

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
 Data File : VL041327.D
 Acq On : 5 Jun 2024 14:50
 Operator : SY/MD
 Sample : P2716-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jun 06 04:39:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 05 04:42:10 2024
 Response via : Initial Calibration

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

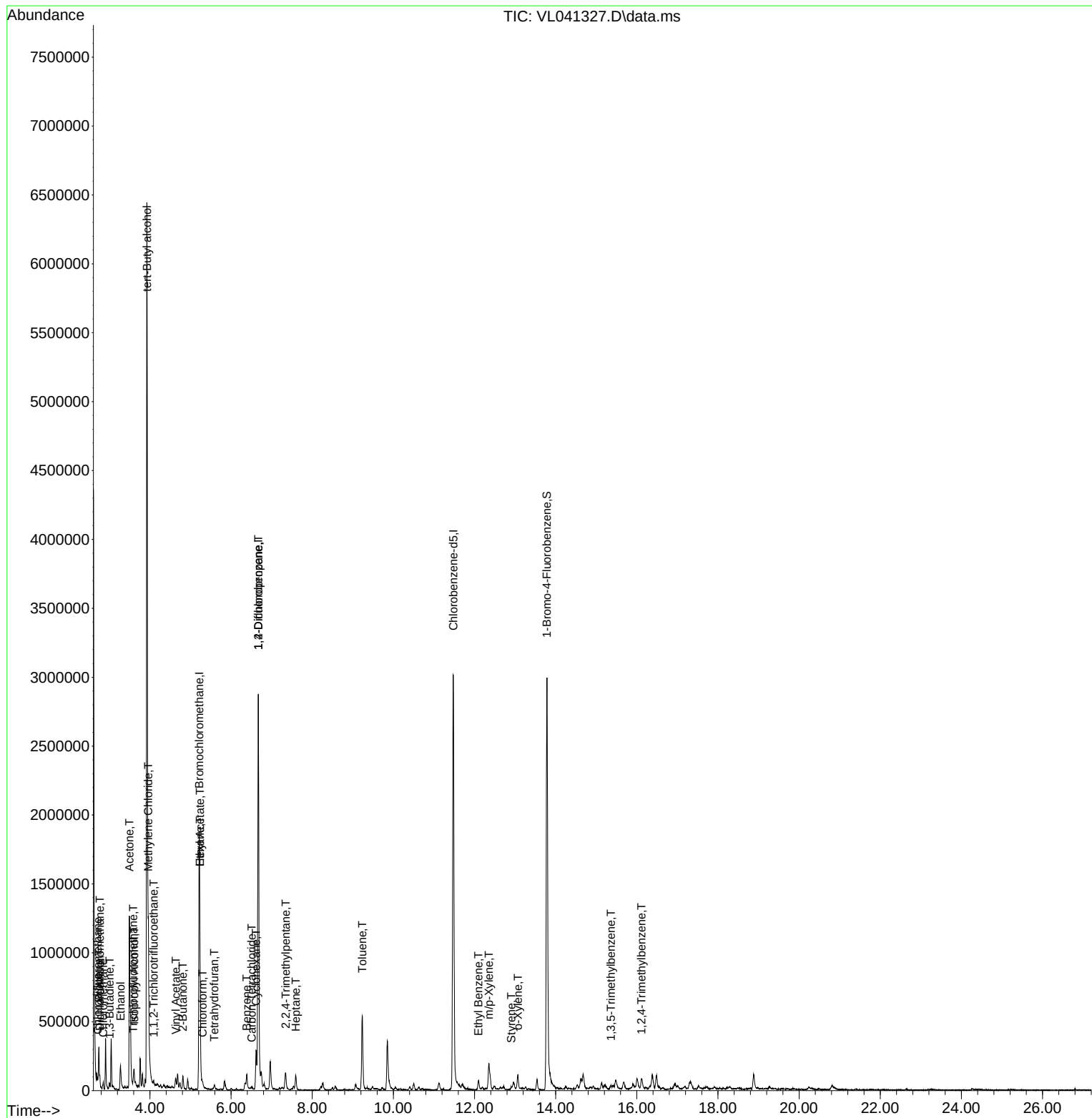
Internal Standards						
1) Bromochloromethane	5.214	49	802536	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2122089	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.478	117	1983419	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1526553	9.968	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.764	85	43588	0.340	ppbv	99
3) Chlorodifluoromethane	2.710	51	100506	0.792	ppbv #	81
4) Chloromethane	2.848	50	35639	0.747	ppbv	96
9) Propene	2.742	41	75916	1.681	ppbv #	78
10) Heptane	7.594	43	46989	0.439	ppbv	99
11) Trichlorofluoromethane	3.587	101	29275	0.248	ppbv	84
12) 1,1,2-Trichlorotrifluo...	4.095	101	2706	0.033	ppbv #	1
13) Ethanol	3.276	45	180378	15.348	ppbv	86
15) Acetone	3.494	43	1330897	14.525	ppbv	99
16) 1,3-Butadiene	3.005	39	13999	0.304	ppbv #	60
17) tert-Butyl alcohol	3.928	59	609750	7.228	ppbv #	78
19) Isopropyl Alcohol	3.610	45	109154	1.896	ppbv #	95
20) Methylene Chloride	3.960	84	191668	5.755	ppbv	95
23) Vinyl Acetate	4.639	43	27062	0.289	ppbv #	27
25) Ethyl Acetate	5.230	43	205155	1.132	ppbv #	89
26) Hexane	5.230	57	219997	2.699	ppbv #	47
29) Chloroform	5.295	83	9394	0.075	ppbv	87
30) Cyclohexane	6.616	84	85902	1.300	ppbv	91
34) 2-Butanone	4.812	43	109728	1.079	ppbv	98
35) Carbon Tetrachloride	6.507	117	3744	0.031	ppbv #	90
36) Benzene	6.385	78	71599	0.435	ppbv #	92
39) 1,2-Dichloropropane	6.671	63	522136	7.972	ppbv #	25
41) Tetrahydrofuran	5.584	42	5516	0.083	ppbv #	37
44) 2,2,4-Trimethylpentane	7.346	57	46476	0.164	ppbv #	1
53) Toluene	9.237	91	385434	2.037	ppbv	100
58) Ethyl Benzene	12.098	91	58302	0.229	ppbv #	80
59) m/p-Xylene	12.356	91	192960	0.886	ppbv	97
60) o-Xylene	13.069	91	79982	0.385	ppbv	98
61) Styrene	12.905	104	4247	0.042	ppbv #	33
73) 1,3,5-Trimethylbenzene	15.362	105	7525	0.036	ppbv	99
74) 1,2,4-Trimethylbenzene	16.117	105	27689	0.117	ppbv #	74

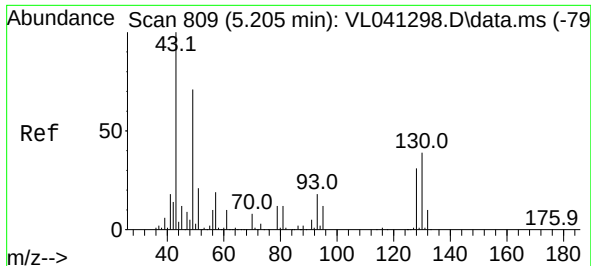
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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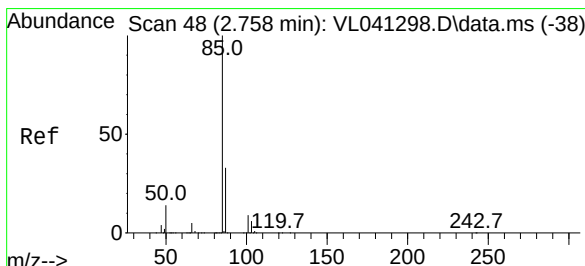
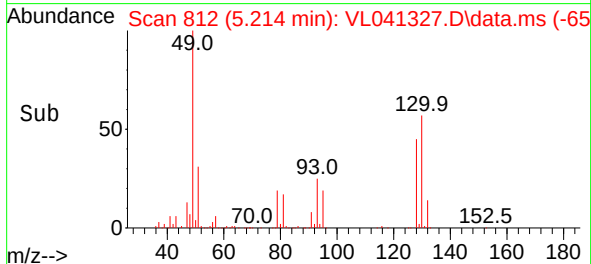
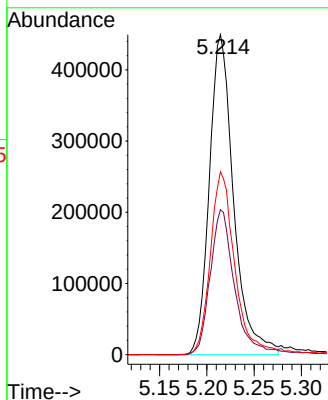
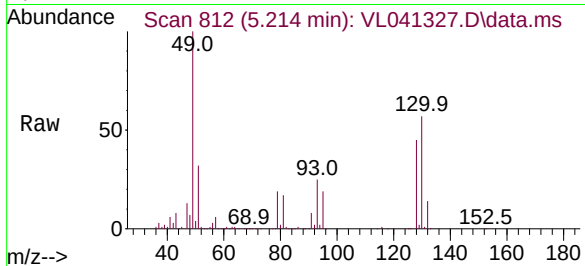




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL041327.D
Acq: 5 Jun 2024 14:50

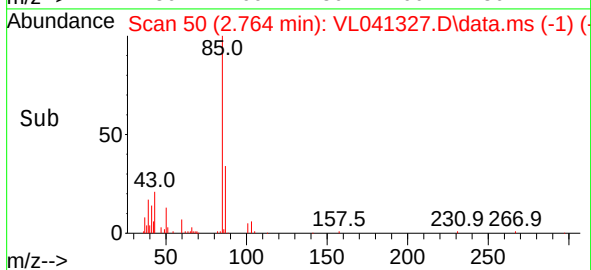
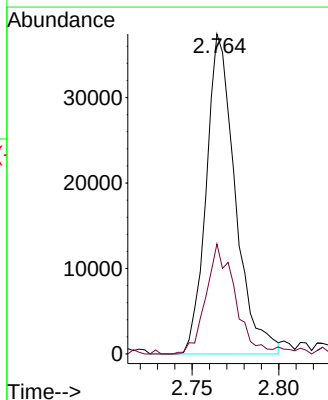
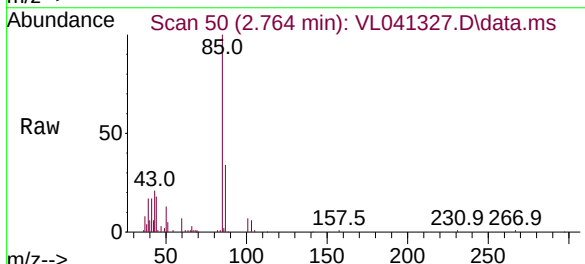
Instrument :
MSVOA_L
ClientSampleId :
IA1

