

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110922\
 Data File : VL039854.D
 Acq On : 9 Nov 2022 18:53
 Operator : SY/AP
 Sample : N5527-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10604-OUTSIDE

Quant Time: Nov 10 03:50:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

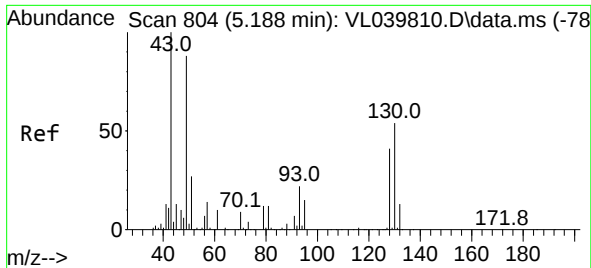
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.176	49	957592	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.629	114	2305049	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.433	117	2069555	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	1709991	11.039	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.738	85	74964	0.464	ppbv	98
3) Chlorodifluoromethane	2.681	51	183807	1.610	ppbv	100
4) Chloromethane	2.819	50	30176	0.425	ppbv #	83
9) Propene	2.706	41	25346	0.426	ppbv #	60
10) Heptane	7.555	43	35478	0.249	ppbv	91
11) Trichlorofluoromethane	3.562	101	27813	0.211	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.057	101	3315	0.035	ppbv #	14
13) Ethanol	3.243	45	226865	53.967	ppbv	93
15) Acetone	3.468	43	371781	3.190	ppbv #	79
16) 1,3-Butadiene	2.973	39	5407	0.100	ppbv #	5
19) Isopropyl Alcohol	3.600	45	11471	0.199	ppbv #	29
20) Methylene Chloride	3.931	84	857421	20.562	ppbv	88
21) Allyl Chloride	3.951	41	3894	0.053	ppbv #	1
23) Vinyl Acetate	4.600	43	48432	1.043	ppbv #	1
25) Ethyl Acetate	5.198	43	681024	2.837	ppbv #	77
26) Hexane	5.201	57	973910	9.098	ppbv #	39
30) Cyclohexane	6.578	84	14252	0.159	ppbv #	70
34) 2-Butanone	4.783	43	38200	0.402	ppbv #	79
35) Carbon Tetrachloride	6.468	117	4558	0.034	ppbv #	59
36) Benzene	6.349	78	52242	0.269	ppbv	96
39) 1,2-Dichloropropane	6.629	63	607026	8.013	ppbv #	27
41) Tetrahydrofuran	5.555	42	4799	0.060	ppbv #	63
44) 2,2,4-Trimethylpentane	7.301	57	347245	1.058	ppbv	94
53) Toluene	9.192	91	314807	1.411	ppbv	99
58) Ethyl Benzene	12.053	91	458657	1.639	ppbv	96
59) m/p-Xylene	12.314	91	1319436	5.649	ppbv	99
60) o-Xylene	13.024	91	299955	1.355	ppbv	98
72) 4-Ethyltoluene	15.159	105	16923	0.068	ppbv #	79
73) 1,3,5-Trimethylbenzene	15.310	105	6746	0.031	ppbv #	55
74) 1,2,4-Trimethylbenzene	16.076	105	35982	0.153	ppbv #	65

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

Quant Time: Nov 10 03:50:48 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
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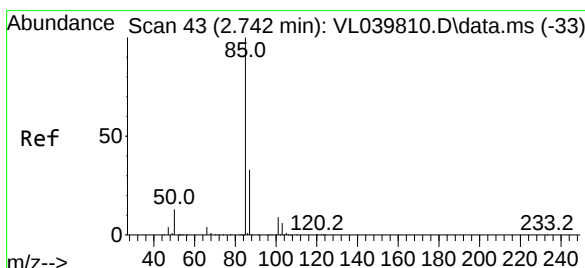
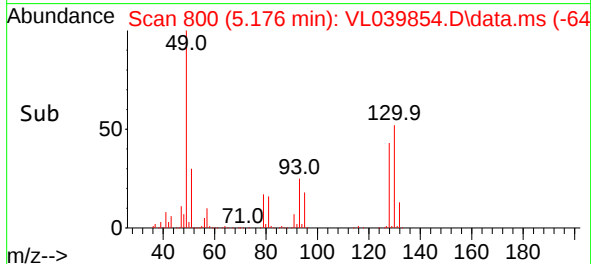
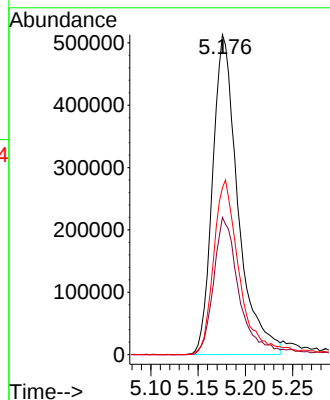
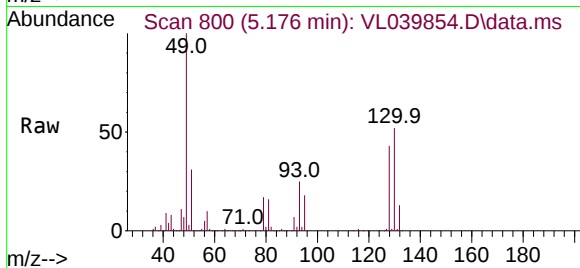




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.012 min
 Lab File: VL039854.D
 Acq: 9 Nov 2022 18:53

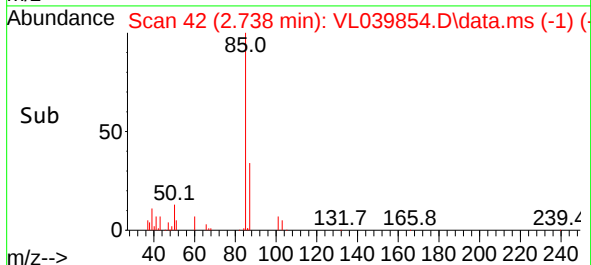
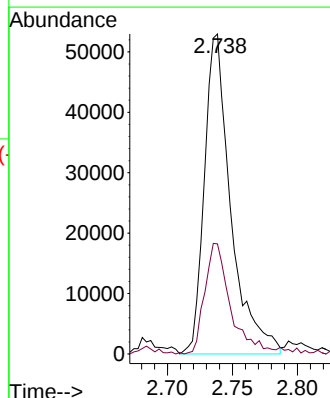
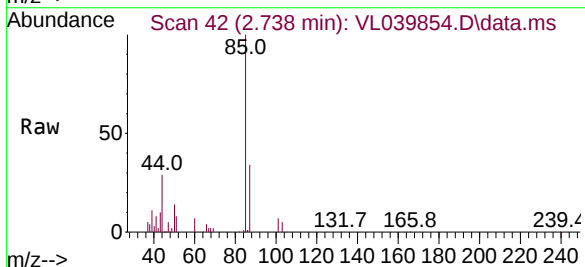
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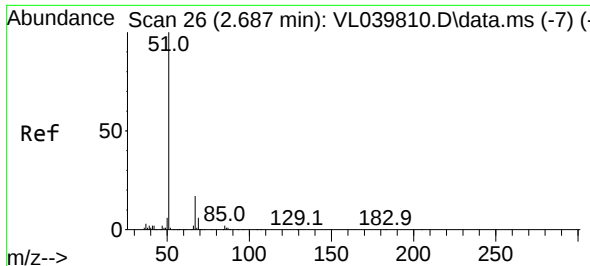
Tgt Ion: 49 Resp: 957592
 Ion Ratio Lower Upper
 49 100
 128 44.7 24.6 73.6
 130 58.4 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.464 ppbv
 RT: 2.738 min Scan# 42
 Delta R.T. -0.003 min
 Lab File: VL039854.D
 Acq: 9 Nov 2022 18:53

Tgt Ion: 85 Resp: 74964
 Ion Ratio Lower Upper
 85 100
 87 34.0 26.4 39.6

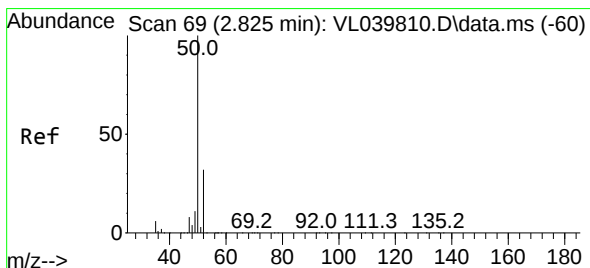
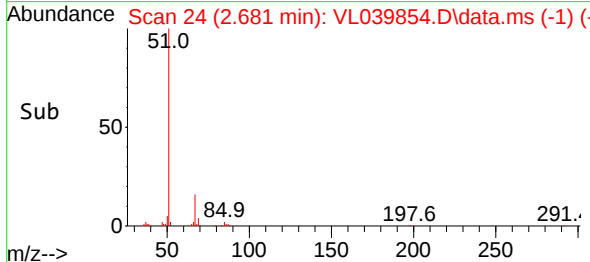
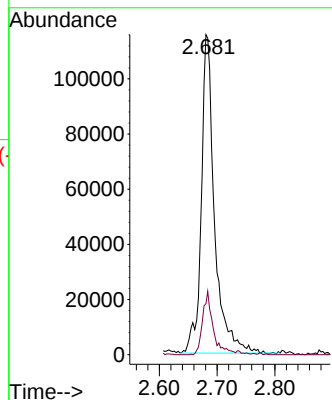
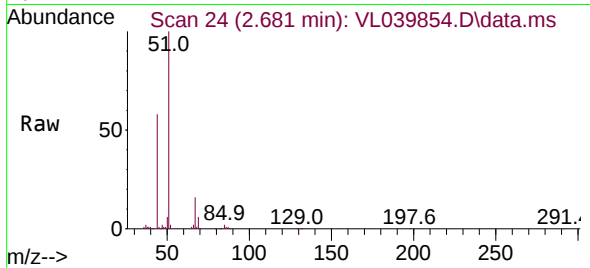




#3
Chlorodifluoromethane
Concen: 1.610 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.006 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

