

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050624\
 Data File : VL041215.D
 Acq On : 6 May 2024 13:01
 Operator : SY/MD
 Sample : P2334-10
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-03-IA02-20240425

Quant Time: May 07 05:23:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue May 07 05:19:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	792590	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2107991	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	1893755	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1416959	9.911	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	40333	0.376	ppbv	96
3) Chlorodifluoromethane	2.658	51	111771	0.929	ppbv #	66
4) Chloromethane	2.819	50	6797	0.144	ppbv #	84
9) Propene	2.700	41	6100	0.129	ppbv #	32
10) Heptane	7.578	43	3837	0.034	ppbv #	11
11) Trichlorofluoromethane	3.568	101	28833	0.265	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.066	101	8456	0.105	ppbv #	73
13) Ethanol	3.250	45	100754	9.541	ppbv	87
15) Acetone	3.475	43	458829	4.905	ppbv	99
19) Isopropyl Alcohol	3.623	45	2835	0.046	ppbv #	41
20) Methylene Chloride	3.935	84	525515	16.156	ppbv	97
23) Vinyl Acetate	4.623	43	14385	0.140	ppbv #	89
25) Ethyl Acetate	5.211	43	505845	2.709	ppbv #	78
26) Hexane	5.211	57	687723	8.254	ppbv #	42
29) Chloroform	5.279	83	8262	0.072	ppbv	86
32) 1,1,1-Trichloroethane	6.002	97	3580	0.031	ppbv #	45
34) 2-Butanone	4.796	43	27121	0.253	ppbv	94
35) Carbon Tetrachloride	6.491	117	38397	0.325	ppbv	99
36) Benzene	6.372	78	5448	0.031	ppbv #	75
38) Trichloroethene	7.288	130	958585	14.541	ppbv	98
39) 1,2-Dichloropropane	6.652	63	535676	7.857	ppbv #	23
41) Tetrahydrofuran	5.256	42	4906	0.063	ppbv #	38
44) 2,2,4-Trimethylpentane	7.324	57	12897	0.042	ppbv #	22
52) Tetrachloroethene	10.610	164	40714	0.655	ppbv	95
53) Toluene	9.221	91	102394	0.499	ppbv	99
60) o-Xylene	13.047	91	6663	0.033	ppbv #	50
61) Styrene	12.896	104	4162	0.039	ppbv #	8

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

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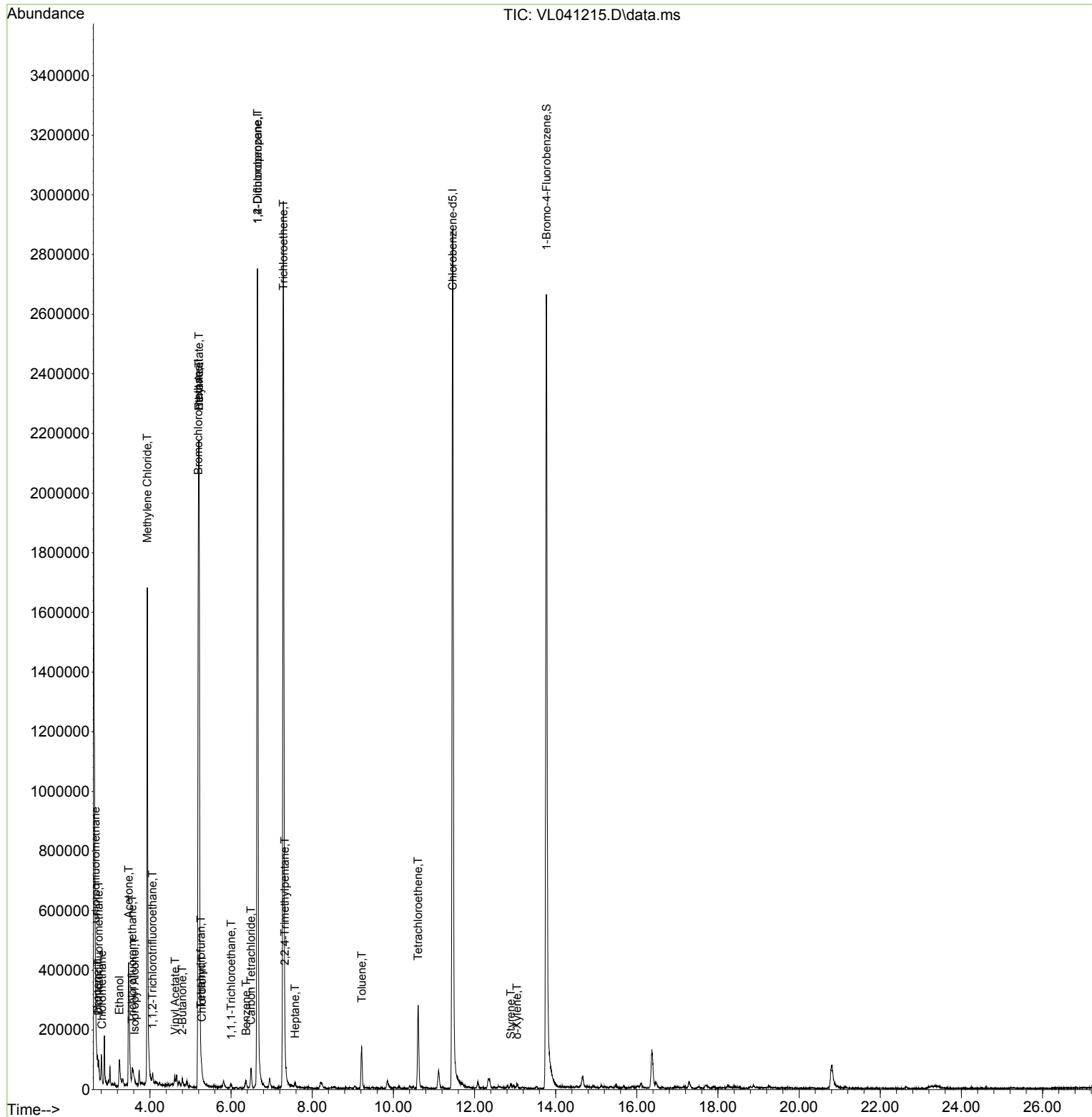
Quant Time: May 07 05:23:15 2024

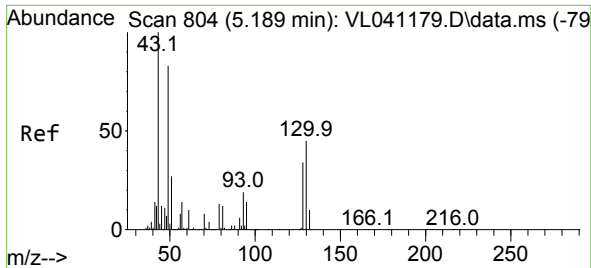
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Tue May 07 05:19:44 2024

Response via : Initial Calibration

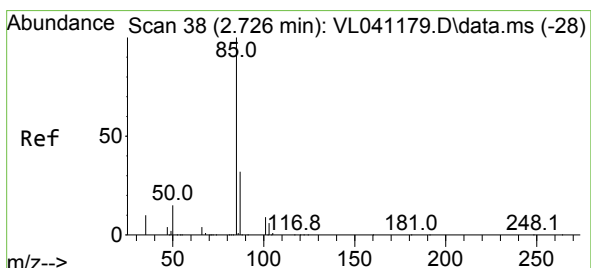
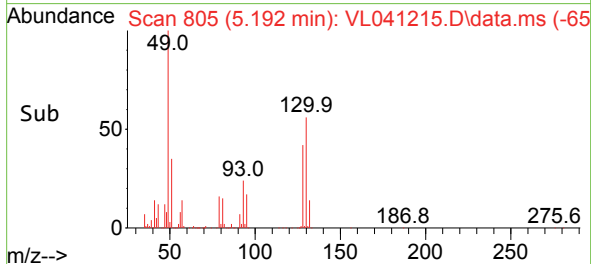
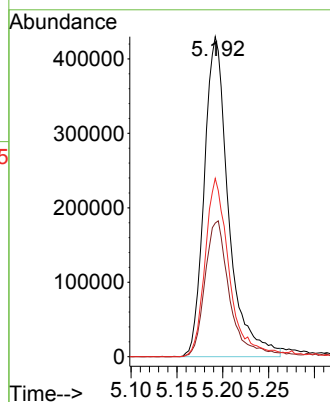
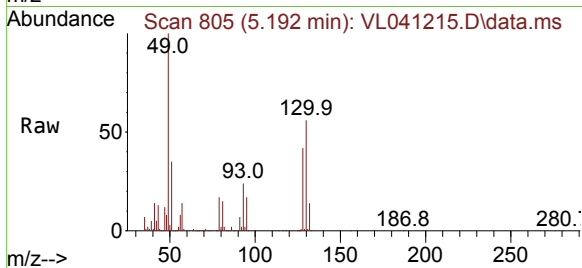