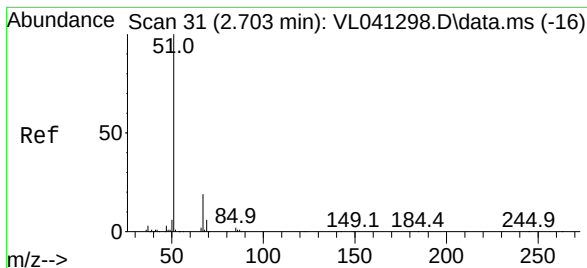
Tgt Ion: 49 Resp: 802536
Ion Ratio Lower Upper
49 100
128 46.3 22.8 68.3
130 59.0 28.4 85.3



#2
Dichlorodifluoromethane
Concen: 0.340 ppbv
RT: 2.764 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL041327.D
Acq: 5 Jun 2024 14:50

Tgt Ion: 85 Resp: 43588
Ion Ratio Lower Upper
85 100
87 33.9 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.792 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

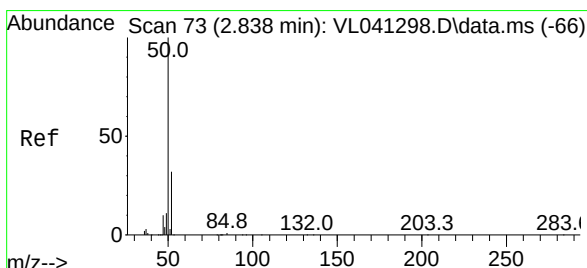
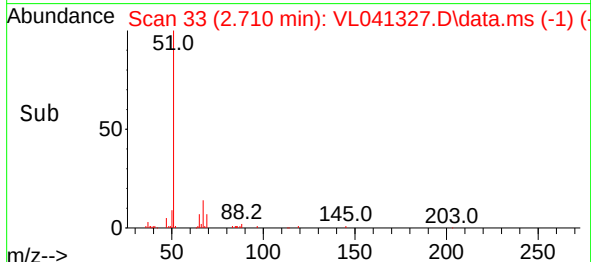
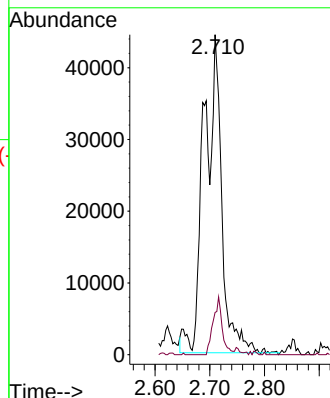
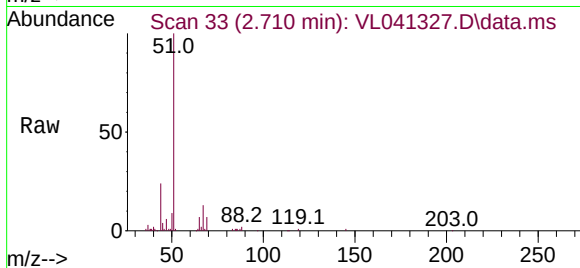
IA1

Tgt Ion: 51 Resp: 100506

Ion Ratio Lower Upper

51 100

67 9.9 14.7 22.1#



#4

Chloromethane

Concen: 0.747 ppbv

RT: 2.848 min Scan# 76

Delta R.T. 0.010 min

Lab File: VL041327.D

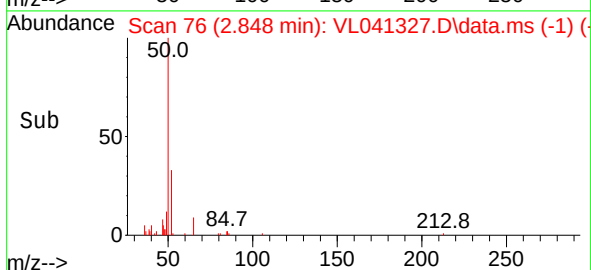
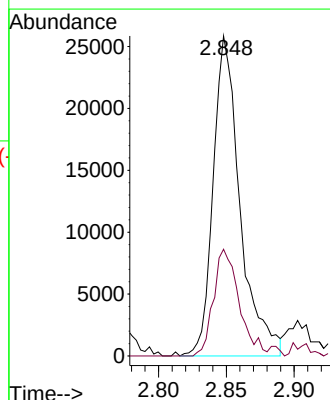
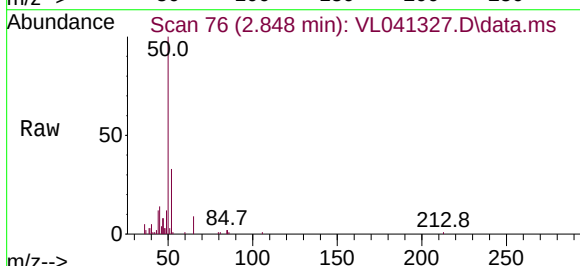
Acq: 5 Jun 2024 14:50

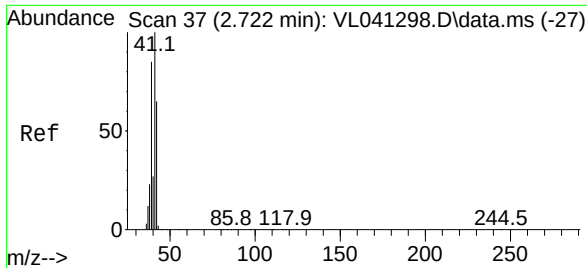
Tgt Ion: 50 Resp: 35639

Ion Ratio Lower Upper

50 100

52 34.5 25.6 38.4

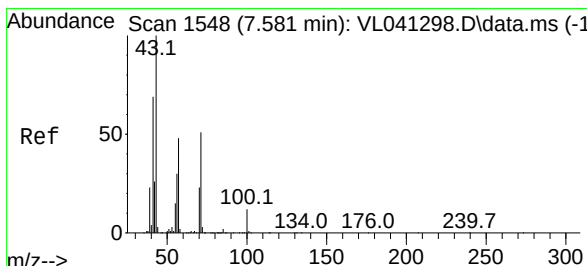
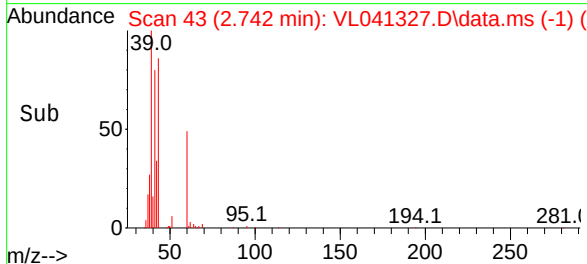
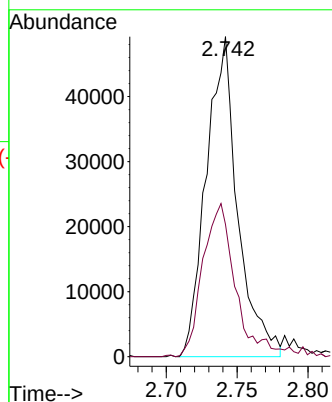
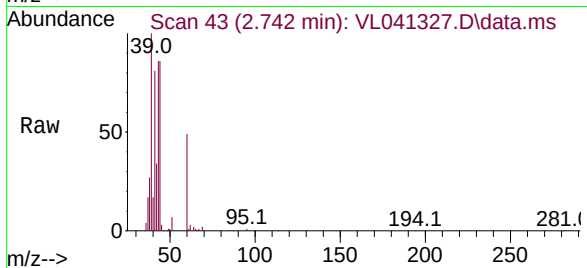




#9
 Propene
 Concen: 1.681 ppbv
 RT: 2.742 min Scan# 41
 Delta R.T. 0.019 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

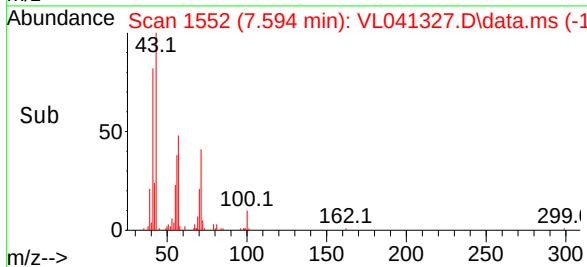
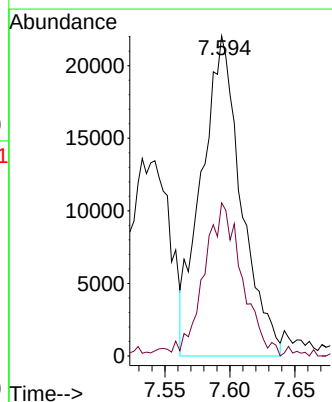
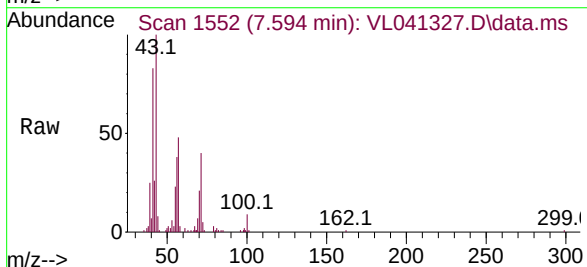
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

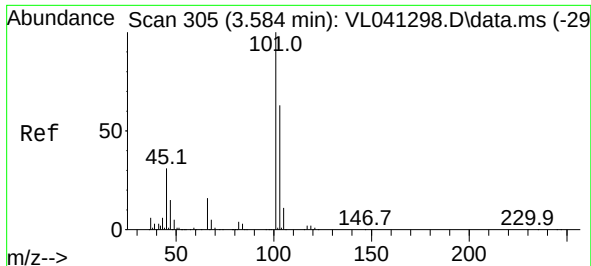
Tgt Ion: 41 Resp: 75916
 Ion Ratio Lower Upper
 41 100
 42 51.4 55.2 82.8#



#10
 Heptane
 Concen: 0.439 ppbv
 RT: 7.594 min Scan# 1552
 Delta R.T. 0.013 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

