

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040656.D
 Acq On : 5 Sep 2023 21:01
 Operator : SY/MD
 Sample : 04261-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:07:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

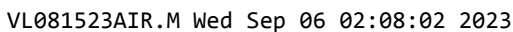
Internal Standards						
1) Bromochloromethane	5.185	49	880340	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2284690	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.465	117	2014794	10.000	ppbv	-0.02

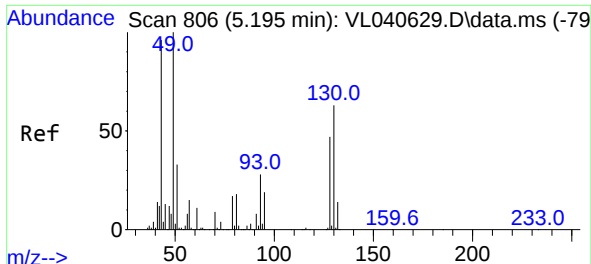
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1635081	10.204	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.713	85	24495	0.129	ppbv	99
3) Chlorodifluoromethane	2.661	51	16283	0.113	ppbv #	88
4) Chloromethane	2.803	50	17028	0.302	ppbv	95
7) Chloroethane	3.182	64	662	0.030	ppbv	92
9) Propene	2.690	41	11900	0.266	ppbv	85
11) Trichlorofluoromethane	3.549	101	10017	0.065	ppbv #	71
13) Ethanol	3.234	45	119031	9.523	ppbv	89
15) Acetone	3.459	43	456783	4.242	ppbv	99
16) 1,3-Butadiene	2.999	39	5533	0.103	ppbv #	36
19) Isopropyl Alcohol	3.581	45	17744	0.260	ppbv #	93
20) Methylene Chloride	3.922	84	911638	17.325	ppbv	98
23) Vinyl Acetate	4.613	43	35451	0.289	ppbv #	86
25) Ethyl Acetate	5.205	43	350241	1.732	ppbv #	76
26) Hexane	5.205	57	516949	5.283	ppbv #	40
29) Chloroform	5.269	83	28260	0.182	ppbv	99
34) 2-Butanone	4.790	43	42697	0.371	ppbv	100
39) 1,2-Dichloropropane	6.648	63	581395	8.408	ppbv #	25
41) Tetrahydrofuran	5.208	42	198025	3.041	ppbv #	47
53) Toluene	9.221	91	16396	0.085	ppbv	89

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

Quant Time: Sep 06 02:07:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Aug 16 05:43:50 2023
Response via : Initial Calibration

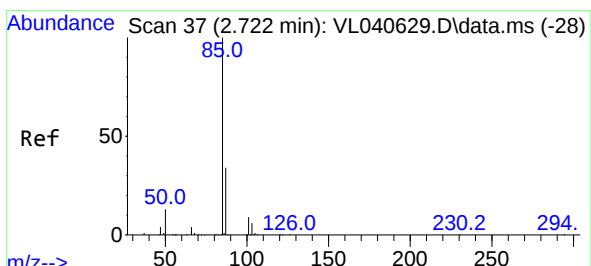
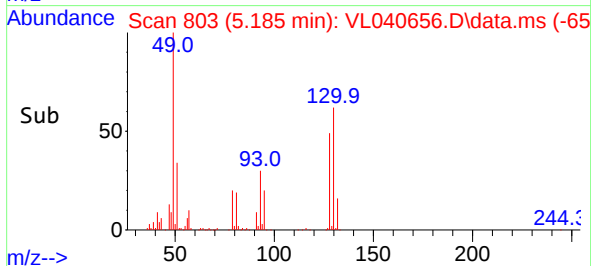
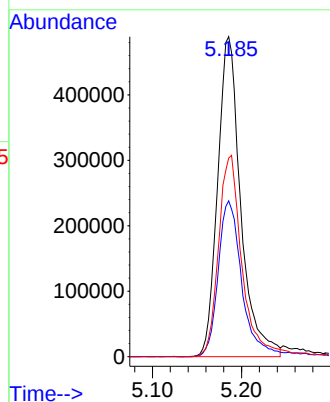
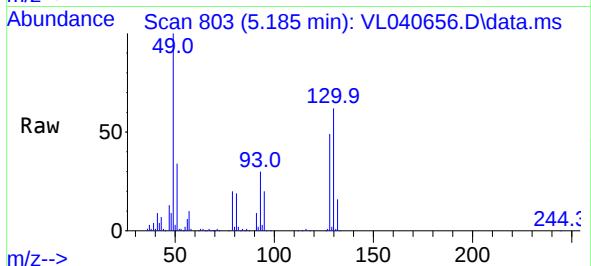




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

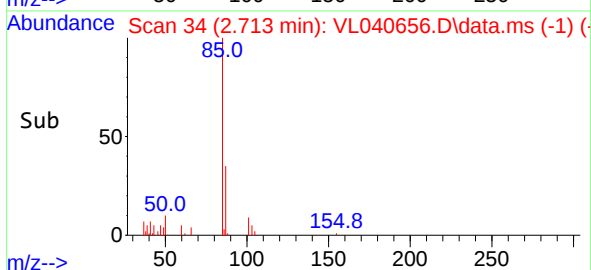
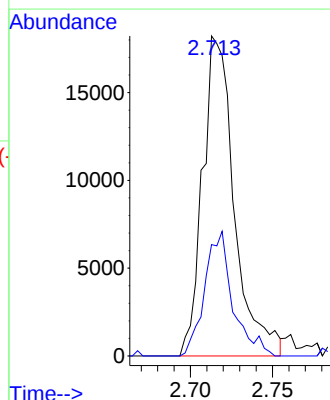
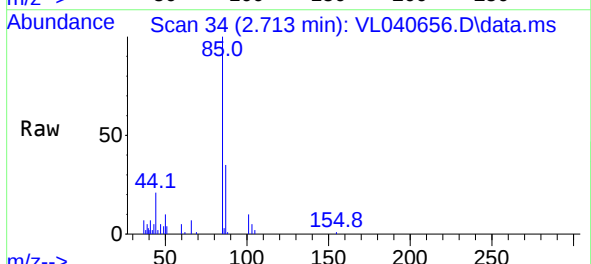
Instrument :
MSVOA_L
ClientSampleId :

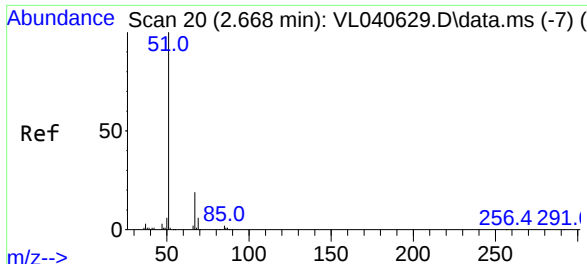
Tgt Ion: 49 Resp: 880340
Ion Ratio Lower Upper
49 100
128 51.4 24.9 74.7
130 66.1 32.2 96.6



