

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080524\
 Data File : VL041499.D
 Acq On : 5 Aug 2024 13:50
 Operator : SY/MD
 Sample : P3454-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

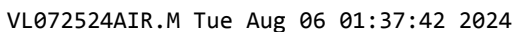
Quant Time: Aug 06 01:37:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

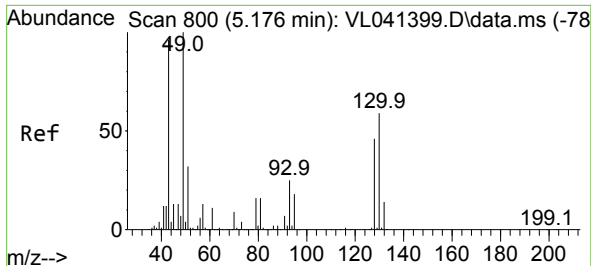
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.189	49	1115379	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3028020	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2787787	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2139112	9.971	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
4) Chloromethane	2.813	50	287317	4.068	ppbv	100
5) Vinyl Chloride	2.919	62	21567	0.310	ppbv	97
9) Propene	2.697	41	4116	0.067	ppbv #	78
11) Trichlorofluoromethane	3.562	101	701750	4.118	ppbv	99
13) Ethanol	3.253	45	1515	0.278	ppbv #	41
15) Acetone	3.488	43	52404	0.414	ppbv	94
20) Methylene Chloride	3.932	84	85875	1.817	ppbv	95
23) Vinyl Acetate	4.629	43	3884	0.040	ppbv #	67
25) Ethyl Acetate	5.208	43	721934	2.867	ppbv #	76
26) Hexane	5.208	57	1016976	9.737	ppbv #	38
34) 2-Butanone	5.208	43	716210	4.890	ppbv #	54
36) Benzene	6.365	78	1948352	8.806	ppbv	100
37) 1,2-Dichloroethane	5.803	62	566439	4.574	ppbv	100
39) 1,2-Dichloropropane	7.066	63	374234	4.418	ppbv	97
41) Tetrahydrofuran	5.247	42	4307	0.051	ppbv #	37
57) Chlorobenzene	11.520	112	777739	3.918	ppbv	98
58) Ethyl Benzene	12.082	91	1680650	5.230	ppbv	96
59) m/p-Xylene	12.082	91	1680650	6.059	ppbv #	78
64) n-propylbenzene	15.343	120	1021381	9.794	ppbv #	1
65) tert-Butylbenzene	16.101	119	213018	0.591	ppbv #	62
66) Benzyl Chloride	16.101	91	233453	10.102	ppbv #	66
72) 4-Ethyltoluene	15.346	105	2231410	7.223	ppbv #	82
73) 1,3,5-Trimethylbenzene	15.346	105	2231410	8.385	ppbv	98
74) 1,2,4-Trimethylbenzene	16.101	105	1954023	6.315	ppbv #	71

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

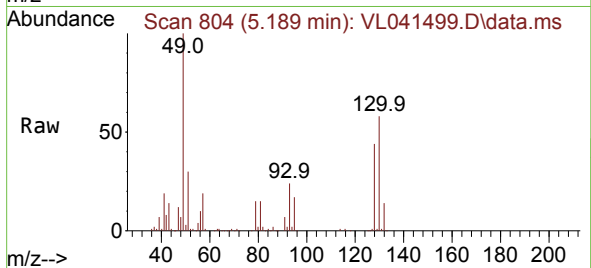
Quant Time: Aug 06 01:37:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Aug 06 01:32:58 2024
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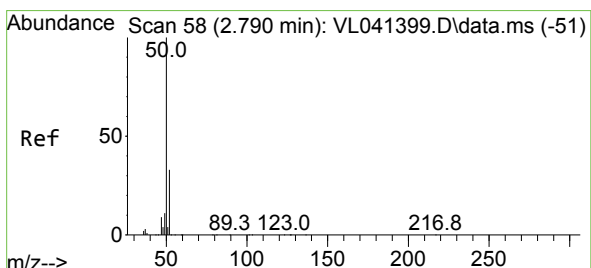
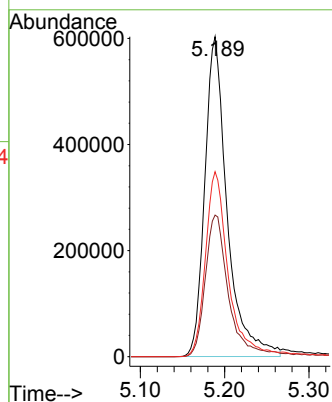
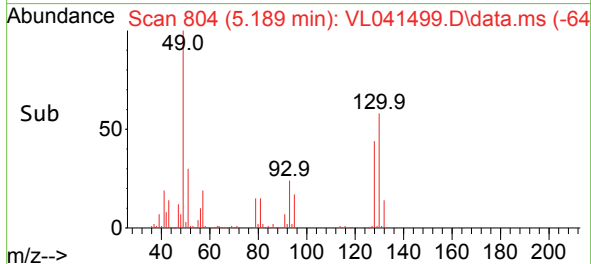


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Instrument :
MSVOA_L
ClientSampleId :

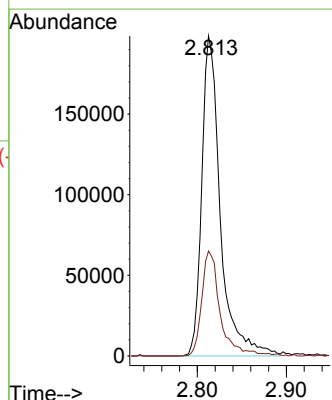
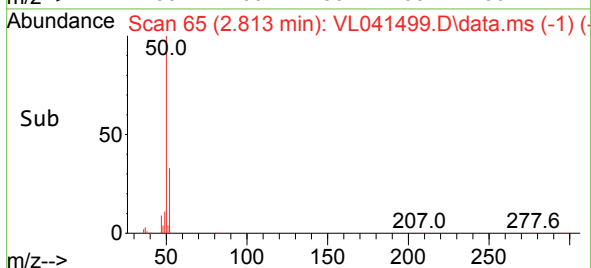
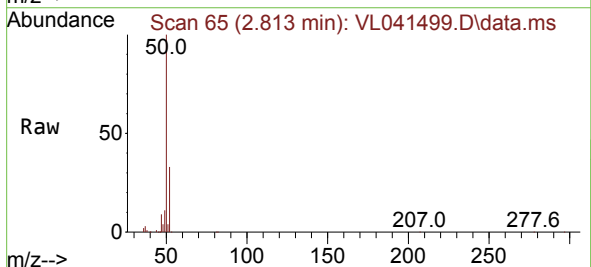


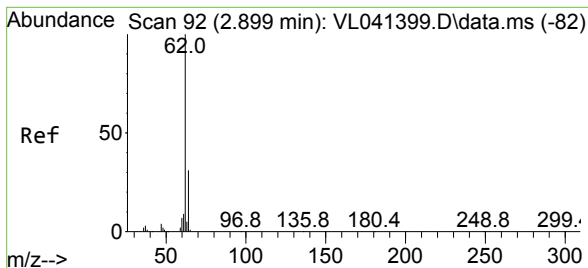
Tgt Ion: 49 Resp: 1115379
Ion Ratio Lower Upper
49 100
128 46.8 23.8 71.4
130 61.1 30.8 92.4



#4
Chloromethane
Concen: 4.068 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Tgt Ion: 50 Resp: 287317
Ion Ratio Lower Upper
50 100
52 32.8 26.1 39.1