Tgt Ion: 43 Resp: 46989
 Ion Ratio Lower Upper
 43 100
 57 48.0 39.0 58.4

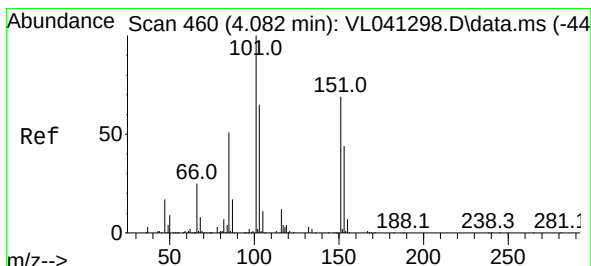
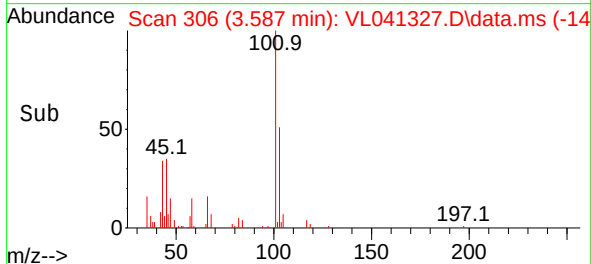
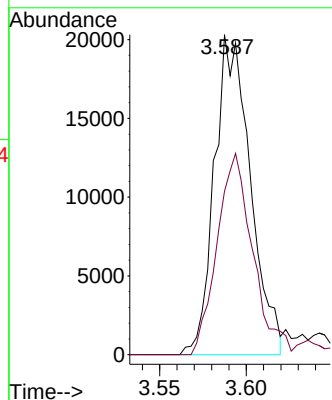
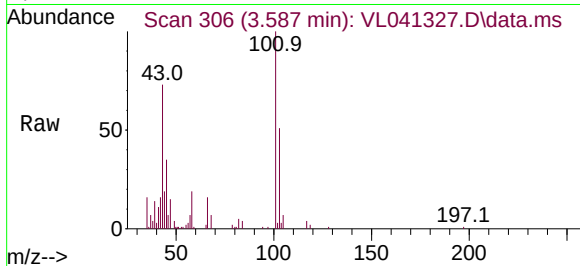




#11
 Trichlorofluoromethane
 Concen: 0.248 ppbv
 RT: 3.587 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

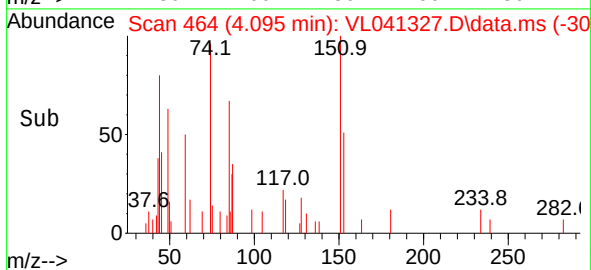
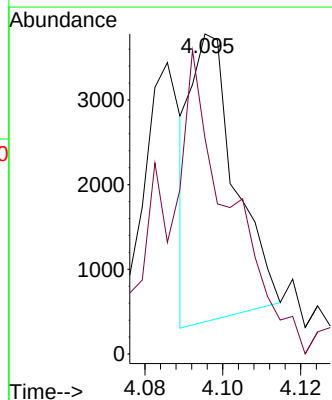
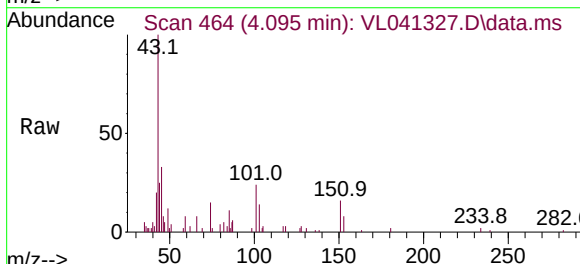
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

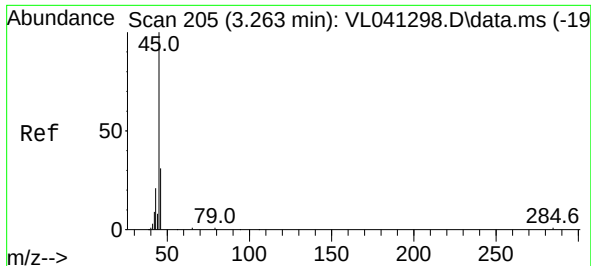
Tgt Ion:101 Resp: 29275
 Ion Ratio Lower Upper
 101 100
 103 51.1 50.6 76.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.033 ppbv
 RT: 4.095 min Scan# 464
 Delta R.T. 0.013 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

Tgt Ion:101 Resp: 2706
 Ion Ratio Lower Upper
 101 100
 151 166.8 54.8 82.2#





#13

Ethanol

Concen: 15.348 ppbv

RT: 3.276 min Scan# 205

Delta R.T. 0.013 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

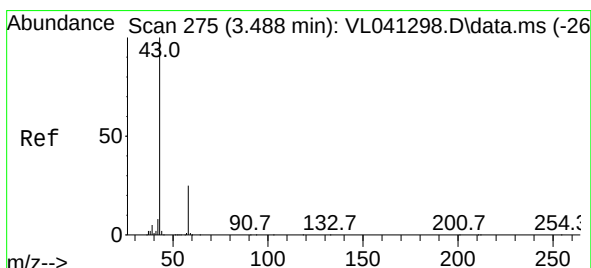
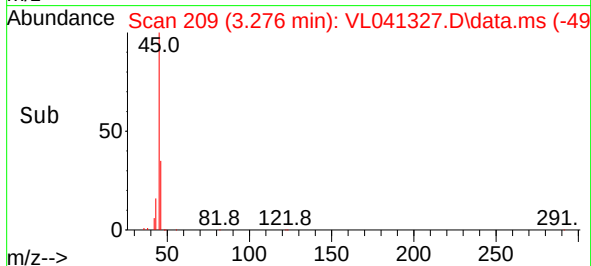
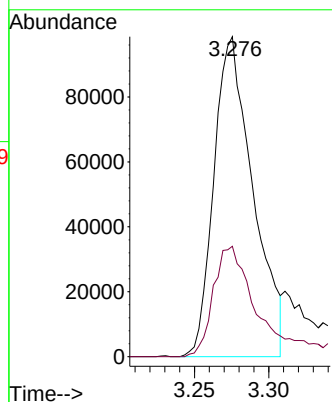
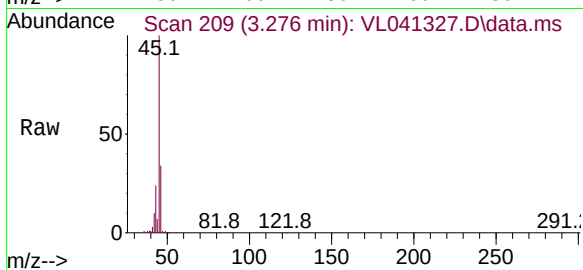
IA1

Tgt Ion: 45 Resp: 180378

Ion Ratio Lower Upper

45 100

46 43.3 14.2 56.6



#15

Acetone

Concen: 14.525 ppbv

RT: 3.494 min Scan# 277

Delta R.T. 0.006 min

Lab File: VL041327.D

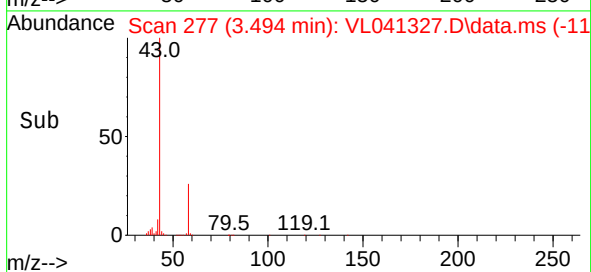
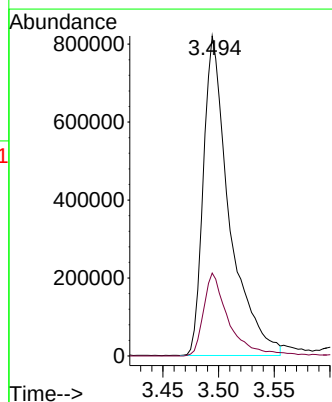
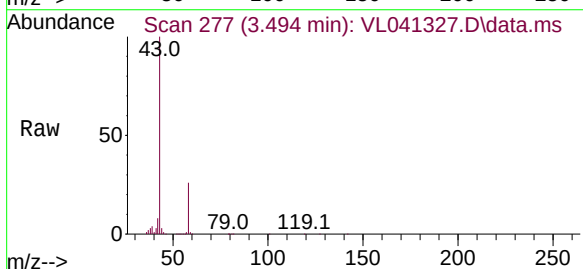
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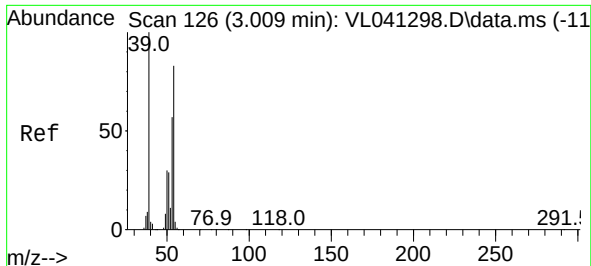
Tgt Ion: 43 Resp: 1330897

Ion Ratio Lower Upper

43 100

58 25.3 20.6 31.0





#16

1,3-Butadiene

Concen: 0.304 ppbv

RT: 3.005 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

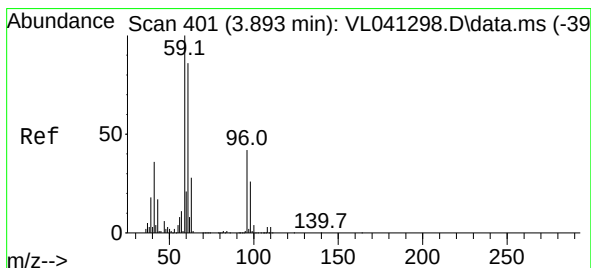
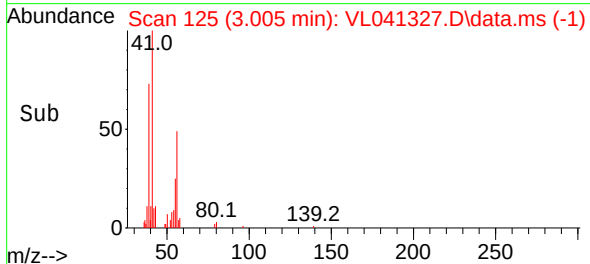
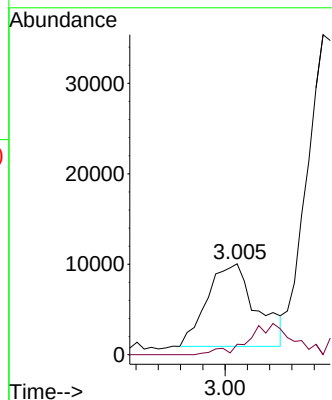
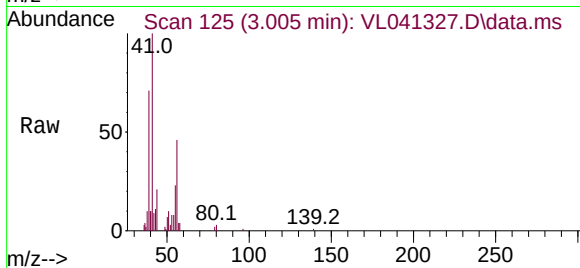
IA1

