

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040717.D
 Acq On : 19 Sep 2023 3:06
 Operator : SY/MD
 Sample : 04495-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 19 05:26:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

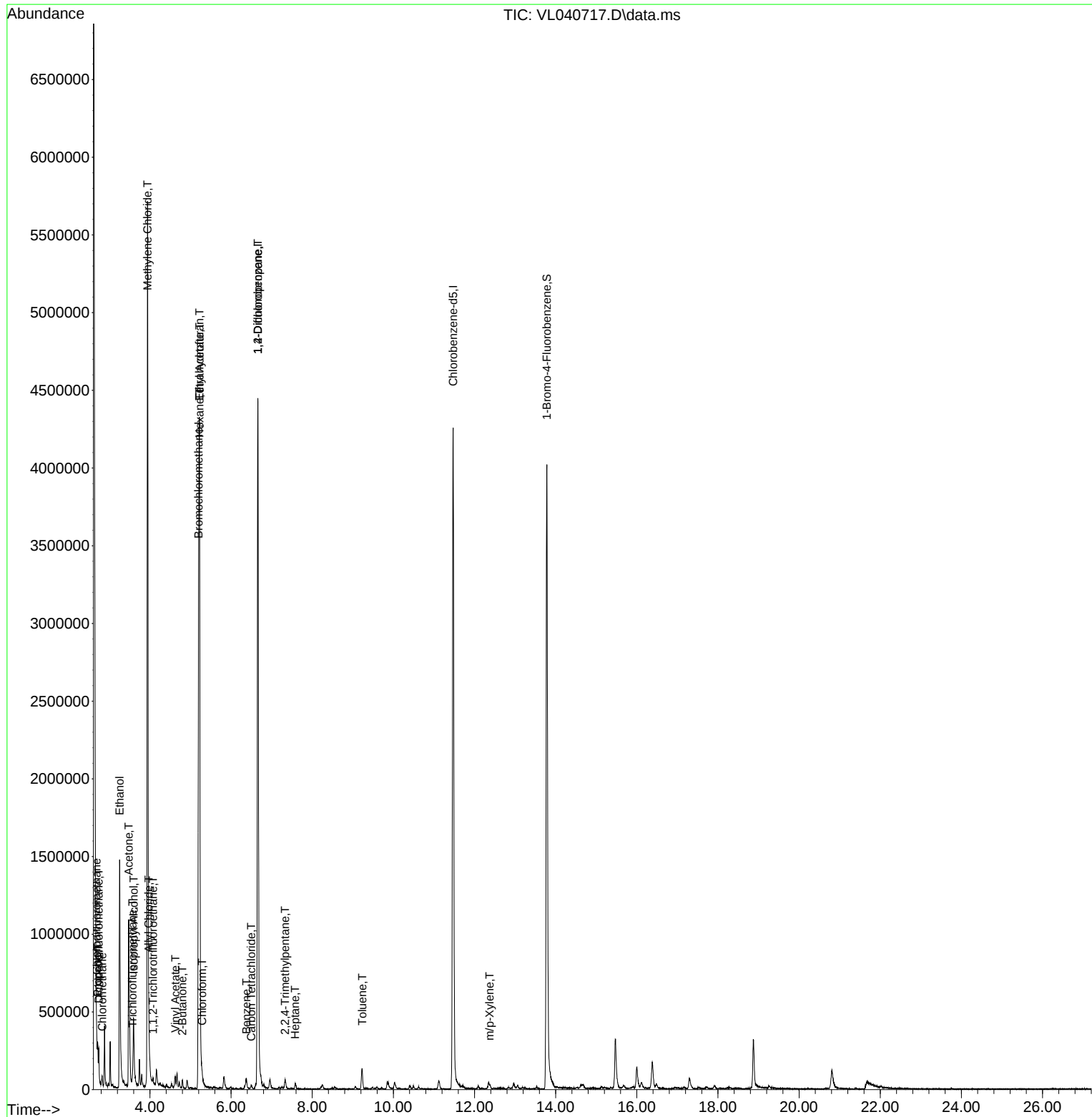
Internal Standards						
1) Bromochloromethane	5.198	49	1299598	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3548516	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2962590	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2136468	9.334	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.738	85	122864	0.429	ppbv	99
3) Chlorodifluoromethane	2.684	51	79961	0.378	ppbv #	81
4) Chloromethane	2.822	50	42093	0.519	ppbv	91
9) Propene	2.713	41	37609	0.617	ppbv #	76
10) Heptane	7.581	43	13414	0.098	ppbv	87
11) Trichlorofluoromethane	3.571	101	43172	0.172	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.079	101	11332	0.063	ppbv	93
13) Ethanol	3.253	45	1465981	81.204	ppbv	97
15) Acetone	3.475	43	1078275	6.290	ppbv	97
19) Isopropyl Alcohol	3.597	45	482100	4.667	ppbv #	97
20) Methylene Chloride	3.941	84	1962856	21.274	ppbv	93
21) Allyl Chloride	3.970	41	4507	0.043	ppbv #	20
23) Vinyl Acetate	4.626	43	46176	0.260	ppbv #	72
25) Ethyl Acetate	5.221	43	1028876	3.721	ppbv #	77
26) Hexane	5.224	57	1551270	11.866	ppbv #	36
29) Chloroform	5.285	83	10027	0.044	ppbv #	55
34) 2-Butanone	4.799	43	57508	0.322	ppbv #	88
35) Carbon Tetrachloride	6.497	117	13344	0.055	ppbv #	73
36) Benzene	6.381	78	31750	0.121	ppbv #	88
39) 1,2-Dichloropropane	6.658	63	852054	8.424	ppbv #	22
41) Tetrahydrofuran	5.221	42	521724	5.701	ppbv #	47
44) 2,2,4-Trimethylpentane	7.333	57	26596	0.064	ppbv #	34
53) Toluene	9.233	91	98675	0.356	ppbv	98
59) m/p-Xylene	12.375	91	9584	0.030	ppbv #	32

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

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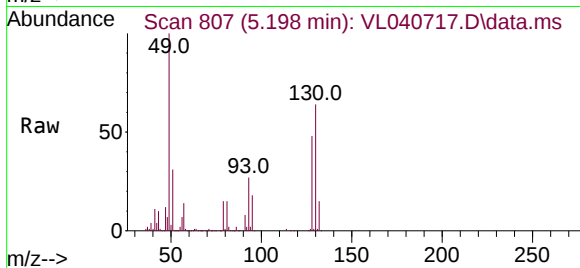
Quant Time: Sep 19 05:26:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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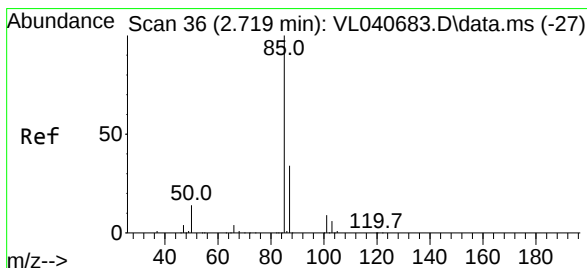
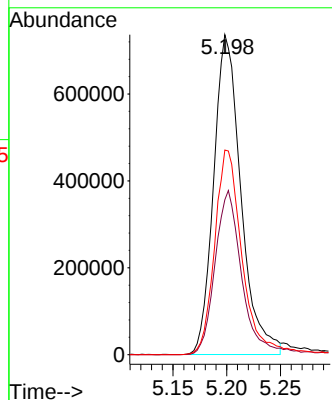
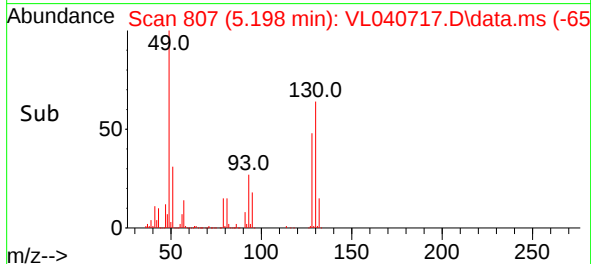


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Instrument :
MSVOA_L
ClientSampleId :