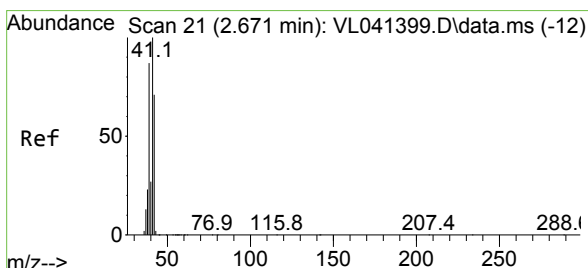
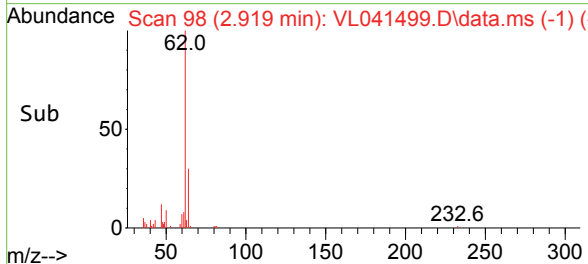
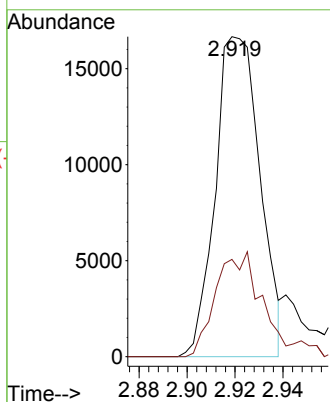
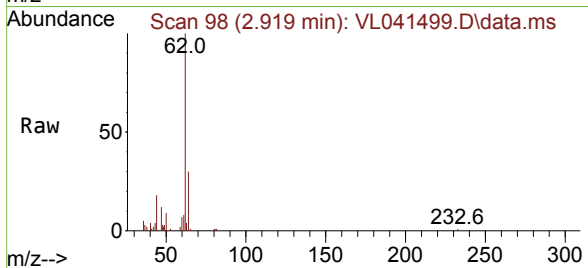




#5
 Vinyl Chloride
 Concen: 0.310 ppbv
 RT: 2.919 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VL041499.D
 Acq: 5 Aug 2024 13:50

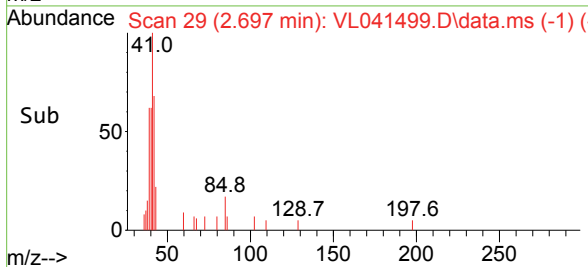
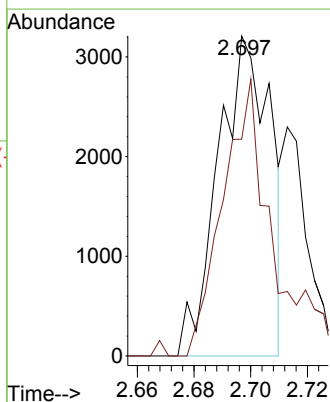
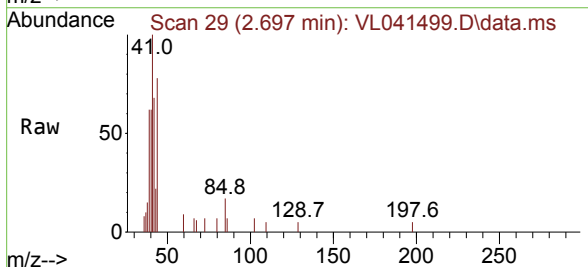
Instrument :
 MSVOA_L
 ClientSampleId :

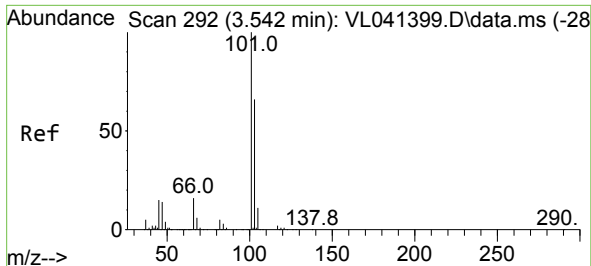
Tgt Ion: 62 Resp: 21567
 Ion Ratio Lower Upper
 62 100
 64 29.3 25.0 37.4



#9
 Propene
 Concen: 0.067 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: VL041499.D
 Acq: 5 Aug 2024 13:50

Tgt Ion: 41 Resp: 4116
 Ion Ratio Lower Upper
 41 100
 42 88.1 55.9 83.9#

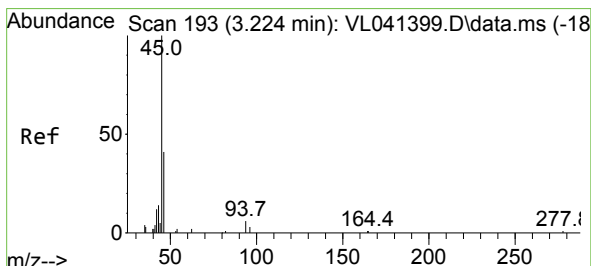
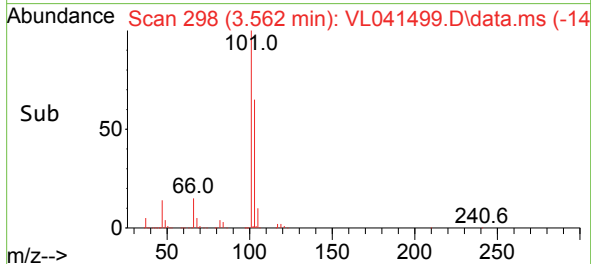
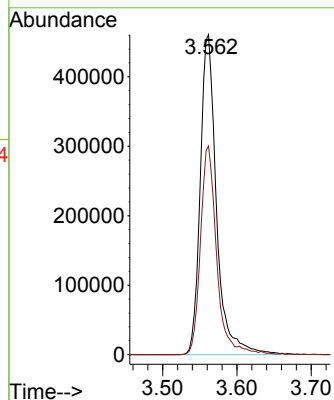
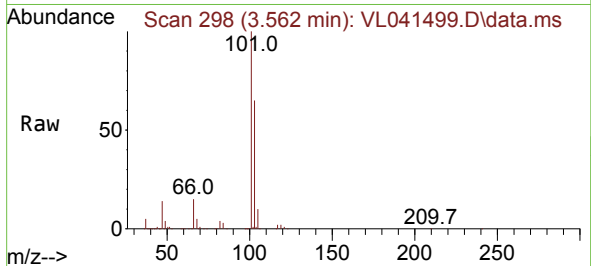




#11
Trichlorofluoromethane
Concen: 4.118 ppbv
RT: 3.562 min Scan# 201
Delta R.T. 0.000 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

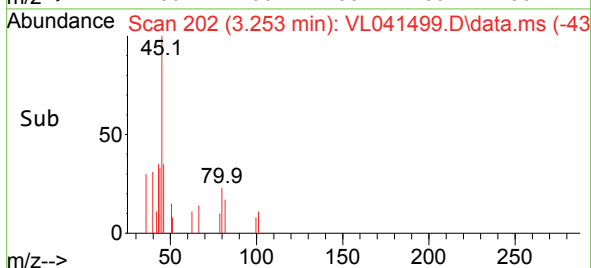
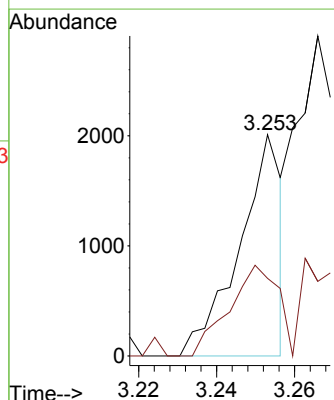
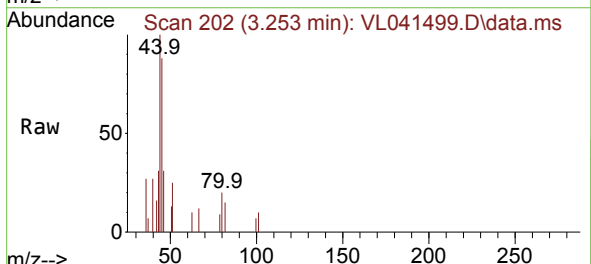
Instrument :
MSVOA_L
ClientSampleId :

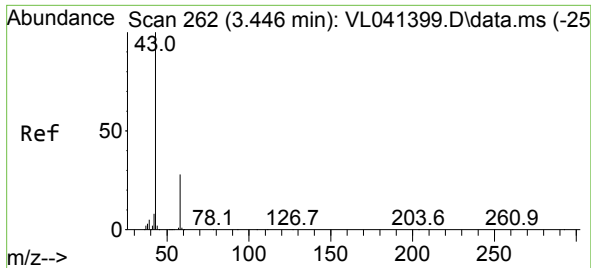
Tgt Ion:101 Resp: 701750
Ion Ratio Lower Upper
101 100
103 65.2 52.6 79.0



