

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041443.D
 Acq On : 30 Jul 2024 00:30
 Operator : SY/MD
 Sample : P3342-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:56:50 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	1121284	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.655	114	3012636	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2747809	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2126201	10.055	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%

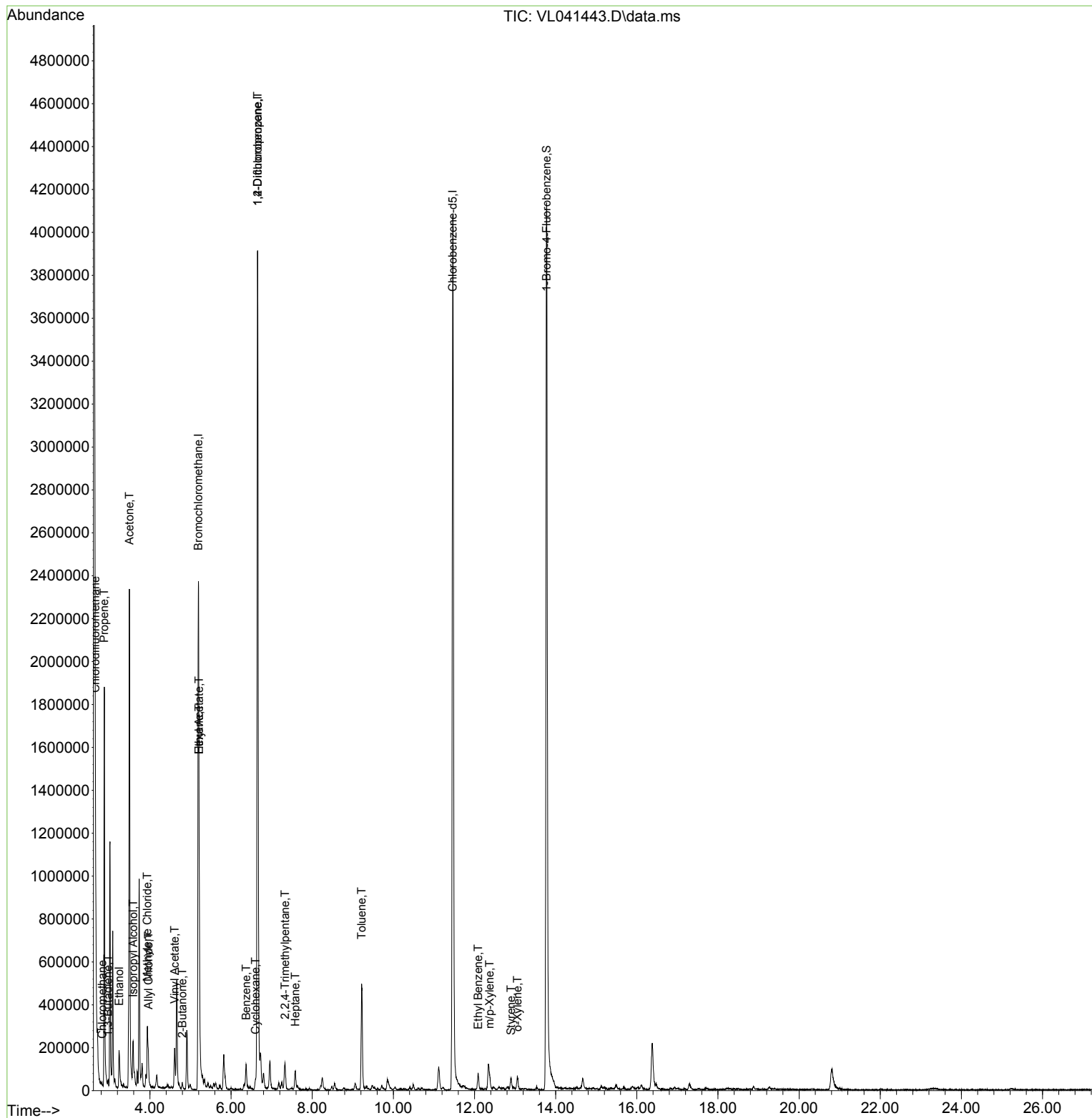
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.655	51	9937	0.074	ppbv #	85
4) Chloromethane	2.822	50	5430	0.076	ppbv	92
9) Propene	2.873	41	520003	8.480	ppbv	96
10) Heptane	7.584	43	19289	0.140	ppbv #	29
13) Ethanol	3.240	45	187543	34.219	ppbv	88
15) Acetone	3.494	43	961386	7.546	ppbv #	65
16) 1,3-Butadiene	2.963	39	3709	0.054	ppbv #	29
19) Isopropyl Alcohol	3.587	45	224837	3.019	ppbv	99
20) Methylene Chloride	3.938	84	82720	1.741	ppbv	98
21) Allyl Chloride	3.963	41	21121	0.253	ppbv #	41
23) Vinyl Acetate	4.610	43	66697	0.685	ppbv #	1
25) Ethyl Acetate	5.211	43	207736	0.821	ppbv #	91
26) Hexane	5.211	57	198526	1.891	ppbv #	49
30) Cyclohexane	6.603	84	4162	0.049	ppbv #	1
34) 2-Butanone	4.799	43	29513	0.203	ppbv	92
36) Benzene	6.375	78	79316	0.360	ppbv #	93
39) 1,2-Dichloropropane	6.655	63	755017	8.959	ppbv #	25
44) 2,2,4-Trimethylpentane	7.330	57	97231	0.264	ppbv #	82
53) Toluene	9.217	91	385631	1.573	ppbv	100
58) Ethyl Benzene	12.092	91	61838	0.195	ppbv	99
59) m/p-Xylene	12.371	91	28570	0.104	ppbv #	31
60) o-Xylene	13.056	91	29440	0.114	ppbv #	61
61) Styrene	12.899	104	18798	0.161	ppbv #	49

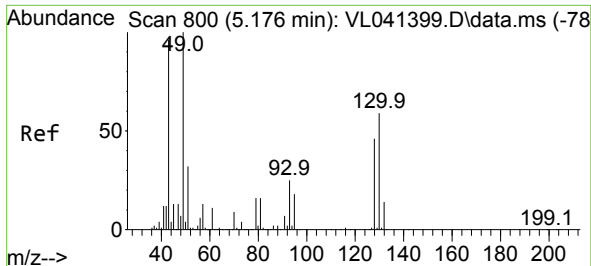
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
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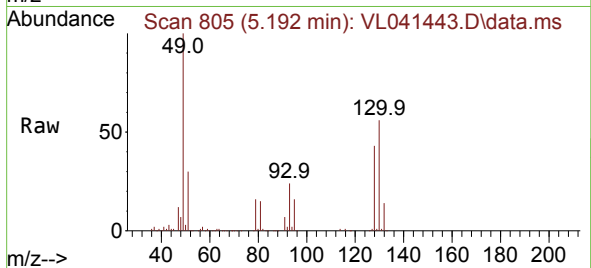
Quant Time: Jul 30 02:56:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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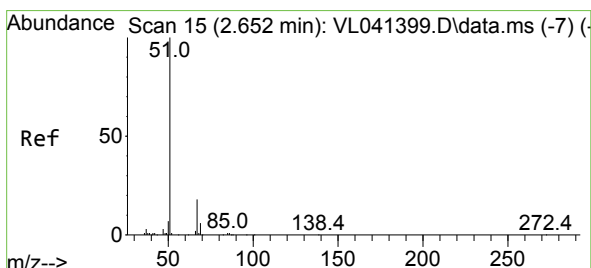
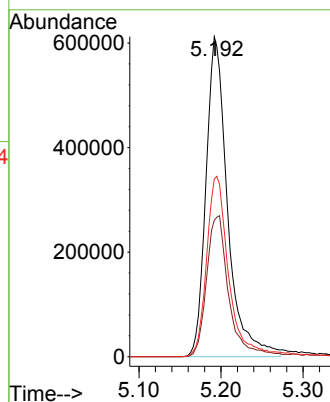
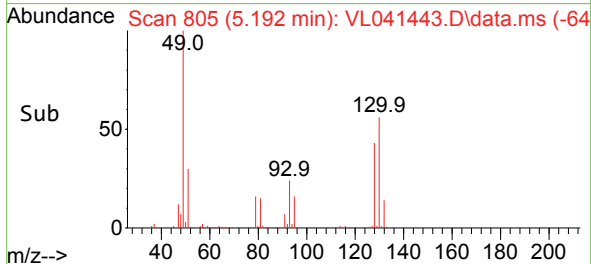


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

Instrument :
MSVOA_L
ClientSampleId :

