

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061124\
 Data File : VL041346.D
 Acq On : 11 Jun 2024 14:17
 Operator : SY/MD
 Sample : P2837-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 12 01:23:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 12 01:18:29 2024
 Response via : Initial Calibration

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

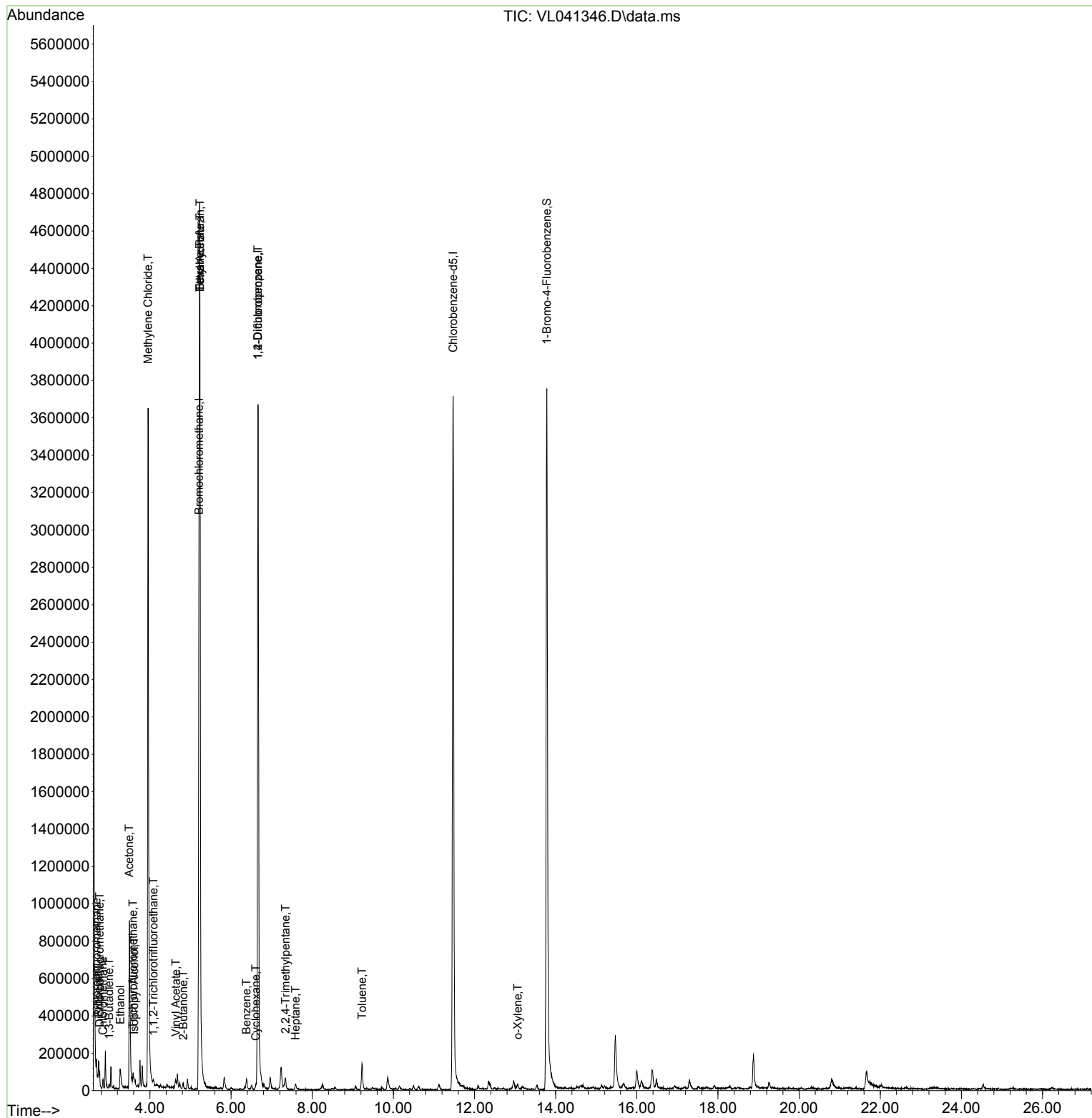
Internal Standards						
1) Bromochloromethane	5.208	49	1095932	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2861996	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2573608	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1909697	9.611	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	50163	0.287	ppbv	94
3) Chlorodifluoromethane	2.684	51	109022	0.629	ppbv #	76
4) Chloromethane	2.841	50	36903	0.566	ppbv	99
9) Propene	2.732	41	32683	0.530	ppbv	83
10) Heptane	7.587	43	6470	0.044	ppbv #	1
11) Trichlorofluoromethane	3.584	101	35265	0.219	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.089	101	6919	0.061	ppbv	83
13) Ethanol	3.272	45	139648	8.701	ppbv	99
15) Acetone	3.491	43	987867	7.895	ppbv	99
16) 1,3-Butadiene	2.996	39	5151	0.082	ppbv #	68
19) Isopropyl Alcohol	3.610	45	35401	0.450	ppbv #	1
20) Methylene Chloride	3.954	84	1205807	26.513	ppbv	98
23) Vinyl Acetate	4.639	43	7596	0.059	ppbv #	55
25) Ethyl Acetate	5.230	43	1242433	5.019	ppbv #	77
26) Hexane	5.227	57	1743685	15.664	ppbv #	40
30) Cyclohexane	6.606	84	3500	0.039	ppbv #	1
34) 2-Butanone	4.819	43	33125	0.242	ppbv	91
36) Benzene	6.381	78	37777	0.170	ppbv #	91
39) 1,2-Dichloropropane	6.664	63	701851	7.946	ppbv #	24
41) Tetrahydrofuran	5.230	42	647093	7.253	ppbv #	50
44) 2,2,4-Trimethylpentane	7.340	57	51042	0.134	ppbv #	83
53) Toluene	9.227	91	54548	0.214	ppbv #	20
60) o-Xylene	13.063	91	11601	0.043	ppbv #	61

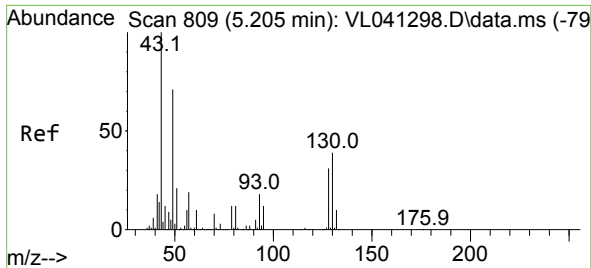
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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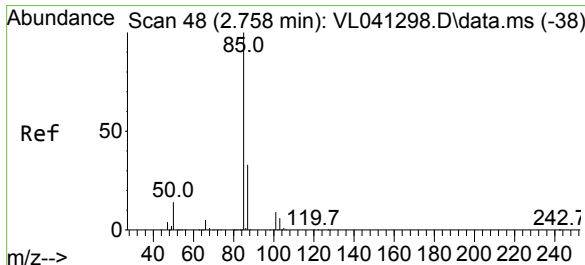
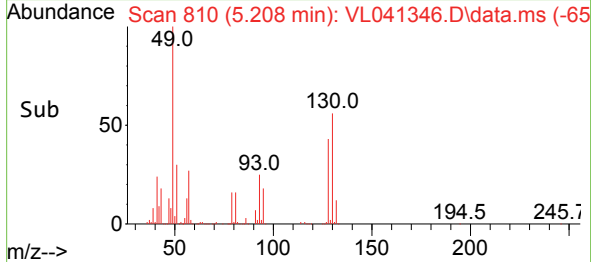
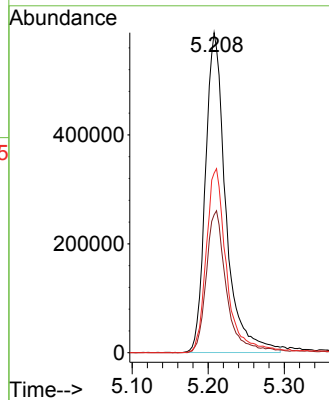
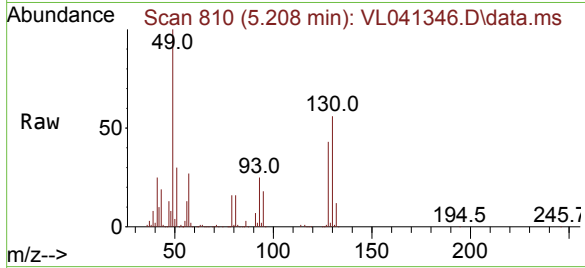