#13
Ethanol
Concen: 0.278 ppbv
RT: 3.253 min Scan# 202
Delta R.T. 0.010 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Tgt Ion: 45 Resp: 1515
Ion Ratio Lower Upper
45 100
46 0.0 13.4 53.4#





#15

Acetone

Concen: 0.414 ppbv

RT: 3.488 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Instrument :

MSVOA_L

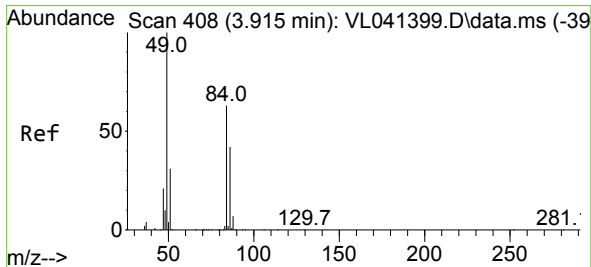
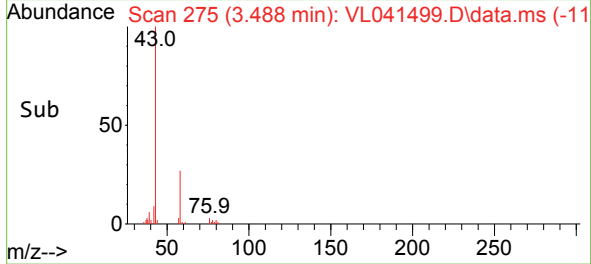
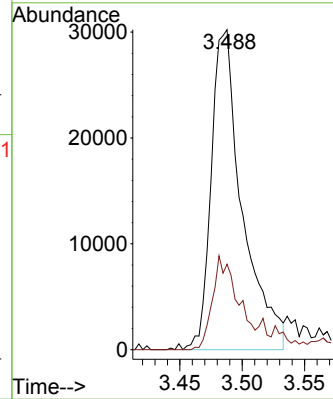
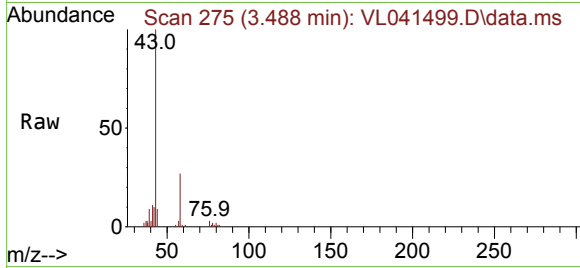
ClientSampleId :

Tgt Ion: 43 Resp: 52404

Ion Ratio Lower Upper

43 100

58 30.1 21.4 32.2



#20

Methylene Chloride

Concen: 1.817 ppbv

RT: 3.932 min Scan# 413

Delta R.T. 0.000 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Tgt Ion: 84 Resp: 85875

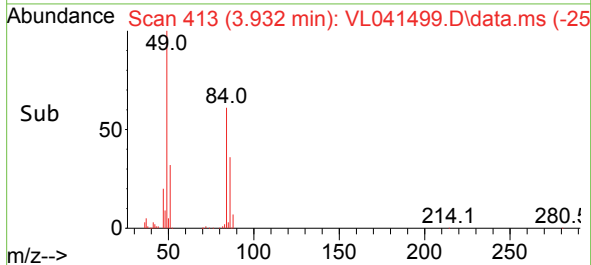
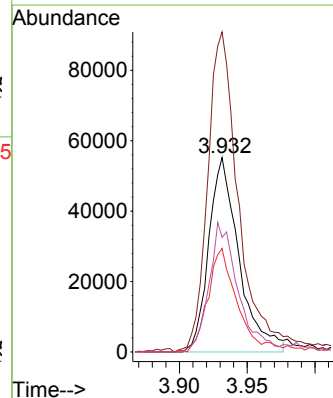
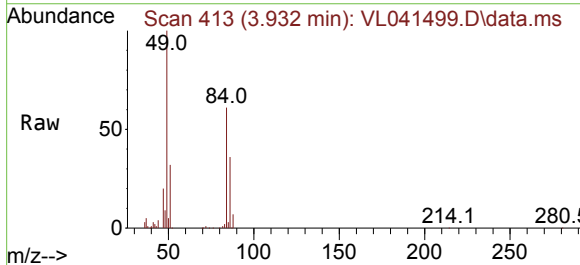
Ion Ratio Lower Upper

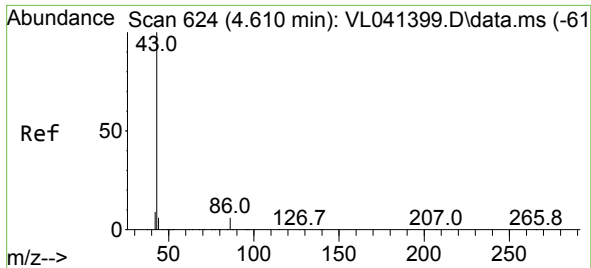
84 100

49 162.9 126.6 190.0

51 52.5 38.6 58.0

86 59.0 53.0 79.4



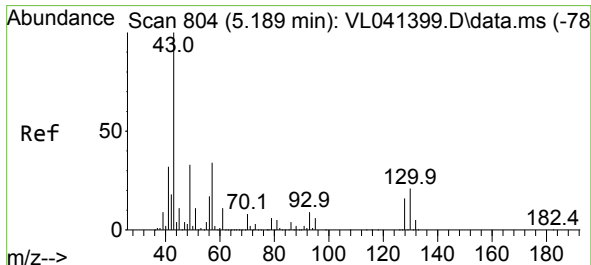
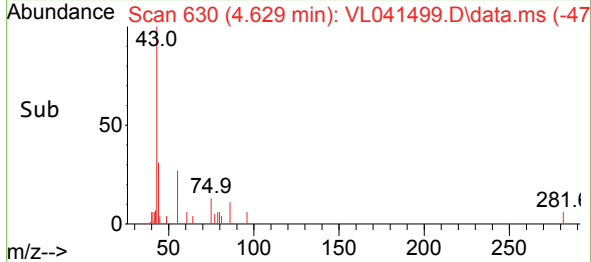
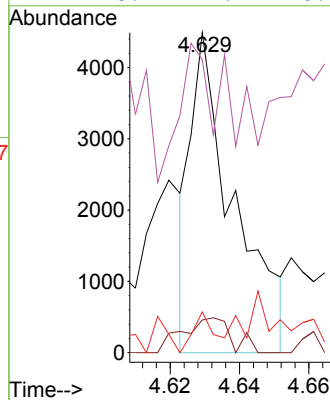
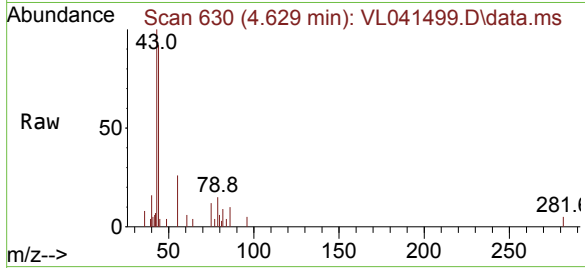


#23
 Vinyl Acetate
 Concen: 0.040 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041499.D
 Acq: 5 Aug 2024 13:50

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 3884

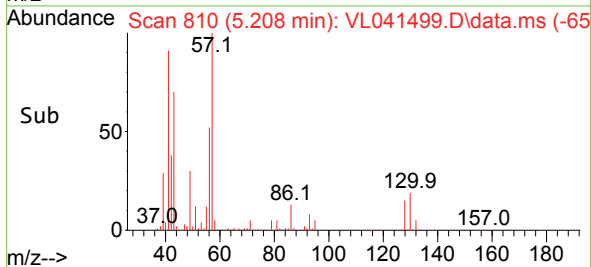
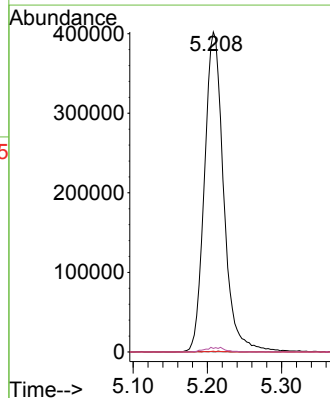
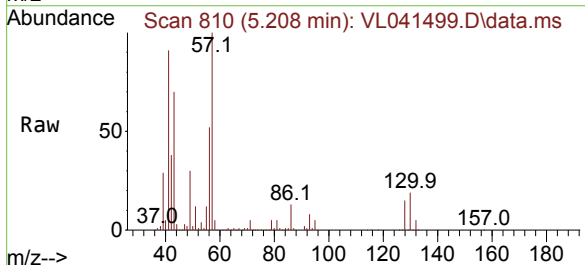
Ion	Ratio	Lower	Upper
43	100		
86	13.4	4.6	6.8#
42	16.7	7.9	11.9#
44	28.4	4.2	6.4#