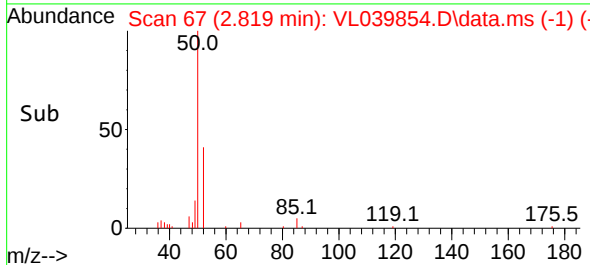
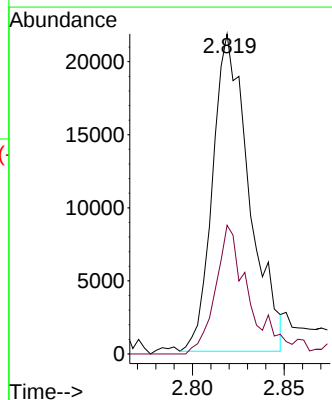
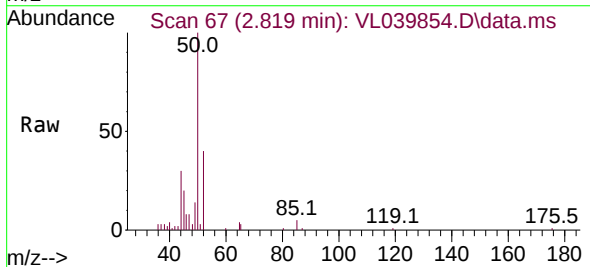
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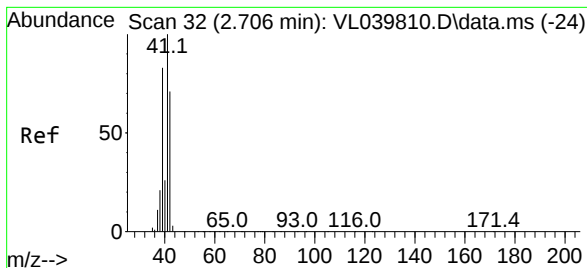
Tgt Ion: 51 Resp: 183807
Ion Ratio Lower Upper
51 100
67 16.7 13.2 19.8



#4
Chloromethane
Concen: 0.425 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.006 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 50 Resp: 30176
Ion Ratio Lower Upper
50 100
52 41.5 25.5 38.3#





#9

Propene

Concen: 0.426 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL039854.D

Acq: 9 Nov 2022 18:53

Instrument :

MSVOA_L

ClientSampleId :

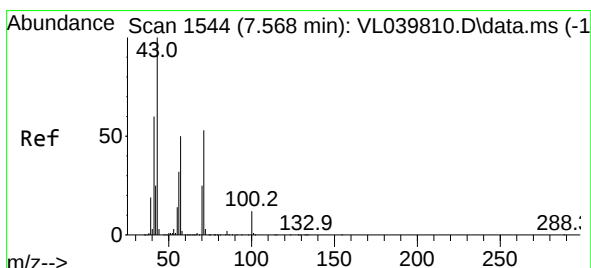
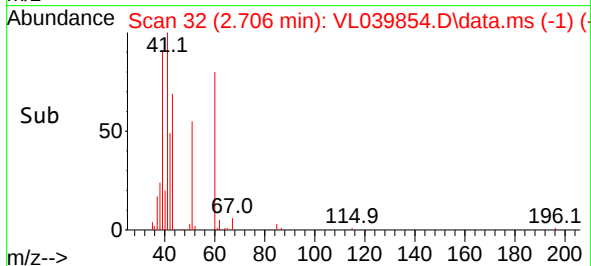
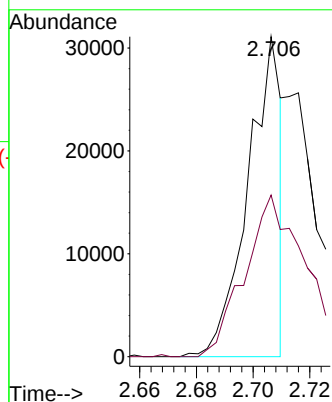
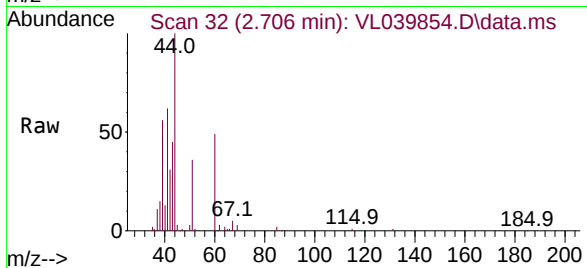
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Tgt Ion: 41 Resp: 25346

Ion Ratio Lower Upper

41 100

42 103.7 56.3 84.5#



#10

Heptane

Concen: 0.249 ppbv

RT: 7.555 min Scan# 1540

Delta R.T. -0.013 min

Lab File: VL039854.D

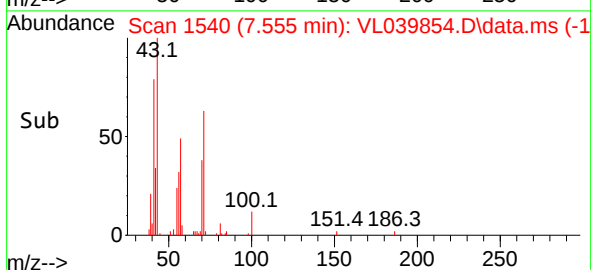
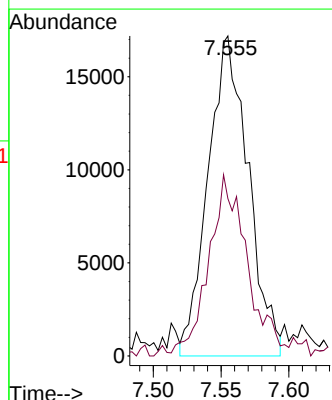
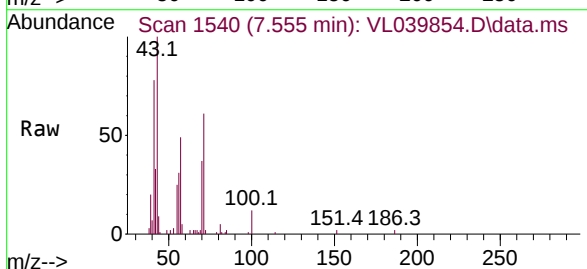
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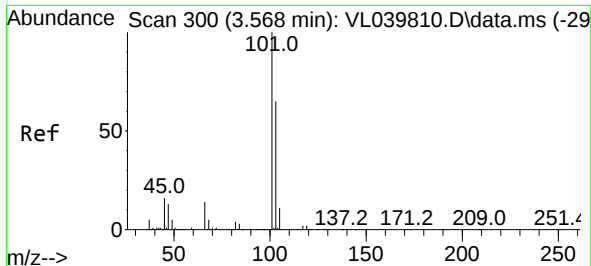
Tgt Ion: 43 Resp: 35478

Ion Ratio Lower Upper

43 100

57 56.8 40.5 60.7

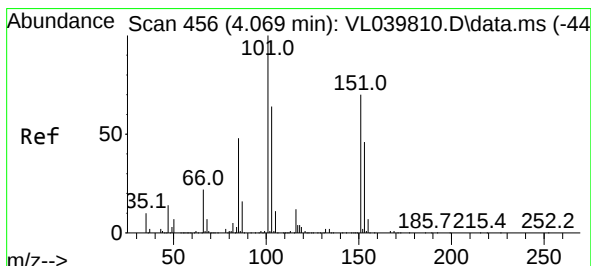
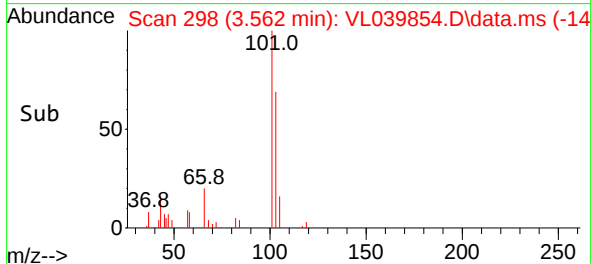
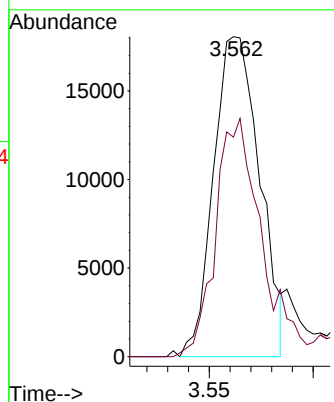
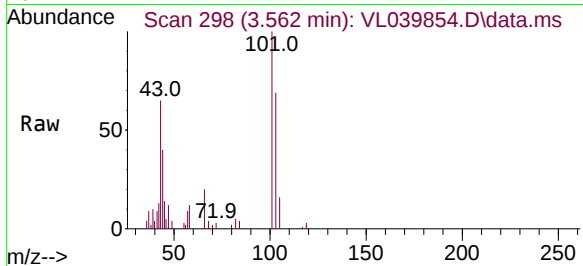




#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 3.562 min Scan# 298
 Delta R.T. -0.006 min
 Lab File: VL039854.D
 Acq: 9 Nov 2022 18:53