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

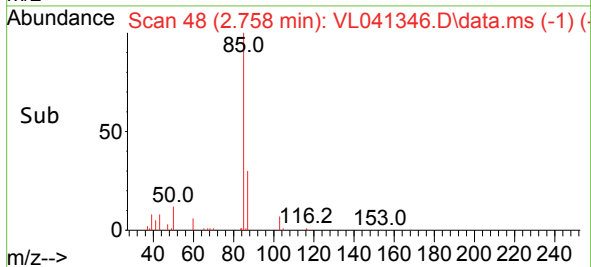
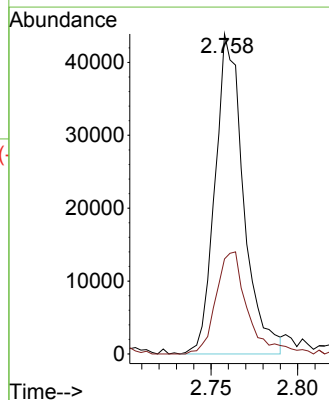
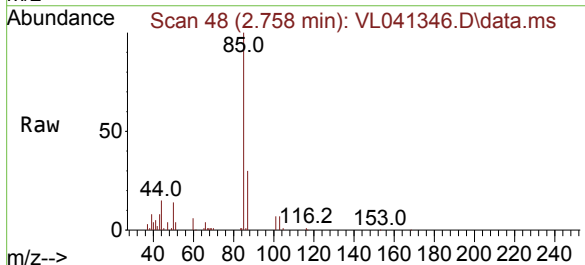
Instrument :
 MSVOA_L
 ClientSampleId :

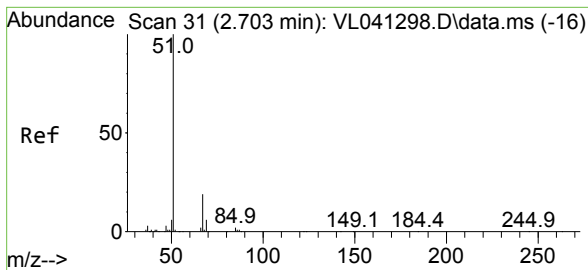
Tgt Ion: 49 Resp: 1095932
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.8 68.3
 130 59.0 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.287 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. -0.003 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

Tgt Ion: 85 Resp: 50163
 Ion Ratio Lower Upper
 85 100
 87 29.7 26.5 39.7

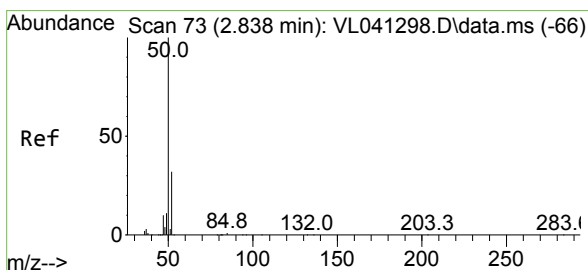
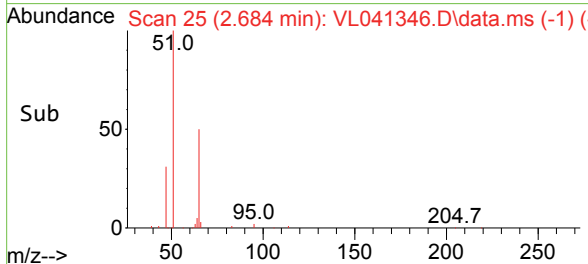
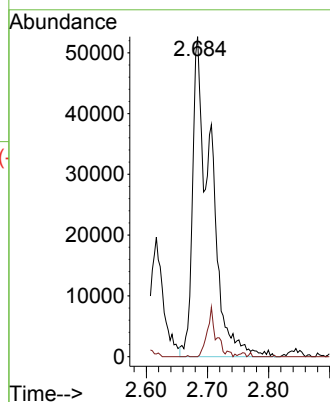
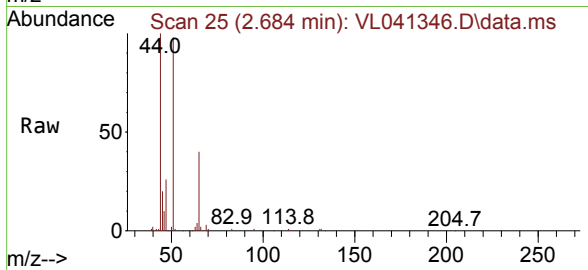




#3
Chlorodifluoromethane
Concen: 0.629 ppbv
RT: 2.684 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

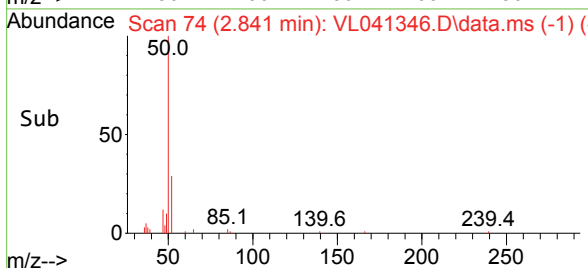
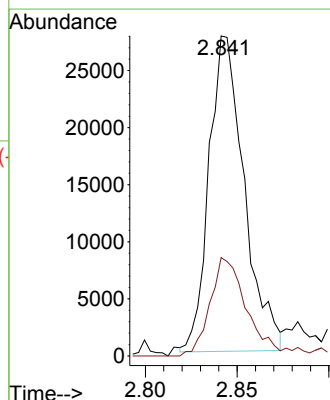
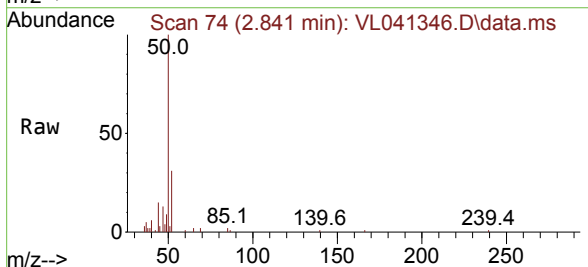
Instrument :
MSVOA_L
ClientSampleId :

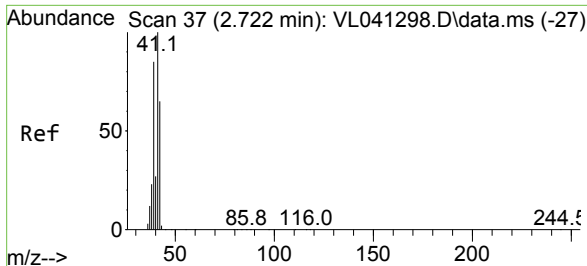
Tgt Ion: 51 Resp: 109022
Ion Ratio Lower Upper
51 100
67 7.9 14.7 22.1#



#4
Chloromethane
Concen: 0.566 ppbv
RT: 2.841 min Scan# 74
Delta R.T. -0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

Tgt Ion: 50 Resp: 36903
Ion Ratio Lower Upper
50 100
52 31.6 25.6 38.4

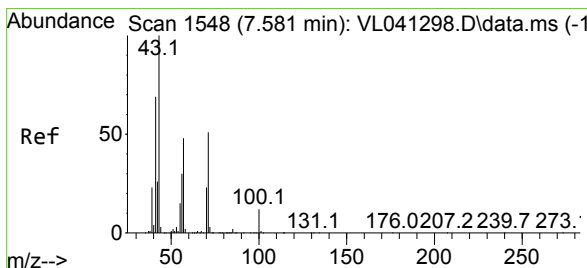
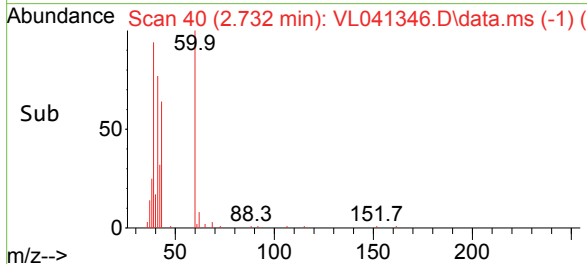
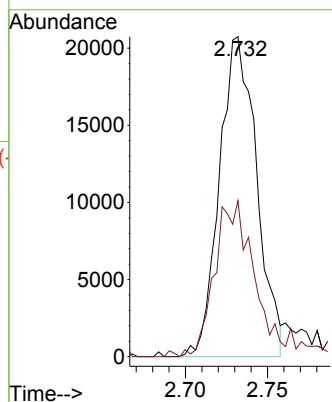
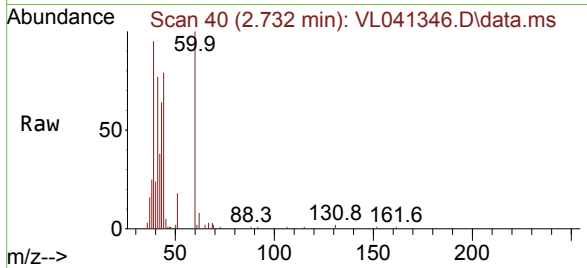