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

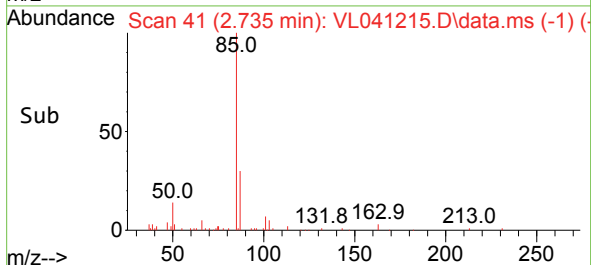
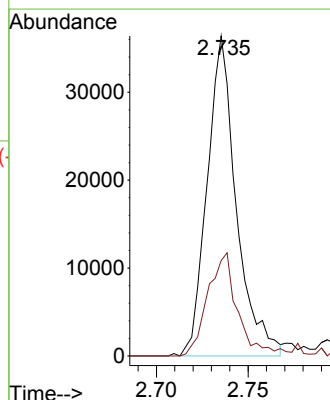
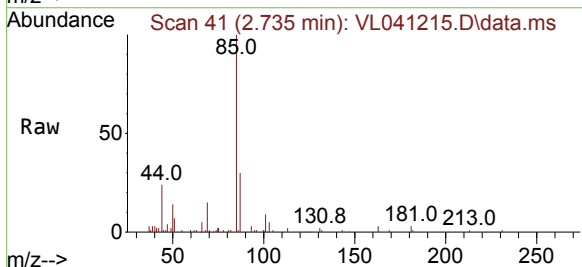
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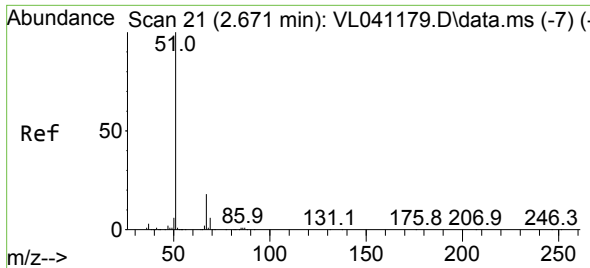
Tgt Ion: 49 Resp: 792590
 Ion Ratio Lower Upper
 49 100
 128 43.7 21.5 64.5
 130 57.6 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.376 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

Tgt Ion: 85 Resp: 40333
 Ion Ratio Lower Upper
 85 100
 87 29.8 25.7 38.5

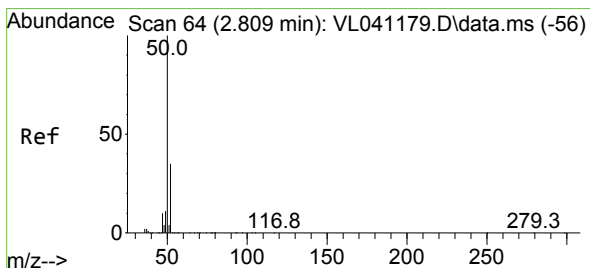
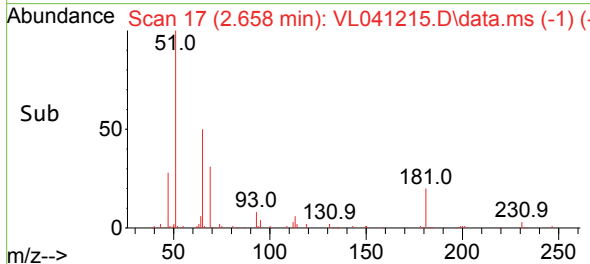
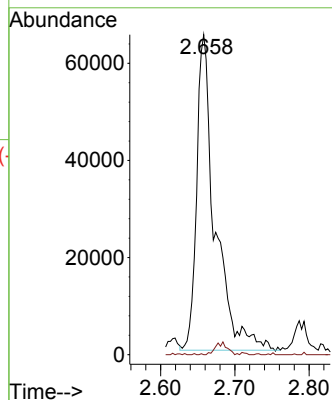
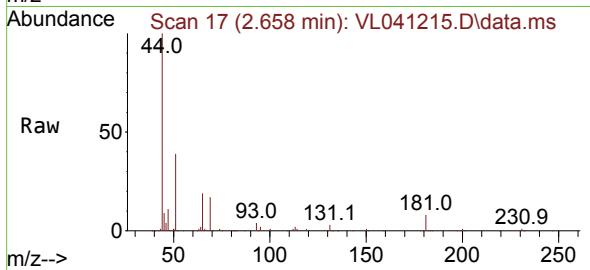




#3
Chlorodifluoromethane
Concen: 0.929 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

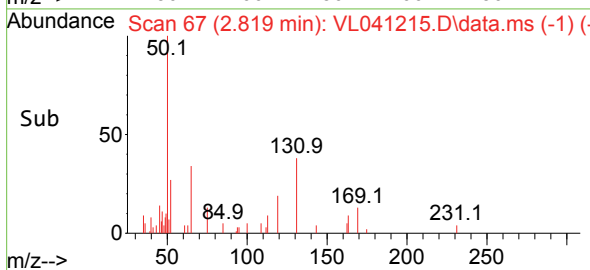
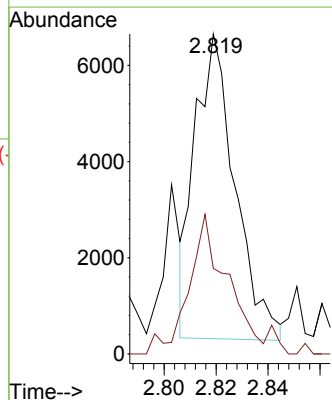
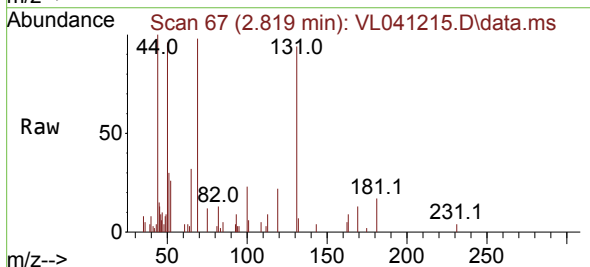
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ClientSampleId :
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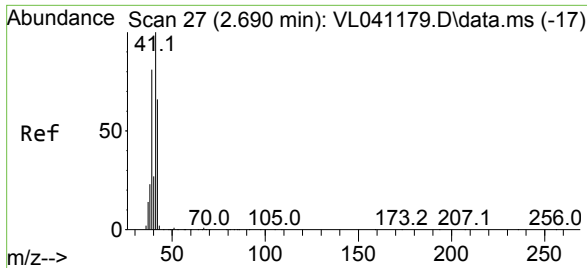
Tgt Ion: 51 Resp: 111771
Ion Ratio Lower Upper
51 100
67 2.8 14.0 21.0#



#4
Chloromethane
Concen: 0.144 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 50 Resp: 6797
Ion Ratio Lower Upper
50 100
52 25.8 28.3 42.5#

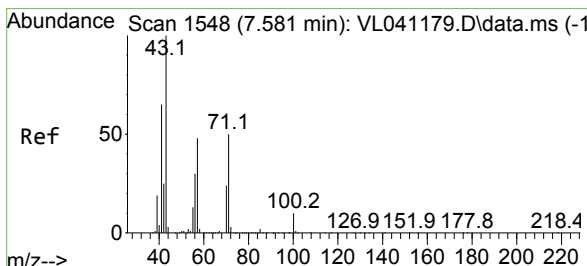
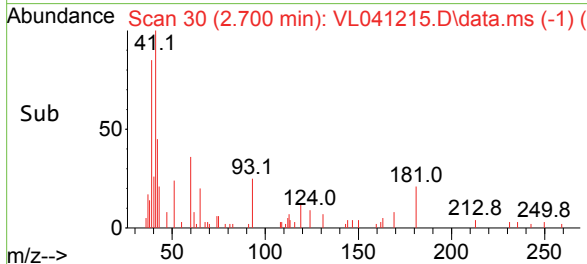
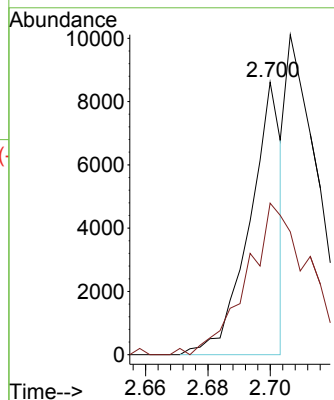
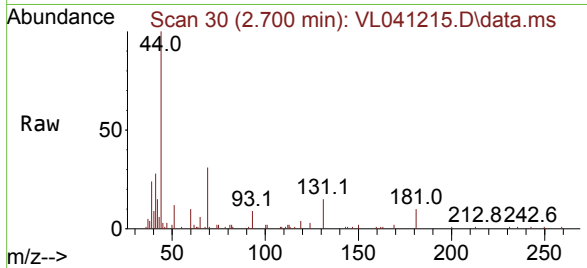




#9
Propene
Concen: 0.129 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

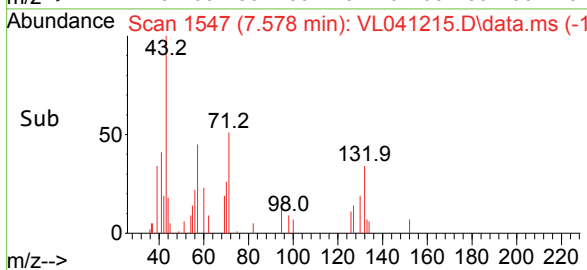
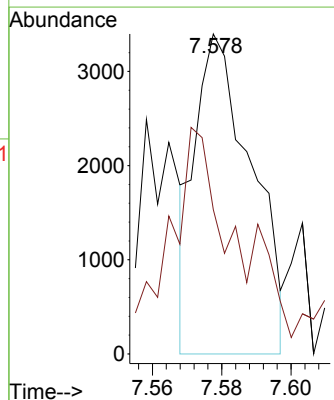
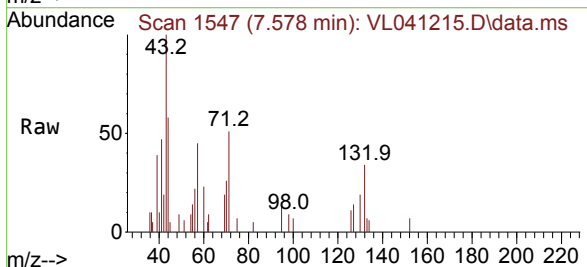
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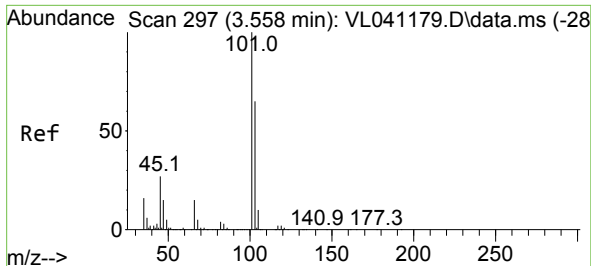
Tgt Ion: 41 Resp: 6100
Ion Ratio Lower Upper
41 100
42 124.5 55.3 82.9#



