

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
 Data File : VL041553.D
 Acq On : 19 Aug 2024 18:40
 Operator : SY/MD
 Sample : P3658-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Aug 20 02:21:00 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 Aug 20 02:10:04 2024
 Response via : Initial Calibration

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

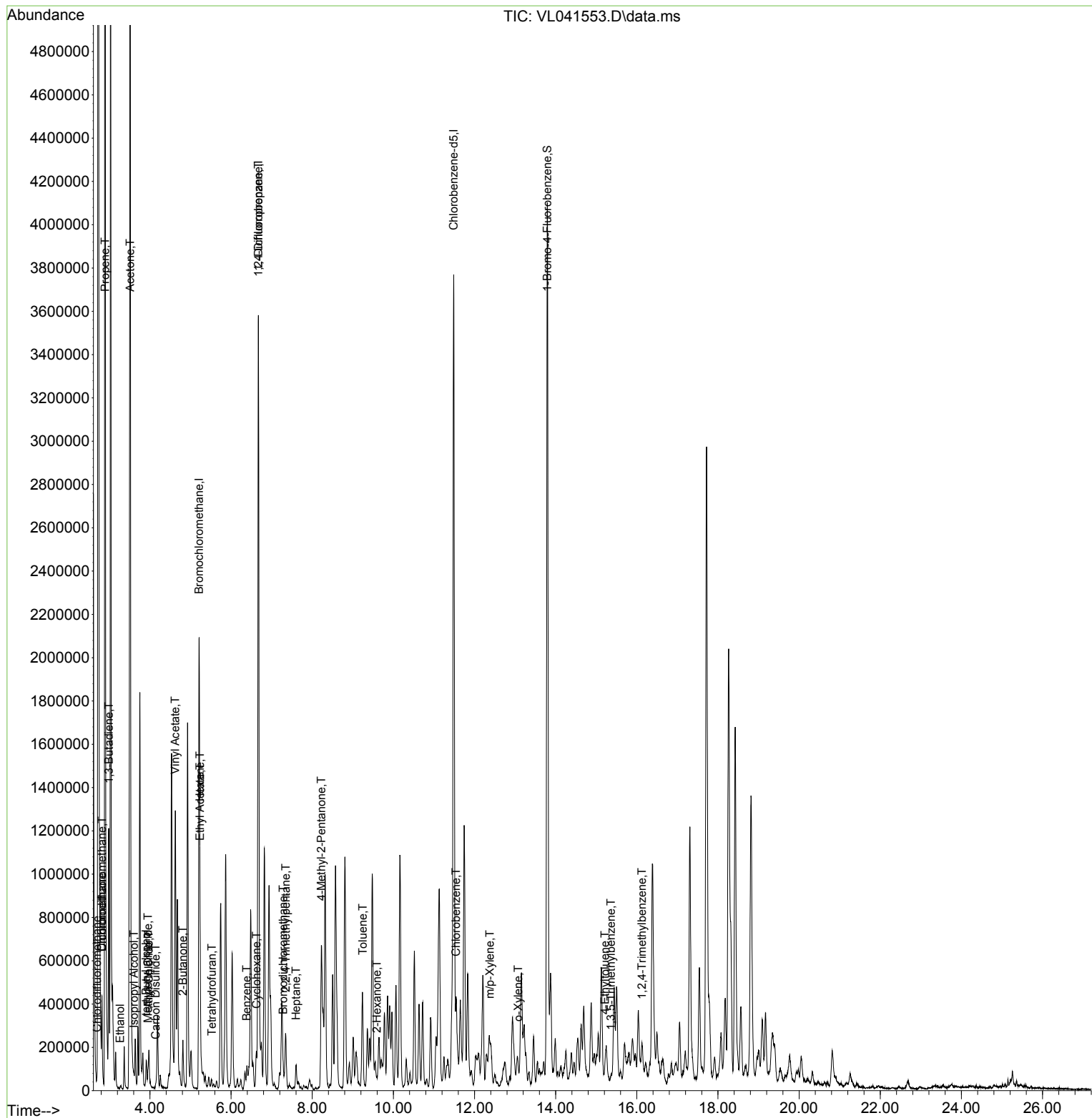
Internal Standards						
1) Bromochloromethane	5.211	49	1030622	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2761835	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2521136	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	2078013	10.710	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 107.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.819	85	27050	0.153	ppbv	93
3) Chlorodifluoromethane	2.694	51	31622	0.258	ppbv	97
4) Chloromethane	2.819	50	3691	0.057	ppbv #	57
9) Propene	2.893	41	2857656	50.702	ppbv	97
10) Heptane	7.603	43	42228	0.333	ppbv	87
13) Ethanol	3.263	45	2402	0.477	ppbv #	41
15) Acetone	3.510	43	3112294	26.578	ppbv #	73
16) 1,3-Butadiene	2.986	39	320989	5.131	ppbv #	27
17) tert-Butyl alcohol	3.909	59	50664	0.474	ppbv #	72
19) Isopropyl Alcohol	3.603	45	28457	0.416	ppbv #	93
20) Methylene Chloride	3.954	84	25054	0.574	ppbv	92
21) Allyl Chloride	3.970	41	23479	0.306	ppbv #	24
23) Vinyl Acetate	4.623	43	636860	7.121	ppbv #	1
25) Ethyl Acetate	5.234	43	119368	0.513	ppbv #	79
26) Hexane	5.230	57	176049	1.824	ppbv #	37
27) Carbon Disulfide	4.140	76	22124	0.196	ppbv #	81
30) Cyclohexane	6.626	84	57417	0.731	ppbv	88
34) 2-Butanone	4.812	43	246732	1.847	ppbv	96
36) Benzene	6.388	78	68230	0.338	ppbv	91
39) 1,2-Dichloropropane	6.671	63	693242	8.973	ppbv #	25
41) Tetrahydrofuran	5.523	42	2331	0.031	ppbv #	80
42) Bromodichloromethane	7.282	83	4929	0.030	ppbv #	30
44) 2,2,4-Trimethylpentane	7.349	57	70323	0.209	ppbv #	1
50) 4-Methyl-2-Pentanone	8.227	43	104943	0.498	ppbv	93
51) 2-Hexanone	9.590	43	10483	0.066	ppbv #	1
53) Toluene	9.243	91	118948	0.529	ppbv	98
57) Chlorobenzene	11.542	112	6181	0.034	ppbv #	34
59) m/p-Xylene	12.381	91	60478	0.241	ppbv #	31
60) o-Xylene	13.079	91	27178	0.115	ppbv #	17
72) 4-Ethyltoluene	15.217	105	9994	0.036	ppbv #	1
73) 1,3,5-Trimethylbenzene	15.362	105	8227	0.034	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.124	105	45373	0.162	ppbv #	70

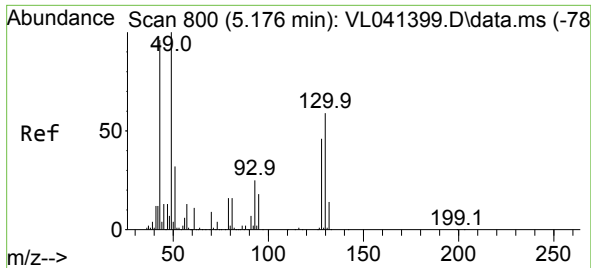
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081924\
Data File : VL041553.D
Acq On : 19 Aug 2024 18:40
Operator : SY/MD
Sample : P3658-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Quant Time: Aug 20 02:21:00 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 Aug 20 02:10:04 2024
Response via : Initial Calibration

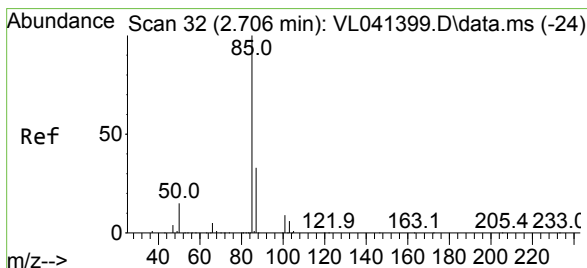
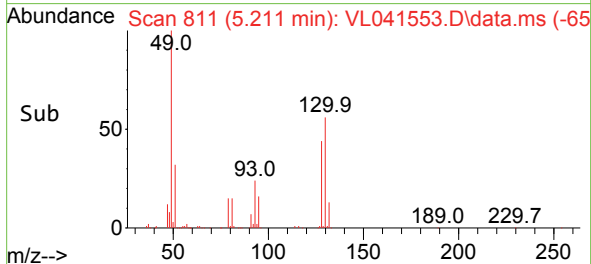
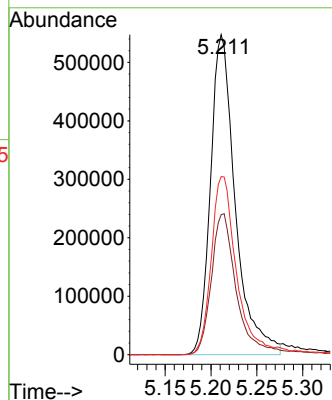
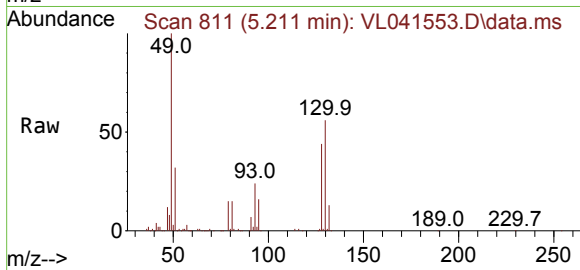




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

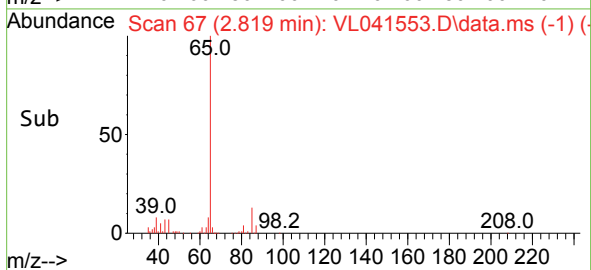
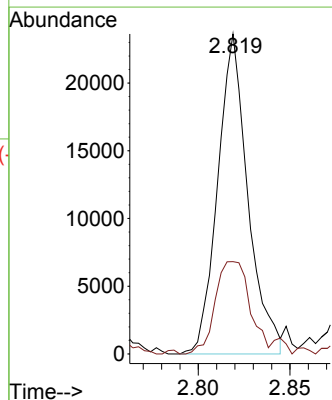
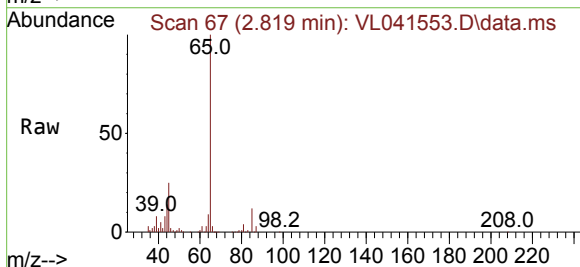
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