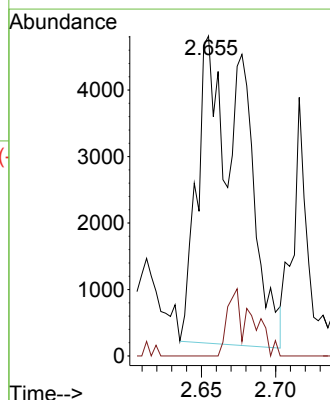
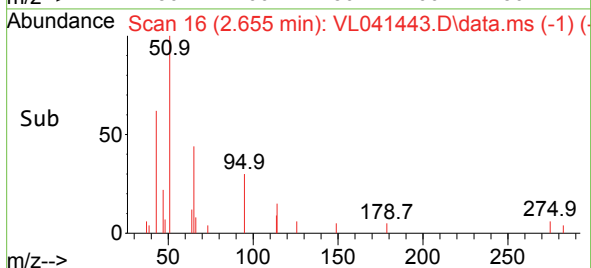
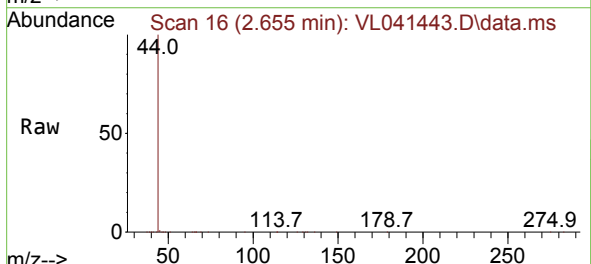


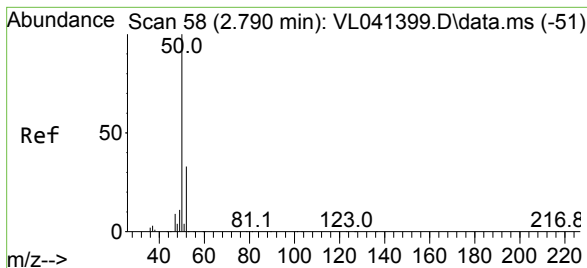
Tgt Ion: 49 Resp: 1121284
Ion Ratio Lower Upper
49 100
128 46.3 23.8 71.4
130 59.0 30.8 92.4



#3
Chlorodifluoromethane
Concen: 0.074 ppbv
RT: 2.655 min Scan# 16
Delta R.T. -0.000 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

Tgt Ion: 51 Resp: 9937
Ion Ratio Lower Upper
51 100
67 11.6 14.5 21.7#

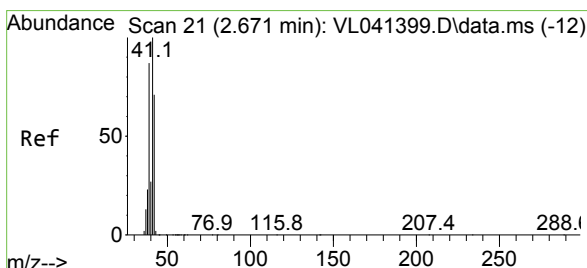
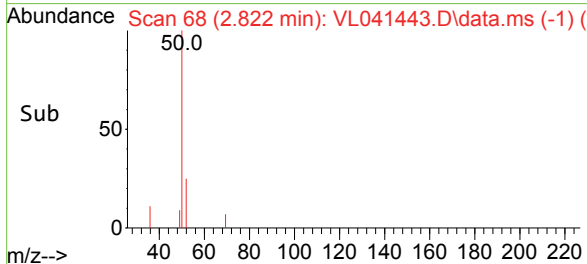
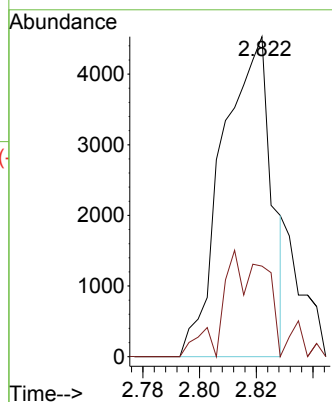
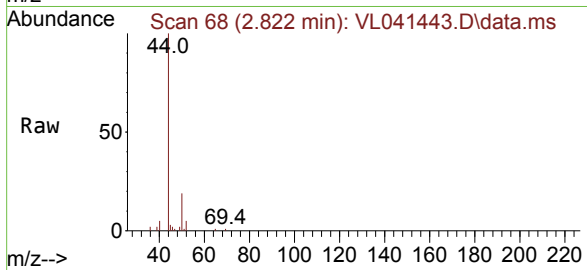




#4
Chloromethane
Concen: 0.076 ppbv
RT: 2.822 min Scan# 61
Delta R.T. 0.029 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

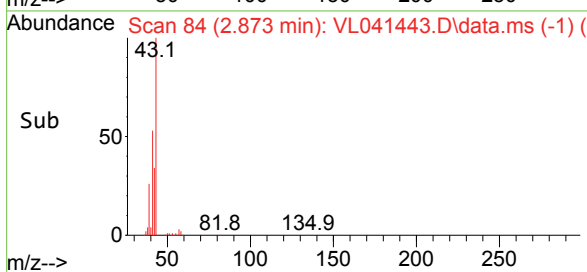
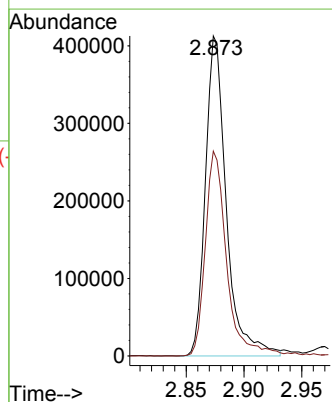
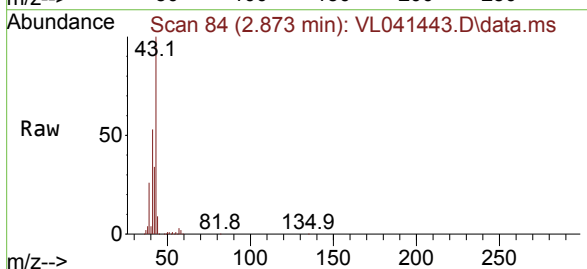
Instrument :
MSVOA_L
ClientSampleId :

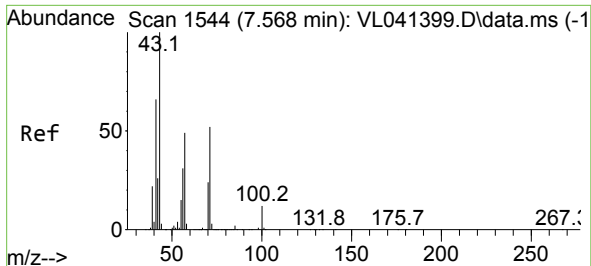
Tgt Ion: 50 Resp: 5430
Ion Ratio Lower Upper
50 100
52 28.3 26.1 39.1



#9
Propene
Concen: 8.480 ppbv
RT: 2.873 min Scan# 84
Delta R.T. 0.202 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

Tgt Ion: 41 Resp: 520003
Ion Ratio Lower Upper
41 100
42 66.4 55.9 83.9

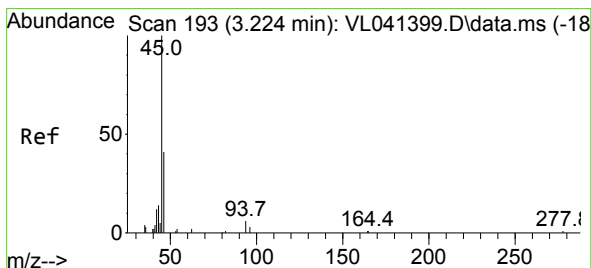
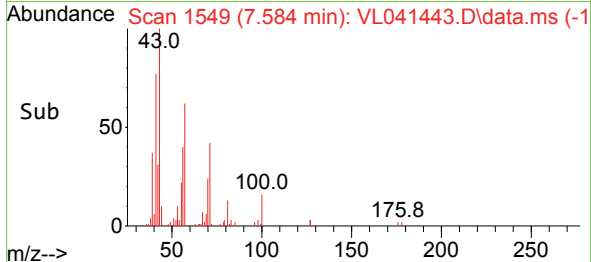
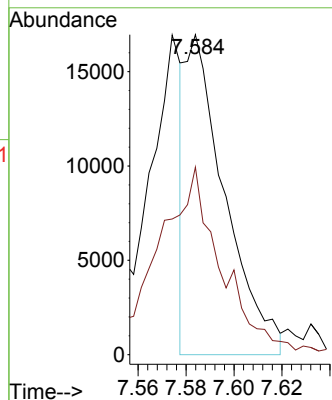
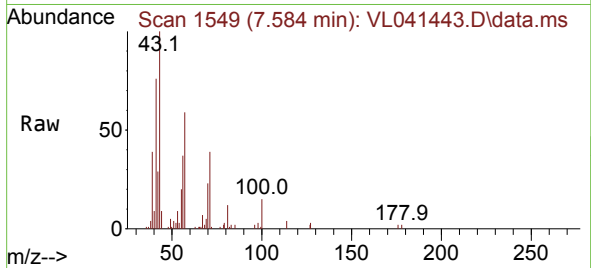