Tgt Ion: 39 Resp: 13999

Ion Ratio Lower Upper

39 100

54 41.4 60.5 90.7#



#17

tert-Butyl alcohol

Concen: 7.228 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.035 min

Lab File: VL041327.D

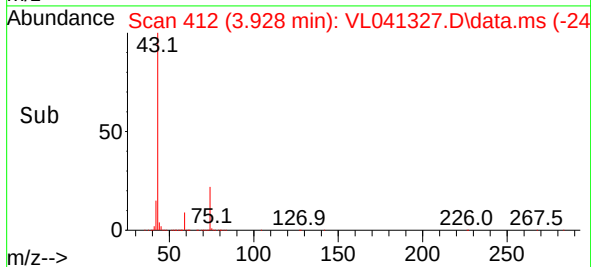
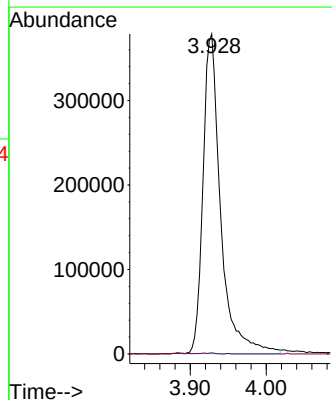
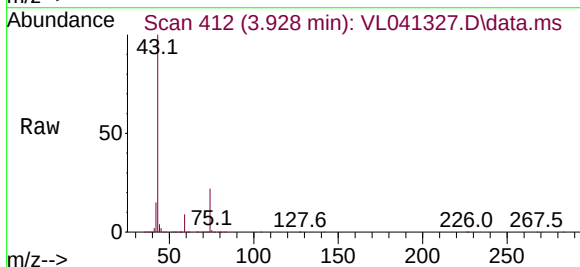
Acq: 5 Jun 2024 14:50

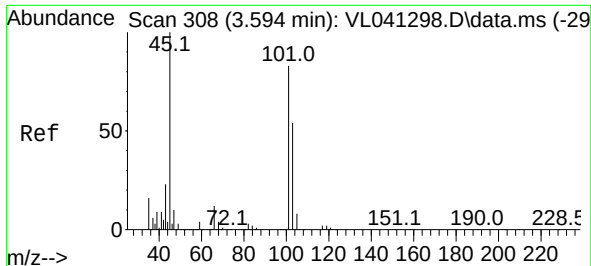
Tgt Ion: 59 Resp: 609750

Ion Ratio Lower Upper

59 100

57 2.6 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 1.896 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.016 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

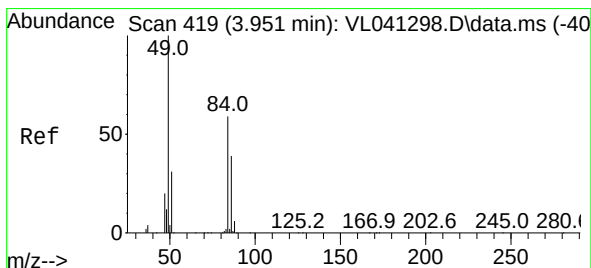
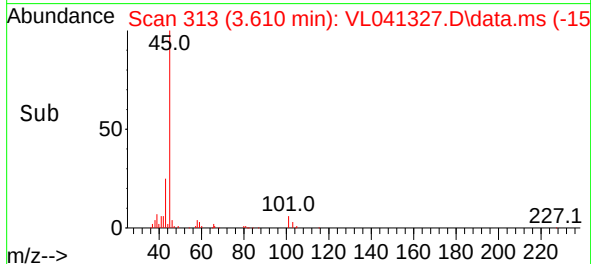
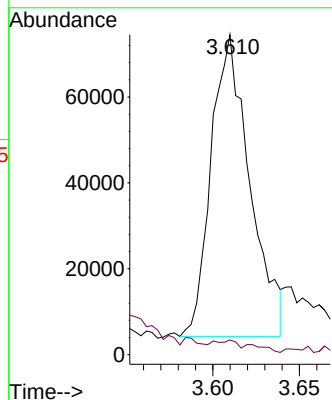
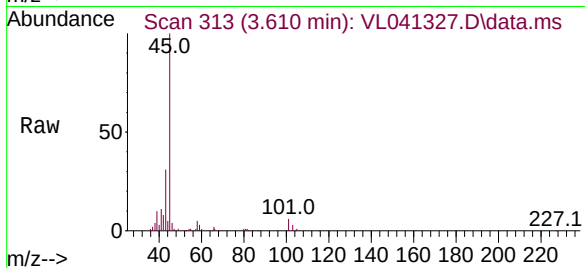
IA1

Tgt Ion: 45 Resp: 109154

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 5.755 ppbv

RT: 3.960 min Scan# 422

Delta R.T. 0.010 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Tgt Ion: 84 Resp: 191668

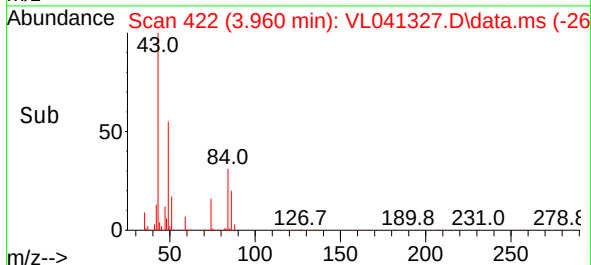
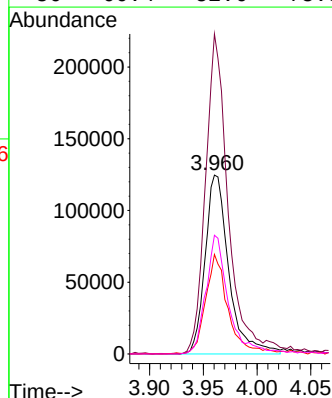
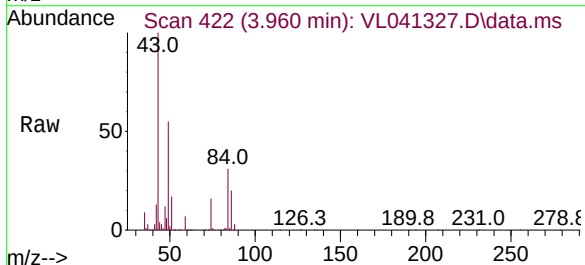
Ion Ratio Lower Upper

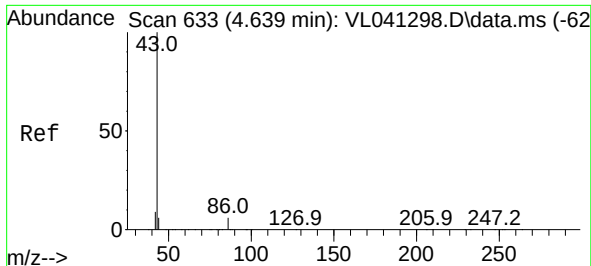
84 100

49 178.9 136.2 204.2

51 55.3 41.9 62.9

86 66.4 52.6 78.8

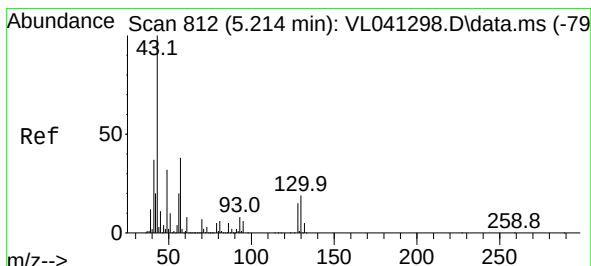
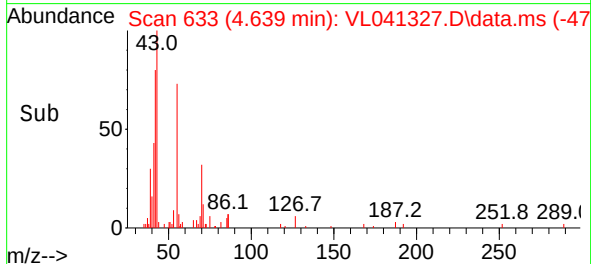
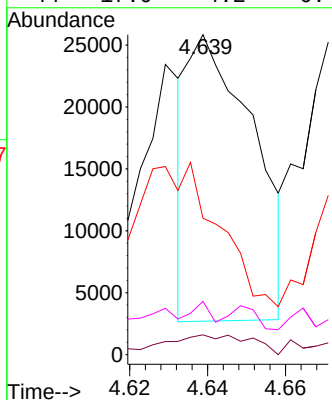
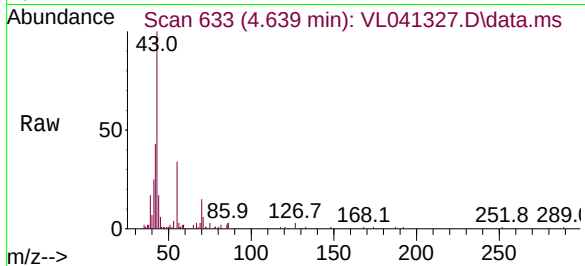




#23
 Vinyl Acetate
 Concen: 0.289 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

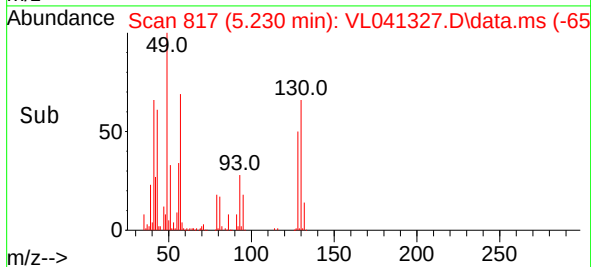
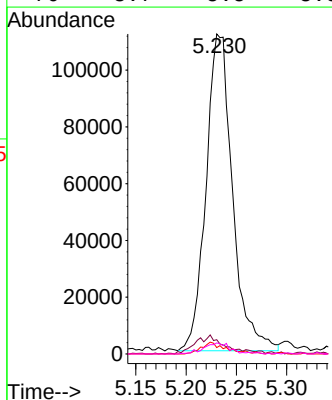
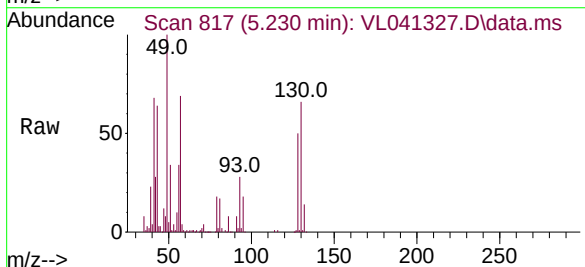
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

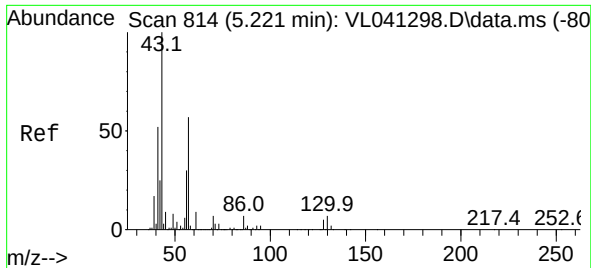
Tgt Ion:	43	Resp:	27062
Ion	Ratio	Lower	Upper
43	100		
86	12.5	4.7	7.1#
42	55.8	8.0	12.0#
44	17.9	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 1.132 ppbv
 RT: 5.230 min Scan# 817
 Delta R.T. 0.016 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

