4-Ethyltoluene	11.128	105	338919	5.685	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	368859	7.008	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	1184512	19.268	ppbv #	66
76) 1,4-Dichlorobenzene	11.672	146	8250	0.257	ppbv #	36
79) Naphthalene	13.513	128	171574	2.334	ppbv	99
80) Naphthalene,2-methyl-	14.588	142	23011	0.549	ppbv	87

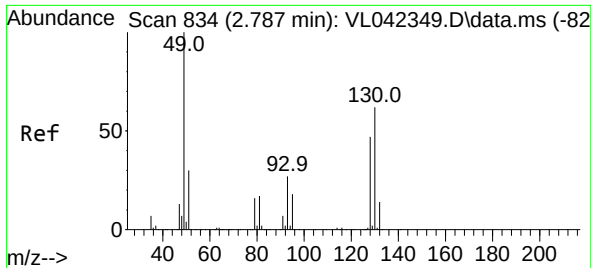
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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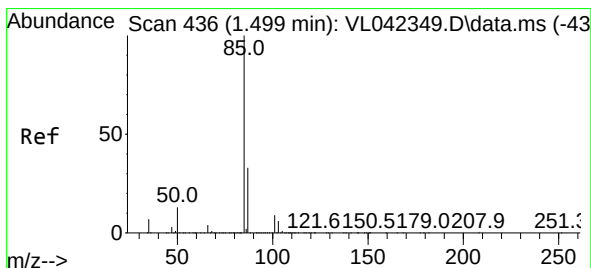
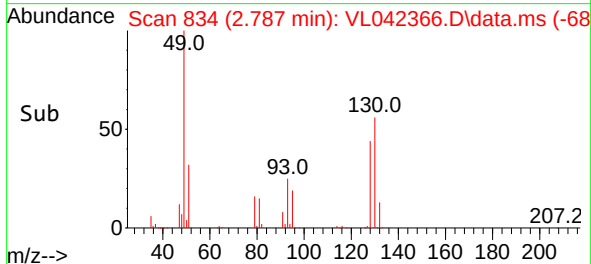
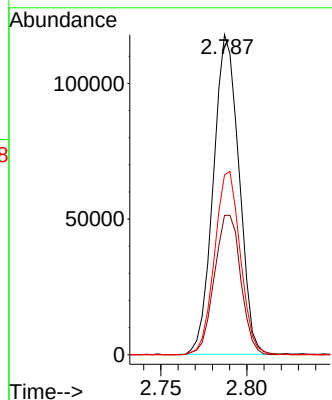
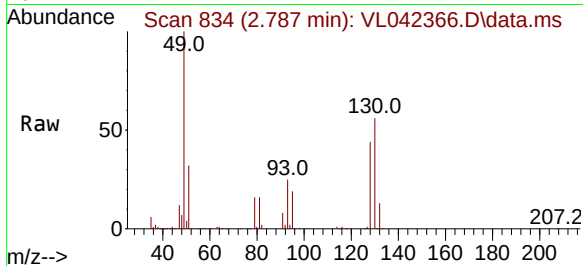




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

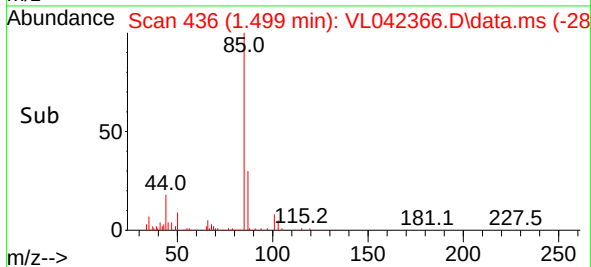
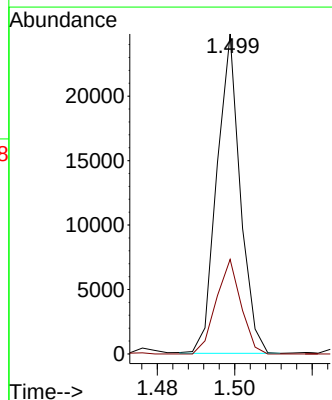
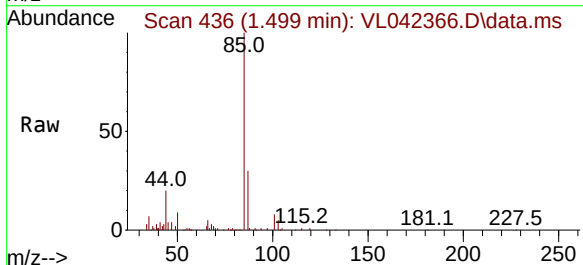
Instrument :
 MSVOA_L
 ClientSampleId :
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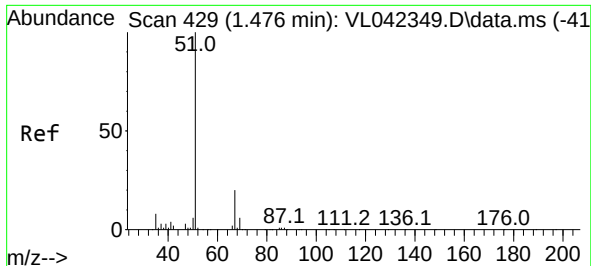
Tgt Ion: 49 Resp: 122216
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.8 68.4
 130 57.5 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.480 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion: 85 Resp: 10356
 Ion Ratio Lower Upper
 85 100
 87 29.6 26.6 39.8

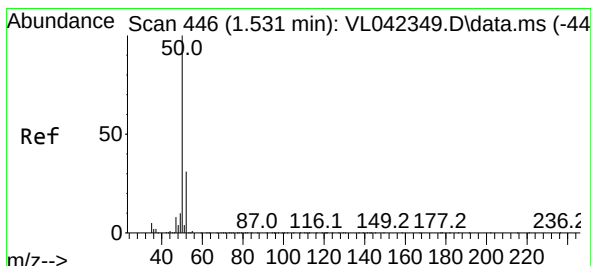
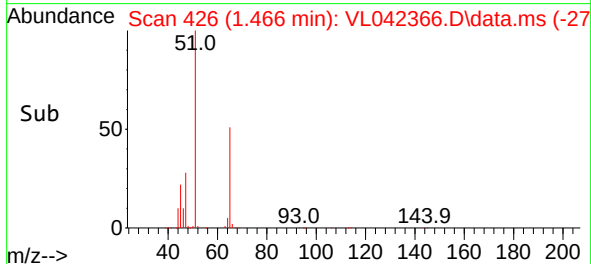
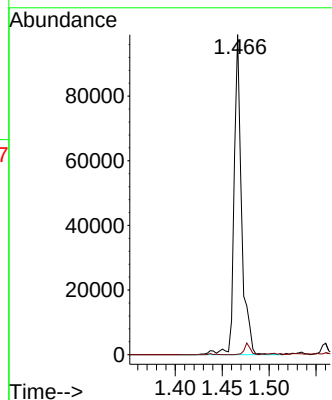
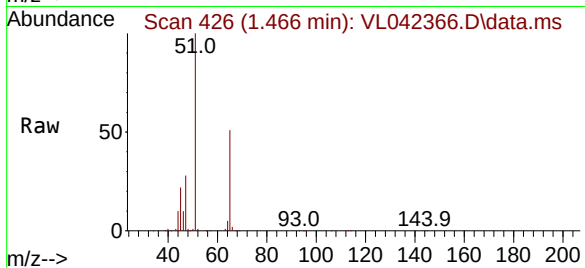




#3
Chlorodifluoromethane
Concen: 2.654 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

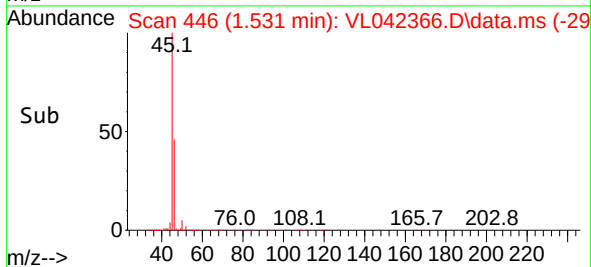
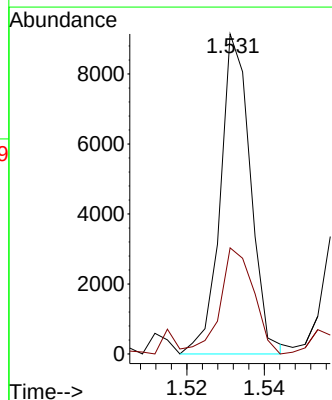
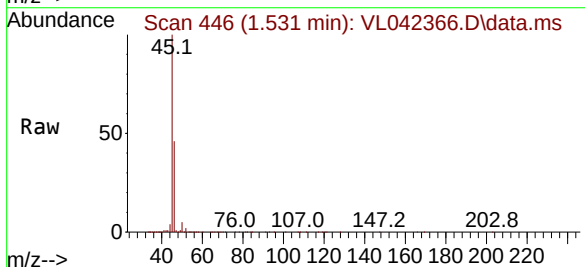
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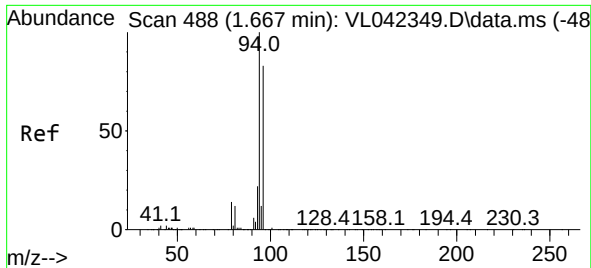
Tgt Ion: 51 Resp: 54573
Ion Ratio Lower Upper
51 100
67 3.3 16.2 24.4#



#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 50 Resp: 4947
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1

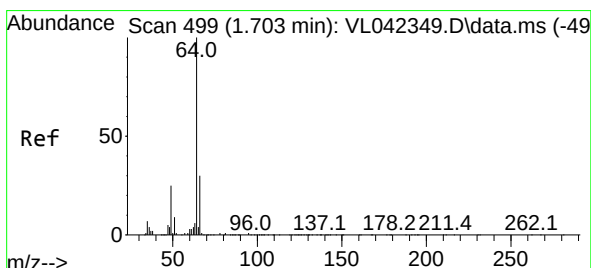
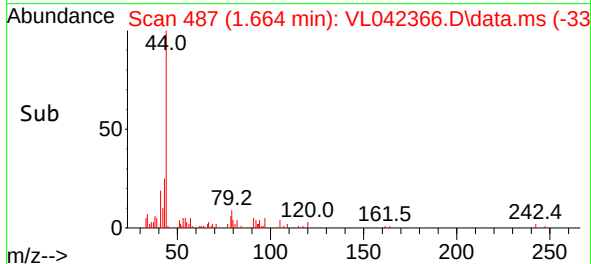
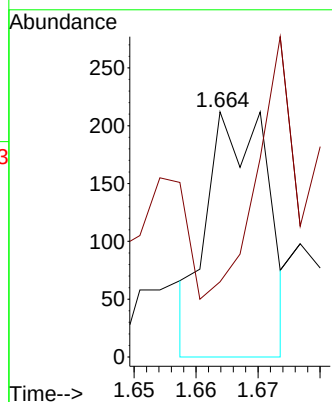
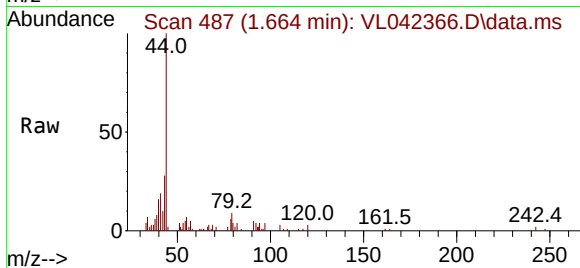




#6
Bromomethane
Concen: 0.036 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

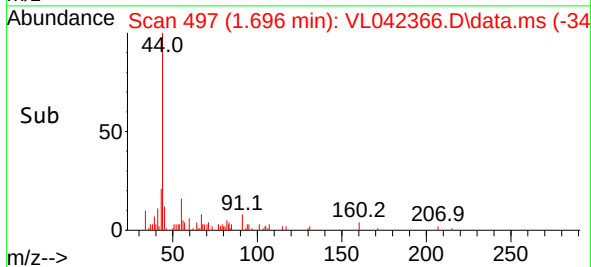
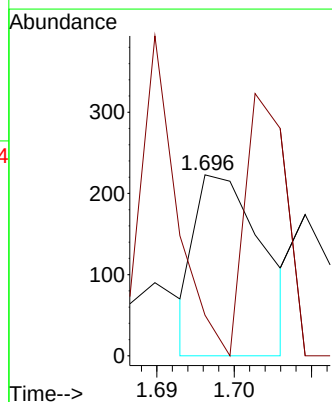
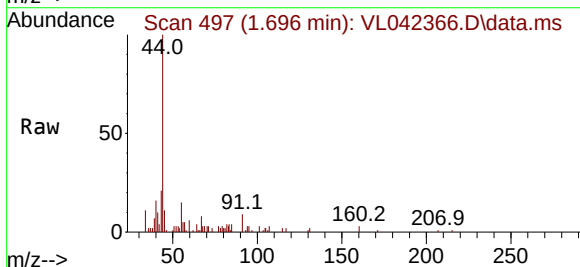
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

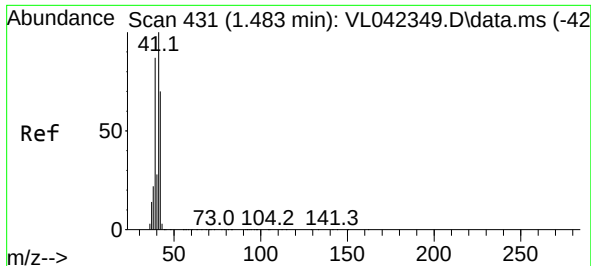
Tgt Ion: 94 Resp: 144
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.696 min Scan# 497
Delta R.T. -0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 64 Resp: 135
Ion Ratio Lower Upper
64 100
66 22.4 24.6 37.0#





#9

Propene

Concen: 7.563 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.078 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

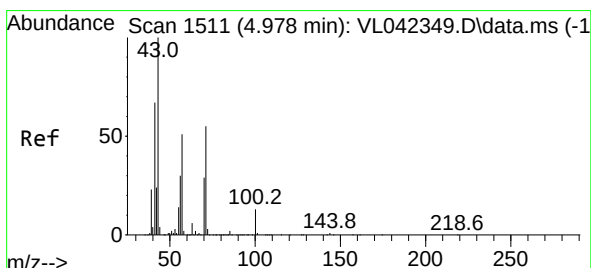
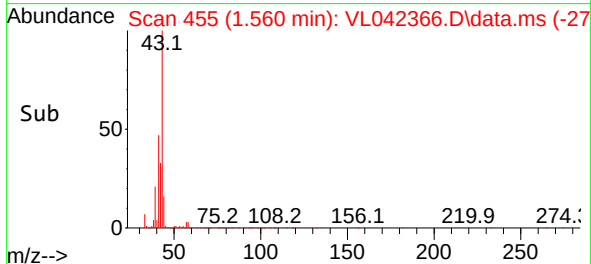
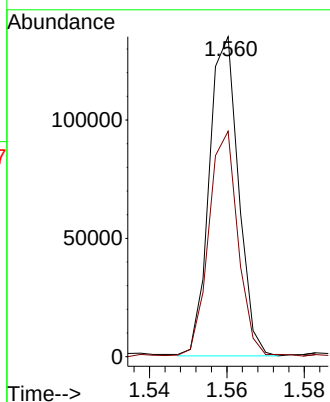
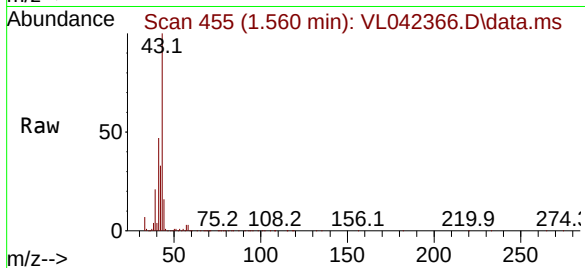
IA-DUP-3-03312025

