

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040716.D
 Acq On : 19 Sep 2023 2:25
 Operator : SY/MD
 Sample : 04495-02DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENTDL

Quant Time: Sep 19 05:25:59 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)

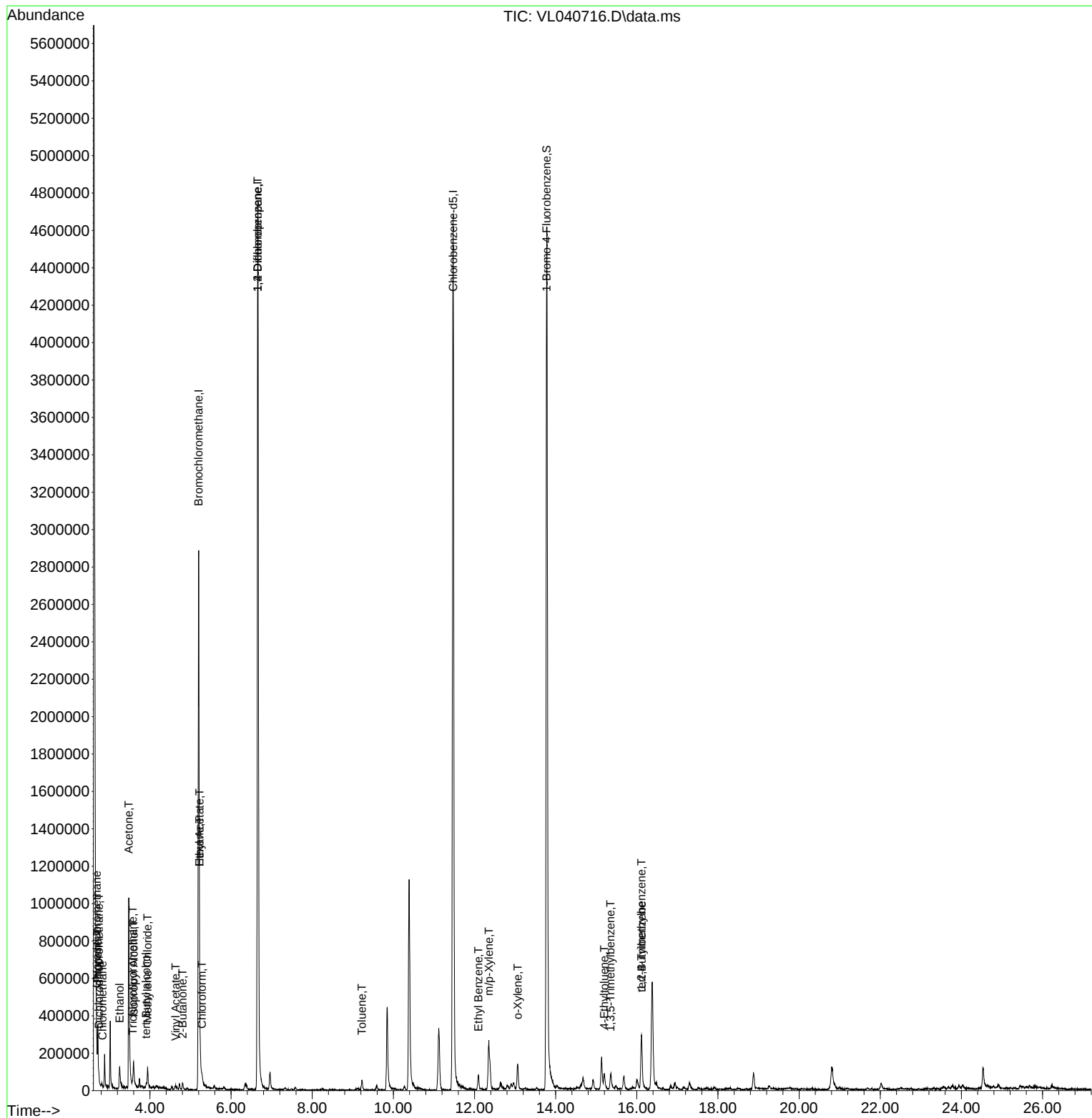
Internal Standards						
1) Bromochloromethane	5.202	49	1350744	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3830617	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	3256803	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2399912	9.538	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	23025	0.077	ppbv #	83
3) Chlorodifluoromethane	2.687	51	56520	0.257	ppbv #	90
4) Chloromethane	2.829	50	8992	0.107	ppbv	91
9) Propene	2.713	41	49714	0.784	ppbv #	59
11) Trichlorofluoromethane	3.575	101	10731	0.041	ppbv	89
13) Ethanol	3.253	45	140913	7.510	ppbv	91
15) Acetone	3.478	43	1039121	5.832	ppbv	96
17) tert-Butyl alcohol	3.909	59	8767	0.048	ppbv #	51
19) Isopropyl Alcohol	3.597	45	148002	1.379	ppbv #	88
20) Methylene Chloride	3.941	84	30416	0.317	ppbv	95
23) Vinyl Acetate	4.632	43	9343	0.051	ppbv #	73
25) Ethyl Acetate	5.221	43	27891	0.097	ppbv #	90
26) Hexane	5.221	57	52659	0.388	ppbv #	49
29) Chloroform	5.279	83	10651	0.045	ppbv	87
34) 2-Butanone	4.803	43	19130	0.099	ppbv #	52
39) 1,2-Dichloropropane	6.658	63	911470	8.348	ppbv #	23
53) Toluene	9.224	91	13107	0.044	ppbv #	20
58) Ethyl Benzene	12.098	91	63050	0.170	ppbv	98
59) m/p-Xylene	12.352	91	277487	0.796	ppbv	96
60) o-Xylene	13.063	91	104350	0.314	ppbv	94
65) tert-Butylbenzene	16.121	119	28089	0.062	ppbv #	68
72) 4-Ethyltoluene	15.198	105	42901	0.115	ppbv #	70
73) 1,3,5-Trimethylbenzene	15.349	105	22575	0.067	ppbv	90
74) 1,2,4-Trimethylbenzene	16.114	105	242377	0.592	ppbv #	63

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

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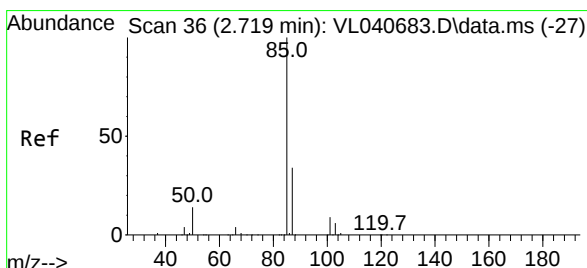
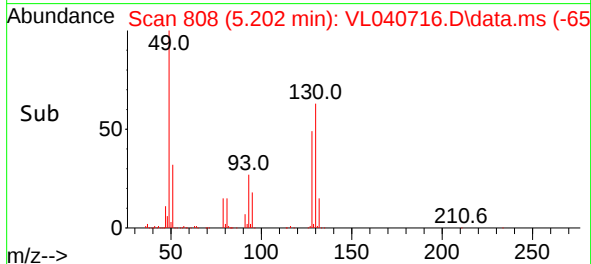
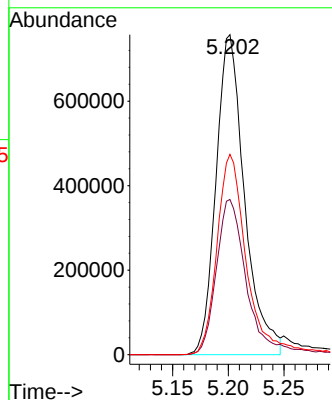
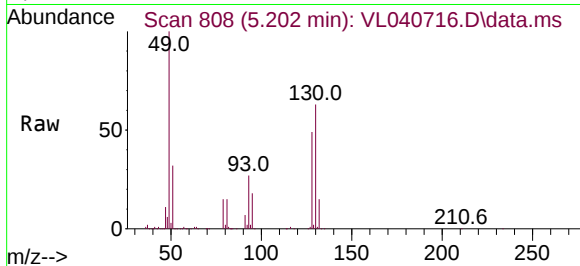




