

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041432.D
 Acq On : 29 Jul 2024 16:59
 Operator : SY/MD
 Sample : P3342-10DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:51:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

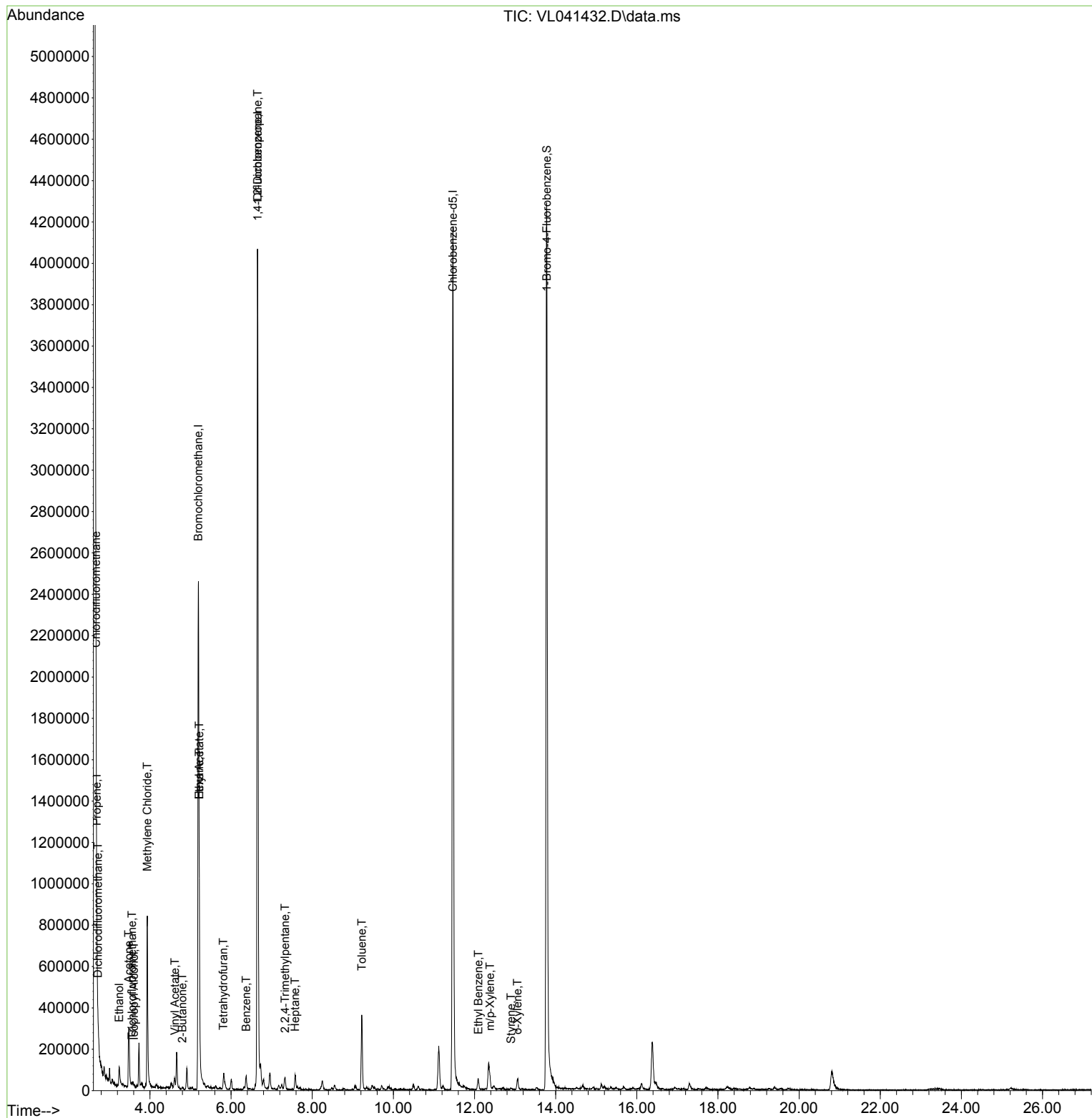
Internal Standards						
1) Bromochloromethane	5.192	49	1114424	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.655	114	2995155	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2770072	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2120939	9.949	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.722	85	6829	0.036	ppbv #	86
3) Chlorodifluoromethane	2.674	51	5688	0.043	ppbv #	59
9) Propene	2.687	41	3201	0.053	ppbv #	1
10) Heptane	7.581	43	23154	0.169	ppbv	94
11) Trichlorofluoromethane	3.555	101	6745	0.040	ppbv	96
13) Ethanol	3.243	45	104245	19.138	ppbv	91
15) Acetone	3.478	43	273570	2.161	ppbv	90
19) Isopropyl Alcohol	3.603	45	3036	0.041	ppbv #	93
20) Methylene Chloride	3.935	84	259145	5.488	ppbv	97
23) Vinyl Acetate	4.616	43	5491	0.057	ppbv #	1
25) Ethyl Acetate	5.214	43	176072	0.700	ppbv #	76
26) Hexane	5.214	57	240430	2.304	ppbv #	36
34) 2-Butanone	4.796	43	4863	0.034	ppbv	94
36) Benzene	6.375	78	25869	0.118	ppbv	95
39) 1,2-Dichloropropane	6.652	63	746936	8.915	ppbv #	25
41) Tetrahydrofuran	5.812	42	2855	0.034	ppbv #	66
44) 2,2,4-Trimethylpentane	7.330	57	23830	0.065	ppbv #	2
53) Toluene	9.221	91	265683	1.090	ppbv	98
58) Ethyl Benzene	12.095	91	18197	0.057	ppbv	95
59) m/p-Xylene	12.384	91	18588	0.067	ppbv #	31
60) o-Xylene	13.060	91	22838	0.088	ppbv #	30
61) Styrene	12.902	104	4152	0.035	ppbv	96

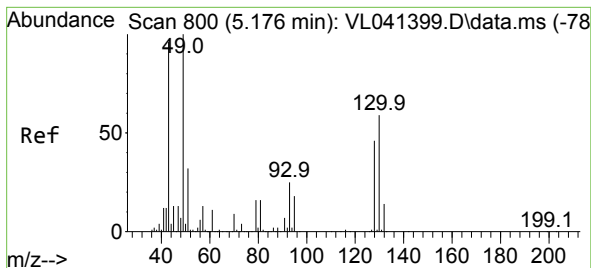
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.192 min Scan# 80

Delta R.T. 0.013 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

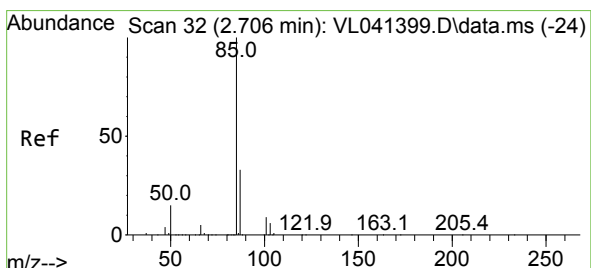
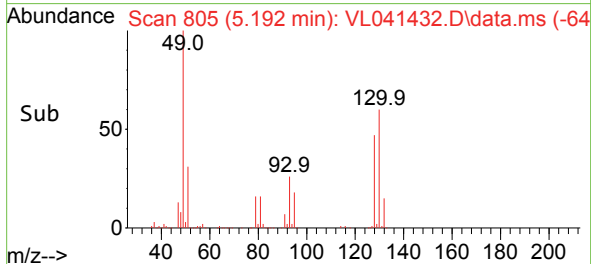
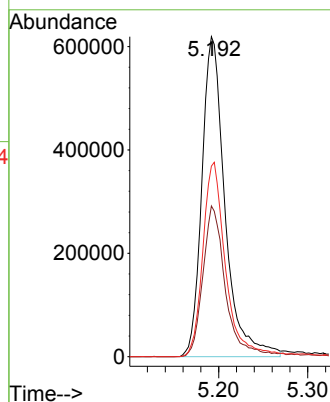
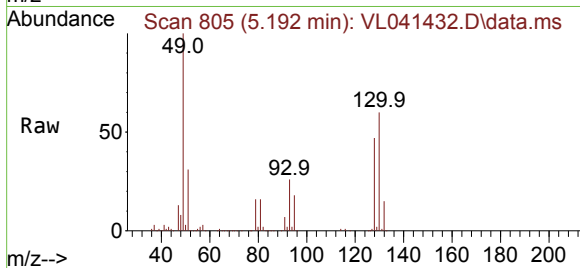
Tgt Ion: 49 Resp: 1114424