Tgt Ion: 41 Resp: 70824

Ion Ratio Lower Upper

41 100

42 73.4 56.2 84.4



#10

Heptane

Concen: 8.331 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042366.D

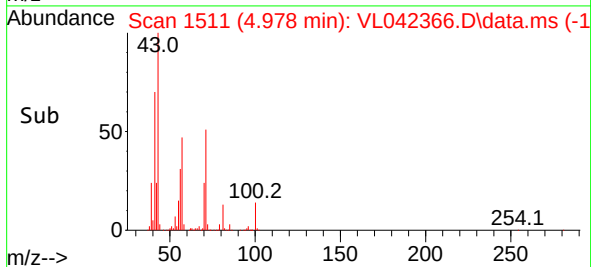
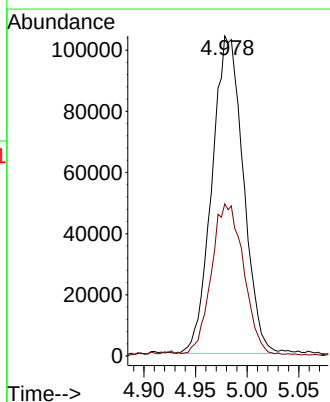
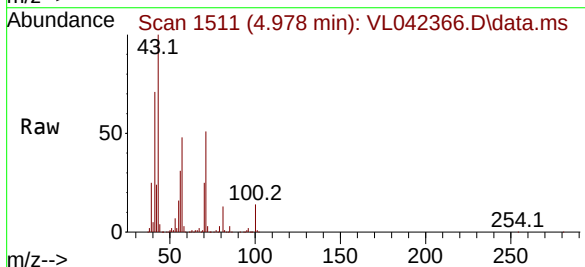
Acq: 17 Apr 2025 20:05

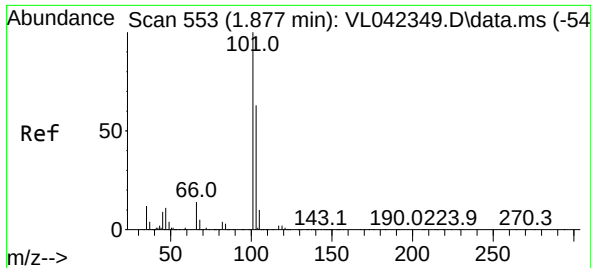
Tgt Ion: 43 Resp: 219183

Ion Ratio Lower Upper

43 100

57 51.9 39.9 59.9

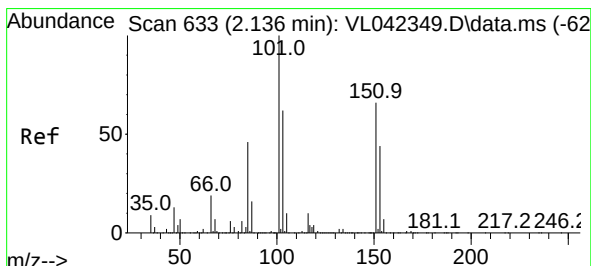
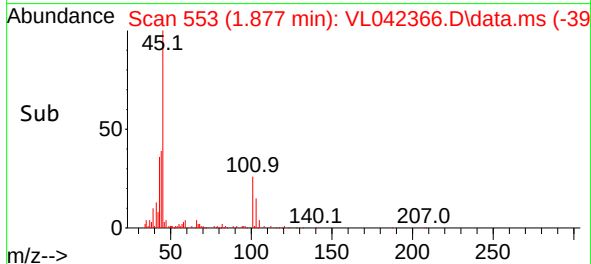
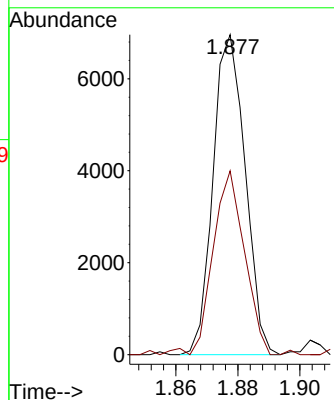
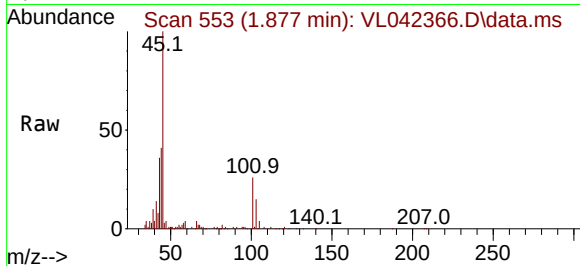




#11
 Trichlorofluoromethane
 Concen: 0.244 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

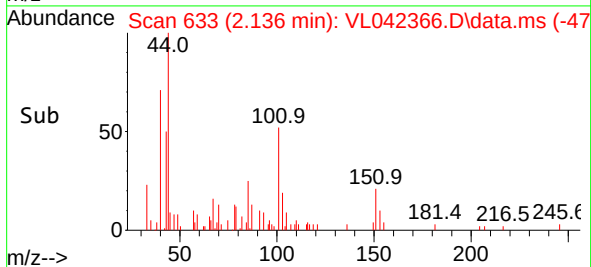
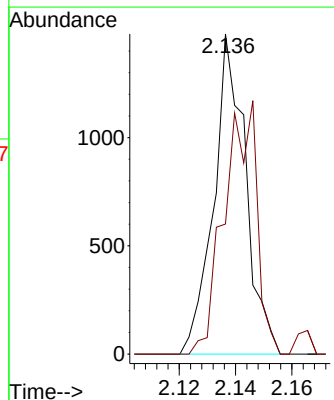
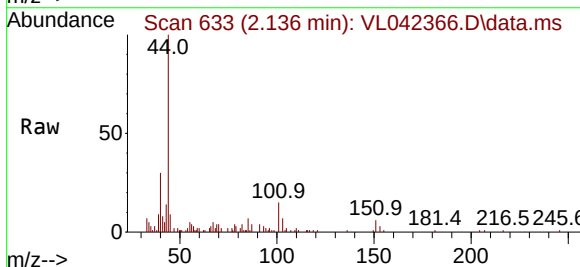
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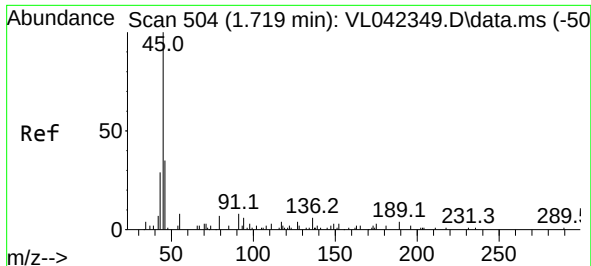
Tgt Ion:101 Resp: 5014
 Ion Ratio Lower Upper
 101 100
 103 57.5 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.069 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion:101 Resp: 1157
 Ion Ratio Lower Upper
 101 100
 151 84.4 57.0 85.6

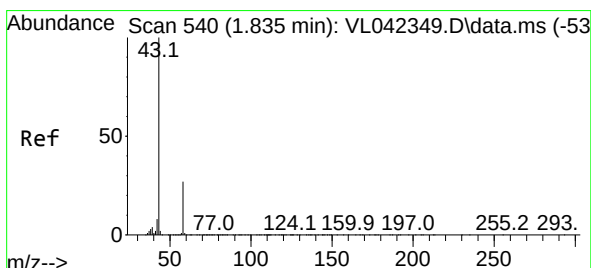
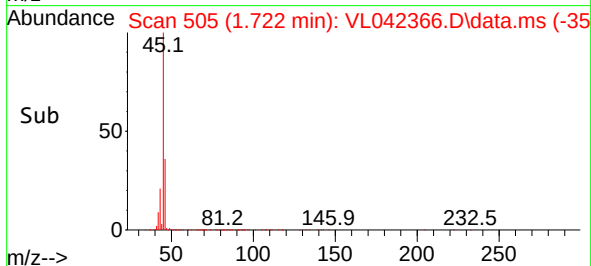
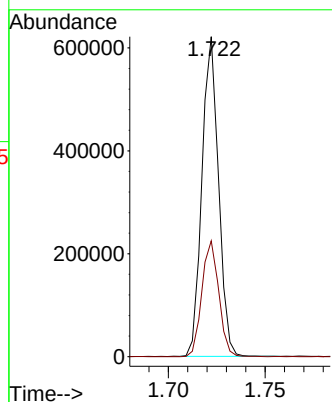
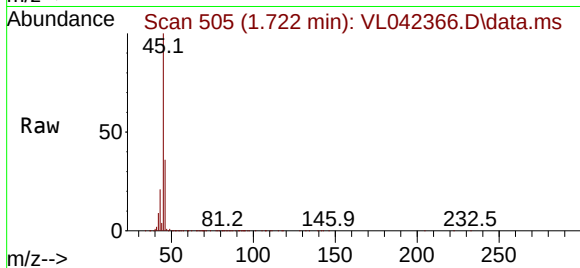




#13
Ethanol
Concen: 249.050 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

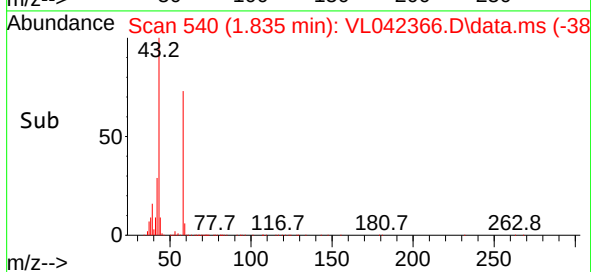
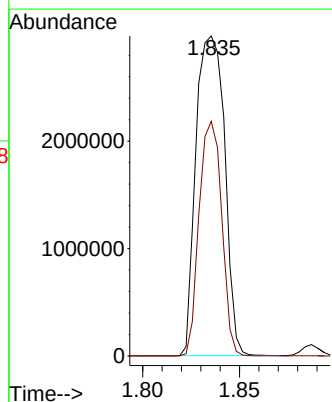
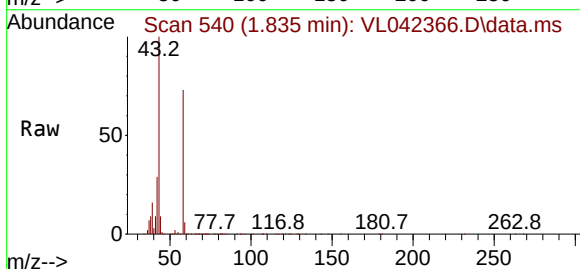
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

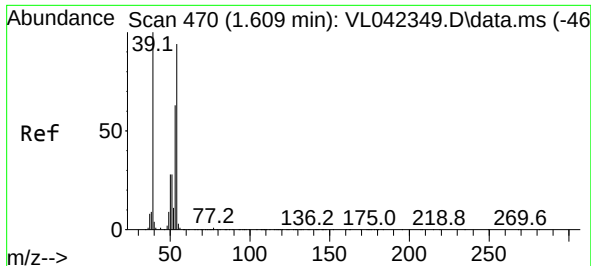
Tgt Ion: 45 Resp: 370679
Ion Ratio Lower Upper
45 100
46 37.1 21.9 87.7



#15
Acetone
Concen: 153.552 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 3072130
Ion Ratio Lower Upper
43 100
58 58.0 22.4 33.6#

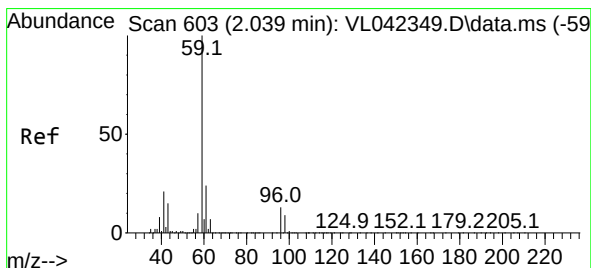
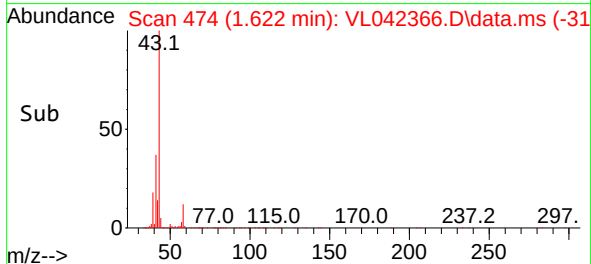
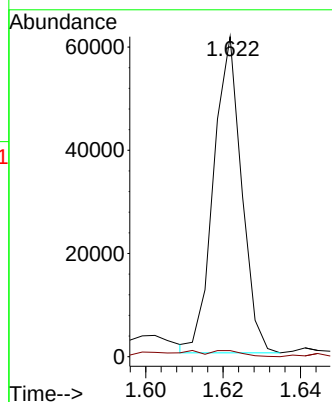
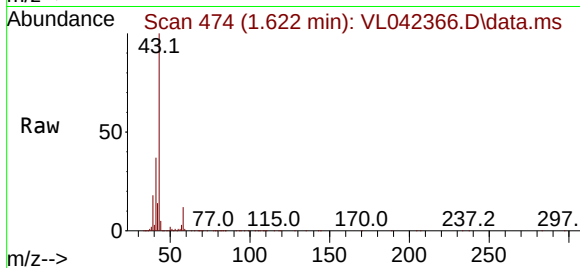




#16
1,3-Butadiene
Concen: 3.213 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

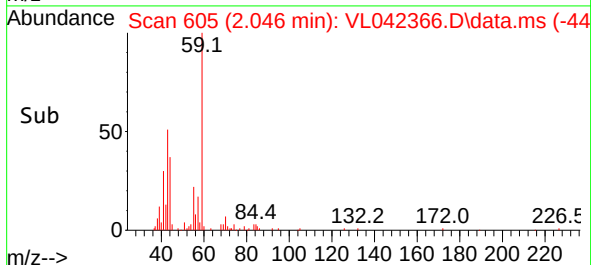
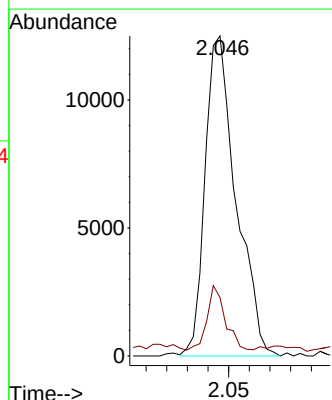
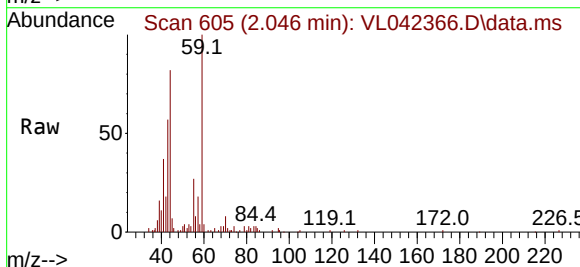
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