#2
Dichlorodifluoromethane
Concen: 0.129 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.010 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Tgt Ion: 85 Resp: 24495
Ion Ratio Lower Upper
85 100
87 34.8 27.5 41.3

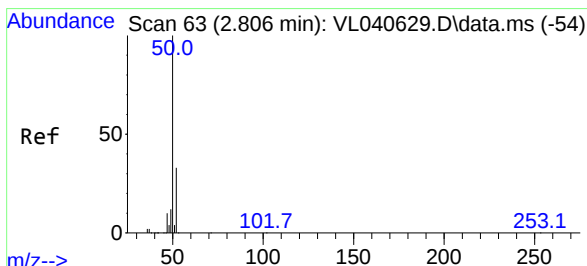
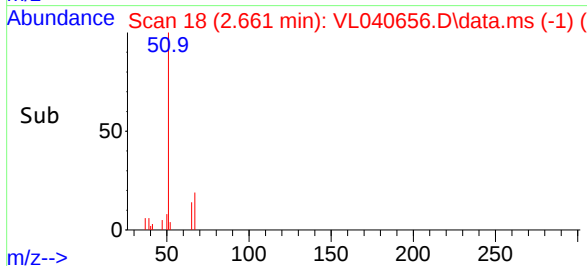
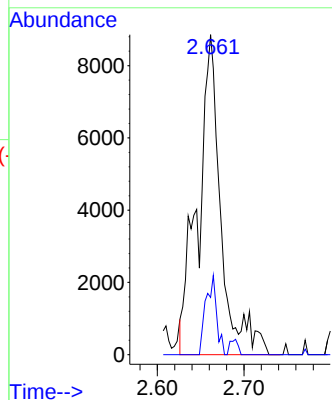
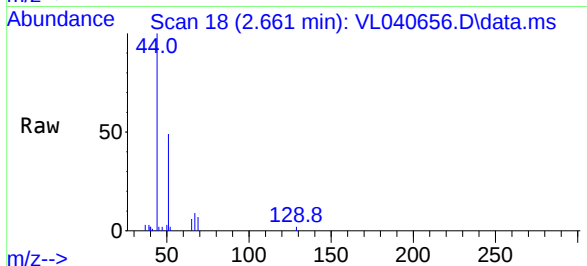




#3
Chlorodifluoromethane
Concen: 0.113 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

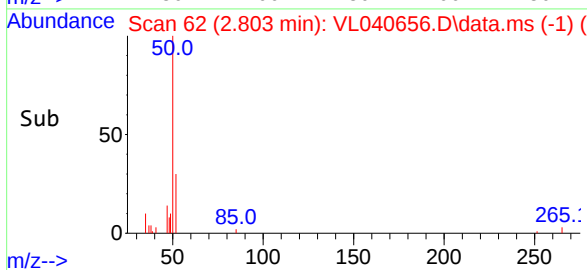
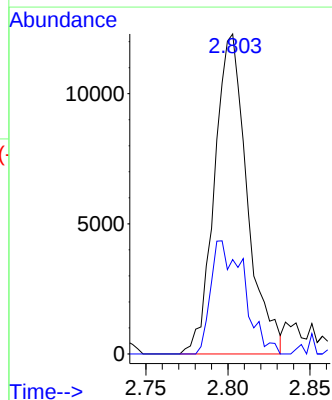
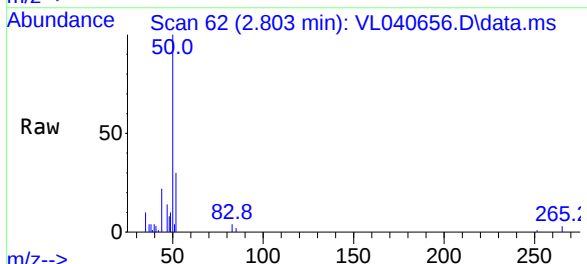
Instrument :
MSVOA_L
ClientSampleId :

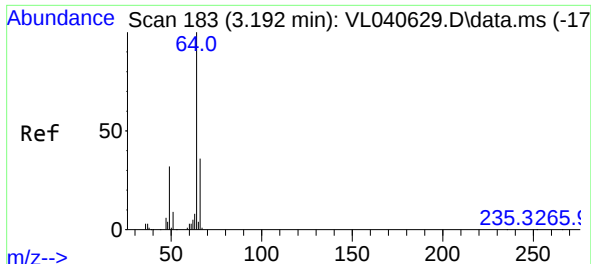
Tgt Ion: 51 Resp: 16283
Ion Ratio Lower Upper
51 100
67 13.4 15.0 22.6#



#4
Chloromethane
Concen: 0.302 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.003 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Tgt Ion: 50 Resp: 17028
Ion Ratio Lower Upper
50 100
52 30.1 26.2 39.2

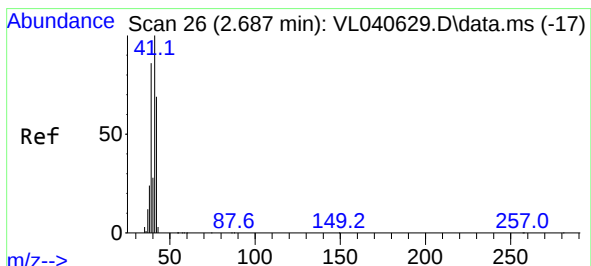
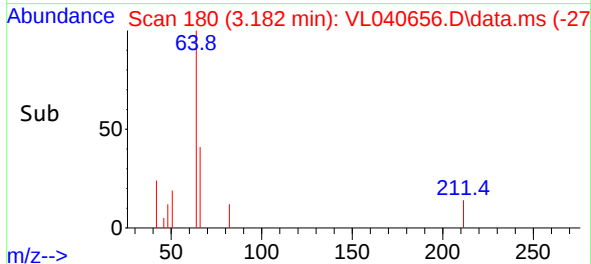
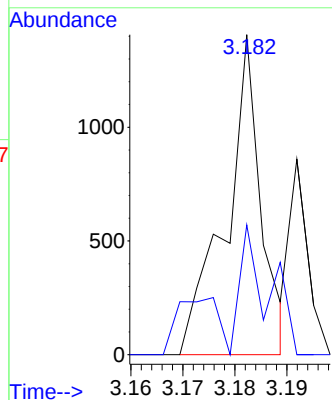
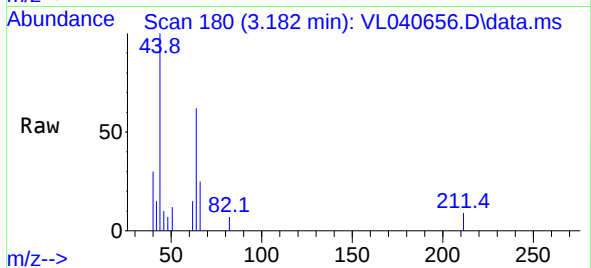




#7
Chloroethane
Concen: 0.030 ppbv
RT: 3.182 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