Tgt Ion:	43	Resp:	205155
Ion	Ratio	Lower	Upper
43	100		
45	7.1	8.1	12.1#
61	3.6	7.4	11.0#
70	3.7	5.5	8.3#





#26

Hexane

Concen: 2.699 ppbv

RT: 5.230 min Scan# 814

Delta R.T. 0.010 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 57 Resp: 219997

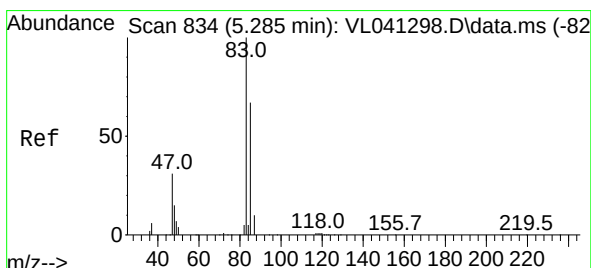
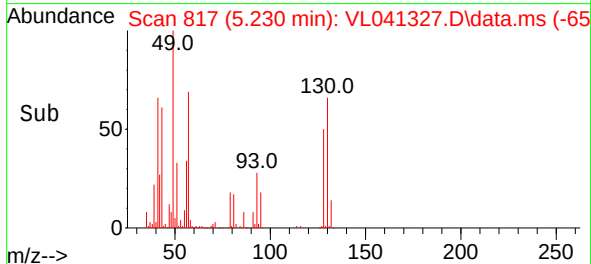
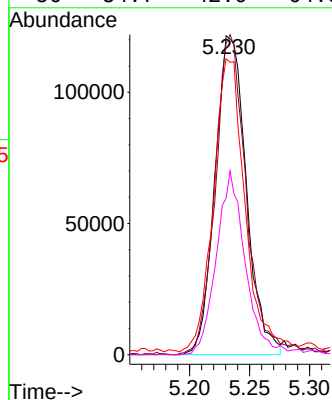
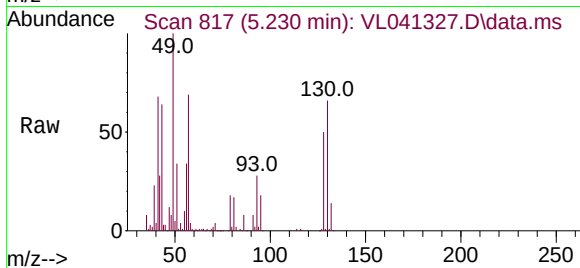
Ion Ratio Lower Upper

57 100

41 102.1 77.1 115.7

43 92.8 186.1 279.1#

56 54.7 42.9 64.3



#29

Chloroform

Concen: 0.075 ppbv

RT: 5.295 min Scan# 837

Delta R.T. 0.010 min

Lab File: VL041327.D

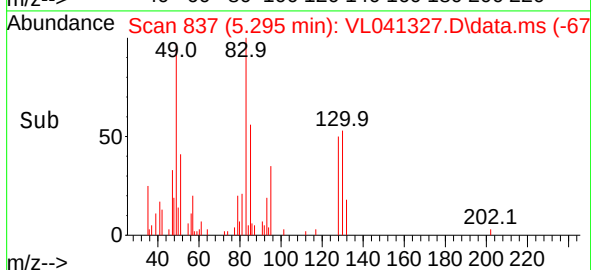
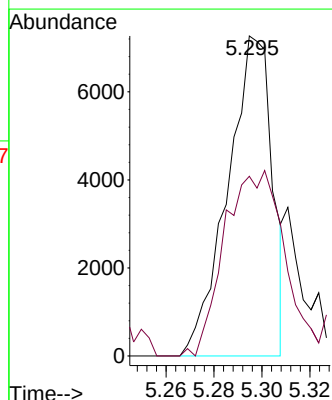
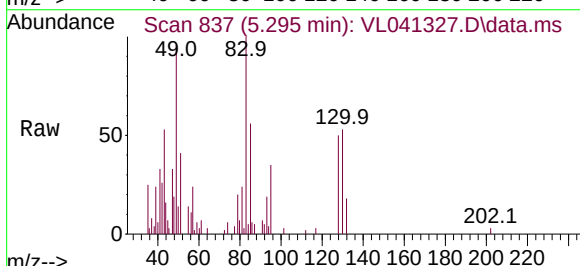
Acq: 5 Jun 2024 14:50

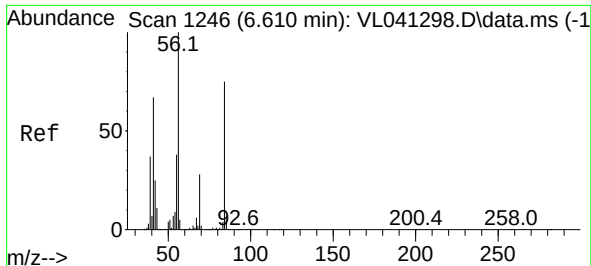
Tgt Ion: 83 Resp: 9394

Ion Ratio Lower Upper

83 100

85 56.2 53.3 79.9





#30

Cyclohexane

Concen: 1.300 ppbv

RT: 6.616 min Scan# 1246

Delta R.T. 0.006 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

IA1

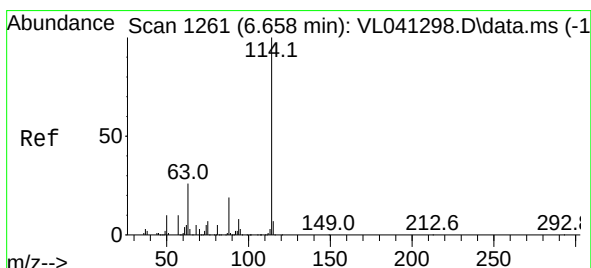
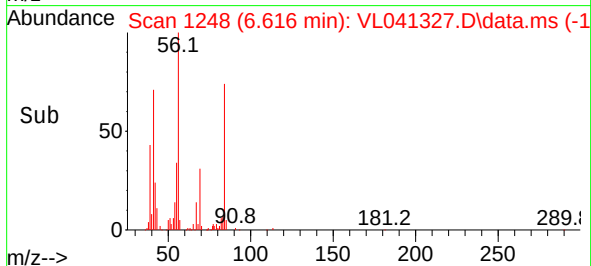
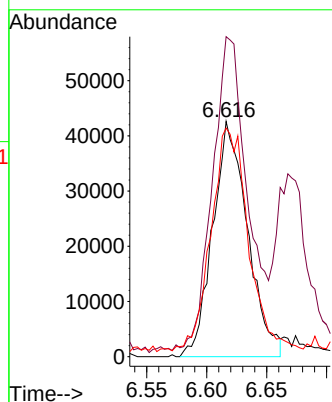
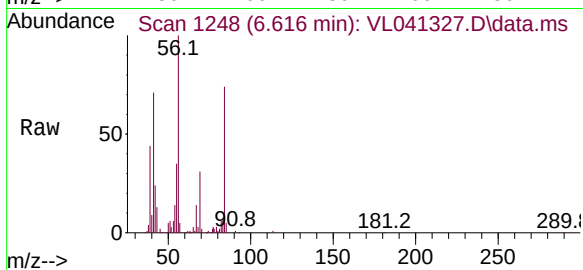
Tgt Ion: 84 Resp: 85902

Ion Ratio Lower Upper

84 100

56 133.6 114.9 172.3

41 103.4 74.4 111.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. 0.013 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

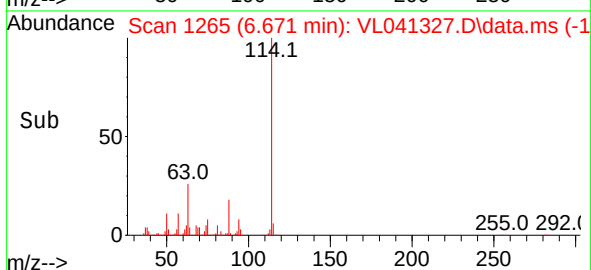
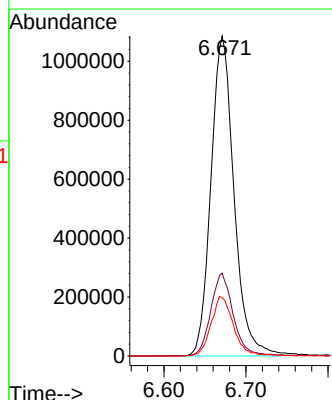
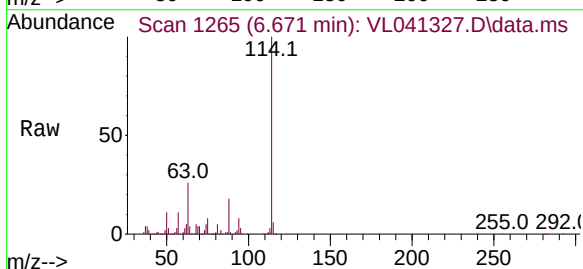
Tgt Ion: 114 Resp: 2122089

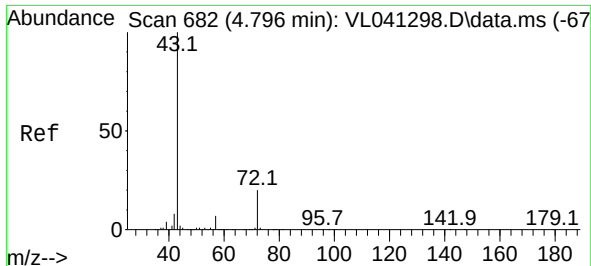
Ion Ratio Lower Upper

114 100

63 25.5 20.6 30.8

88 18.2 14.5 21.7

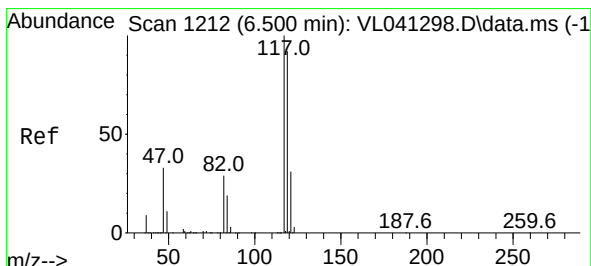
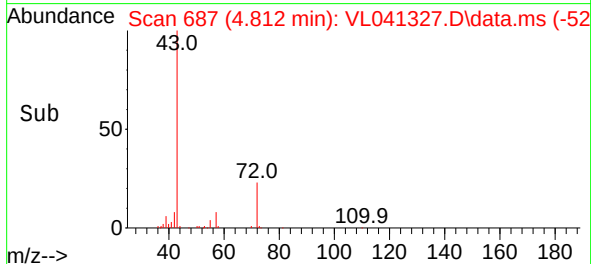
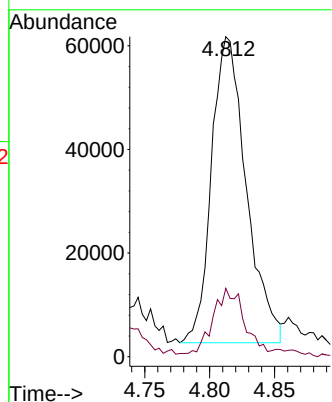
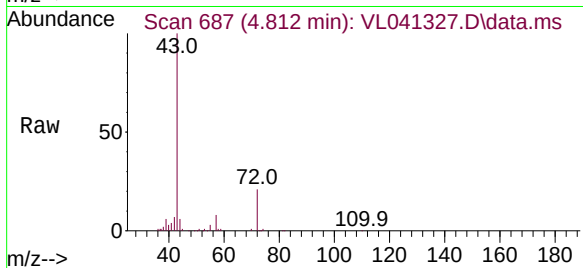