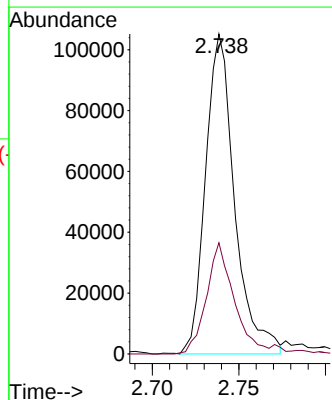
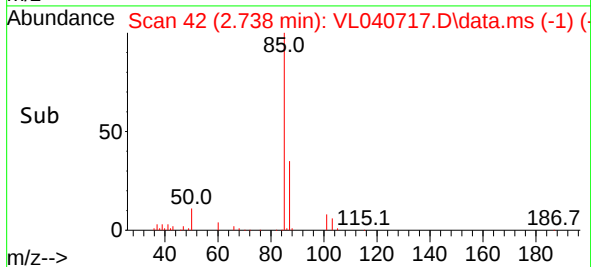
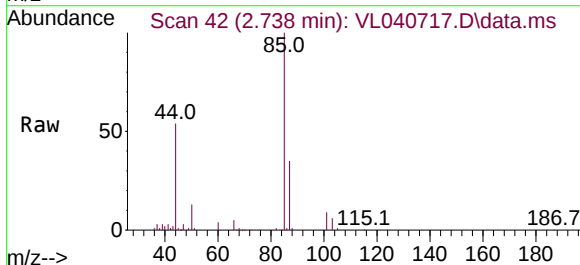


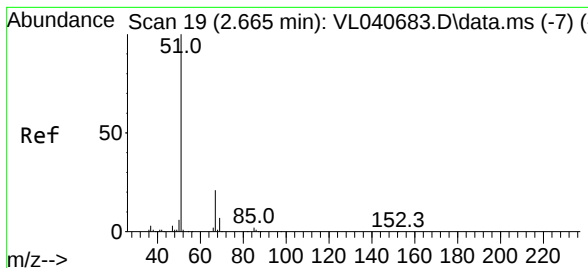
Tgt Ion: 49 Resp: 1299598
Ion Ratio Lower Upper
49 100
128 51.4 25.4 76.0
130 65.9 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.006 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Tgt Ion: 85 Resp: 122864
Ion Ratio Lower Upper
85 100
87 34.4 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.378 ppbv

RT: 2.684 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

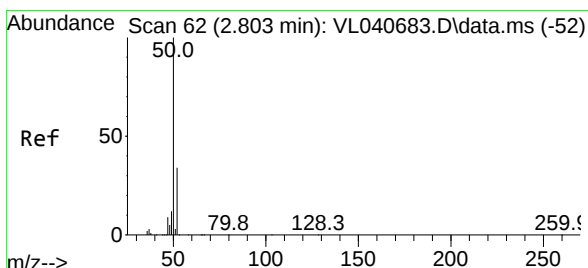
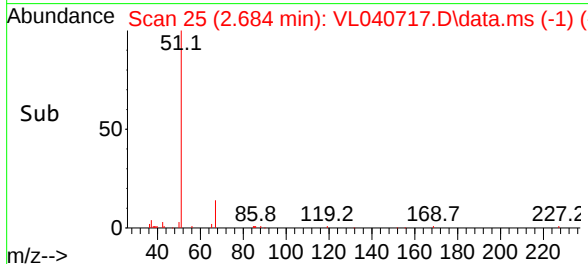
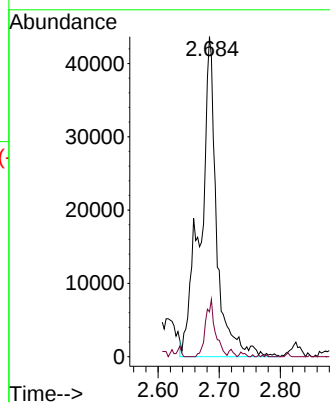
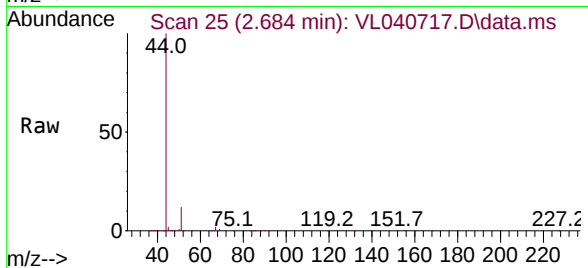
ClientSampleId :

Tgt Ion: 51 Resp: 79961

Ion Ratio Lower Upper

51 100

67 11.9 16.7 25.1#



#4

Chloromethane

Concen: 0.519 ppbv

RT: 2.822 min Scan# 68

Delta R.T. 0.006 min

Lab File: VL040717.D

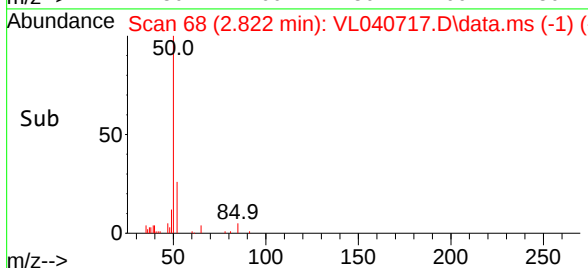
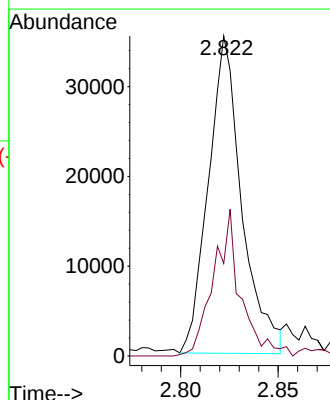
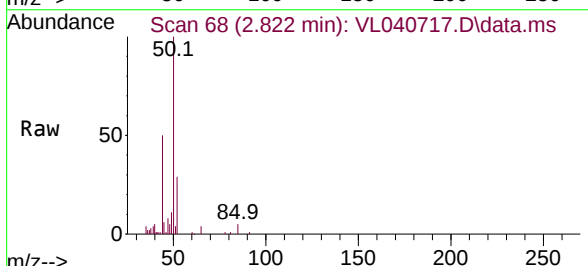
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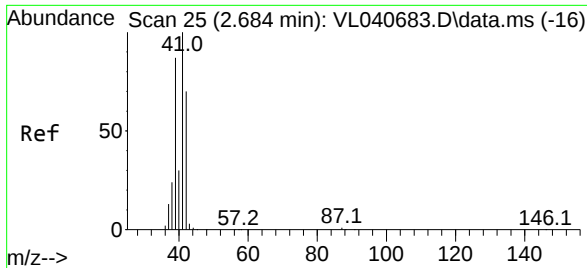
Tgt Ion: 50 Resp: 42093

Ion Ratio Lower Upper

50 100

52 28.8 27.1 40.7





#9

Propene

Concen: 0.617 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.016 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

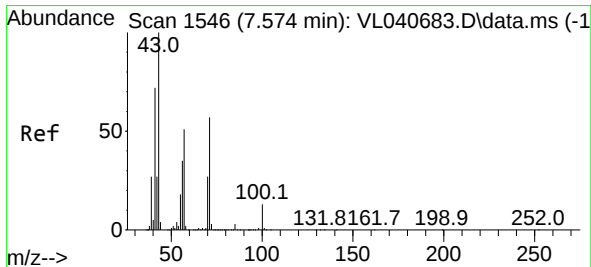
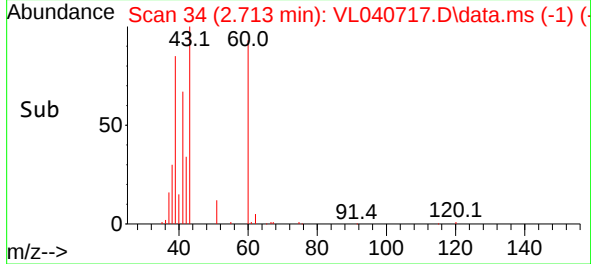
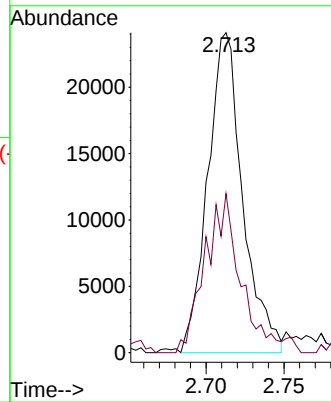
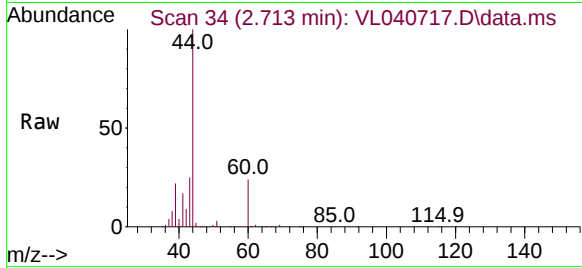
ClientSampleId :