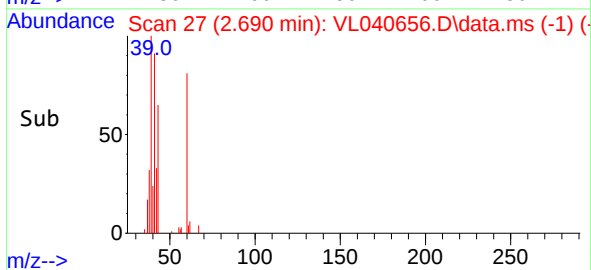
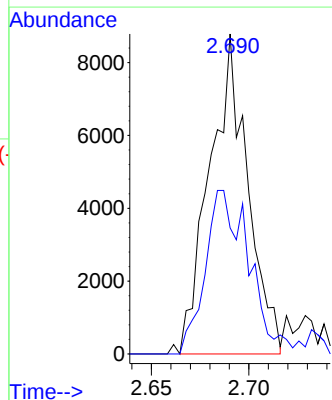
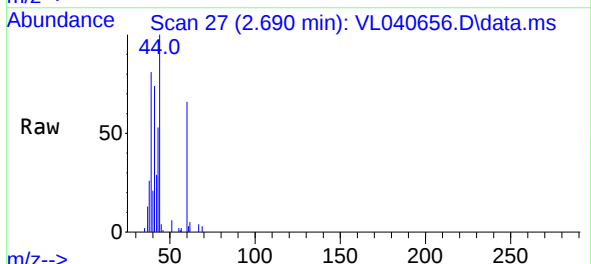
Instrument :
MSVOA_L
ClientSampleId :

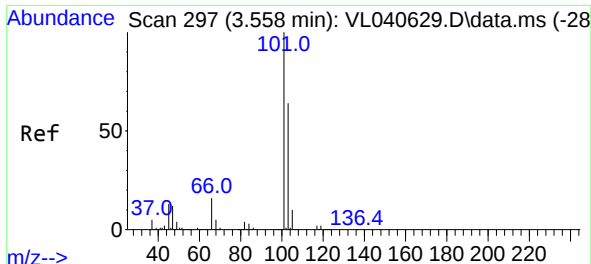
Tgt Ion: 64 Resp: 662
Ion Ratio Lower Upper
64 100
66 40.6 28.7 43.1



#9
Propene
Concen: 0.266 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Tgt Ion: 41 Resp: 11900
Ion Ratio Lower Upper
41 100
42 58.6 56.5 84.7

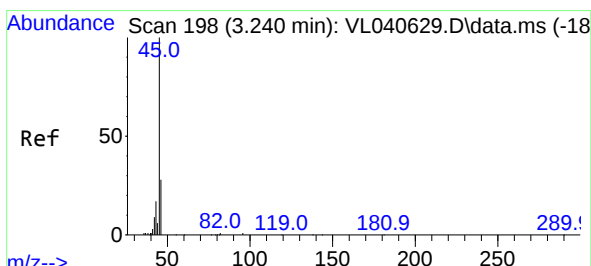
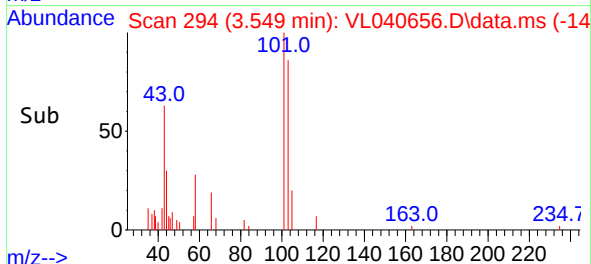
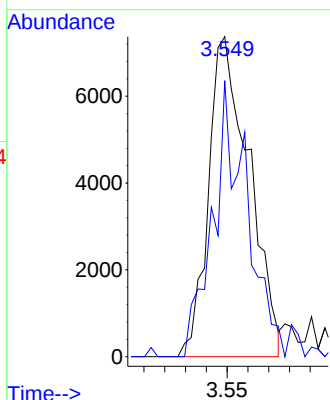
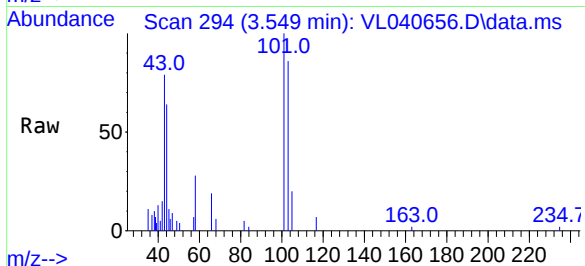




#11
 Trichlorofluoromethane
 Concen: 0.065 ppbv
 RT: 3.549 min Scan# 297
 Delta R.T. -0.010 min
 Lab File: VL040656.D
 Acq: 5 Sep 2023 21:01

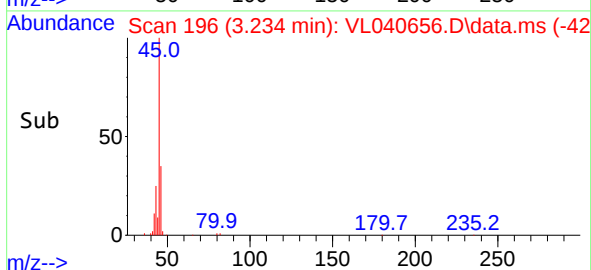
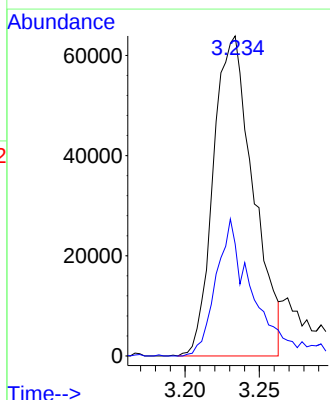
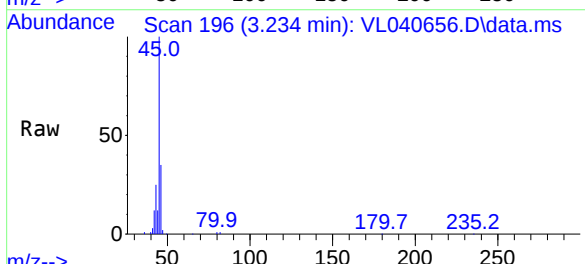
Instrument :
 MSVOA_L
 ClientSampleId :

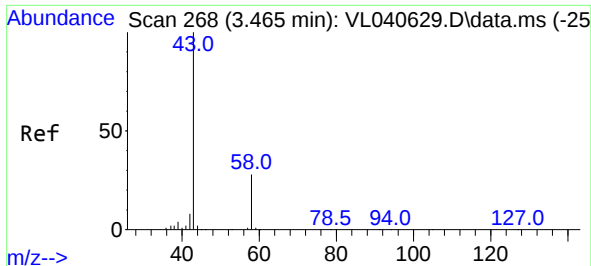
Tgt Ion:101 Resp: 10017
 Ion Ratio Lower Upper
 101 100
 103 86.3 51.1 76.7#