#10
Heptane
Concen: 0.034 ppbv
RT: 7.578 min Scan# 1547
Delta R.T. 0.000 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 43 Resp: 3837
Ion Ratio Lower Upper
43 100
57 108.9 38.7 58.1#

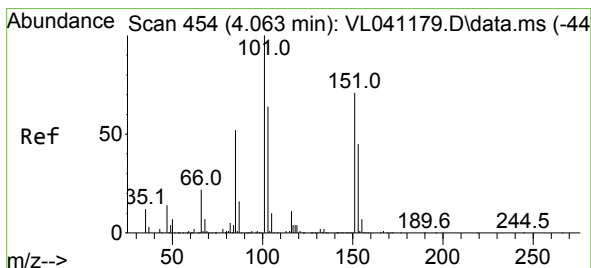
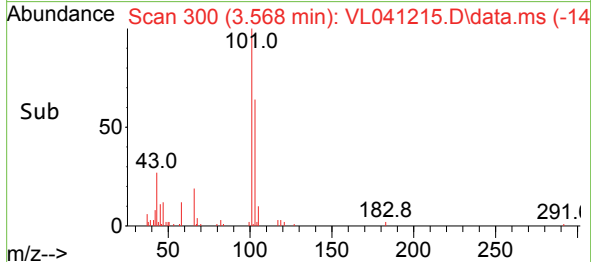
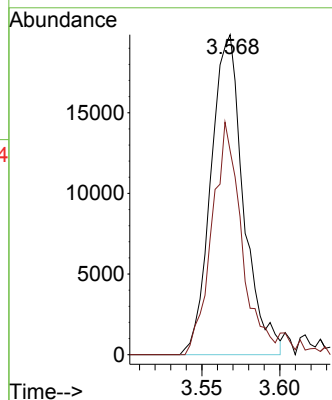
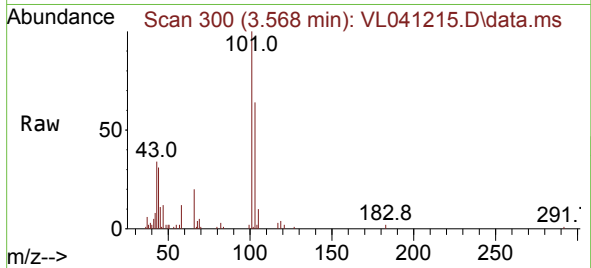




#11
 Trichlorofluoromethane
 Concen: 0.265 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. 0.000 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

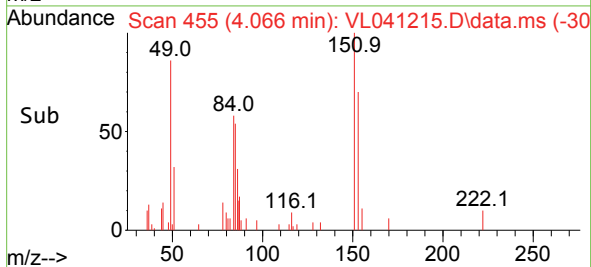
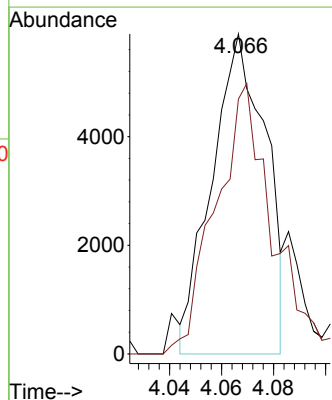
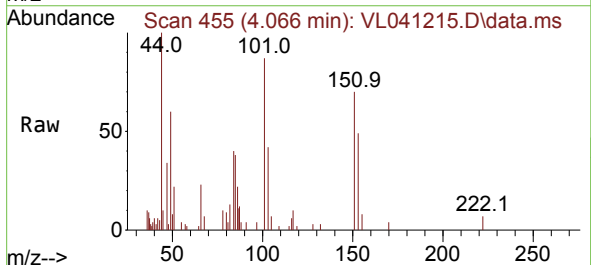
Instrument :
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 ClientSampleId :
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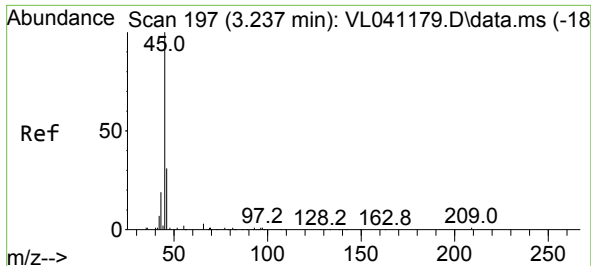
Tgt Ion:101 Resp: 28833
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.105 ppbv
 RT: 4.066 min Scan# 455
 Delta R.T. -0.003 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

Tgt Ion:101 Resp: 8456
 Ion Ratio Lower Upper
 101 100
 151 93.5 56.8 85.2#

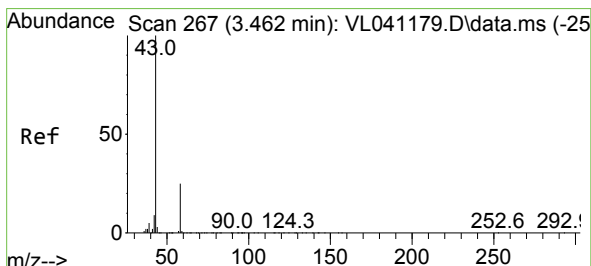
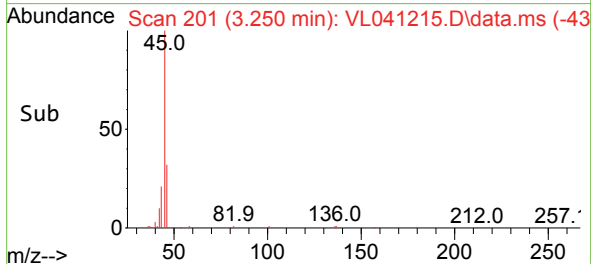
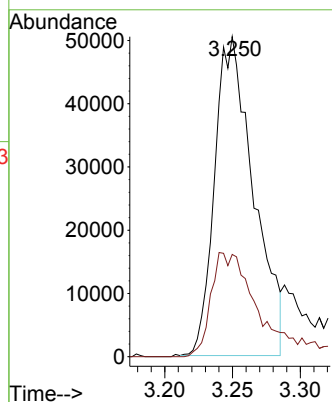
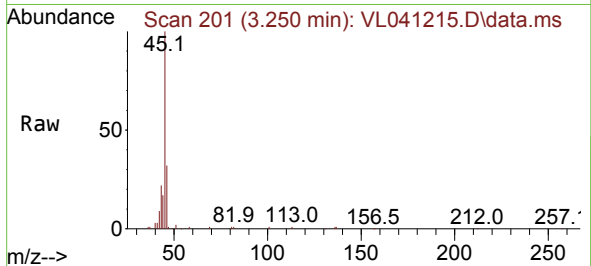




#13
 Ethanol
 Concen: 9.541 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. 0.007 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

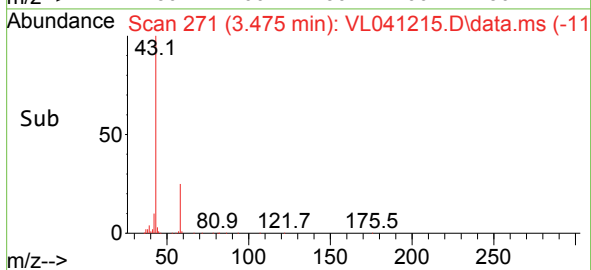
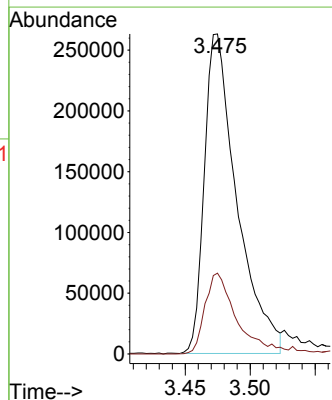
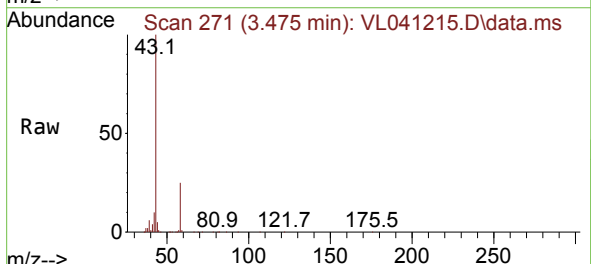
Instrument :
 MSVOA_L
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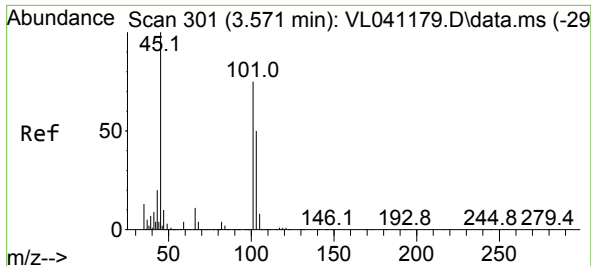
Tgt Ion: 45 Resp: 100754
 Ion Ratio Lower Upper
 45 100
 46 44.8 14.8 59.0