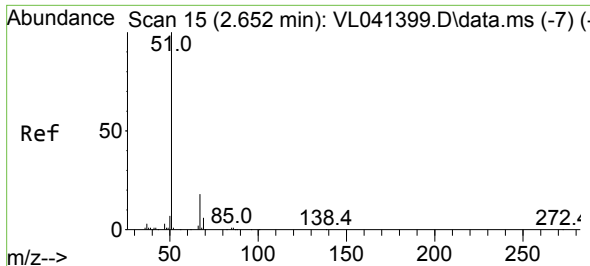
Tgt Ion: 49 Resp: 1030622
 Ion Ratio Lower Upper
 49 100
 128 45.6 23.8 71.4
 130 59.0 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.153 ppbv
 RT: 2.819 min Scan# 67
 Delta R.T. 0.071 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

Tgt Ion: 85 Resp: 27050
 Ion Ratio Lower Upper
 85 100
 87 28.8 26.0 39.0

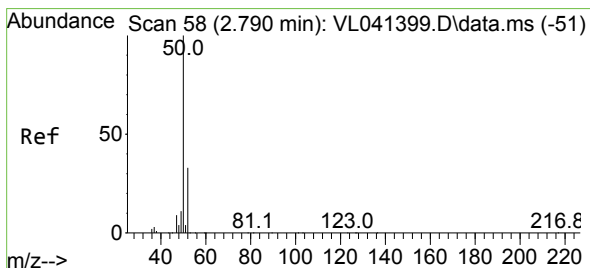
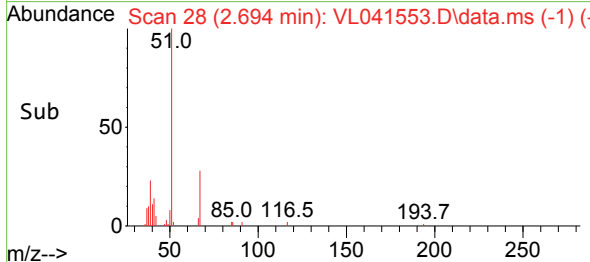
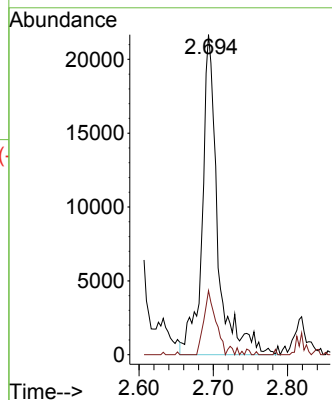
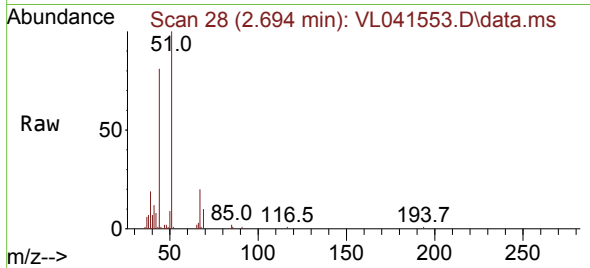




#3
Chlorodifluoromethane
Concen: 0.258 ppbv
RT: 2.694 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

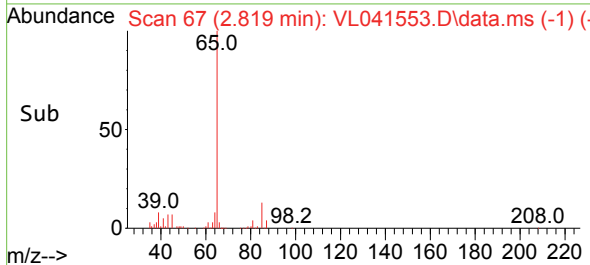
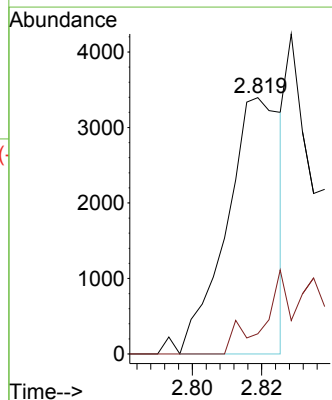
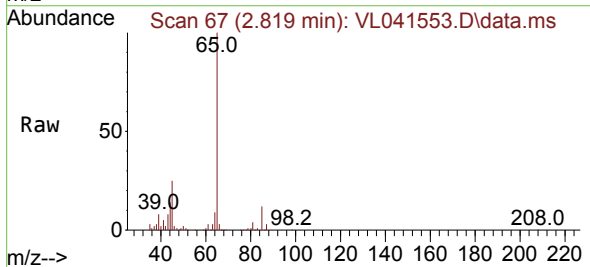
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

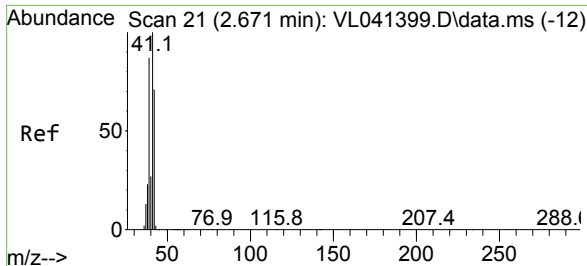
Tgt Ion: 51 Resp: 31622
Ion Ratio Lower Upper
51 100
67 16.8 14.5 21.7



#4
Chloromethane
Concen: 0.057 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.013 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 50 Resp: 3691
Ion Ratio Lower Upper
50 100
52 8.3 26.1 39.1#

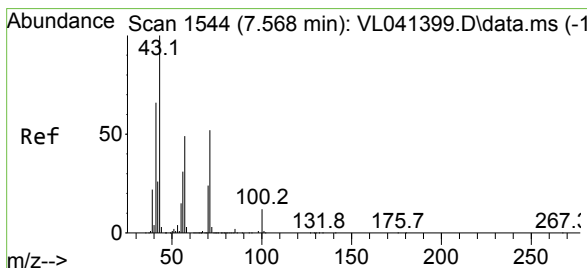
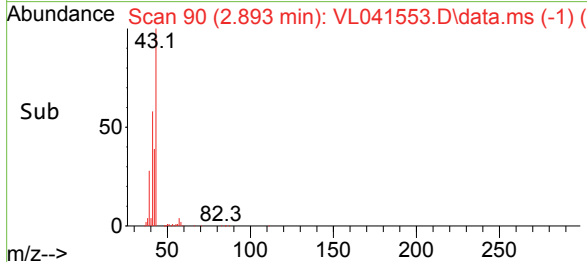
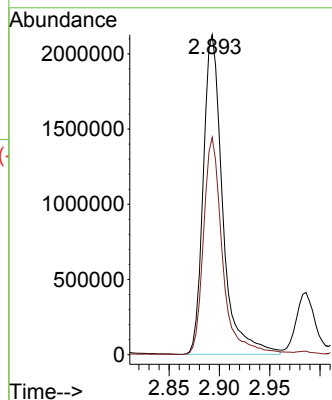
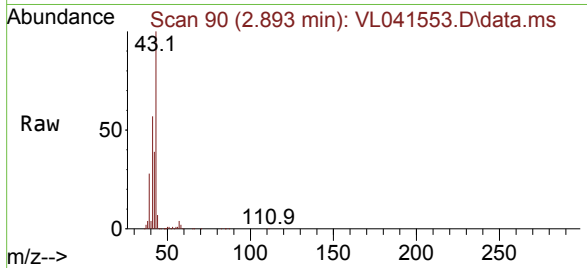




#9
 Propene
 Concen: 50.702 ppbv
 RT: 2.893 min Scan# 90
 Delta R.T. 0.180 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

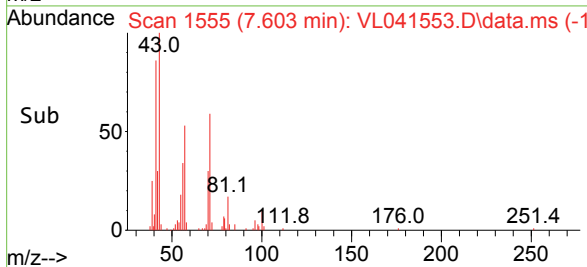
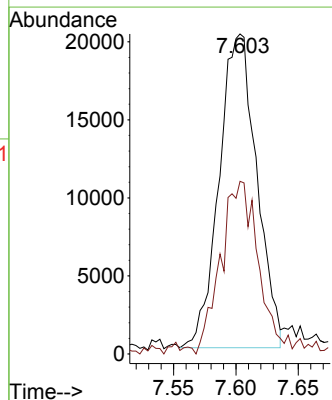
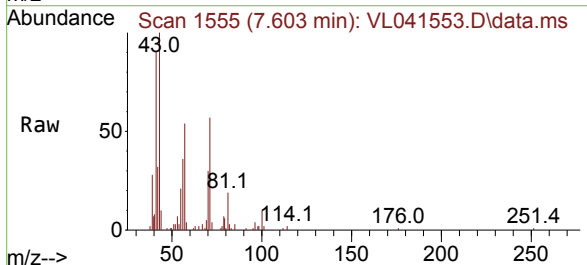
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

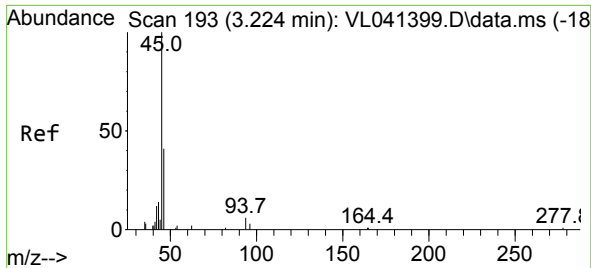
Tgt Ion: 41 Resp: 2857656
 Ion Ratio Lower Upper
 41 100
 42 67.7 55.9 83.9



#10
 Heptane
 Concen: 0.333 ppbv
 RT: 7.603 min Scan# 1555
 Delta R.T. 0.006 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

Tgt Ion: 43 Resp: 42228
 Ion Ratio Lower Upper
 43 100
 57 59.9 40.5 60.7

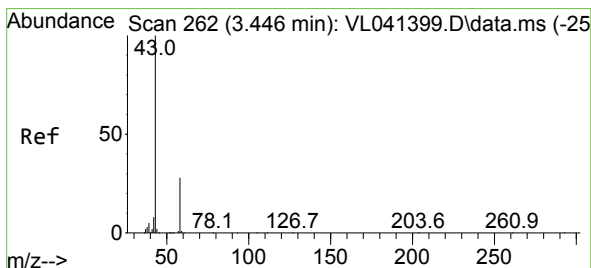
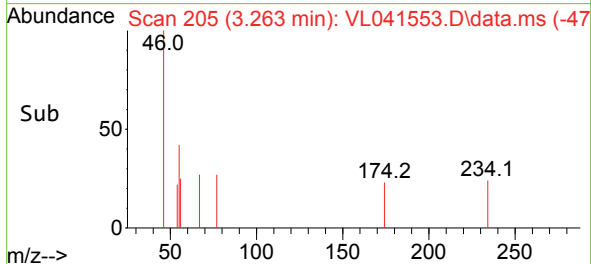
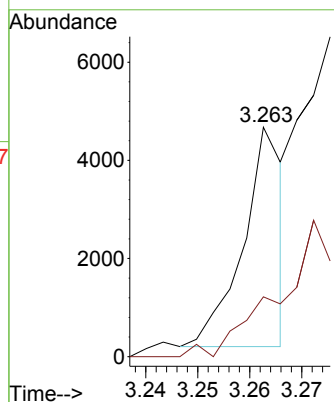
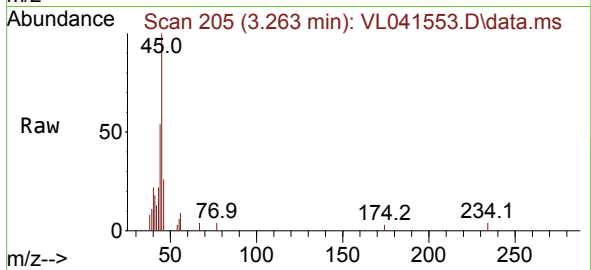