#34
2-Butanone
Concen: 1.079 ppbv
RT: 4.812 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041327.D
Acq: 5 Jun 2024 14:50

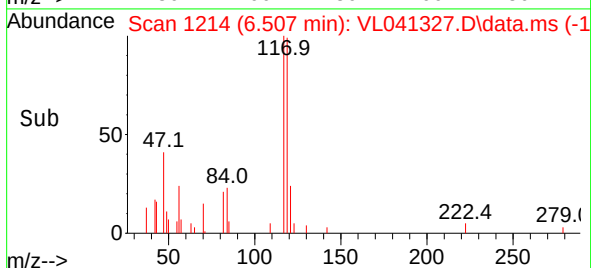
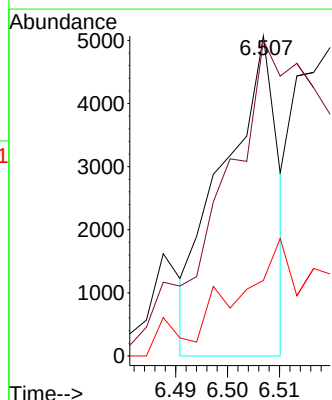
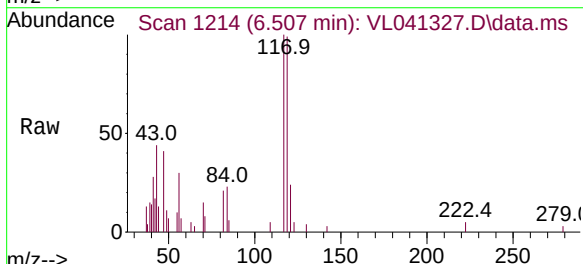
Instrument :
MSVOA_L
ClientSampleId :
IA1

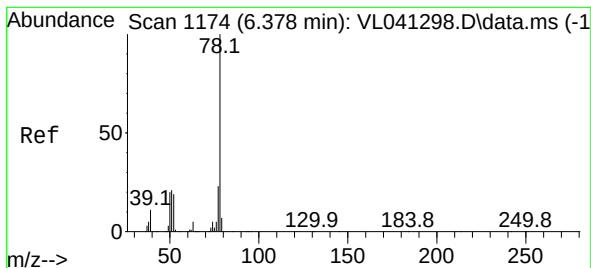
Tgt Ion: 43 Resp: 109728
Ion Ratio Lower Upper
43 100
72 22.8 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 6.507 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VL041327.D
Acq: 5 Jun 2024 14:50

Tgt Ion: 117 Resp: 3744
Ion Ratio Lower Upper
117 100
119 101.2 74.0 111.0
121 23.7 24.8 37.2#





#36

Benzene

Concen: 0.435 ppbv

RT: 6.385 min Scan# 1174

Delta R.T. 0.006 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

IA1

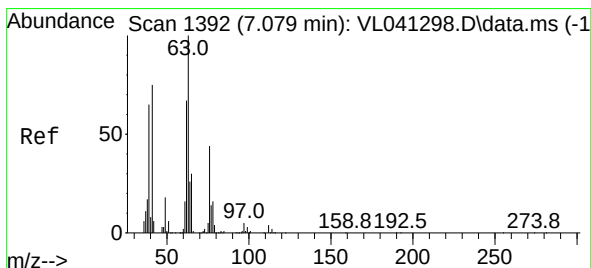
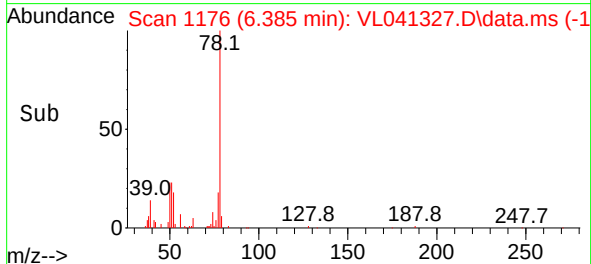
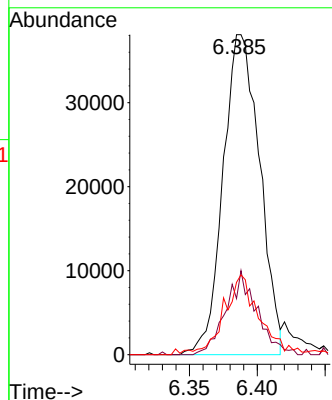
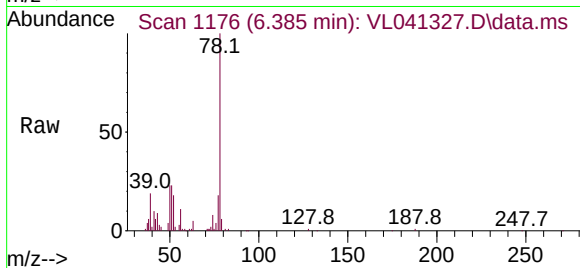
Tgt Ion: 78 Resp: 71599

Ion Ratio Lower Upper

78 100

77 17.6 18.6 28.0#

50 21.6 16.0 24.0



#39

1,2-Dichloropropane

Concen: 7.972 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. -0.408 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

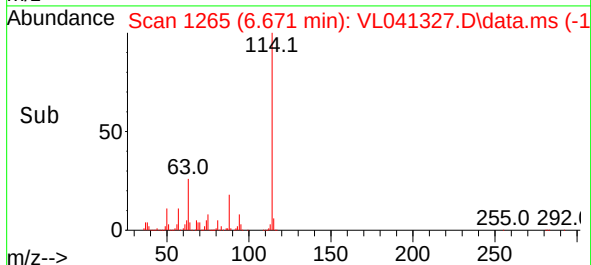
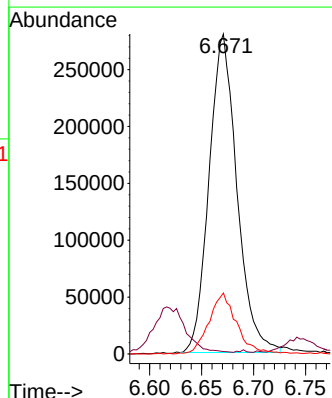
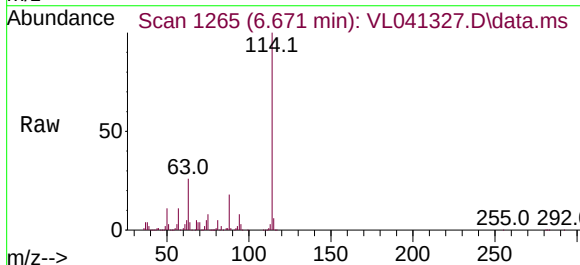
Tgt Ion: 63 Resp: 522136

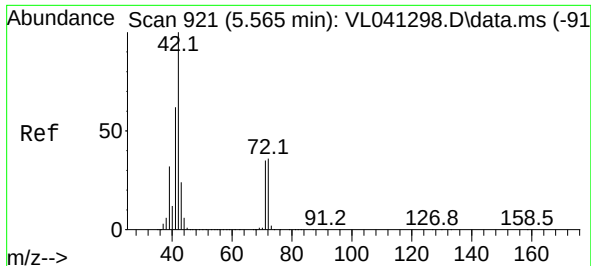
Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 18.9 53.8 80.6#





#41

Tetrahydrofuran

Concen: 0.083 ppbv

RT: 5.584 min Scan# 91

Delta R.T. 0.019 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

IA1

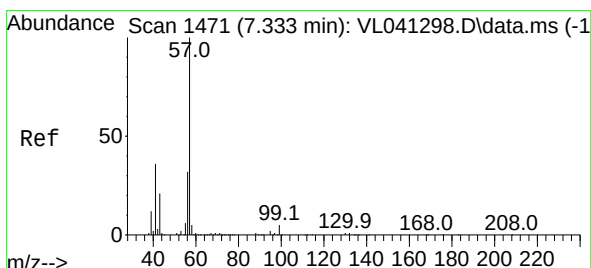
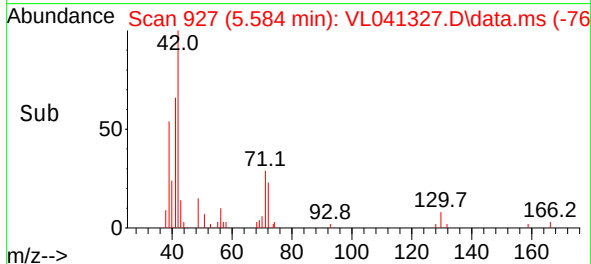
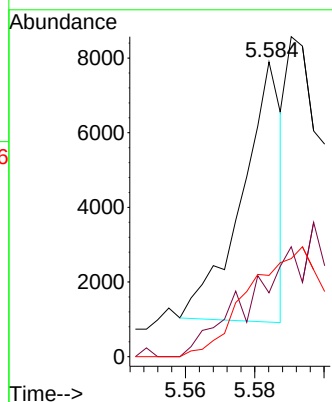
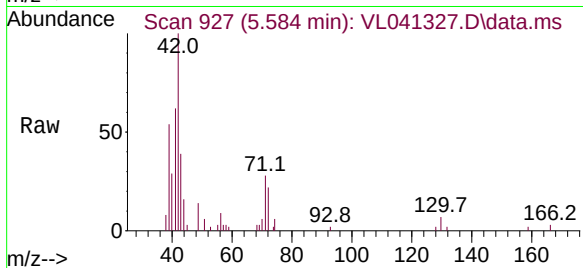
Tgt Ion: 42 Resp: 5516