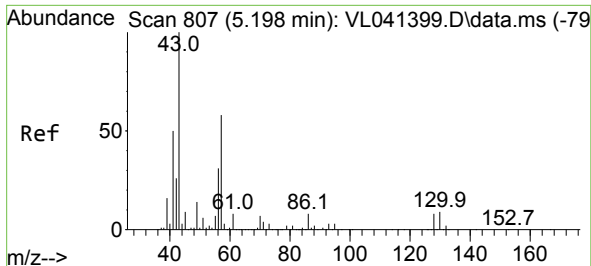


#25
 Ethyl Acetate
 Concen: 2.867 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.007 min
 Lab File: VL041499.D
 Acq: 5 Aug 2024 13:50

Tgt Ion: 43 Resp: 721934

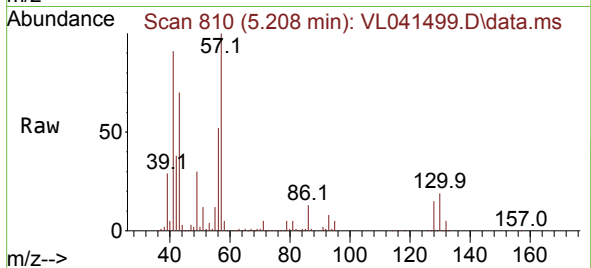
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.5	12.7#
61	0.2	8.0	12.0#
70	1.5	5.9	8.9#



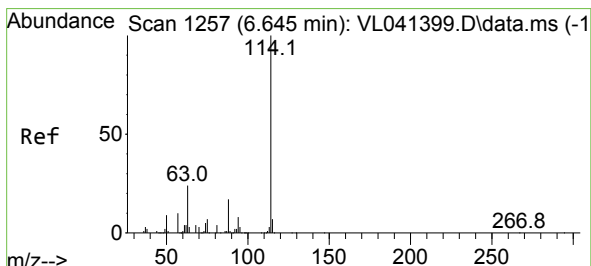
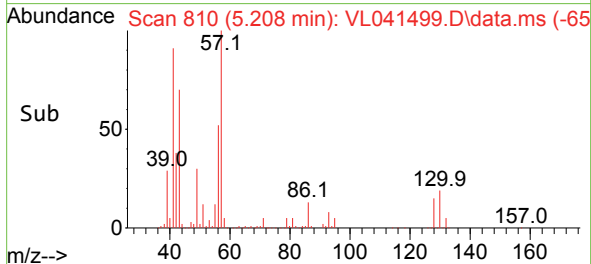
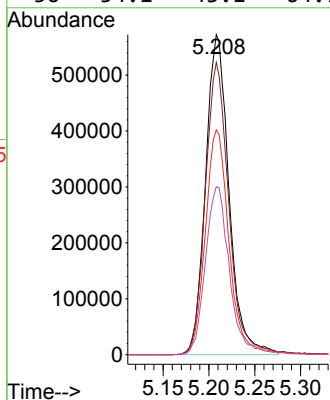


#26
Hexane
Concen: 9.737 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Instrument :
MSVOA_L
ClientSampleId :

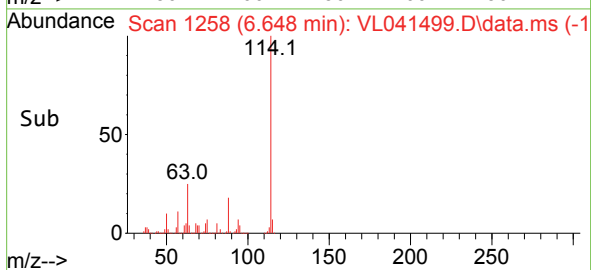
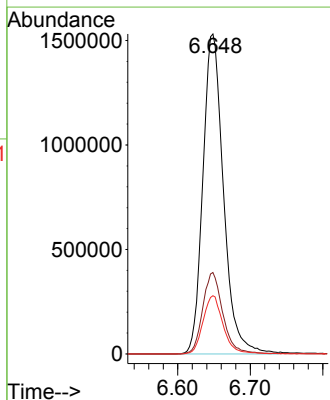
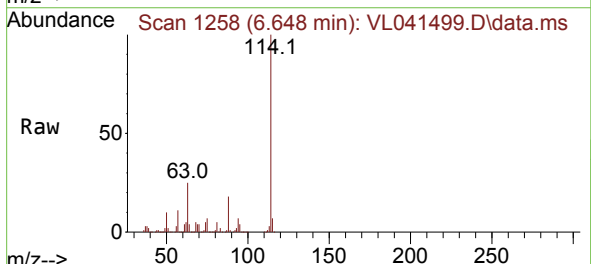


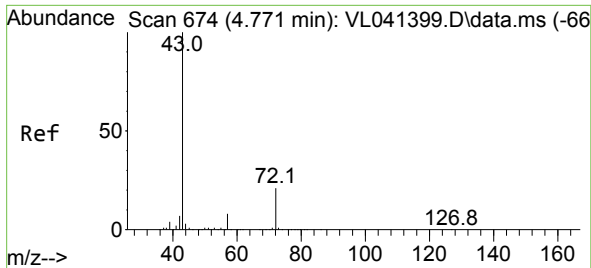
Tgt Ion: 57 Resp: 1016976
Ion Ratio Lower Upper
57 100
41 92.5 74.0 111.0
43 71.4 193.6 290.4#
56 54.1 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Tgt Ion:114 Resp: 3028020
Ion Ratio Lower Upper
114 100
63 25.1 20.3 30.5
88 17.8 14.3 21.5

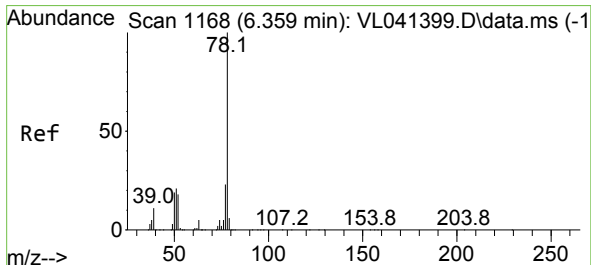
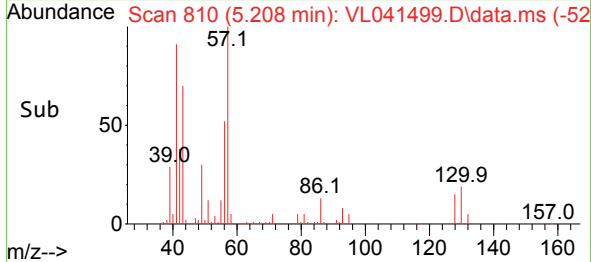
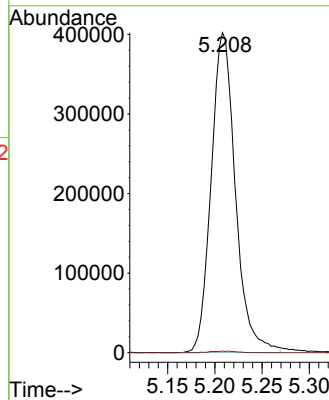
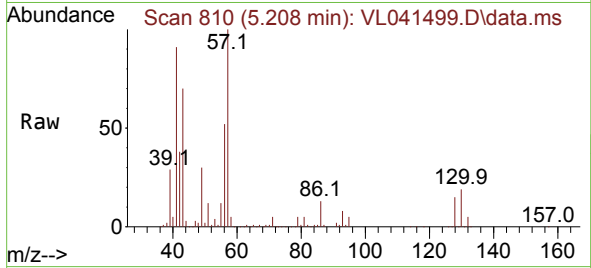




#34
2-Butanone
Concen: 4.890 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.425 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