Ion Ratio Lower Upper

49 100

128 47.4 23.8 71.4

130 61.8 30.8 92.4



#2

Dichlorodifluoromethane

Concen: 0.036 ppbv

RT: 2.722 min Scan# 37

Delta R.T. 0.013 min

Lab File: VL041432.D

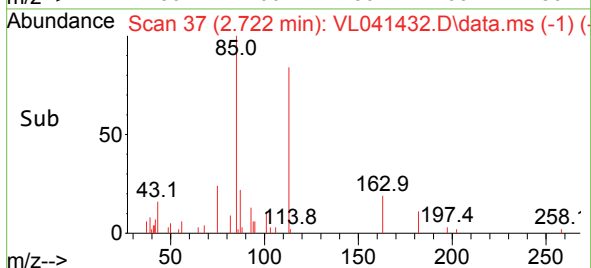
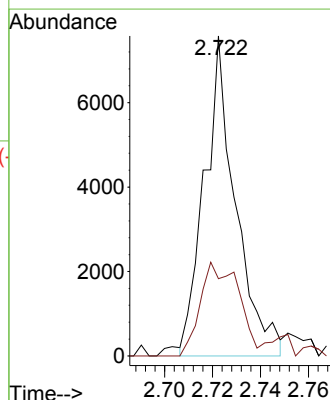
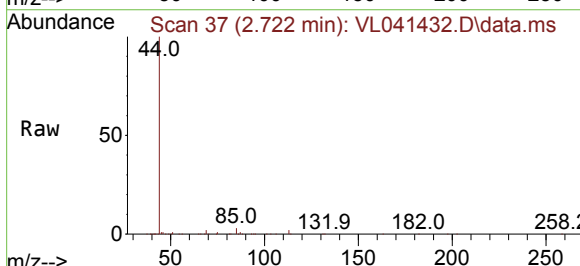
Acq: 29 Jul 2024 16:59

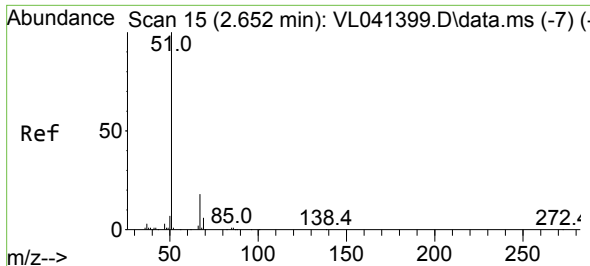
Tgt Ion: 85 Resp: 6829

Ion Ratio Lower Upper

85 100

87 24.8 26.0 39.0#

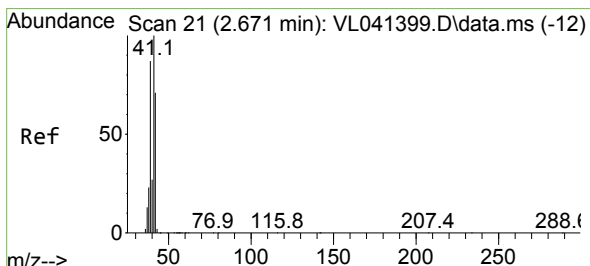
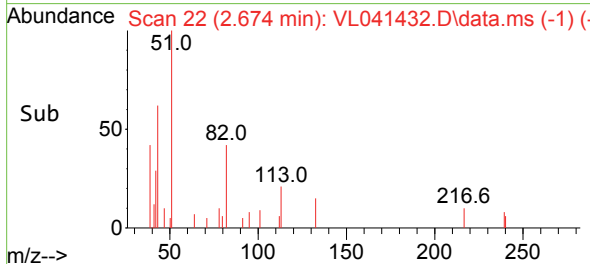
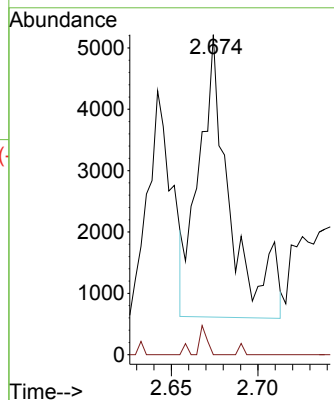
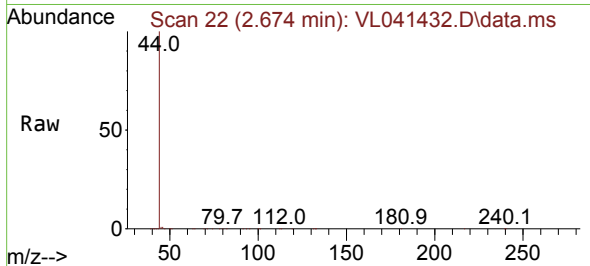




#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

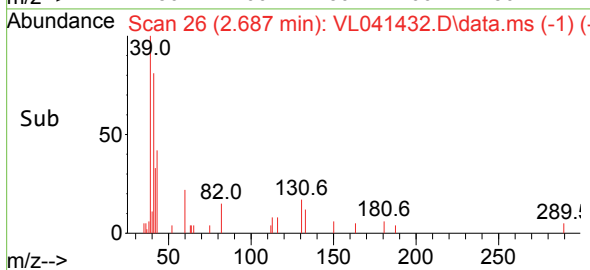
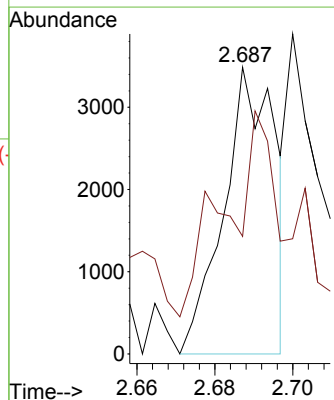
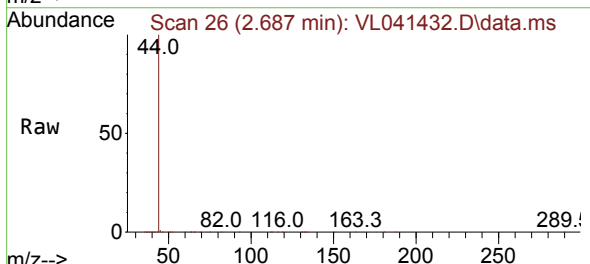
Instrument :
MSVOA_L
ClientSampleId :

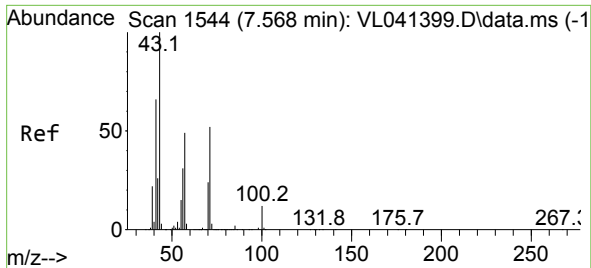
Tgt Ion: 51 Resp: 5688
Ion Ratio Lower Upper
51 100
67 0.0 14.5 21.7#



#9
Propene
Concen: 0.053 ppbv
RT: 2.687 min Scan# 26
Delta R.T. 0.016 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