#15
 Acetone
 Concen: 4.905 ppbv
 RT: 3.475 min Scan# 271
 Delta R.T. 0.000 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

Tgt Ion: 43 Resp: 458829
 Ion Ratio Lower Upper
 43 100
 58 26.1 21.4 32.0





#19

Isopropyl Alcohol

Concen: 0.046 ppbv

RT: 3.623 min Scan# 317

Delta R.T. 0.042 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

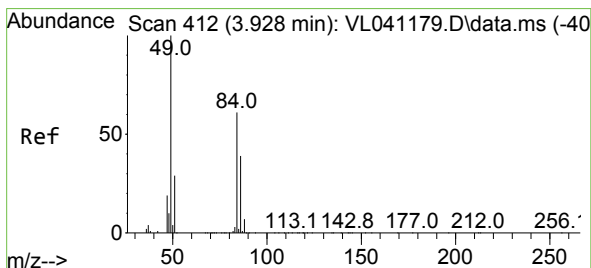
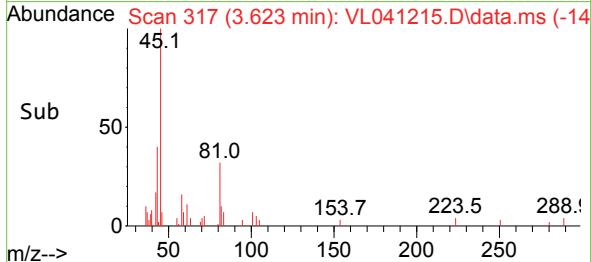
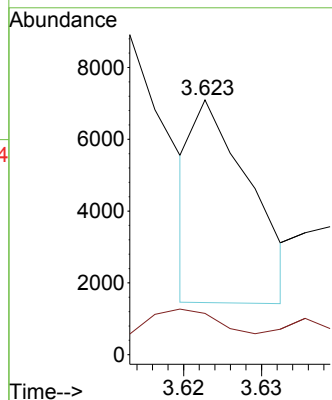
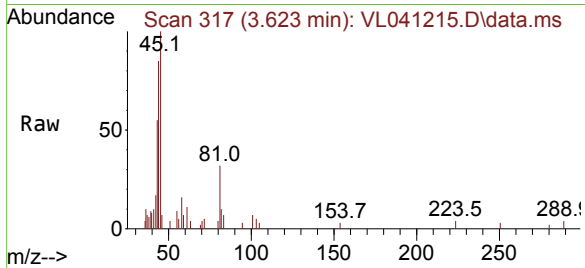
BA-03-IA02-20240425

Tgt Ion: 45 Resp: 2835

Ion Ratio Lower Upper

45 100

58 0.0 26.8 40.2#



#20

Methylene Chloride

Concen: 16.156 ppbv

RT: 3.935 min Scan# 414

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion: 84 Resp: 525515

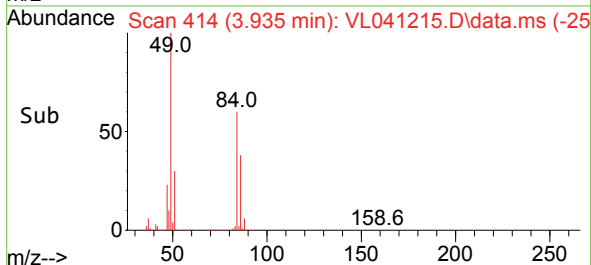
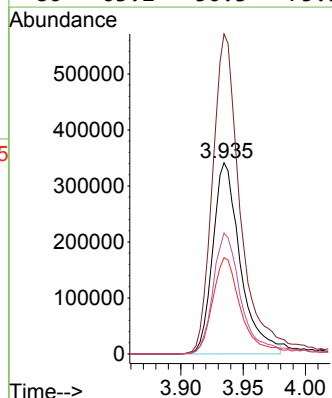
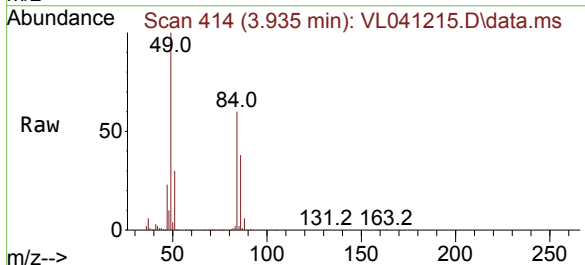
Ion Ratio Lower Upper

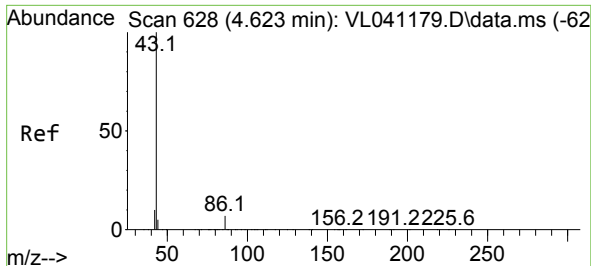
84 100

49 167.3 130.4 195.6

51 50.2 38.0 57.0

86 63.2 50.3 75.5

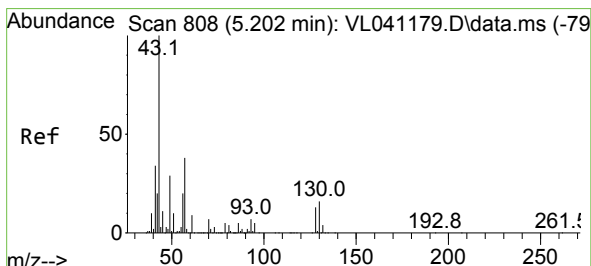
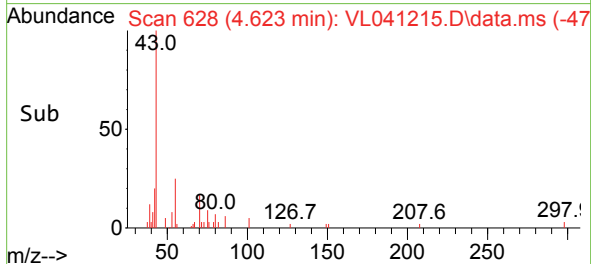
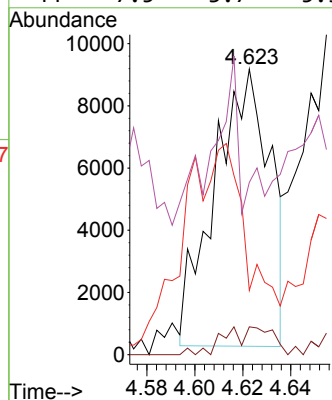
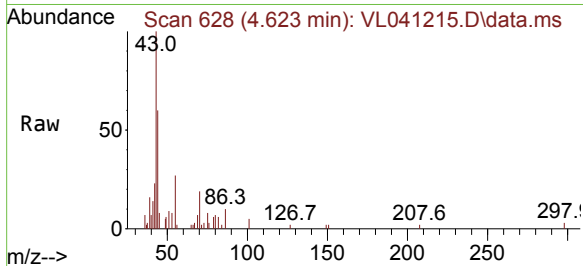




#23
 Vinyl Acetate
 Concen: 0.140 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

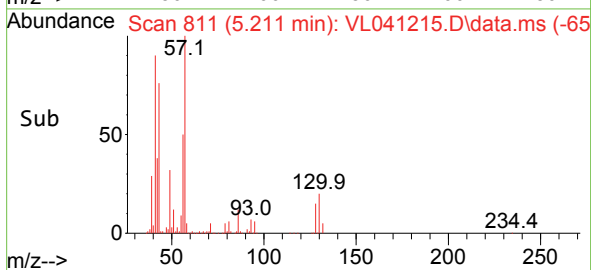
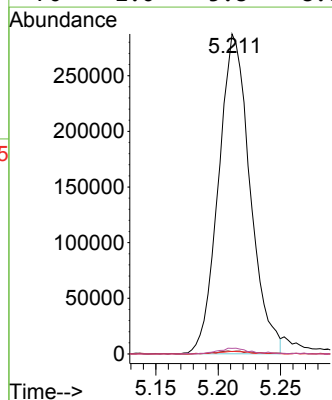
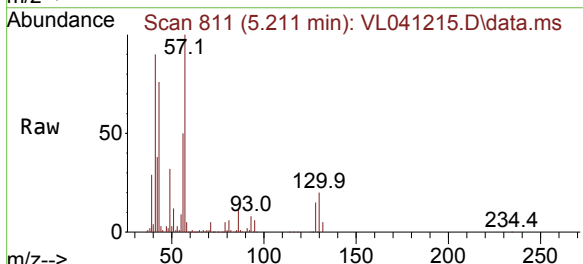
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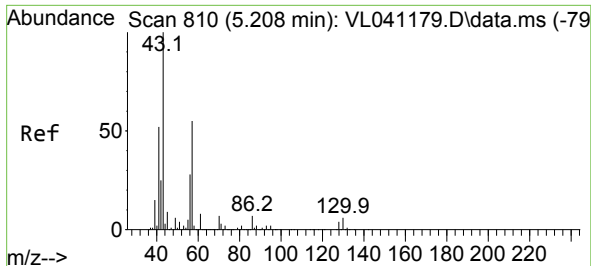
Tgt Ion: 43 Resp: 14385
 Ion Ratio Lower Upper
 43 100
 86 10.5 4.9 7.3#
 42 5.9 8.0 12.0#
 44 7.5 3.7 5.5#