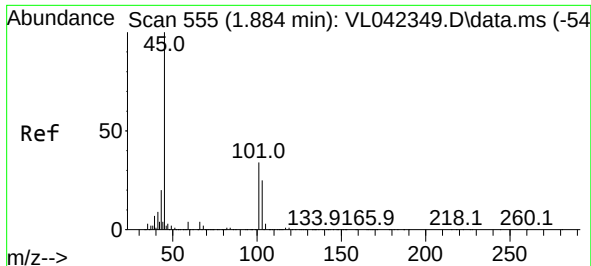
Tgt Ion: 39 Resp: 30747
Ion Ratio Lower Upper
39 100
54 5.9 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.525 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 59 Resp: 13005
Ion Ratio Lower Upper
59 100
57 25.8 8.7 13.1#

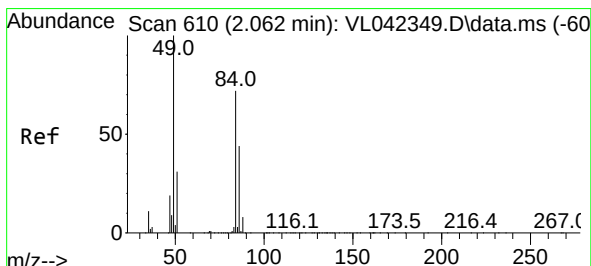
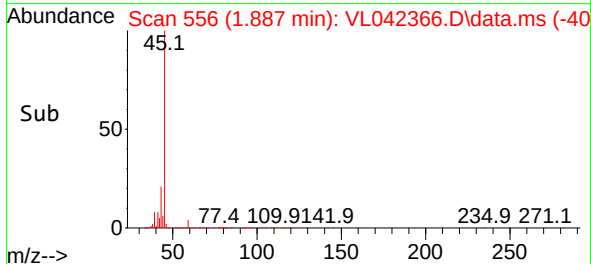
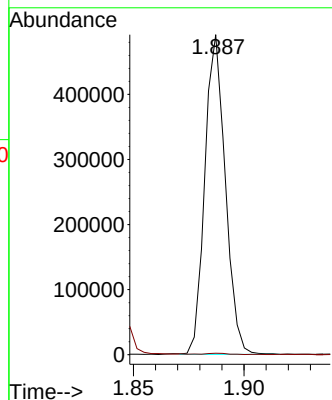
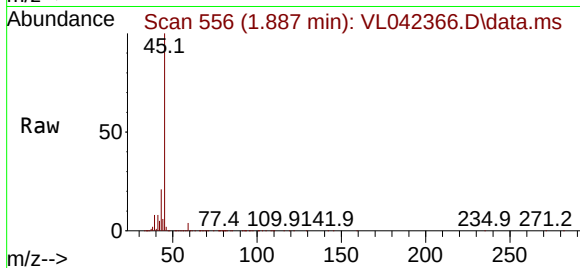




#19
Isopropyl Alcohol
Concen: 28.464 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

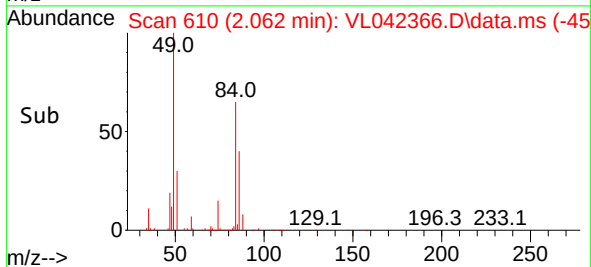
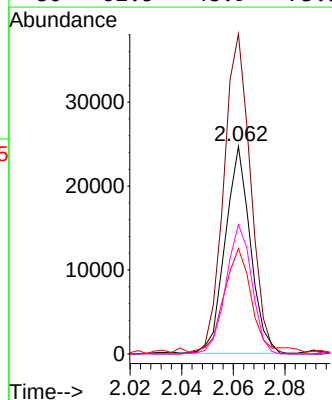
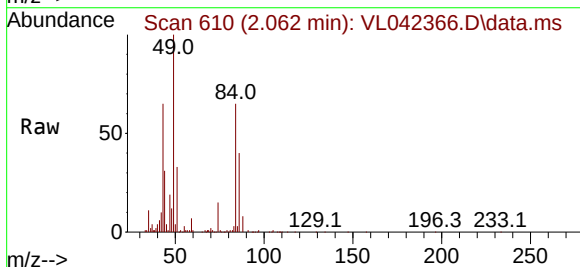
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

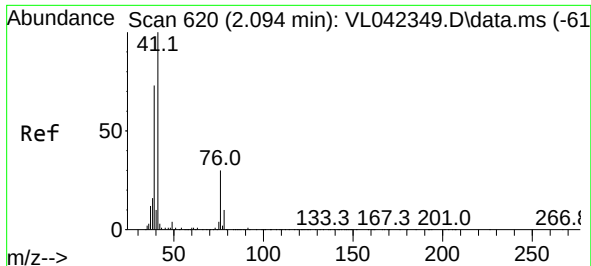
Tgt Ion: 45 Resp: 316355
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#



#20
Methylene Chloride
Concen: 2.130 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 84 Resp: 16692
Ion Ratio Lower Upper
84 100
49 154.6 111.6 167.4
51 48.0 35.1 52.7
86 62.5 48.9 73.3

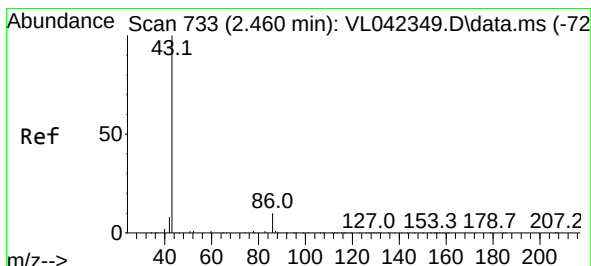
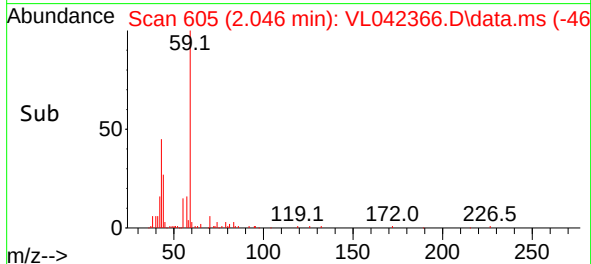
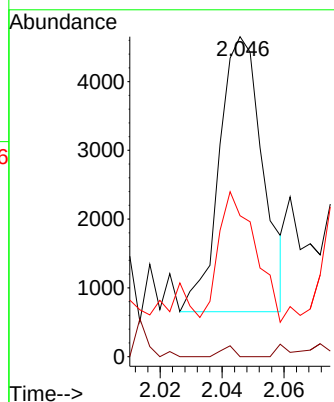
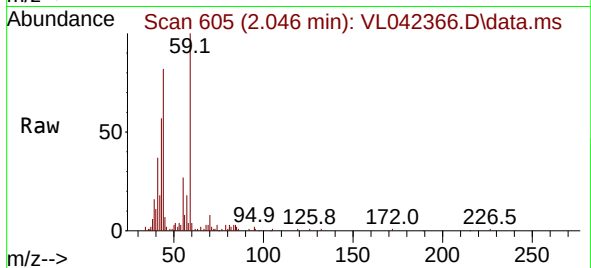




#21
 Allyl Chloride
 Concen: 0.283 ppbv
 RT: 2.046 min Scan# 605
 Delta R.T. -0.049 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

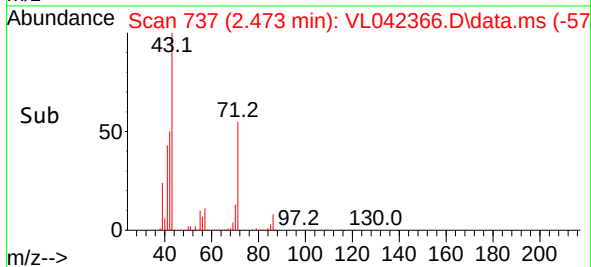
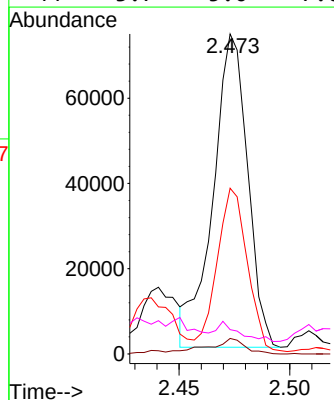
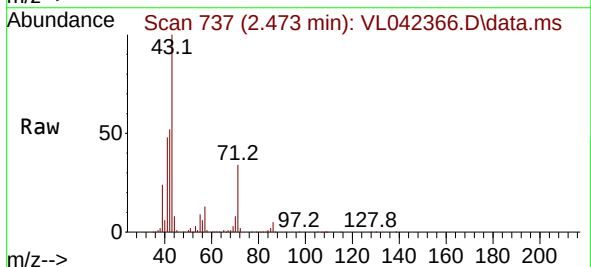
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

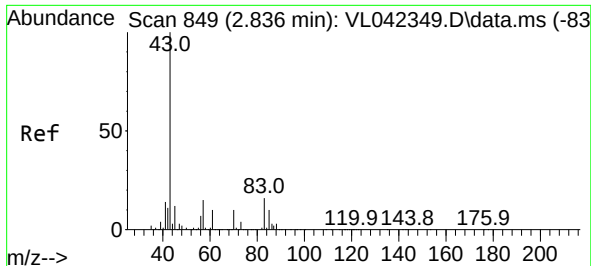
Tgt Ion: 41 Resp: 3913
 Ion Ratio Lower Upper
 41 100
 76 3.4 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 9.833 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.013 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 79634
 Ion Ratio Lower Upper
 43 100
 86 4.9 6.5 9.7#
 42 51.9 7.8 11.8#
 44 3.7 5.0 7.6#

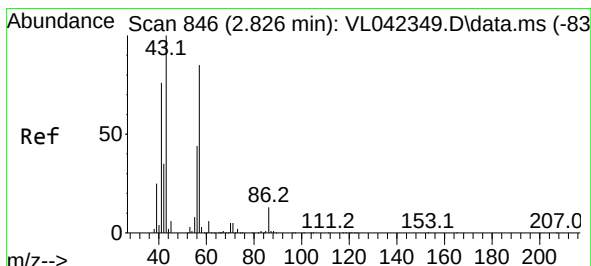
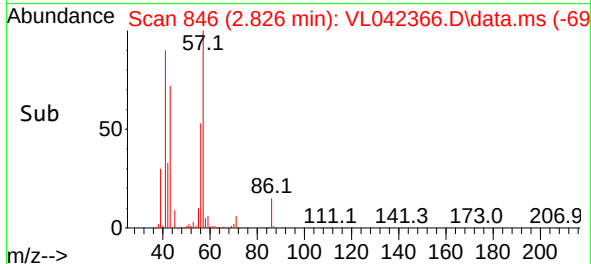
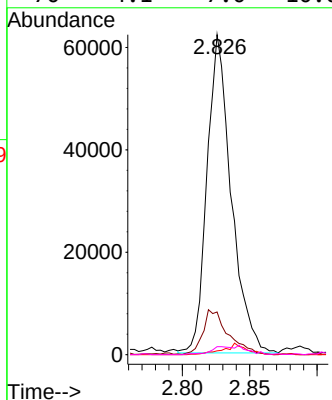
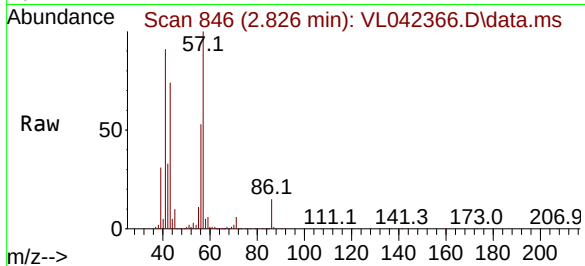




#25
Ethyl Acetate
Concen: 1.576 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

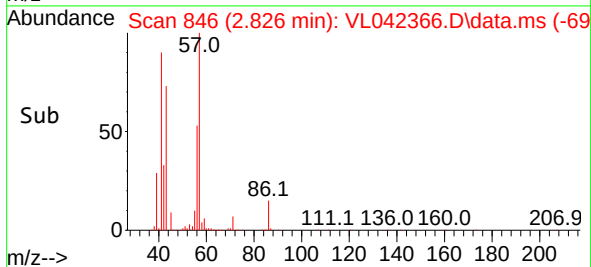
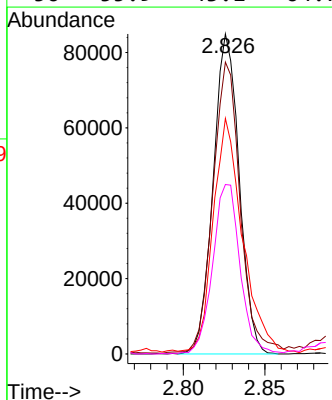
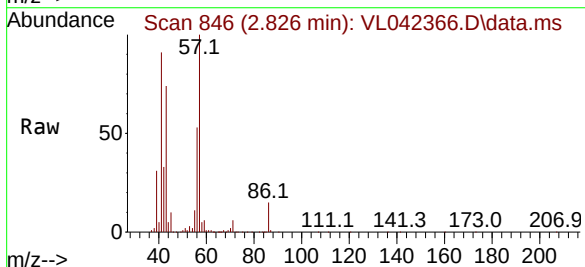
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

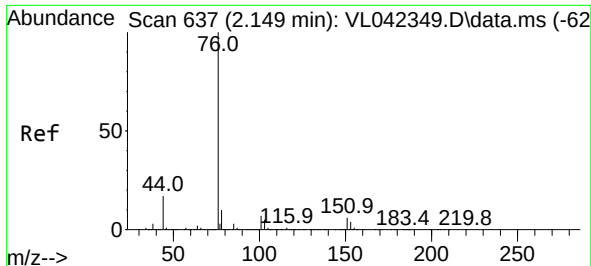
Tgt Ion: 43	Resp: 77759
Ion Ratio	Lower Upper
43 100	
45 14.9	8.3 12.5#
61 3.5	7.3 10.9#
70 4.1	7.0 10.6#



#26
Hexane
Concen: 4.717 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt	Ion: 57	Resp:	94163
Ion	Ratio	Lower	Upper
57	100		
41	95.7	77.9	116.9
43	83.0	208.4	312.6#
56	55.9	43.1	64.7





#27

Carbon Disulfide

Concen: 0.052 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

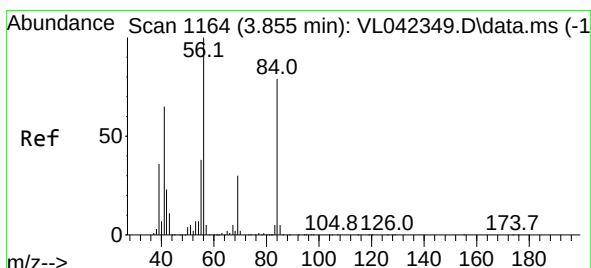
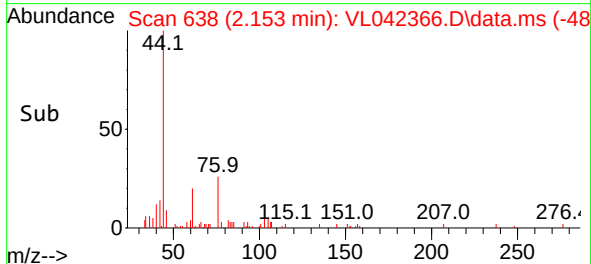
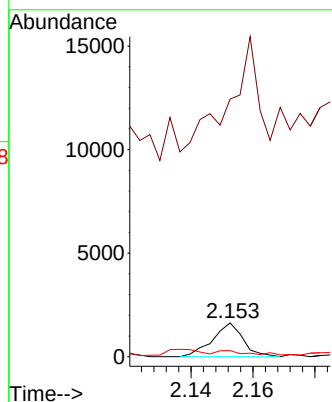
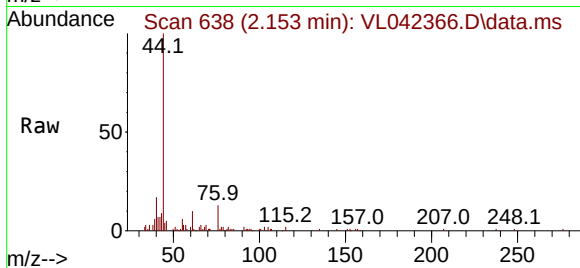
Tgt Ion: 76 Resp: 1109