Tgt Ion: 41 Resp: 3201
Ion Ratio Lower Upper
41 100
42 180.2 55.9 83.9#

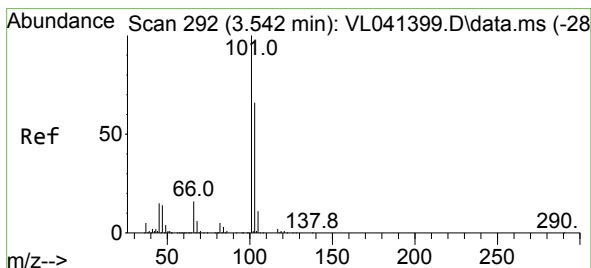
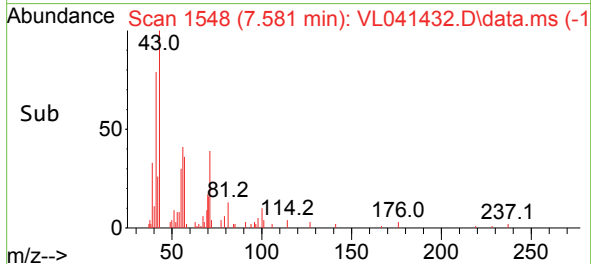
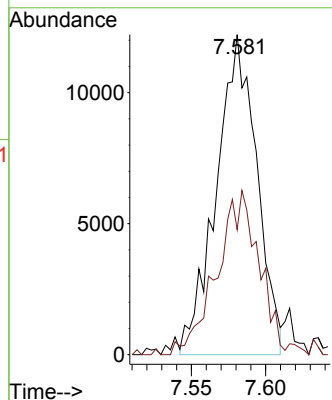
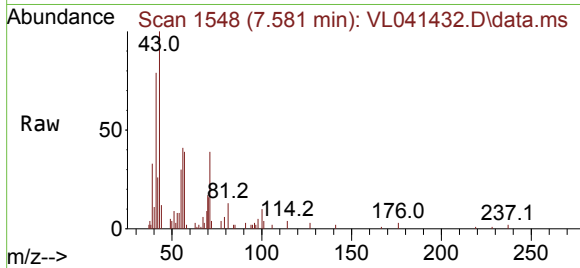




#10
Heptane
Concen: 0.169 ppbv
RT: 7.581 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

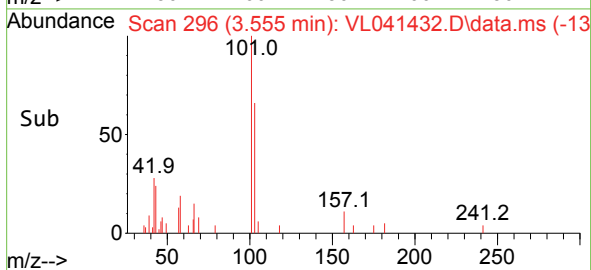
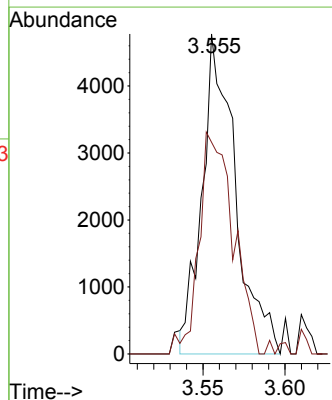
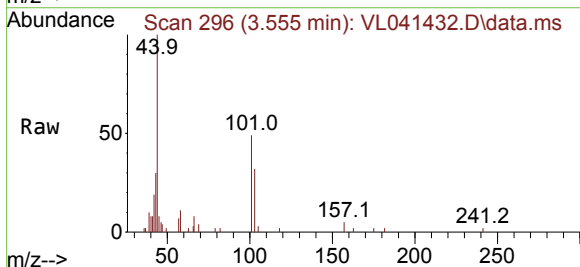
Instrument :
MSVOA_L
ClientSampleId :

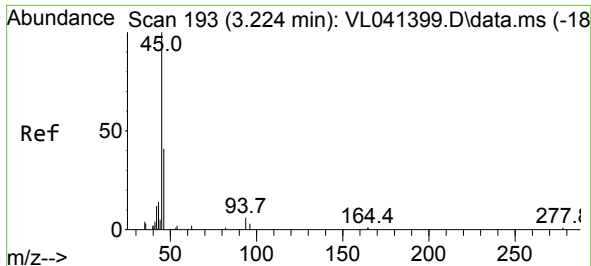
Tgt Ion: 43 Resp: 23154
Ion Ratio Lower Upper
43 100
57 54.8 40.5 60.7



#11
Trichlorofluoromethane
Concen: 0.040 ppbv
RT: 3.555 min Scan# 296
Delta R.T. 0.010 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

Tgt Ion: 101 Resp: 6745
Ion Ratio Lower Upper
101 100
103 62.9 52.6 79.0

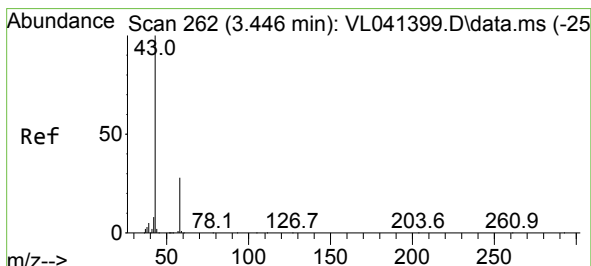
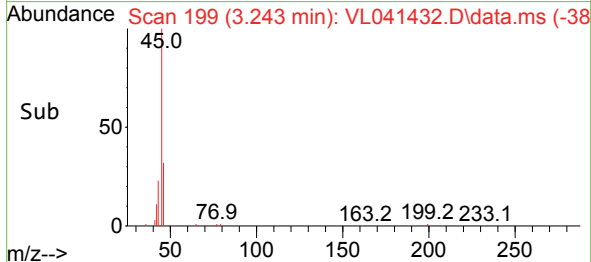
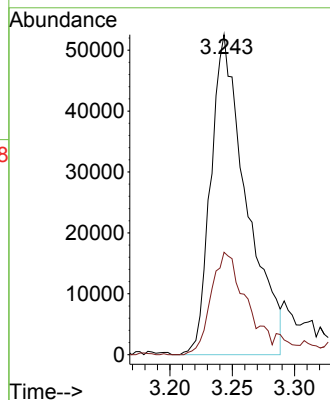
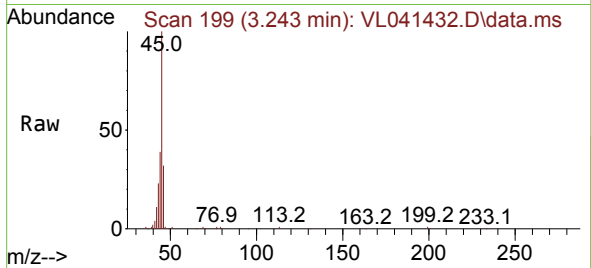




#13
Ethanol
Concen: 19.138 ppbv
RT: 3.243 min Scan# 193
Delta R.T. 0.016 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

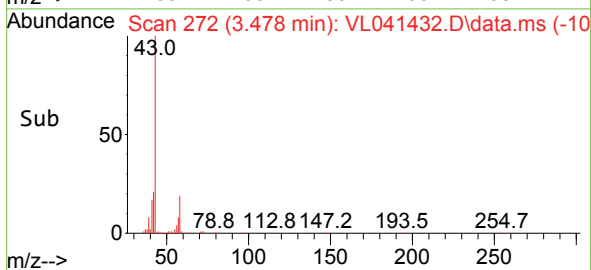
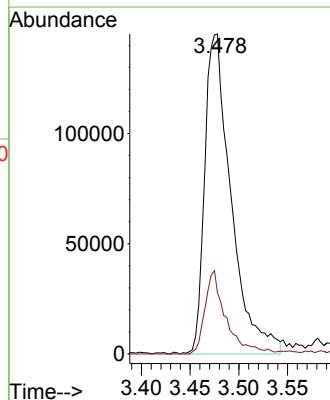
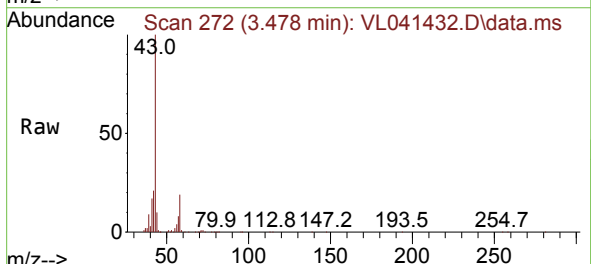
Instrument :
MSVOA_L
ClientSampleId :