Tgt Ion: 41 Resp: 37609

Ion Ratio Lower Upper

41 100

42 51.4 56.7 85.1#



#10

Heptane

Concen: 0.098 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.006 min

Lab File: VL040717.D

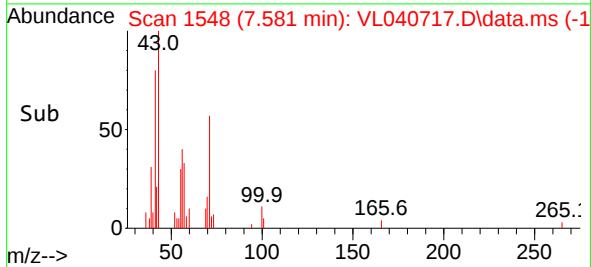
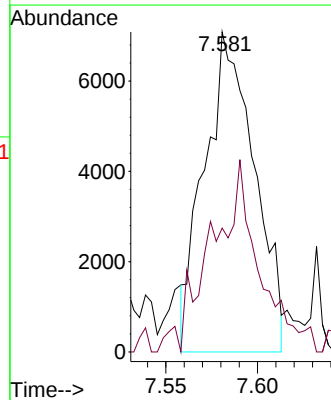
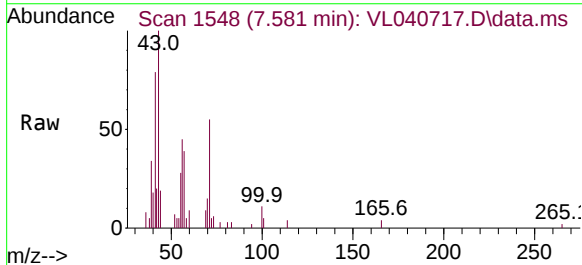
Acq: 19 Sep 2023 3:06

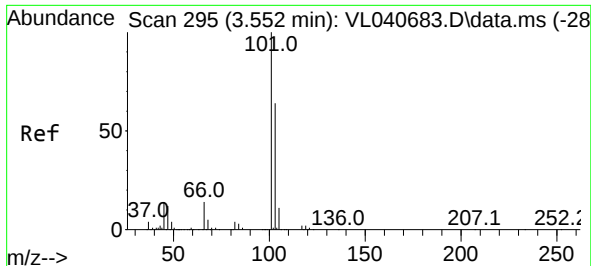
Tgt Ion: 43 Resp: 13414

Ion Ratio Lower Upper

43 100

57 61.5 41.8 62.6

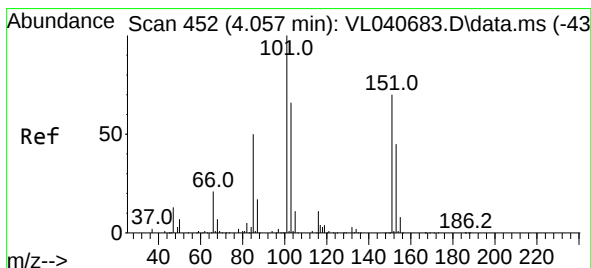
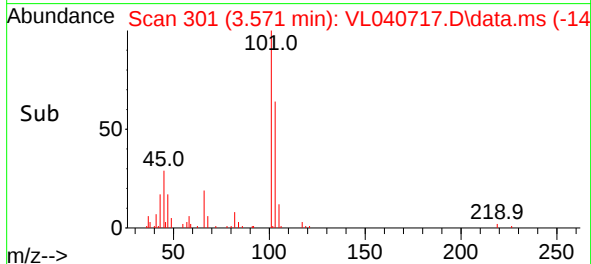
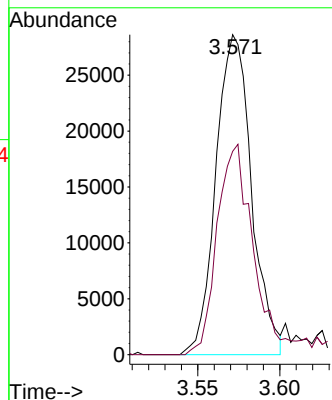
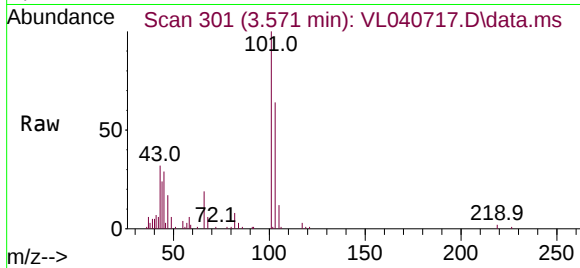




#11
 Trichlorofluoromethane
 Concen: 0.172 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.003 min
 Lab File: VL040717.D
 Acq: 19 Sep 2023 3:06

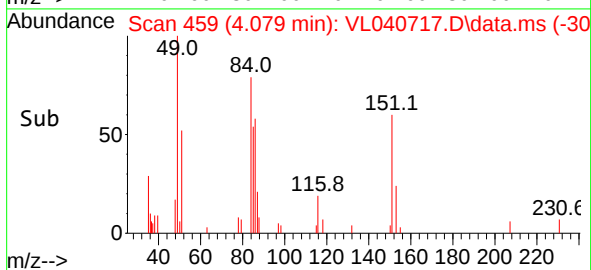
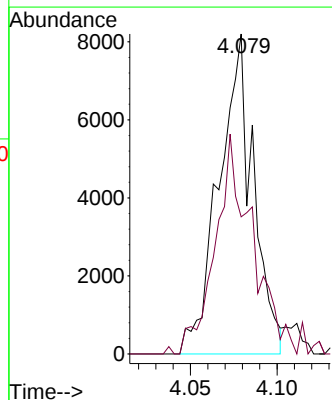
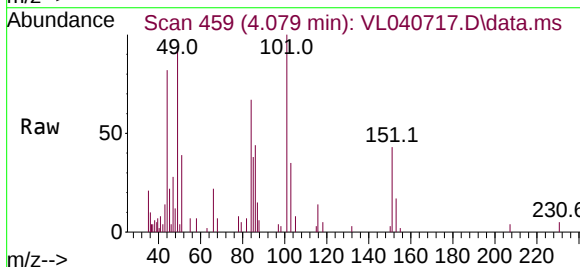
Instrument :
 MSVOA_L
 ClientSampleId :

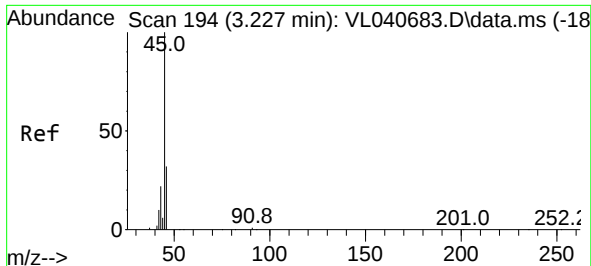
Tgt Ion:101 Resp: 43172
 Ion Ratio Lower Upper
 101 100
 103 63.5 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.063 ppbv
 RT: 4.079 min Scan# 459
 Delta R.T. 0.006 min
 Lab File: VL040717.D
 Acq: 19 Sep 2023 3:06

Tgt Ion:101 Resp: 11332
 Ion Ratio Lower Upper
 101 100
 151 76.9 56.8 85.2

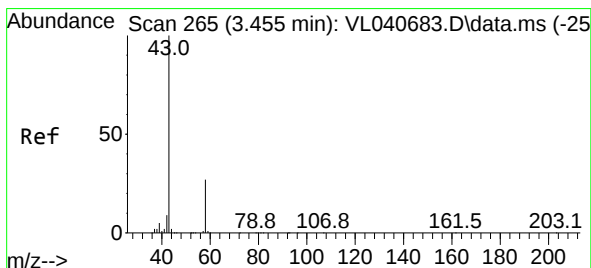
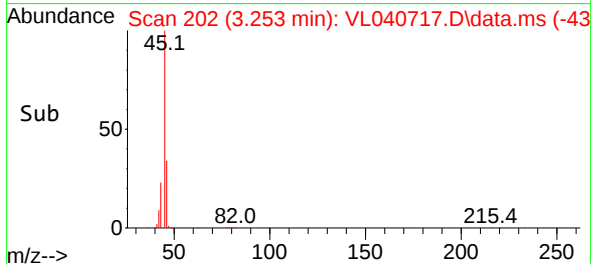
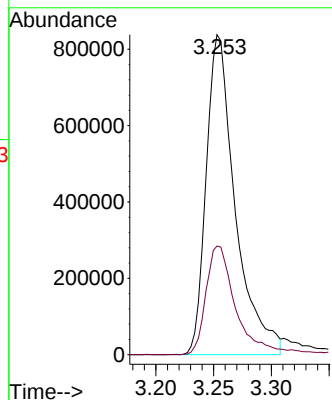
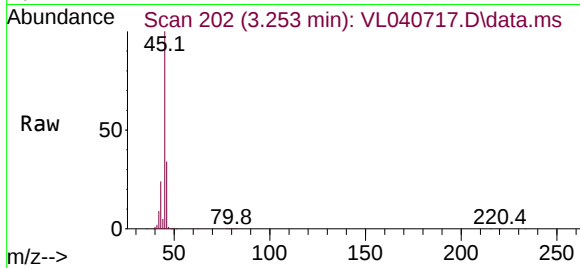