#25
 Ethyl Acetate
 Concen: 2.709 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.007 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

Tgt Ion: 43 Resp: 505845
 Ion Ratio Lower Upper
 43 100
 45 1.2 8.2 12.2#
 61 0.9 7.7 11.5#
 70 2.0 5.8 8.6#

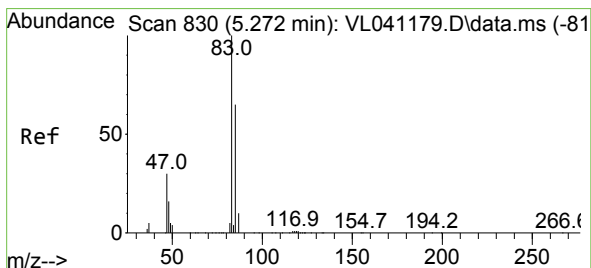
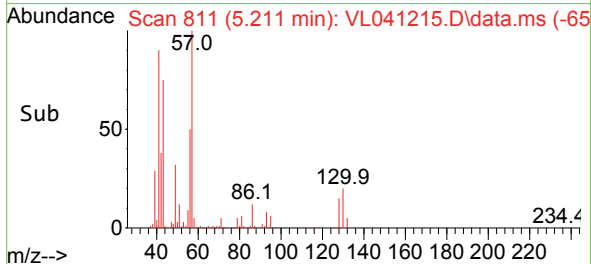
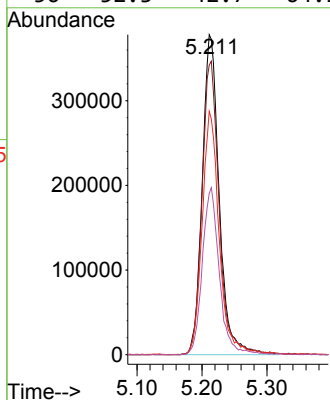
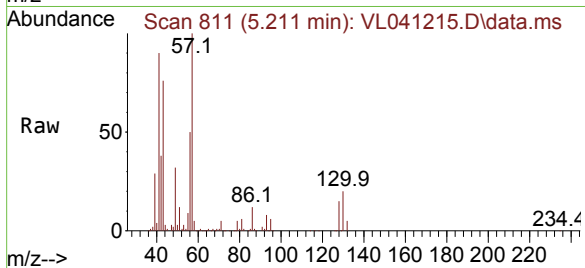




#26
Hexane
Concen: 8.254 ppbv
RT: 5.211 min Scan# 810
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

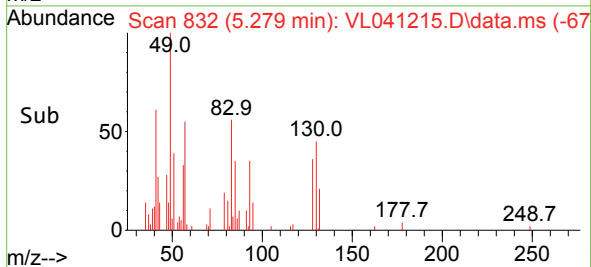
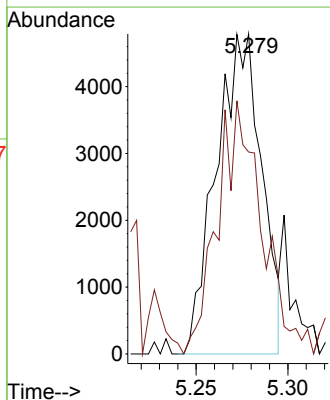
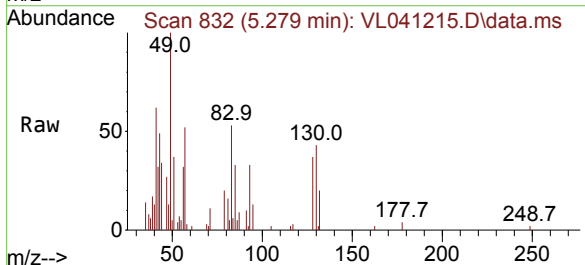
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425

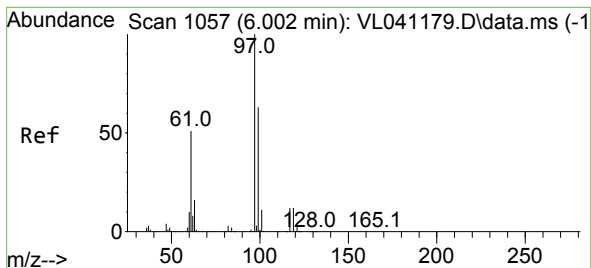
Tgt Ion: 57 Resp: 687723
Ion Ratio Lower Upper
57 100
41 93.2 75.8 113.8
43 76.8 187.0 280.4#
56 52.3 42.7 64.1



#29
Chloroform
Concen: 0.072 ppbv
RT: 5.279 min Scan# 832
Delta R.T. 0.000 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 83 Resp: 8262
Ion Ratio Lower Upper
83 100
85 53.4 51.7 77.5





#32

1,1,1-Trichloroethane

Concen: 0.031 ppbv

RT: 6.002 min Scan# 1057

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

BA-03-IA02-20240425

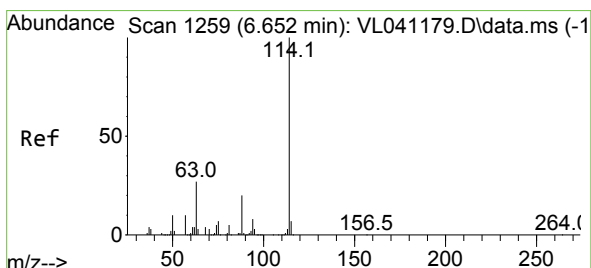
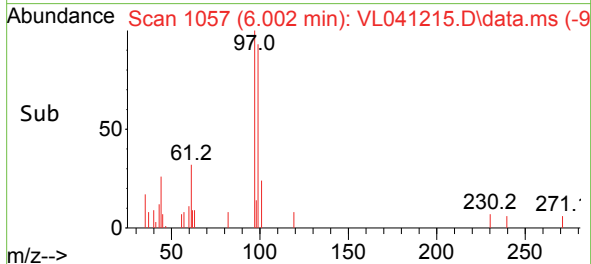
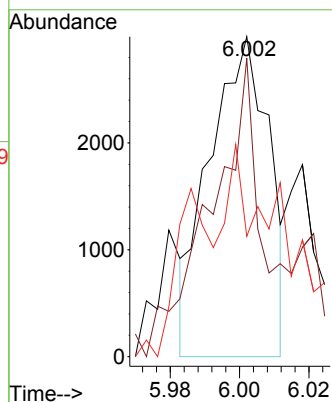
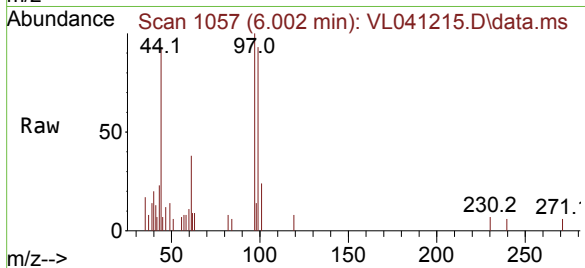
Tgt Ion: 97 Resp: 3580

Ion Ratio Lower Upper

97 100

99 100.6 51.7 77.5#

61 97.3 41.1 61.7#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 1259

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

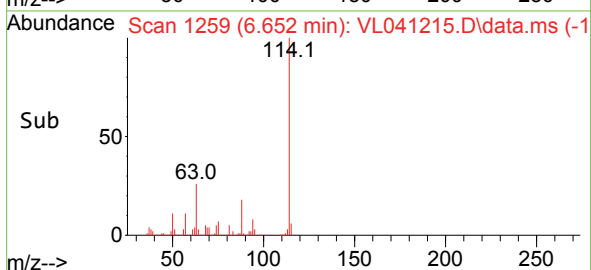
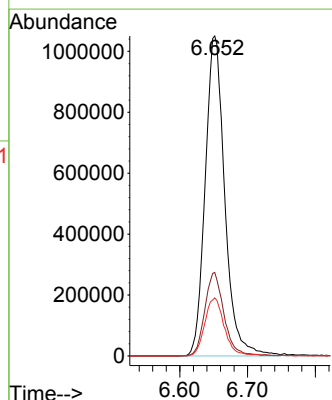
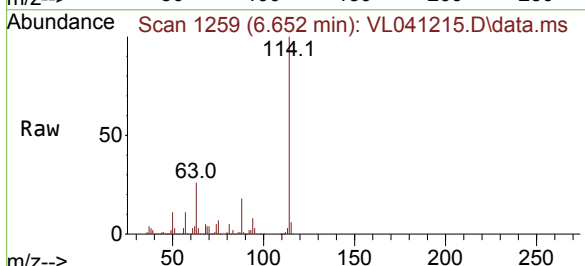
Tgt Ion: 114 Resp: 2107991