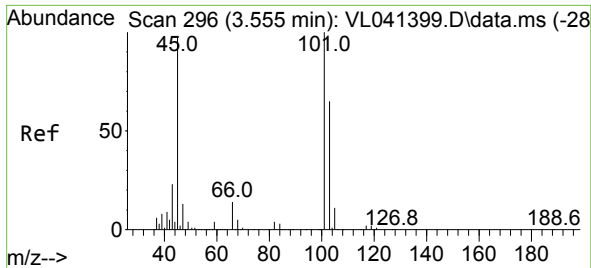
Tgt Ion: 45 Resp: 104245
Ion Ratio Lower Upper
45 100
46 38.8 13.4 53.4



#15
Acetone
Concen: 2.161 ppbv
RT: 3.478 min Scan# 272
Delta R.T. 0.026 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

Tgt Ion: 43 Resp: 273570
Ion Ratio Lower Upper
43 100
58 21.6 21.4 32.2





#19

Isopropyl Alcohol

Concen: 0.041 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.042 min

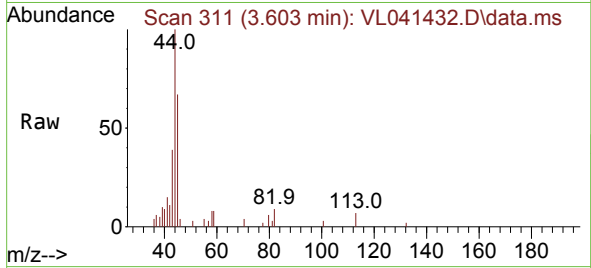
Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

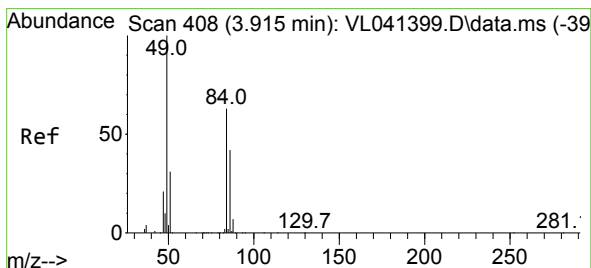
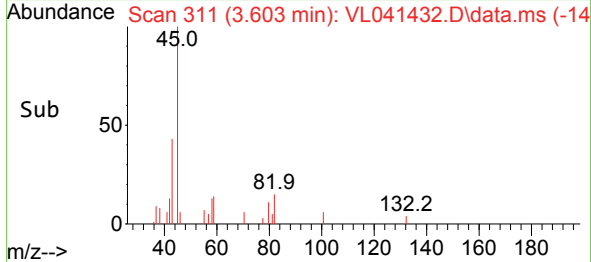
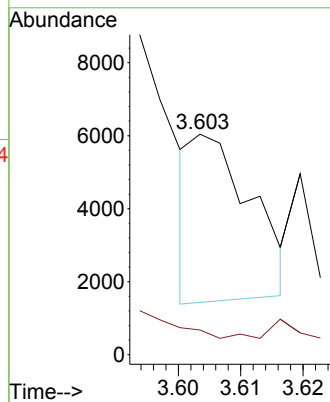


Tgt Ion: 45 Resp: 3036

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 5.488 ppbv

RT: 3.935 min Scan# 414

Delta R.T. 0.016 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Tgt Ion: 84 Resp: 259145

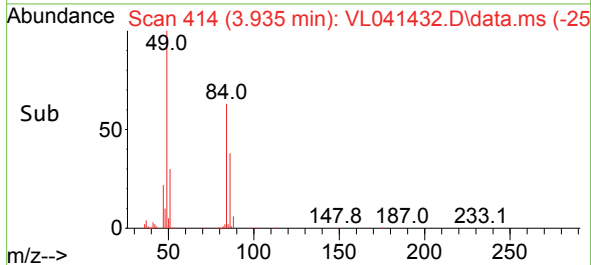
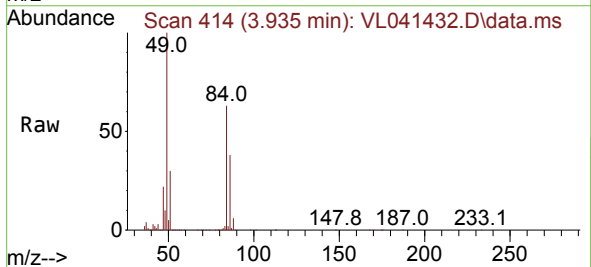
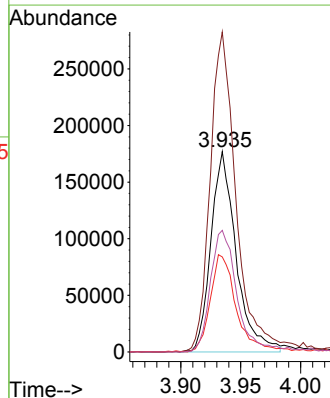
Ion Ratio Lower Upper

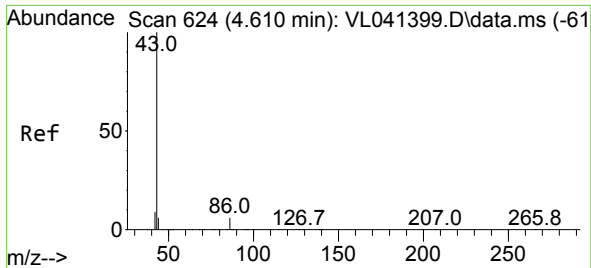
84 100

49 159.7 126.6 190.0

51 47.2 38.6 58.0

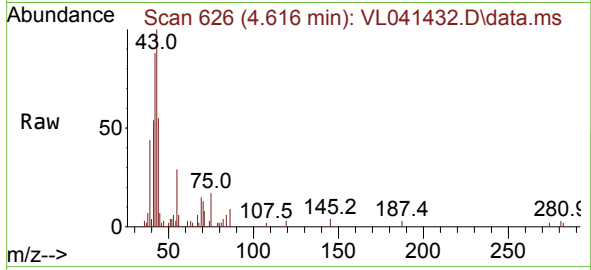
86 60.7 53.0 79.4





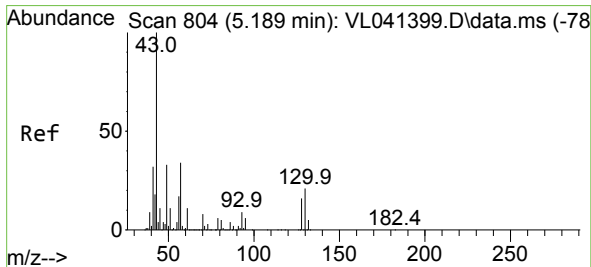
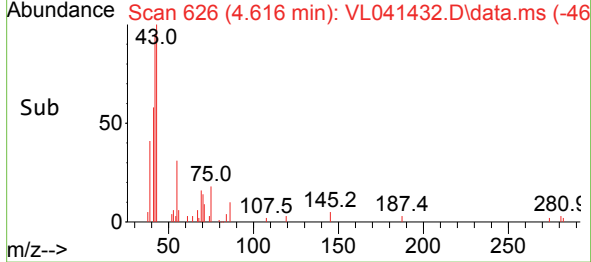
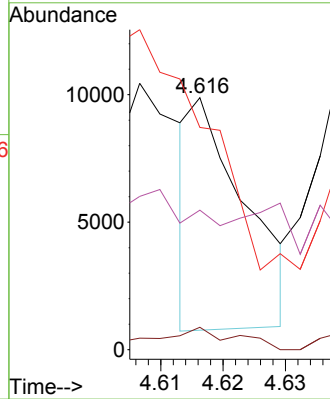
#23
 Vinyl Acetate
 Concen: 0.057 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041432.D
 Acq: 29 Jul 2024 16:59