#13
 Ethanol
 Concen: 9.523 ppbv
 RT: 3.234 min Scan# 196
 Delta R.T. -0.006 min
 Lab File: VL040656.D
 Acq: 5 Sep 2023 21:01

Tgt Ion: 45 Resp: 119031
 Ion Ratio Lower Upper
 45 100
 46 41.8 14.2 56.6

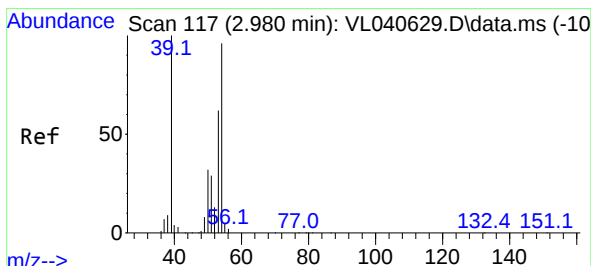
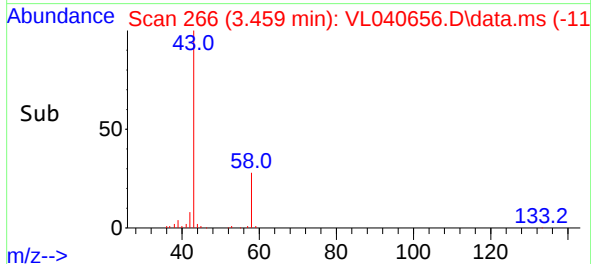
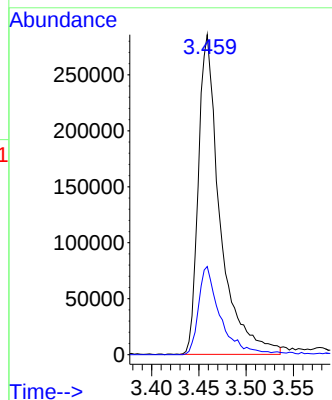
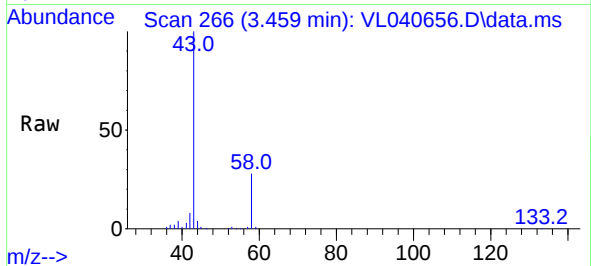




#15
Acetone
Concen: 4.242 ppbv
RT: 3.459 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

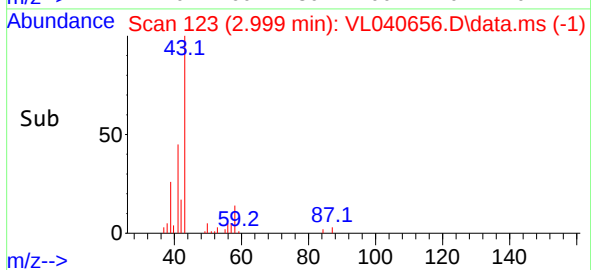
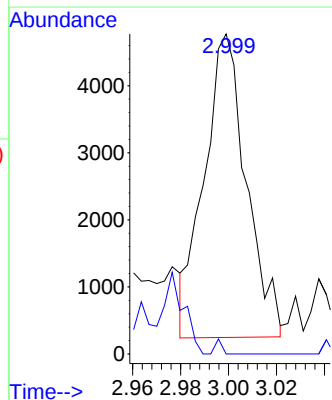
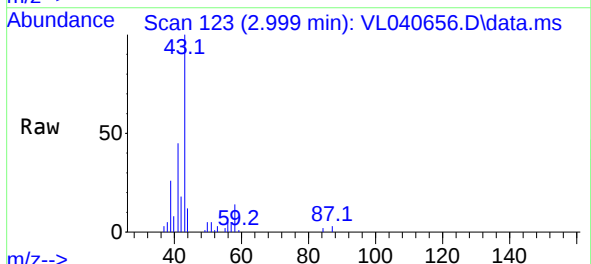
Instrument :
MSVOA_L
ClientSampleId :

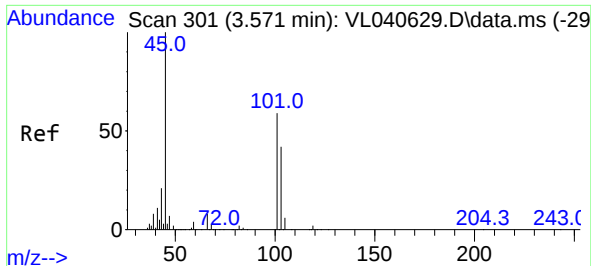
Tgt Ion: 43 Resp: 456783
Ion Ratio Lower Upper
43 100
58 28.8 22.4 33.6



#16
1,3-Butadiene
Concen: 0.103 ppbv
RT: 2.999 min Scan# 123
Delta R.T. 0.019 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Tgt Ion: 39 Resp: 5533
Ion Ratio Lower Upper
39 100
54 25.1 66.6 99.8#





#19

Isopropyl Alcohol

Concen: 0.260 ppbv

RT: 3.581 min Scan# 301

Delta R.T. 0.010 min

Lab File: VL040656.D

Acq: 5 Sep 2023 21:01

Instrument :

MSVOA_L

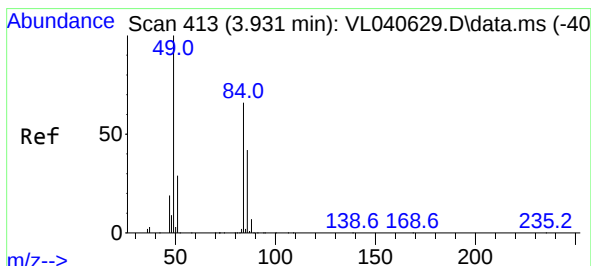
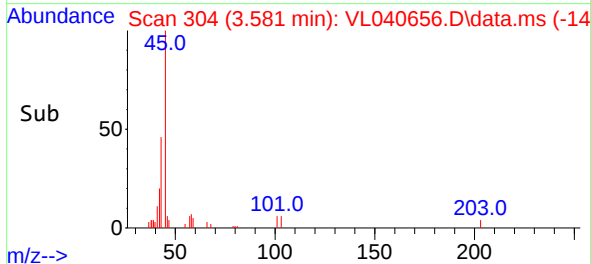
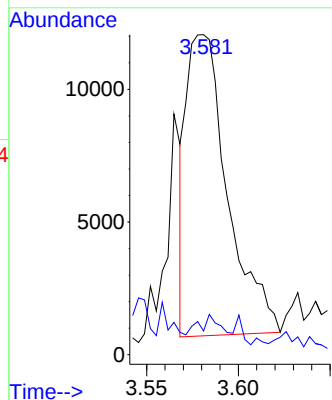
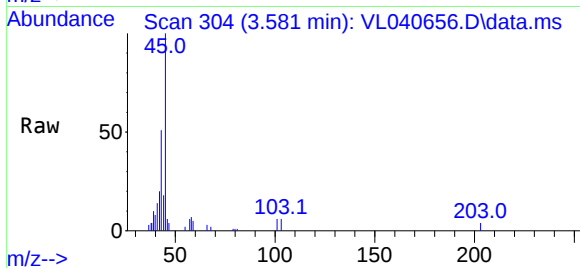
ClientSampleId :