#9
Propene
Concen: 0.530 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.006 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

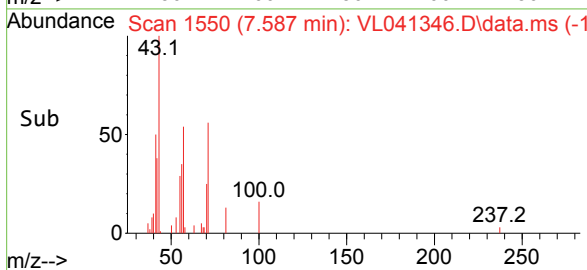
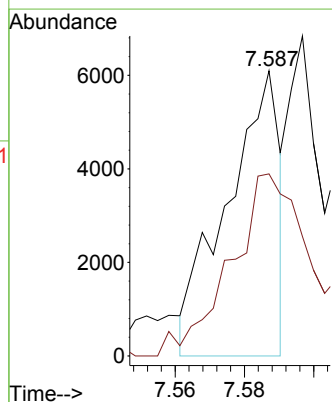
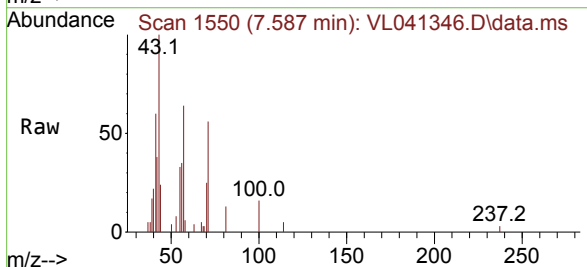
Instrument :
MSVOA_L
ClientSampleId :

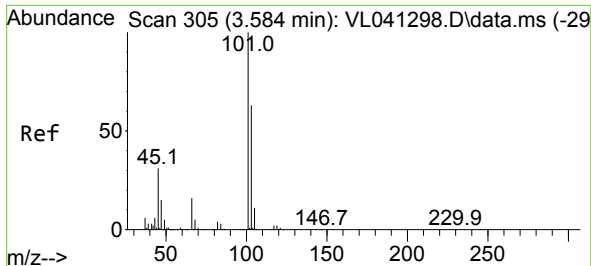
Tgt Ion: 41 Resp: 32683
Ion Ratio Lower Upper
41 100
42 55.3 55.2 82.8



#10
Heptane
Concen: 0.044 ppbv
RT: 7.587 min Scan# 1550
Delta R.T. -0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

Tgt Ion: 43 Resp: 6470
Ion Ratio Lower Upper
43 100
57 117.8 39.0 58.4

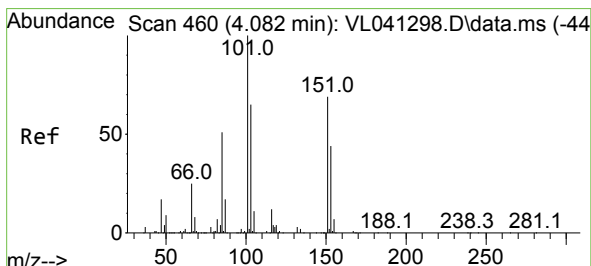
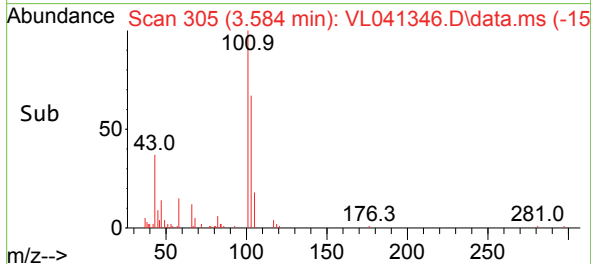
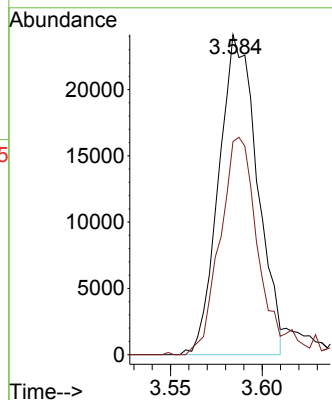
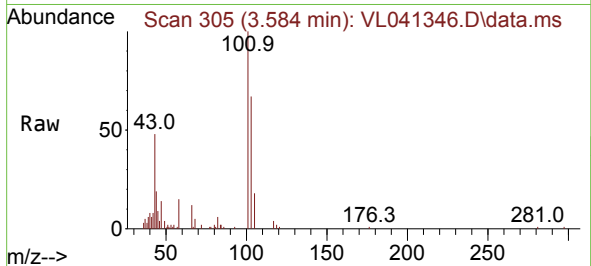




#11
 Trichlorofluoromethane
 Concen: 0.219 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. -0.003 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

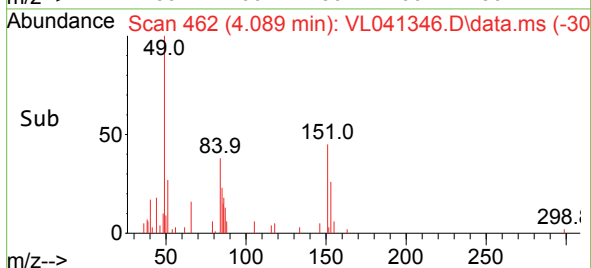
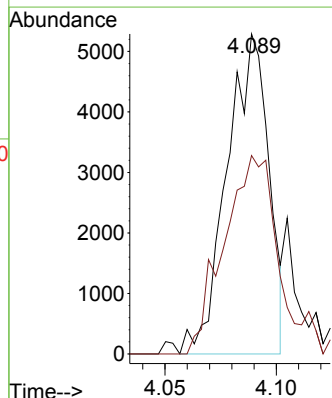
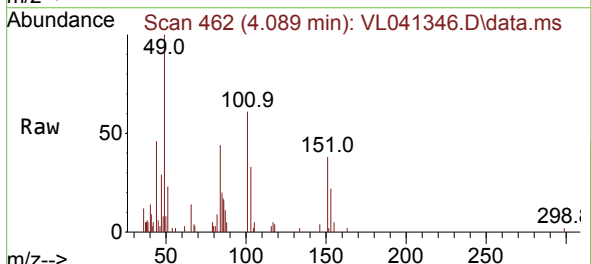
Instrument :
 MSVOA_L
 ClientSampleId :

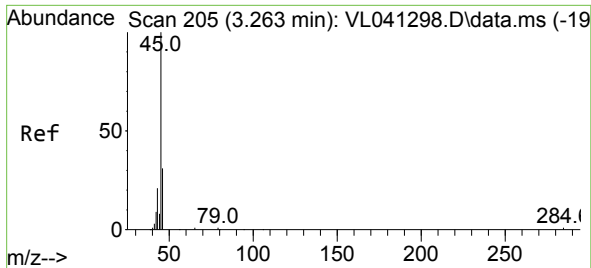
Tgt Ion:101 Resp: 35265
 Ion Ratio Lower Upper
 101 100
 103 66.6 50.6 76.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.061 ppbv
 RT: 4.089 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