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

78 43.6 9.3 13.9#



#30

Cyclohexane

Concen: 1.955 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

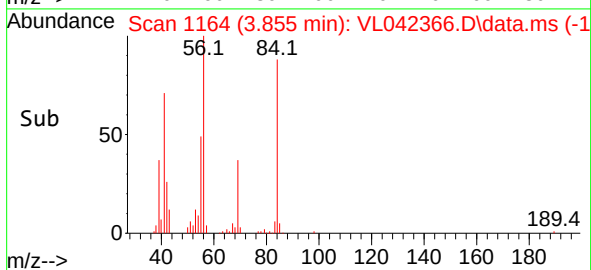
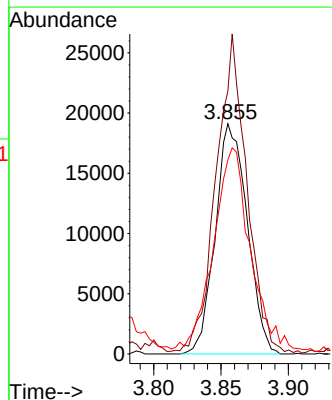
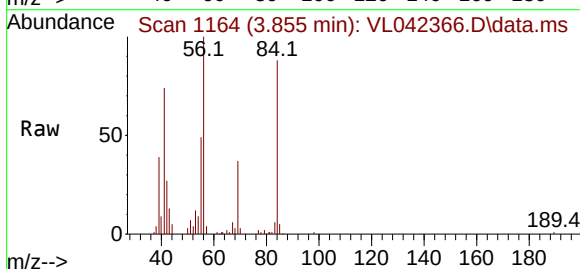
Tgt Ion: 84 Resp: 31546

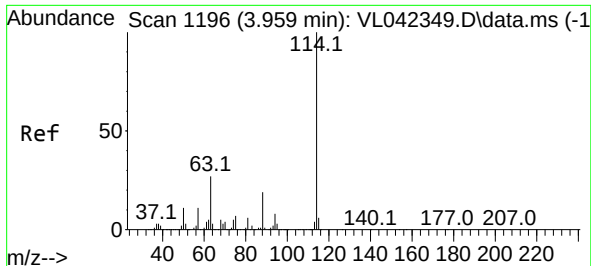
Ion Ratio Lower Upper

84 100

56 133.1 101.0 151.4

41 102.4 67.4 101.0#

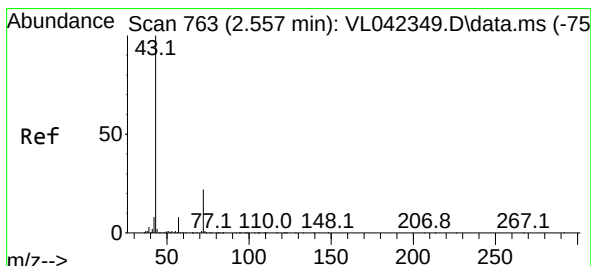
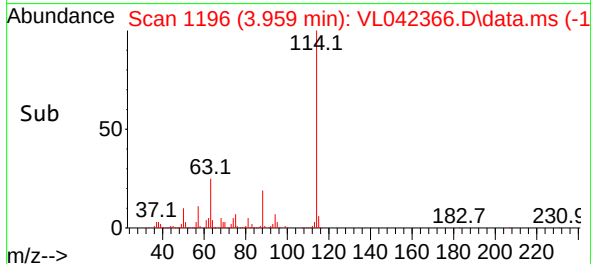
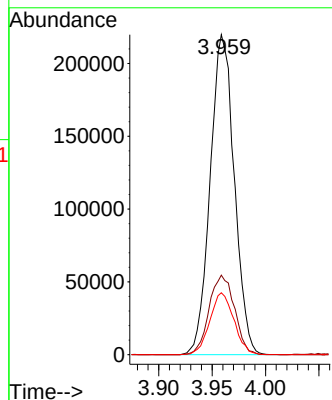
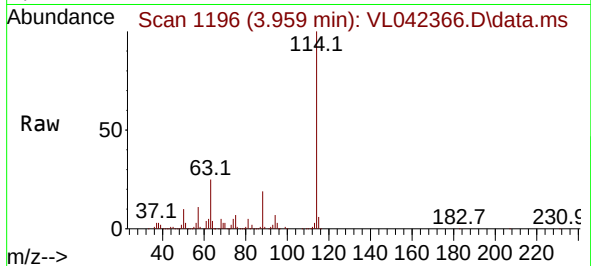




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

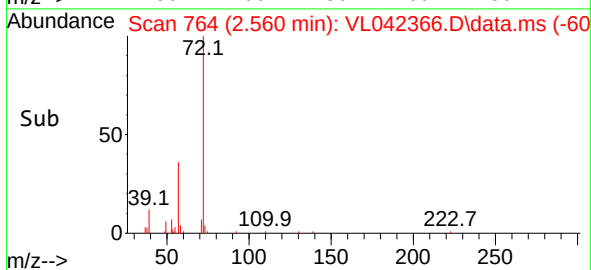
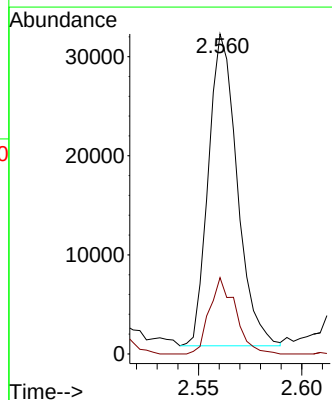
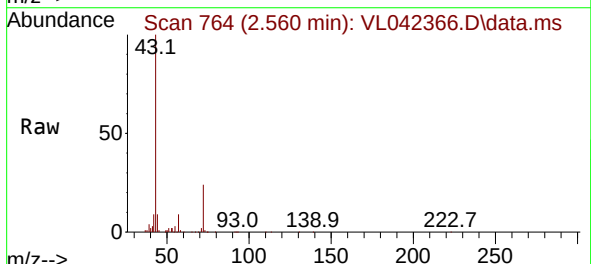
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

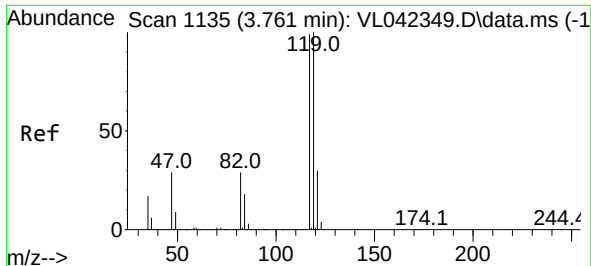
Tgt Ion:114 Resp: 344823
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.8 32.6
 88 19.3 15.5 23.3



#34
 2-Butanone
 Concen: 1.118 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 30497
 Ion Ratio Lower Upper
 43 100
 72 22.3 18.2 27.2

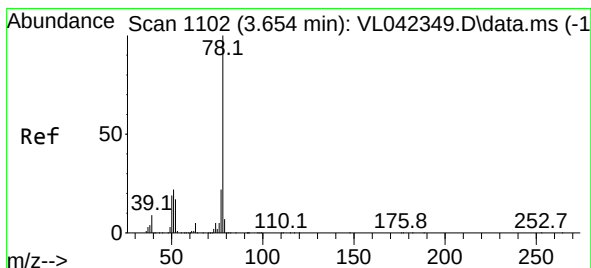
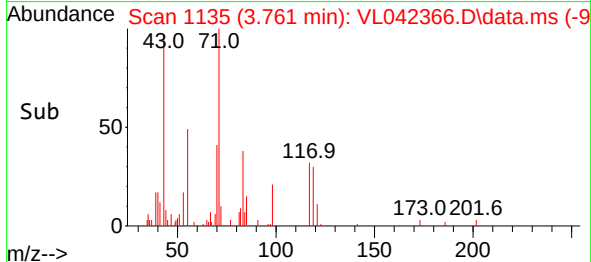
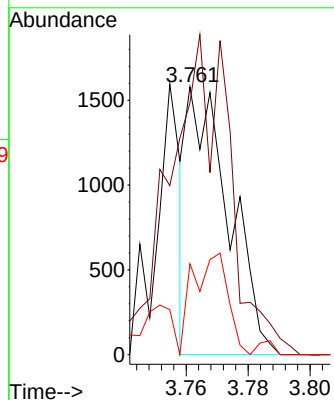
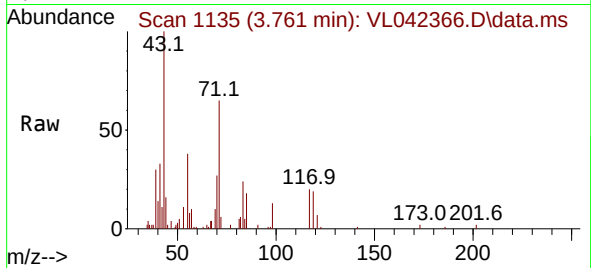




#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

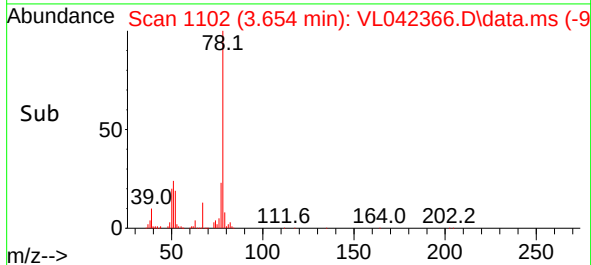
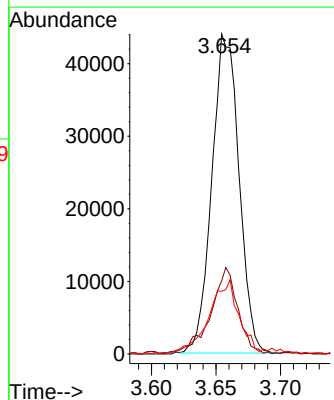
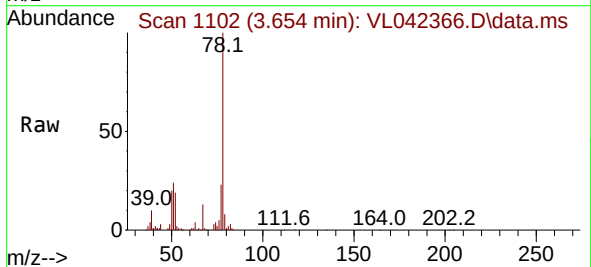
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

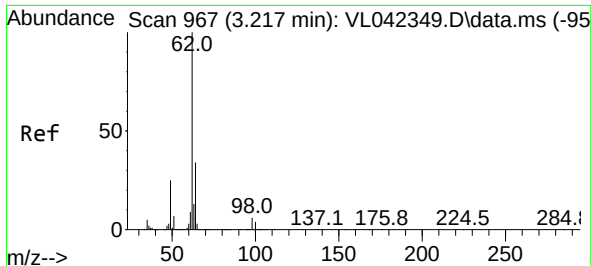
Tgt Ion:117 Resp: 1489
Ion Ratio Lower Upper
117 100
119 88.0 80.5 120.7
121 33.9 24.2 36.2



#36
Benzene
Concen: 1.727 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 78 Resp: 64219
Ion Ratio Lower Upper
78 100
77 22.7 17.4 26.0
50 18.0 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.127 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

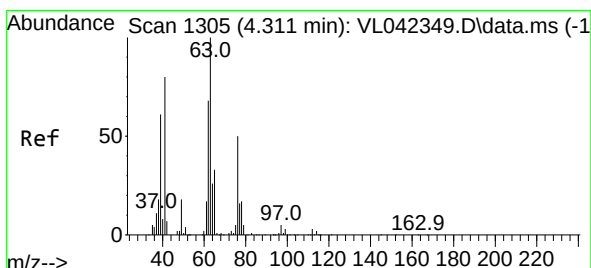
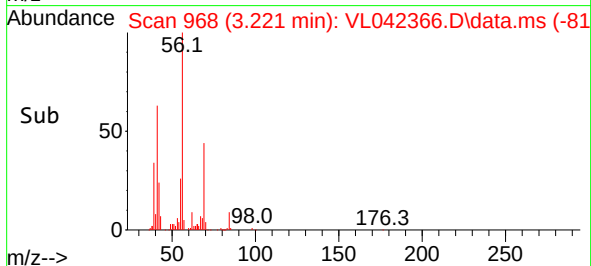
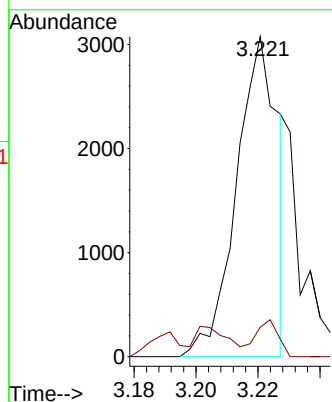
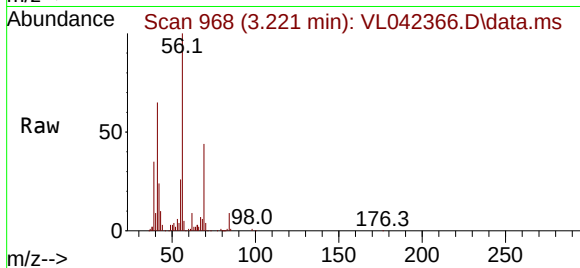
IA-DUP-3-03312025

Tgt Ion: 62 Resp: 2839

Ion Ratio Lower Upper

62 100

98 19.3 5.1 7.7#



#39

1,2-Dichloropropane

Concen: 6.513 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

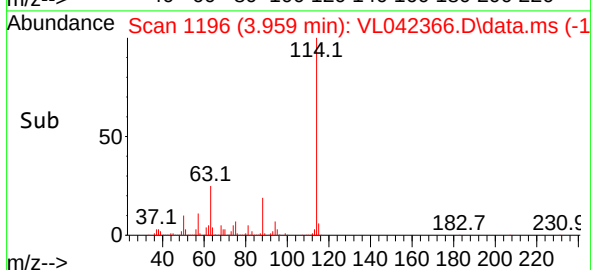
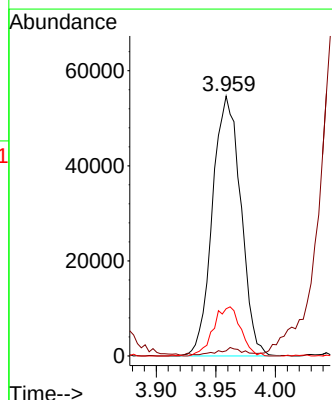
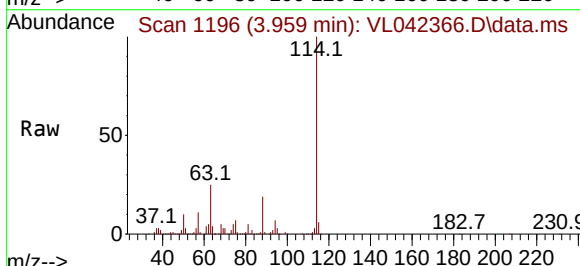
Tgt Ion: 63 Resp: 90263