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 5491

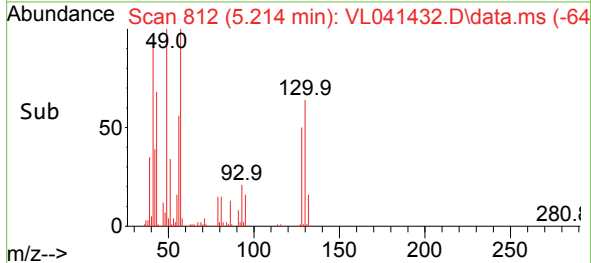
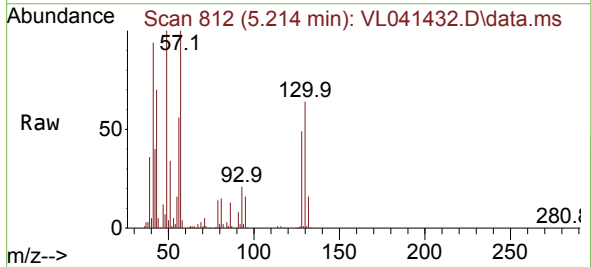
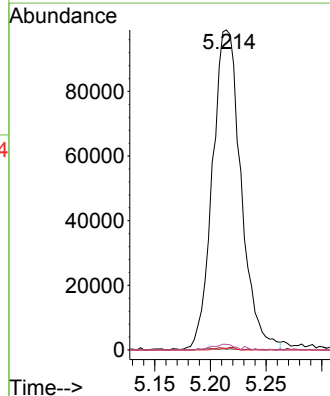
Ion	Ratio	Lower	Upper
43	100		
86	15.4	4.6	6.8#
42	86.4	7.9	11.9#
44	21.7	4.2	6.4#

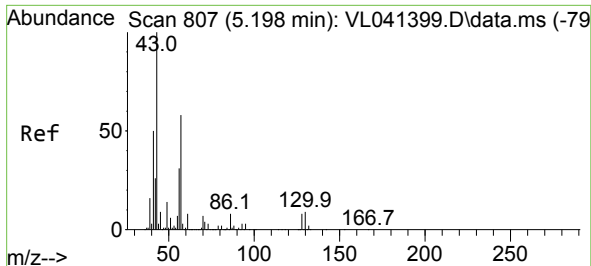


#25
 Ethyl Acetate
 Concen: 0.700 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.023 min
 Lab File: VL041432.D
 Acq: 29 Jul 2024 16:59

Tgt Ion: 43 Resp: 176072

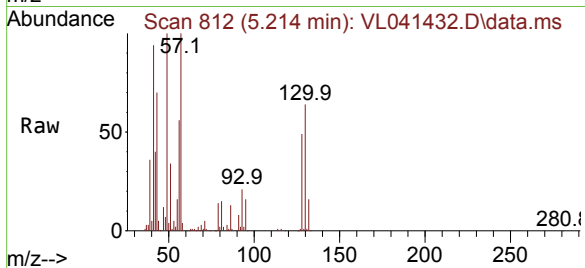
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.5	12.7#
61	0.3	8.0	12.0#
70	1.6	5.9	8.9#



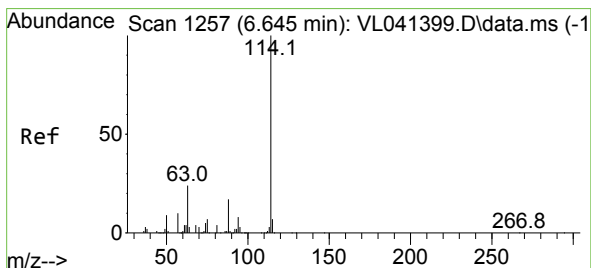
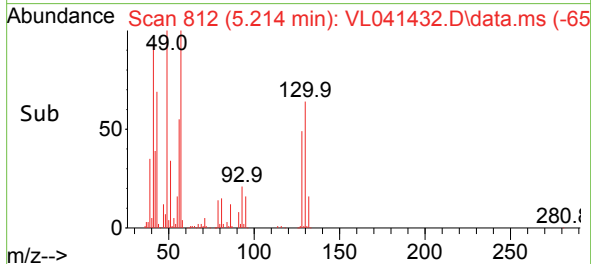
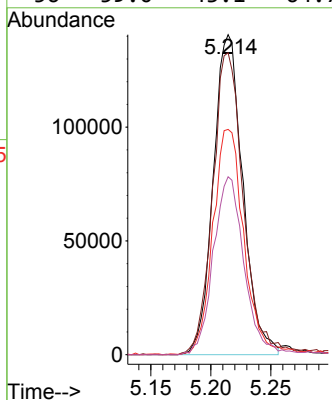


#26
Hexane
Concen: 2.304 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.016 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

Instrument :
MSVOA_L
ClientSampleId :

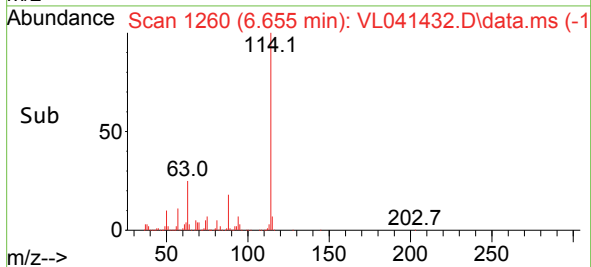
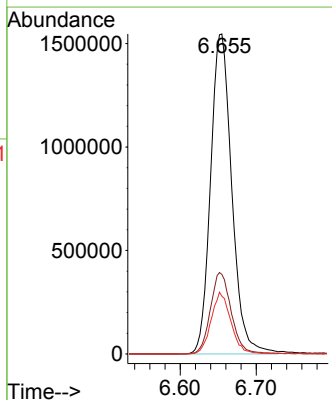
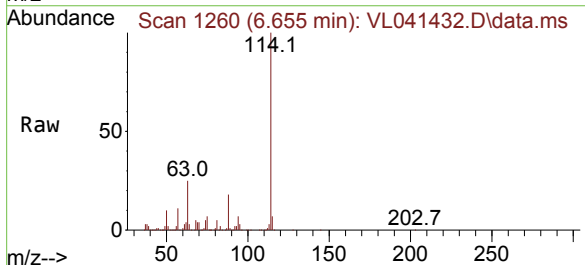


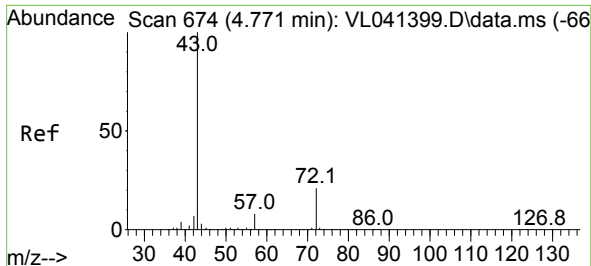
Tgt Ion: 57 Resp: 240430
Ion Ratio Lower Upper
57 100
41 99.6 74.0 111.0
43 75.3 193.6 290.4#
56 59.0 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.010 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

Tgt Ion: 114 Resp: 2995155
Ion Ratio Lower Upper
114 100
63 25.3 20.3 30.5
88 18.0 14.3 21.5





#34

2-Butanone

Concen: 0.034 ppbv

RT: 4.796 min Scan# 61

Delta R.T. 0.023 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

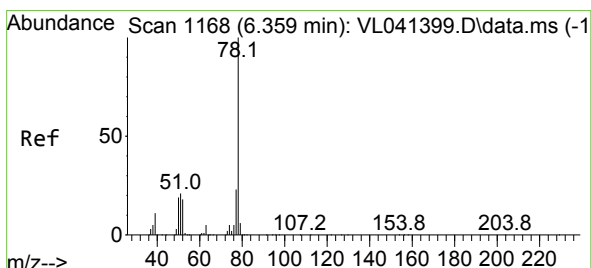
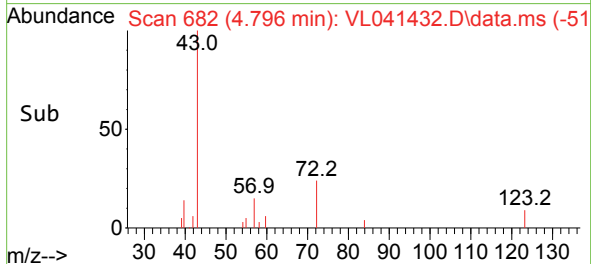
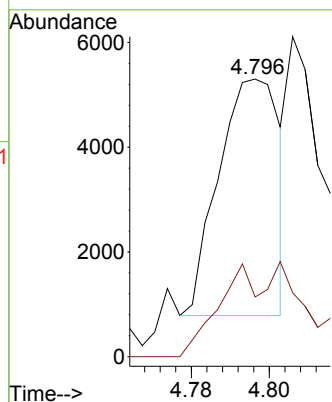
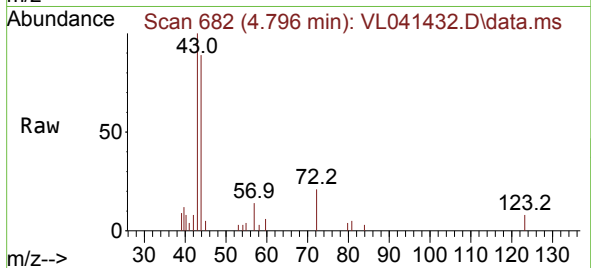
ClientSampleId :