Tgt Ion:101 Resp: 6919
 Ion Ratio Lower Upper
 101 100
 151 82.0 54.8 82.2

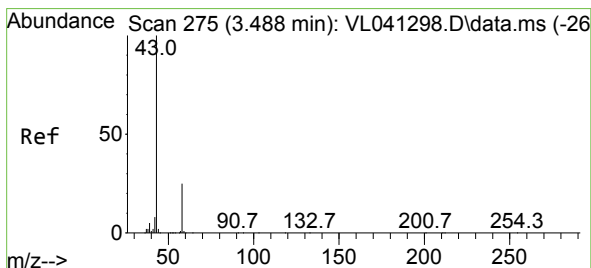
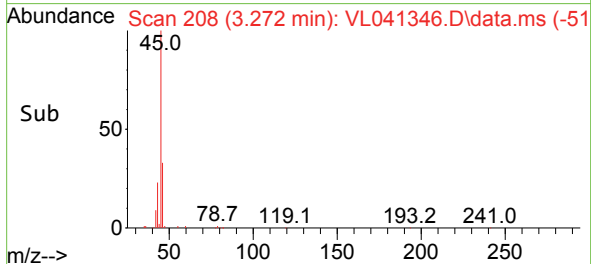
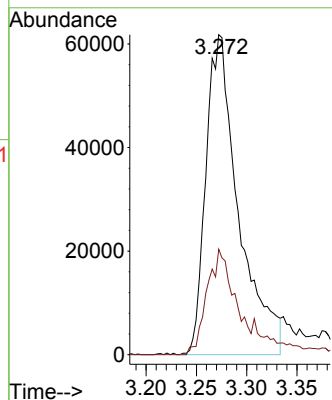
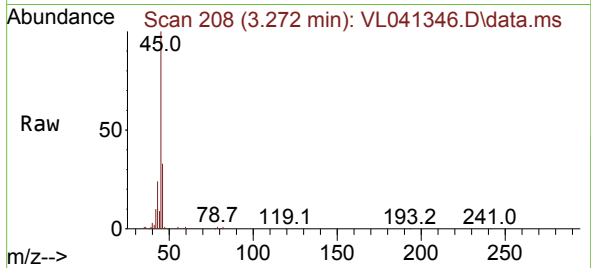




#13
Ethanol
Concen: 8.701 ppbv
RT: 3.272 min Scan# 205
Delta R.T. 0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

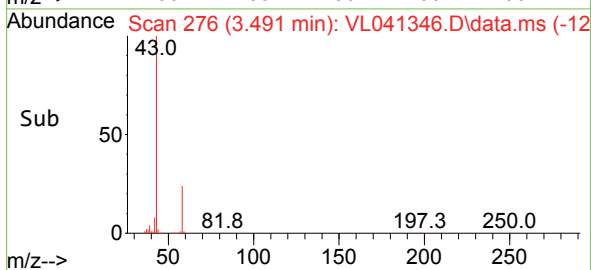
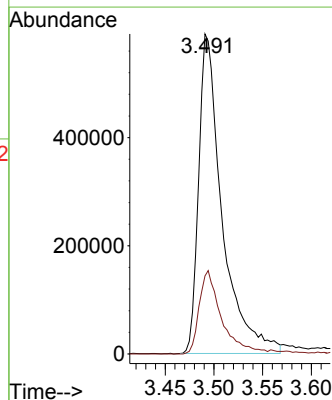
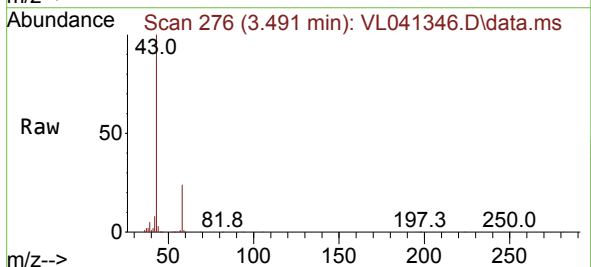
Instrument :
MSVOA_L
ClientSampleId :

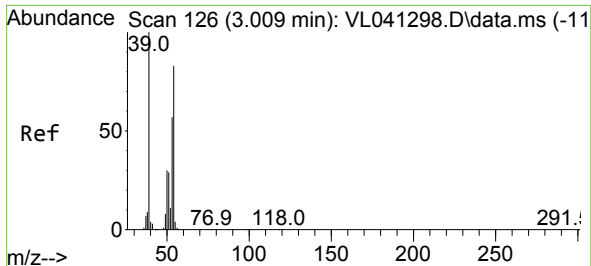
Tgt Ion: 45 Resp: 139648
Ion Ratio Lower Upper
45 100
46 34.5 14.2 56.6



#15
Acetone
Concen: 7.895 ppbv
RT: 3.491 min Scan# 276
Delta R.T. -0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

Tgt Ion: 43 Resp: 987867
Ion Ratio Lower Upper
43 100
58 26.4 20.6 31.0





#16

1,3-Butadiene

Concen: 0.082 ppbv

RT: 2.996 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

Instrument :

MSVOA_L

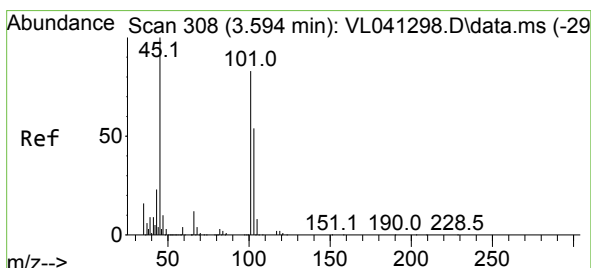
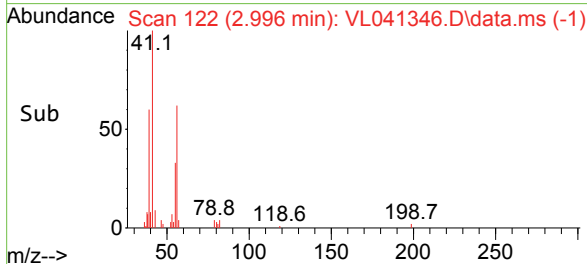
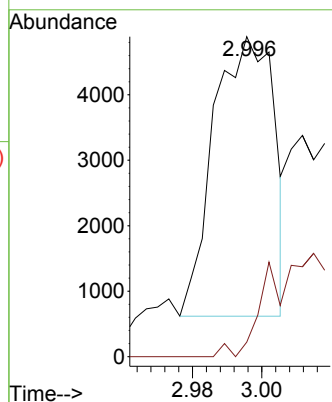
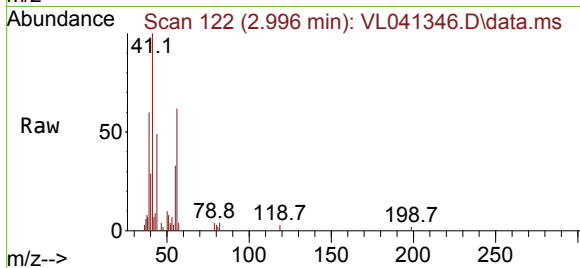
ClientSampleId :

Tgt Ion: 39 Resp: 5151

Ion Ratio Lower Upper

39 100

54 48.6 60.5 90.7#



#19

Isopropyl Alcohol

Concen: 0.450 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.013 min

Lab File: VL041346.D

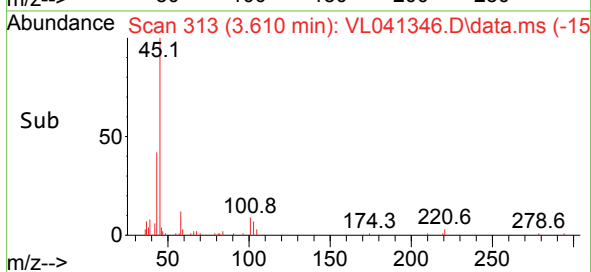
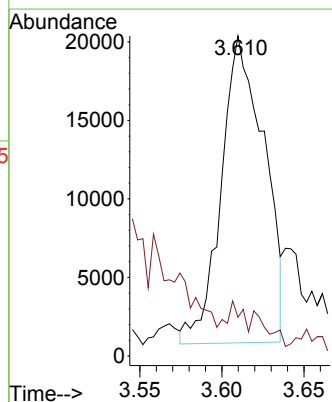
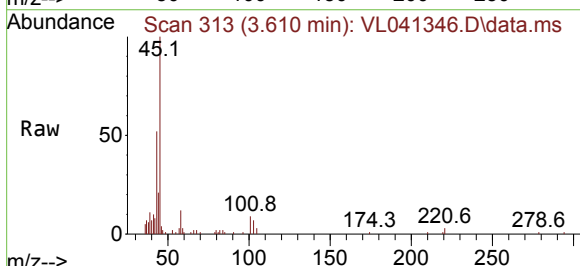
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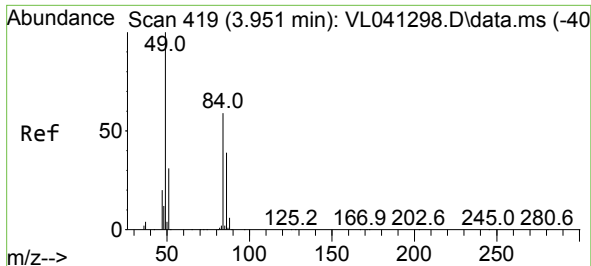
Tgt Ion: 45 Resp: 35401

Ion Ratio Lower Upper

45 100

58 722.6 1.4 2.2#





#20

Methylene Chloride

Concen: 26.513 ppbv

RT: 3.954 min Scan# 419

Delta R.T. 0.000 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 84 Resp: 1205807