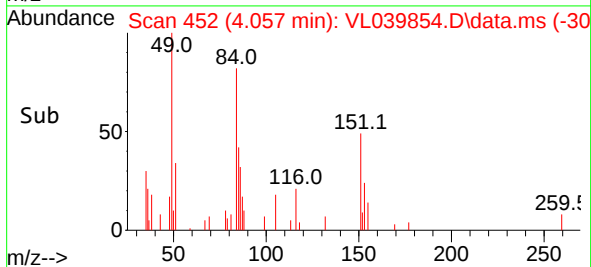
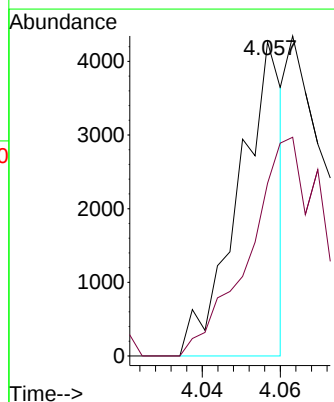
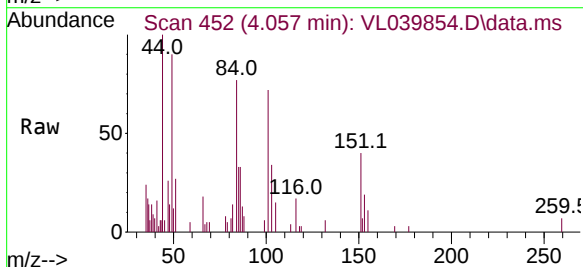
Instrument :
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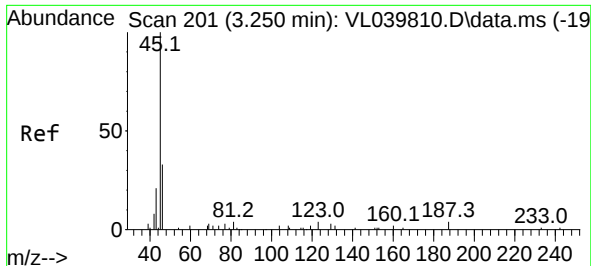
Tgt Ion:101 Resp: 27813
 Ion Ratio Lower Upper
 101 100
 103 67.4 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. -0.013 min
 Lab File: VL039854.D
 Acq: 9 Nov 2022 18:53

Tgt Ion:101 Resp: 3315
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.2 85.8#

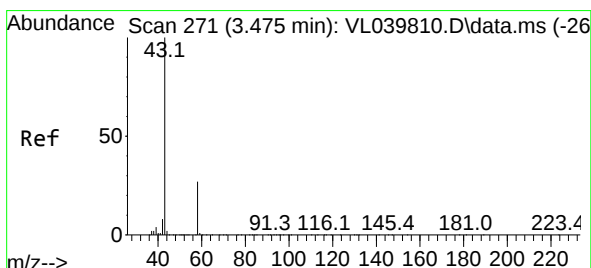
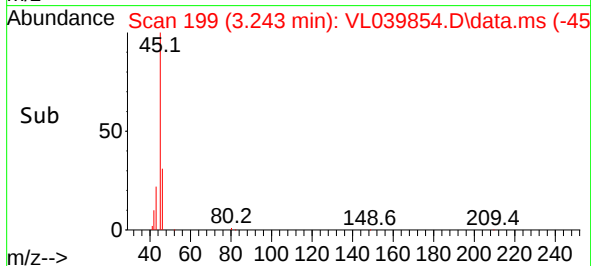
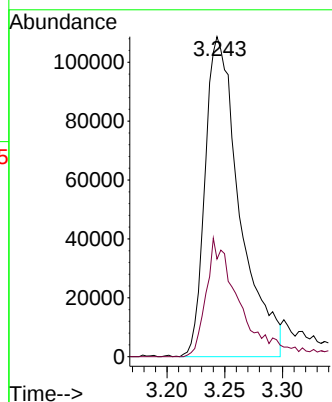
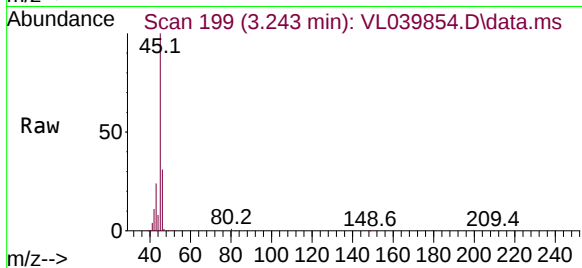




#13
Ethanol
Concen: 53.967 ppbv
RT: 3.243 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

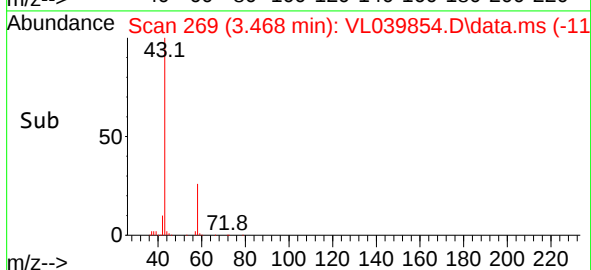
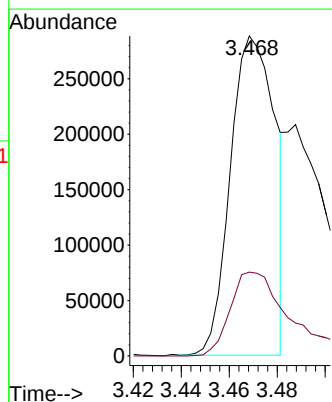
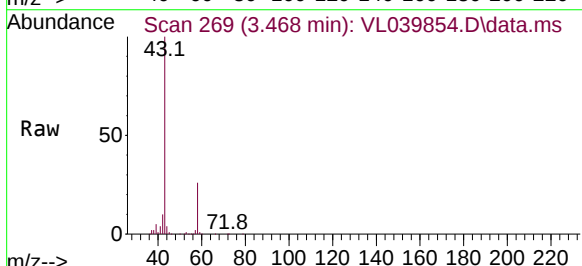
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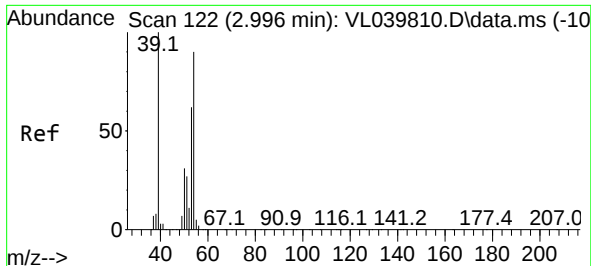
Tgt Ion: 45 Resp: 226865
Ion Ratio Lower Upper
45 100
46 36.8 16.5 65.9



#15
Acetone
Concen: 3.190 ppbv
RT: 3.468 min Scan# 269
Delta R.T. -0.006 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 43 Resp: 371781
Ion Ratio Lower Upper
43 100
58 40.4 23.2 34.8#

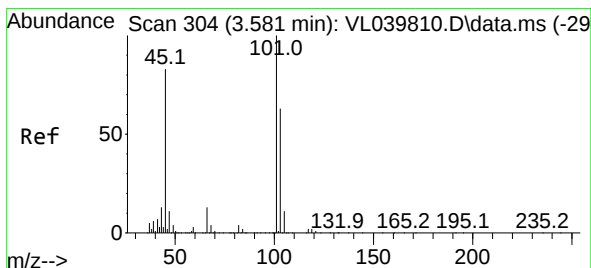
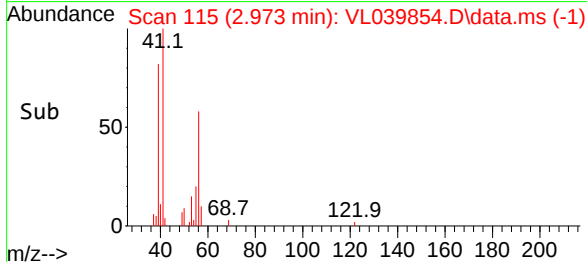
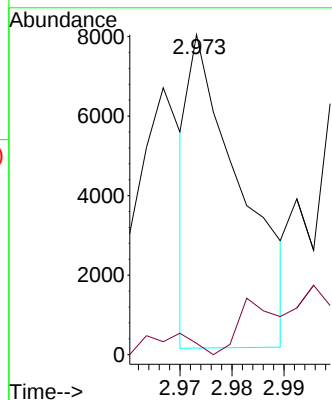
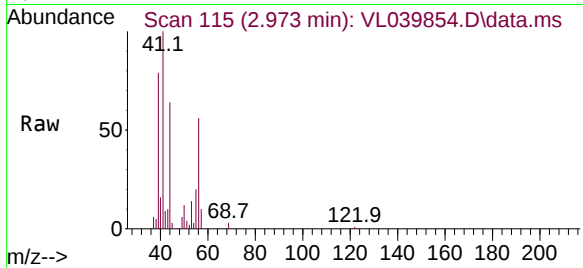




#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 2.973 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

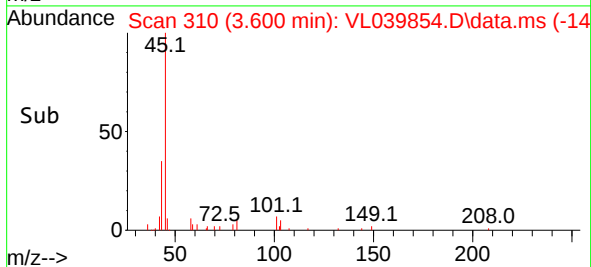
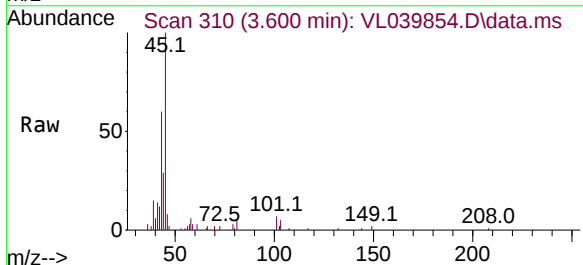
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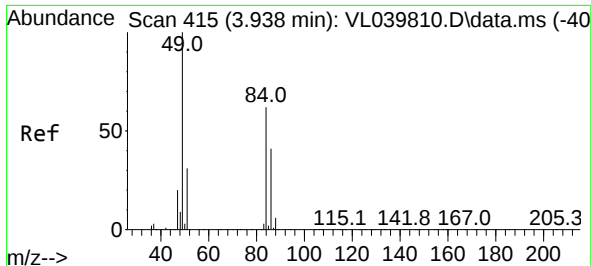
Tgt Ion: 39 Resp: 5407
Ion Ratio Lower Upper
39 100
54 0.0 71.0 106.4#



#19
Isopropyl Alcohol
Concen: 0.199 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.019 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 45 Resp: 11471
Ion Ratio Lower Upper
45 100
58 0.0 38.3 57.5#