#10
 Heptane
 Concen: 0.140 ppbv
 RT: 7.584 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL041443.D
 Acq: 30 Jul 2024 00:30

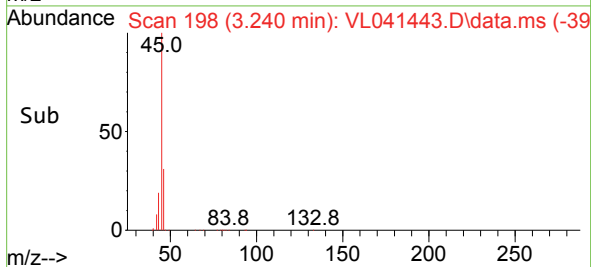
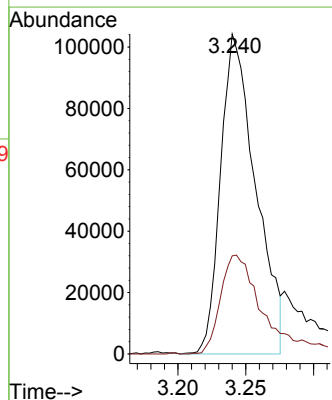
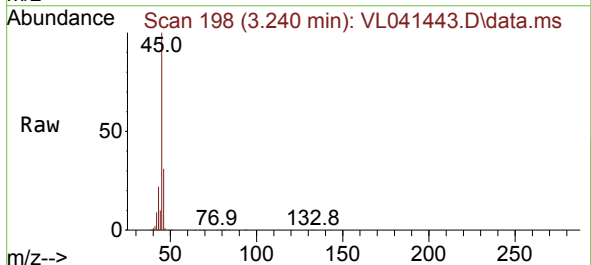
Instrument :
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 ClientSampleId :

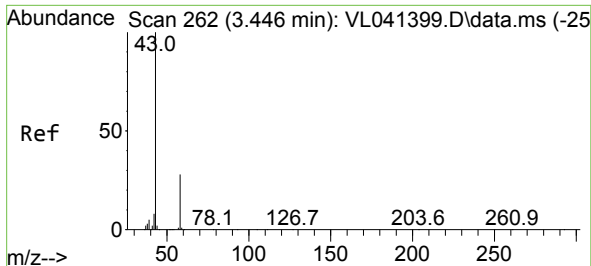
Tgt Ion: 43 Resp: 19289
 Ion Ratio Lower Upper
 43 100
 57 99.7 40.5 60.7#



#13
 Ethanol
 Concen: 34.219 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. 0.013 min
 Lab File: VL041443.D
 Acq: 30 Jul 2024 00:30

Tgt Ion: 45 Resp: 187543
 Ion Ratio Lower Upper
 45 100
 46 40.4 13.4 53.4

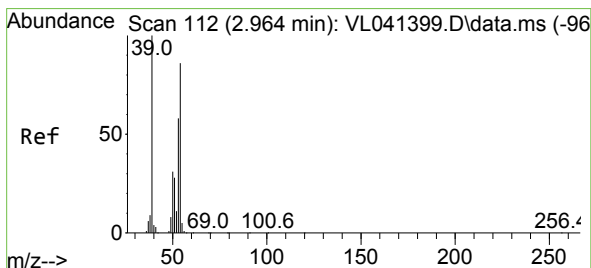
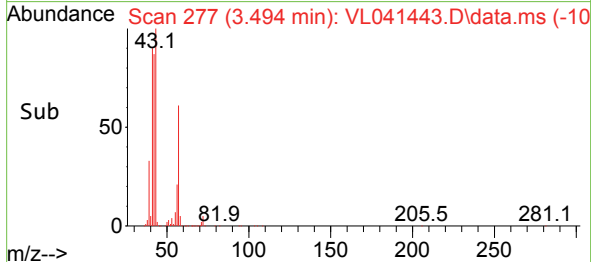
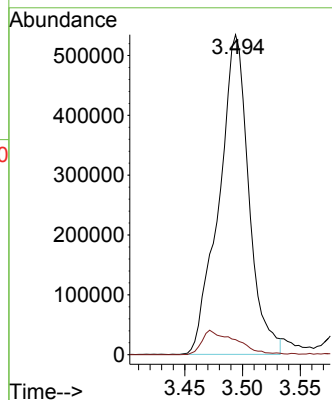
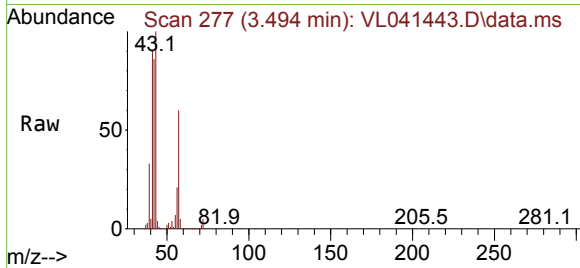




#15
Acetone
Concen: 7.546 ppbv
RT: 3.494 min Scan# 21
Delta R.T. 0.042 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

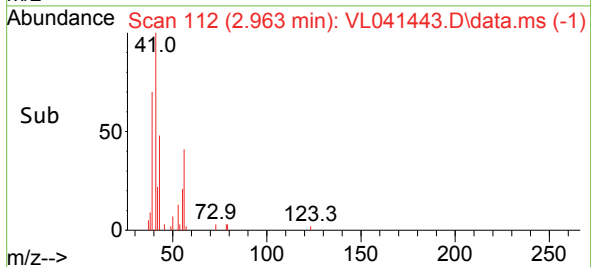
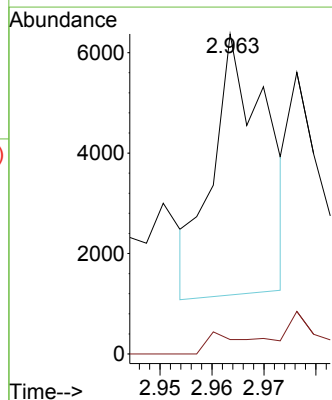
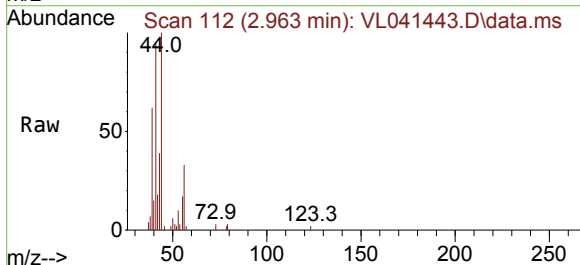
Instrument :
MSVOA_L
ClientSampleId :

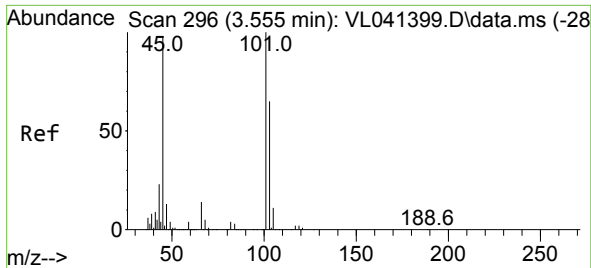
Tgt Ion: 43 Resp: 961386
Ion Ratio Lower Upper
43 100
58 8.9 21.4 32.2#



#16
1,3-Butadiene
Concen: 0.054 ppbv
RT: 2.963 min Scan# 112
Delta R.T. -0.003 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

Tgt Ion: 39 Resp: 3709
Ion Ratio Lower Upper
39 100
54 16.1 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 3.019 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.026 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Instrument :