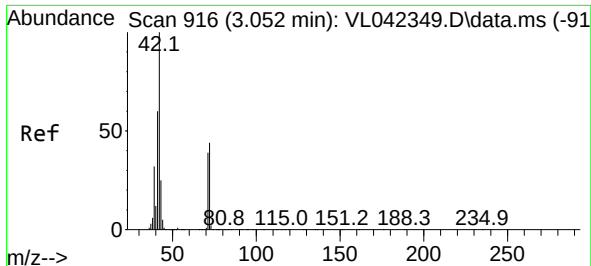
Ion Ratio Lower Upper

63 100

41 1.6 64.2 96.2#

62 18.1 54.3 81.5#

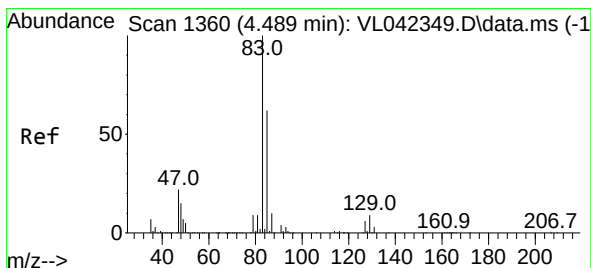
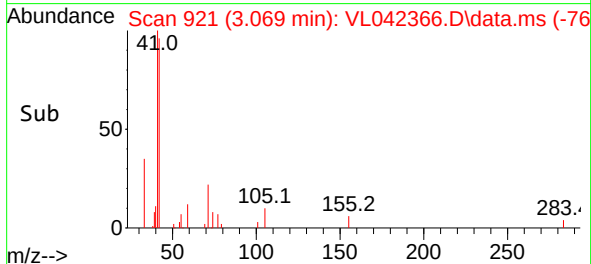
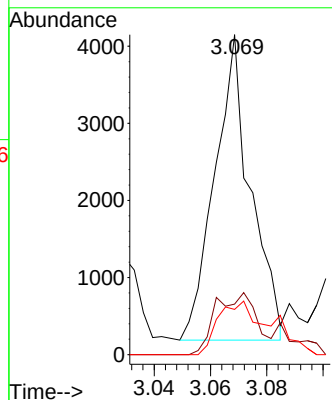
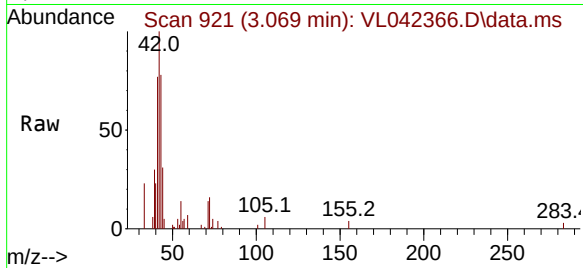




#41
Tetrahydrofuran
Concen: 0.220 ppbv
RT: 3.069 min Scan# 916
Delta R.T. 0.016 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

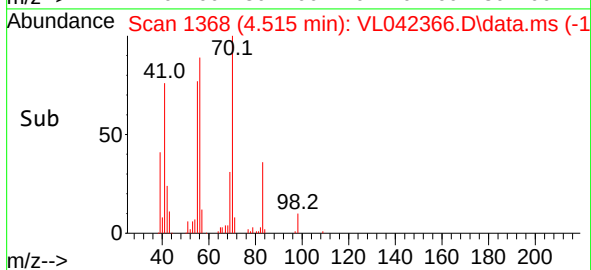
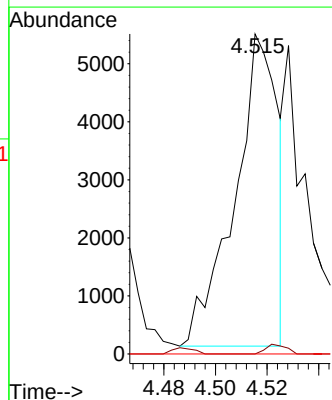
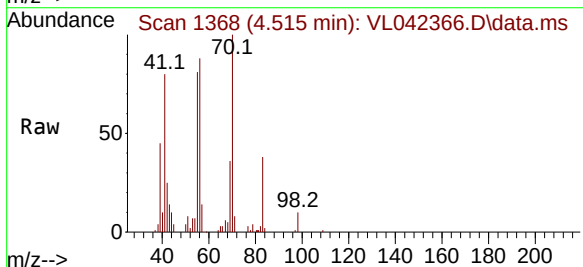
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

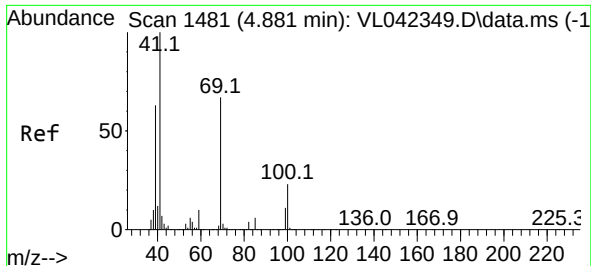
Tgt Ion: 42 Resp: 3495
Ion Ratio Lower Upper
42 100
72 29.4 32.3 48.5#
71 25.7 31.4 47.2#



#42
Bromodichloromethane
Concen: 0.200 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.026 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 83 Resp: 6225
Ion Ratio Lower Upper
83 100
85 0.0 49.7 74.5#
127 0.0 5.1 7.7#

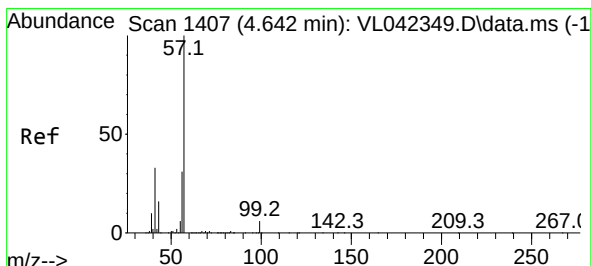
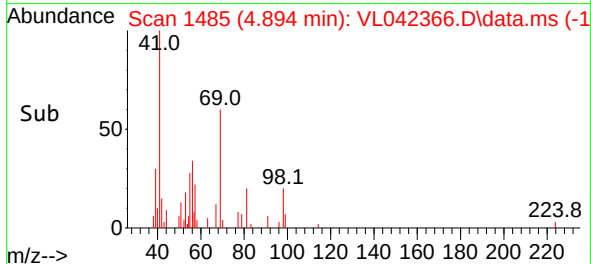
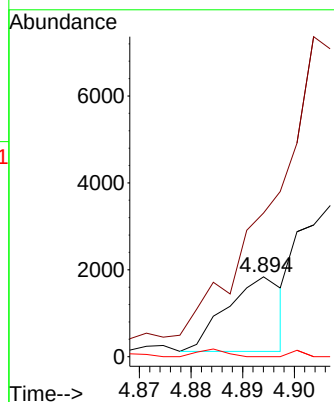
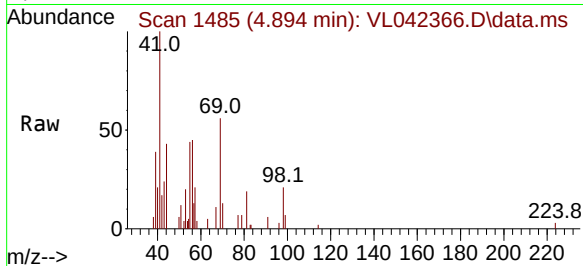




#43
Methyl Methacrylate
Concen: 0.077 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

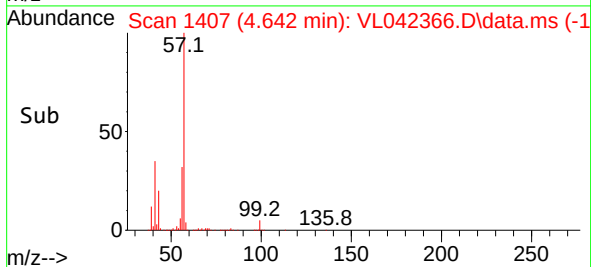
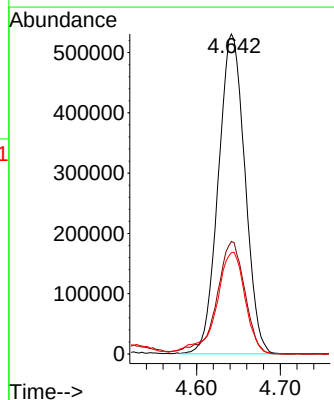
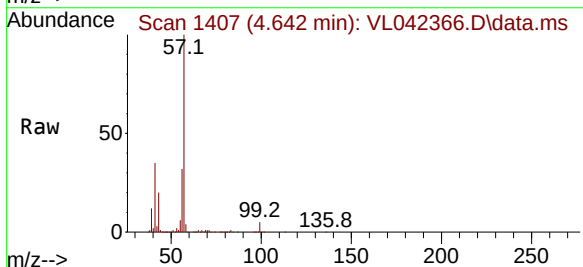
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

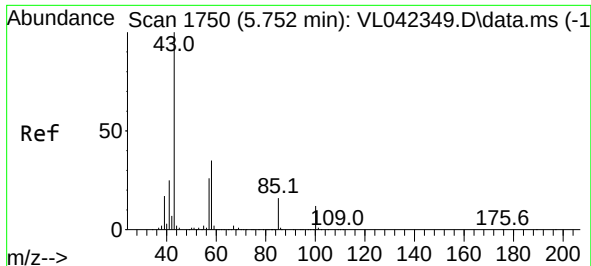
Tgt Ion: 69 Resp: 1290
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 18.168 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 57 Resp: 1167050
Ion Ratio Lower Upper
57 100
41 37.2 27.2 40.8
56 34.9 25.7 38.5





#50

4-Methyl-2-Pentanone

Concen: 0.128 ppbv

RT: 5.778 min Scan# 1

Delta R.T. 0.026 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

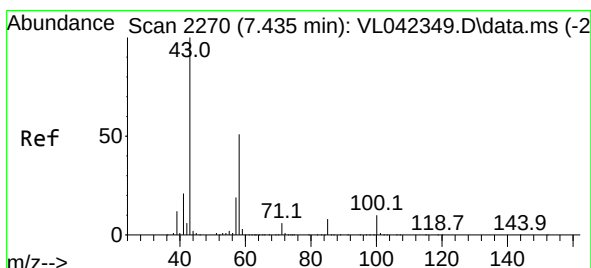
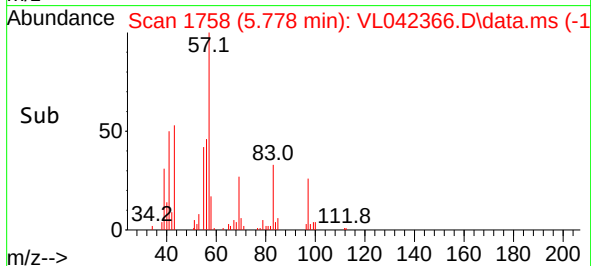
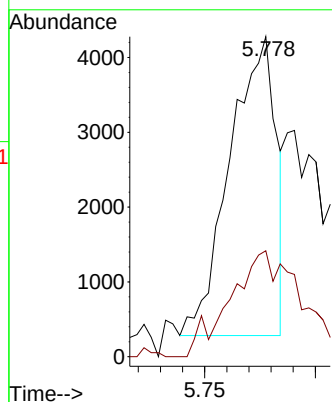
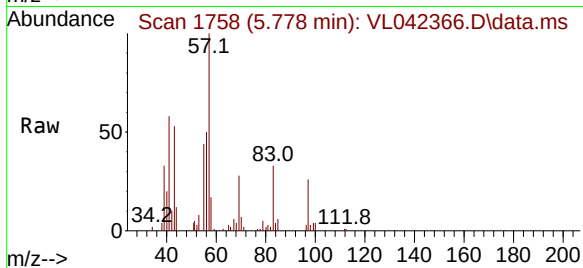
IA-DUP-3-03312025

Tgt Ion: 43 Resp: 5813

Ion Ratio Lower Upper

43 100

58 58.9 28.6 43.0#



#51

2-Hexanone

Concen: 2.057 ppbv

RT: 7.419 min Scan# 2265

Delta R.T. -0.016 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

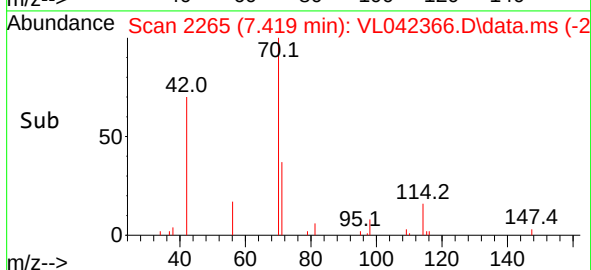
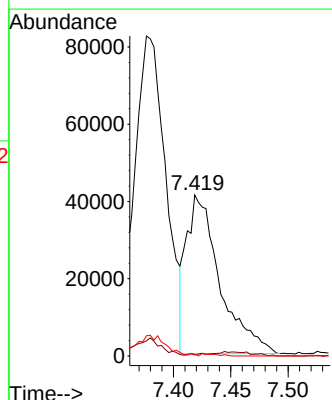
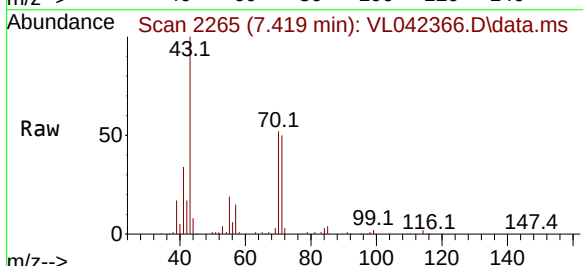
Tgt Ion: 43 Resp: 83604

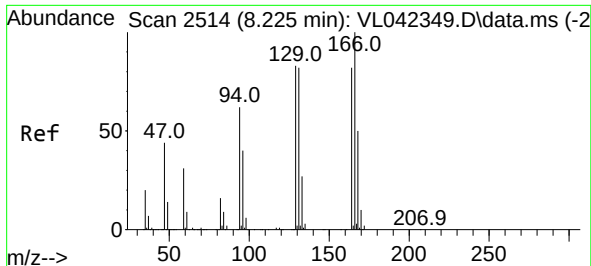
Ion Ratio Lower Upper

43 100

58 3.4 40.2 60.4#

98 0.6 0.1 0.1#

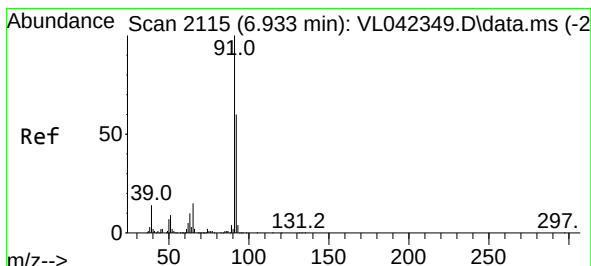
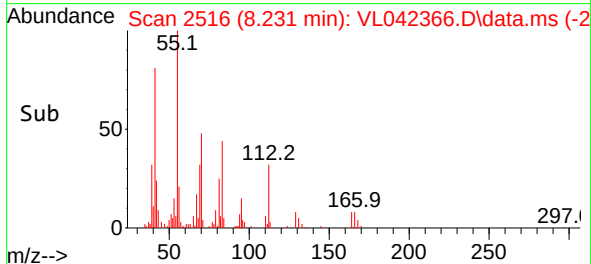
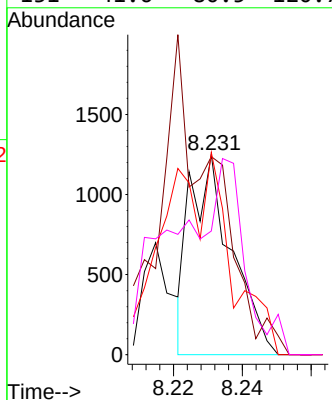
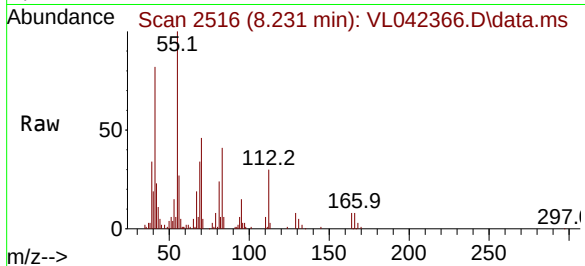