Tgt Ion: 43 Resp: 4863

Ion Ratio Lower Upper

43 100

72 18.7 17.3 25.9



#36

Benzene

Concen: 0.118 ppbv

RT: 6.375 min Scan# 1173

Delta R.T. 0.016 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

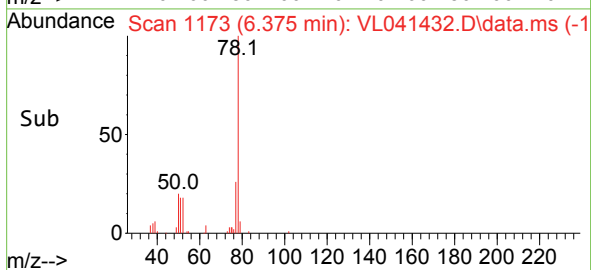
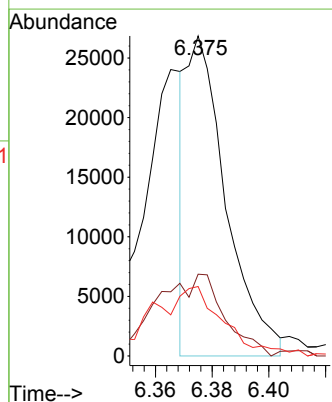
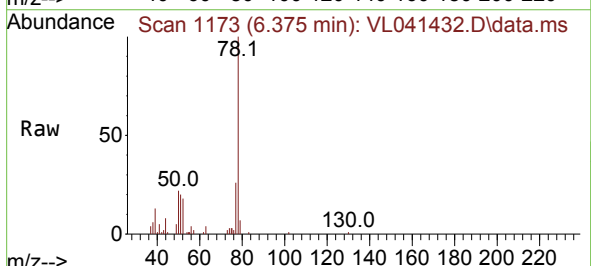
Tgt Ion: 78 Resp: 25869

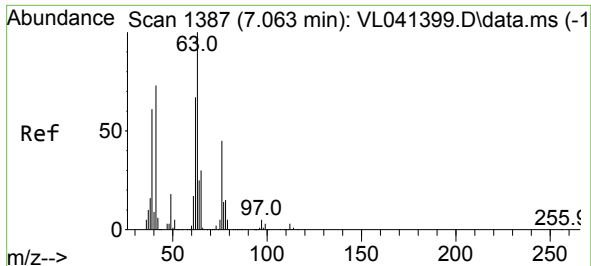
Ion Ratio Lower Upper

78 100

77 25.5 18.1 27.1

50 20.7 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.915 ppbv

RT: 6.652 min Scan# 1

Delta R.T. -0.412 min

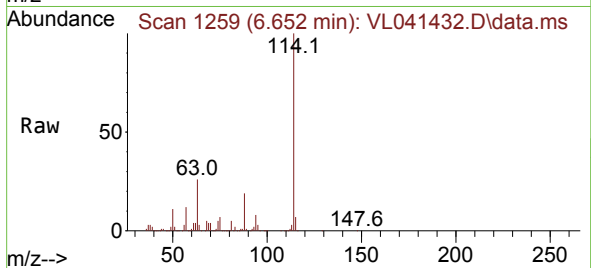
Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :



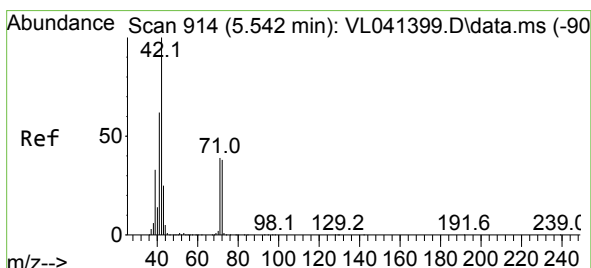
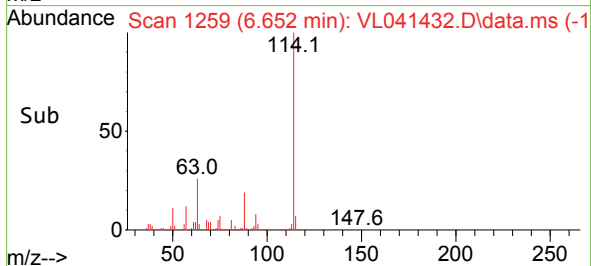
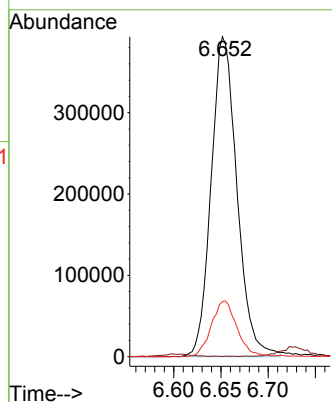
Tgt Ion: 63 Resp: 746936

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.3 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.034 ppbv

RT: 5.812 min Scan# 998

Delta R.T. 0.267 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

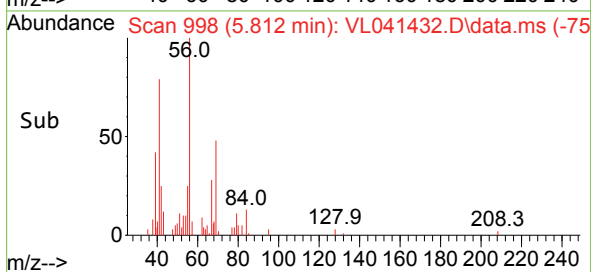
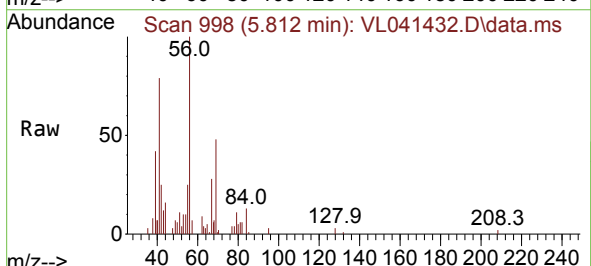
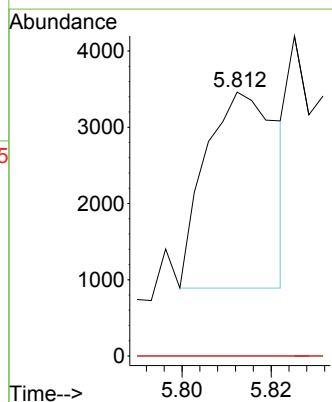
Tgt Ion: 42 Resp: 2855