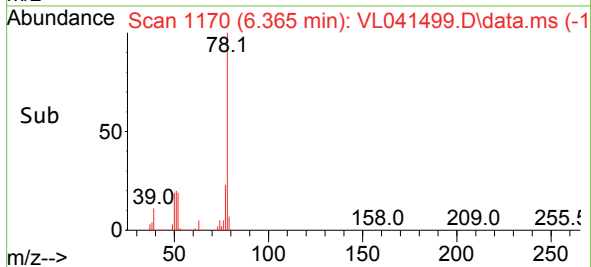
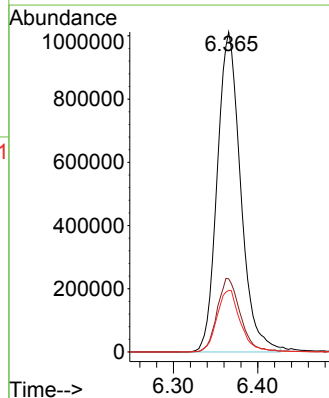
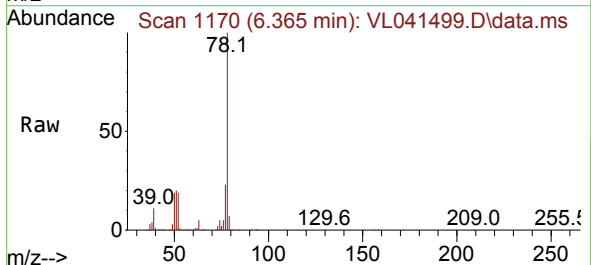
Instrument :
MSVOA_L
ClientSampleId :

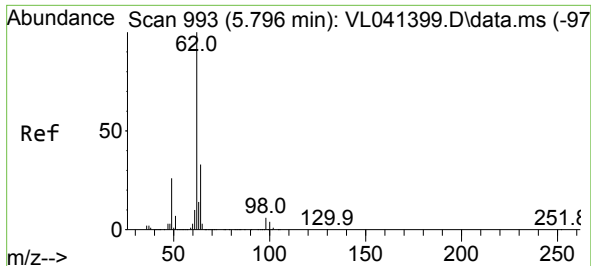
Tgt Ion: 43 Resp: 716210
Ion Ratio Lower Upper
43 100
72 0.0 17.3 25.9#



#36
Benzene
Concen: 8.806 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Tgt Ion: 78 Resp: 1948352
Ion Ratio Lower Upper
78 100
77 22.8 18.1 27.1
50 19.2 15.5 23.3

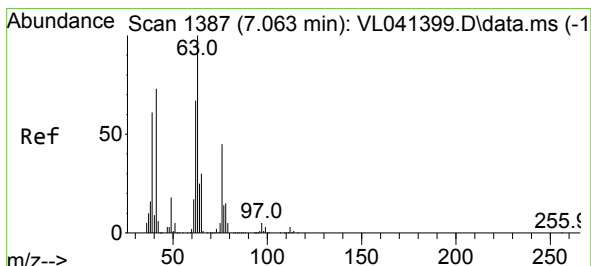
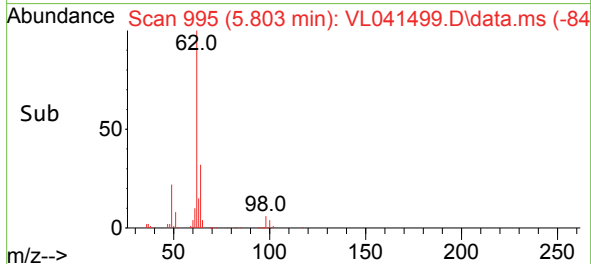
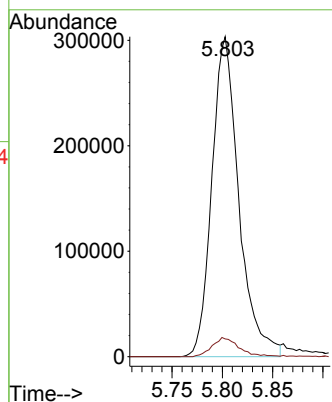
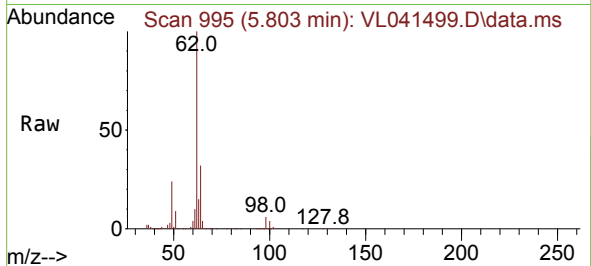




#37
1,2-Dichloroethane
Concen: 4.574 ppbv
RT: 5.803 min Scan# 995
Delta R.T. -0.003 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

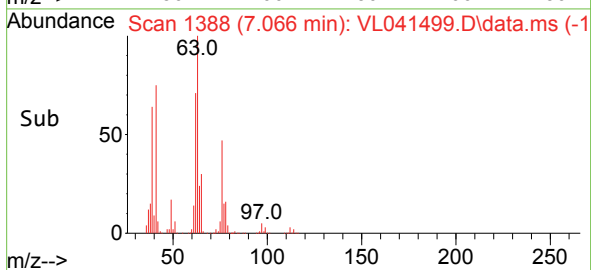
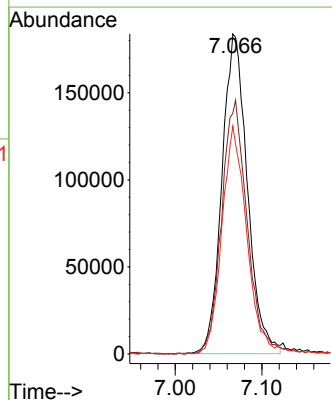
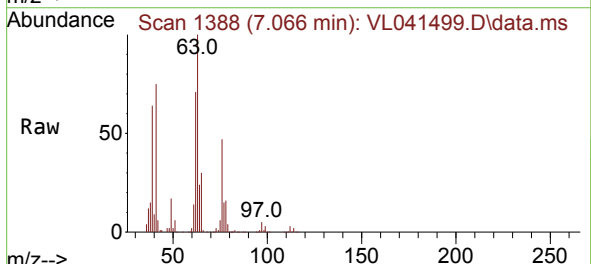
Instrument :
MSVOA_L
ClientSampleId :

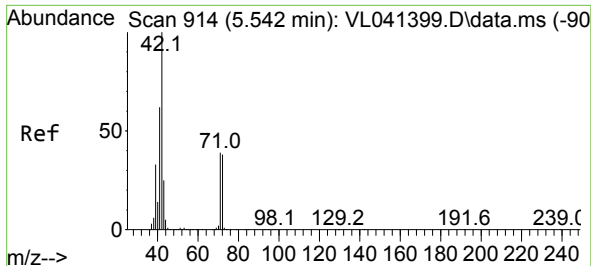
Tgt Ion: 62 Resp: 566439
Ion Ratio Lower Upper
62 100
98 6.0 5.0 7.4



#39
1,2-Dichloropropane
Concen: 4.418 ppbv
RT: 7.066 min Scan# 1388
Delta R.T. -0.003 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Tgt Ion: 63 Resp: 374234
Ion Ratio Lower Upper
63 100
41 75.0 58.3 87.5
62 71.0 53.9 80.9





#41

Tetrahydrofuran

Concen: 0.051 ppbv

RT: 5.247 min Scan# 81

Delta R.T. -0.305 min

Lab File: VL041499.D

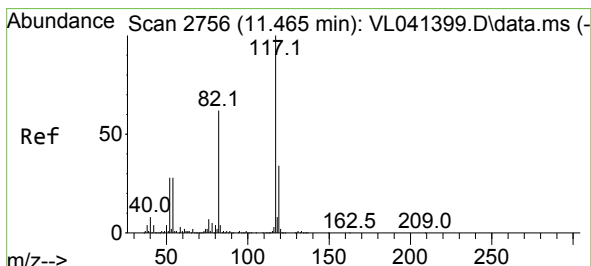
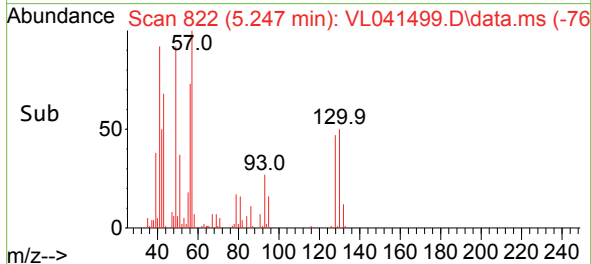
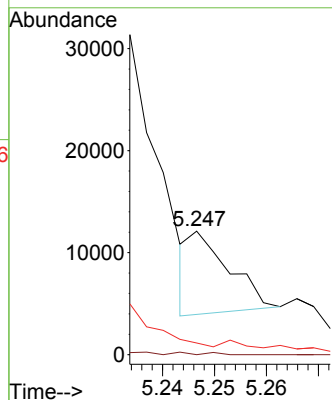
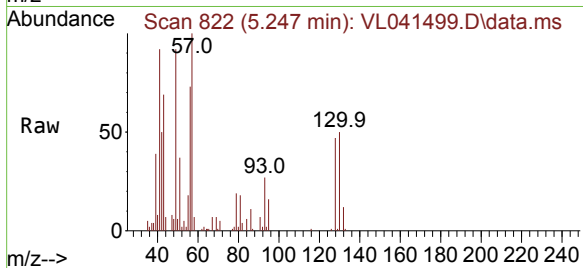
Acq: 5 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 42	Resp: 4307
Ion Ratio	Lower Upper
42	100
72	0.0 31.2 46.8#
71	0.0 30.5 45.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