Tgt Ion: 45 Resp: 17744

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 17.325 ppbv

RT: 3.922 min Scan# 410

Delta R.T. -0.010 min

Lab File: VL040656.D

Acq: 5 Sep 2023 21:01

Tgt Ion: 84 Resp: 911638

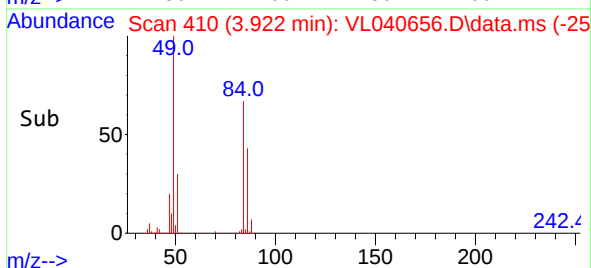
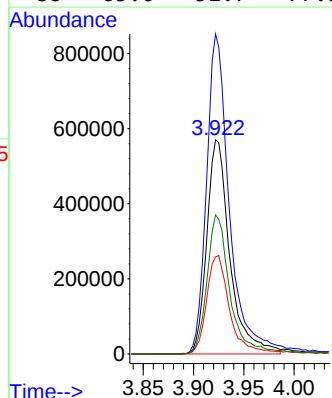
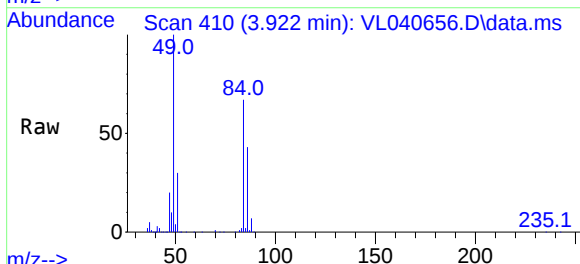
Ion Ratio Lower Upper

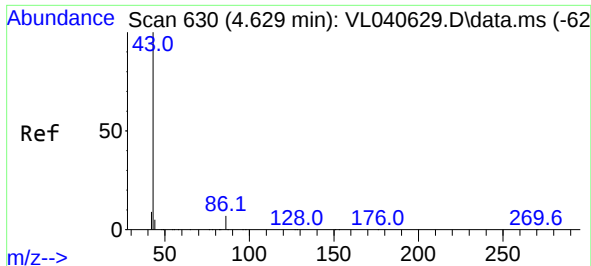
84 100

49 149.5 122.1 183.1

51 45.3 35.4 53.2

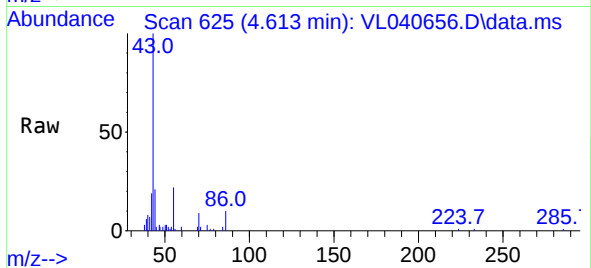
86 65.0 51.7 77.5



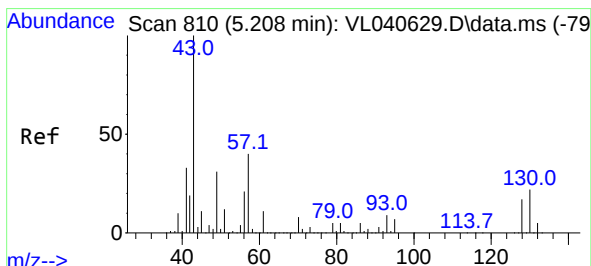
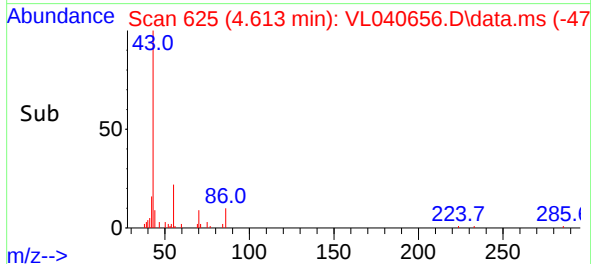
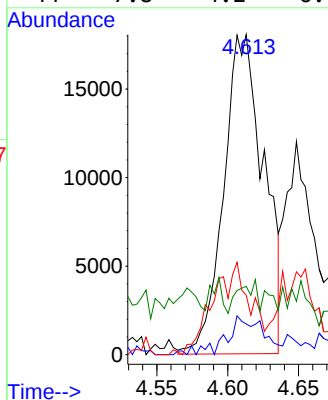


#23
Vinyl Acetate
Concen: 0.289 ppbv
RT: 4.613 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Instrument :
MSVOA_L
ClientSampleId :

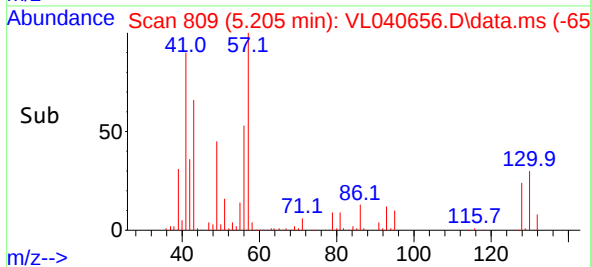
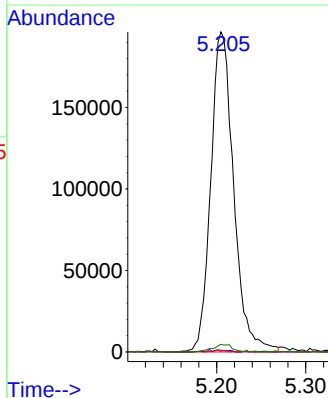
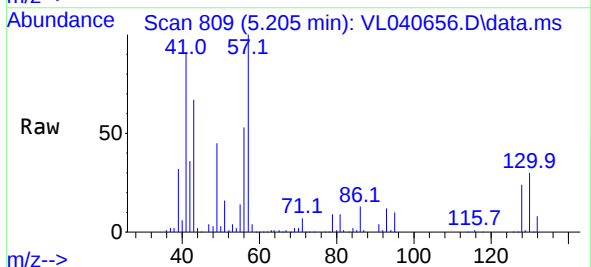