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.202 min Scan# 80
 Delta R.T. 0.004 min
 Lab File: VL040716.D
 Acq: 19 Sep 2023 2:25

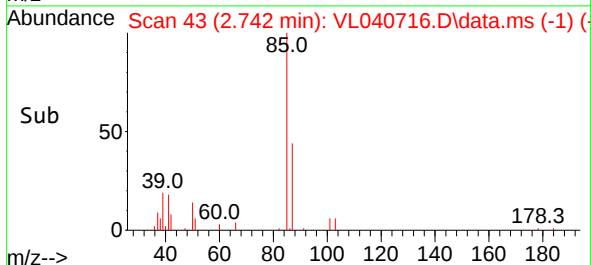
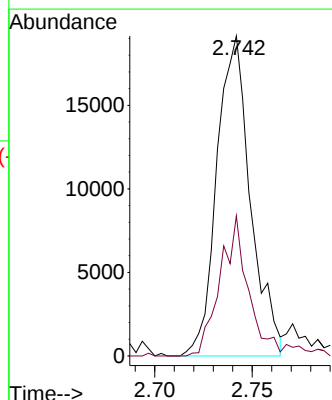
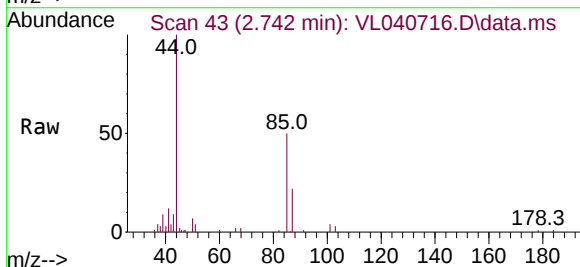
Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENTDL

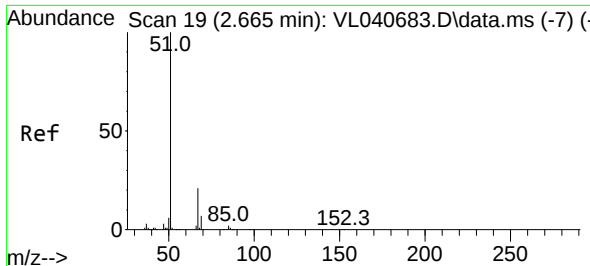
Tgt Ion: 49 Resp: 1350744
 Ion Ratio Lower Upper
 49 100
 128 52.9 25.4 76.0
 130 66.9 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.077 ppbv
 RT: 2.742 min Scan# 43
 Delta R.T. 0.010 min
 Lab File: VL040716.D
 Acq: 19 Sep 2023 2:25

Tgt Ion: 85 Resp: 23025
 Ion Ratio Lower Upper
 85 100
 87 43.8 27.2 40.8#

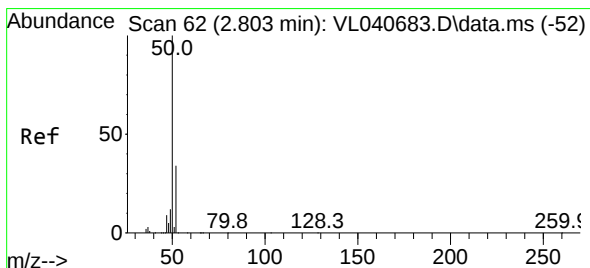
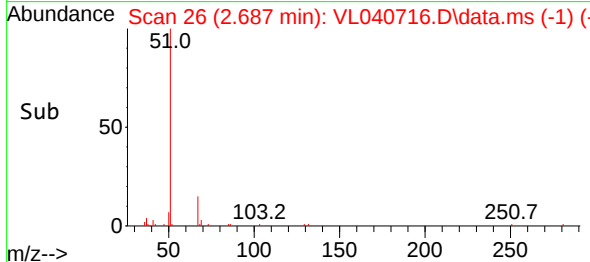
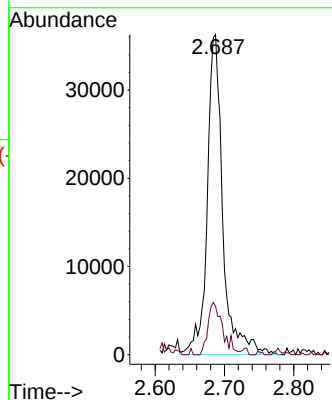
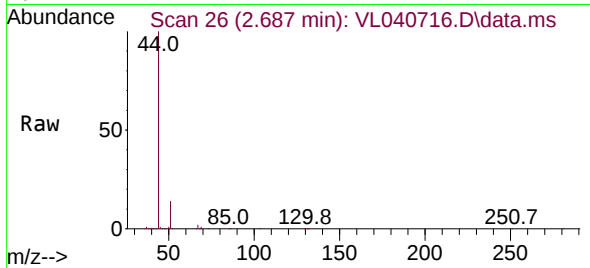




#3
Chlorodifluoromethane
Concen: 0.257 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

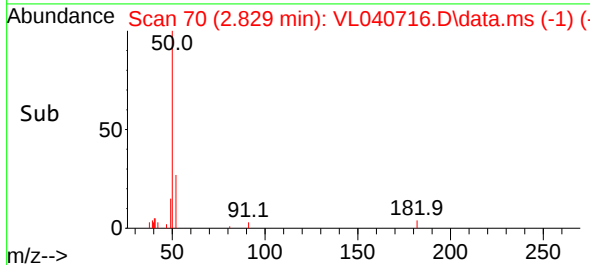
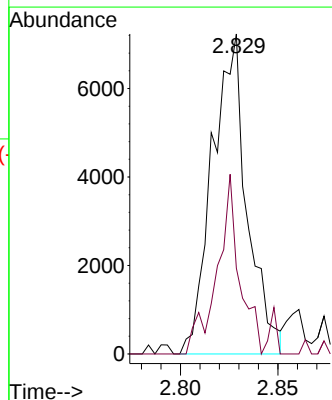
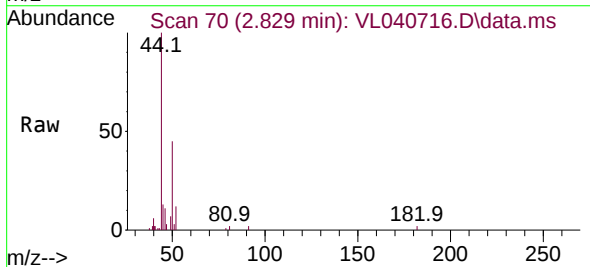
Instrument :
MSVOA_L
ClientSampleId :
AMBIENTDL