#13
Ethanol
Concen: 81.204 ppbv
RT: 3.253 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

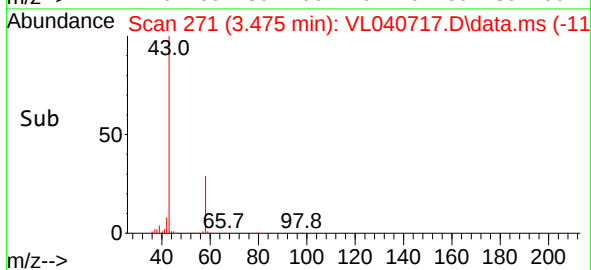
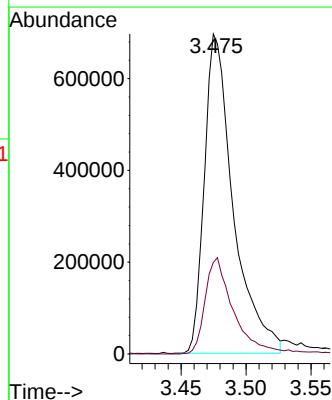
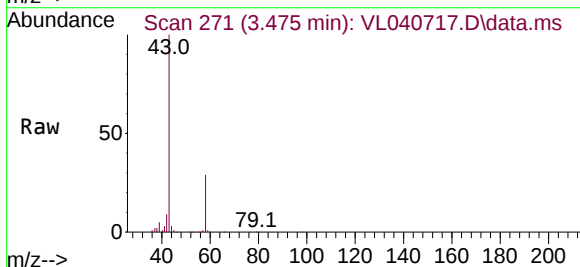
Instrument :
MSVOA_L
ClientSampleId :

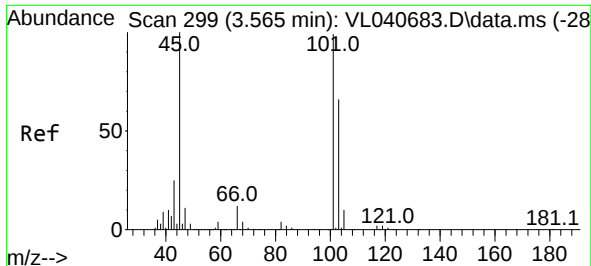
Tgt Ion: 45 Resp: 1465981
Ion Ratio Lower Upper
45 100
46 36.6 15.2 61.0



#15
Acetone
Concen: 6.290 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.003 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

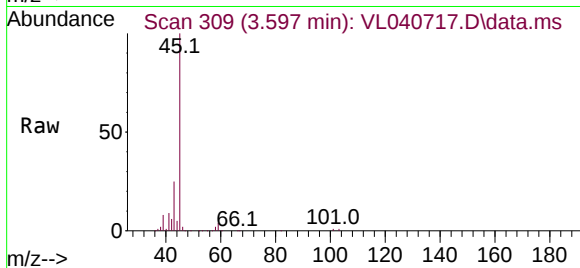
Tgt Ion: 43 Resp: 1078275
Ion Ratio Lower Upper
43 100
58 30.1 22.6 34.0



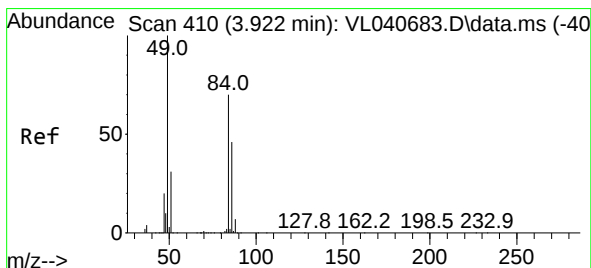
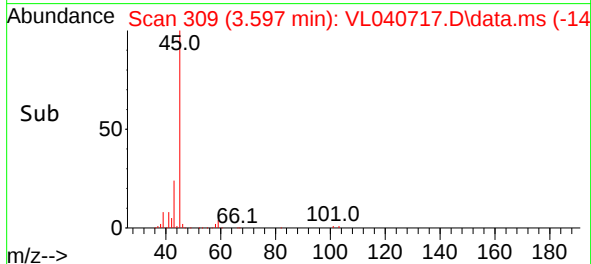
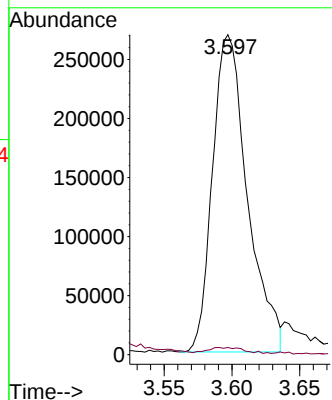


#19
Isopropyl Alcohol
Concen: 4.667 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.019 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Instrument :
MSVOA_L
ClientSampleId :

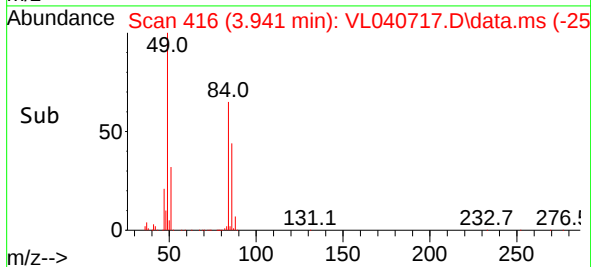
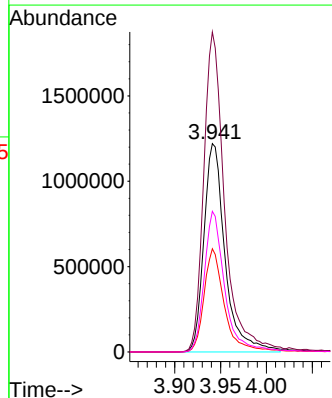
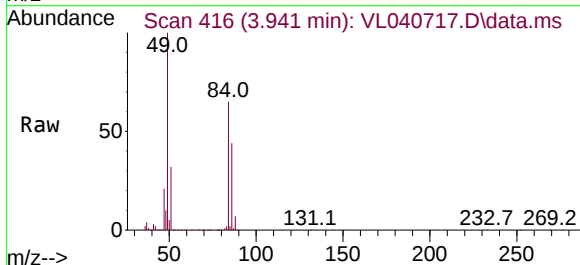


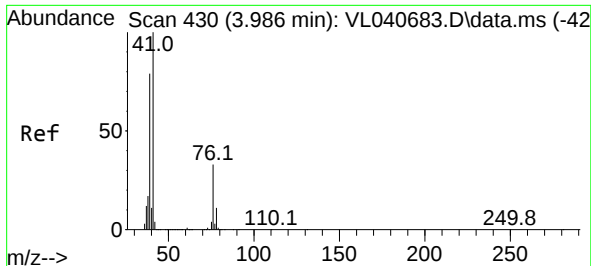
Tgt Ion: 45 Resp: 482100
Ion Ratio Lower Upper
45 100
58 3.3 1.9 2.9#



#20
Methylene Chloride
Concen: 21.274 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.003 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Tgt Ion: 84 Resp: 1962856
Ion Ratio Lower Upper
84 100
49 153.6 114.4 171.6
51 49.5 35.5 53.3
86 67.5 53.2 79.8





#21

Allyl Chloride

Concen: 0.043 ppbv

RT: 3.970 min Scan# 41

Delta R.T. -0.032 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

ClientSampleId :