MSVOA_L

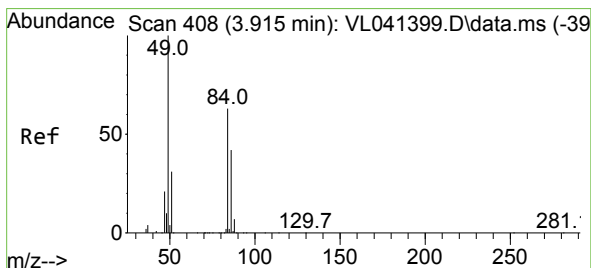
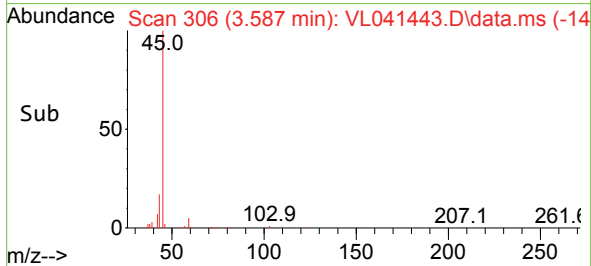
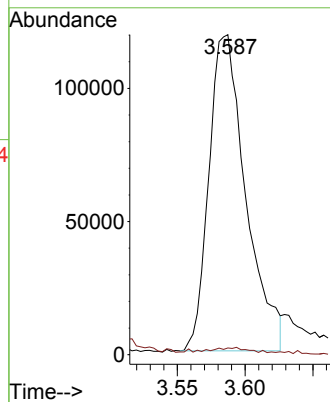
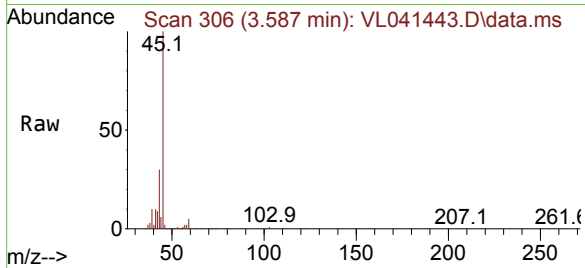
ClientSampleId :

Tgt Ion: 45 Resp: 224837

Ion Ratio Lower Upper

45 100

58 2.7 1.9 2.9



#20

Methylene Chloride

Concen: 1.741 ppbv

RT: 3.938 min Scan# 415

Delta R.T. 0.019 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Tgt Ion: 84 Resp: 82720

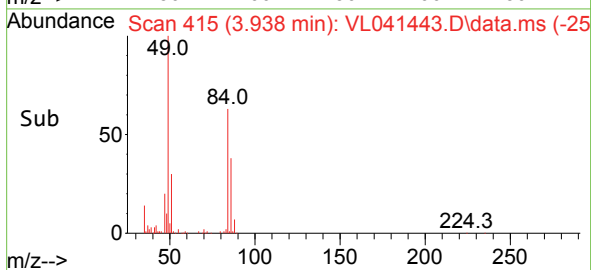
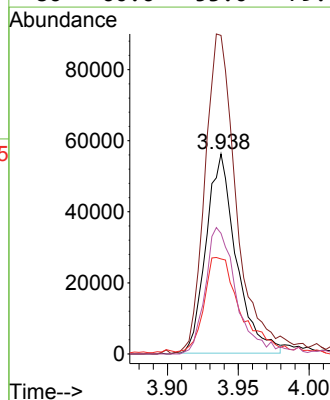
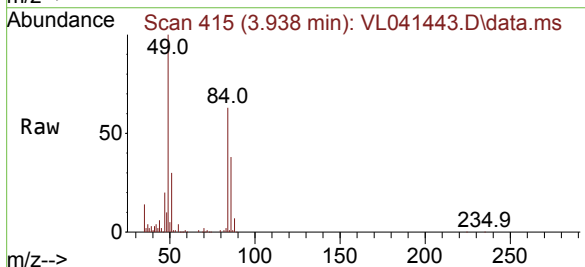
Ion Ratio Lower Upper

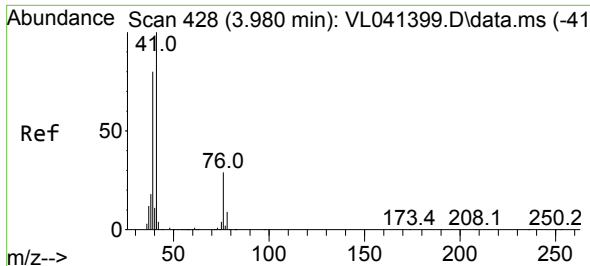
84 100

49 158.8 126.6 190.0

51 46.2 38.6 58.0

86 60.6 53.0 79.4

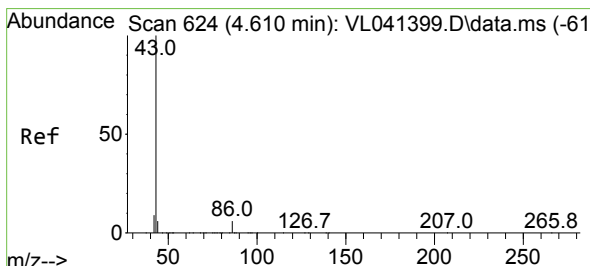
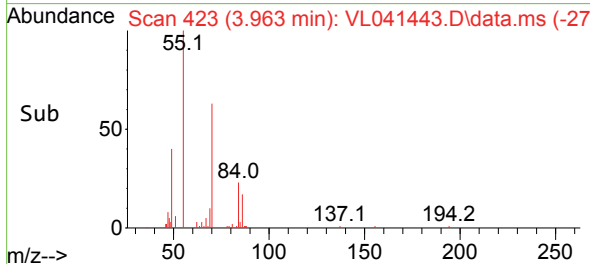
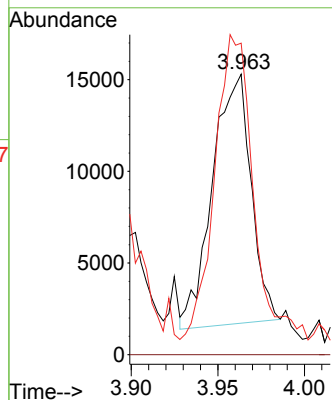
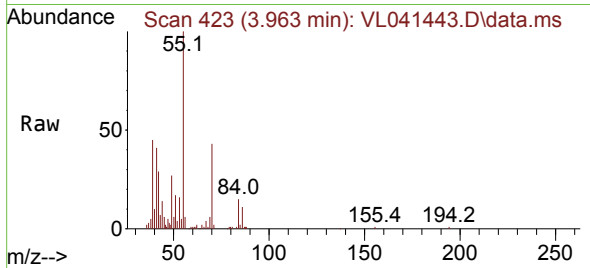




#21
 Allyl Chloride
 Concen: 0.253 ppbv
 RT: 3.963 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL041443.D
 Acq: 30 Jul 2024 00:30

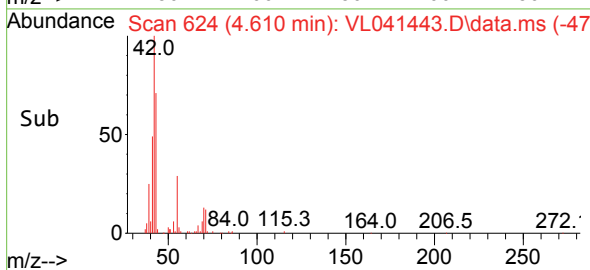
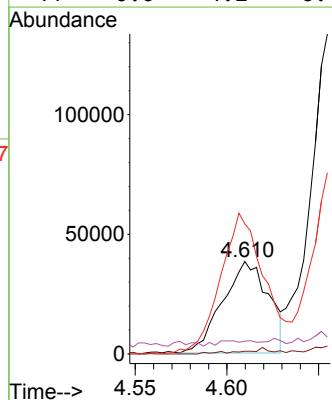
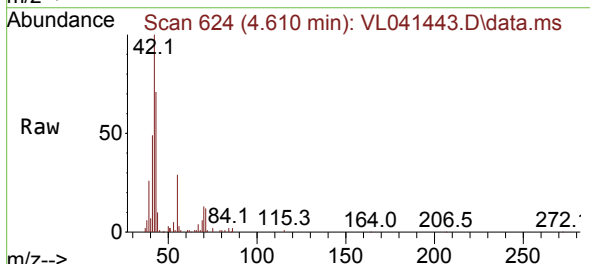
Instrument :
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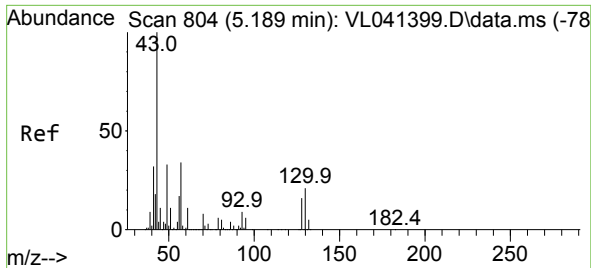
Tgt Ion: 41 Resp: 21121
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 133.4 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.685 ppbv
 RT: 4.610 min Scan# 624
 Delta R.T. -0.003 min
 Lab File: VL041443.D
 Acq: 30 Jul 2024 00:30