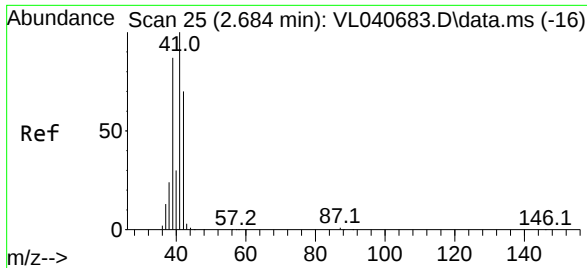
Tgt Ion: 51 Resp: 56520
Ion Ratio Lower Upper
51 100
67 16.4 16.7 25.1#



#4
Chloromethane
Concen: 0.107 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Tgt Ion: 50 Resp: 8992
Ion Ratio Lower Upper
50 100
52 28.9 27.1 40.7





#9

Propene

Concen: 0.784 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.016 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Instrument :

MSVOA_L

ClientSampleId :

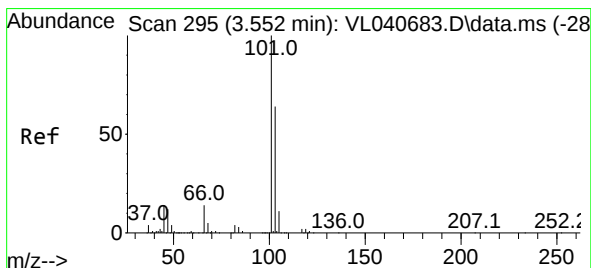
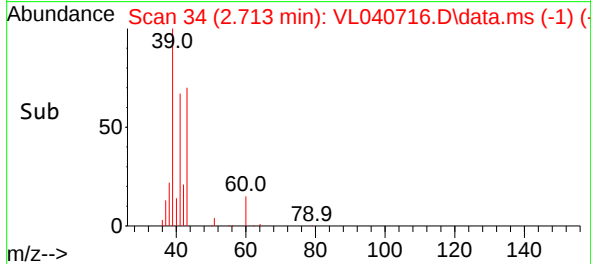
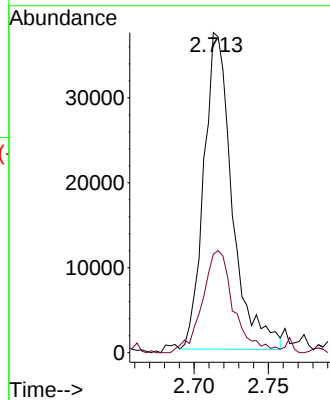
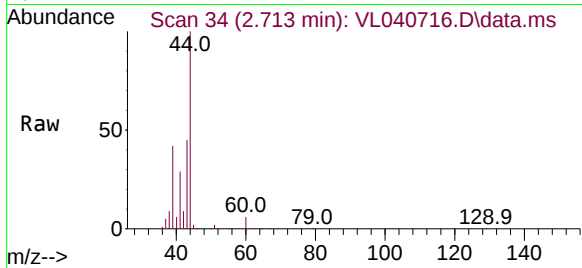
AMBIENTDL

Tgt Ion: 41 Resp: 49714

Ion Ratio Lower Upper

41 100

42 37.3 56.7 85.1#



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 3.575 min Scan# 302

Delta R.T. 0.007 min

Lab File: VL040716.D

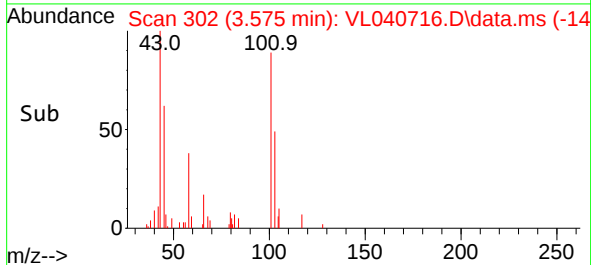
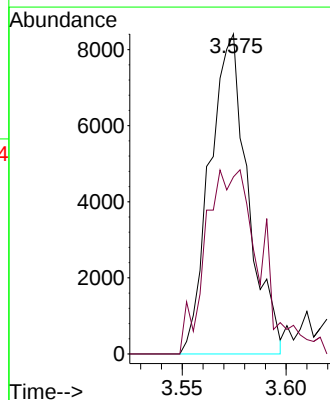
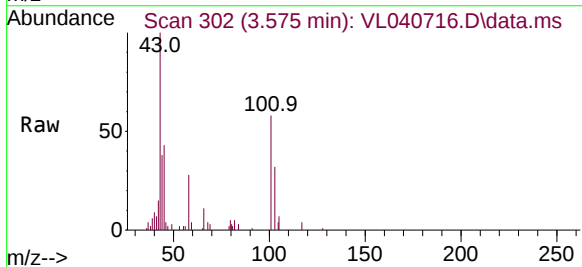
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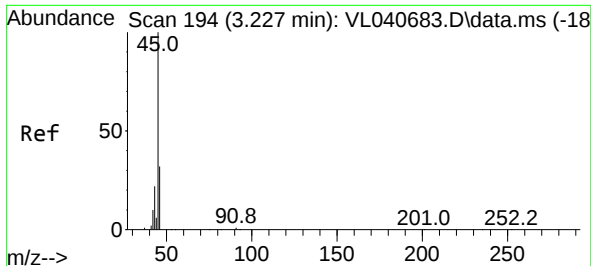
Tgt Ion: 101 Resp: 10731

Ion Ratio Lower Upper

101 100

103 55.4 51.3 76.9

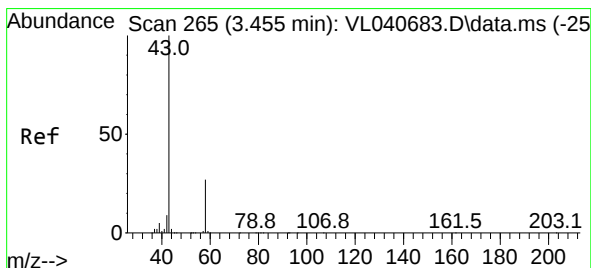
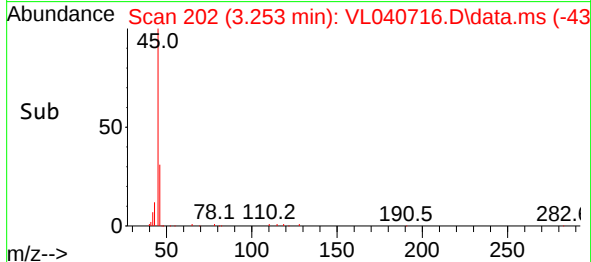
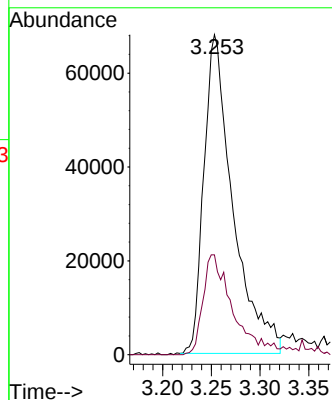
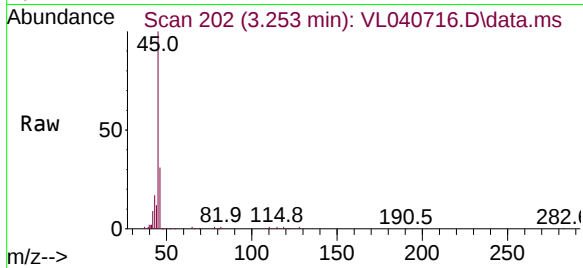