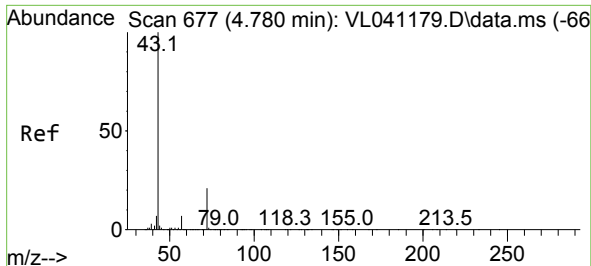
Ion Ratio Lower Upper

114 100

63 26.0 21.8 32.6

88 18.4 15.2 22.8

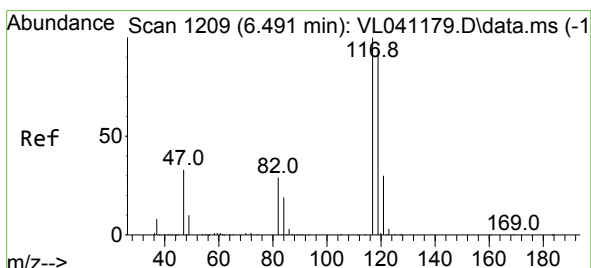
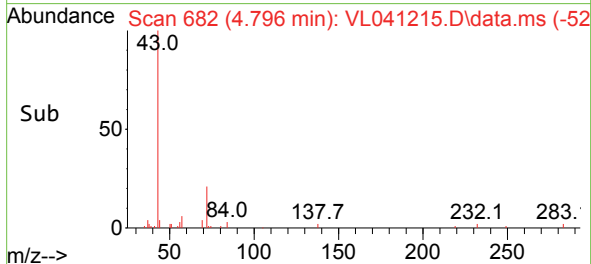
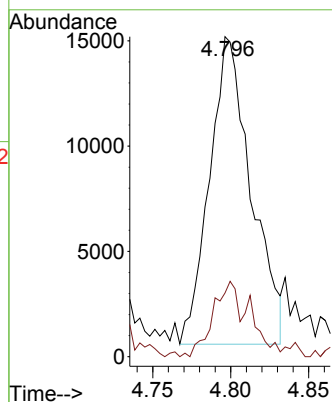
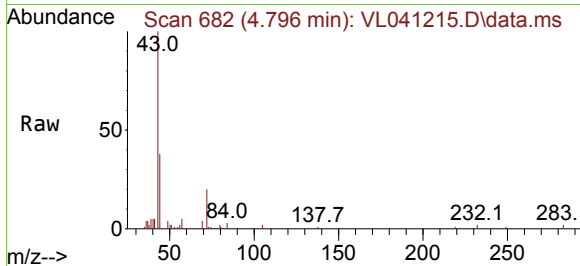




#34
2-Butanone
Concen: 0.253 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

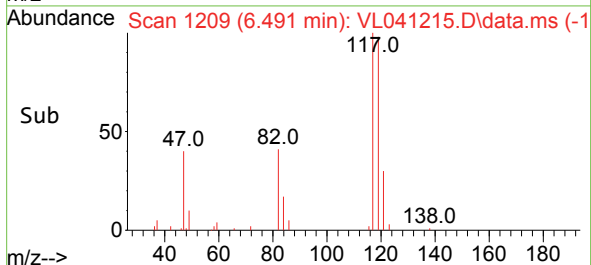
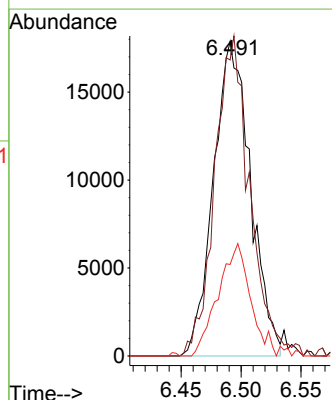
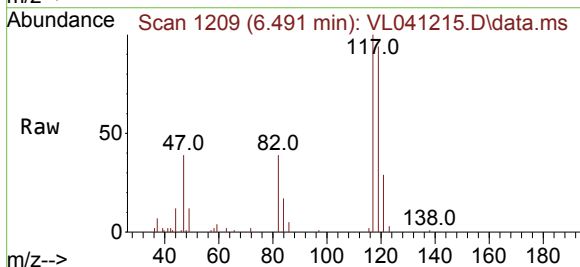
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425

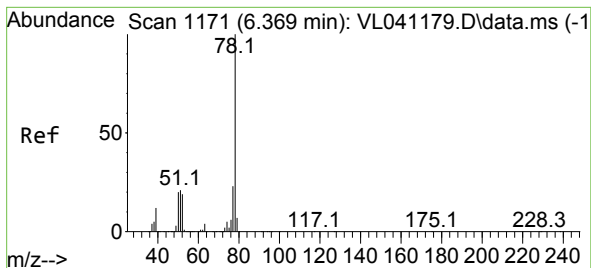
Tgt Ion: 43 Resp: 27121
Ion Ratio Lower Upper
43 100
72 24.3 17.3 25.9



#35
Carbon Tetrachloride
Concen: 0.325 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 117 Resp: 38397
Ion Ratio Lower Upper
117 100
119 94.1 74.3 111.5
121 29.1 23.8 35.8





#36

Benzene

Concen: 0.031 ppbv

RT: 6.372 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

BA-03-IA02-20240425

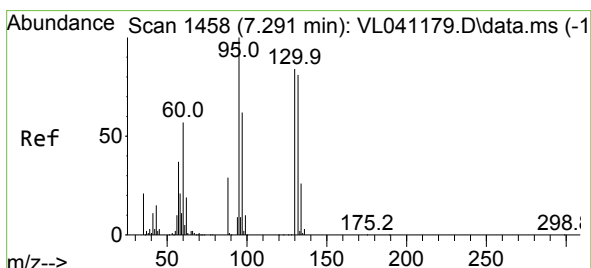
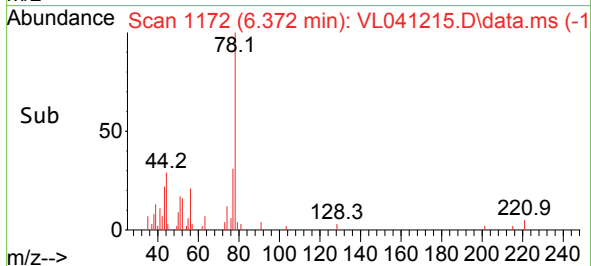
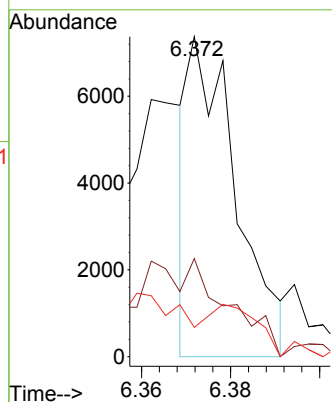
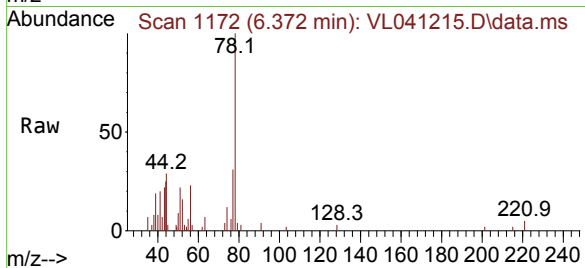
Tgt Ion: 78 Resp: 5448

Ion Ratio Lower Upper

78 100

77 37.1 18.3 27.5#

50 11.1 15.9 23.9#



#38

Trichloroethene

Concen: 14.541 ppbv

RT: 7.288 min Scan# 1457

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion:130 Resp: 958585

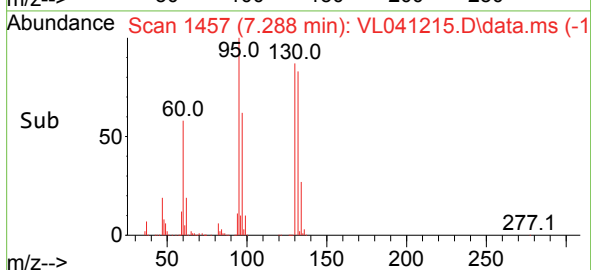
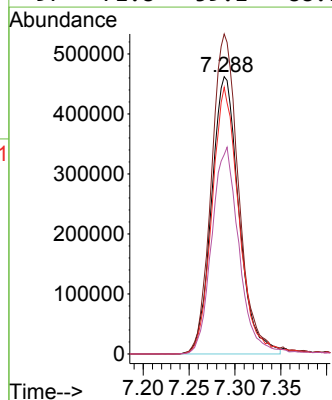
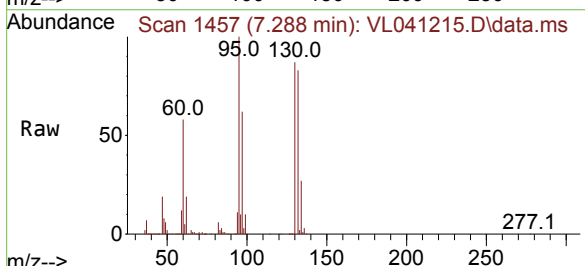
Ion Ratio Lower Upper