Tgt Ion: 43 Resp: 66697
 Ion Ratio Lower Upper
 43 100
 86 3.0 4.6 6.8#
 42 136.7 7.9 11.9#
 44 0.0 4.2 6.4#

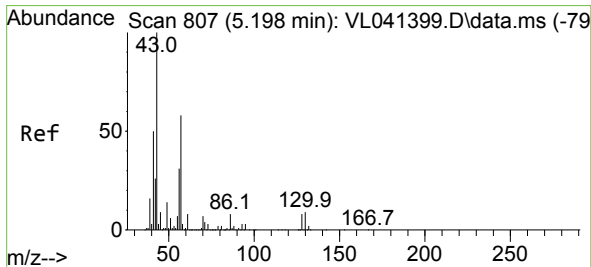
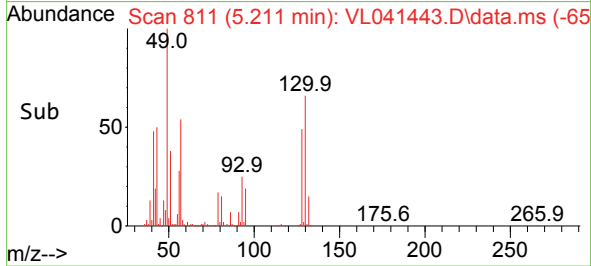
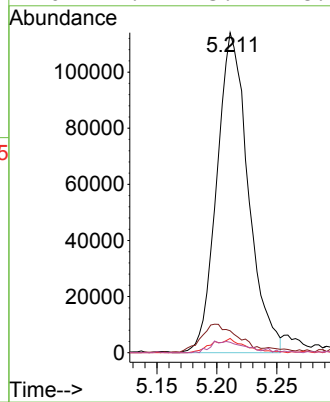
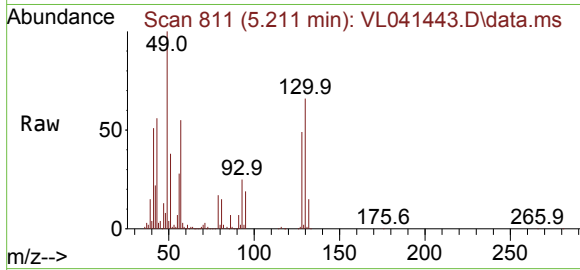




#25
Ethyl Acetate
Concen: 0.821 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

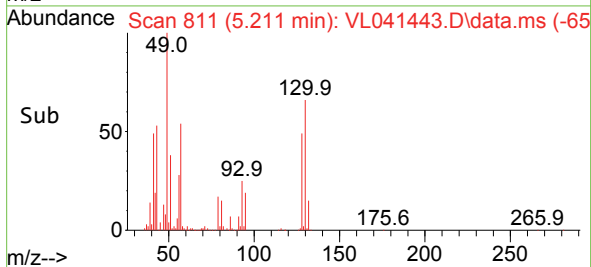
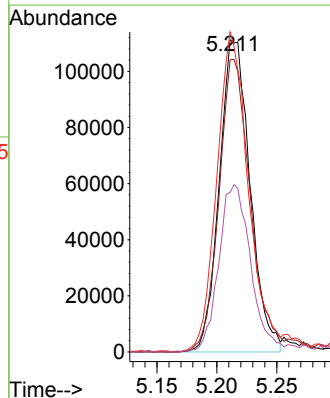
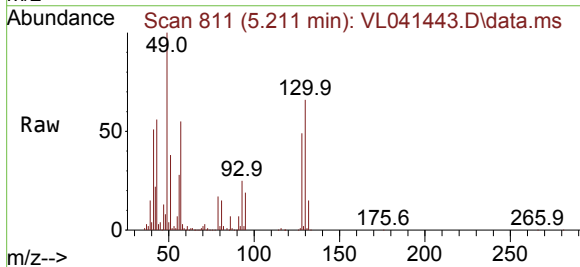
Instrument :
MSVOA_L
ClientSampleId :

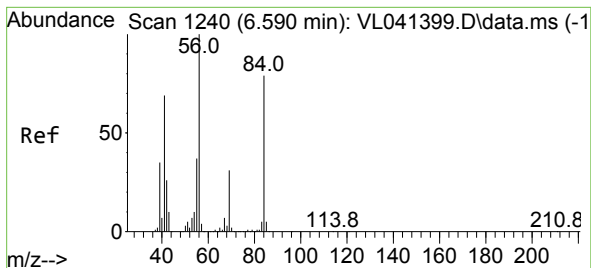
Tgt Ion: 43	Resp: 207736
Ion Ratio	Lower Upper
43 100	
45 12.4	8.5 12.7
61 4.8	8.0 12.0#
70 4.2	5.9 8.9#



#26
Hexane
Concen: 1.891 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

Tgt	Ion: 57	Resp:	198526
Ion	Ratio	Lower	Upper
57	100		
41	98.3	74.0	111.0
43	108.8	193.6	290.4#
56	56.7	43.1	64.7





#30

Cyclohexane

Concen: 0.049 ppbv

RT: 6.603 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Instrument :

MSVOA_L

ClientSampleId :

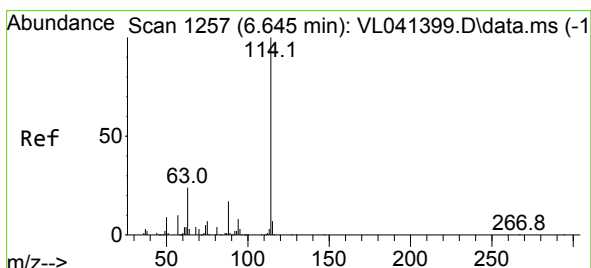
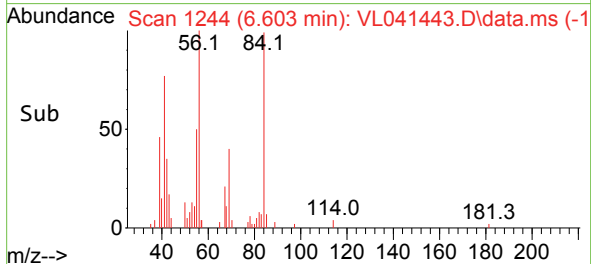
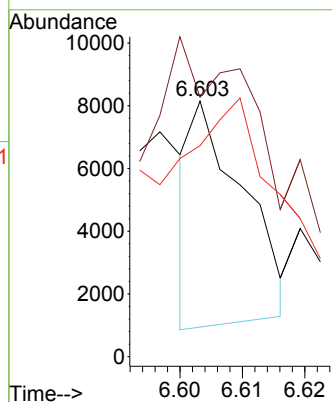
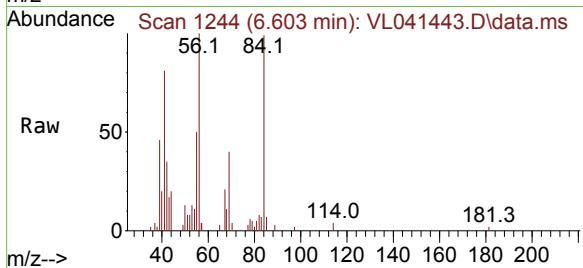
Tgt Ion: 84 Resp: 4162

Ion Ratio Lower Upper

84 100

56 431.3 111.2 166.8#

41 373.6 70.3 105.5#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. 0.010 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

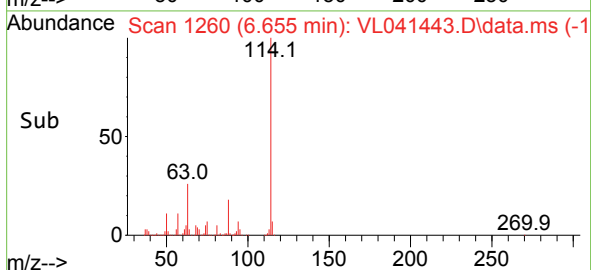
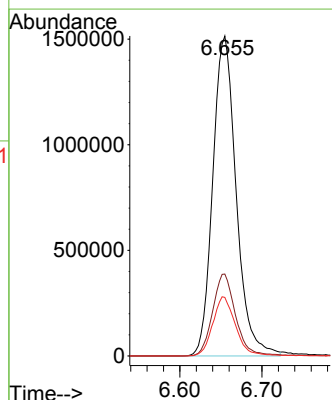
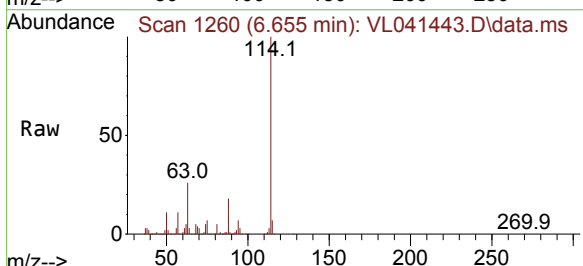
Tgt Ion: 114 Resp: 3012636