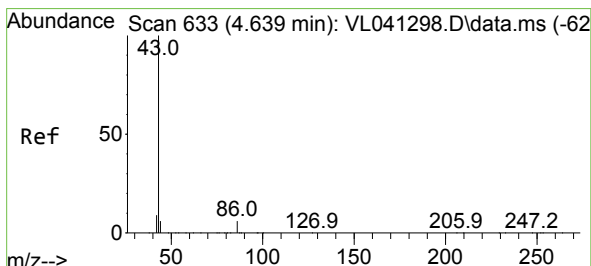
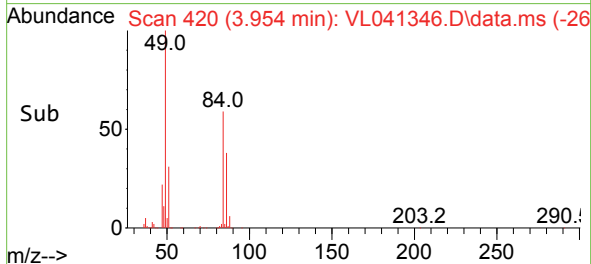
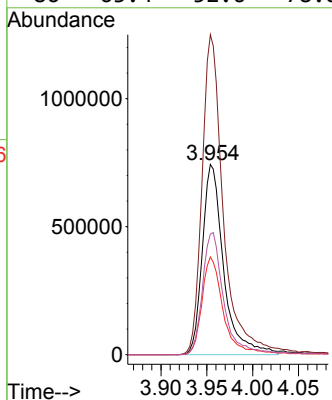
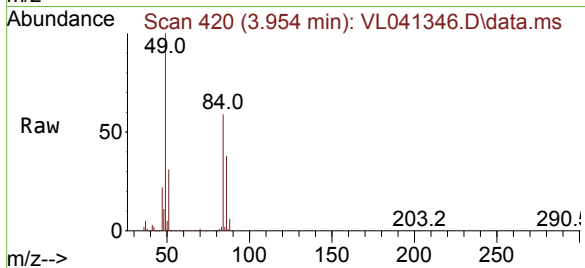
Ion	Ratio	Lower	Upper
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84	100		
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49	168.2	136.2	204.2
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51	51.4	41.9	62.9
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86	63.4	52.6	78.8
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#23

Vinyl Acetate

Concen: 0.059 ppbv

RT: 4.639 min Scan# 633

Delta R.T. -0.006 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

Tgt Ion: 43 Resp: 7596

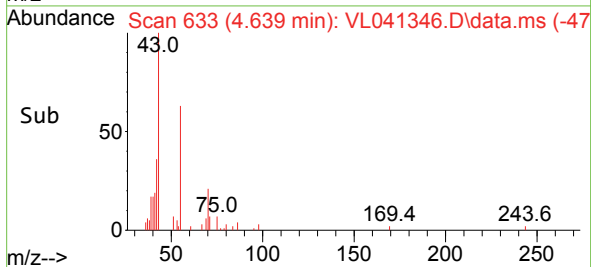
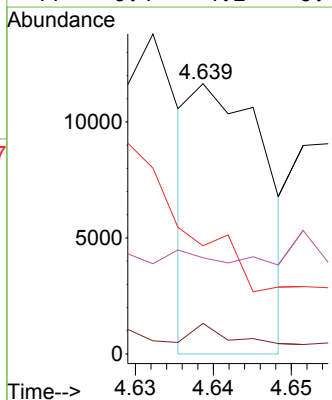
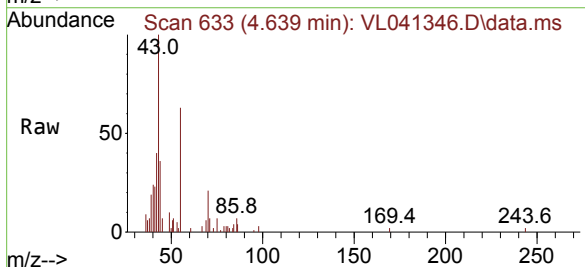
Ion	Ratio	Lower	Upper
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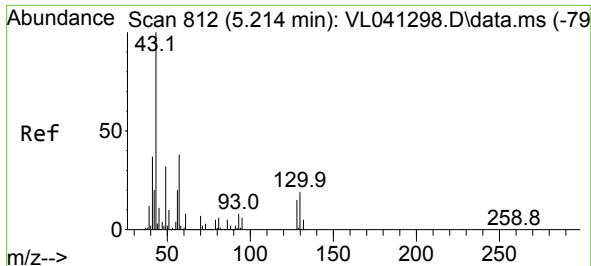
43	100		
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86	17.9	4.7	7.1#
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42	36.6	8.0	12.0#
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44	6.4	4.2	6.4#
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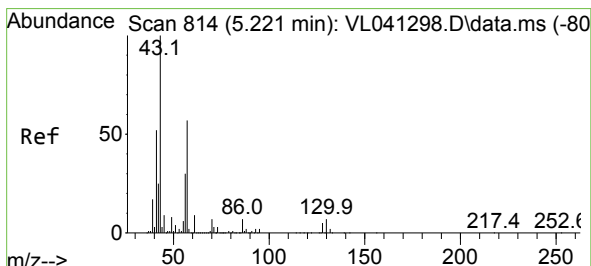
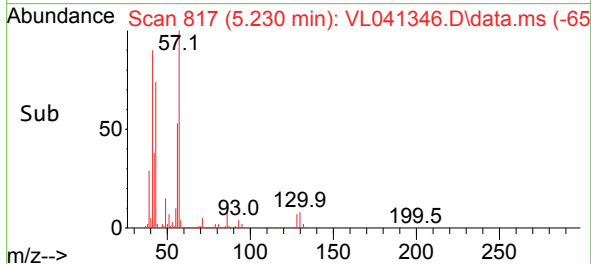
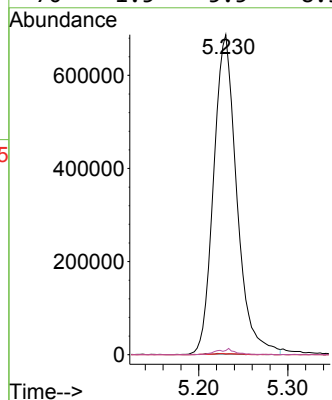
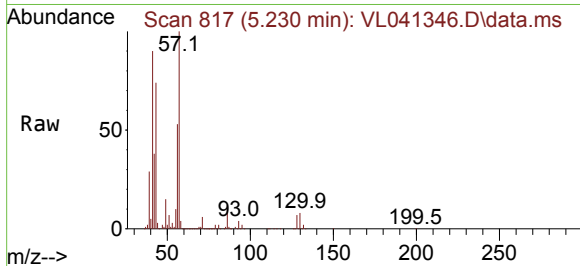




#25
Ethyl Acetate
Concen: 5.019 ppbv
RT: 5.230 min Scan# 812
Delta R.T. 0.010 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

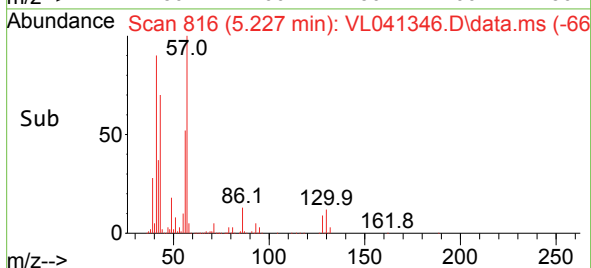
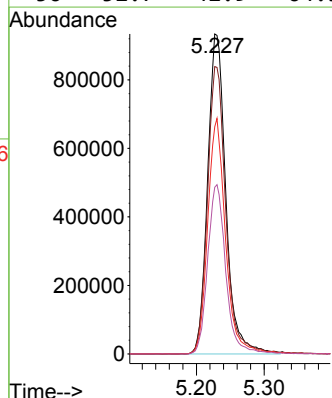
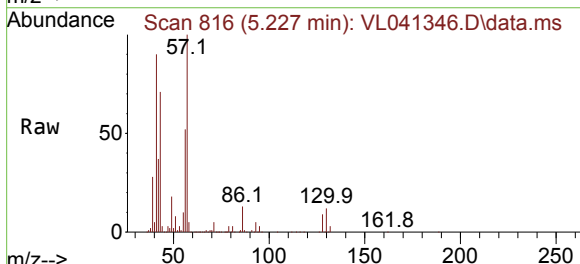
Instrument :
MSVOA_L
ClientSampleId :