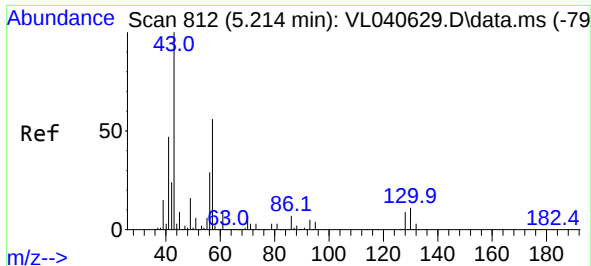
Tgt Ion: 43 Resp: 35451
Ion Ratio Lower Upper
43 100
86 8.6 5.0 7.6#
42 18.0 7.8 11.8#
44 7.8 4.2 6.4#



#25
Ethyl Acetate
Concen: 1.732 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

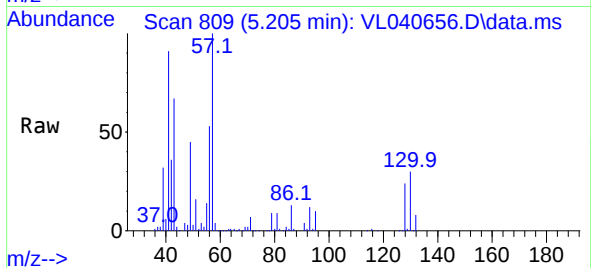
Tgt Ion: 43 Resp: 350241
Ion Ratio Lower Upper
43 100
45 0.5 8.2 12.4#
61 0.4 8.3 12.5#
70 2.1 6.1 9.1#



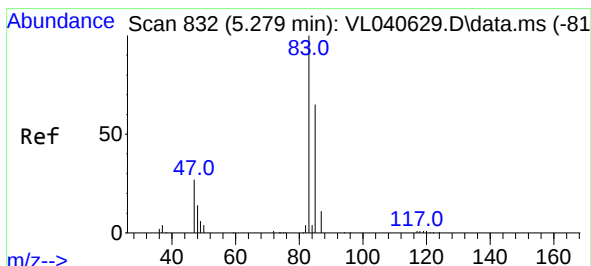
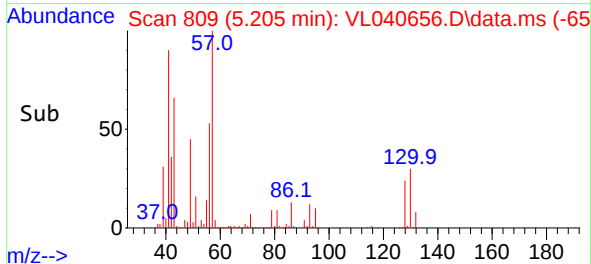
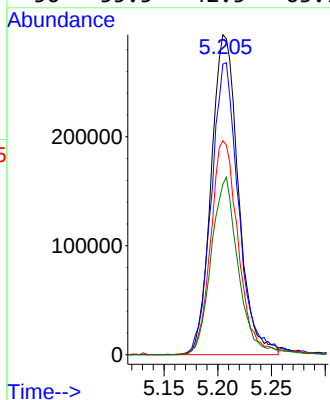


#26
Hexane
Concen: 5.283 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.010 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Instrument :
MSVOA_L
ClientSampleId :

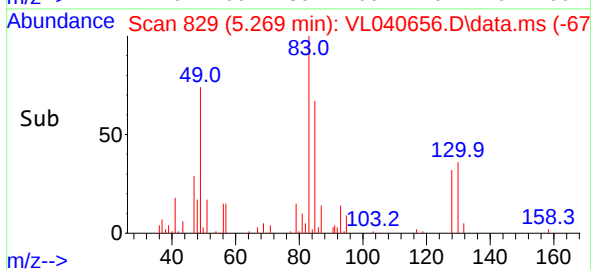
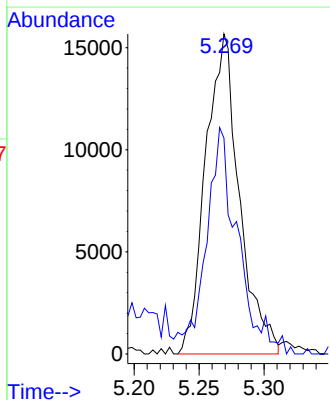
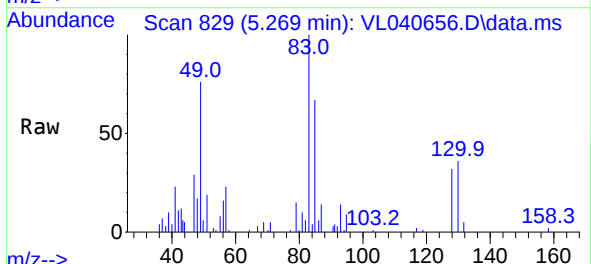


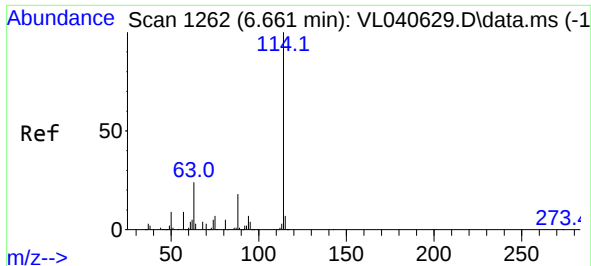
Tgt Ion: 57 Resp: 516949
Ion Ratio Lower Upper
57 100
41 92.8 69.3 103.9
43 68.8 177.9 266.9#
56 55.5 42.5 63.7



#29
Chloroform
Concen: 0.182 ppbv
RT: 5.269 min Scan# 829
Delta R.T. -0.010 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Tgt Ion: 83 Resp: 28260
Ion Ratio Lower Upper
83 100
85 64.1 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040656.D

Acq: 5 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

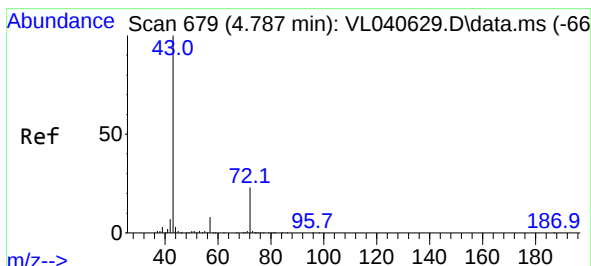
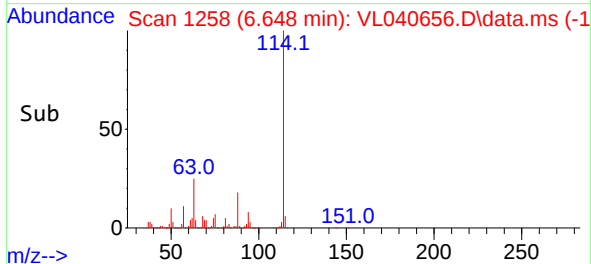
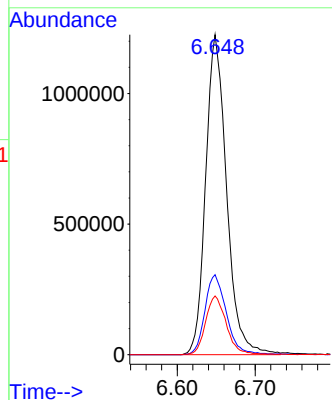
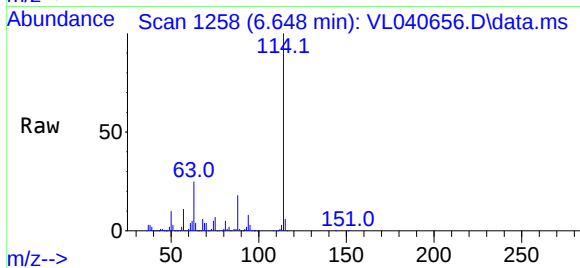
Tgt Ion:114 Resp: 2284690