#13
Ethanol
Concen: 0.477 ppbv
RT: 3.263 min Scan# 205
Delta R.T. 0.006 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

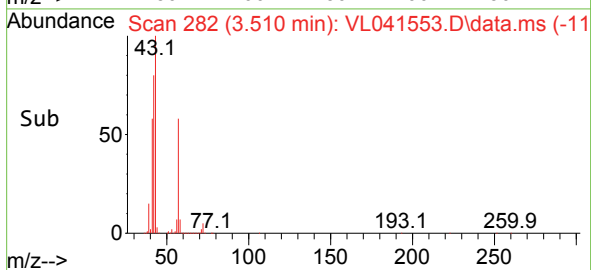
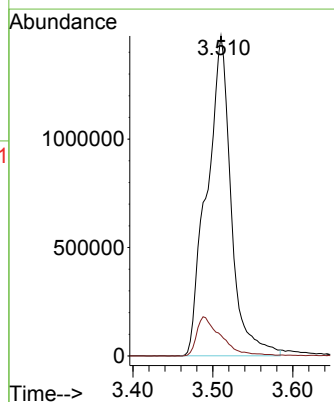
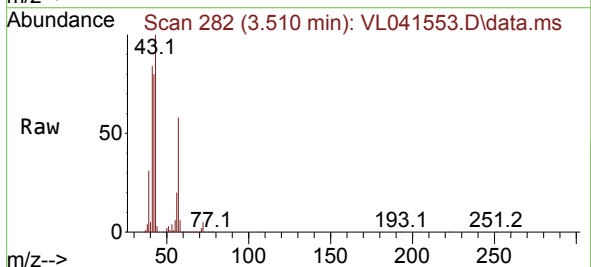
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

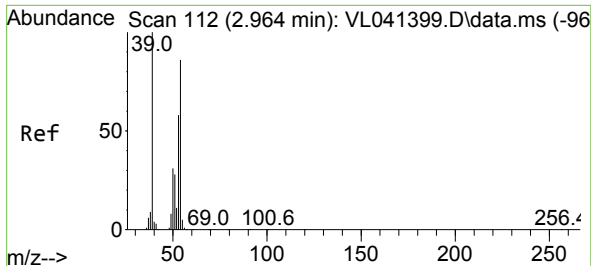
Tgt Ion: 45 Resp: 2402
Ion Ratio Lower Upper
45 100
46 0.0 13.4 53.4#



#15
Acetone
Concen: 26.578 ppbv
RT: 3.510 min Scan# 282
Delta R.T. 0.026 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 43 Resp: 3112294
Ion Ratio Lower Upper
43 100
58 12.7 21.4 32.2#

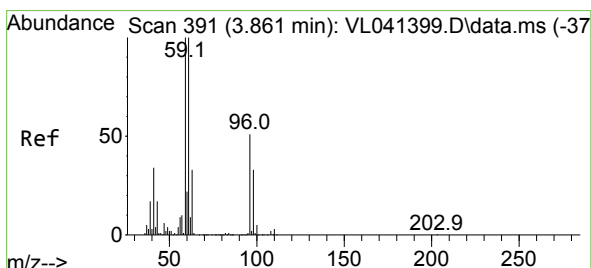
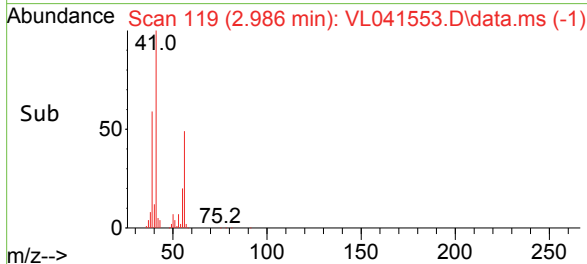
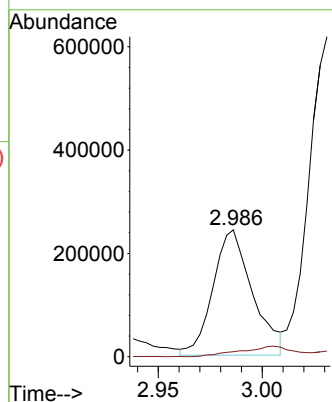
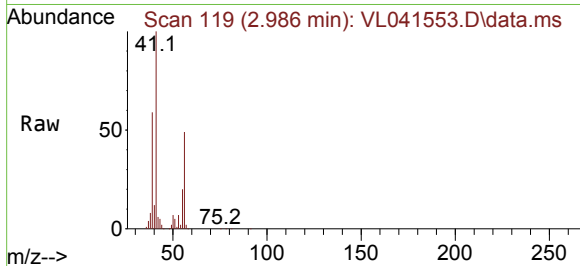




#16
1,3-Butadiene
Concen: 5.131 ppbv
RT: 2.986 min Scan# 112
Delta R.T. -0.016 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

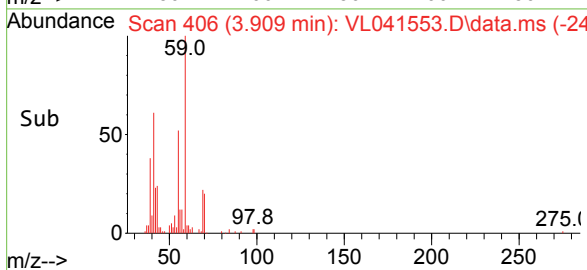
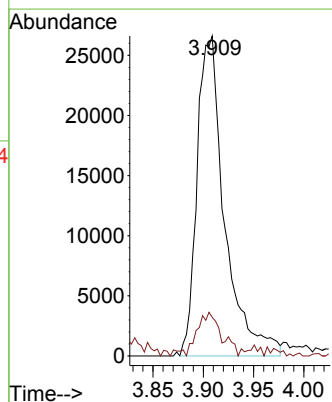
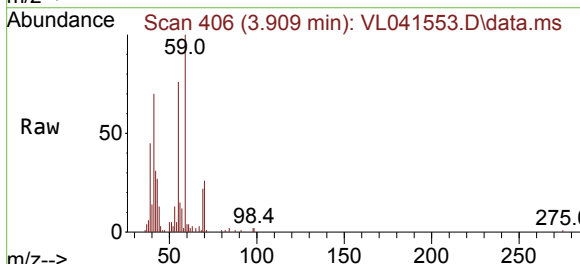
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

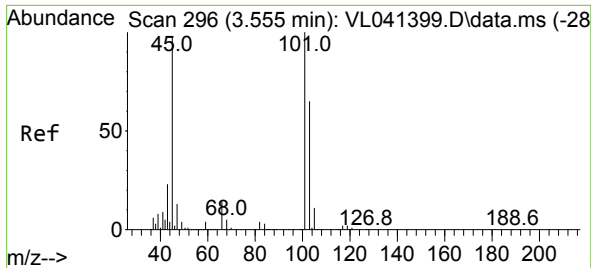
Tgt Ion: 39 Resp: 320989
Ion Ratio Lower Upper
39 100
54 14.9 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.474 ppbv
RT: 3.909 min Scan# 406
Delta R.T. 0.016 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 59 Resp: 50664
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.416 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.013 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

Instrument :

MSVOA_L

ClientSampleId :

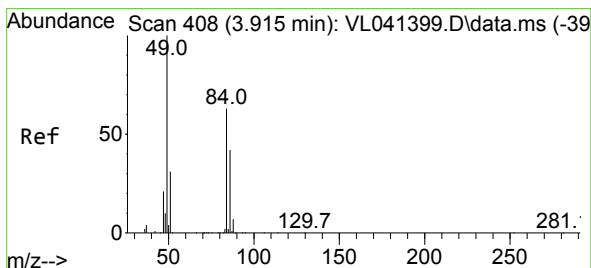
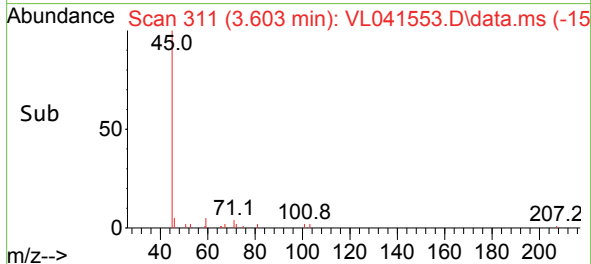
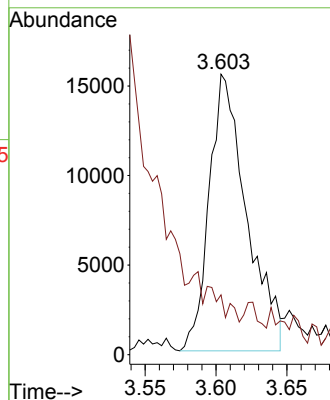
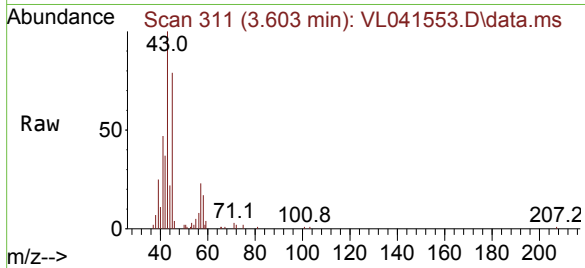
SV2DL

Tgt Ion: 45 Resp: 28457

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 0.574 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.003 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