#13
 Ethanol
 Concen: 7.510 ppbv
 RT: 3.253 min Scan# 20
 Delta R.T. 0.010 min
 Lab File: VL040716.D
 Acq: 19 Sep 2023 2:25

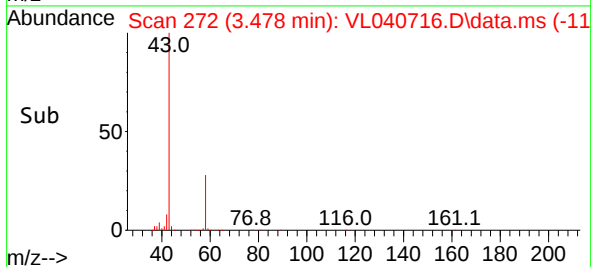
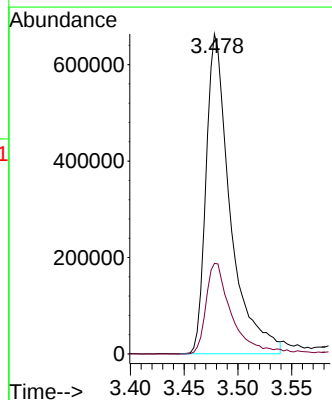
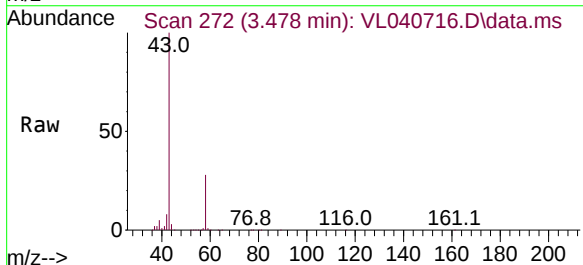
Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENTDL

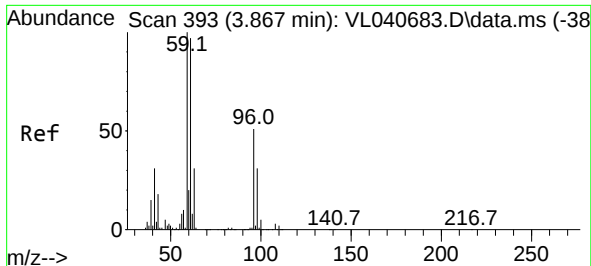
Tgt Ion: 45 Resp: 140913
 Ion Ratio Lower Upper
 45 100
 46 32.9 15.2 61.0



#15
 Acetone
 Concen: 5.832 ppbv
 RT: 3.478 min Scan# 272
 Delta R.T. 0.007 min
 Lab File: VL040716.D
 Acq: 19 Sep 2023 2:25

Tgt Ion: 43 Resp: 1039121
 Ion Ratio Lower Upper
 43 100
 58 30.6 22.6 34.0





#17

tert-Butyl alcohol

Concen: 0.048 ppbv

RT: 3.909 min Scan# 406

Delta R.T. 0.026 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Instrument :

MSVOA_L

ClientSampleId :

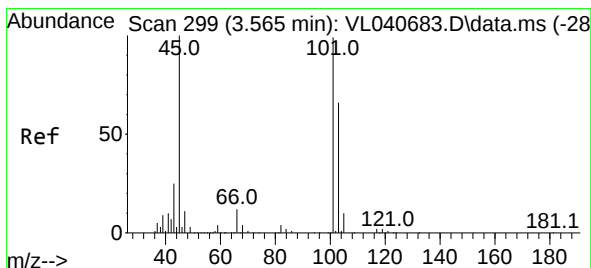
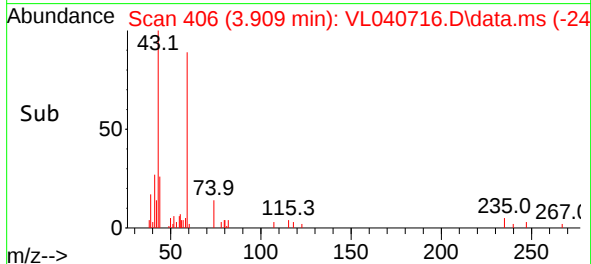
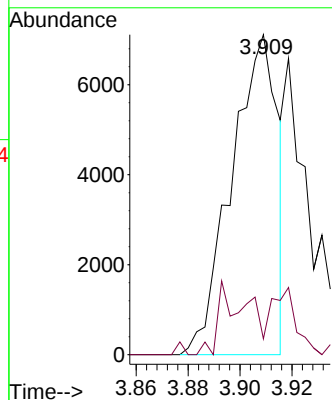
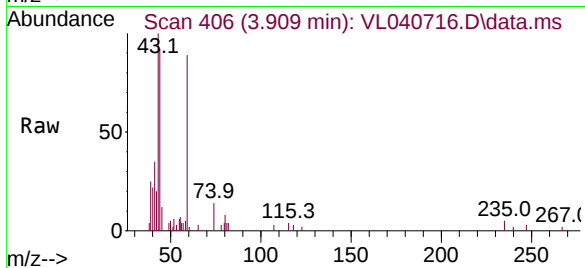
AMBIENTDL

Tgt Ion: 59 Resp: 8767

Ion Ratio Lower Upper

59 100

57 29.4 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.379 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.019 min

Lab File: VL040716.D

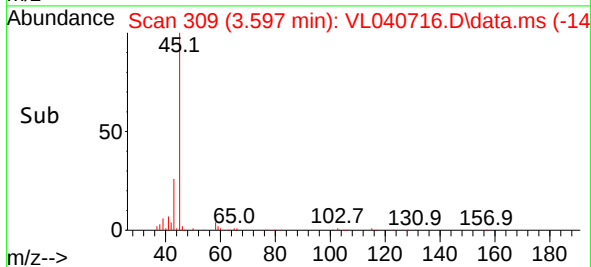
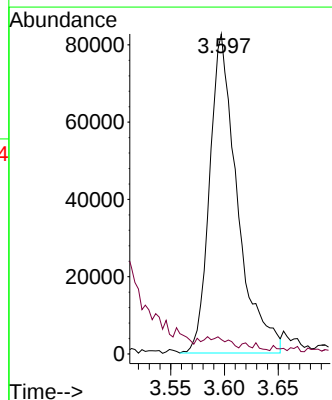
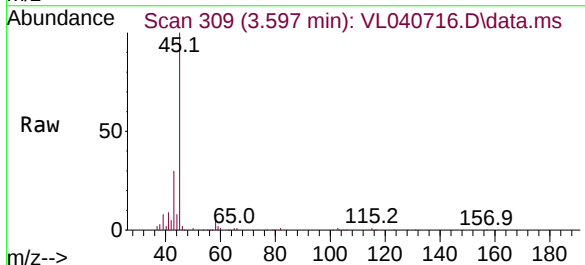
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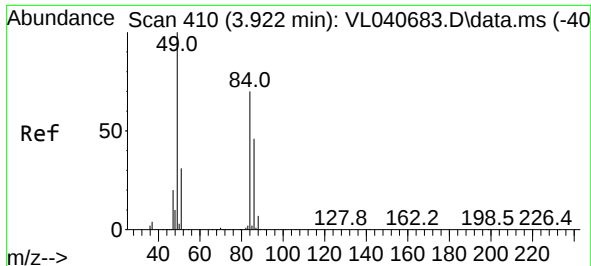
Tgt Ion: 45 Resp: 148002