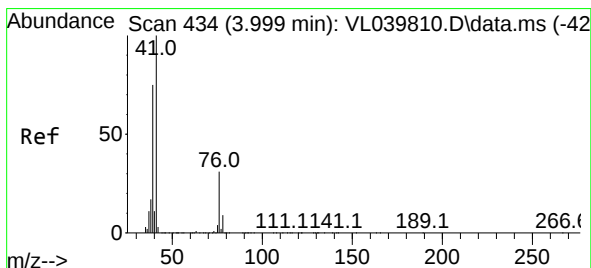
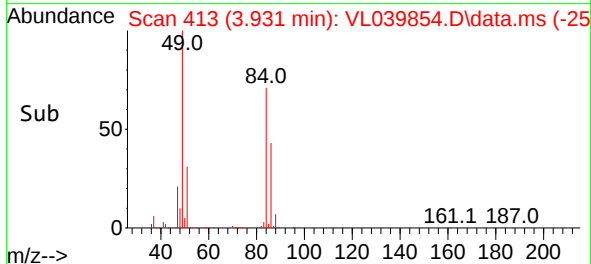
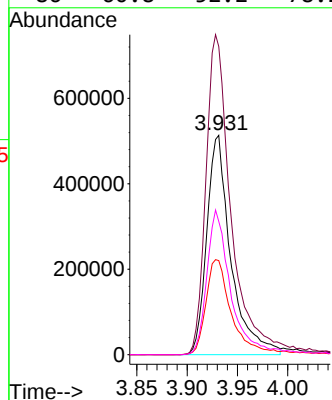
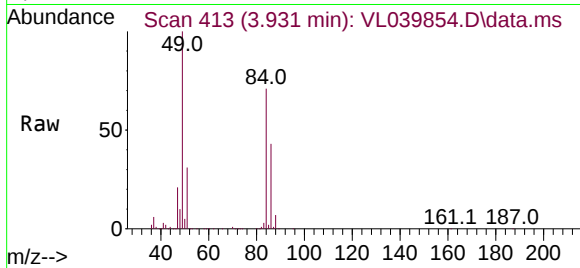




#20
Methylene Chloride
Concen: 20.562 ppbv
RT: 3.931 min Scan# 415
Delta R.T. -0.006 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

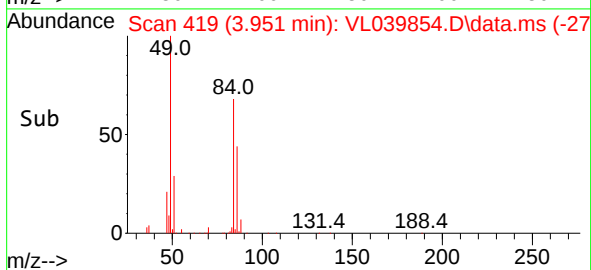
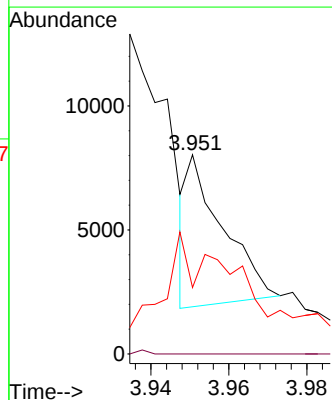
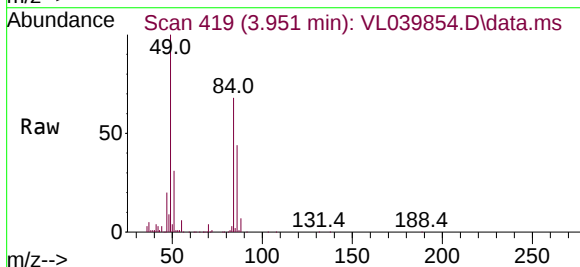
Instrument :
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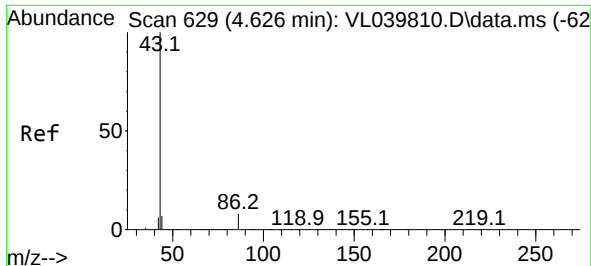
Tgt Ion: 84 Resp: 857421
Ion Ratio Lower Upper
84 100
49 140.4 128.6 192.8
51 42.9 40.2 60.4
86 60.8 52.2 78.2



#21
Allyl Chloride
Concen: 0.053 ppbv
RT: 3.951 min Scan# 419
Delta R.T. -0.048 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 41 Resp: 3894
Ion Ratio Lower Upper
41 100
76 0.0 24.1 36.1#
39 249.1 64.3 96.5#

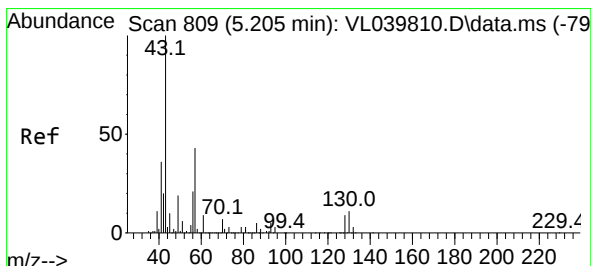
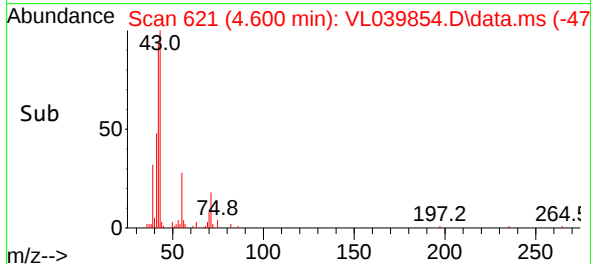
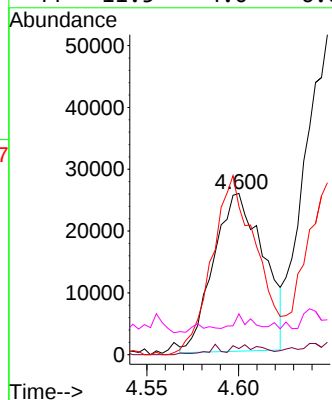
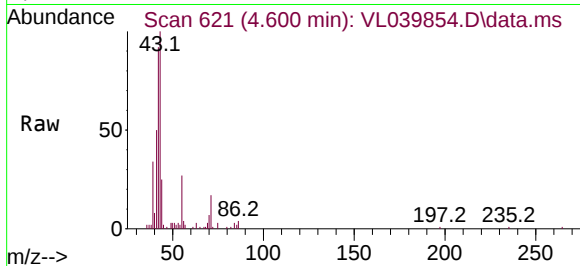




#23
 Vinyl Acetate
 Concen: 1.043 ppbv
 RT: 4.600 min Scan# 61
 Delta R.T. -0.026 min
 Lab File: VL039854.D
 Acq: 9 Nov 2022 18:53

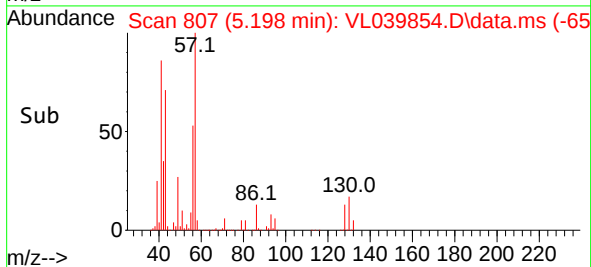
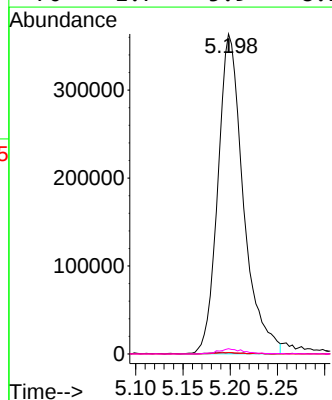
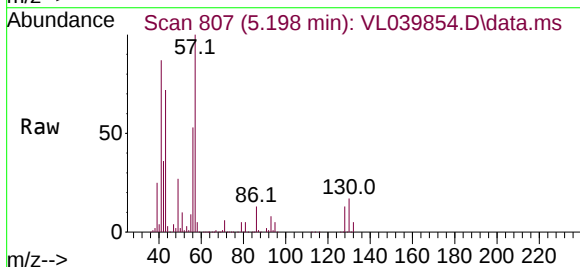
Instrument :
 MSVOA_1
 ClientSampleId :
 10604-OUTSIDE

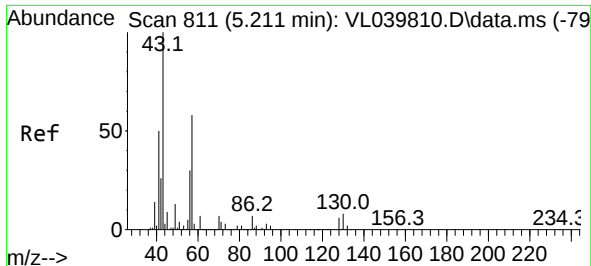
Tgt Ion: 43	Resp: 48432
Ion Ratio	Lower Upper
43 100	
86 2.9	5.0 7.4#
42 93.3	6.8 10.2#
44 11.5	4.0 6.0#



#25
 Ethyl Acetate
 Concen: 2.837 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.006 min
 Lab File: VL039854.D
 Acq: 9 Nov 2022 18:53

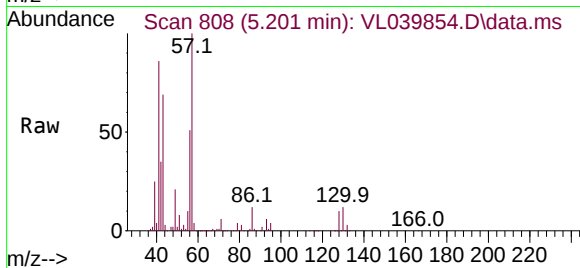
Tgt	Ion: 43	Resp:	681024
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.2	12.2#
61	0.5	8.1	12.1#
70	1.7	5.9	8.9#