Ion Ratio Lower Upper

114 100

63 25.8 20.2 30.2

88 18.4 14.1 21.1



#34

2-Butanone

Concen: 0.371 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.003 min

Lab File: VL040656.D

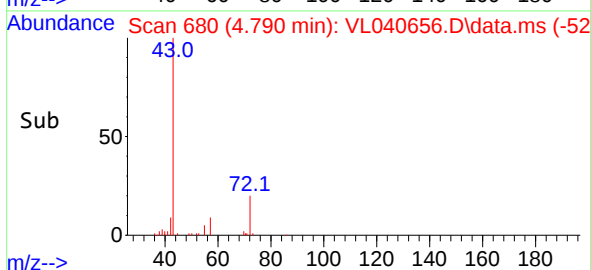
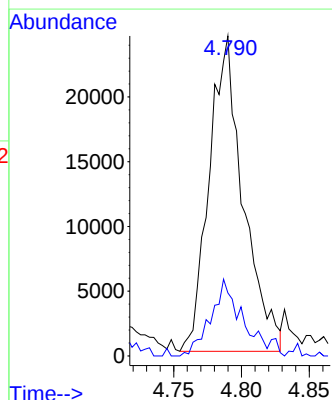
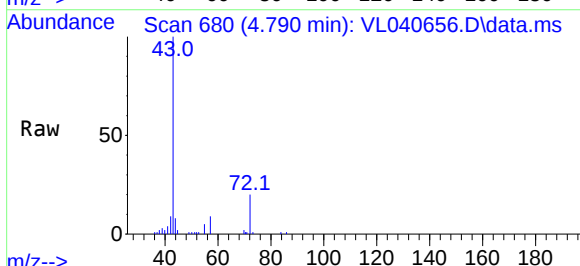
Acq: 5 Sep 2023 21:01

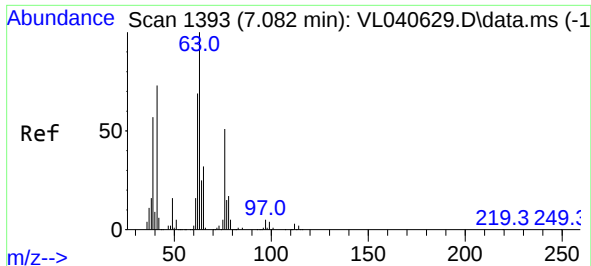
Tgt Ion: 43 Resp: 42697

Ion Ratio Lower Upper

43 100

72 24.0 19.2 28.8





#39

1,2-Dichloropropane

Concen: 8.408 ppbv

RT: 6.648 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL040656.D

Acq: 5 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :

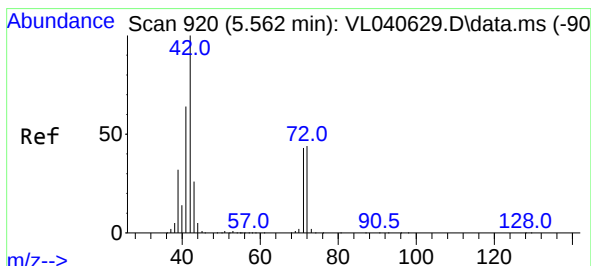
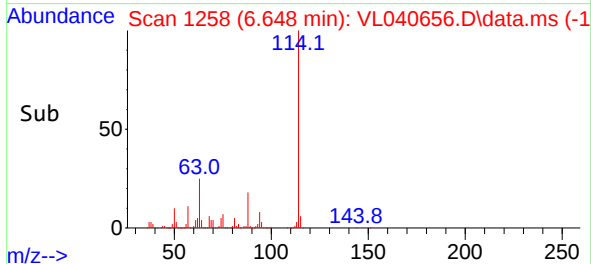
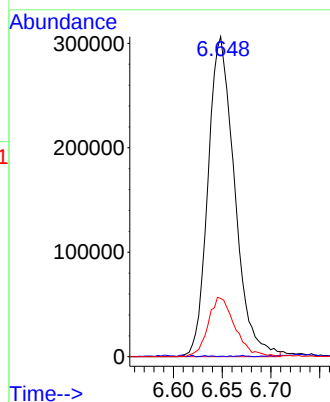
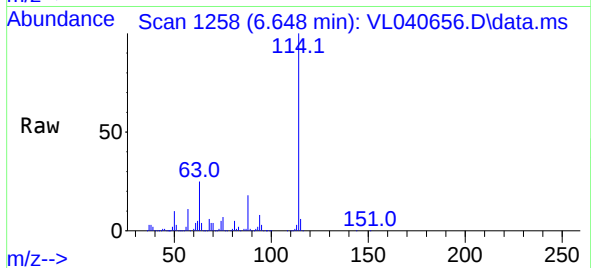
Tgt Ion: 63 Resp: 581395

Ion Ratio Lower Upper

63 100

41 0.0 58.2 87.2#

62 18.0 55.0 82.4#



#41

Tetrahydrofuran

Concen: 3.041 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.354 min

Lab File: VL040656.D

Acq: 5 Sep 2023 21:01

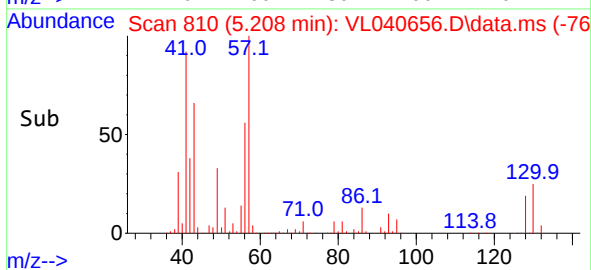
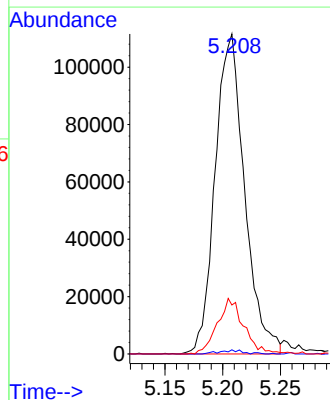
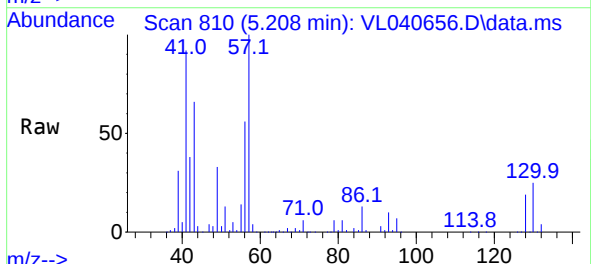
Tgt Ion: 42 Resp: 198025