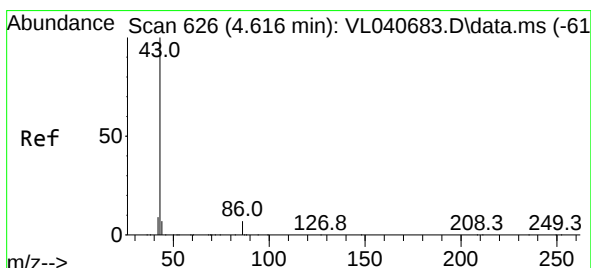
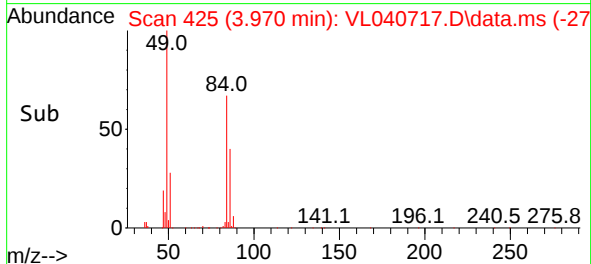
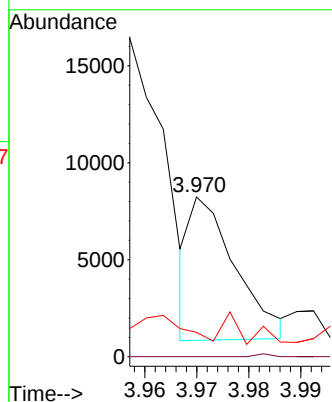
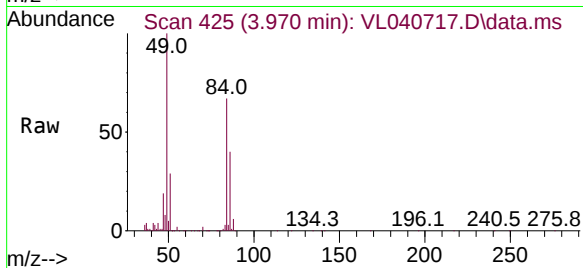
Tgt Ion: 41 Resp: 4507

Ion Ratio Lower Upper

41 100

76 0.0 26.6 40.0#

39 160.6 65.0 97.4#



#23

Vinyl Acetate

Concen: 0.260 ppbv

RT: 4.626 min Scan# 629

Delta R.T. -0.006 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Tgt Ion: 43 Resp: 46176

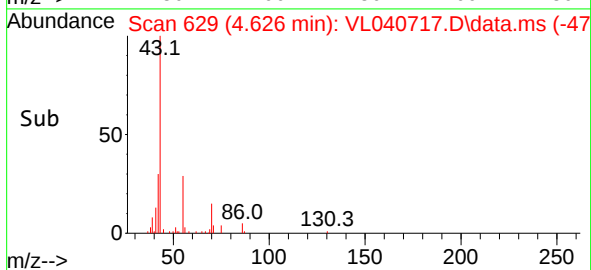
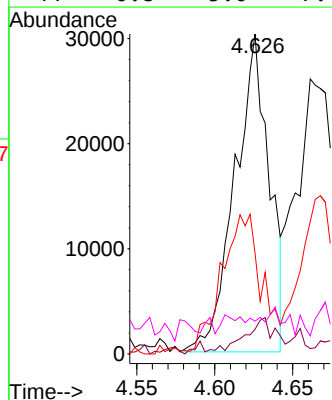
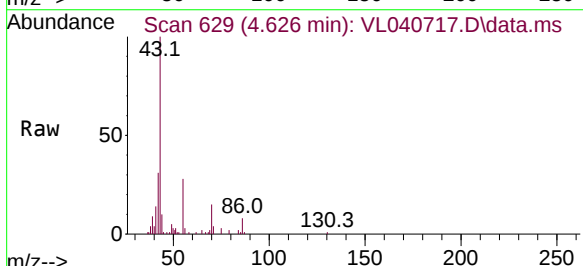
Ion Ratio Lower Upper

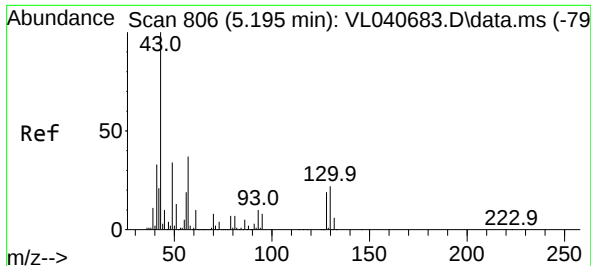
43 100

86 7.0 5.6 8.4

42 30.5 7.6 11.4#

44 0.8 5.0 7.4#

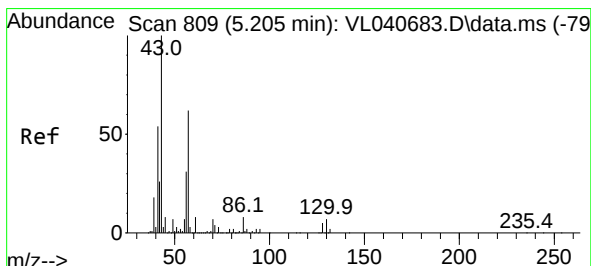
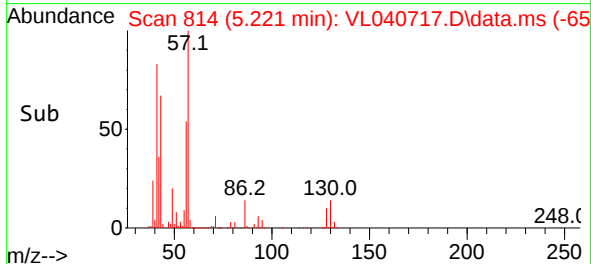
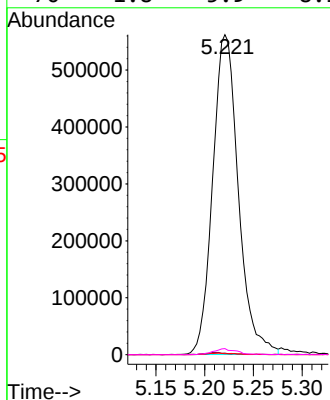
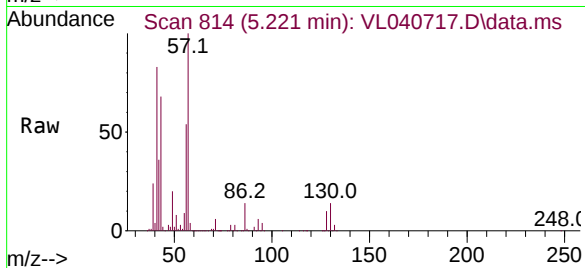




#25
Ethyl Acetate
Concen: 3.721 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

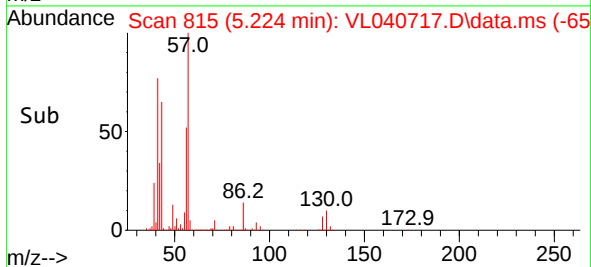
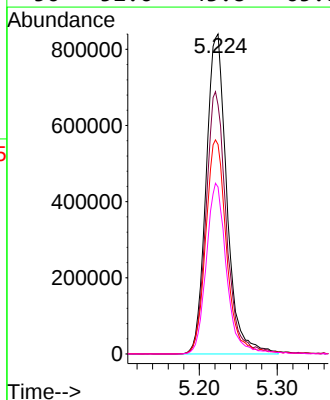
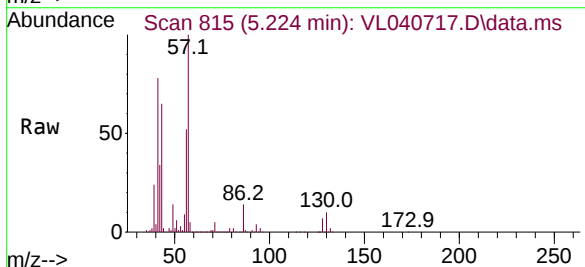
Instrument :
MSVOA_L
ClientSampleId :

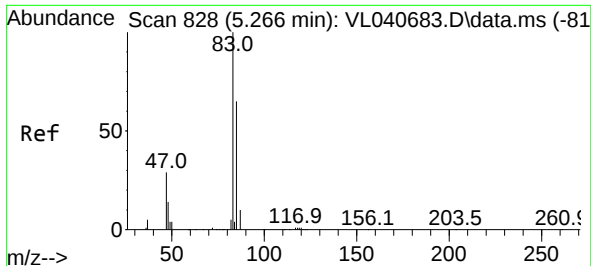
Tgt Ion: 43 Resp: 1028876
Ion Ratio Lower Upper
43 100
45 0.9 8.2 12.4#
61 0.5 8.2 12.4#
70 1.8 5.9 8.9#



#26
Hexane
Concen: 11.866 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Tgt Ion: 57 Resp: 1551270
Ion Ratio Lower Upper
57 100
41 81.7 75.2 112.8
43 67.9 185.6 278.4#
56 52.6 43.8 65.8