Ion Ratio Lower Upper

45 100

58 6.5 1.9 2.9#





#20

Methylene Chloride

Concen: 0.317 ppbv

RT: 3.941 min Scan# 410

Delta R.T. 0.003 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Instrument :

MSVOA_L

ClientSampleId :

AMBIENTDL

Tgt Ion: 84 Resp: 30416

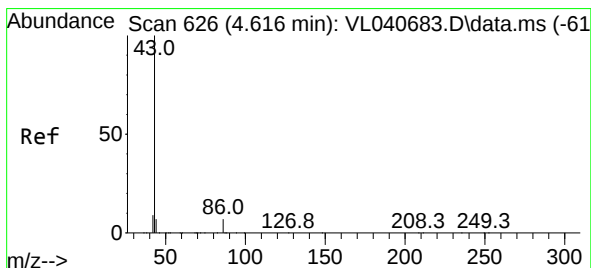
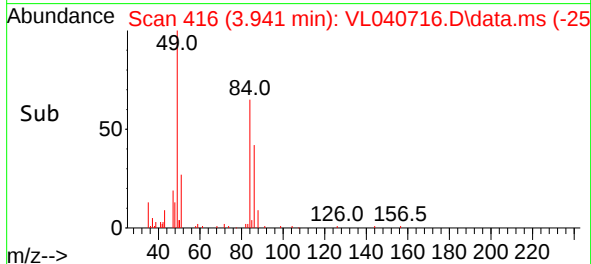
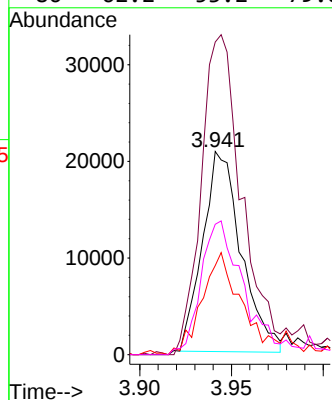
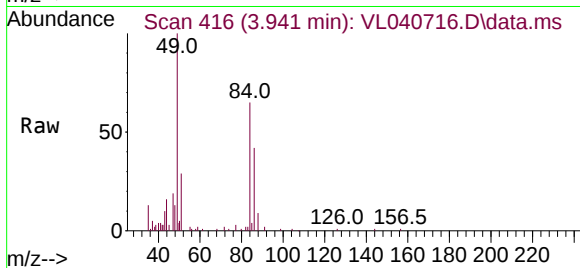
Ion Ratio Lower Upper

84 100

49 149.4 114.4 171.6

51 42.5 35.5 53.3

86 62.2 53.2 79.8



#23

Vinyl Acetate

Concen: 0.051 ppbv

RT: 4.632 min Scan# 631

Delta R.T. 0.000 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Tgt Ion: 43 Resp: 9343

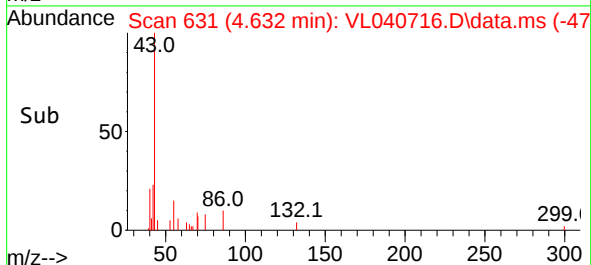
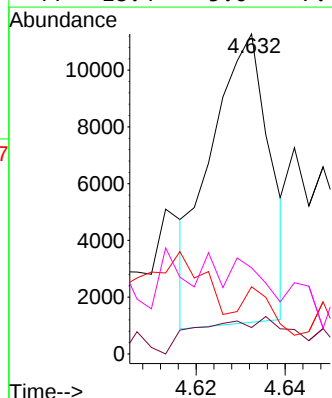
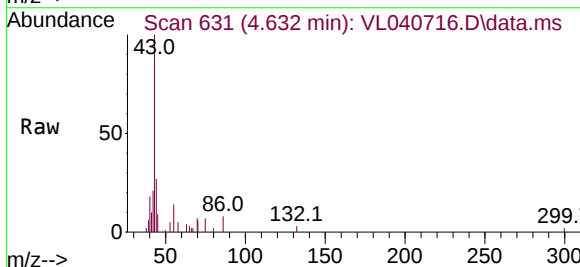
Ion Ratio Lower Upper

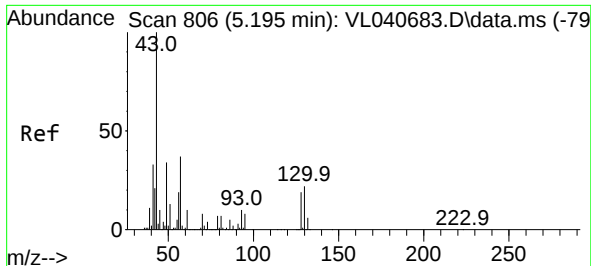
43 100

86 1.4 5.6 8.4#

42 19.9 7.6 11.4#

44 18.4 5.0 7.4#

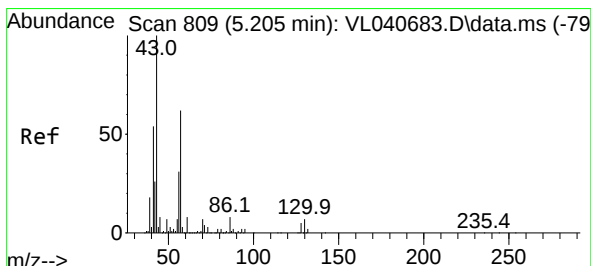
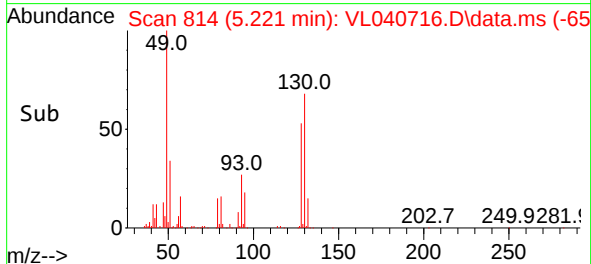
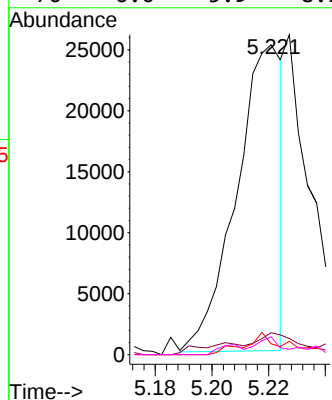
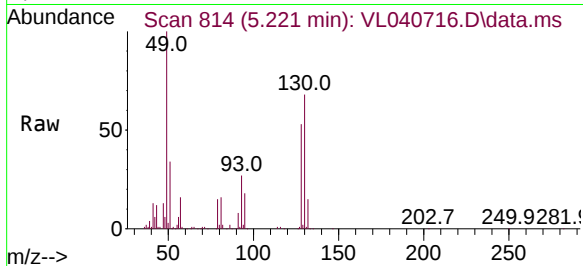