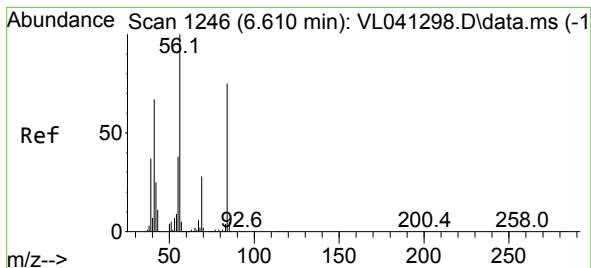
Tgt Ion: 43 Resp: 1242433
Ion Ratio Lower Upper
43 100
45 0.5 8.1 12.1#
61 0.4 7.4 11.0#
70 1.5 5.5 8.3#



#26
Hexane
Concen: 15.664 ppbv
RT: 5.227 min Scan# 816
Delta R.T. -0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

Tgt Ion: 57 Resp: 1743685
Ion Ratio Lower Upper
57 100
41 91.4 77.1 115.7
43 72.7 186.1 279.1#
56 52.7 42.9 64.3





#30

Cyclohexane

Concen: 0.039 ppbv

RT: 6.606 min Scan# 1245

Delta R.T. -0.010 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

Instrument :

MSVOA_L

ClientSampleId :

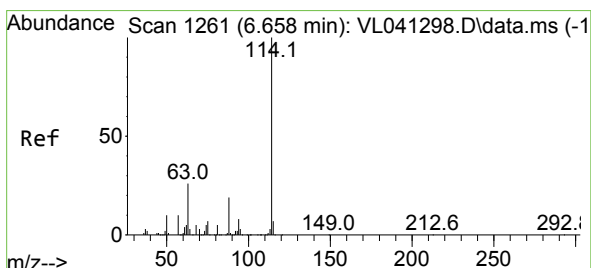
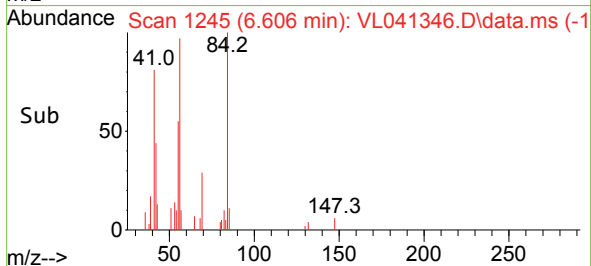
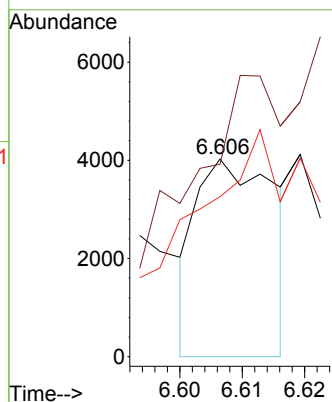
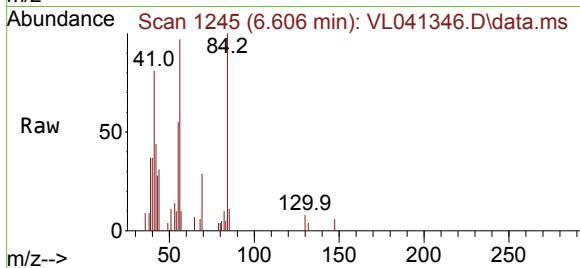
Tgt Ion: 84 Resp: 3500

Ion Ratio Lower Upper

84 100

56 0.0 114.9 172.3#

41 301.9 74.4 111.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 1263

Delta R.T. -0.003 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

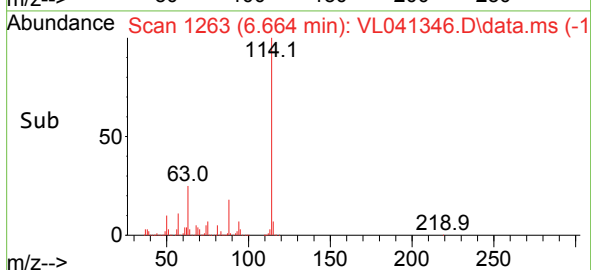
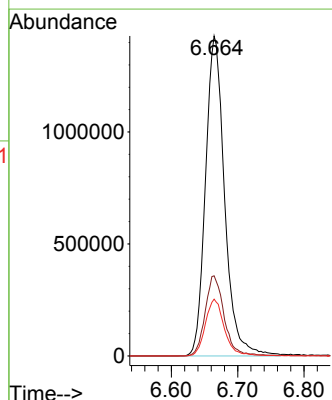
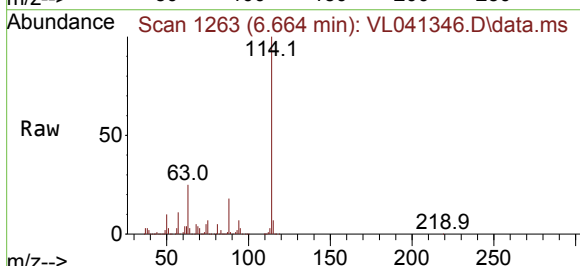
Tgt Ion: 114 Resp: 2861996

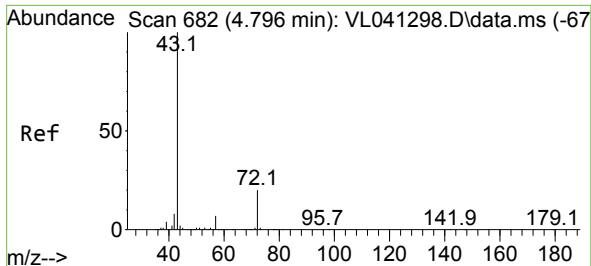
Ion Ratio Lower Upper

114 100

63 25.2 20.6 30.8

88 17.8 14.5 21.7





#34

2-Butanone

Concen: 0.242 ppbv

RT: 4.819 min Scan# 689

Delta R.T. 0.016 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

Instrument :

MSVOA_L

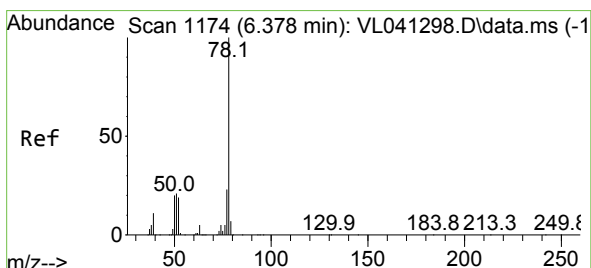
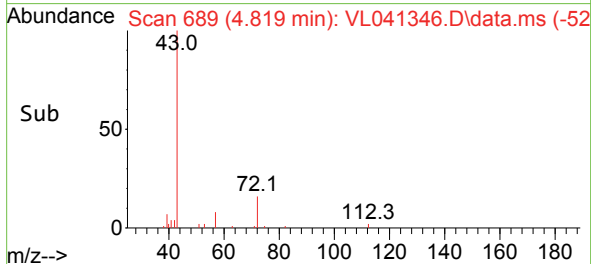
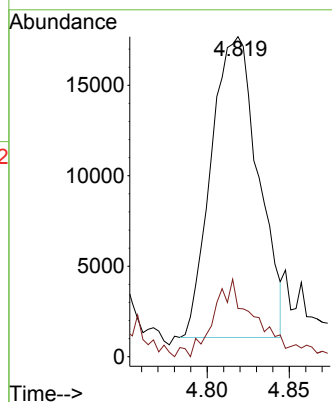
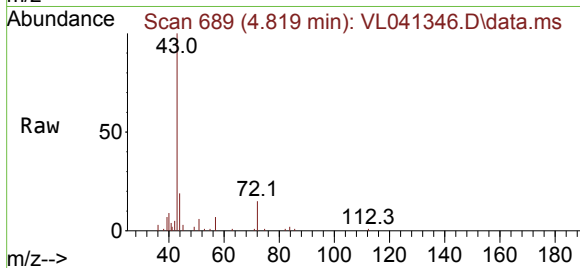
ClientSampleId :