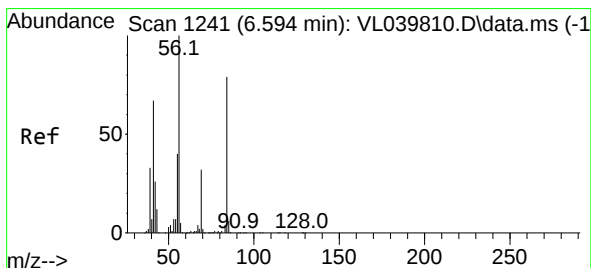
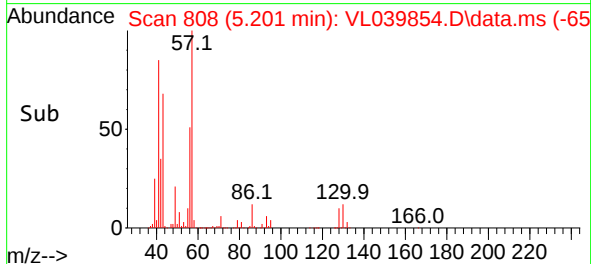
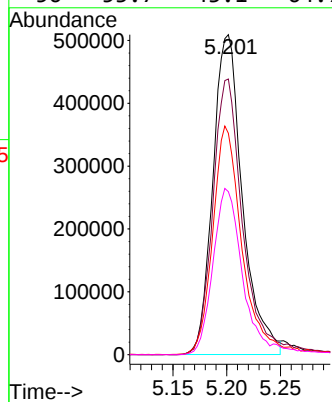


#26
Hexane
Concen: 9.098 ppbv
RT: 5.201 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Instrument :
MSVOA_L
ClientSampleId :
10604-OUTSIDE

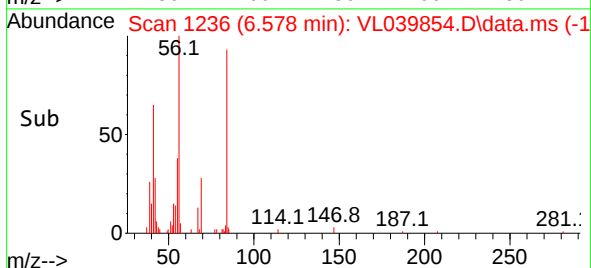
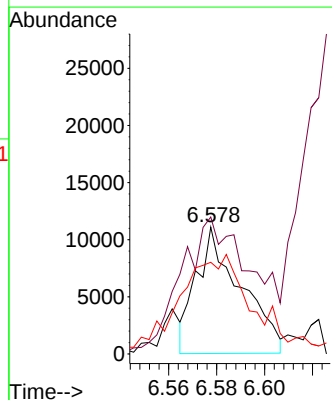
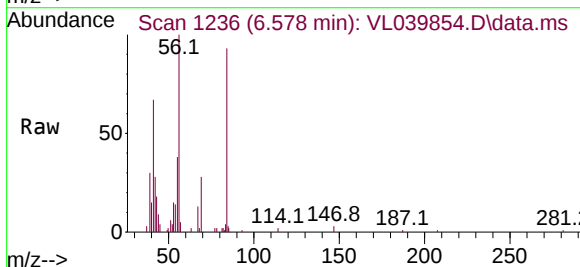


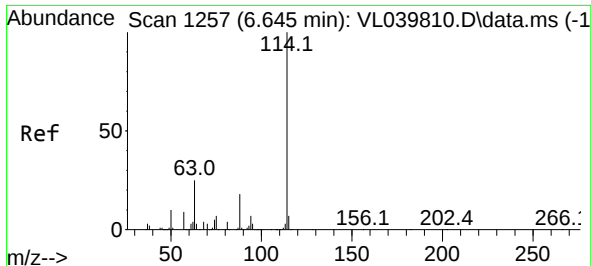
Tgt Ion: 57 Resp: 973910
Ion Ratio Lower Upper
57 100
41 89.9 73.7 110.5
43 72.4 189.8 284.8#
56 53.7 43.1 64.7



#30
Cyclohexane
Concen: 0.159 ppbv
RT: 6.578 min Scan# 1236
Delta R.T. -0.016 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 84 Resp: 14252
Ion Ratio Lower Upper
84 100
56 160.1 114.8 172.2
41 139.0 68.6 103.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL039854.D

Acq: 9 Nov 2022 18:53

Instrument :

MSVOA_L

ClientSampleId :

10604-OUTSIDE

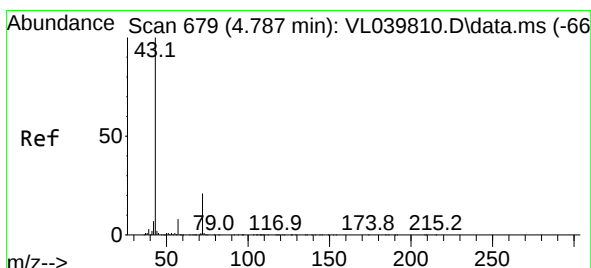
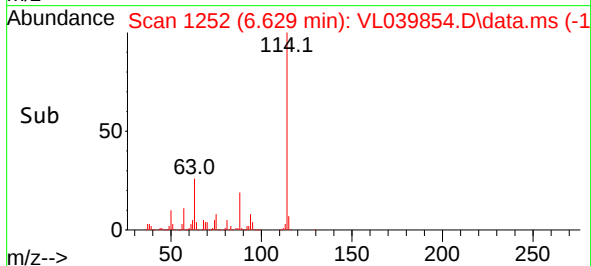
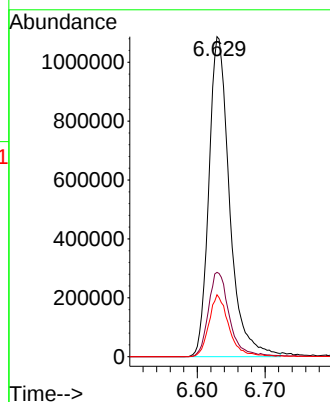
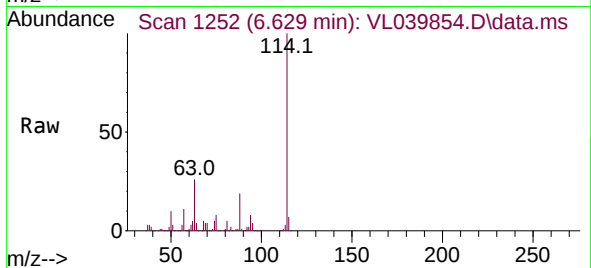
Tgt Ion:114 Resp: 2305049

Ion Ratio Lower Upper

114 100

63 27.1 19.8 29.6

88 18.8 14.4 21.6



#34

2-Butanone

Concen: 0.402 ppbv

RT: 4.783 min Scan# 678

Delta R.T. -0.003 min

Lab File: VL039854.D

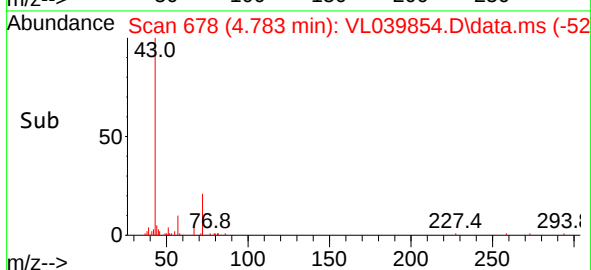
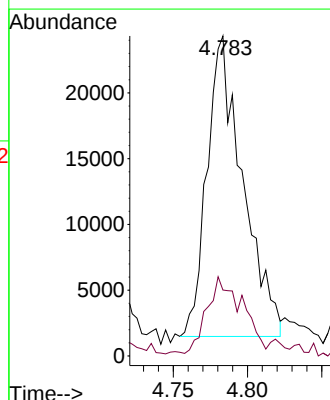
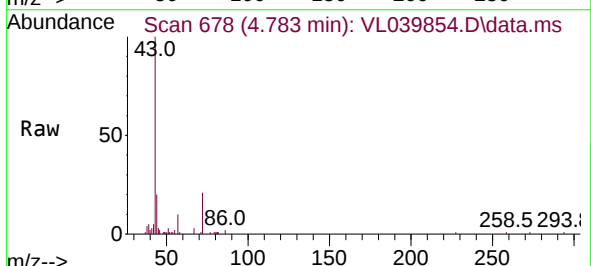
Acq: 9 Nov 2022 18:53

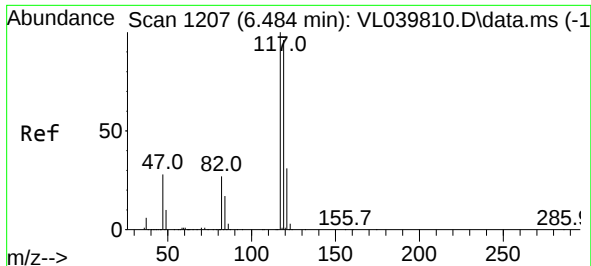
Tgt Ion: 43 Resp: 38200

Ion Ratio Lower Upper

43 100

72 31.8 17.5 26.3#

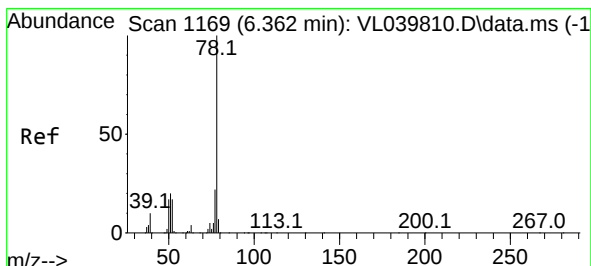
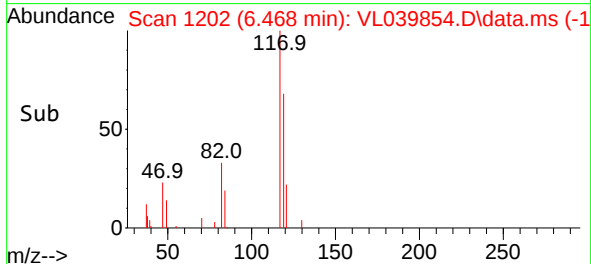
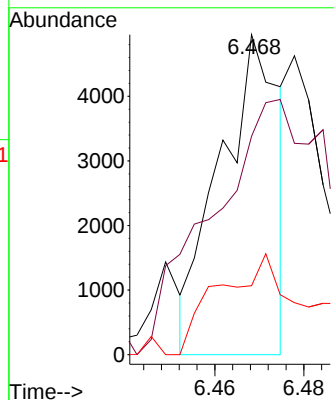
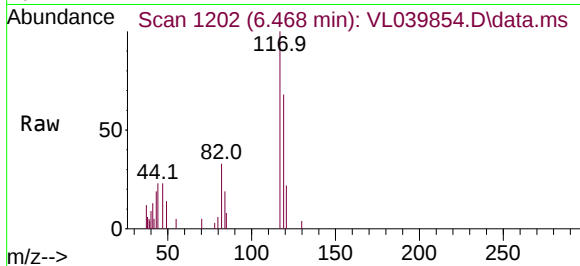