Tgt Ion: 84 Resp: 25054

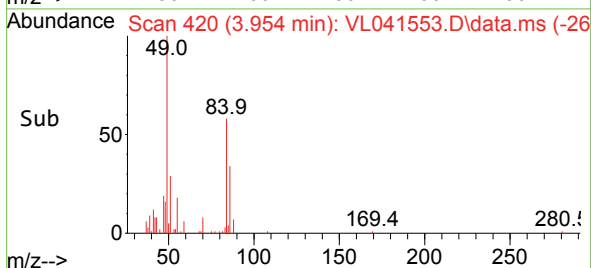
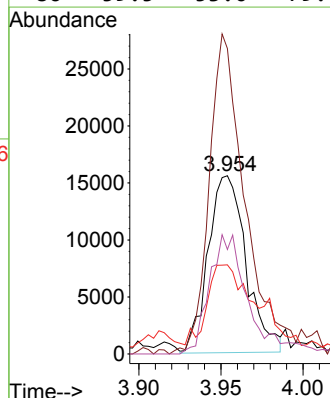
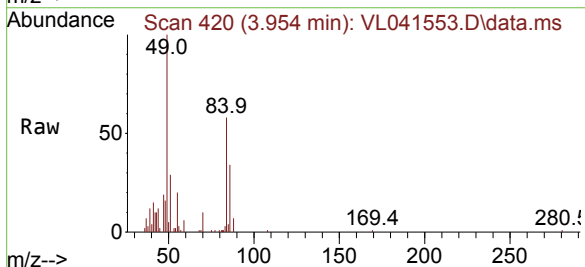
Ion Ratio Lower Upper

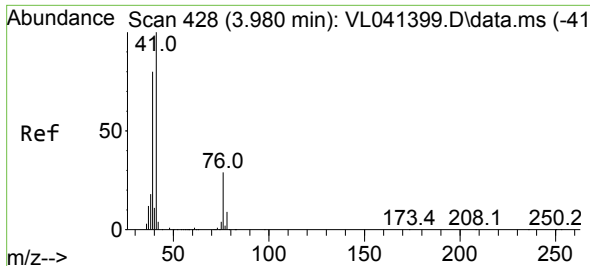
84 100

49 170.4 126.6 190.0

51 44.6 38.6 58.0

86 59.5 53.0 79.4

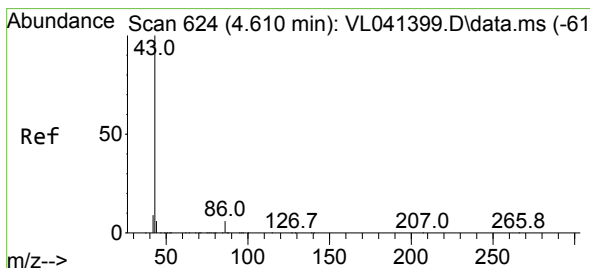
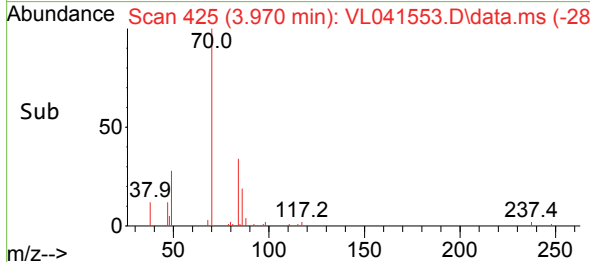
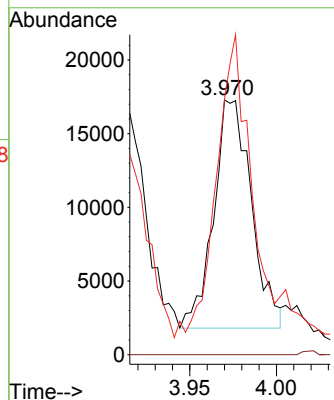
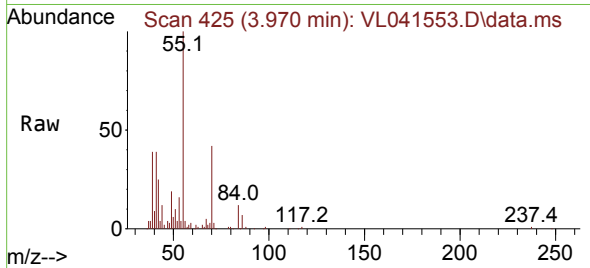




#21
 Allyl Chloride
 Concen: 0.306 ppbv
 RT: 3.970 min Scan# 41
 Delta R.T. -0.042 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

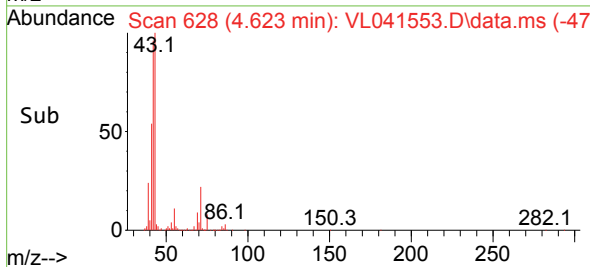
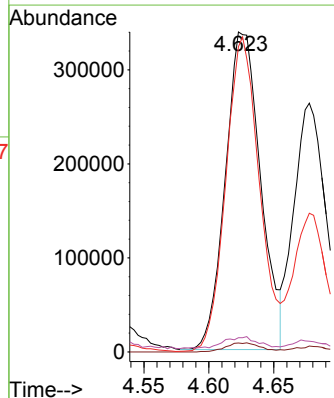
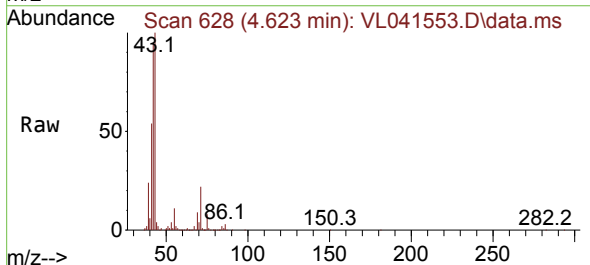
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

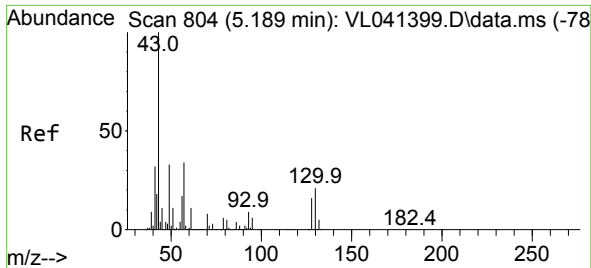
Tgt Ion: 41 Resp: 23479
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 154.7 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 7.121 ppbv
 RT: 4.623 min Scan# 628
 Delta R.T. -0.019 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

Tgt Ion: 43 Resp: 636860
 Ion Ratio Lower Upper
 43 100
 86 2.8 4.6 6.8#
 42 95.9 7.9 11.9#
 44 3.4 4.2 6.4#

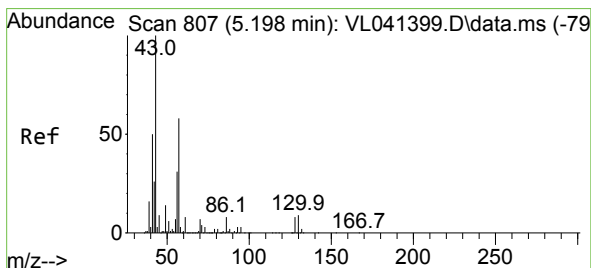
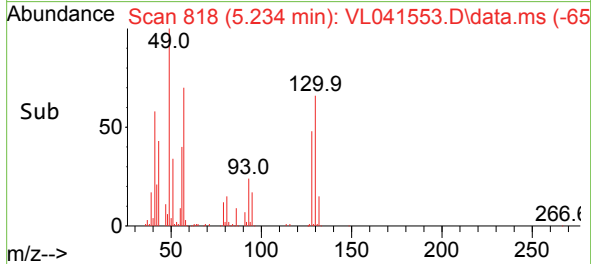
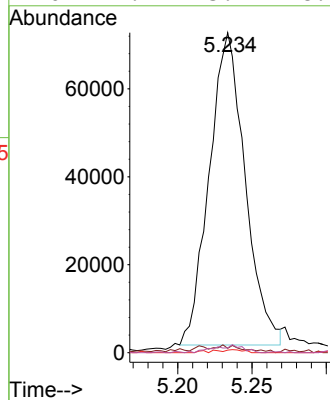
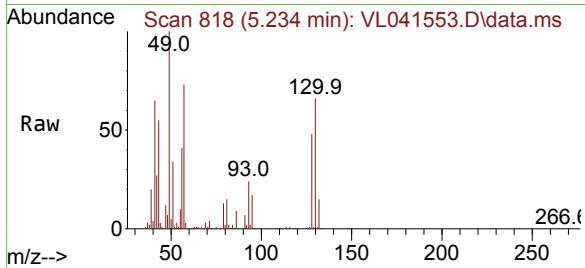




#25
Ethyl Acetate
Concen: 0.513 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.013 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

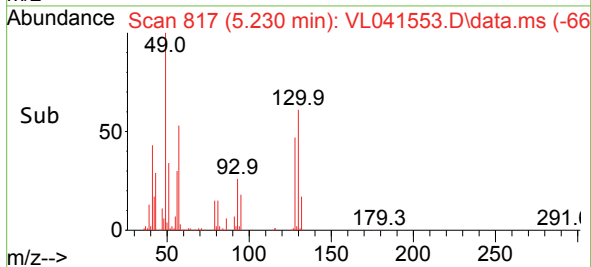
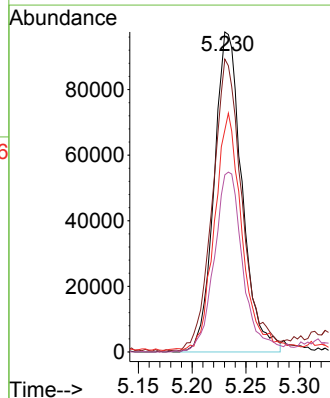
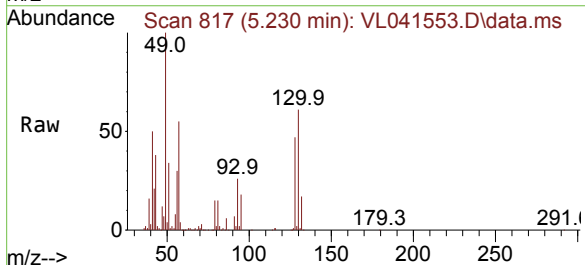
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

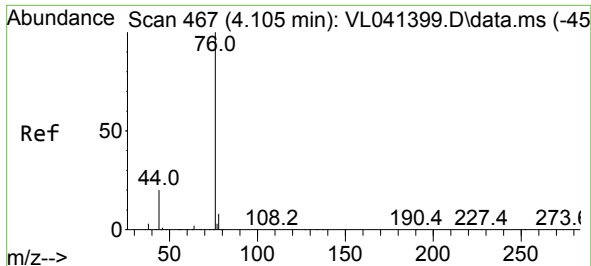
Tgt Ion: 43 Resp: 119368
Ion Ratio Lower Upper
43 100
45 2.8 8.5 12.7#
61 0.8 8.0 12.0#
70 2.2 5.9 8.9#



#26
Hexane
Concen: 1.824 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.000 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 57 Resp: 176049
Ion Ratio Lower Upper
57 100
41 96.3 74.0 111.0
43 73.5 193.6 290.4#
56 58.0 43.1 64.7