#52
Tetrachloroethene
Concen: 0.073 ppbv
RT: 8.231 min Scan# 2116
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

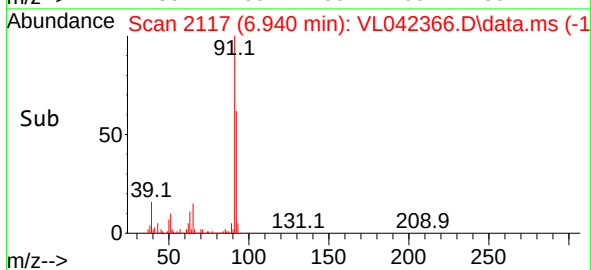
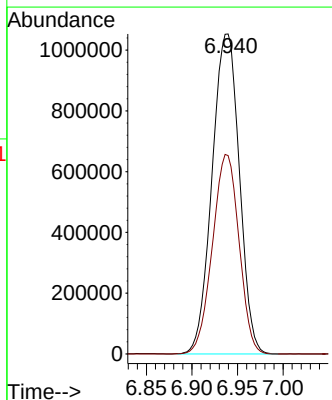
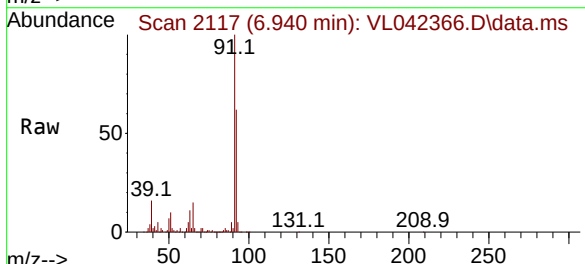
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

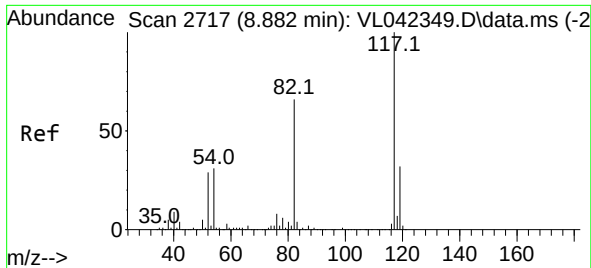
Tgt Ion:164 Resp: 1048
Ion Ratio Lower Upper
164 100
166 94.3 98.2 147.2#
129 101.0 81.8 122.8
131 41.6 80.5 120.7#



#53
Toluene
Concen: 49.165 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 2194341
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.4

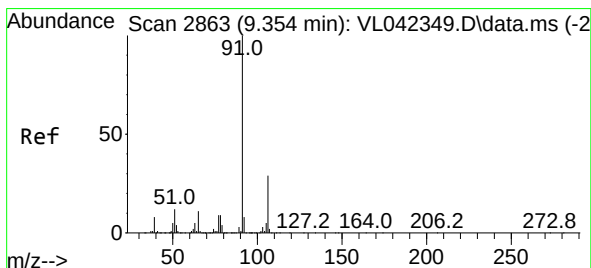
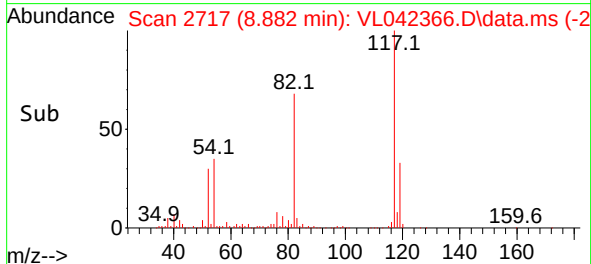
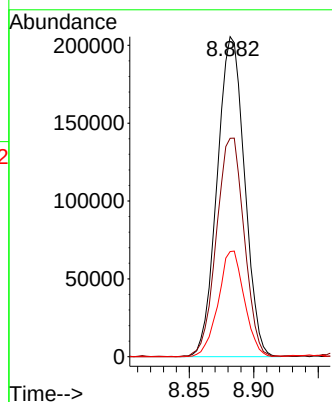
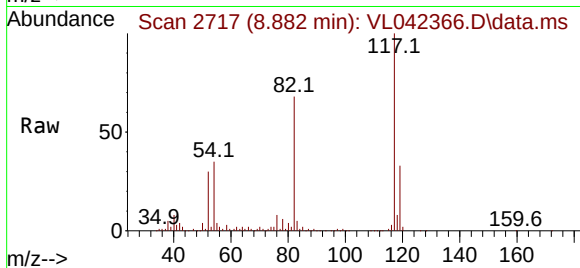




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

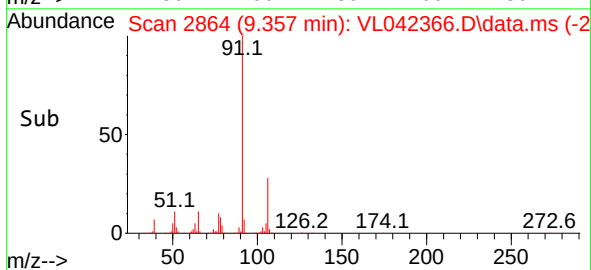
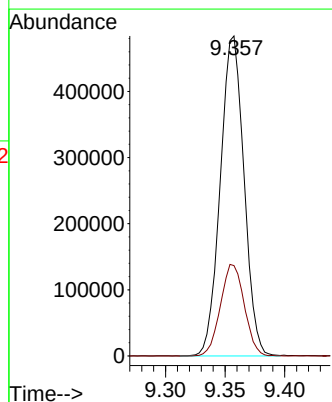
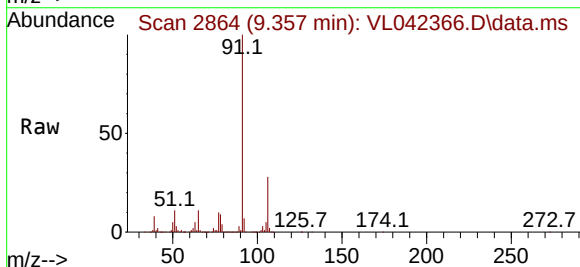
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

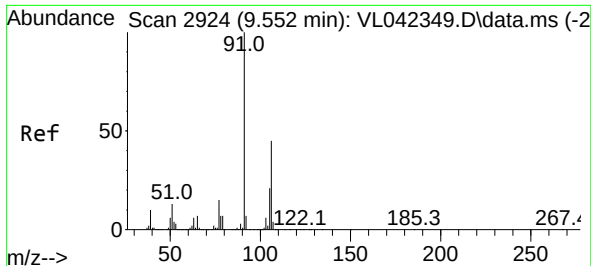
Tgt Ion:117 Resp: 303405
Ion Ratio Lower Upper
117 100
82 69.2 57.8 86.6
119 31.6 25.2 37.8



#58
Ethyl Benzene
Concen: 11.113 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 668072
Ion Ratio Lower Upper
91 100
106 28.3 23.0 34.4





#59

m/p-Xylene

Concen: 38.435 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

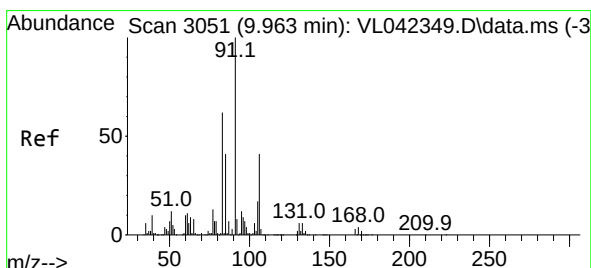
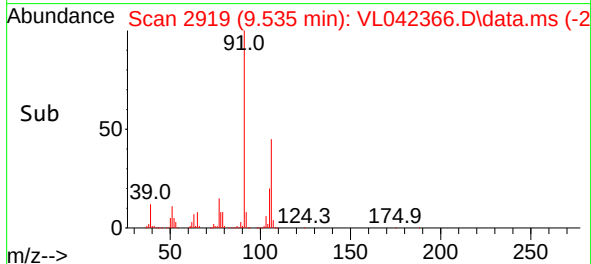
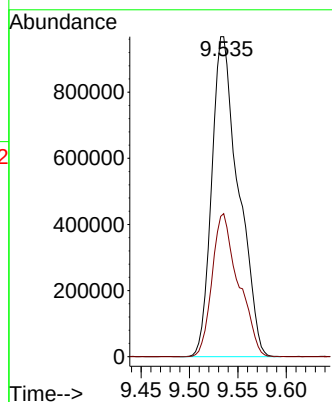
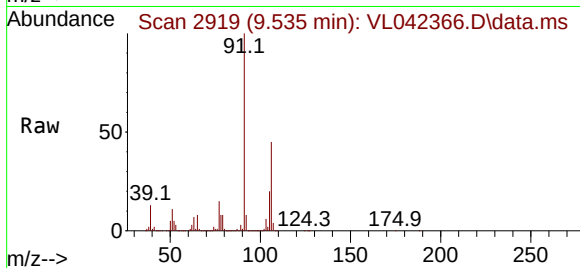
IA-DUP-3-03312025

Tgt Ion: 91 Resp: 1861243

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 15.456 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042366.D

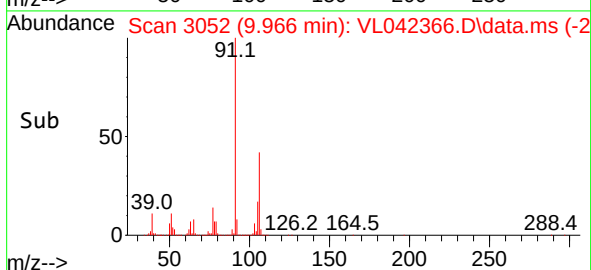
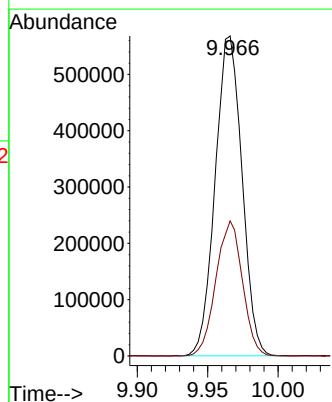
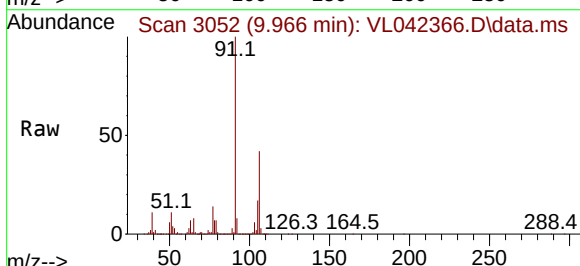
Acq: 17 Apr 2025 20:05

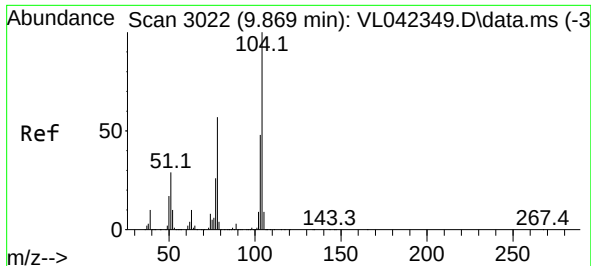
Tgt Ion: 91 Resp: 753743

Ion Ratio Lower Upper

91 100

106 41.7 21.1 63.4





#61

Styrene

Concen: 0.351 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

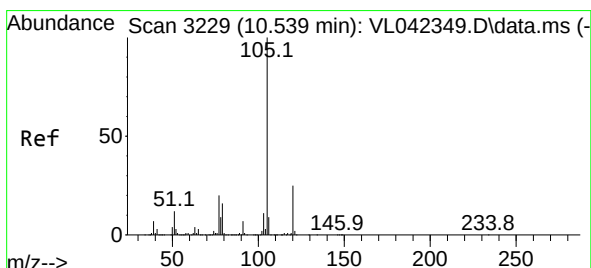
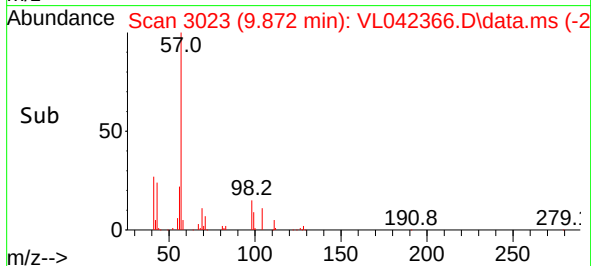
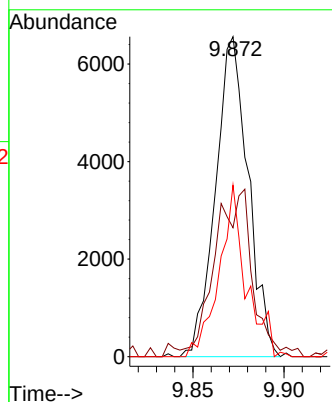
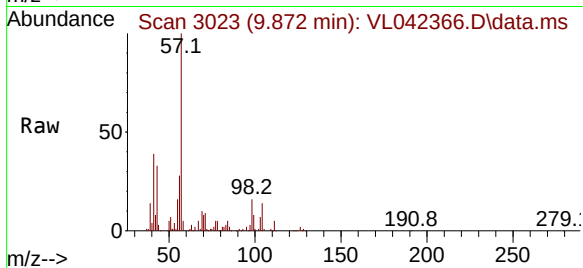
Tgt Ion:104 Resp: 8179