#29

Chloroform

Concen: 0.044 ppbv

RT: 5.285 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

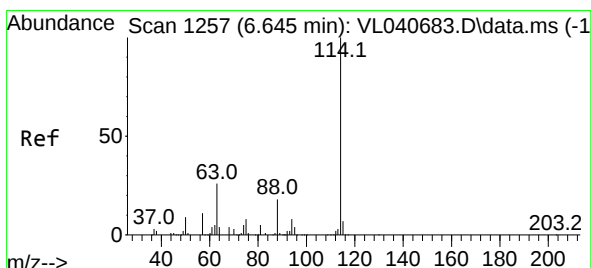
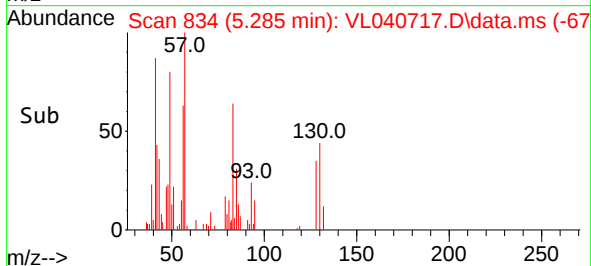
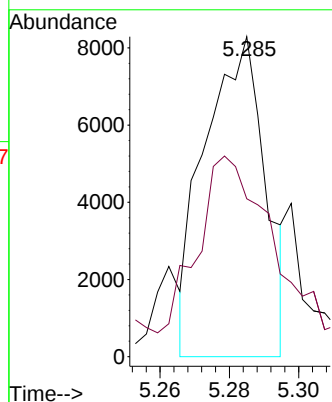
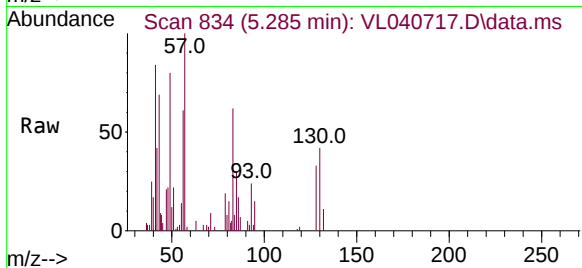
ClientSampleId :

Tgt Ion: 83 Resp: 10027

Ion Ratio Lower Upper

83 100

85 29.5 51.8 77.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.003 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

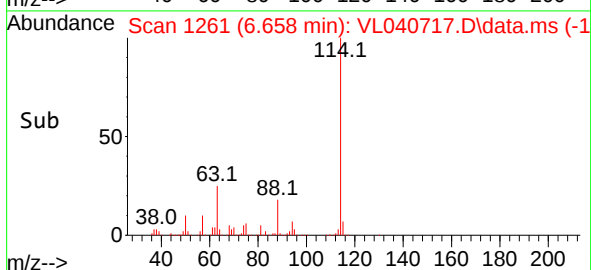
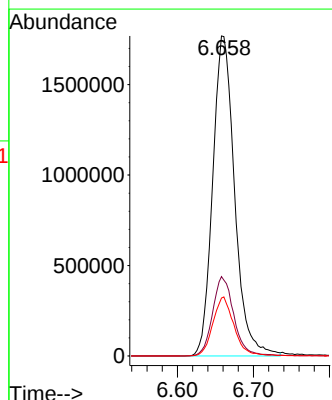
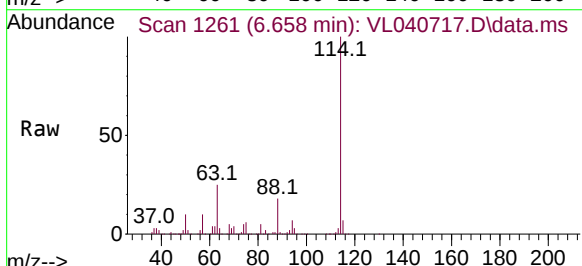
Tgt Ion: 114 Resp: 3548516

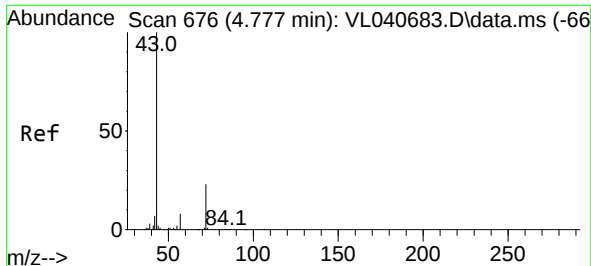
Ion Ratio Lower Upper

114 100

63 24.1 21.1 31.7

88 17.9 14.5 21.7

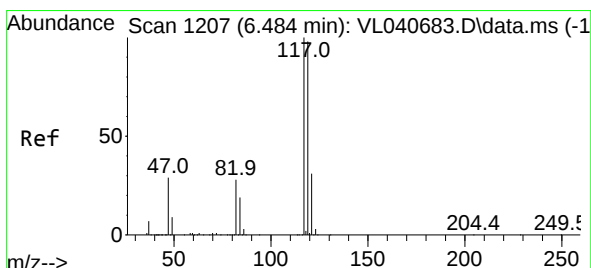
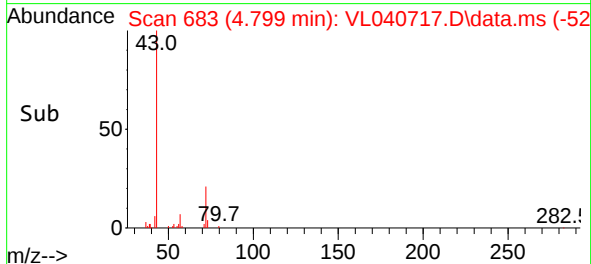
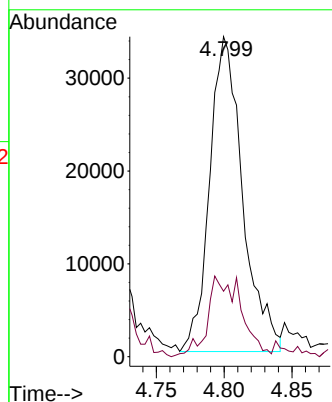
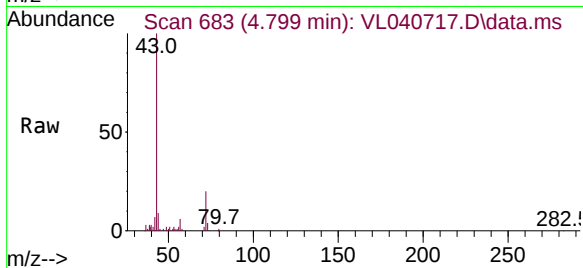




#34
2-Butanone
Concen: 0.322 ppbv
RT: 4.799 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

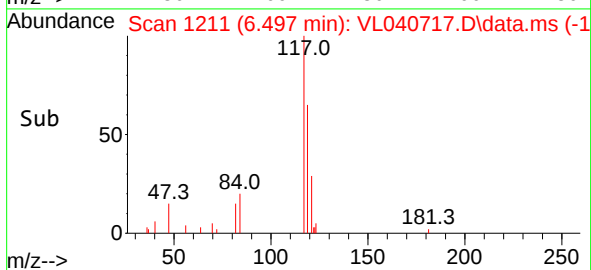
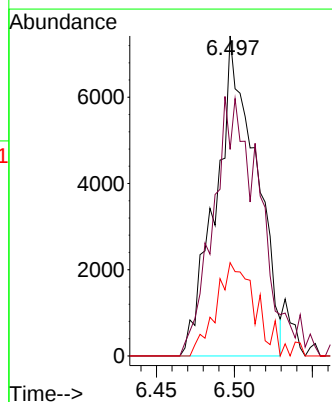
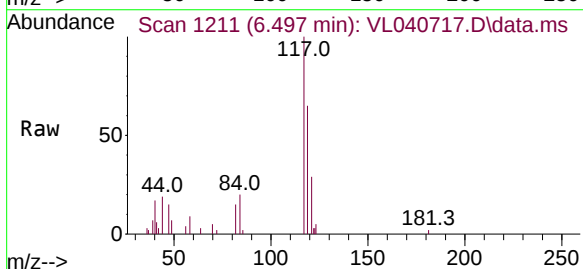
Instrument :
MSVOA_L
ClientSampleId :

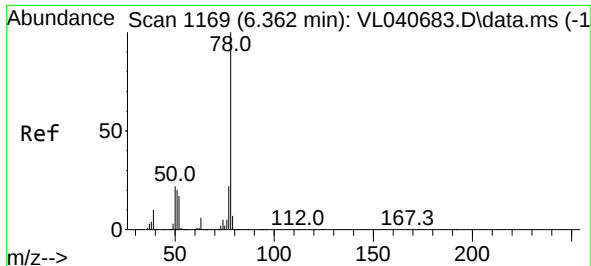
Tgt Ion: 43 Resp: 57508
Ion Ratio Lower Upper
43 100
72 29.0 18.6 27.8#