#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

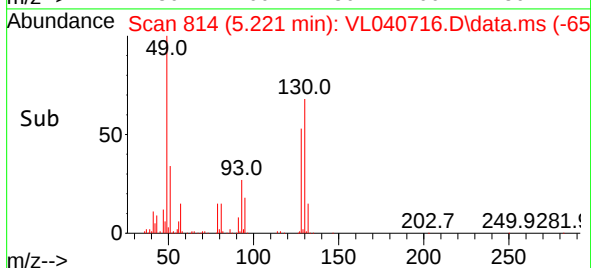
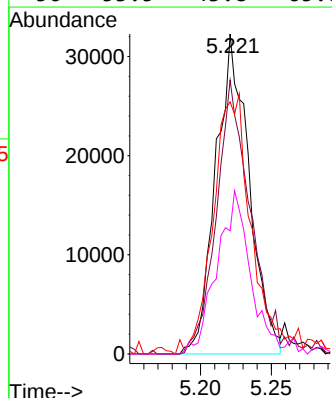
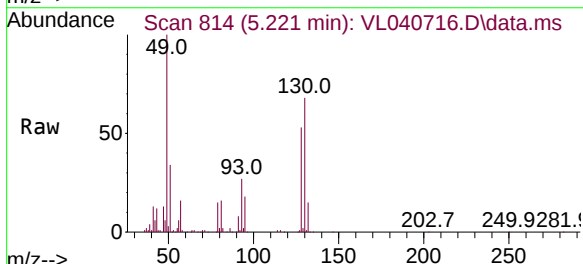
Instrument :
MSVOA_L
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AMBIENTDL

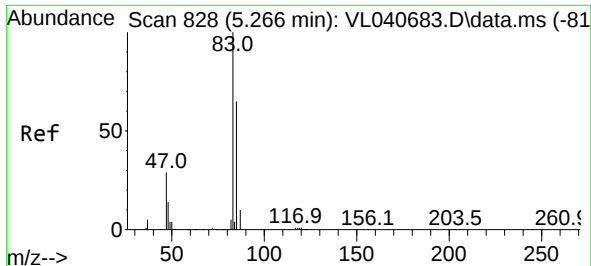
Tgt Ion: 43	Resp: 27891
Ion Ratio	Lower Upper
43 100	
45 16.3	8.2 12.4#
61 7.3	8.2 12.4#
70 6.0	5.9 8.9



#26
Hexane
Concen: 0.388 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Tgt Ion: 57	Resp: 52659
Ion Ratio	Lower Upper
57 100	
41 90.1	75.2 112.8
43 95.1	185.6 278.4#
56 53.5	43.8 65.8





#29

Chloroform

Concen: 0.045 ppbv

RT: 5.279 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Instrument :

MSVOA_L

ClientSampleId :

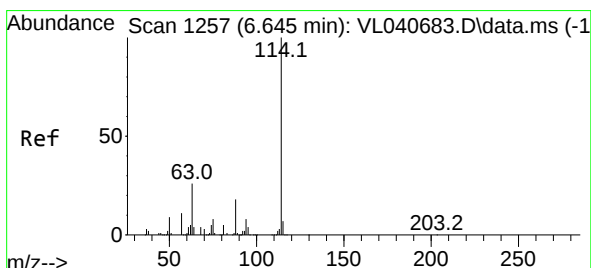
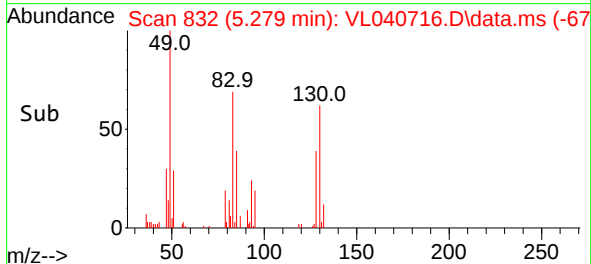
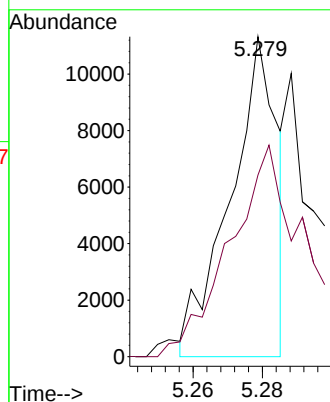
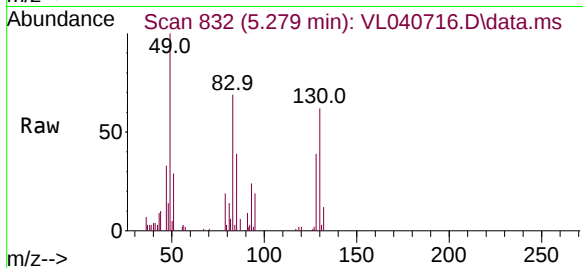
AMBIENTDL

Tgt Ion: 83 Resp: 10651

Ion Ratio Lower Upper

83 100

85 54.7 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: VL040716.D

Acq: 19 Sep 2023 2:25

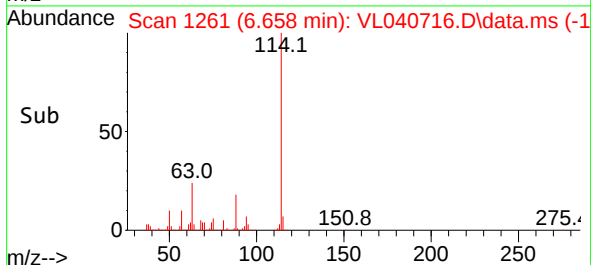
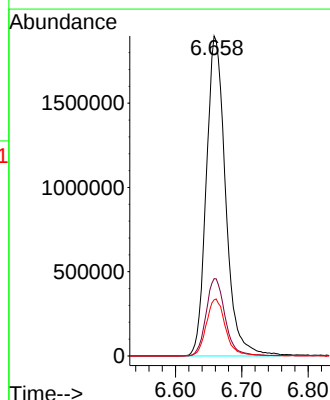
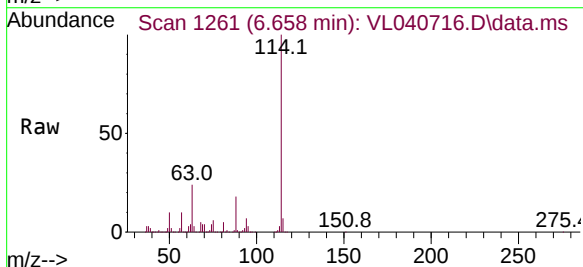
Tgt Ion: 114 Resp: 3830617