Ion Ratio Lower Upper

104 100

78 64.5 44.6 66.8

103 44.3 37.4 56.0



#62

Isopropylbenzene

Concen: 0.987 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042366.D

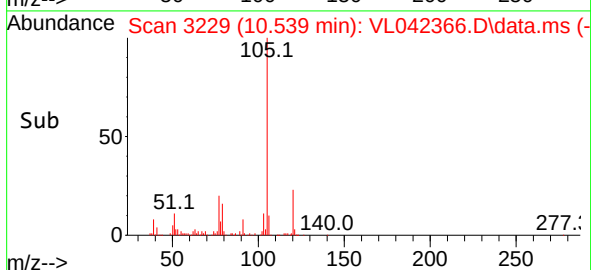
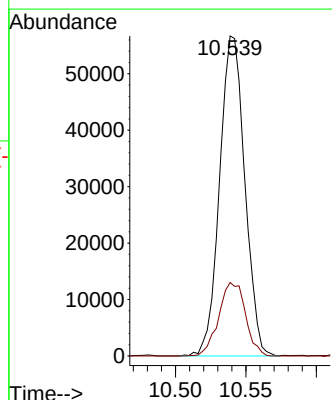
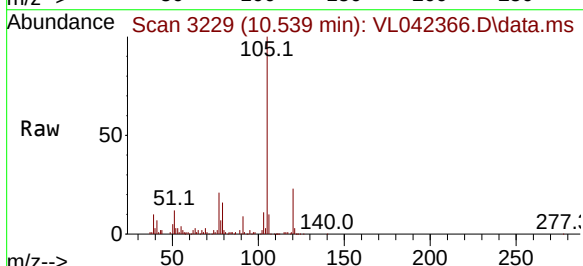
Acq: 17 Apr 2025 20:05

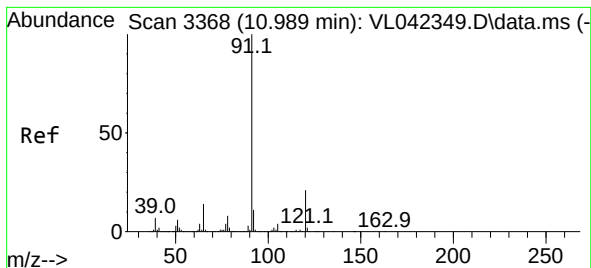
Tgt Ion:105 Resp: 70653

Ion Ratio Lower Upper

105 100

120 24.4 19.8 29.8





#64

n-propylbenzene

Concen: 3.324 ppbv

RT: 10.992 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

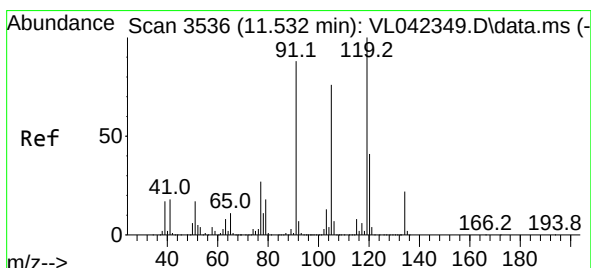
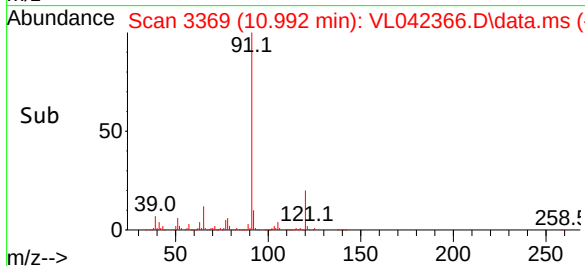
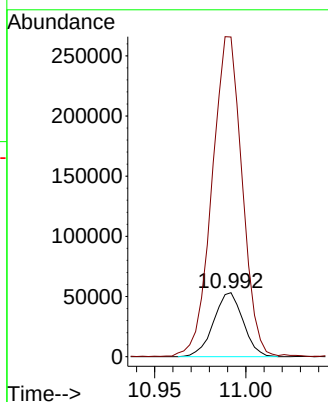
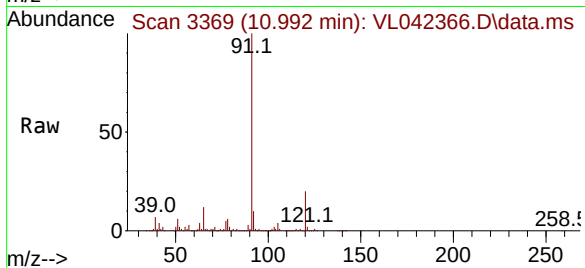
IA-DUP-3-03312025

Tgt Ion:120 Resp: 59824

Ion Ratio Lower Upper

120 100

91 511.6 392.4 588.6



#65

tert-Butylbenzene

Concen: 1.999 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.006 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

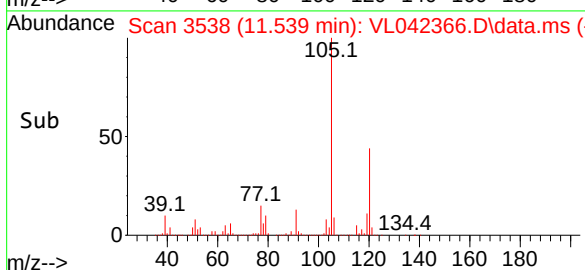
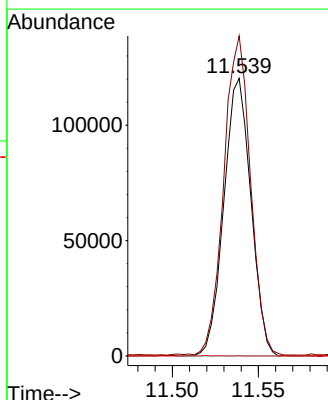
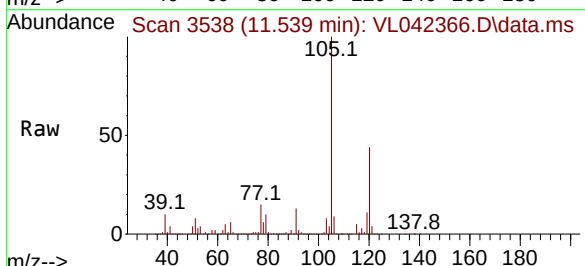
Tgt Ion:119 Resp: 131539

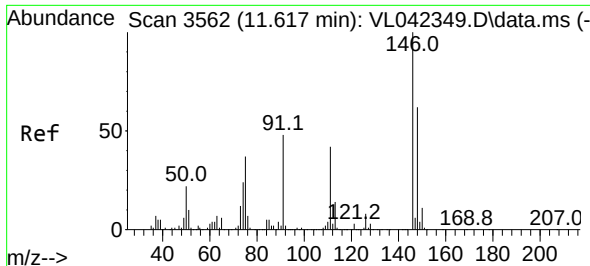
Ion Ratio Lower Upper

119 100

91 114.4 74.6 111.8#

134 0.0 18.8 28.2#

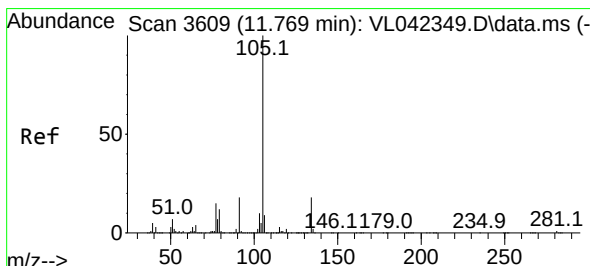
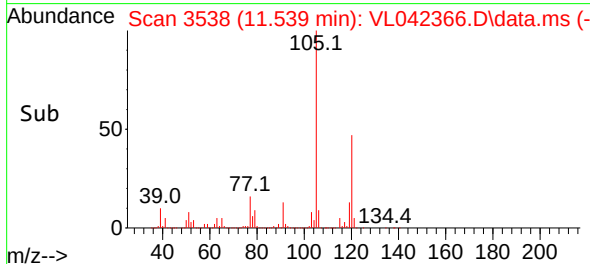
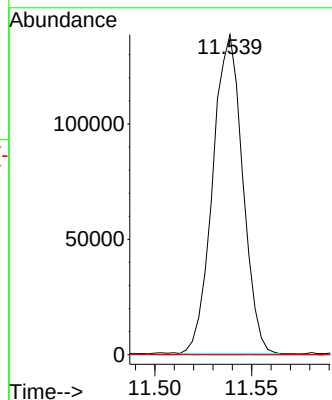
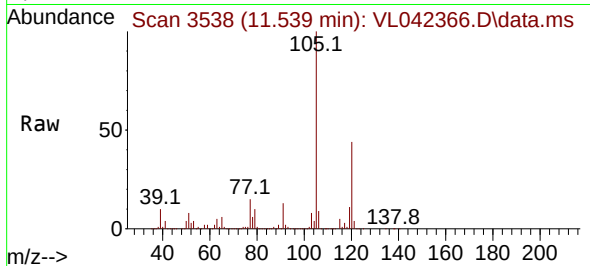




#66
Benzyl Chloride
Concen: 20.553 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.078 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

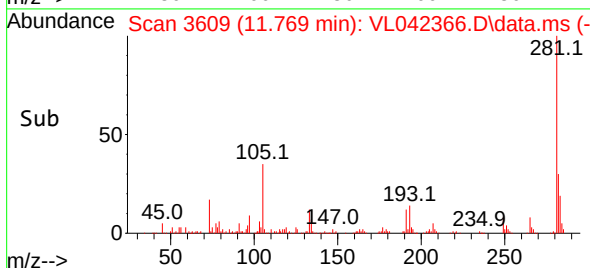
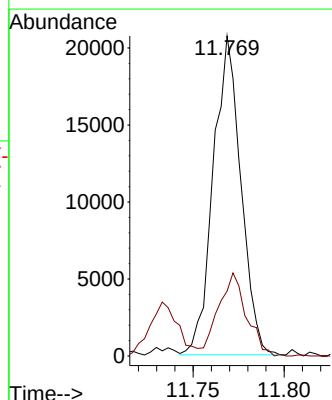
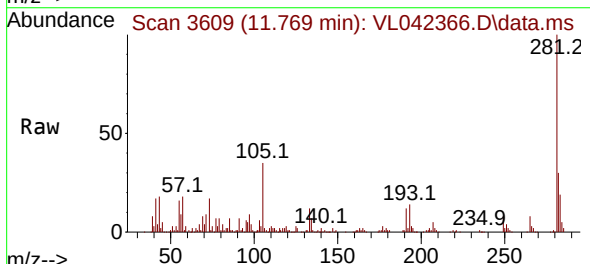
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

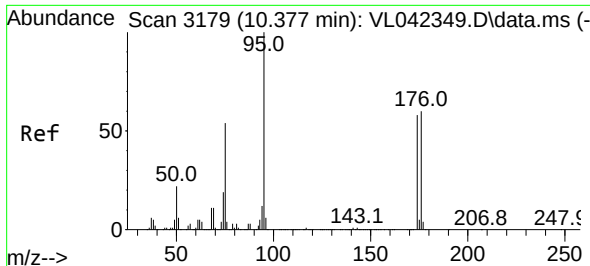
Tgt Ion: 91 Resp: 148615
Ion Ratio Lower Upper
91 100
126 0.1 11.8 17.6#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 105 Resp: 21870
Ion Ratio Lower Upper
105 100
134 26.0 14.6 21.8#

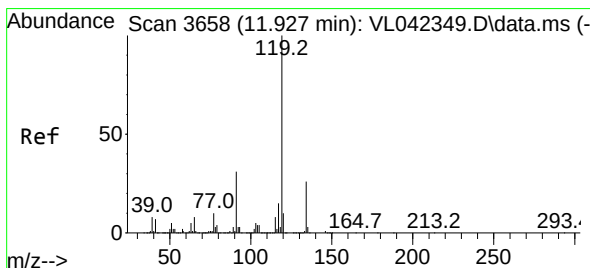
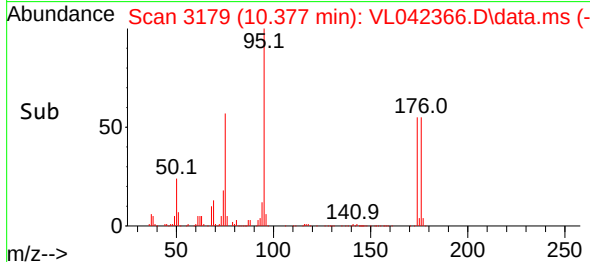
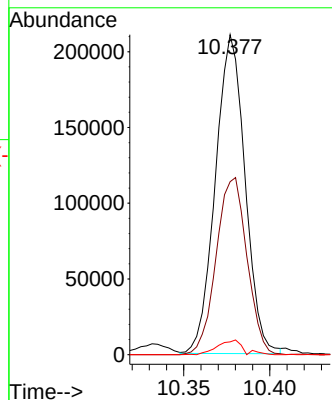
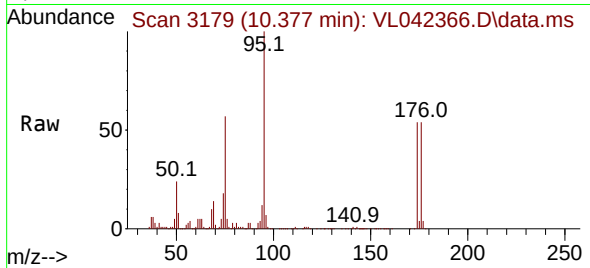




#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

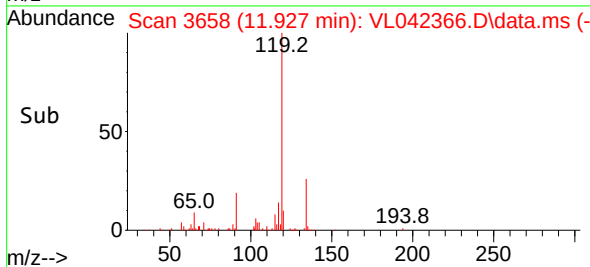
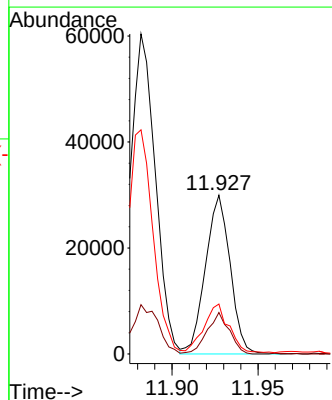
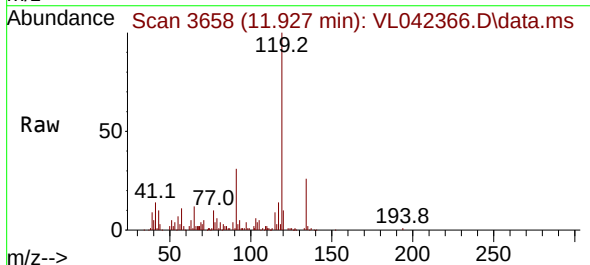
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

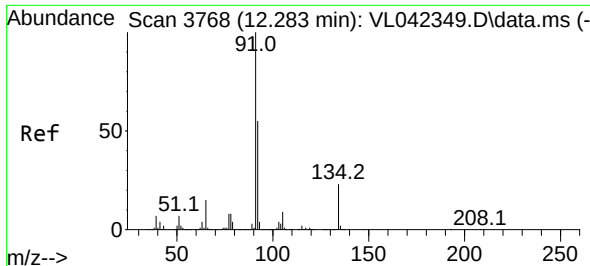
Tgt Ion: 95 Resp: 252701
Ion Ratio Lower Upper
95 100
174 57.6 48.5 72.7
175 4.0 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.377 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 119 Resp: 29958
Ion Ratio Lower Upper
119 100
134 23.7 20.0 30.0
91 29.2 24.4 36.6