#27

Carbon Disulfide

Concen: 0.196 ppbv

RT: 4.140 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

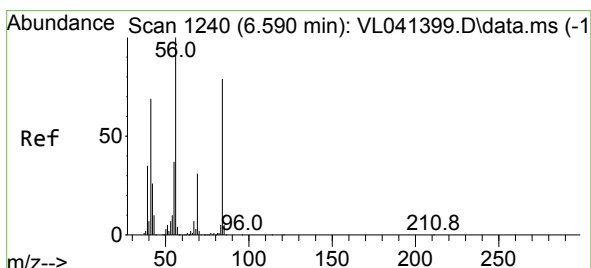
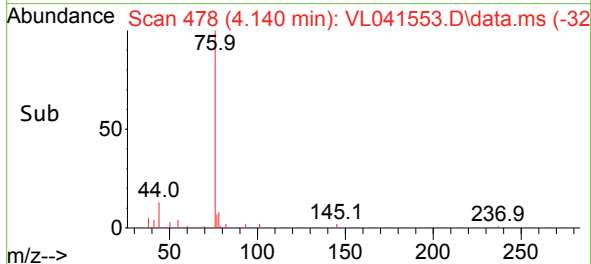
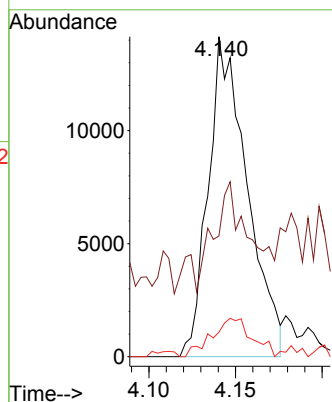
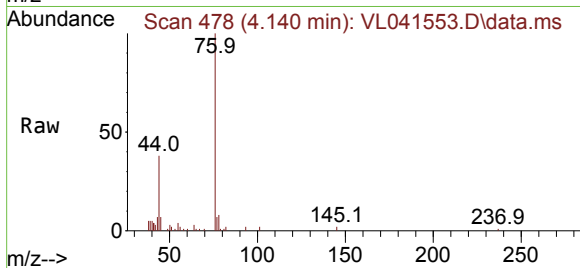
Tgt Ion: 76 Resp: 22124

Ion Ratio Lower Upper

76 100

44 28.5 15.6 23.4#

78 15.5 7.7 11.5#



#30

Cyclohexane

Concen: 0.731 ppbv

RT: 6.626 min Scan# 1251

Delta R.T. 0.003 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

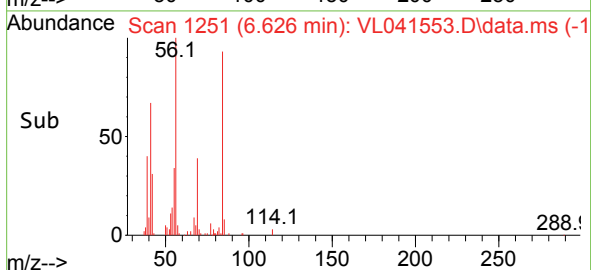
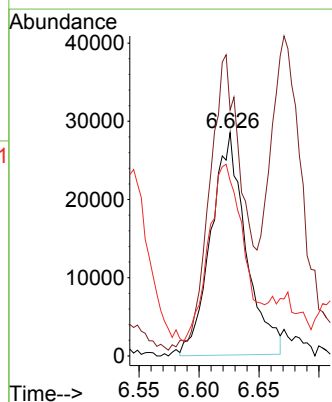
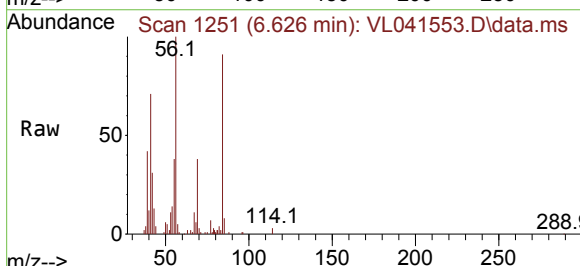
Tgt Ion: 84 Resp: 57417

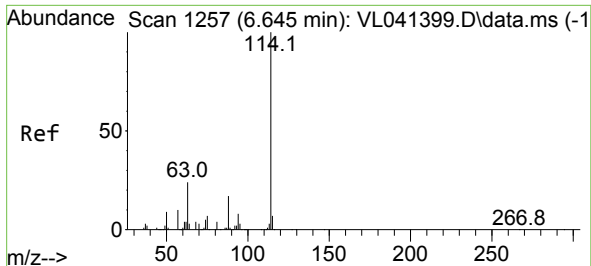
Ion Ratio Lower Upper

84 100

56 117.1 111.2 166.8

41 84.9 70.3 105.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

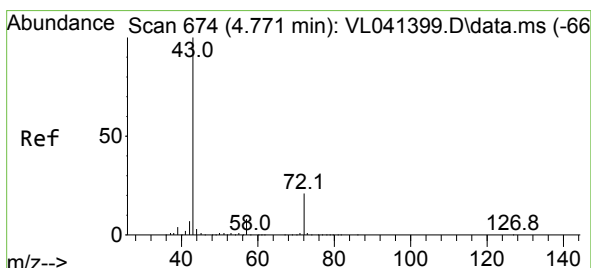
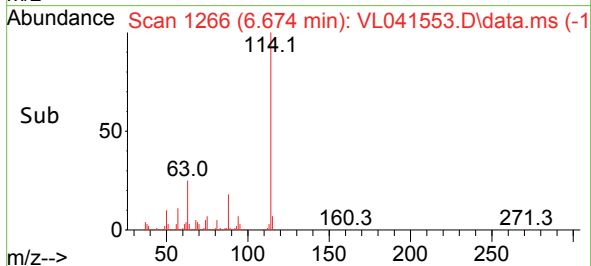
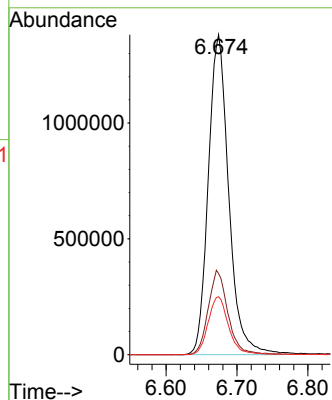
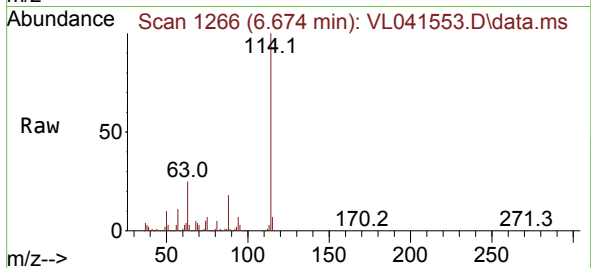
Tgt Ion:114 Resp: 2761835

Ion Ratio Lower Upper

114 100

63 25.6 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 1.847 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.010 min

Lab File: VL041553.D

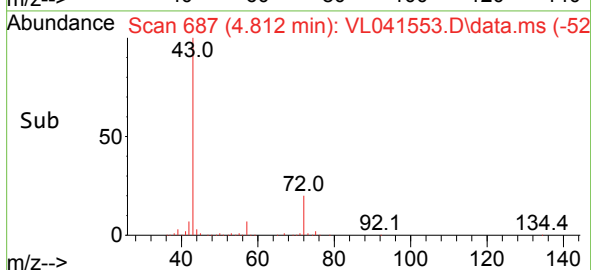
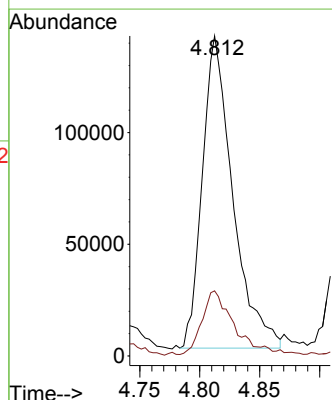
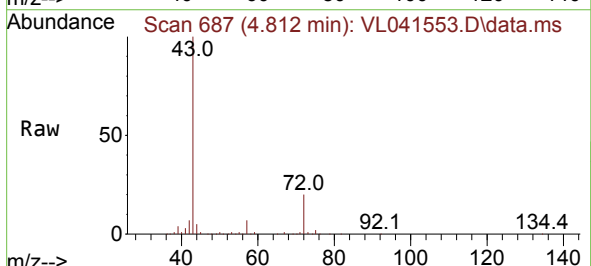
Acq: 19 Aug 2024 18:40

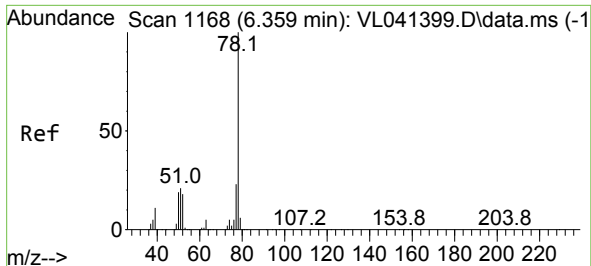
Tgt Ion: 43 Resp: 246732

Ion Ratio Lower Upper

43 100

72 23.3 17.3 25.9

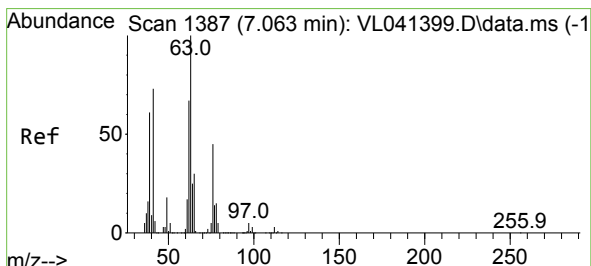
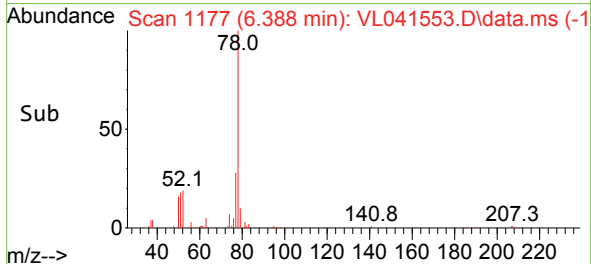
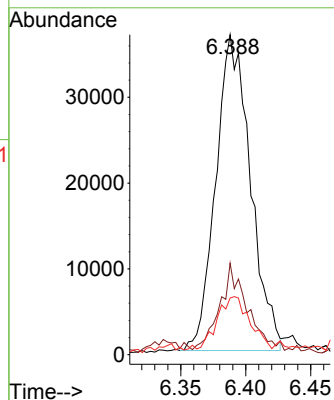
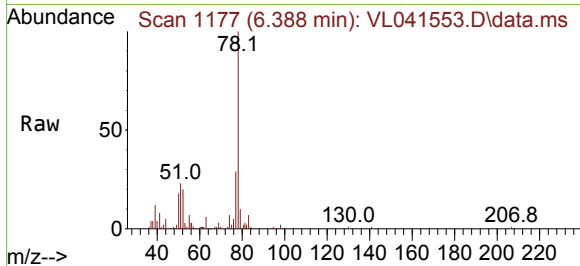