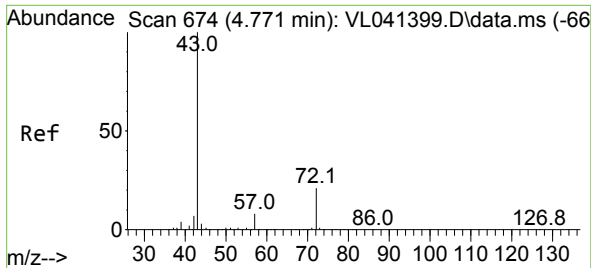
Ion Ratio Lower Upper

114 100

63 25.5 20.3 30.5

88 18.1 14.3 21.5

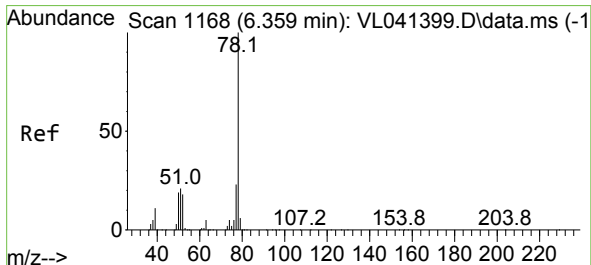
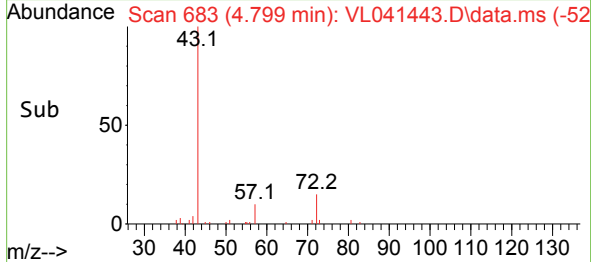
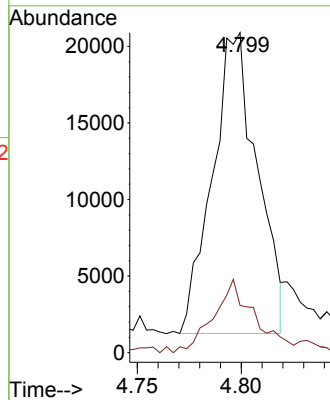
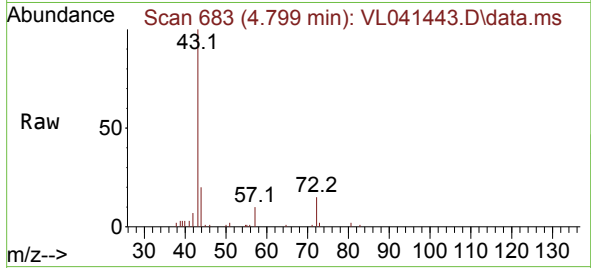




#34
2-Butanone
Concen: 0.203 ppbv
RT: 4.799 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

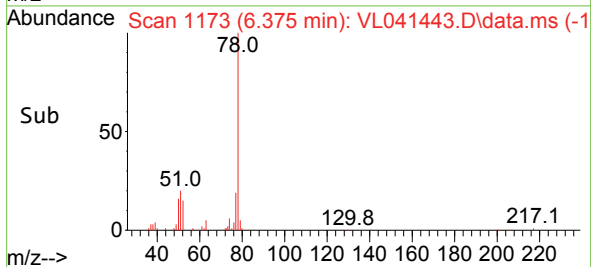
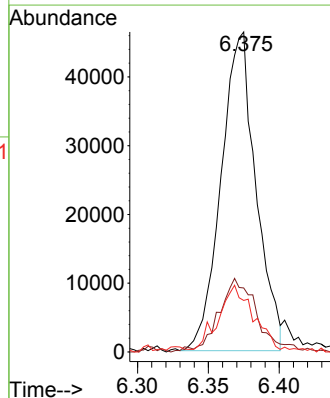
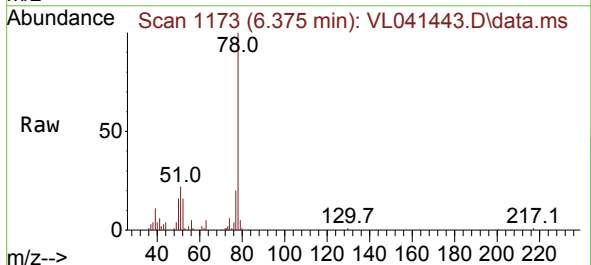
Instrument :
MSVOA_L
ClientSampleId :

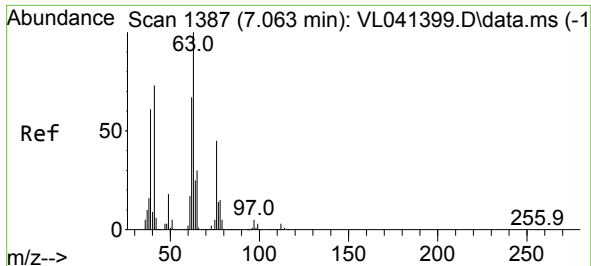
Tgt Ion: 43 Resp: 29513
Ion Ratio Lower Upper
43 100
72 25.4 17.3 25.9



#36
Benzene
Concen: 0.360 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. 0.016 min
Lab File: VL041443.D
Acq: 30 Jul 2024 00:30

Tgt Ion: 78 Resp: 79316
Ion Ratio Lower Upper
78 100
77 19.7 18.1 27.1
50 15.4 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 8.959 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.408 min

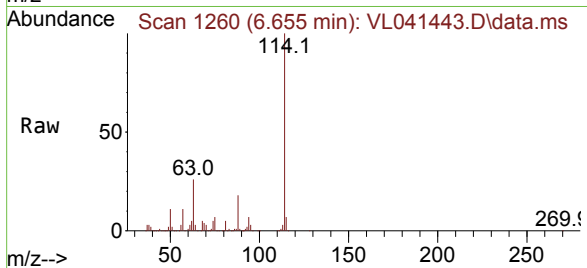
Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Instrument :

MSVOA_L

ClientSampleId :



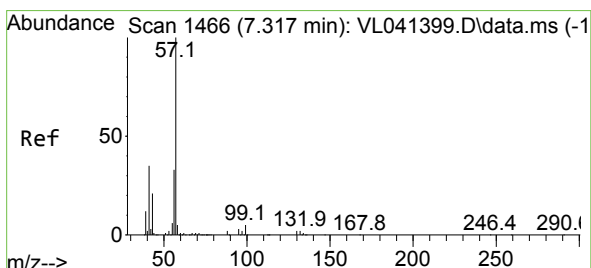
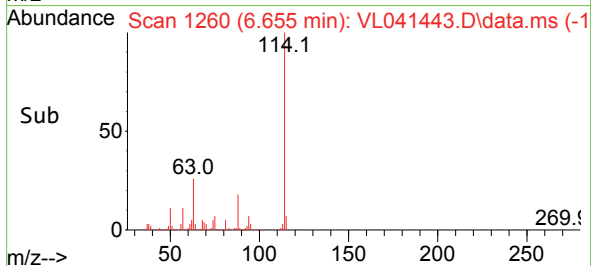
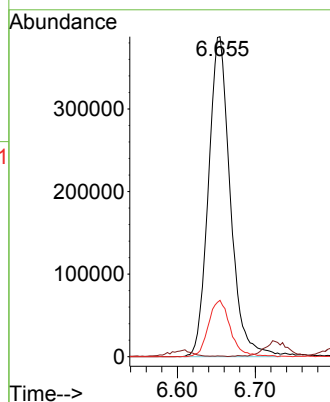
Tgt Ion: 63 Resp: 755017

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 17.6 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.264 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.013 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