Tgt Ion: 43 Resp: 33125

Ion Ratio Lower Upper

43 100

72 26.0 17.4 26.0



#36

Benzene

Concen: 0.170 ppbv

RT: 6.381 min Scan# 1175

Delta R.T. -0.003 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

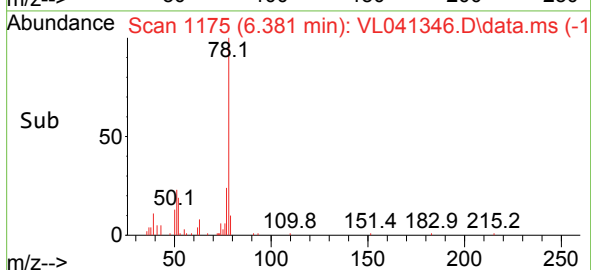
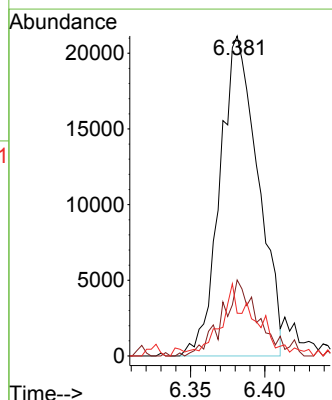
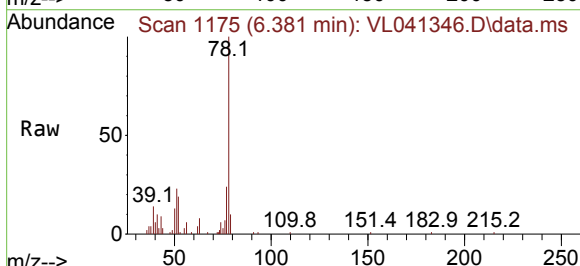
Tgt Ion: 78 Resp: 37777

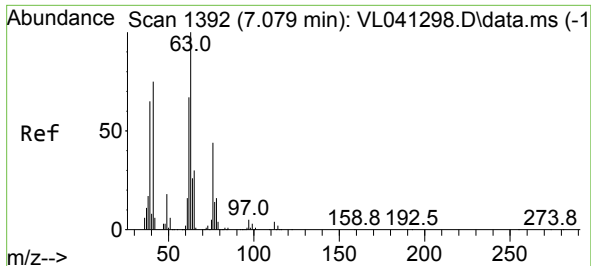
Ion Ratio Lower Upper

78 100

77 22.8 18.6 28.0

50 11.2 16.0 24.0#





#39

1,2-Dichloropropane

Concen: 7.946 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

Instrument :

MSVOA_L

ClientSampleId :

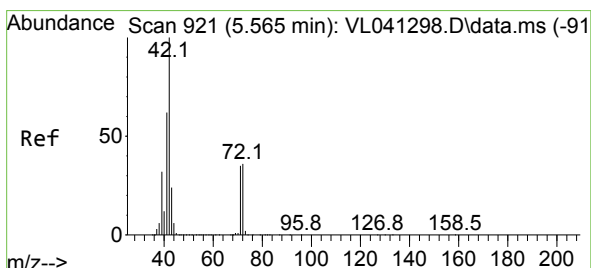
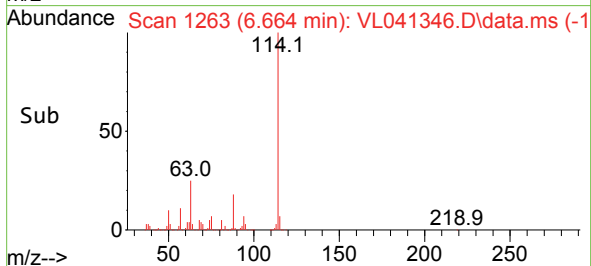
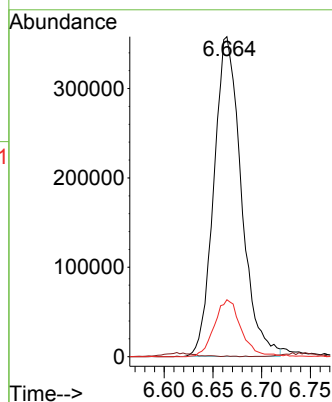
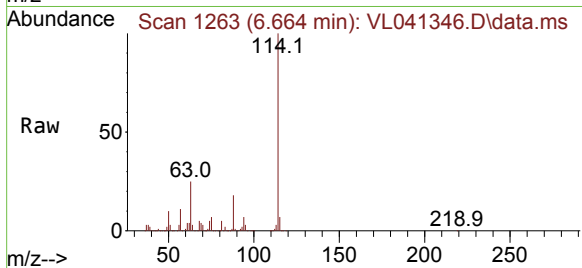
Tgt Ion: 63 Resp: 701851

Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 17.7 53.8 80.6#



#41

Tetrahydrofuran

Concen: 7.253 ppbv

RT: 5.230 min Scan# 817

Delta R.T. -0.344 min

Lab File: VL041346.D

Acq: 11 Jun 2024 14:17

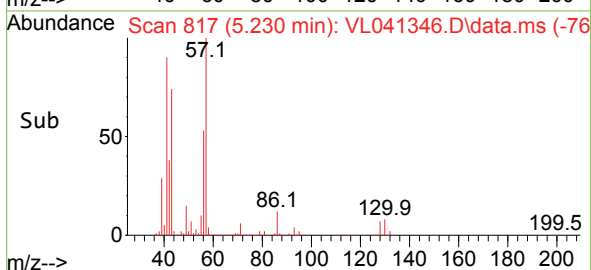
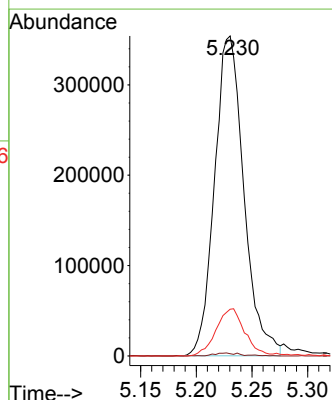
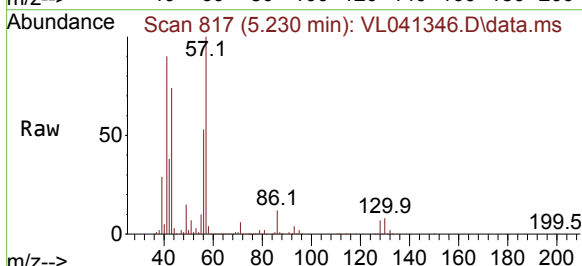
Tgt Ion: 42 Resp: 647093

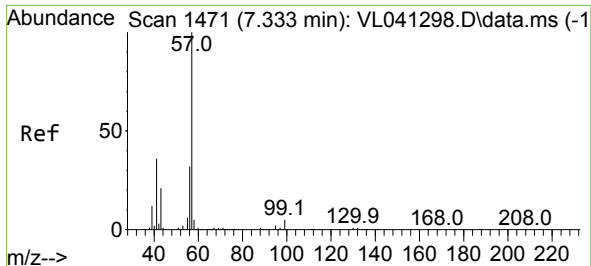
Ion Ratio Lower Upper

42 100

72 0.9 30.2 45.4#

71 15.0 30.3 45.5#

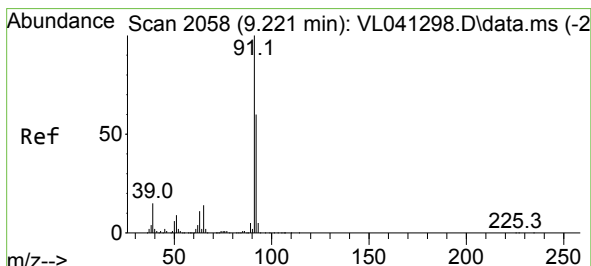
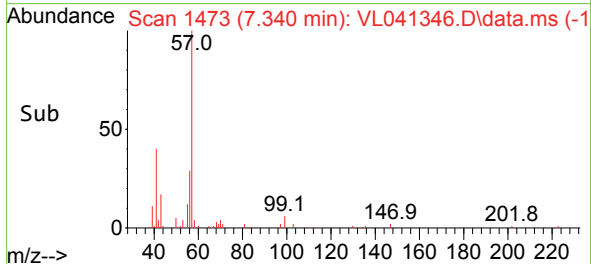
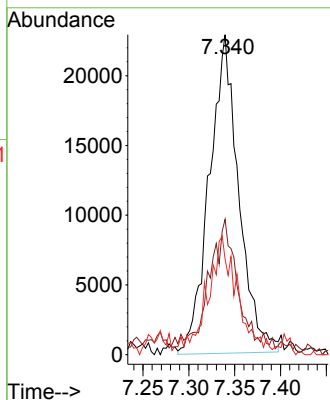
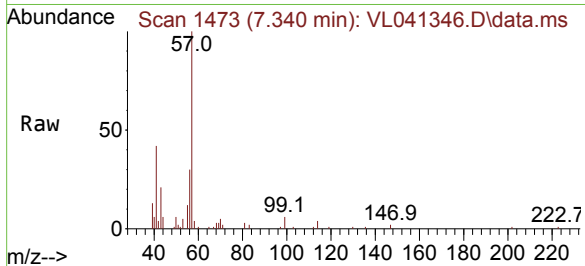