#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 6.468 min Scan# 1165
Delta R.T. -0.016 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

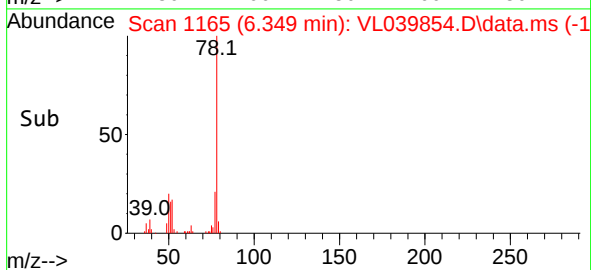
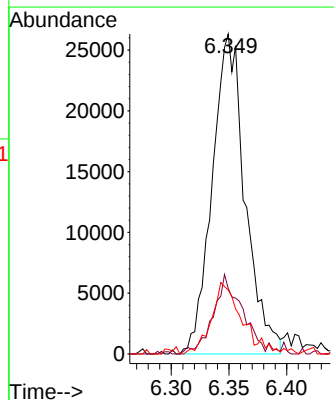
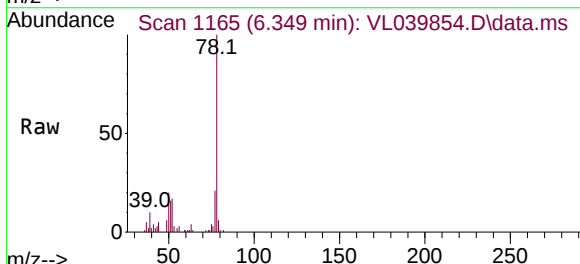
Instrument :
MSVOA_L
ClientSampleId :
10604-OUTSIDE

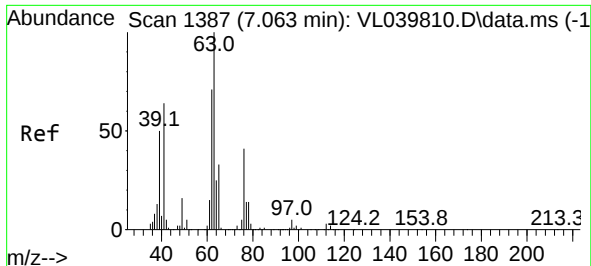
Tgt Ion:117 Resp: 4558
Ion Ratio Lower Upper
117 100
119 45.3 76.5 114.7#
121 26.5 25.2 37.8



#36
Benzene
Concen: 0.269 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. -0.013 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 78 Resp: 52242
Ion Ratio Lower Upper
78 100
77 20.5 17.4 26.2
50 20.0 13.9 20.9





#39

1,2-Dichloropropane

Concen: 8.013 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.434 min

Lab File: VL039854.D

Acq: 9 Nov 2022 18:53

Instrument :

MSVOA_L

ClientSampleId :

10604-OUTSIDE

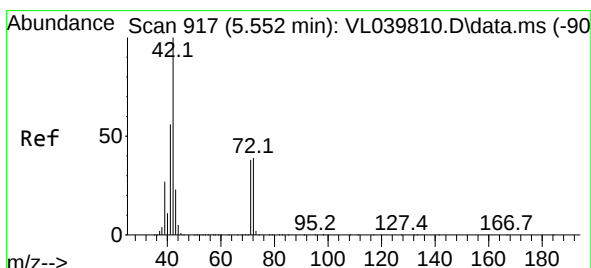
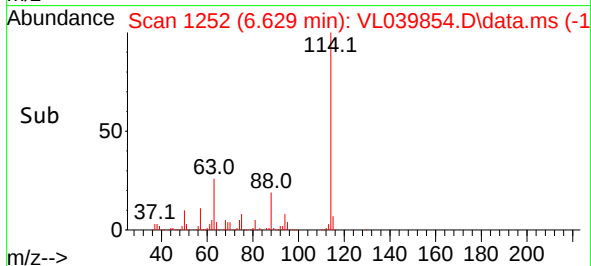
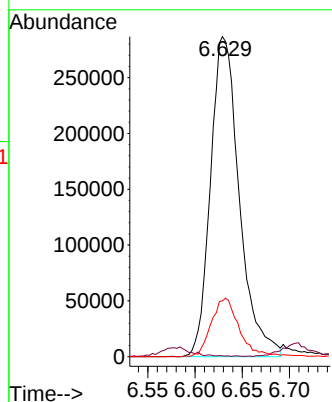
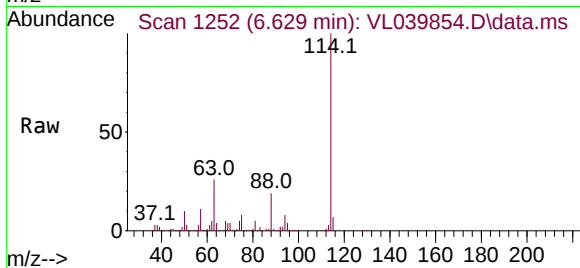
Tgt Ion: 63 Resp: 607026

Ion Ratio Lower Upper

63 100

41 0.0 51.0 76.4#

62 17.4 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.060 ppbv

RT: 5.555 min Scan# 918

Delta R.T. 0.003 min

Lab File: VL039854.D

Acq: 9 Nov 2022 18:53

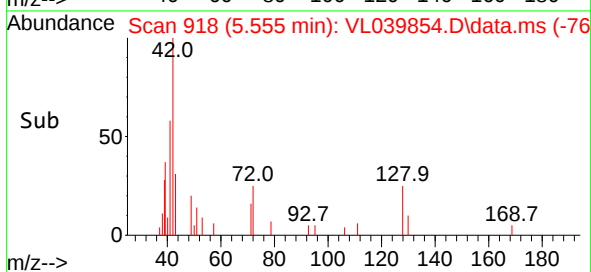
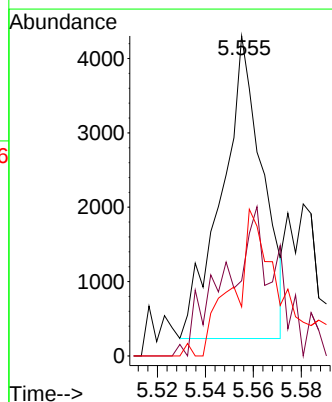
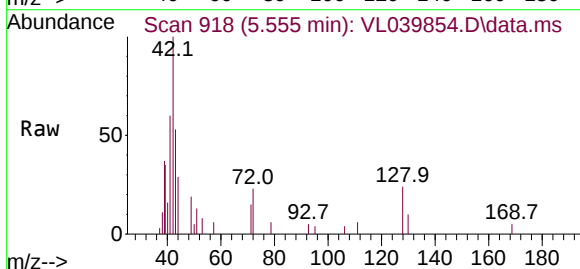
Tgt Ion: 42 Resp: 4799

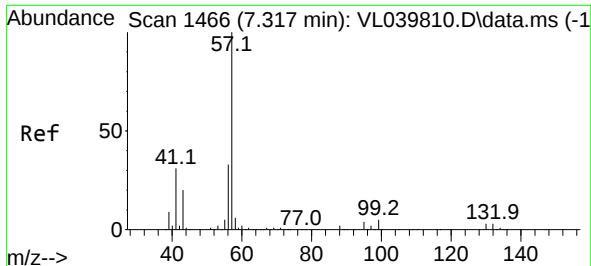
Ion Ratio Lower Upper

42 100

72 63.5 31.4 47.2#

71 60.4 31.5 47.3#





#44

2,2,4-Trimethylpentane

Concen: 1.058 ppbv

RT: 7.301 min Scan# 1466

Delta R.T. -0.016 min

Lab File: VL039854.D

Acq: 9 Nov 2022 18:53

Instrument :

MSVOA_L

ClientSampleId :

10604-OUTSIDE

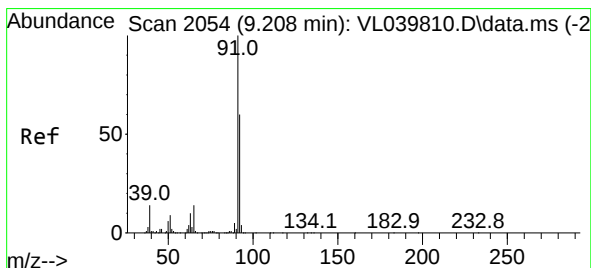
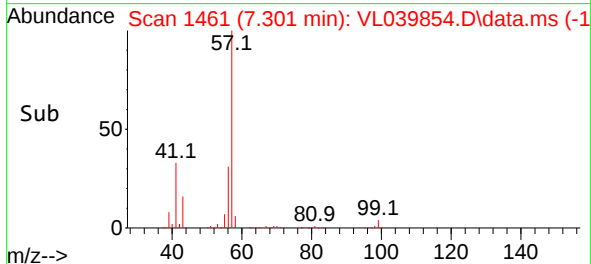
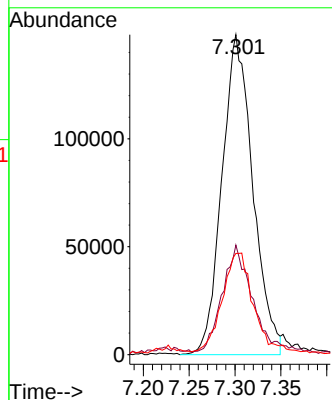
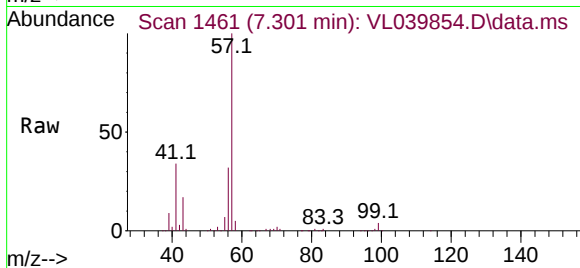
Tgt Ion: 57 Resp: 347245