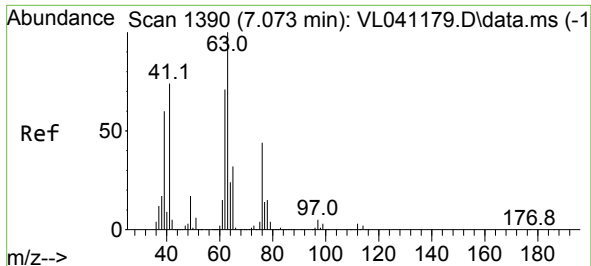
130 100

95 115.3 95.0 142.6

132 96.1 77.0 115.4

97 71.8 59.1 88.7





#39

1,2-Dichloropropane

Concen: 7.857 ppbv

RT: 6.652 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

BA-03-IA02-20240425

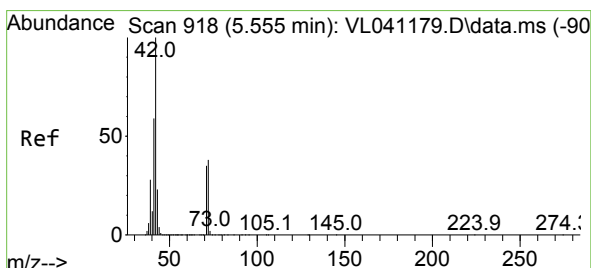
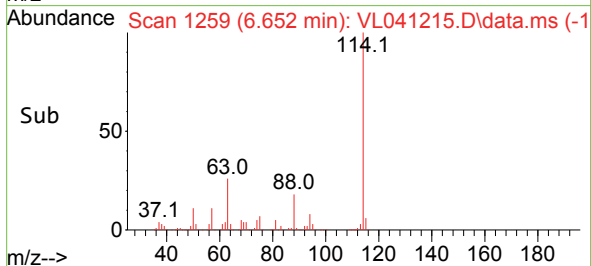
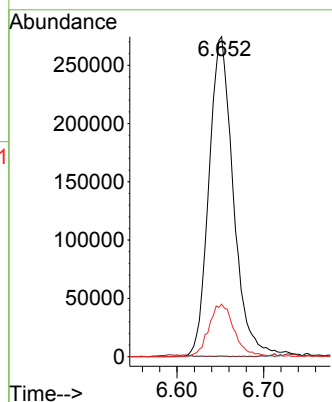
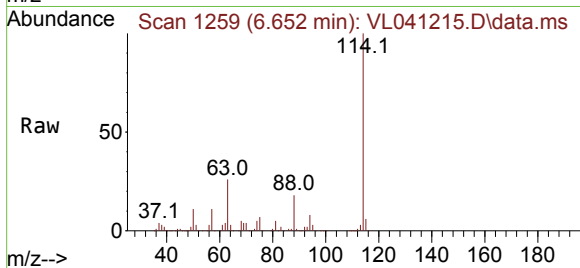
Tgt Ion: 63 Resp: 535676

Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 16.4 56.8 85.2#



#41

Tetrahydrofuran

Concen: 0.063 ppbv

RT: 5.256 min Scan# 825

Delta R.T. -0.302 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

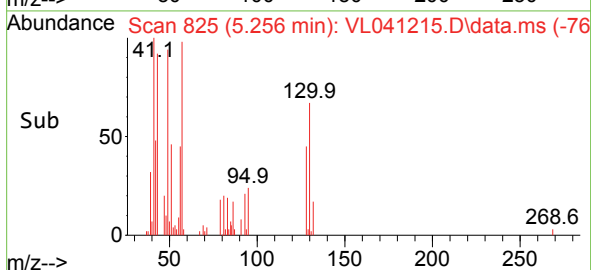
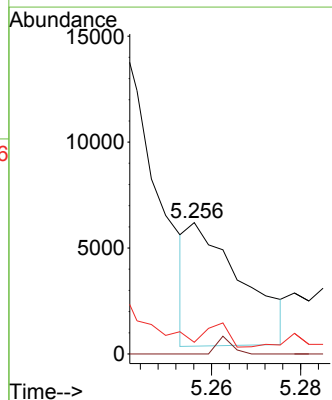
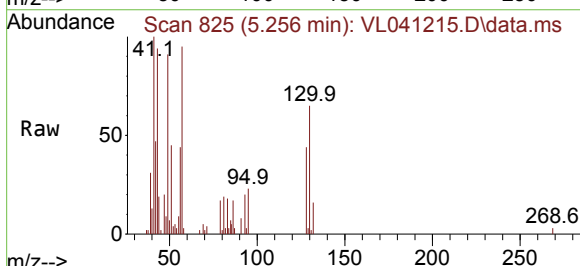
Tgt Ion: 42 Resp: 4906

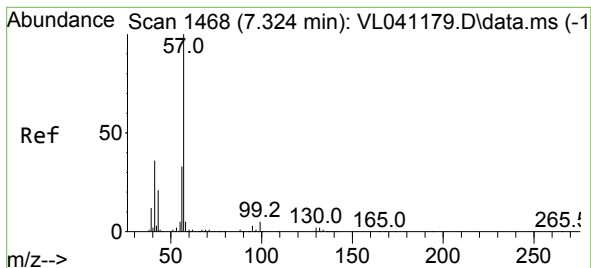
Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

71 0.0 29.1 43.7#





#44

2,2,4-Trimethylpentane

Concen: 0.042 ppbv

RT: 7.324 min Scan# 1468

Delta R.T. -0.003 min

Lab File: VL041215.D

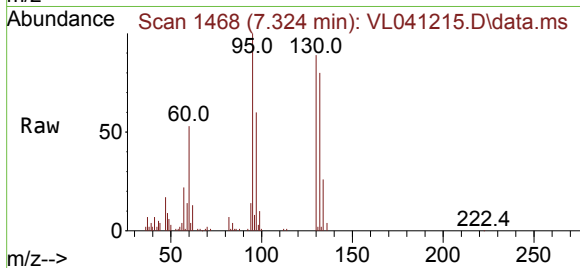
Acq: 6 May 2024 13:01

Instrument :

MSVOA_L

ClientSampleId :

BA-03-IA02-20240425



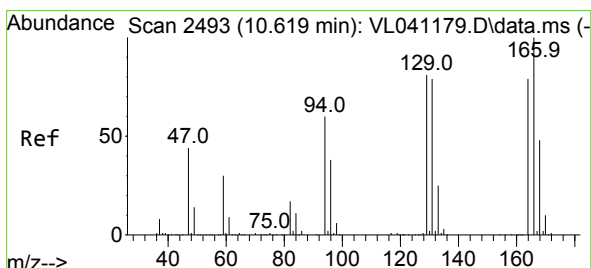
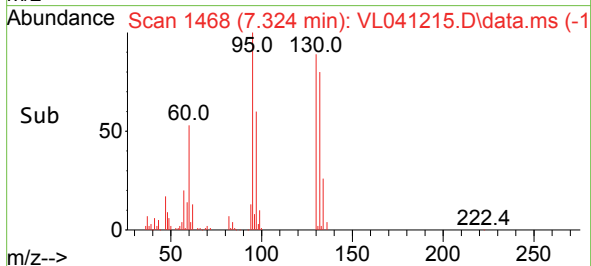
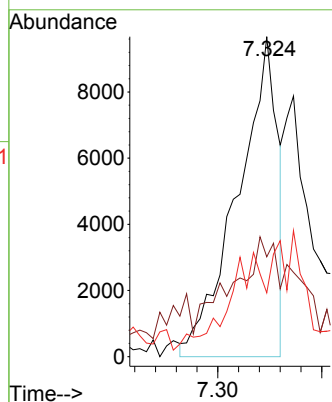
Tgt Ion: 57 Resp: 12897

Ion Ratio Lower Upper

57 100

41 93.8 29.5 44.3#

56 0.0 25.3 37.9#



#52

Tetrachloroethene

Concen: 0.655 ppbv

RT: 10.610 min Scan# 2490

Delta R.T. -0.003 min

Lab File: VL041215.D

Acq: 6 May 2024 13:01

Tgt Ion: 164 Resp: 40714

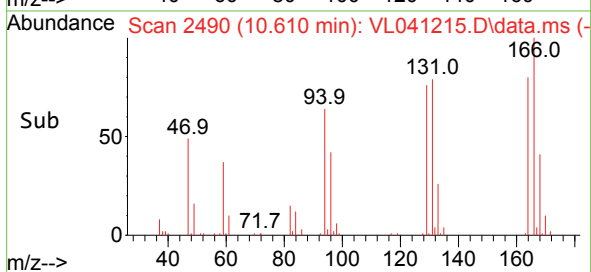
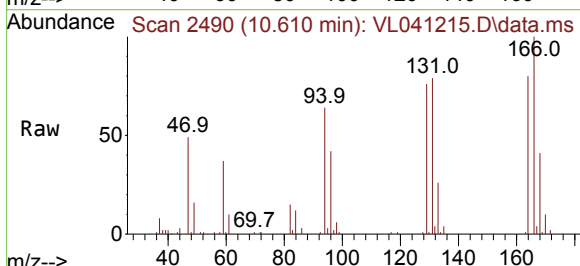
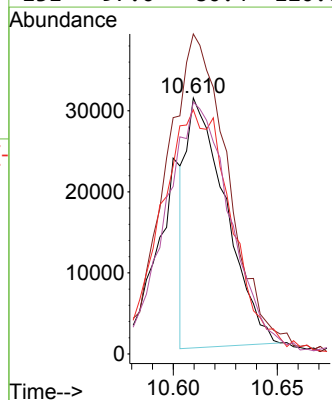
Ion Ratio Lower Upper