#36
Benzene
Concen: 0.338 ppbv
RT: 6.388 min Scan# 1168
Delta R.T. -0.003 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

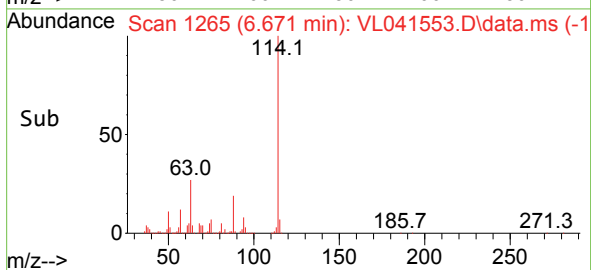
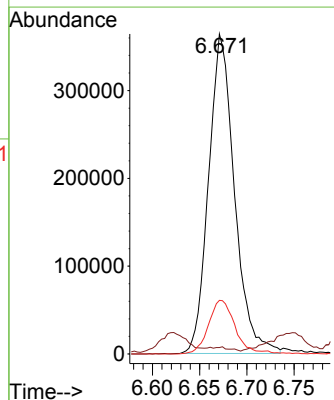
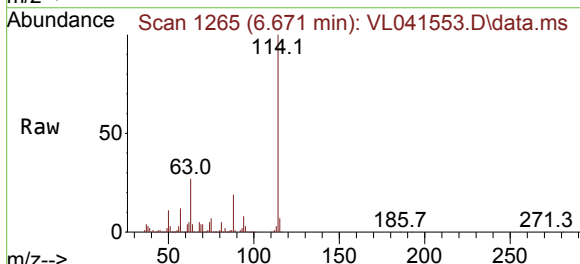
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

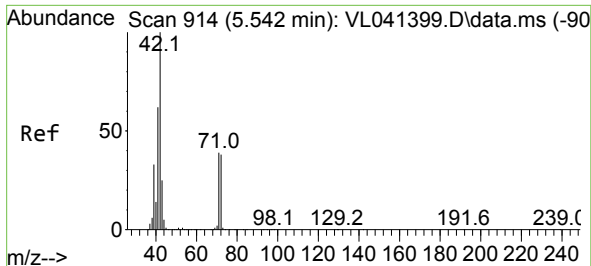
Tgt Ion: 78 Resp: 68230
Ion Ratio Lower Upper
78 100
77 27.1 18.1 27.1
50 15.5 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.973 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. -0.424 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 63 Resp: 693242
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 16.7 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.031 ppbv

RT: 5.523 min Scan# 90

Delta R.T. -0.051 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

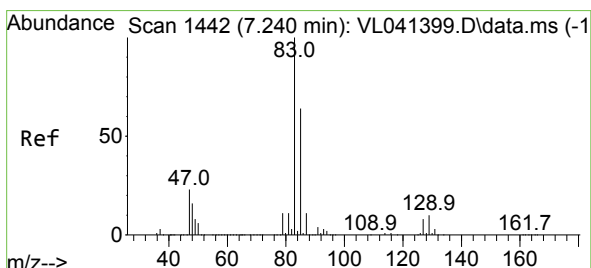
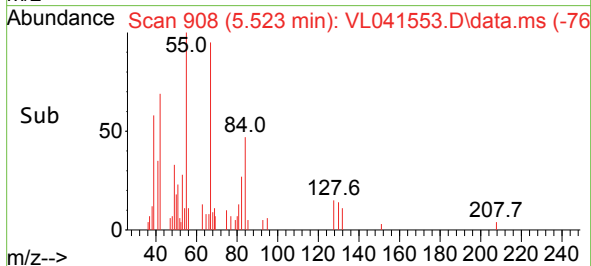
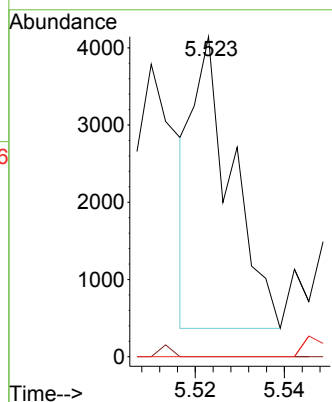
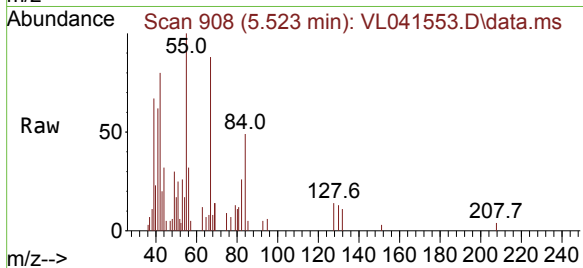
Tgt Ion: 42 Resp: 2331

Ion Ratio Lower Upper

42 100

72 27.1 31.2 46.8#

71 26.1 30.5 45.7#



#42

Bromodichloromethane

Concen: 0.030 ppbv

RT: 7.282 min Scan# 1455

Delta R.T. 0.013 min

Lab File: VL041553.D

Acq: 19 Aug 2024 18:40

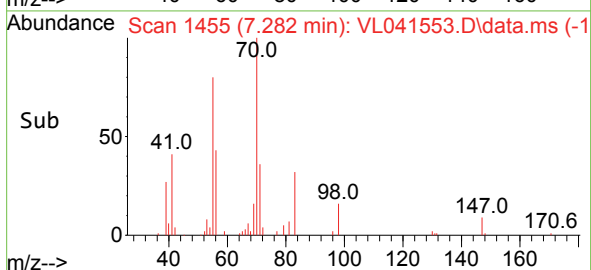
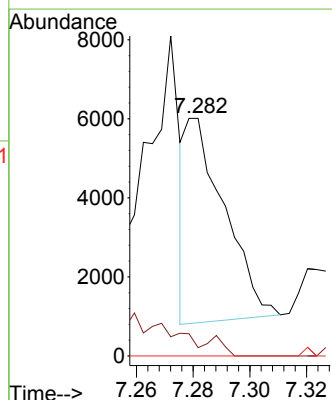
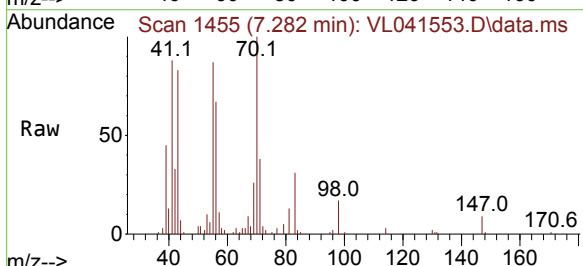
Tgt Ion: 83 Resp: 4929

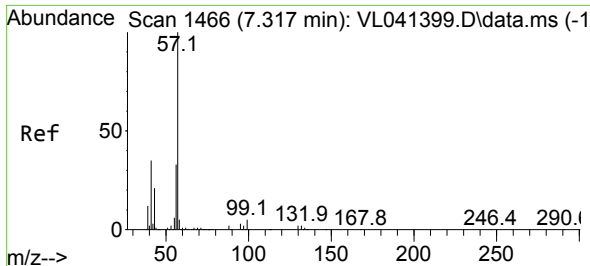
Ion Ratio Lower Upper

83 100

85 4.2 51.4 77.0#

127 0.0 6.7 10.1#

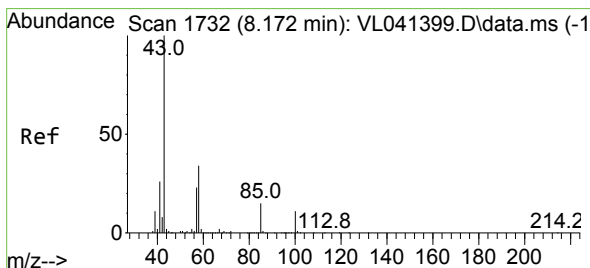
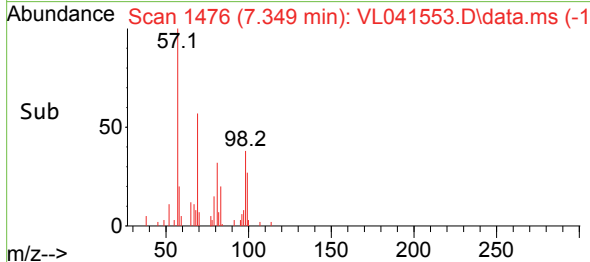
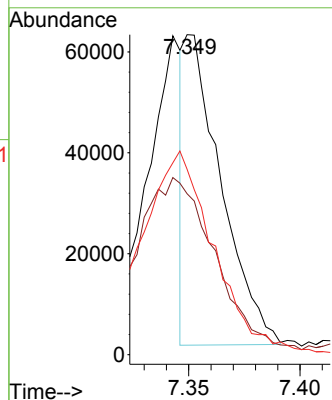
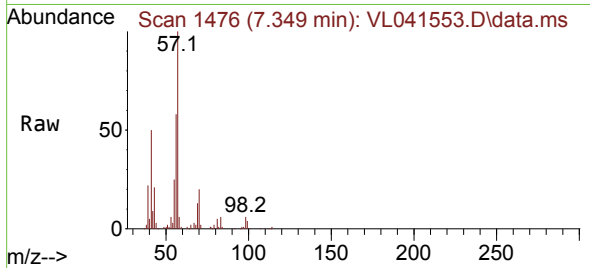




#44
2,2,4-Trimethylpentane
Concen: 0.209 ppbv
RT: 7.349 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

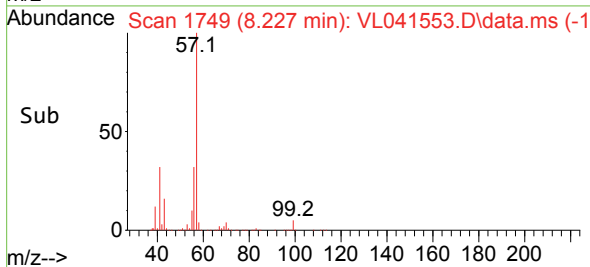
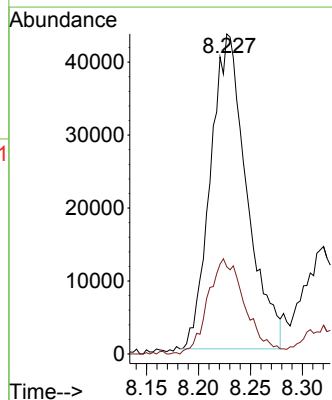
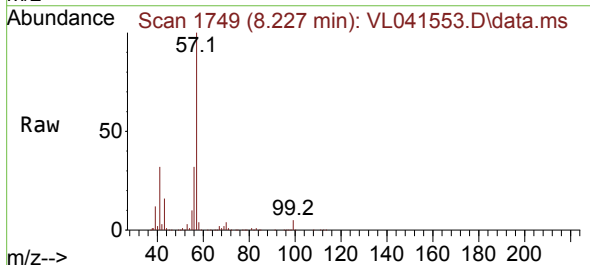
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