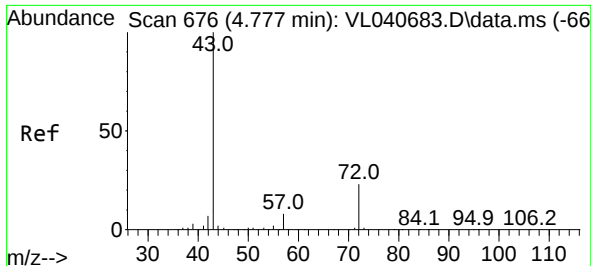
Ion Ratio Lower Upper

114 100

63 24.2 21.1 31.7

88 17.8 14.5 21.7

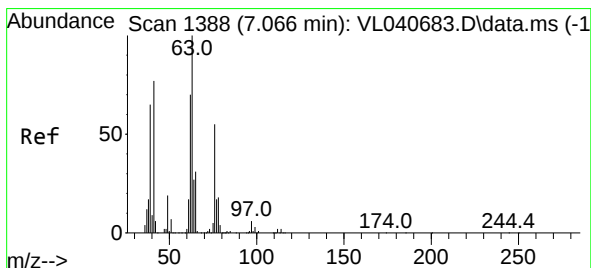
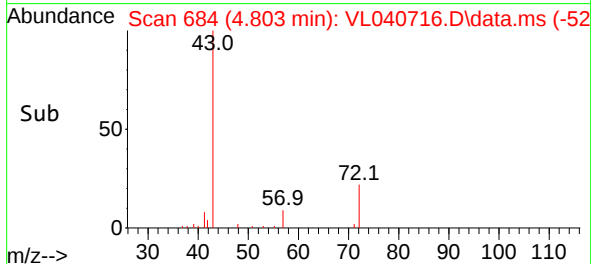
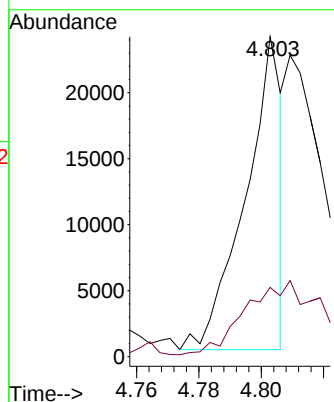
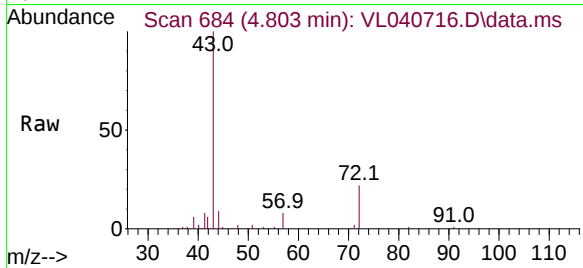




#34
2-Butanone
Concen: 0.099 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

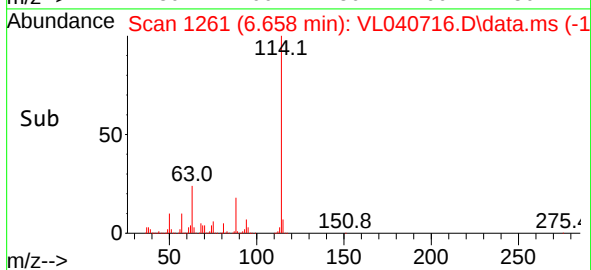
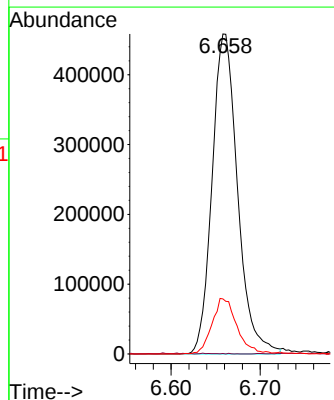
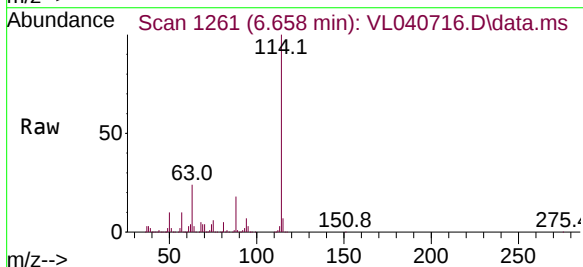
Instrument :
MSVOA_L
ClientSampleId :
AMBIENTDL

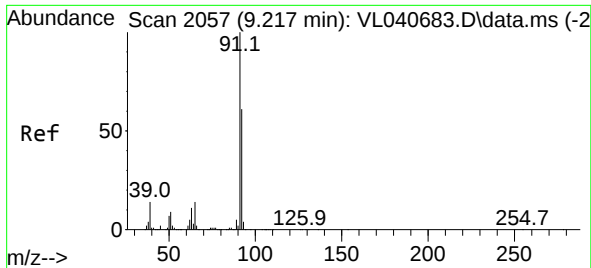
Tgt Ion: 43 Resp: 19130
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#39
1,2-Dichloropropane
Concen: 8.348 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.424 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Tgt Ion: 63 Resp: 911470
Ion Ratio Lower Upper
63 100
41 0.1 61.6 92.4#
62 17.2 55.8 83.8#





#53

Toluene

Concen: 0.044 ppbv

RT: 9.224 min Scan# 2057

Delta R.T. -0.006 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Instrument :

MSVOA_1

ClientSampleId :

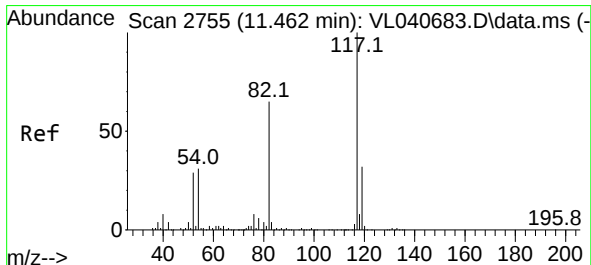
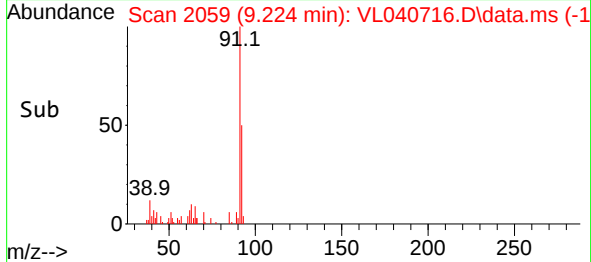
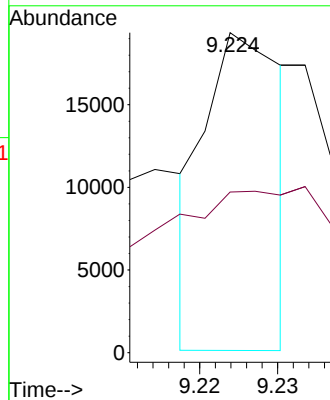
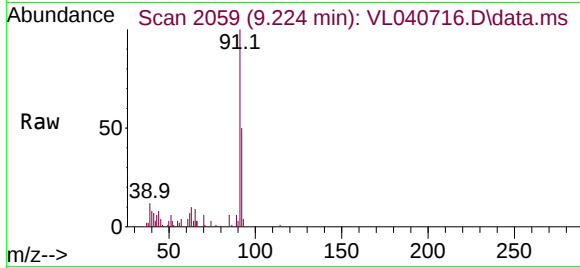
AMBIENTDL