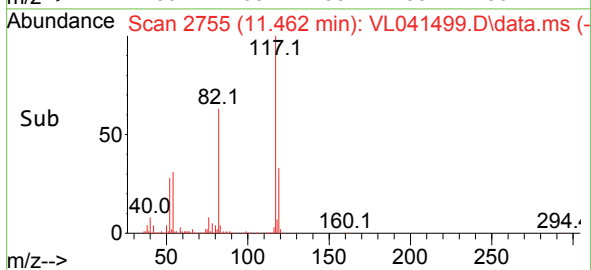
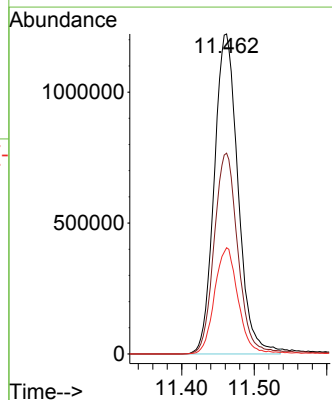
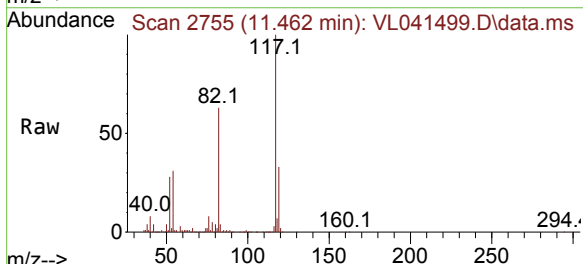
RT: 11.462 min Scan# 2755

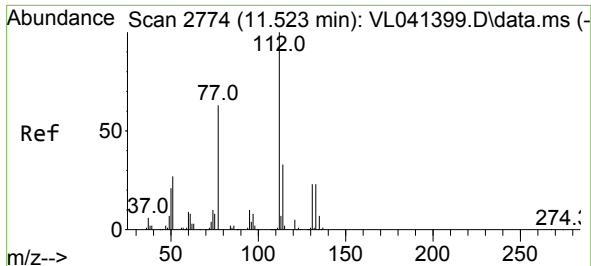
Delta R.T. 0.000 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Tgt Ion: 117	Resp: 2787787
Ion Ratio	Lower Upper
117	100
82	64.2 51.0 76.6
119	33.5 45.2 67.8#





#57

Chlorobenzene

Concen: 3.918 ppbv

RT: 11.520 min Scan# 21

Delta R.T. 0.000 min

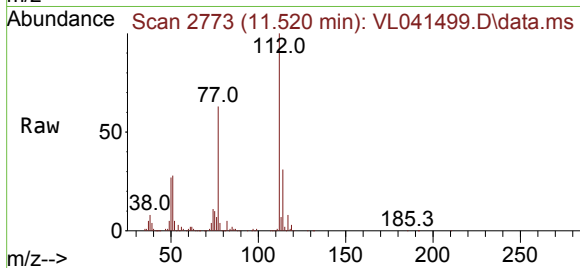
Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :



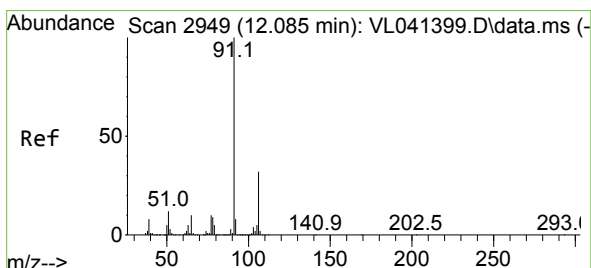
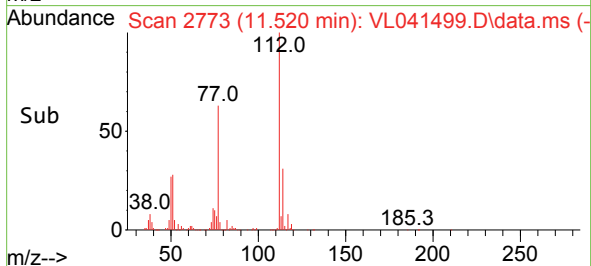
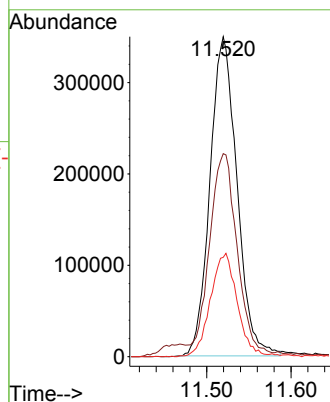
Tgt Ion:112 Resp: 777739

Ion Ratio Lower Upper

112 100

77 62.4 51.1 76.7

114 30.9 29.5 36.1



#58

Ethyl Benzene

Concen: 5.230 ppbv

RT: 12.082 min Scan# 2948

Delta R.T. -0.003 min

Lab File: VL041499.D

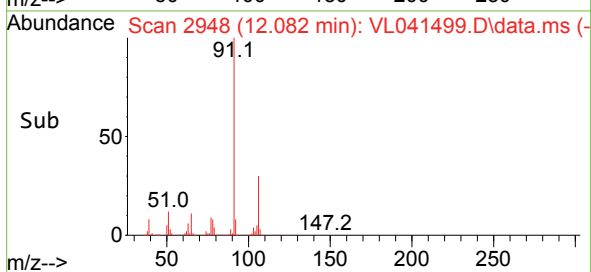
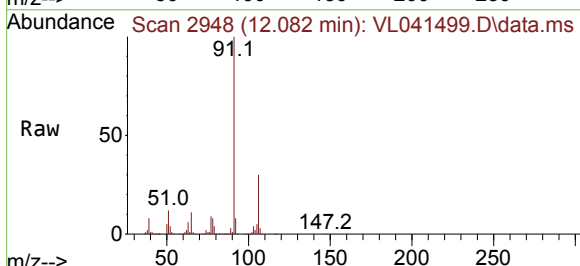
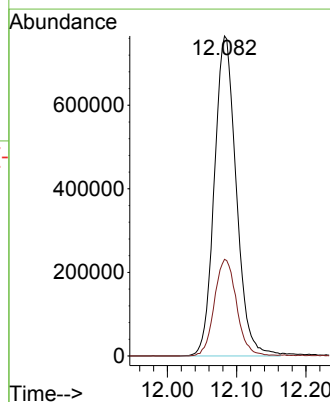
Acq: 5 Aug 2024 13:50

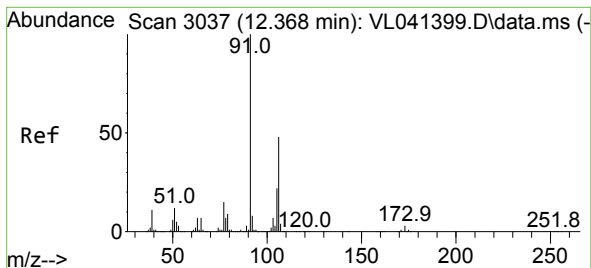
Tgt Ion: 91 Resp: 1680650

Ion Ratio Lower Upper

91 100

106 30.2 25.8 38.8





#59

m/p-Xylene

Concen: 6.059 ppbv

RT: 12.082 min Scan# 29

Delta R.T. -0.286 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Instrument :