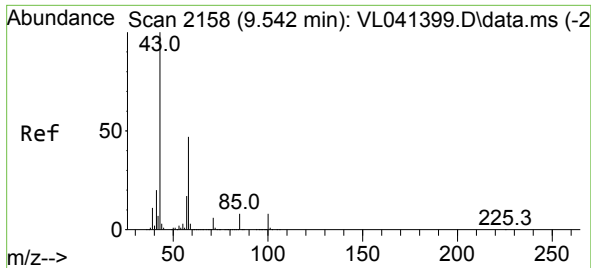
Tgt Ion: 57 Resp: 70323
Ion Ratio Lower Upper
57 100
41 0.0 27.0 40.6#
56 134.9 25.2 37.8#



#50
4-Methyl-2-Pentanone
Concen: 0.498 ppbv
RT: 8.227 min Scan# 1749
Delta R.T. 0.029 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 43 Resp: 104943
Ion Ratio Lower Upper
43 100
58 31.1 27.9 41.9

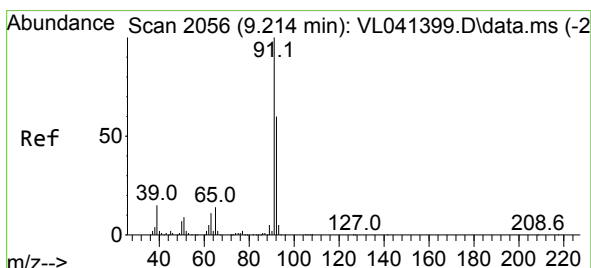
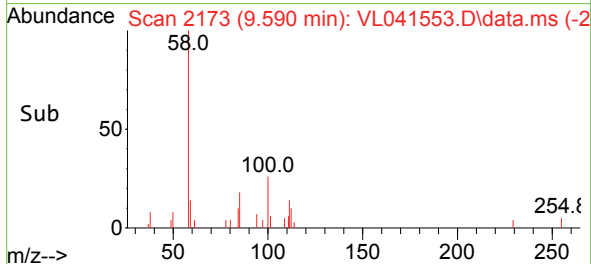
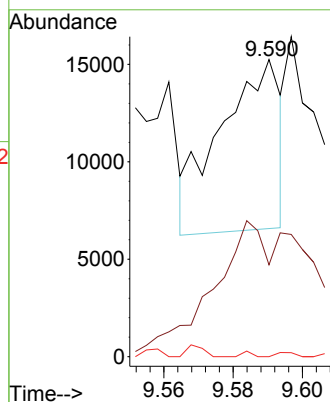
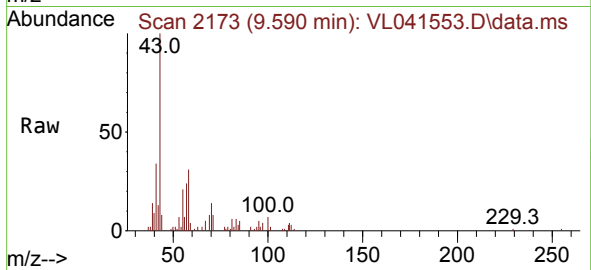




#51
2-Hexanone
Concen: 0.066 ppbv
RT: 9.590 min Scan# 2158
Delta R.T. 0.019 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

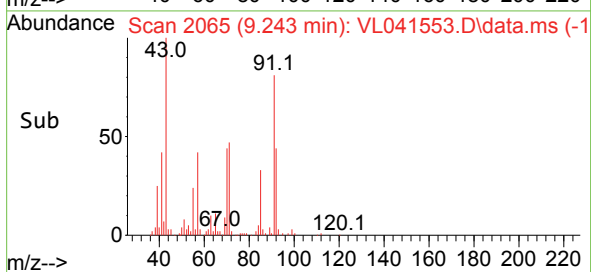
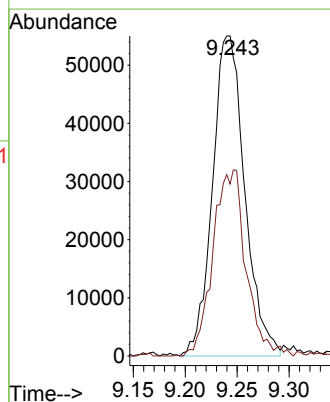
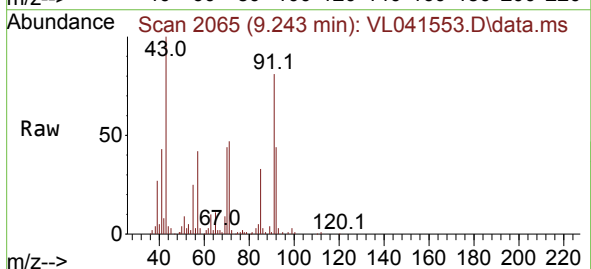
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

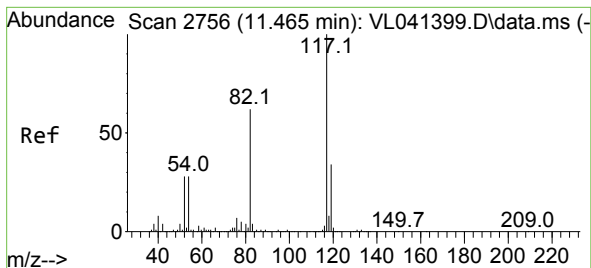
Tgt Ion: 43 Resp: 10483
Ion Ratio Lower Upper
43 100
58 206.6 38.2 57.2#
98 0.0 0.3 0.5#



#53
Toluene
Concen: 0.529 ppbv
RT: 9.243 min Scan# 2065
Delta R.T. 0.003 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 91 Resp: 118948
Ion Ratio Lower Upper
91 100
92 59.4 48.7 73.1

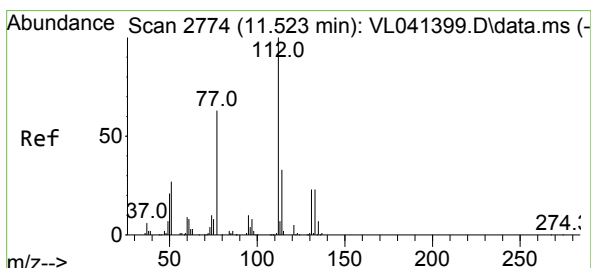
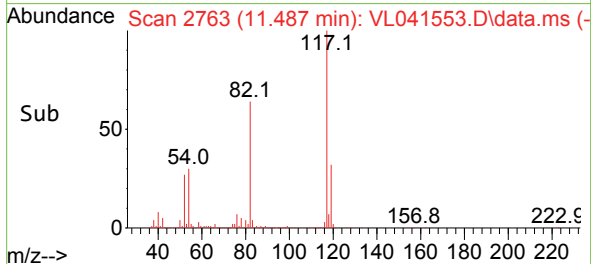
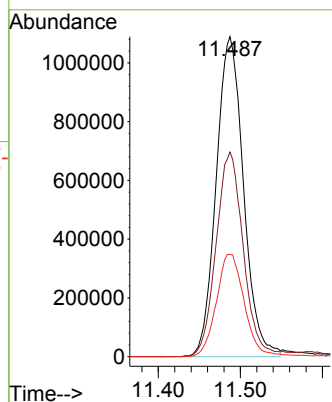
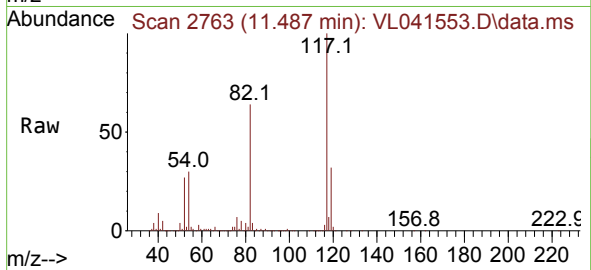




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

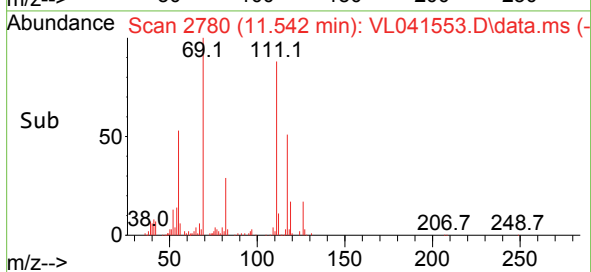
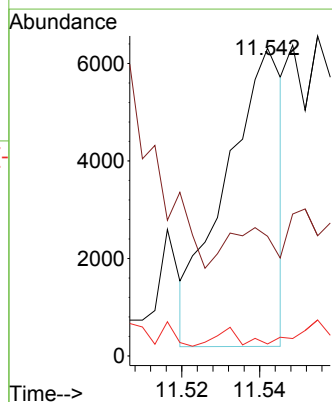
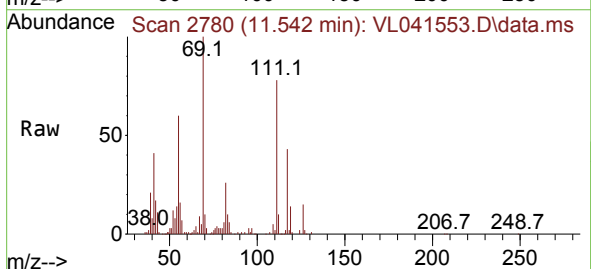
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

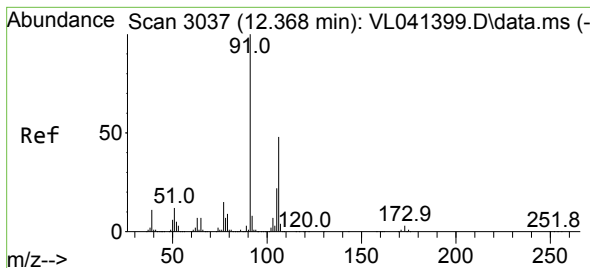
Tgt Ion:117 Resp: 2521136
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 33.3 45.2 67.8#



#57
Chlorobenzene
Concen: 0.034 ppbv
RT: 11.542 min Scan# 2780
Delta R.T. -0.003 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion:112 Resp: 6181
Ion Ratio Lower Upper
112 100
77 9.4 51.1 76.7#
114 0.0 29.5 36.1#