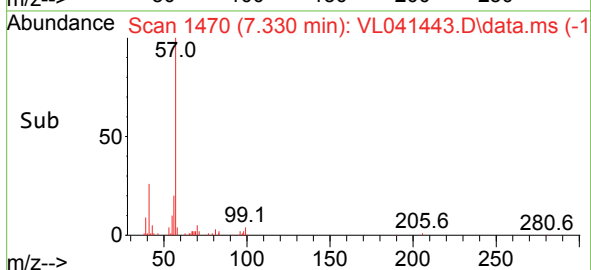
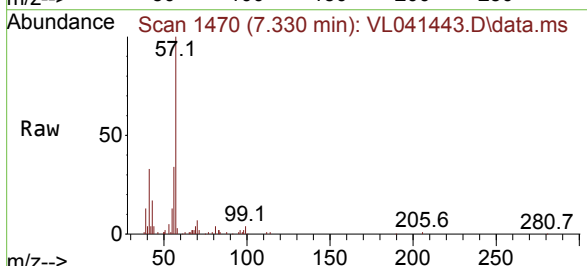
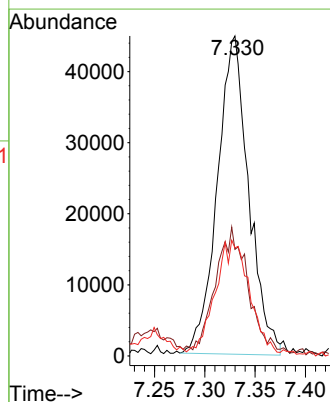
Tgt Ion: 57 Resp: 97231

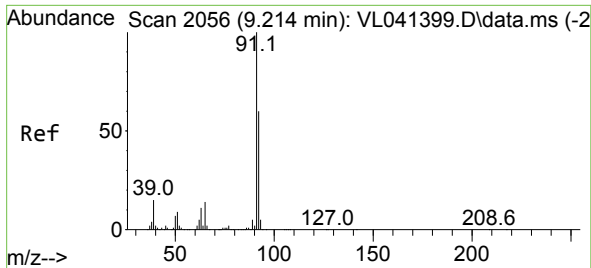
Ion Ratio Lower Upper

57 100

41 44.4 27.0 40.6#

56 41.2 25.2 37.8#





#53

Toluene

Concen: 1.573 ppbv

RT: 9.217 min Scan# 2056

Delta R.T. -0.000 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Instrument :

MSVOA_L

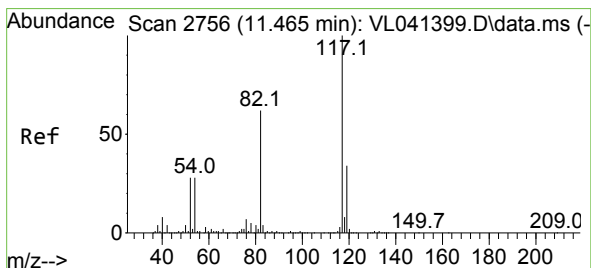
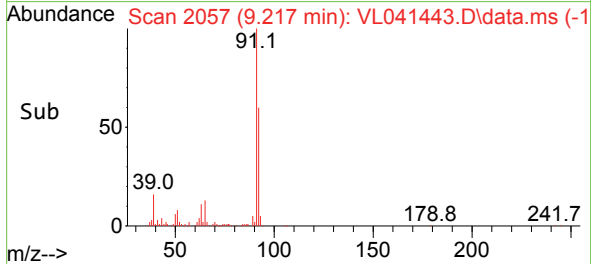
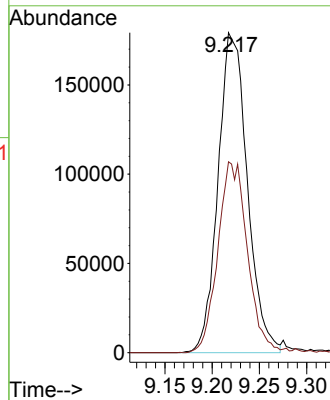
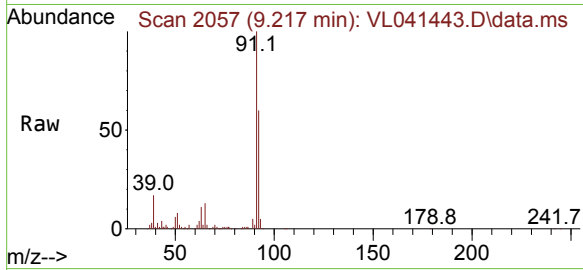
ClientSampleId :

Tgt Ion: 91 Resp: 385631

Ion Ratio Lower Upper

91 100

92 61.1 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 2756

Delta R.T. -0.000 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

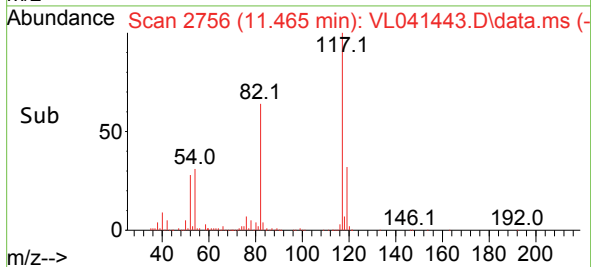
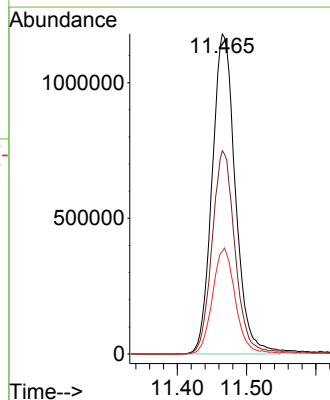
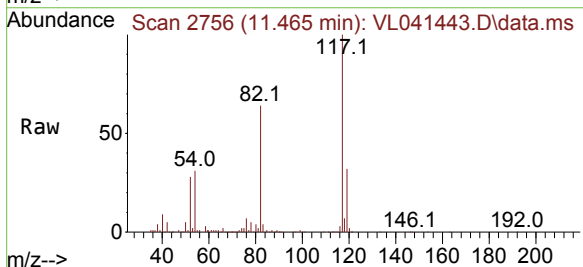
Tgt Ion: 117 Resp: 2747809

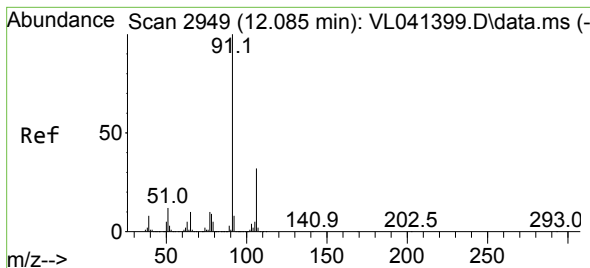
Ion Ratio Lower Upper

117 100

82 64.1 51.0 76.6

119 33.0 45.2 67.8#





#58

Ethyl Benzene

Concen: 0.195 ppbv

RT: 12.092 min Scan# 2949

Delta R.T. 0.006 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Instrument :

MSVOA_L

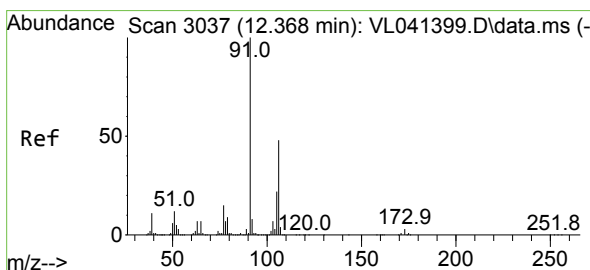
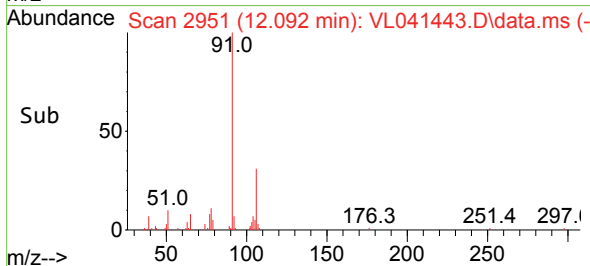
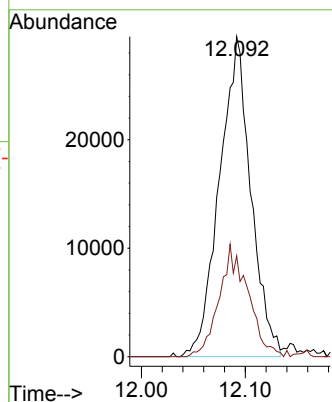
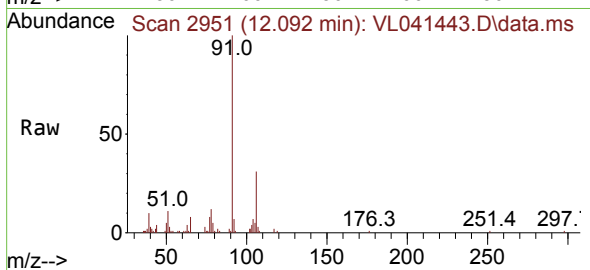
ClientSampleId :