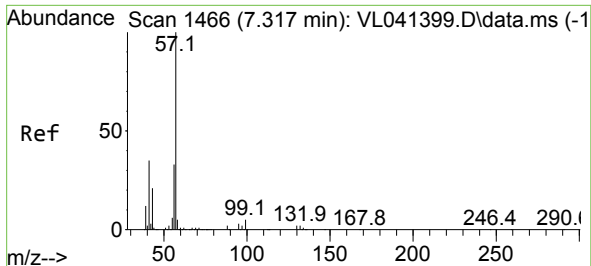
Ion Ratio Lower Upper

42 100

72 35.9 31.2 46.8

71 0.0 30.5 45.7#

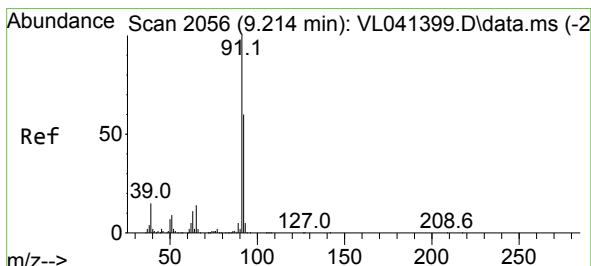
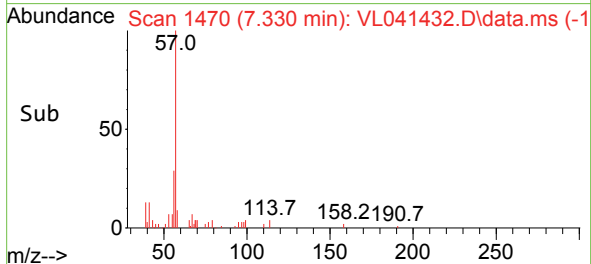
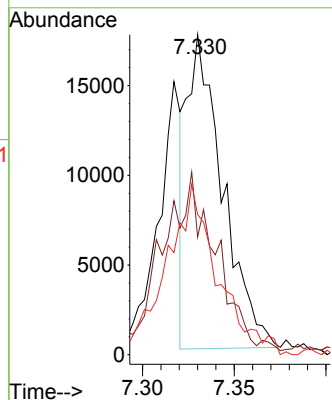
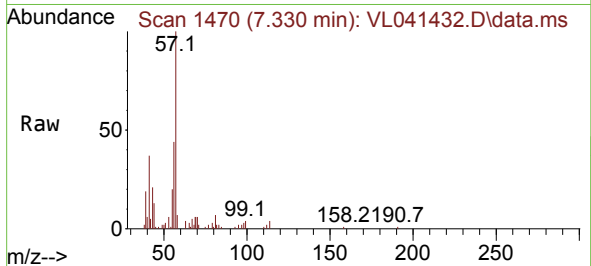




#44
2,2,4-Trimethylpentane
Concen: 0.065 ppbv
RT: 7.330 min Scan# 1466
Delta R.T. 0.013 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

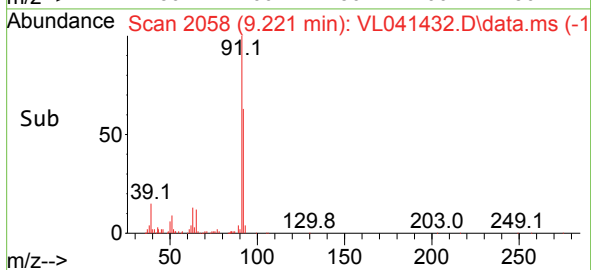
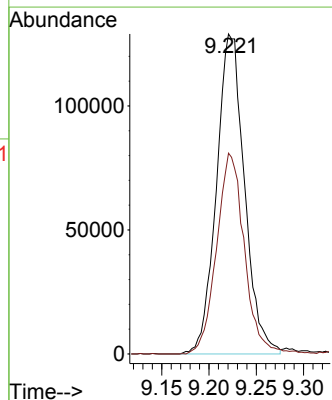
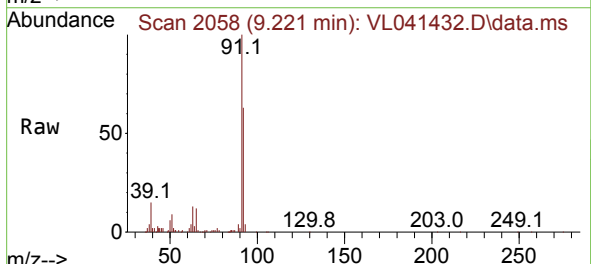
Instrument :
MSVOA_L
ClientSampleId :

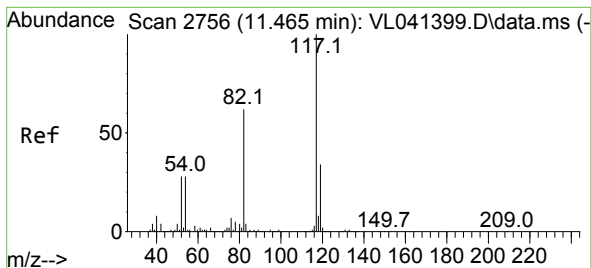
Tgt Ion: 57 Resp: 23830
Ion Ratio Lower Upper
57 100
41 96.5 27.0 40.6#
56 78.7 25.2 37.8#



#53
Toluene
Concen: 1.090 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041432.D
Acq: 29 Jul 2024 16:59

Tgt Ion: 91 Resp: 265683
Ion Ratio Lower Upper
91 100
92 62.4 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

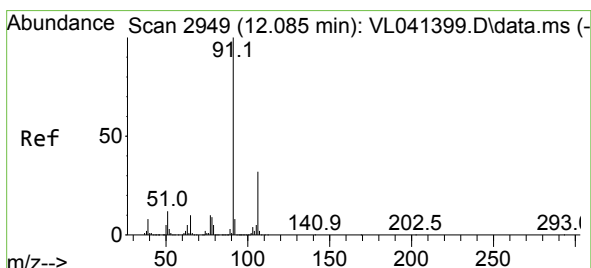
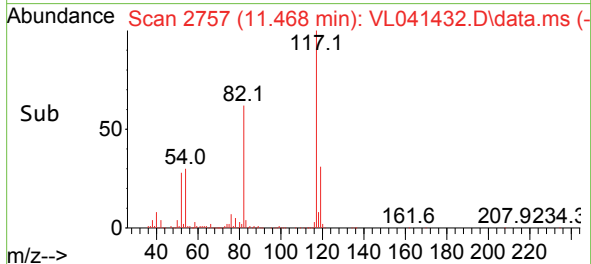
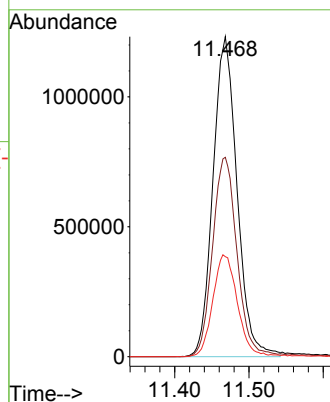
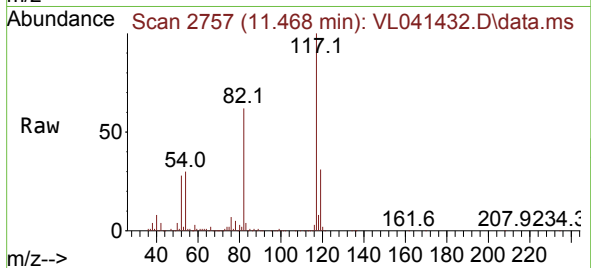
Tgt Ion:117 Resp: 2770072

Ion Ratio Lower Upper

117 100

82 64.5 51.0 76.6

119 33.2 45.2 67.8#



#58

Ethyl Benzene

Concen: 0.057 ppbv

RT: 12.095 min Scan# 2952

Delta R.T. 0.010 min

Lab File: VL041432.D

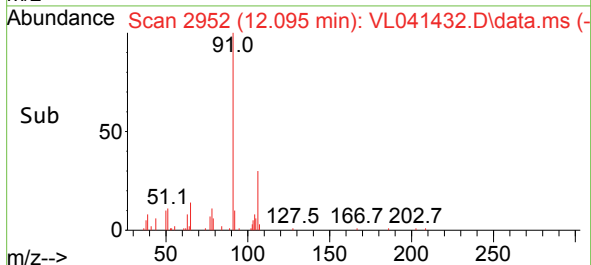
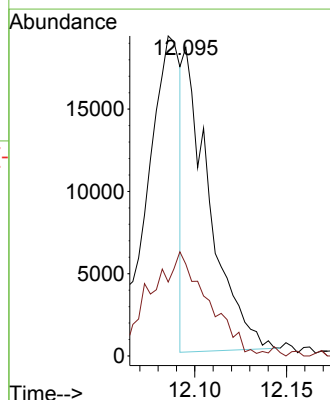
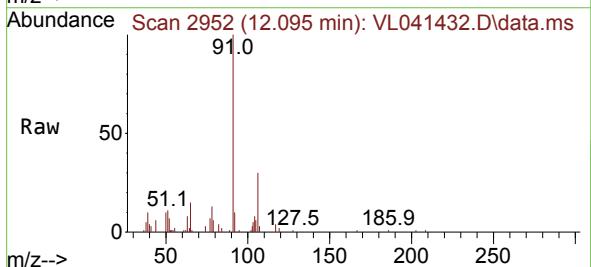
Acq: 29 Jul 2024 16:59