MSVOA_L

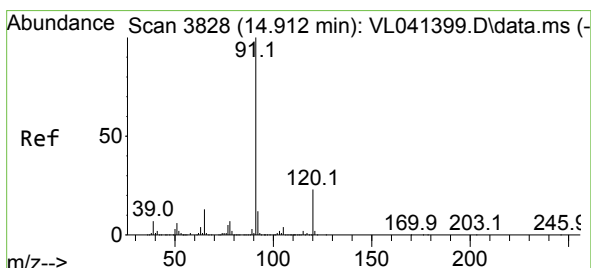
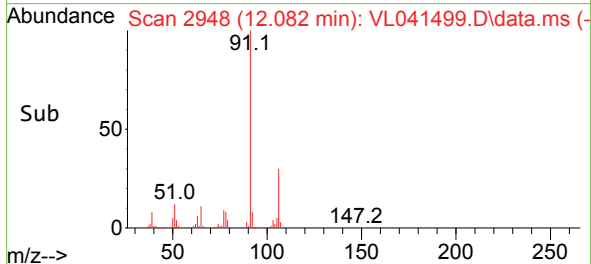
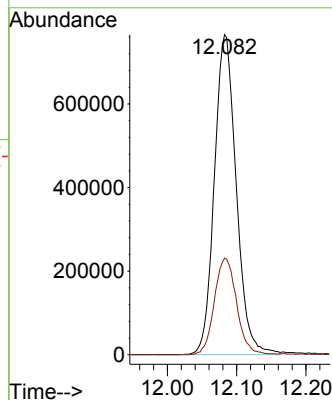
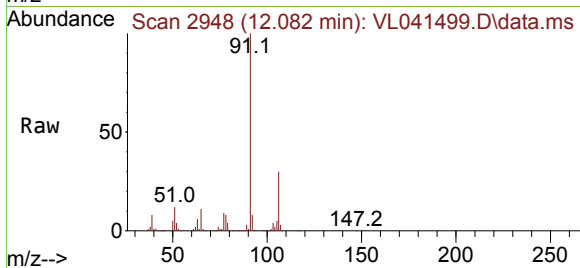
ClientSampleId :

Tgt Ion: 91 Resp: 1680650

Ion Ratio Lower Upper

91 100

106 30.7 36.3 54.5#



#64

n-propylbenzene

Concen: 9.794 ppbv

RT: 15.343 min Scan# 3962

Delta R.T. 0.431 min

Lab File: VL041499.D

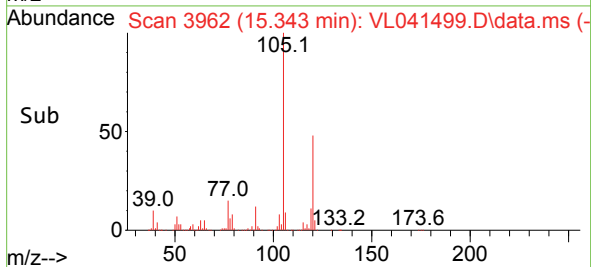
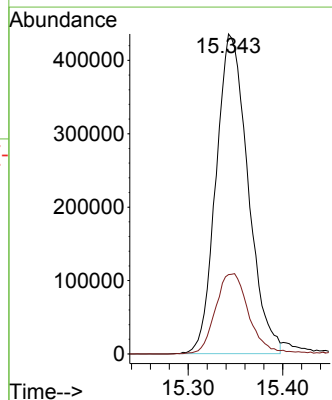
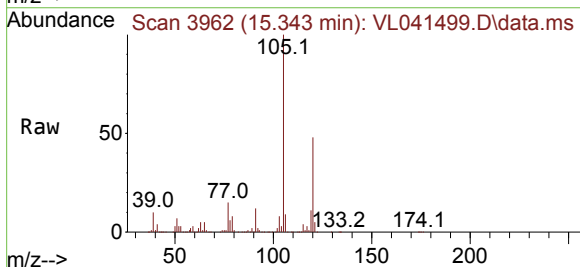
Acq: 5 Aug 2024 13:50

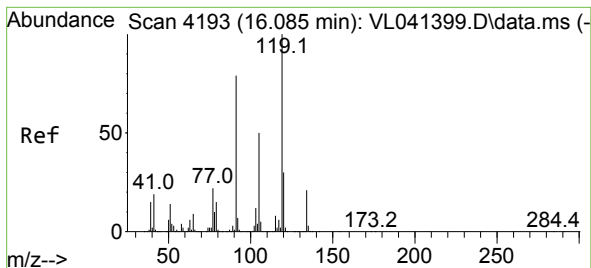
Tgt Ion:120 Resp: 1021381

Ion Ratio Lower Upper

120 100

91 0.0 361.4 542.0#





#65

tert-Butylbenzene

Concen: 0.591 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.019 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :

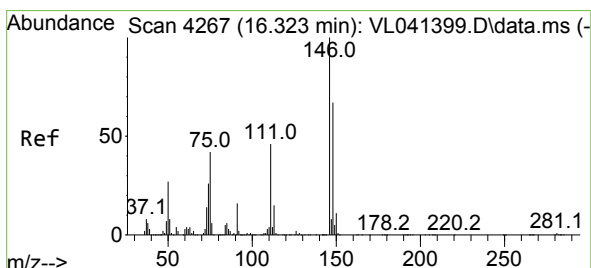
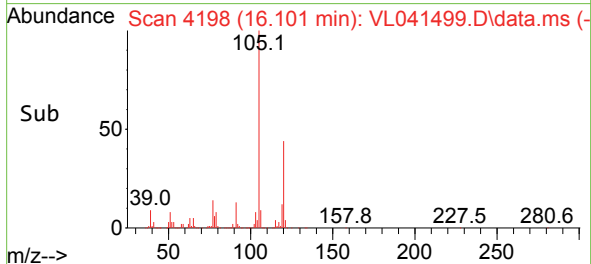
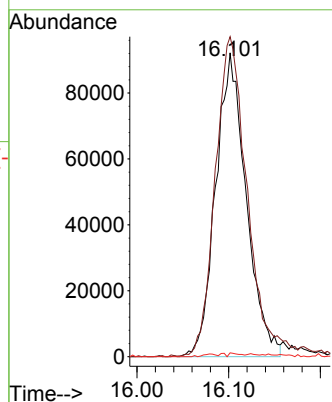
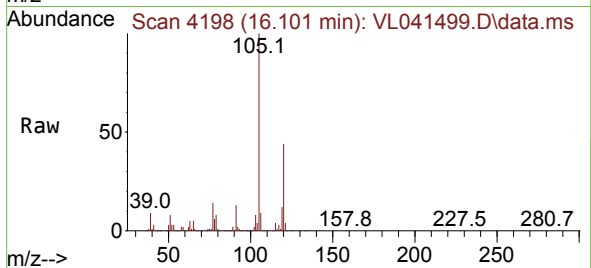
Tgt Ion:119 Resp: 213018

Ion Ratio Lower Upper

119 100

91 113.2 64.2 96.2#

134 1.8 15.7 23.5#



#66

Benzyl Chloride

Concen: 10.102 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. -0.218 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

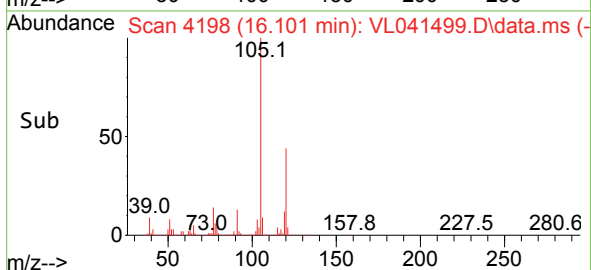
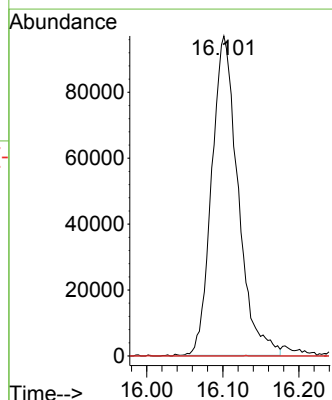
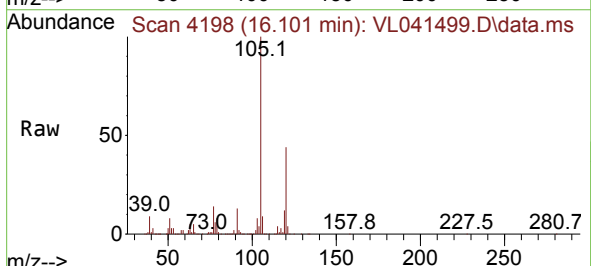
Tgt Ion: 91 Resp: 233453