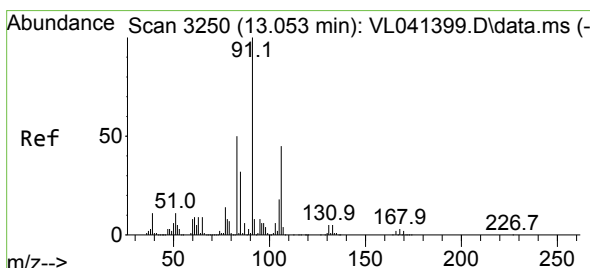
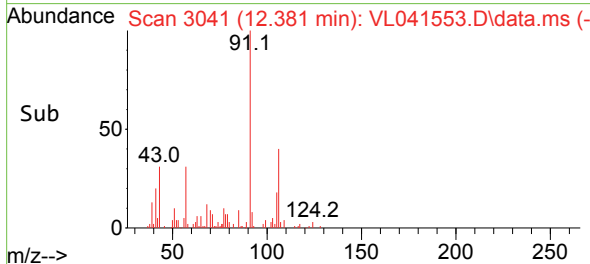
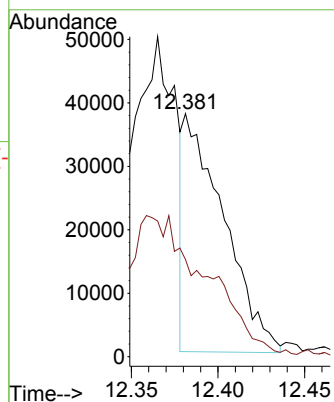
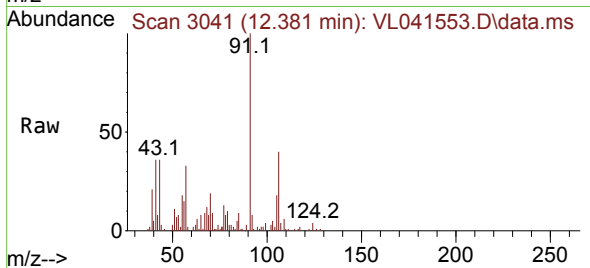




#59
m/p-Xylene
Concen: 0.241 ppbv
RT: 12.381 min Scan# 3037
Delta R.T. -0.013 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

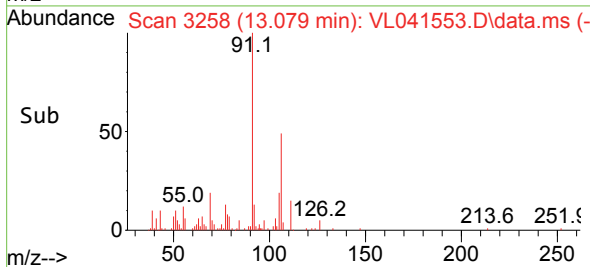
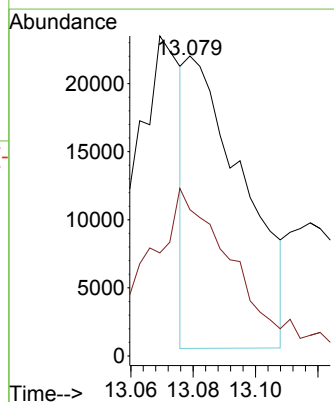
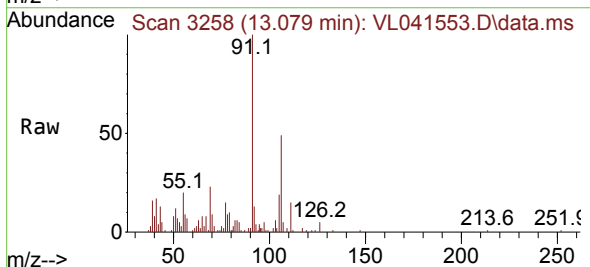
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

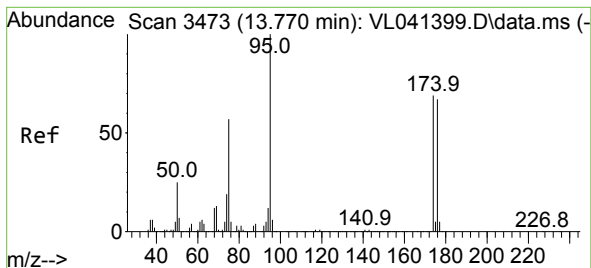
Tgt Ion: 91 Resp: 60478
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#



#60
o-Xylene
Concen: 0.115 ppbv
RT: 13.079 min Scan# 3258
Delta R.T. 0.000 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 91 Resp: 27178
Ion Ratio Lower Upper
91 100
106 101.3 23.1 69.3#

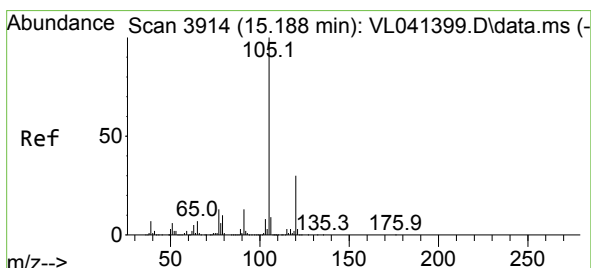
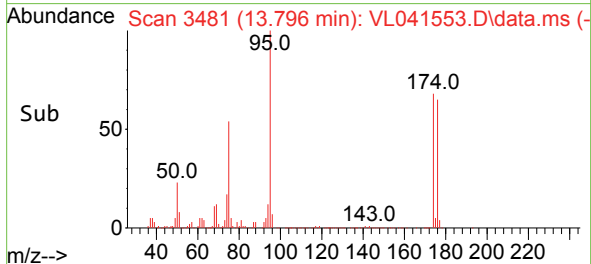
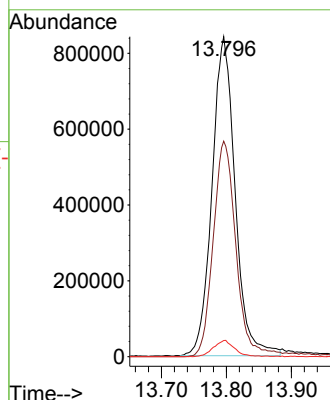
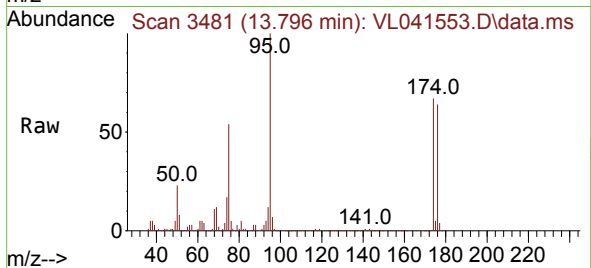




#68
1-Bromo-4-Fluorobenzene
Concen: 10.710 ppbv
RT: 13.796 min Scan# 3473
Delta R.T. -0.003 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

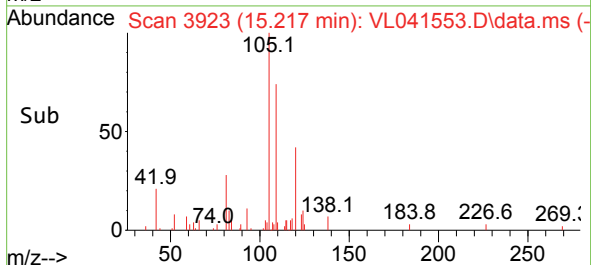
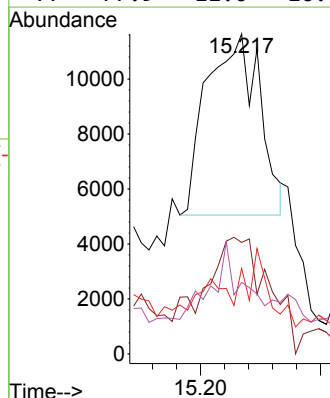
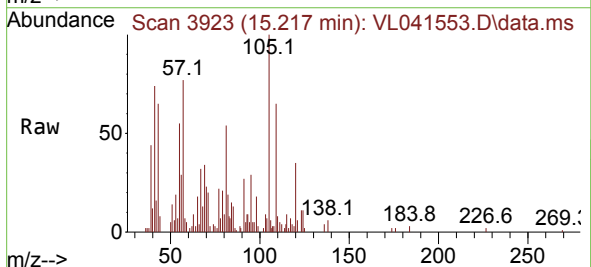
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

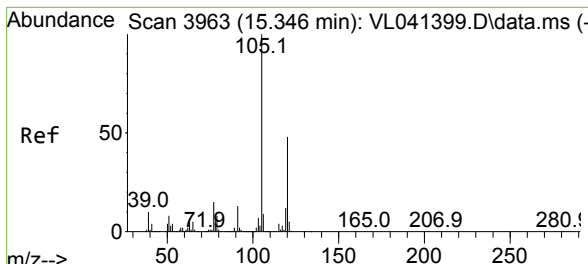
Tgt Ion: 95 Resp: 2078013
Ion Ratio Lower Upper
95 100
174 68.4 56.3 84.5
175 4.8 4.0 6.0



#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 15.217 min Scan# 3923
Delta R.T. 0.003 min
Lab File: VL041553.D
Acq: 19 Aug 2024 18:40

Tgt Ion: 105 Resp: 9994
Ion Ratio Lower Upper
105 100
120 98.2 24.2 36.2#
91 52.6 10.4 15.6#
77 77.9 11.0 16.4#

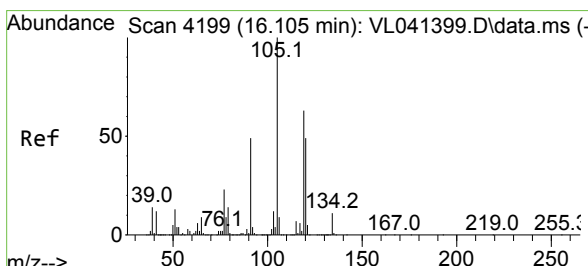
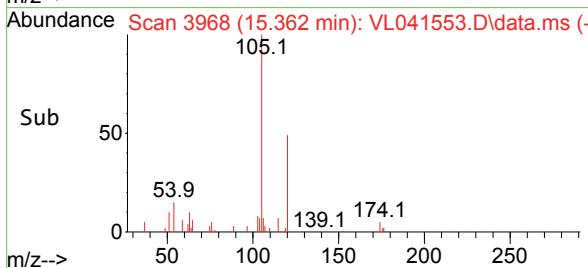
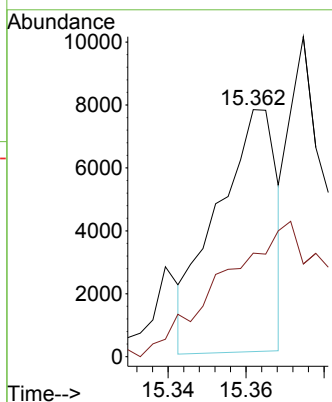
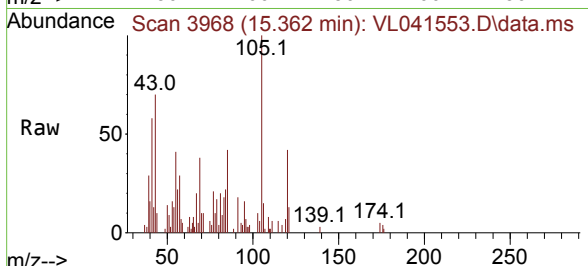




#73
 1,3,5-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 15.362 min Scan# 3968
 Delta R.T. -0.010 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion:105 Resp: 8227
 Ion Ratio Lower Upper
 105 100
 120 36.5 38.6 57.8#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.162 ppbv
 RT: 16.124 min Scan# 4205
 Delta R.T. -0.003 min
 Lab File: VL041553.D
 Acq: 19 Aug 2024 18:40

Tgt Ion:105 Resp: 45373
 Ion Ratio Lower Upper
 105 100
 120 44.4 39.5 59.3
 91 11.7 39.8 59.8#
 77 10.3 18.2 27.4#