#35
Carbon Tetrachloride
Concen: 0.055 ppbv
RT: 6.497 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Tgt Ion: 117 Resp: 13344
Ion Ratio Lower Upper
117 100
119 64.6 78.6 117.8#
121 29.2 24.7 37.1





#36

Benzene

Concen: 0.121 ppbv

RT: 6.381 min Scan# 1175

Delta R.T. 0.000 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

ClientSampleId :

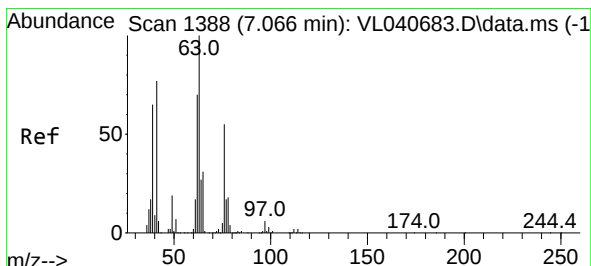
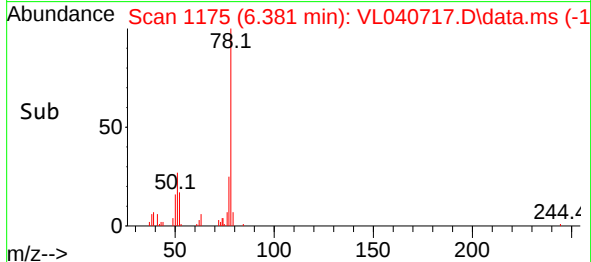
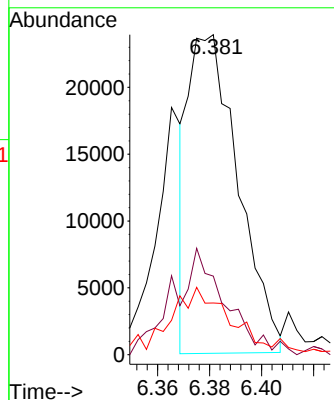
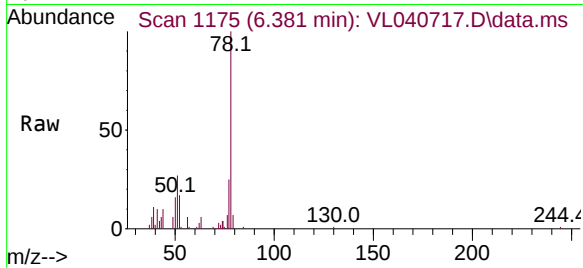
Tgt Ion: 78 Resp: 31750

Ion Ratio Lower Upper

78 100

77 21.6 17.9 26.9

50 10.5 17.3 25.9#



#39

1,2-Dichloropropane

Concen: 8.424 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.424 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

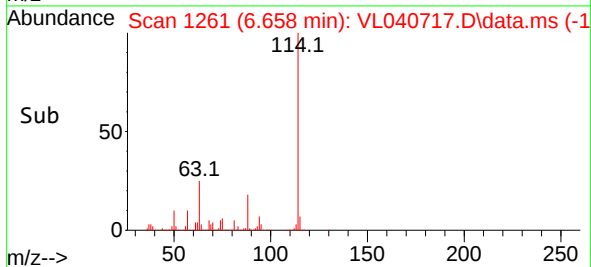
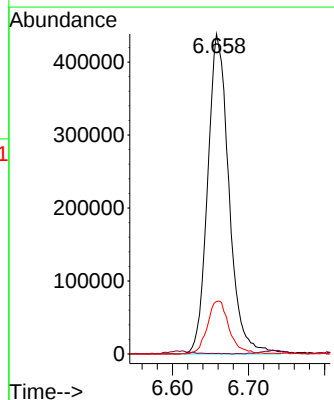
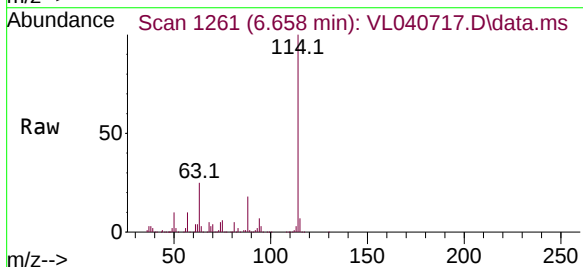
Tgt Ion: 63 Resp: 852054

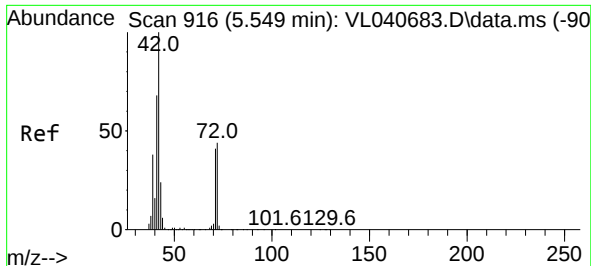
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 16.4 55.8 83.8#





#41

Tetrahydrofuran

Concen: 5.701 ppbv

RT: 5.221 min Scan# 814

Delta R.T. -0.341 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

ClientSampleId :

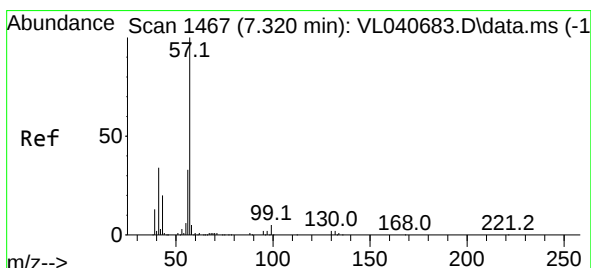
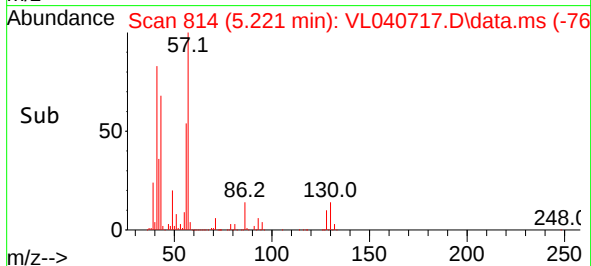
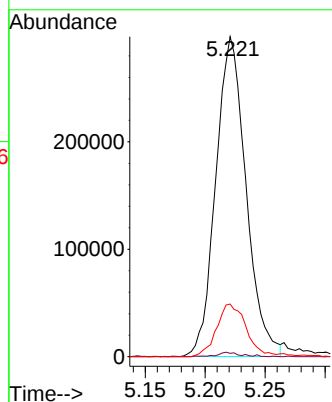
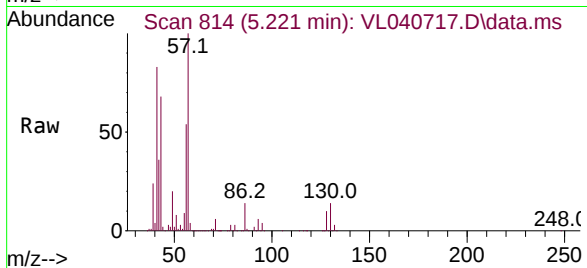
Tgt Ion: 42 Resp: 521724

Ion Ratio Lower Upper

42 100

72 1.1 34.9 52.3#

71 16.8 33.8 50.8#



#44

2,2,4-Trimethylpentane

Concen: 0.064 ppbv

RT: 7.333 min Scan# 1471

Delta R.T. -0.003 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

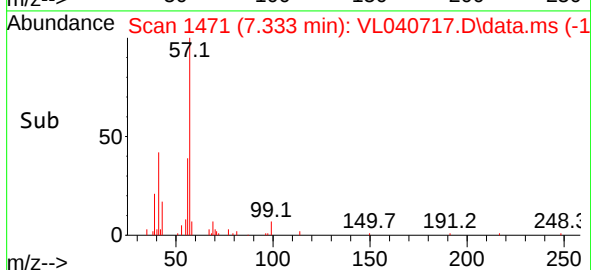
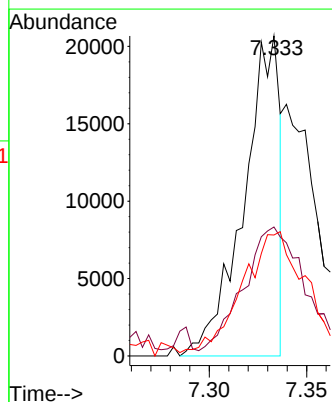
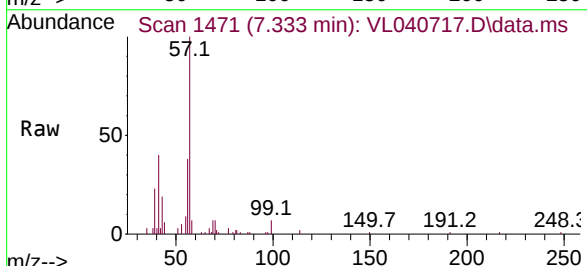
Tgt Ion: 57 Resp: 26596