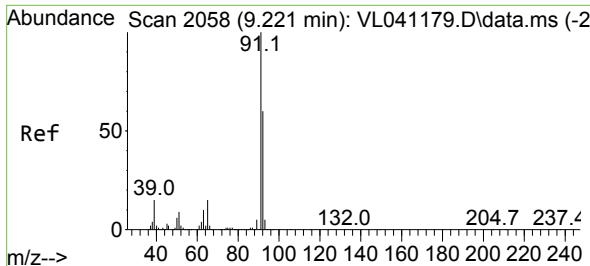
164 100

166 122.5 101.1 151.7

129 93.3 81.7 122.5

131 97.0 80.4 120.6

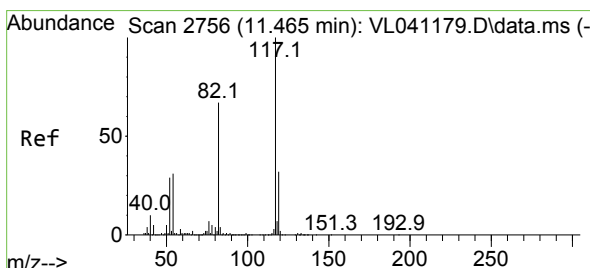
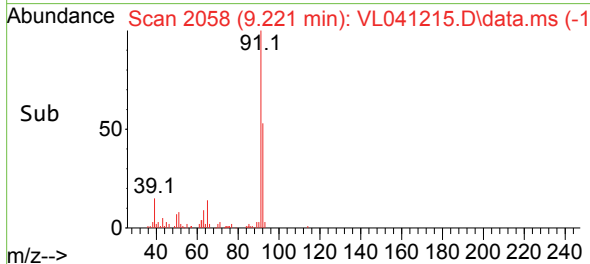
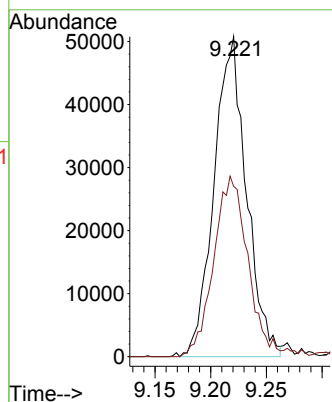
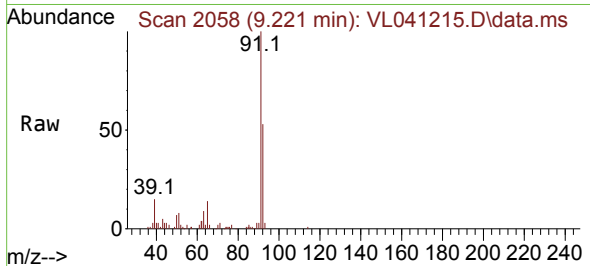




#53
Toluene
Concen: 0.499 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

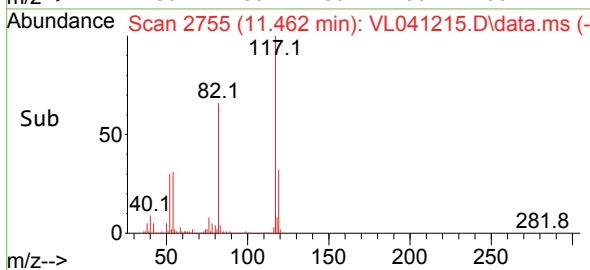
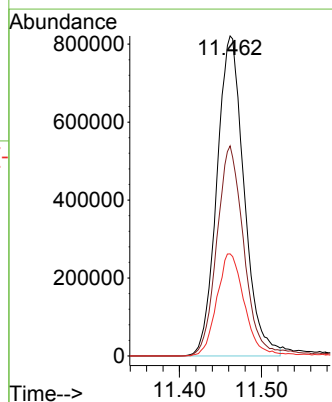
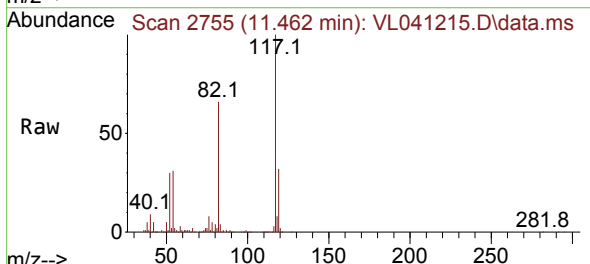
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425

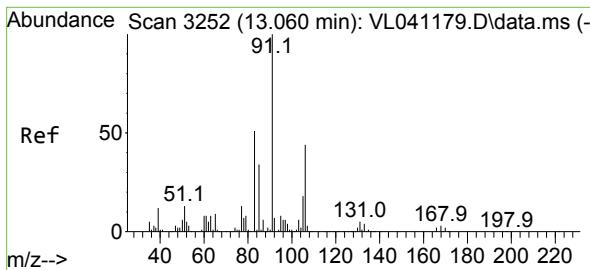
Tgt Ion: 91 Resp: 102394
Ion Ratio Lower Upper
91 100
92 61.3 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 2755
Delta R.T. -0.003 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

Tgt Ion: 117 Resp: 1893755
Ion Ratio Lower Upper
117 100
82 67.2 53.6 80.4
119 33.5 27.2 40.8

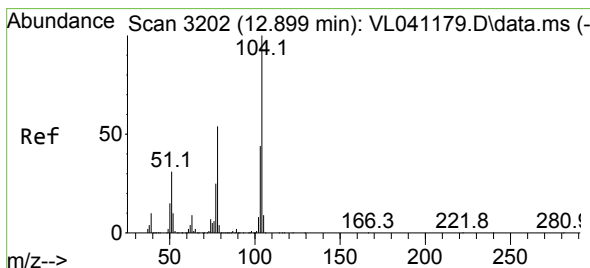
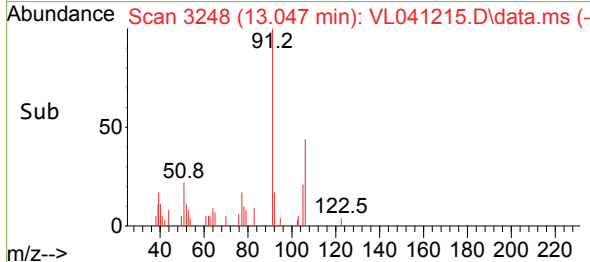
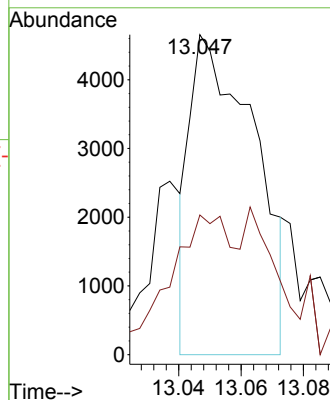
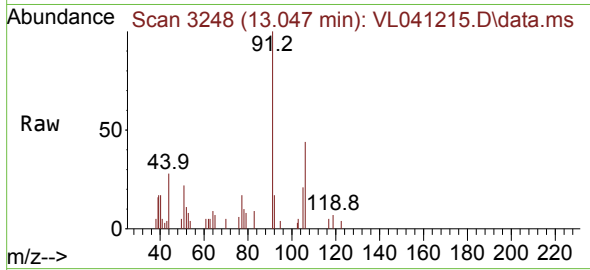




#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.047 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

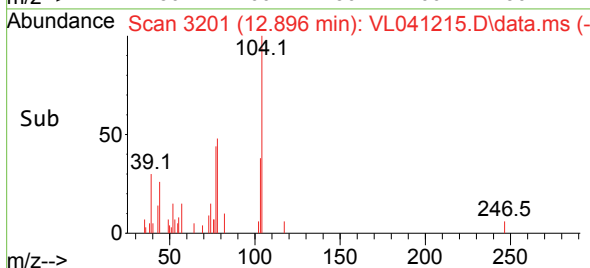
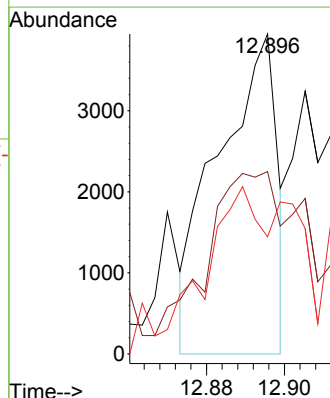
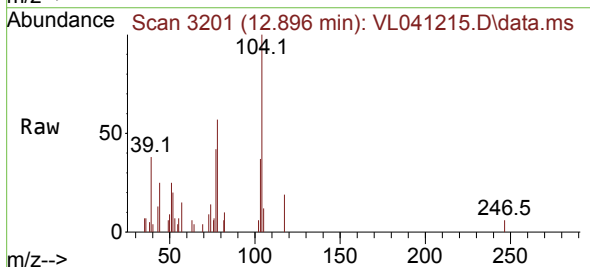
Instrument :
MSVOA_L
ClientSampleId :
BA-03-IA02-20240425

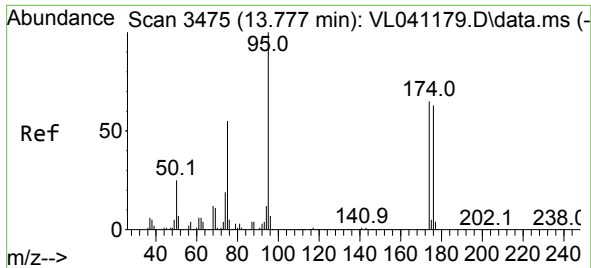
Tgt Ion: 91 Resp: 6663
Ion Ratio Lower Upper
91 100
106 77.8 22.4 67.3#



#61
Styrene
Concen: 0.039 ppbv
RT: 12.896 min Scan# 3201
Delta R.T. 0.000 min
Lab File: VL041215.D
Acq: 6 May 2024 13:01

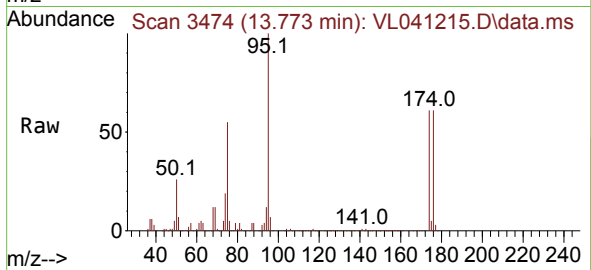
Tgt Ion: 104 Resp: 4162
Ion Ratio Lower Upper
104 100
78 121.2 42.6 63.8#
103 106.8 38.4 57.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.911 ppbv
 RT: 13.773 min Scan# 34
 Delta R.T. 0.000 min
 Lab File: VL041215.D
 Acq: 6 May 2024 13:01

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-03-IA02-20240425



Tgt Ion: 95 Resp: 1416959

Ion	Ratio	Lower	Upper
95	100		
174	67.0	53.6	80.4
175	4.7	4.2	6.4