Ion Ratio Lower Upper

57 100

41 35.1 24.6 36.8

56 34.0 25.4 38.0



#53

Toluene

Concen: 1.411 ppbv

RT: 9.192 min Scan# 2049

Delta R.T. -0.016 min

Lab File: VL039854.D

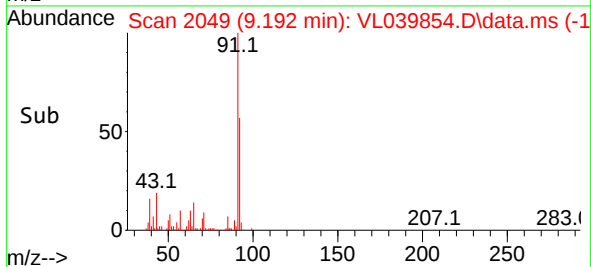
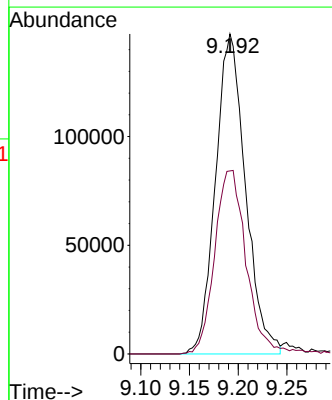
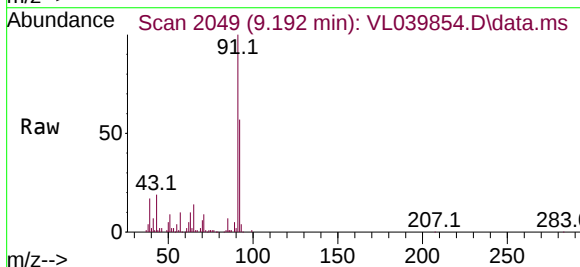
Acq: 9 Nov 2022 18:53

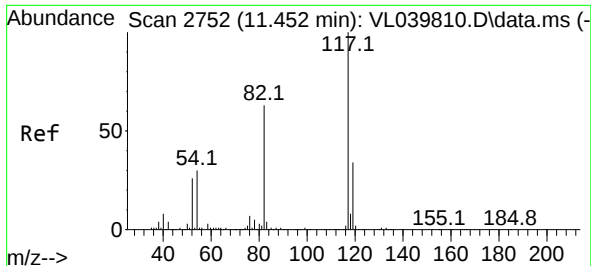
Tgt Ion: 91 Resp: 314807

Ion Ratio Lower Upper

91 100

92 60.9 49.6 74.4

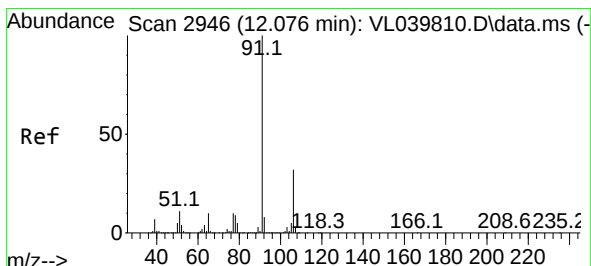
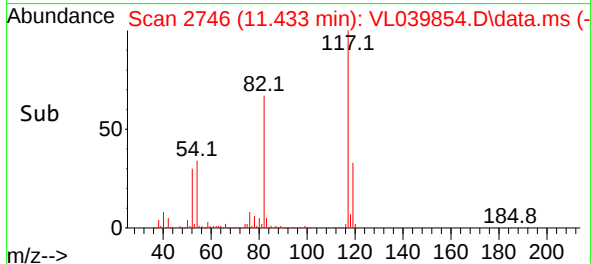
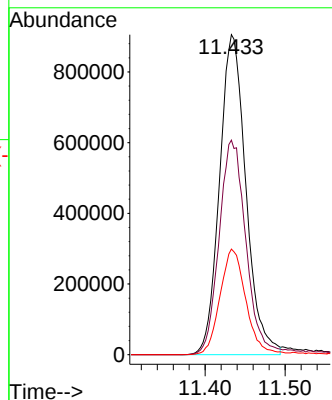
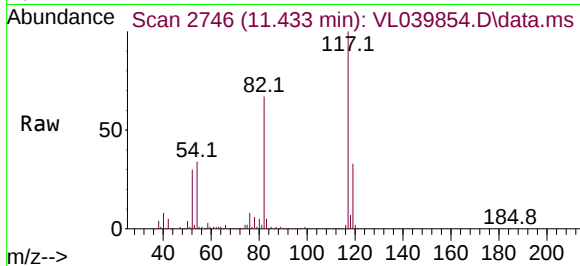




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

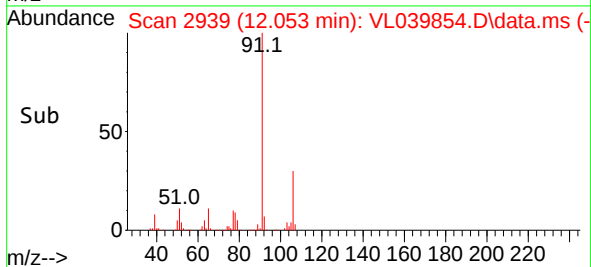
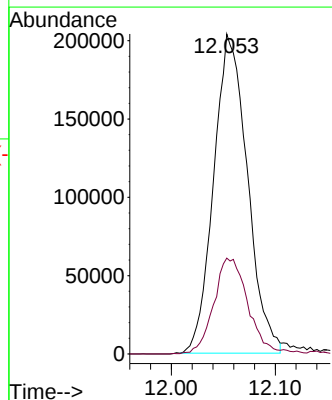
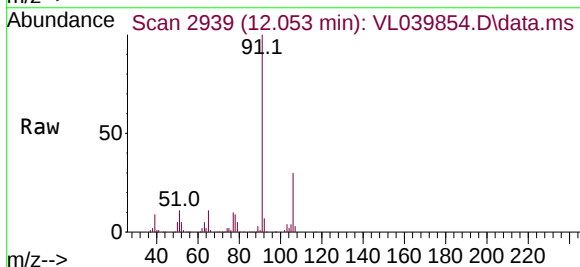
Instrument :
MSVOA_L
ClientSampleId :
10604-OUTSIDE

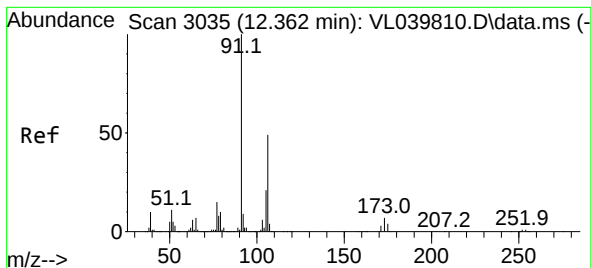
Tgt Ion:117 Resp: 2069555
Ion Ratio Lower Upper
117 100
82 70.3 51.0 76.6
119 33.5 24.7 37.1



#58
Ethyl Benzene
Concen: 1.639 ppbv
RT: 12.053 min Scan# 2939
Delta R.T. -0.022 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 91 Resp: 458657
Ion Ratio Lower Upper
91 100
106 29.9 25.9 38.9





#59

m/p-Xylene

Concen: 5.649 ppbv

RT: 12.314 min Scan# 3035

Delta R.T. -0.048 min

Lab File: VL039854.D

Acq: 9 Nov 2022 18:53

Instrument :

MSVOA_L

ClientSampleId :

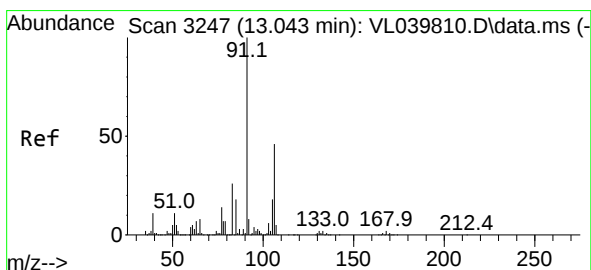
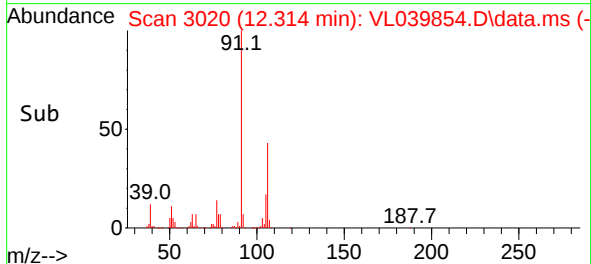
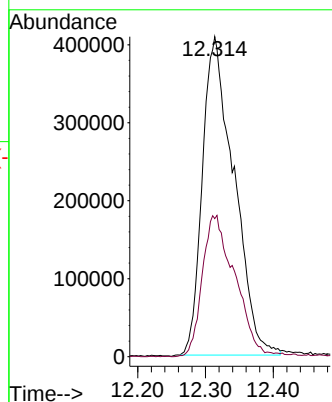
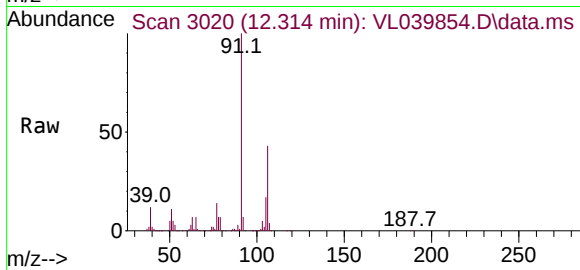
10604-OUTSIDE