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.4#

71 0.0 30.3 45.5#



#44

2,2,4-Trimethylpentane

Concen: 0.164 ppbv

RT: 7.346 min Scan# 1475

Delta R.T. 0.013 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

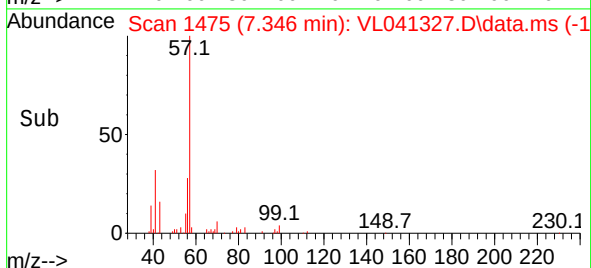
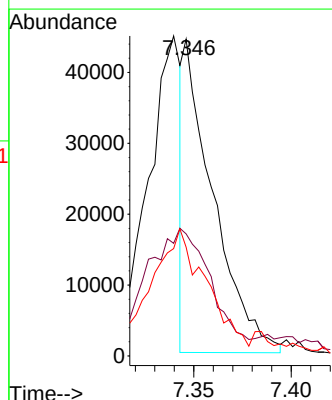
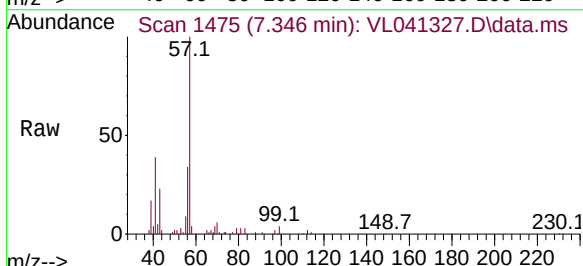
Tgt Ion: 57 Resp: 46476

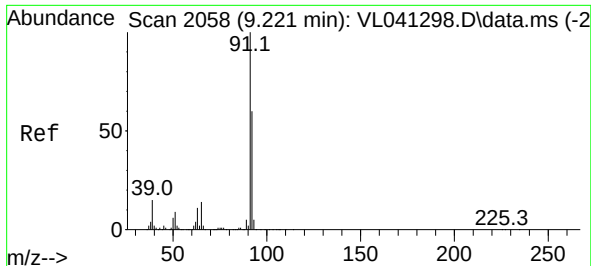
Ion Ratio Lower Upper

57 100

41 110.8 29.4 44.2#

56 91.5 25.0 37.4#





#53

Toluene

Concen: 2.037 ppbv

RT: 9.237 min Scan# 2058

Delta R.T. 0.016 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

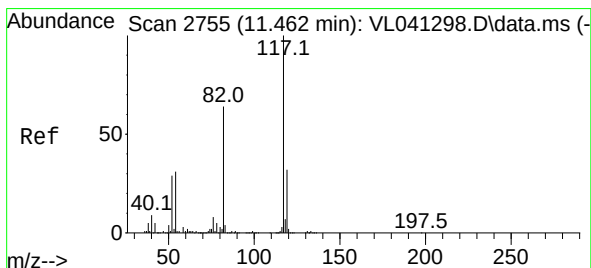
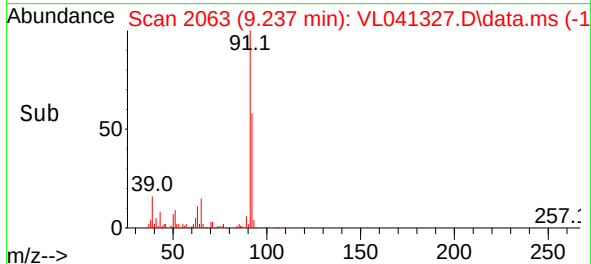
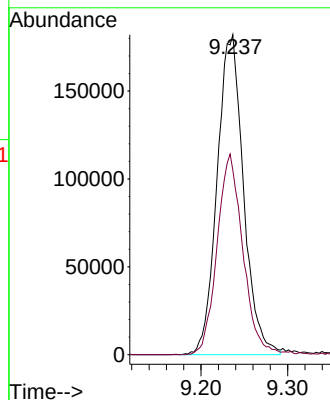
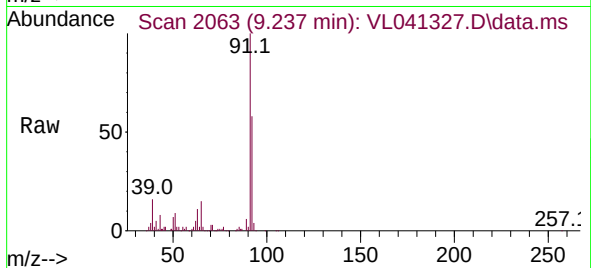
IA1

Tgt Ion: 91 Resp: 385434

Ion Ratio Lower Upper

91 100

92 61.6 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 2760

Delta R.T. 0.016 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

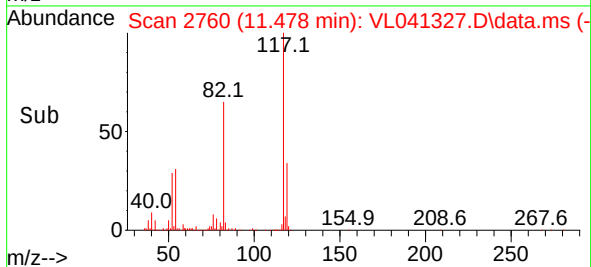
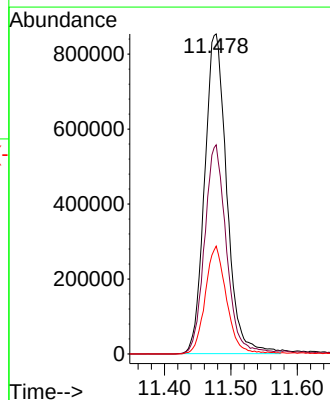
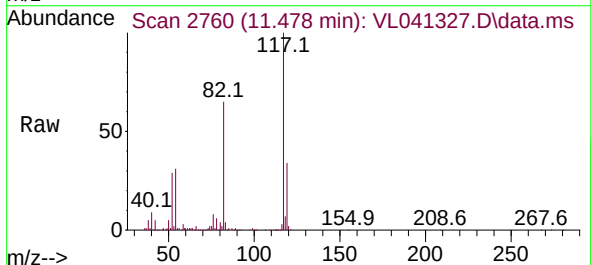
Tgt Ion: 117 Resp: 1983419

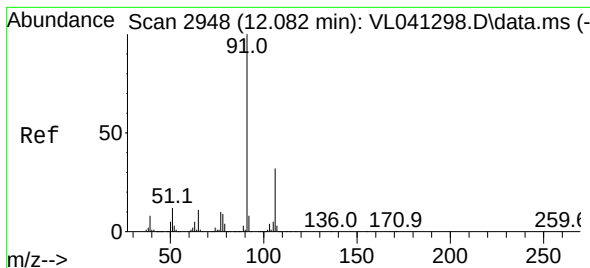
Ion Ratio Lower Upper

117 100

82 66.0 52.3 78.5

119 32.9 26.2 39.2





#58

Ethyl Benzene

Concen: 0.229 ppbv

RT: 12.098 min Scan# 2948

Delta R.T. 0.016 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

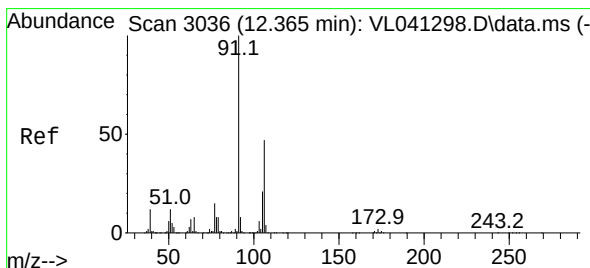
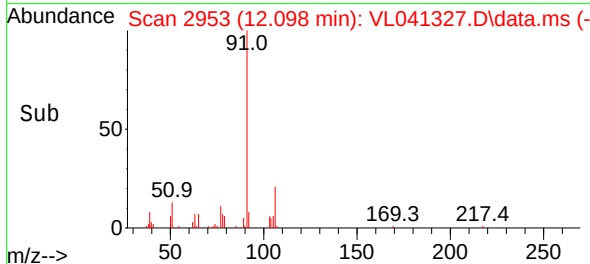
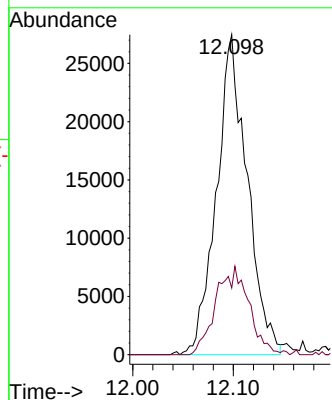
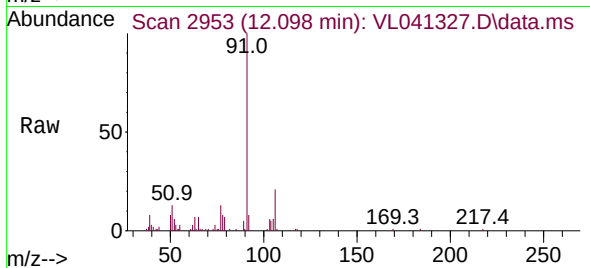
IA1

Tgt Ion: 91 Resp: 58302

Ion Ratio Lower Upper

91 100

106 20.9 25.5 38.3#



#59

m/p-Xylene

Concen: 0.886 ppbv

RT: 12.356 min Scan# 3033

Delta R.T. -0.010 min

Lab File: VL041327.D

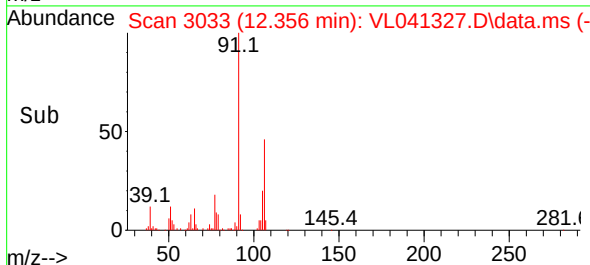
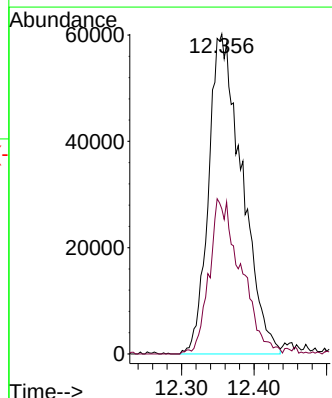
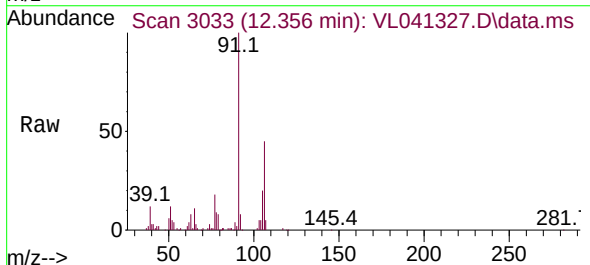
Acq: 5 Jun 2024 14:50