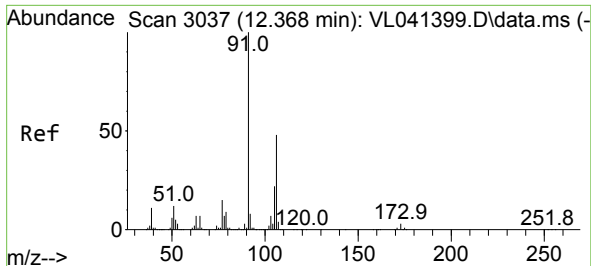
Tgt Ion: 91 Resp: 18197

Ion Ratio Lower Upper

91 100

106 29.5 25.8 38.8





#59

m/p-Xylene

Concen: 0.067 ppbv

RT: 12.384 min Scan# 3042

Delta R.T. 0.016 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

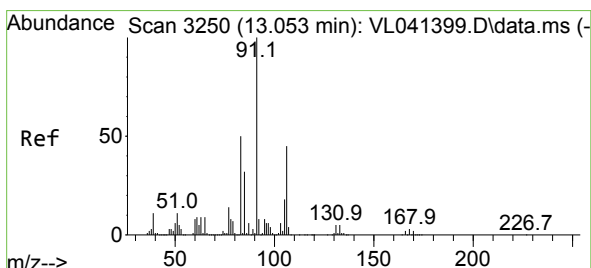
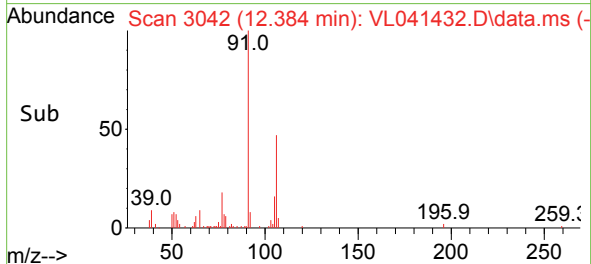
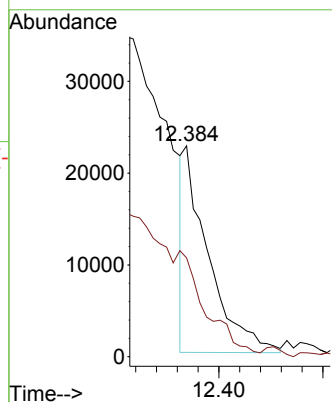
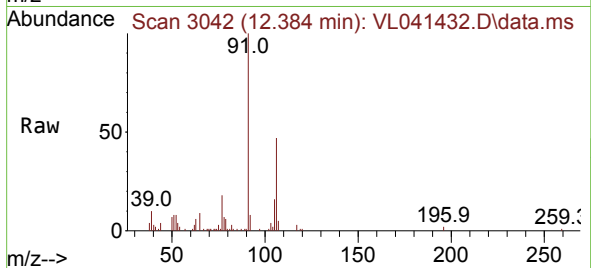
ClientSampleId :

Tgt Ion: 91 Resp: 18588

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#



#60

o-Xylene

Concen: 0.088 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041432.D

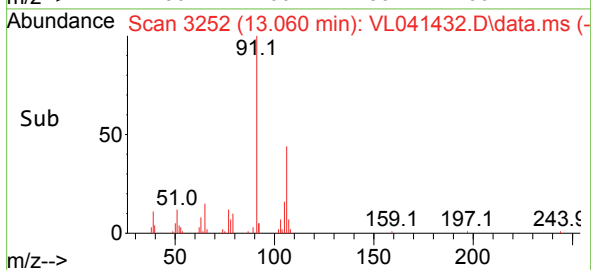
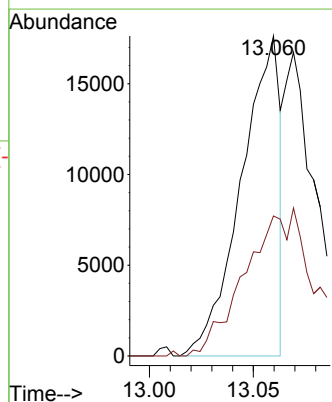
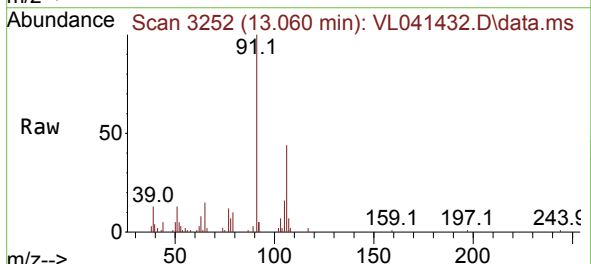
Acq: 29 Jul 2024 16:59

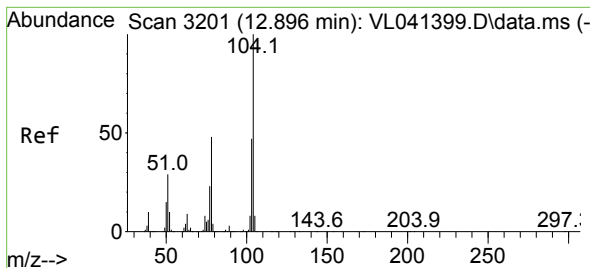
Tgt Ion: 91 Resp: 22838

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#





#61

Styrene

Concen: 0.035 ppbv

RT: 12.902 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041432.D

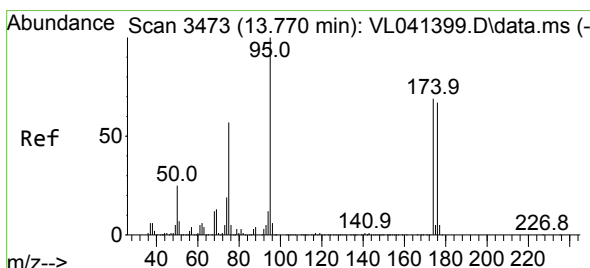
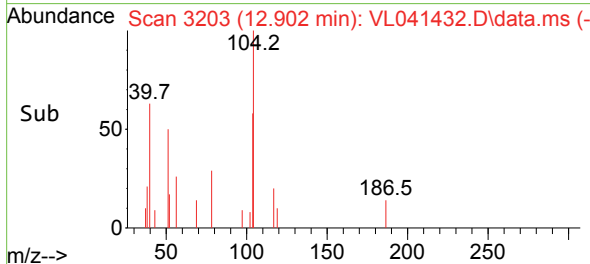
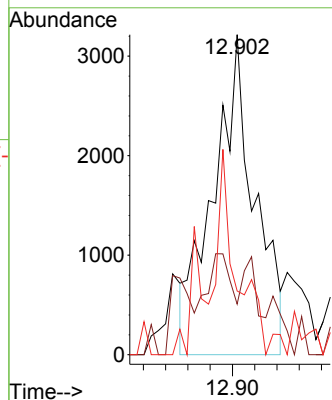
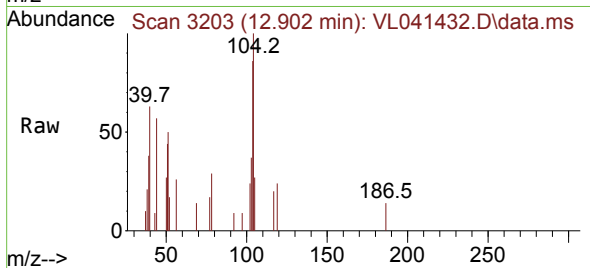
Acq: 29 Jul 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:104	Resp:	4152
Ion Ratio	Lower	Upper
104	100	
78	55.2	40.8 61.2
103	49.0	38.2 57.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.949 ppbv

RT: 13.780 min Scan# 3476

Delta R.T. 0.006 min

Lab File: VL041432.D

Acq: 29 Jul 2024 16:59

Tgt Ion: 95	Resp: 2120939
Ion Ratio	Lower Upper
95	100
174	72.0 56.3 84.5
175	5.2 4.0 6.0