#70

n-Butylbenzene

Concen: 0.812 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

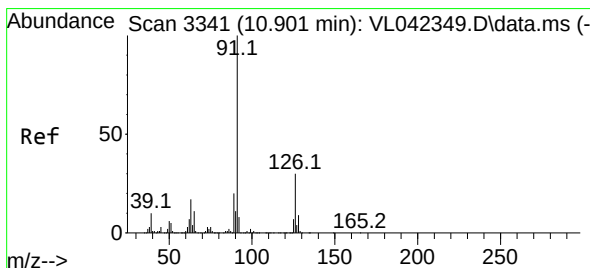
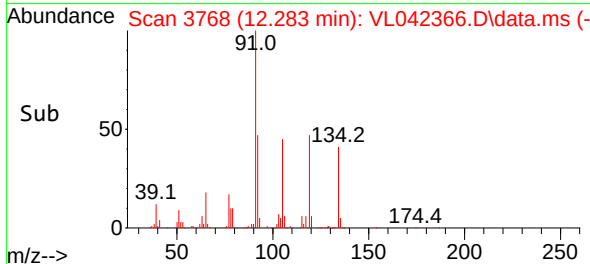
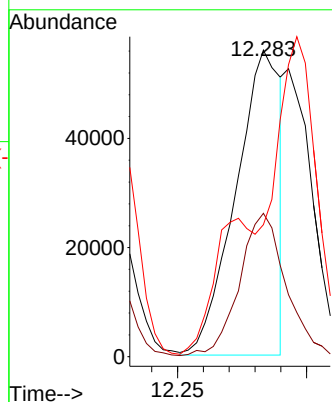
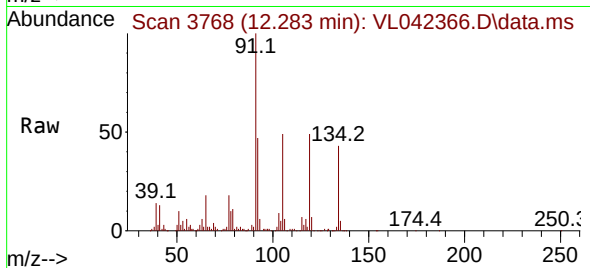
Tgt Ion: 91 Resp: 67288

Ion Ratio Lower Upper

91 100

92 50.3 44.2 66.4

134 0.0 18.2 27.4#



#71

2-Chlorotoluene

Concen: 0.958 ppbv

RT: 10.901 min Scan# 3341

Delta R.T. 0.000 min

Lab File: VL042366.D

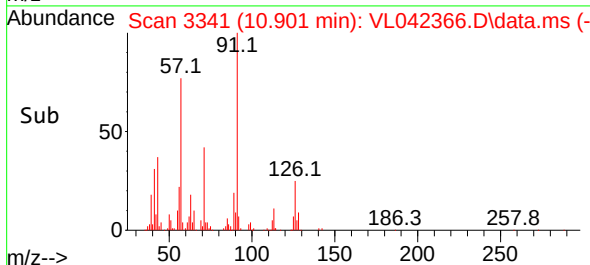
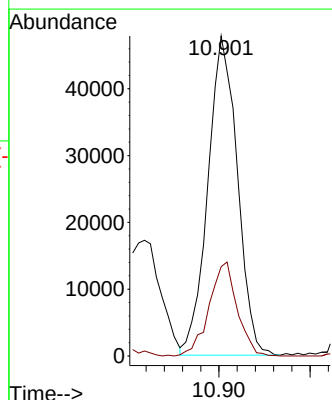
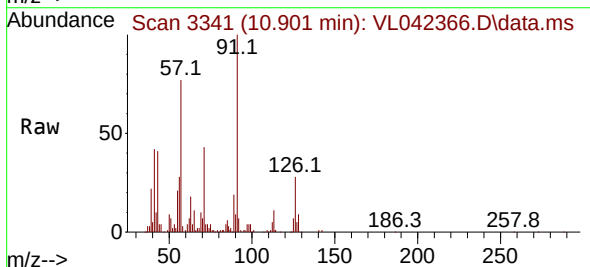
Acq: 17 Apr 2025 20:05

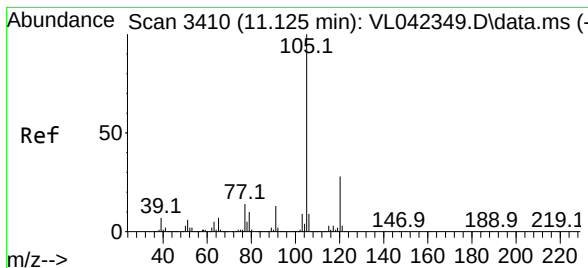
Tgt Ion: 91 Resp: 53769

Ion Ratio Lower Upper

91 100

126 28.0 11.4 45.4





#72

4-Ethyltoluene

Concen: 5.685 ppbv

RT: 11.128 min Scan# 3410

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

IA-DUP-3-03312025

Tgt Ion:105 Resp: 338919

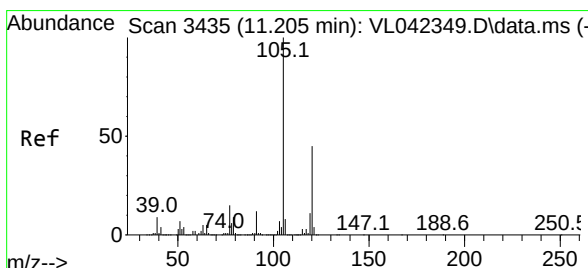
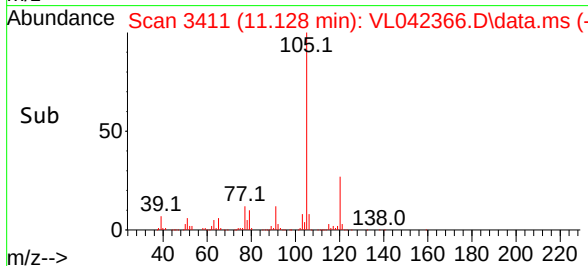
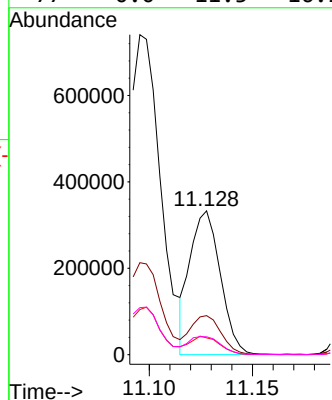
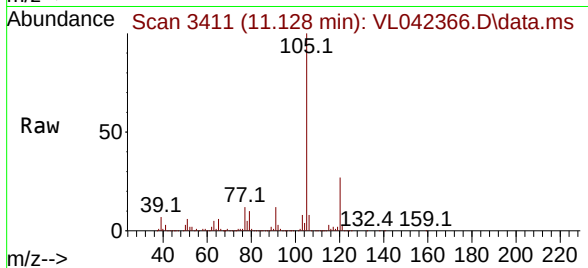
Ion Ratio Lower Upper

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: 7.008 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042366.D

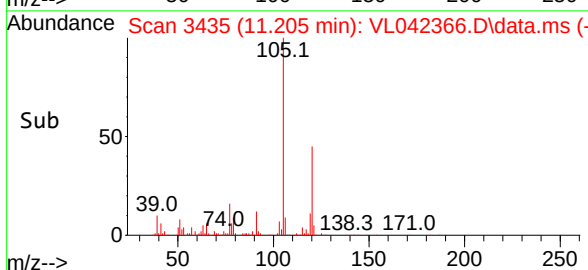
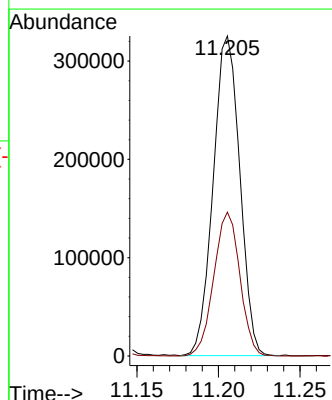
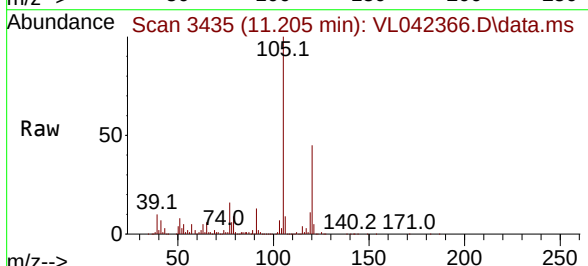
Acq: 17 Apr 2025 20:05

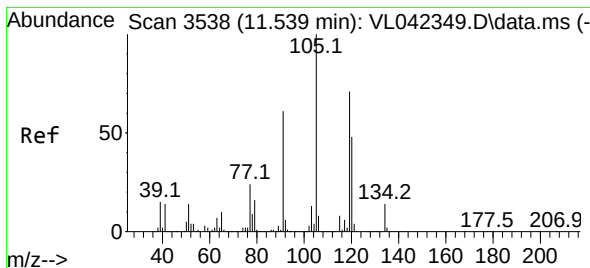
Tgt Ion:105 Resp: 368859

Ion Ratio Lower Upper

105 100

120 45.0 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 19.268 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

IA-DUP-3-03312025

Tgt Ion:105 Resp: 1184512

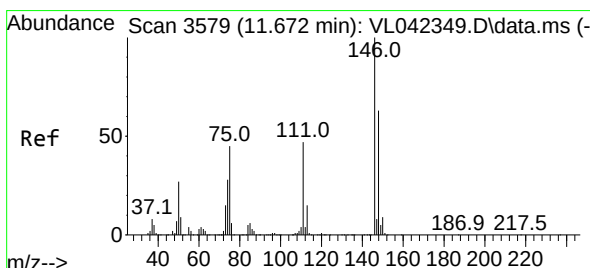
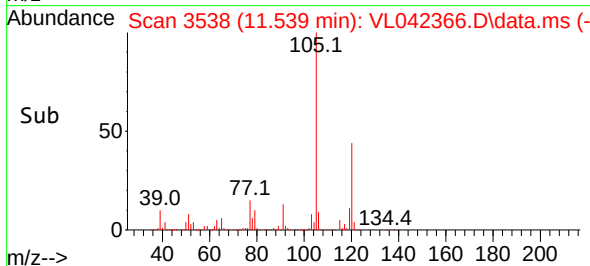
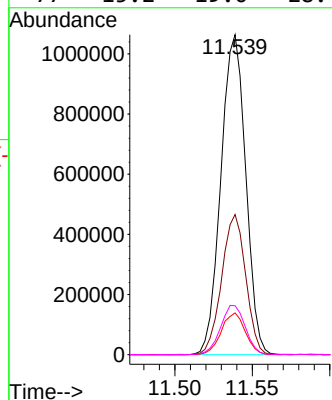
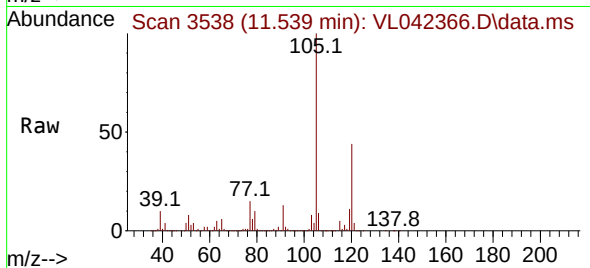
Ion Ratio Lower Upper

105 100

120 43.8 38.1 57.1

91 13.0 48.8 73.2#

77 15.2 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.257 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

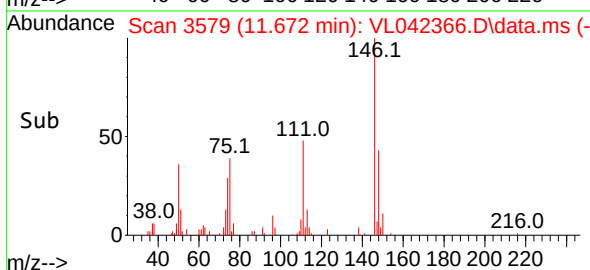
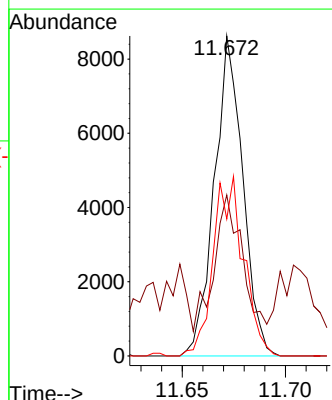
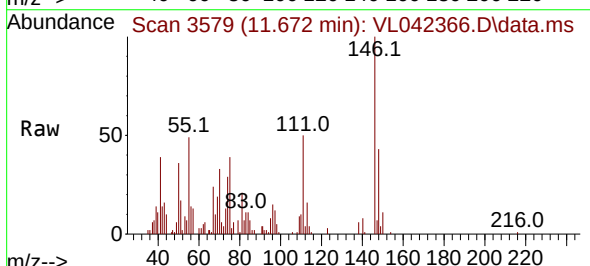
Tgt Ion:146 Resp: 8250

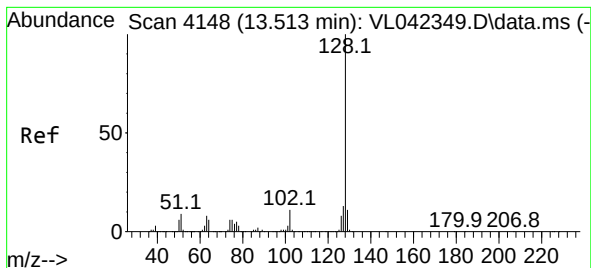
Ion Ratio Lower Upper

146 100

111 144.4 24.2 72.6#

148 59.7 32.1 96.5





#79

Naphthalene

Concen: 2.334 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

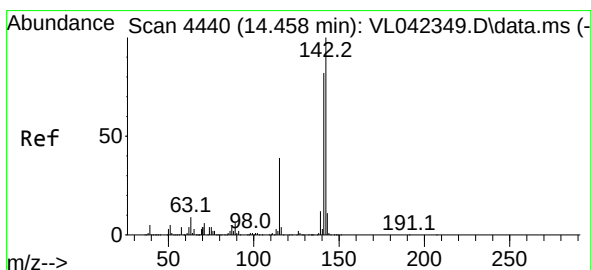
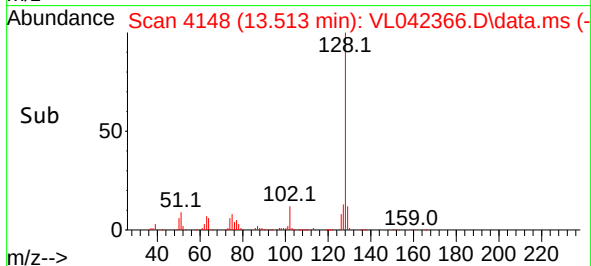
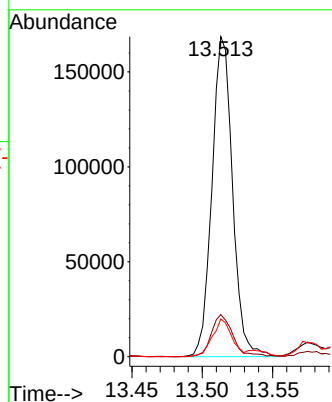
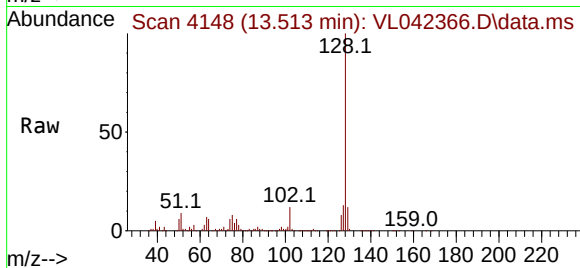
Tgt Ion:128 Resp: 171574

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 11.8 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 0.549 ppbv

RT: 14.588 min Scan# 4480

Delta R.T. 0.129 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Tgt Ion:142 Resp: 23011

Ion Ratio Lower Upper

142 100

141 96.1 66.8 100.2

115 49.2 33.4 50.2