Tgt Ion: 91 Resp: 61838

Ion Ratio Lower Upper

91 100

106 31.5 25.8 38.8



#59

m/p-Xylene

Concen: 0.104 ppbv

RT: 12.371 min Scan# 3038

Delta R.T. 0.003 min

Lab File: VL041443.D

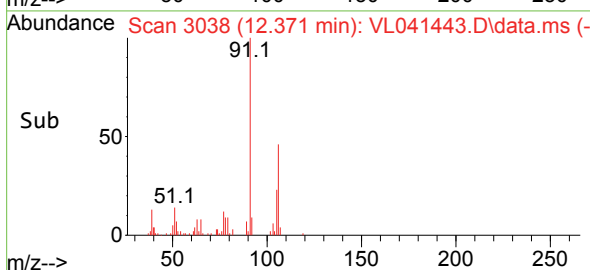
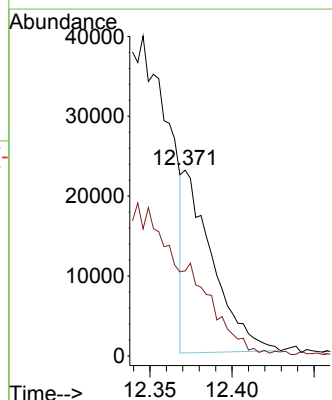
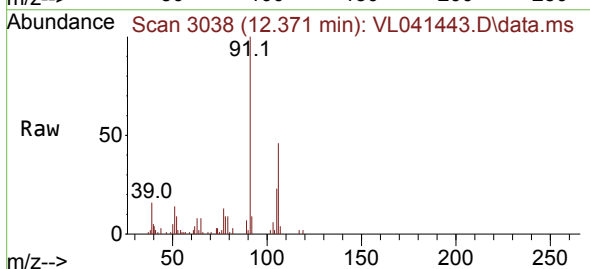
Acq: 30 Jul 2024 00:30

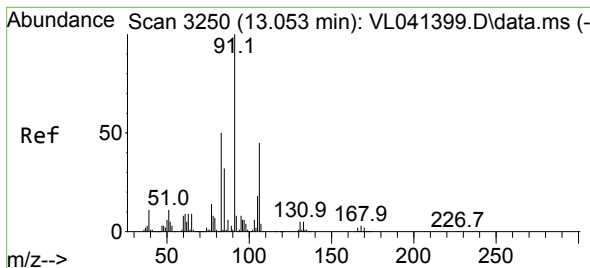
Tgt Ion: 91 Resp: 28570

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#





#60

o-Xylene

Concen: 0.114 ppbv

RT: 13.056 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

Instrument :

MSVOA_L

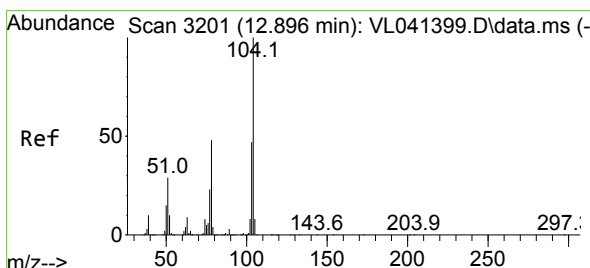
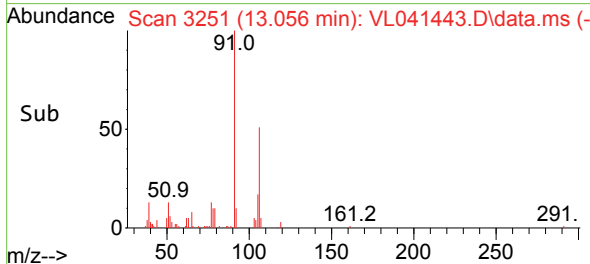
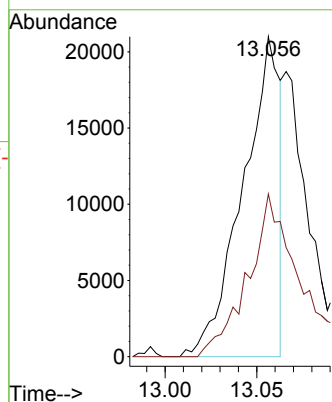
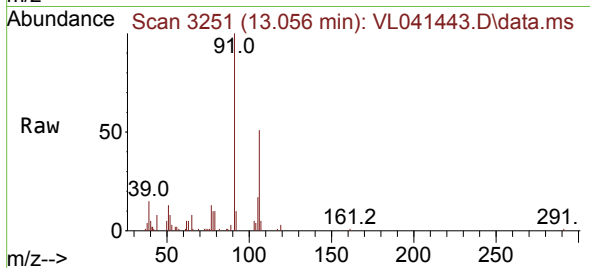
ClientSampleId :

Tgt Ion: 91 Resp: 29440

Ion Ratio Lower Upper

91 100

106 71.8 23.1 69.3#



#61

Styrene

Concen: 0.161 ppbv

RT: 12.899 min Scan# 3202

Delta R.T. 0.003 min

Lab File: VL041443.D

Acq: 30 Jul 2024 00:30

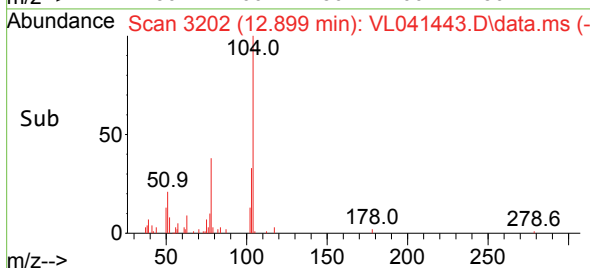
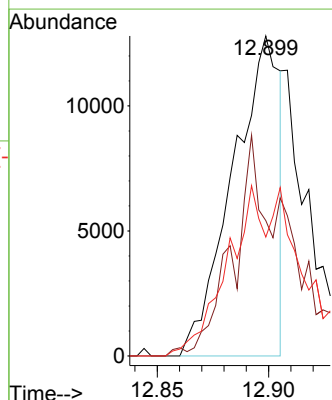
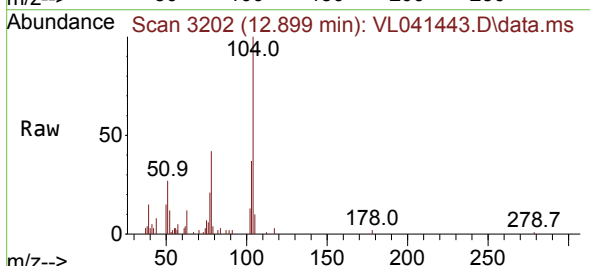
Tgt Ion: 104 Resp: 18798

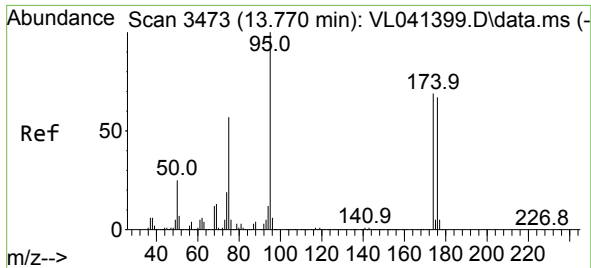
Ion Ratio Lower Upper

104 100

78 85.4 40.8 61.2#

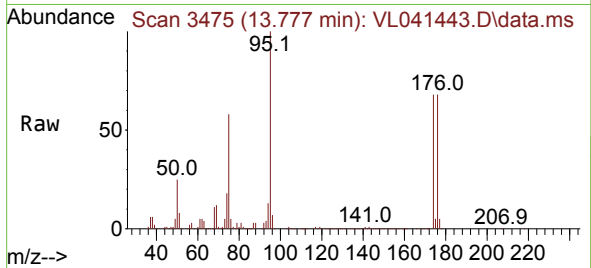
103 83.0 38.2 57.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.055 ppbv
 RT: 13.777 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL041443.D
 Acq: 30 Jul 2024 00:30

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 2126201

Ion	Ratio	Lower	Upper
95	100		
174	71.2	56.3	84.5
175	5.1	4.0	6.0