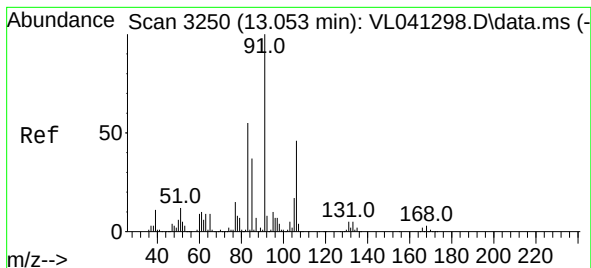
Tgt Ion: 91 Resp: 192960

Ion Ratio Lower Upper

91 100

106 46.7 35.7 53.5

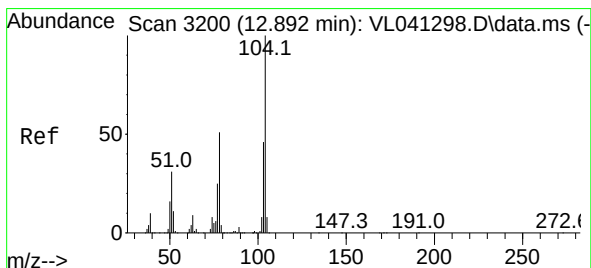
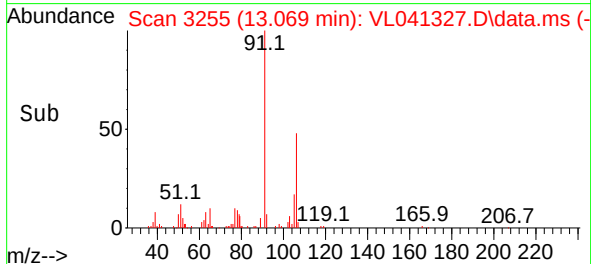
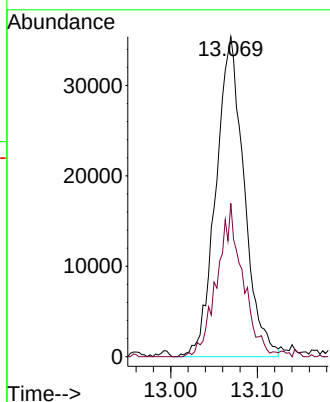
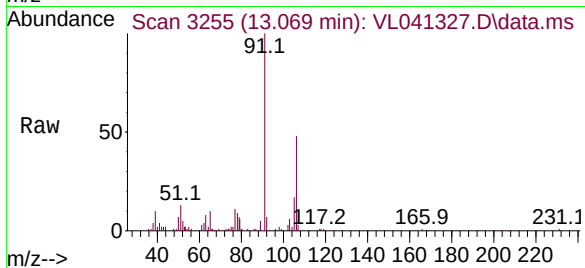




#60
o-Xylene
Concen: 0.385 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL041327.D
Acq: 5 Jun 2024 14:50

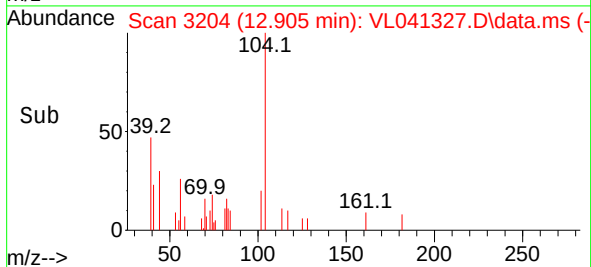
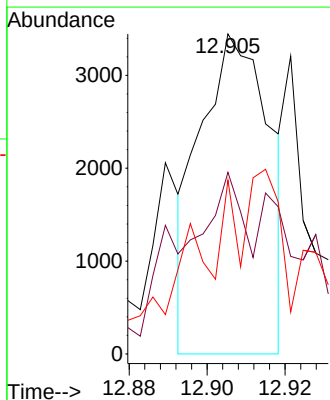
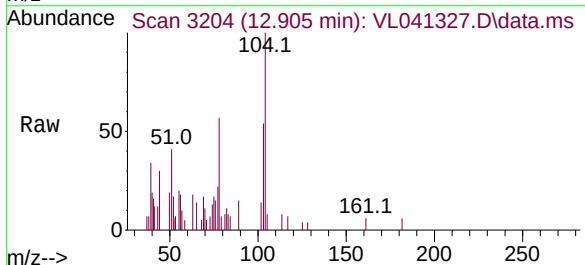
Instrument :
MSVOA_L
ClientSampleId :
IA1

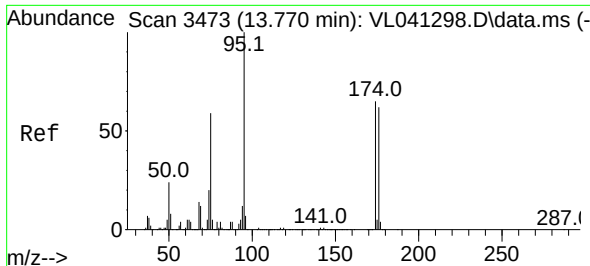
Tgt Ion: 91 Resp: 79982
Ion Ratio Lower Upper
91 100
106 44.5 22.8 68.4



#61
Styrene
Concen: 0.042 ppbv
RT: 12.905 min Scan# 3204
Delta R.T. 0.013 min
Lab File: VL041327.D
Acq: 5 Jun 2024 14:50

Tgt Ion: 104 Resp: 4247
Ion Ratio Lower Upper
104 100
78 97.8 42.2 63.4#
103 0.0 37.9 56.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.968 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.013 min

Lab File: VL041327.D

Acq: 5 Jun 2024 14:50

Instrument :

MSVOA_L

ClientSampleId :

IA1

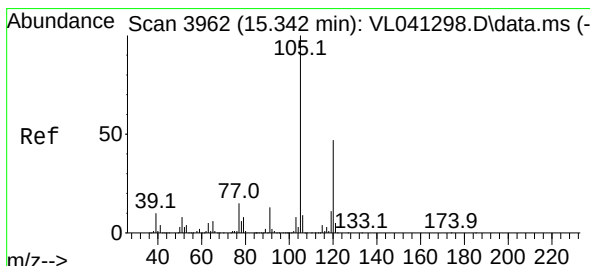
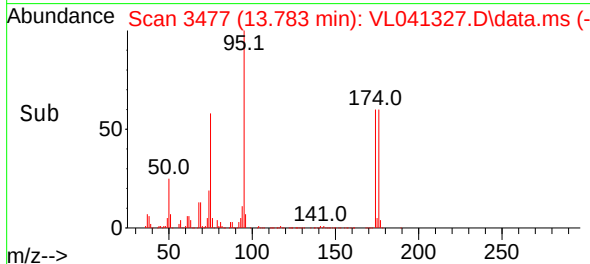
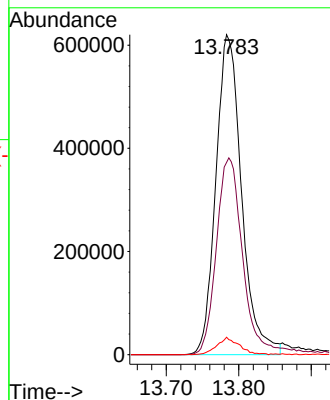
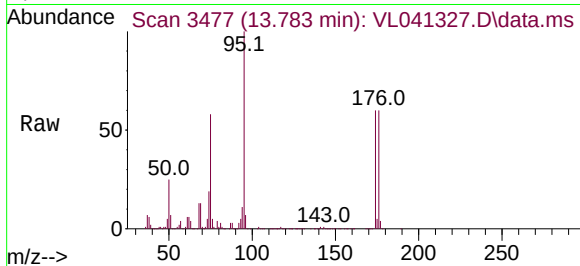
Tgt Ion: 95 Resp: 1526553

Ion Ratio Lower Upper

95 100

174 65.0 52.2 78.2

175 4.9 4.1 6.1



#73

1,3,5-Trimethylbenzene

Concen: 0.036 ppbv

RT: 15.362 min Scan# 3968

Delta R.T. 0.019 min

Lab File: VL041327.D

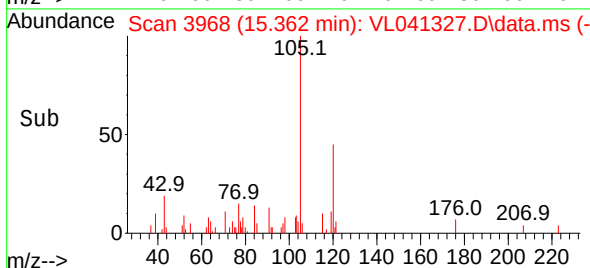
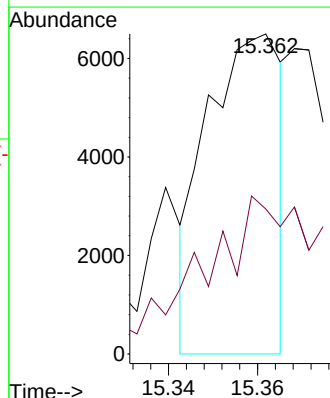
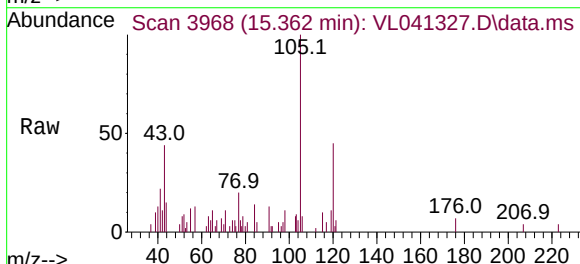
Acq: 5 Jun 2024 14:50

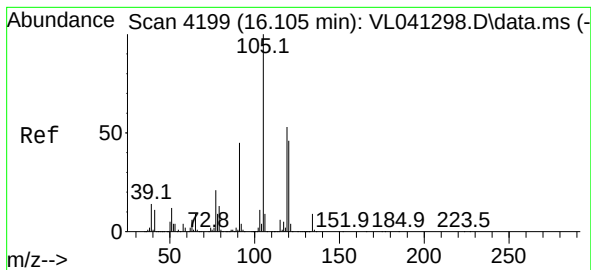
Tgt Ion:105 Resp: 7525

Ion Ratio Lower Upper

105 100

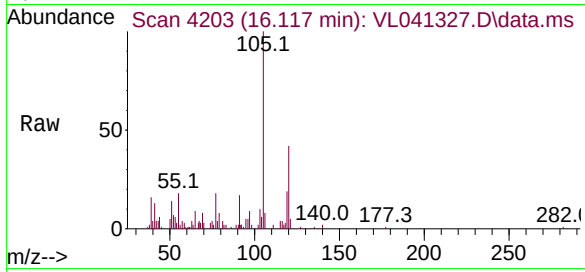
120 46.8 37.8 56.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.117 ppbv
 RT: 16.117 min Scan# 4199
 Delta R.T. 0.013 min
 Lab File: VL041327.D
 Acq: 5 Jun 2024 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	27689
Ion	Ratio	Lower	Upper
105	100		
120	39.2	37.0	55.6
91	16.8	36.2	54.4#
77	11.3	16.6	24.8#