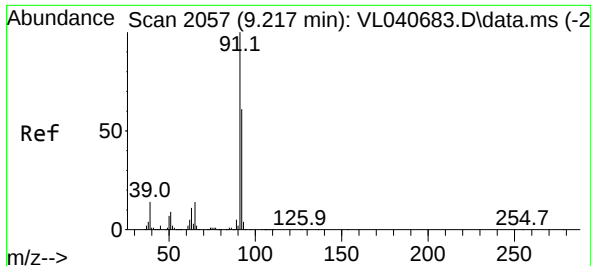
Ion Ratio Lower Upper

57 100

41 78.9 28.5 42.7#

56 0.0 25.4 38.2#

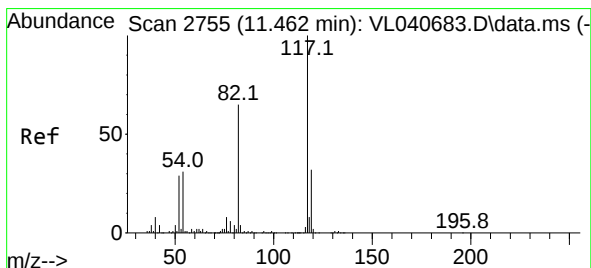
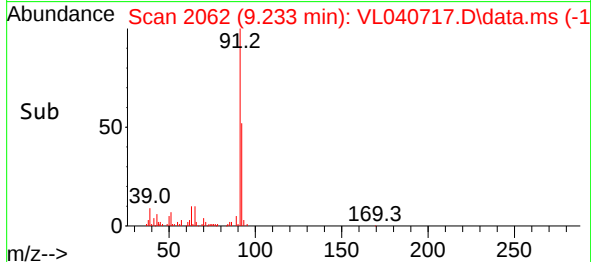
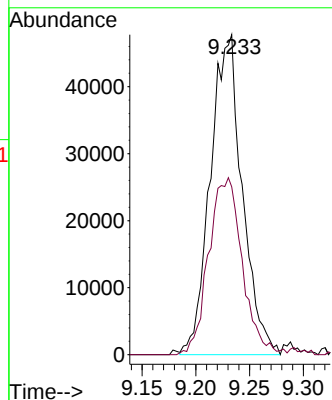
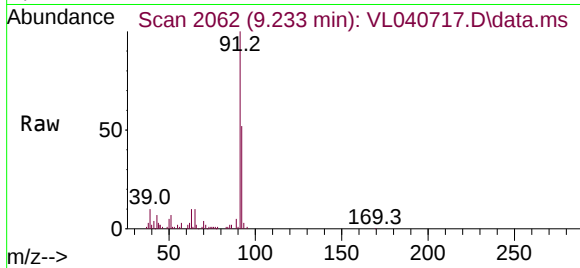




#53
Toluene
Concen: 0.356 ppbv
RT: 9.233 min Scan# 2057
Delta R.T. 0.003 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

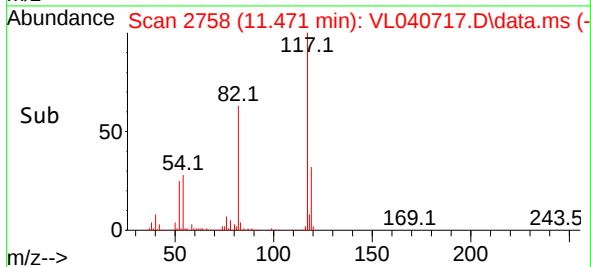
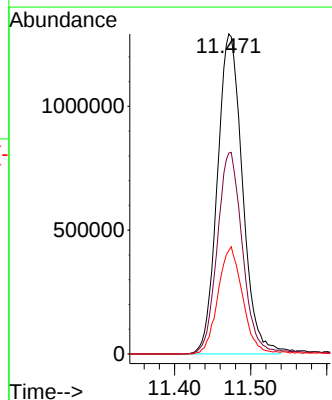
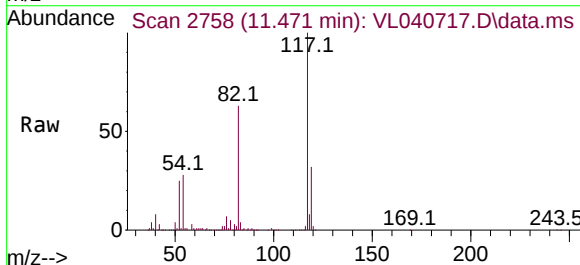
Instrument :
MSVOA_L
ClientSampleId :

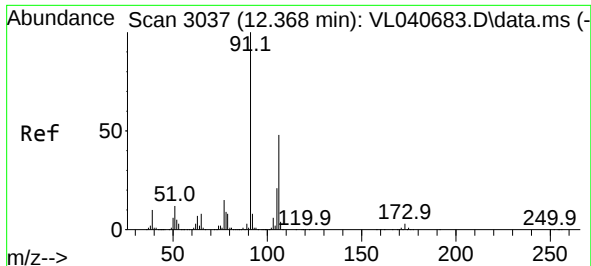
Tgt Ion: 91 Resp: 98675
Ion Ratio Lower Upper
91 100
92 59.0 48.5 72.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.006 min
Lab File: VL040717.D
Acq: 19 Sep 2023 3:06

Tgt Ion: 117 Resp: 2962590
Ion Ratio Lower Upper
117 100
82 64.4 51.4 77.0
119 33.2 24.7 37.1





#59

m/p-Xylene

Concen: 0.030 ppbv

RT: 12.375 min Scan# 3037

Delta R.T. -0.006 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Instrument :

MSVOA_L

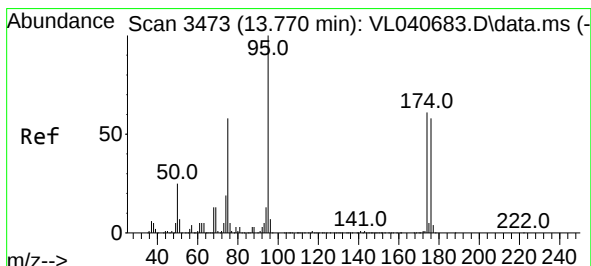
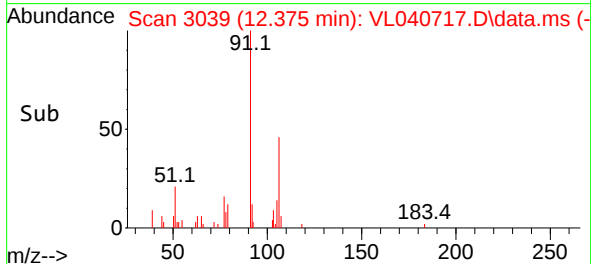
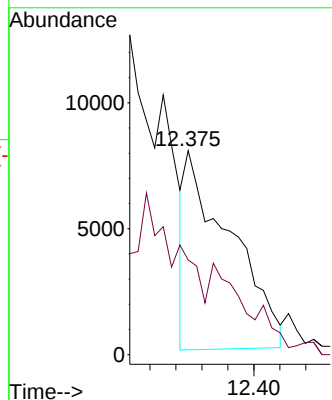
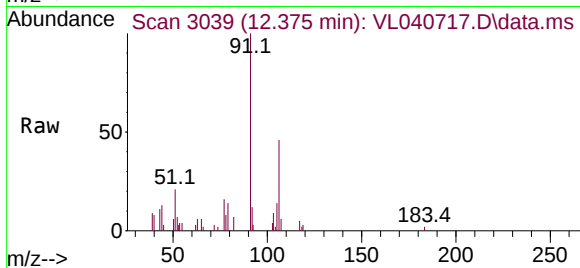
ClientSampleId :

Tgt Ion: 91 Resp: 9584

Ion Ratio Lower Upper

91 100

106 0.0 34.8 52.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.334 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. -0.003 min

Lab File: VL040717.D

Acq: 19 Sep 2023 3:06

Tgt Ion: 95 Resp: 2136468

Ion Ratio Lower Upper

95 100

174 66.6 48.9 73.3

175 4.8 3.5 5.3