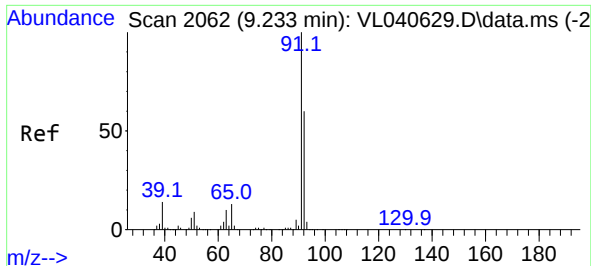
Ion Ratio Lower Upper

42 100

72 1.1 34.2 51.4#

71 15.7 33.4 50.0#

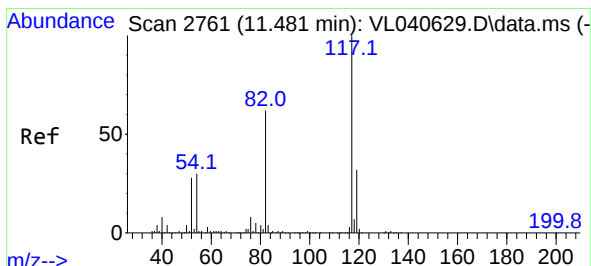
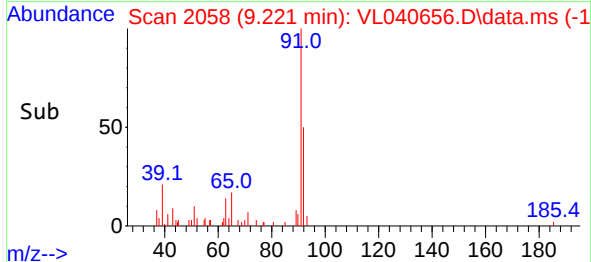
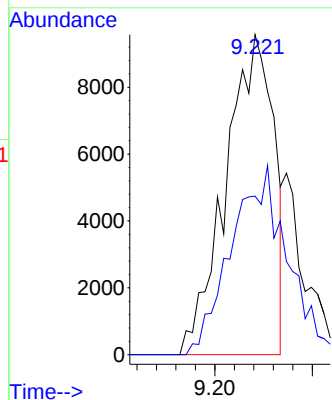
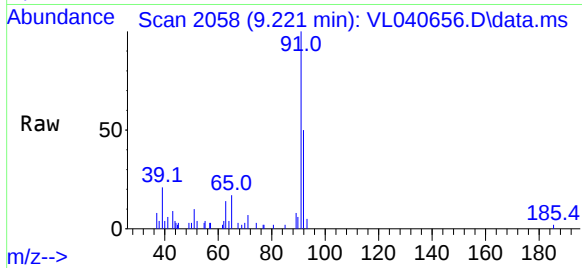




#53
Toluene
Concen: 0.085 ppbv
RT: 9.221 min Scan# 2062
Delta R.T. -0.013 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

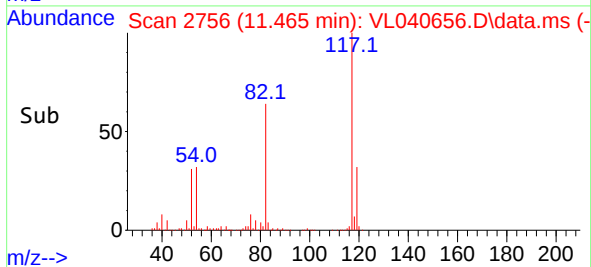
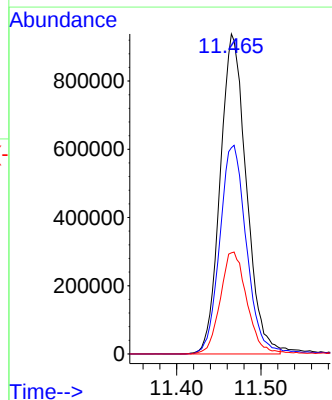
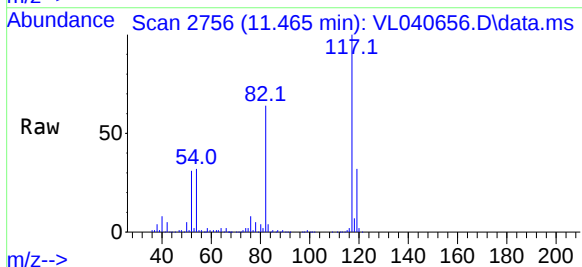
Instrument :
MSVOA_L
ClientSampleId :

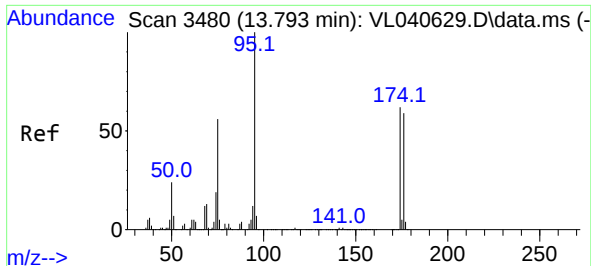
Tgt Ion: 91 Resp: 16396
Ion Ratio Lower Upper
91 100
92 68.4 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.016 min
Lab File: VL040656.D
Acq: 5 Sep 2023 21:01

Tgt Ion: 117 Resp: 2014794
Ion Ratio Lower Upper
117 100
82 67.6 49.5 74.3
119 33.0 24.5 36.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.204 ppbv

RT: 13.780 min Scan# 34

Delta R.T. -0.013 min

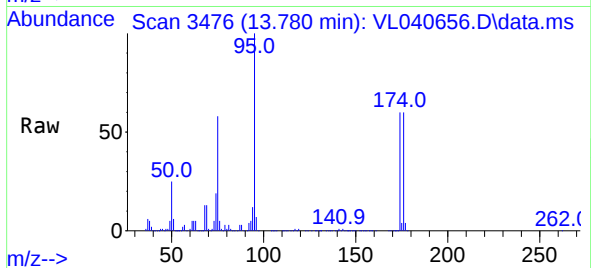
Lab File: VL040656.D

Acq: 5 Sep 2023 21:01

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 95 Resp: 1635081

Ion Ratio Lower Upper

95 100

174 62.0 49.1 73.7

175 4.2 3.7 5.5