#44
 2,2,4-Trimethylpentane
 Concen: 0.134 ppbv
 RT: 7.340 min Scan# 1471
 Delta R.T. 0.000 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

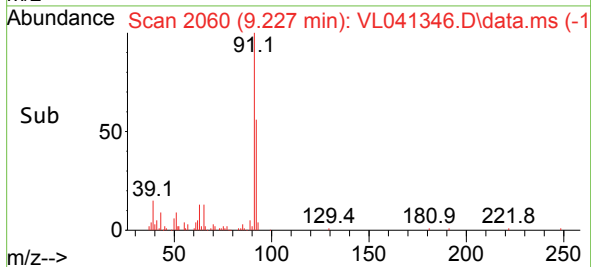
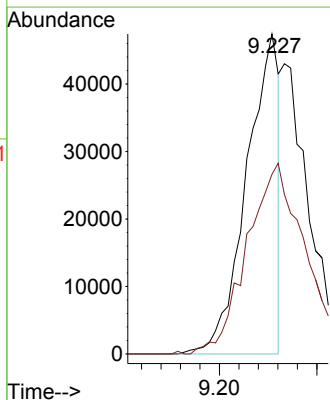
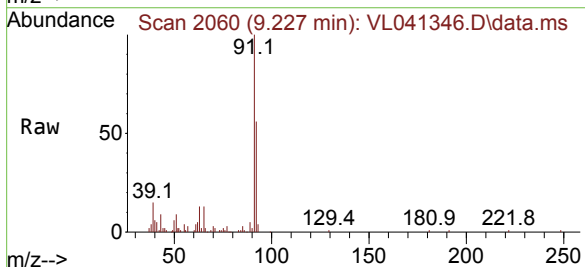
Instrument :
 MSVOA_L
 ClientSampleId :

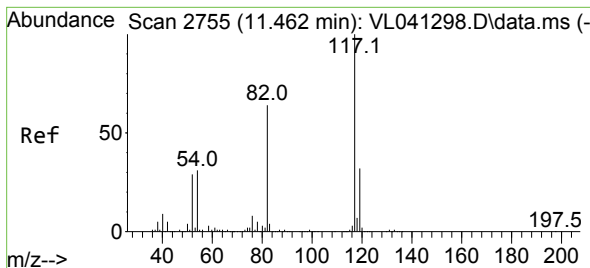
Tgt Ion: 57 Resp: 51042
 Ion Ratio Lower Upper
 57 100
 41 47.3 29.4 44.2#
 56 40.4 25.0 37.4#



#53
 Toluene
 Concen: 0.214 ppbv
 RT: 9.227 min Scan# 2060
 Delta R.T. -0.003 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

Tgt Ion: 91 Resp: 54548
 Ion Ratio Lower Upper
 91 100
 92 0.0 49.2 73.8#

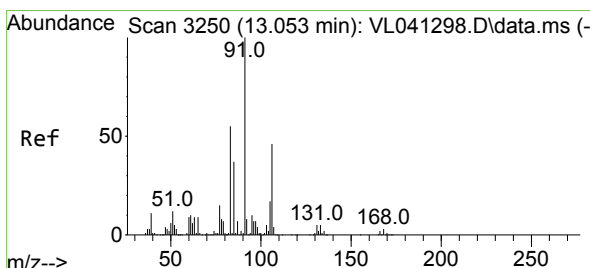
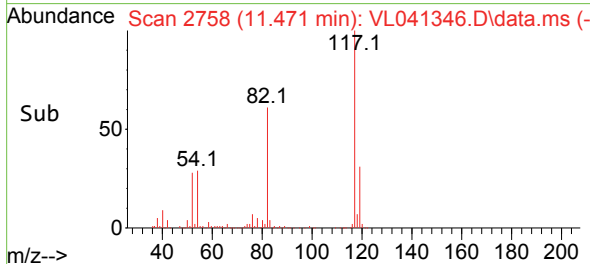
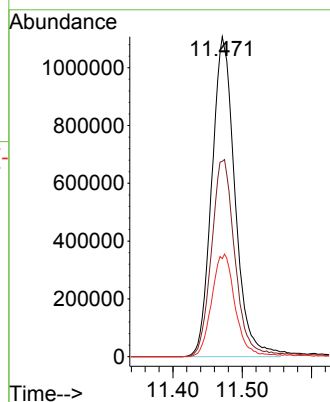
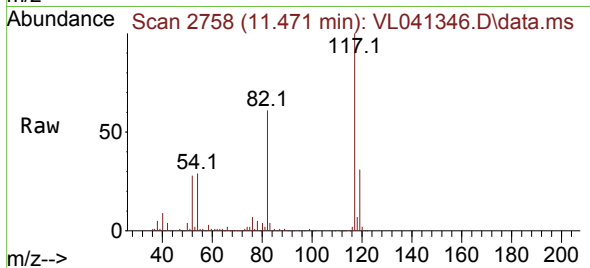




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

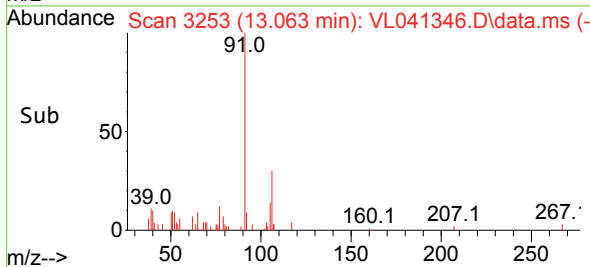
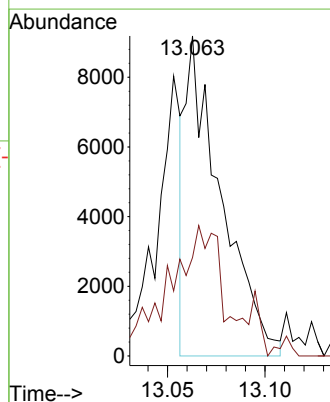
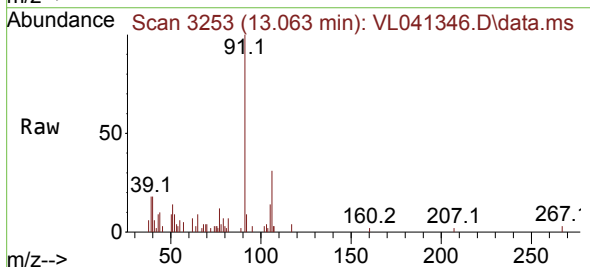
Instrument :
MSVOA_L
ClientSampleId :

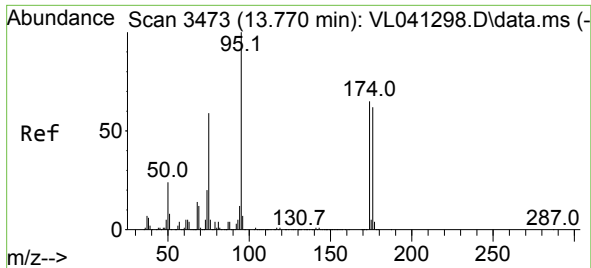
Tgt Ion:117 Resp: 2573608
Ion Ratio Lower Upper
117 100
82 63.8 52.3 78.5
119 32.9 26.2 39.2



#60
o-Xylene
Concen: 0.043 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. -0.003 min
Lab File: VL041346.D
Acq: 11 Jun 2024 14:17

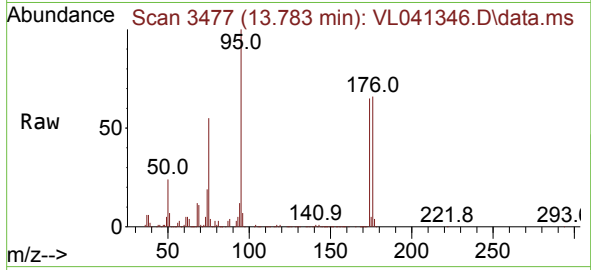
Tgt Ion: 91 Resp: 11601
Ion Ratio Lower Upper
91 100
106 71.1 22.8 68.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.611 ppbv
 RT: 13.783 min Scan# 3477
 Delta R.T. 0.003 min
 Lab File: VL041346.D
 Acq: 11 Jun 2024 14:17

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 1909697

Ion	Ratio	Lower	Upper
95	100		
174	71.9	52.2	78.2
175	5.4	4.1	6.1