Tgt Ion: 91 Resp: 1319436

Ion Ratio Lower Upper

91 100

106 46.5 37.6 56.4



#60

o-Xylene

Concen: 1.355 ppbv

RT: 13.024 min Scan# 3241

Delta R.T. -0.019 min

Lab File: VL039854.D

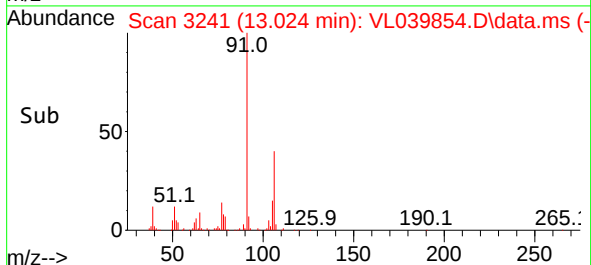
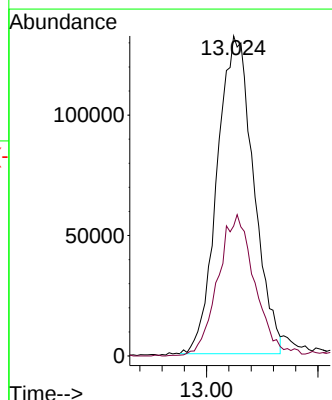
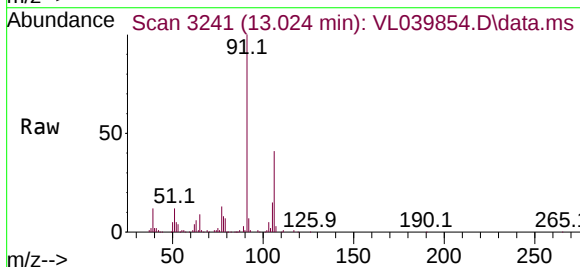
Acq: 9 Nov 2022 18:53

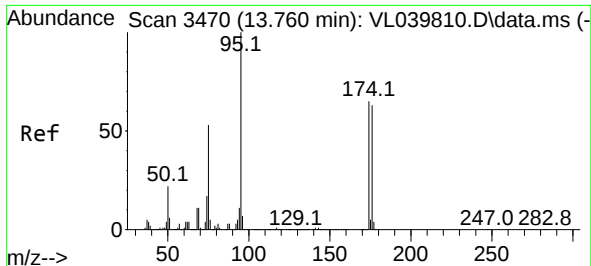
Tgt Ion: 91 Resp: 299955

Ion Ratio Lower Upper

91 100

106 45.6 23.6 70.8

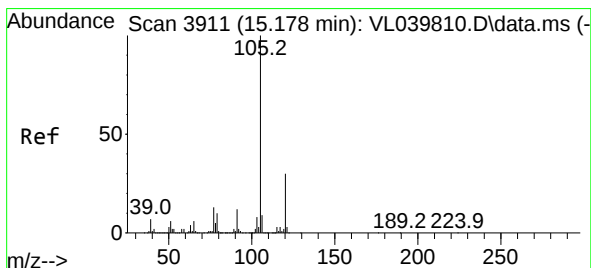
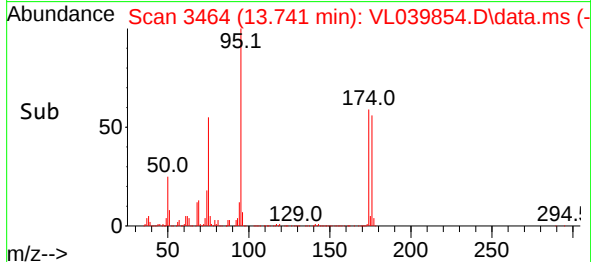
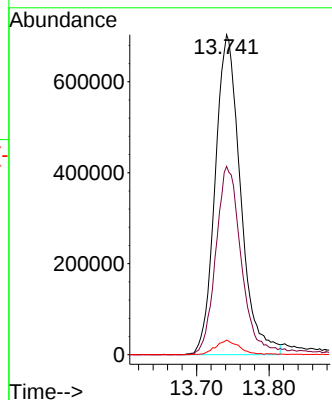
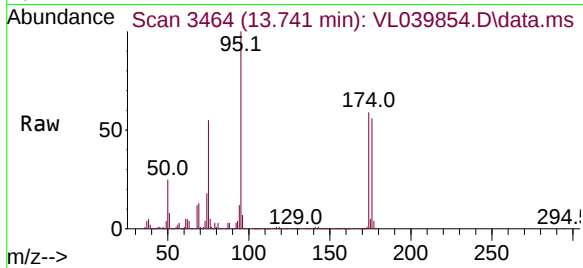




#68
1-Bromo-4-Fluorobenzene
Concen: 11.039 ppbv
RT: 13.741 min Scan# 3470
Delta R.T. -0.019 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

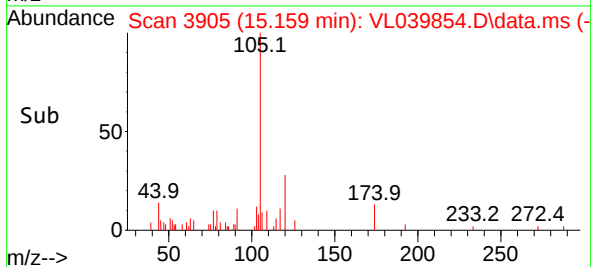
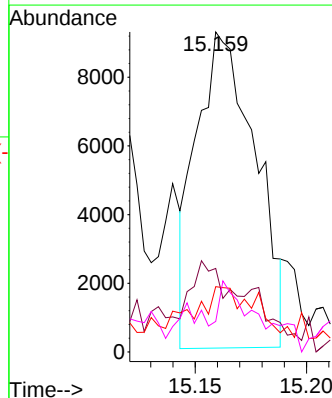
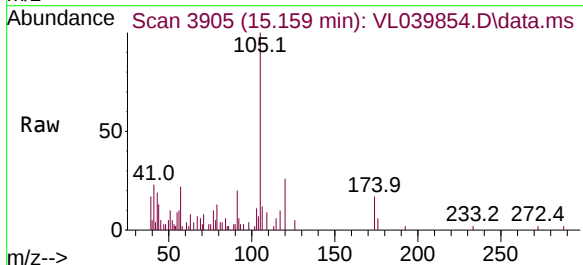
Instrument :
MSVOA_L
ClientSampleId :
10604-OUTSIDE

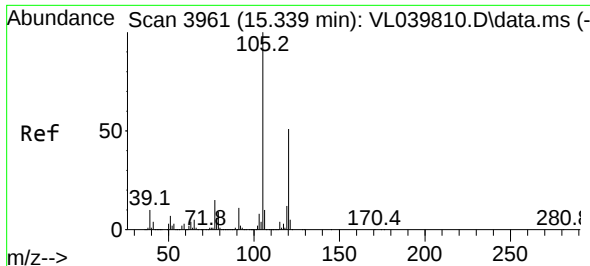
Tgt Ion: 95 Resp: 1709991
Ion Ratio Lower Upper
95 100
174 61.6 53.4 80.0
175 4.4 4.1 6.1



#72
4-Ethyltoluene
Concen: 0.068 ppbv
RT: 15.159 min Scan# 3905
Delta R.T. -0.019 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion: 105 Resp: 16923
Ion Ratio Lower Upper
105 100
120 37.1 26.0 39.0
91 31.7 10.5 15.7#
77 24.9 11.2 16.8#

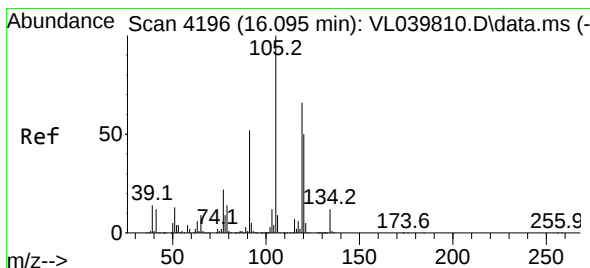
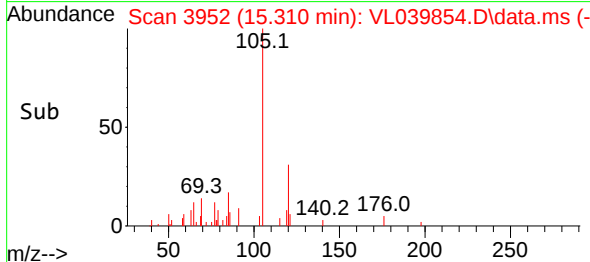
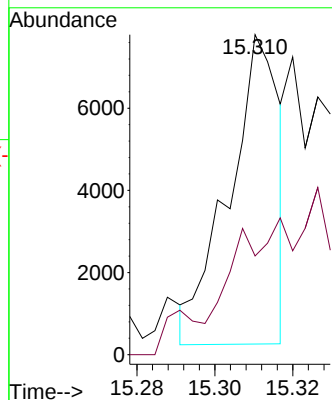
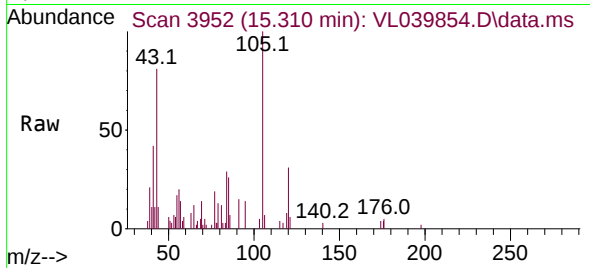




#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 15.310 min Scan# 3961
Delta R.T. -0.029 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Instrument :
MSVOA_L
ClientSampleId :
10604-OUTSIDE

Tgt Ion:105 Resp: 6746
Ion Ratio Lower Upper
105 100
120 20.0 41.0 61.4#



#74
1,2,4-Trimethylbenzene
Concen: 0.153 ppbv
RT: 16.076 min Scan# 4190
Delta R.T. -0.019 min
Lab File: VL039854.D
Acq: 9 Nov 2022 18:53

Tgt Ion:105 Resp: 35982
Ion Ratio Lower Upper
105 100
120 39.8 40.2 60.4#
91 9.3 42.6 64.0#
77 14.6 17.8 26.8#