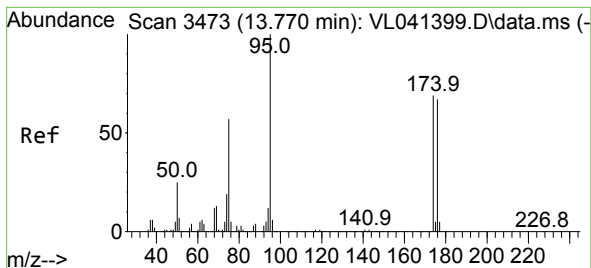
Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.8#

128 0.0 4.4 6.6#

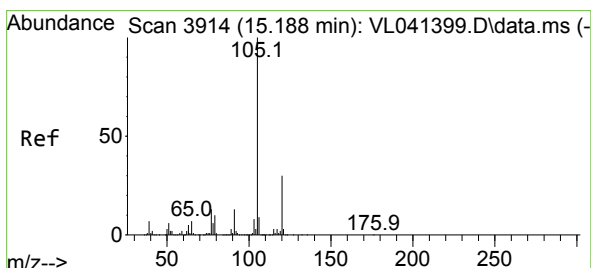
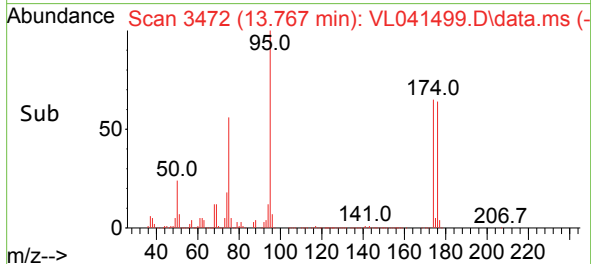
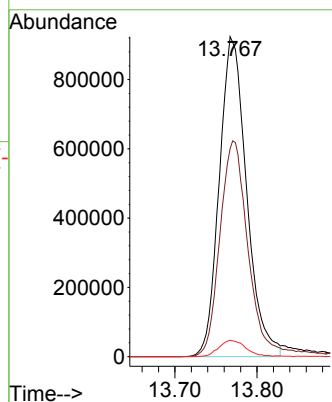
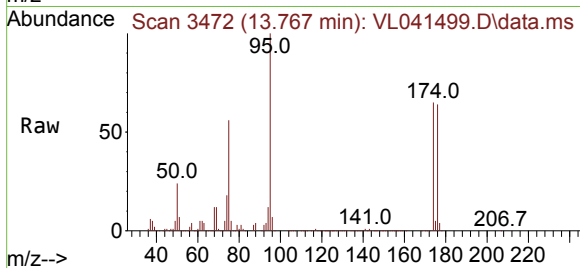




#68
1-Bromo-4-Fluorobenzene
Concen: 9.971 ppbv
RT: 13.767 min Scan# 3473
Delta R.T. 0.000 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

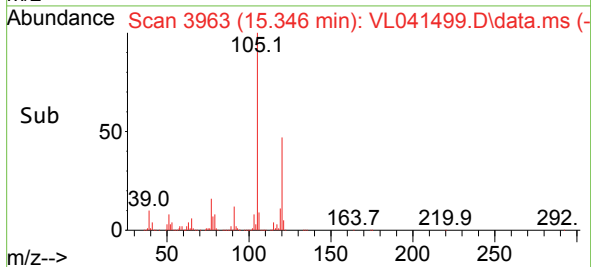
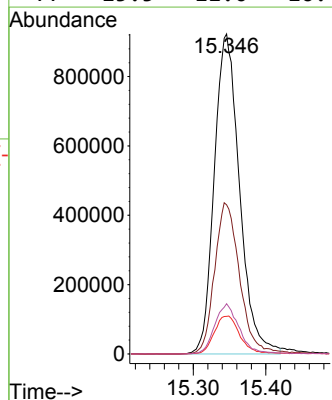
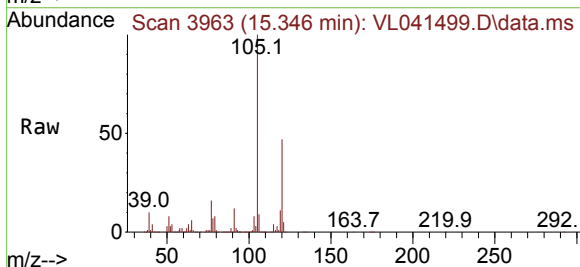
Instrument :
MSVOA_L
ClientSampleId :

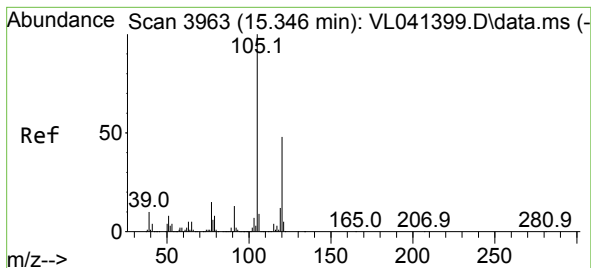
Tgt Ion: 95 Resp: 2139112
Ion Ratio Lower Upper
95 100
174 72.1 56.3 84.5
175 5.2 4.0 6.0



#72
4-Ethyltoluene
Concen: 7.223 ppbv
RT: 15.346 min Scan# 3963
Delta R.T. 0.158 min
Lab File: VL041499.D
Acq: 5 Aug 2024 13:50

Tgt Ion:105 Resp: 2231410
Ion Ratio Lower Upper
105 100
120 47.3 24.2 36.2#
91 12.1 10.4 15.6
77 15.5 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 8.385 ppbv

RT: 15.346 min Scan# 3963

Delta R.T. 0.000 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Instrument :

MSVOA_L

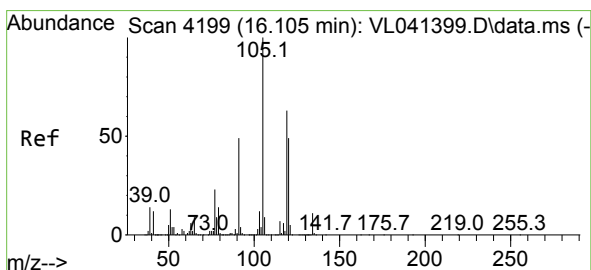
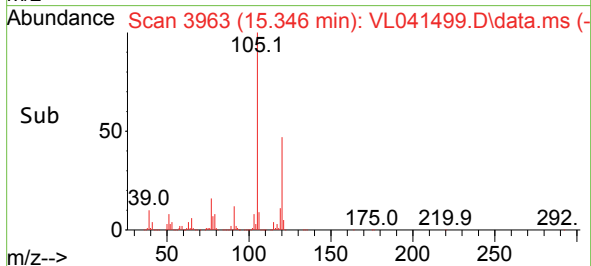
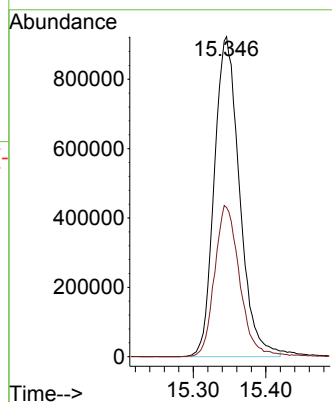
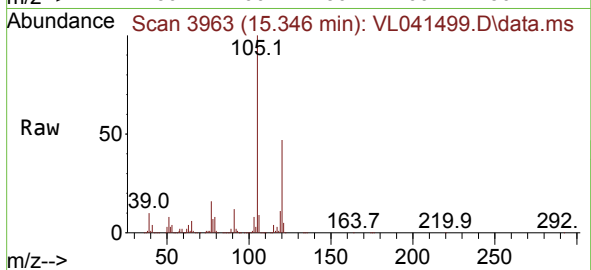
ClientSampleId :

Tgt Ion:105 Resp: 2231410

Ion Ratio Lower Upper

105 100

120 46.6 38.6 57.8



#74

1,2,4-Trimethylbenzene

Concen: 6.315 ppbv

RT: 16.101 min Scan# 4198

Delta R.T. 0.000 min

Lab File: VL041499.D

Acq: 5 Aug 2024 13:50

Tgt Ion:105 Resp: 1954023

Ion Ratio Lower Upper

105 100

120 43.5 39.5 59.3

91 12.6 39.8 59.8#

77 14.3 18.2 27.4#