Tgt Ion: 91 Resp: 13107

Ion Ratio Lower Upper

91 100

92 0.0 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: VL040716.D

Acq: 19 Sep 2023 2:25

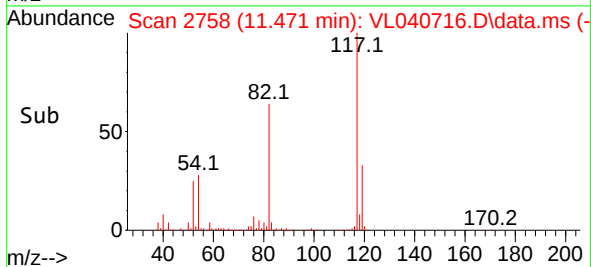
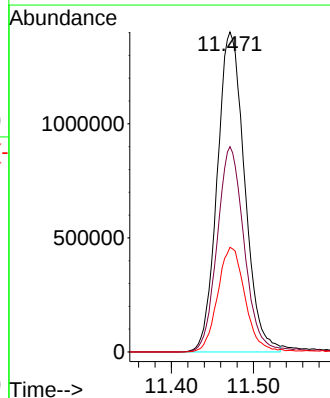
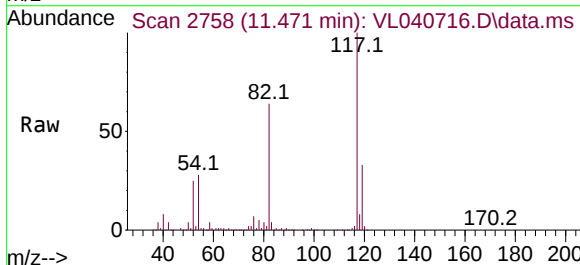
Tgt Ion: 117 Resp: 3256803

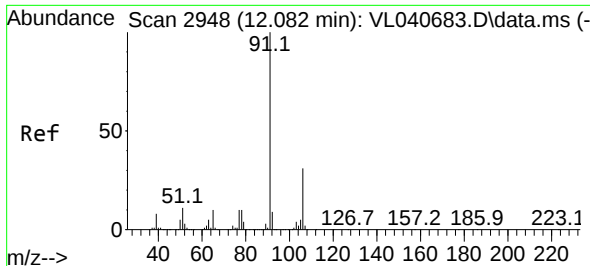
Ion Ratio Lower Upper

117 100

82 64.6 51.4 77.0

119 33.2 24.7 37.1

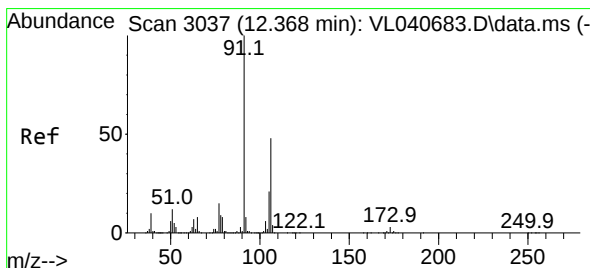
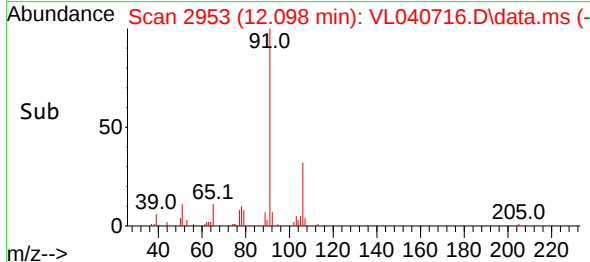
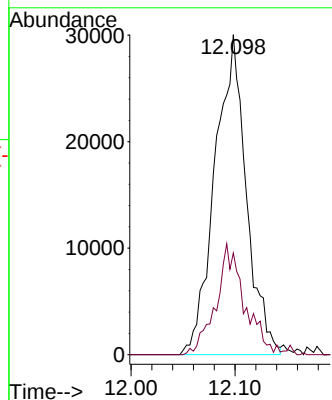
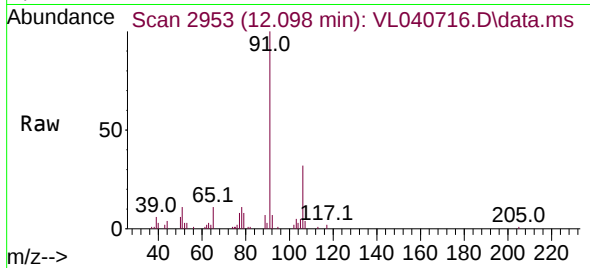




#58
Ethyl Benzene
Concen: 0.170 ppbv
RT: 12.098 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

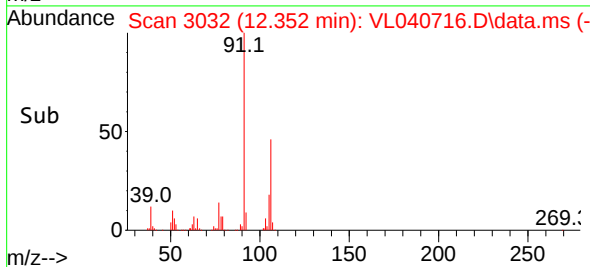
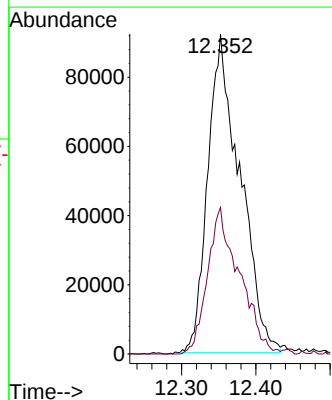
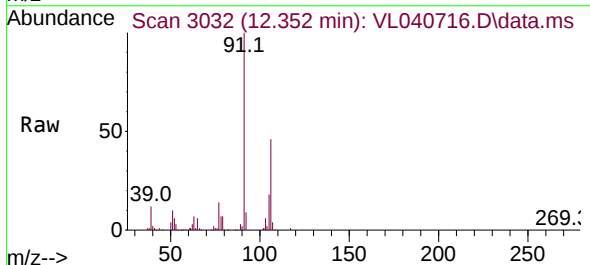
Instrument :
MSVOA_L
ClientSampleId :
AMBIENTDL

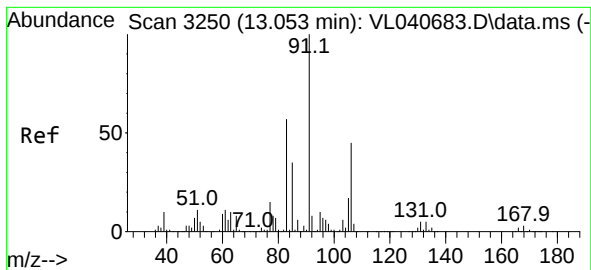
Tgt Ion: 91 Resp: 63050
Ion Ratio Lower Upper
91 100
106 31.8 24.7 37.1



#59
m/p-Xylene
Concen: 0.796 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.029 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Tgt Ion: 91 Resp: 277487
Ion Ratio Lower Upper
91 100
106 46.2 34.8 52.2





#60

o-Xylene

Concen: 0.314 ppbv

RT: 13.063 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

Instrument :

MSVOA_L

ClientSampleId :

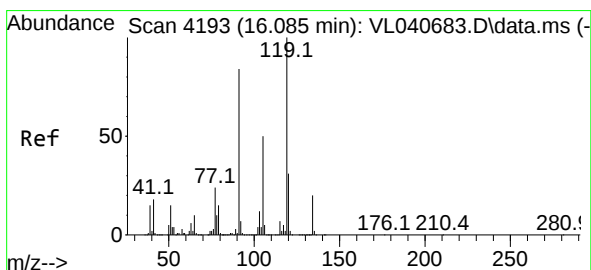
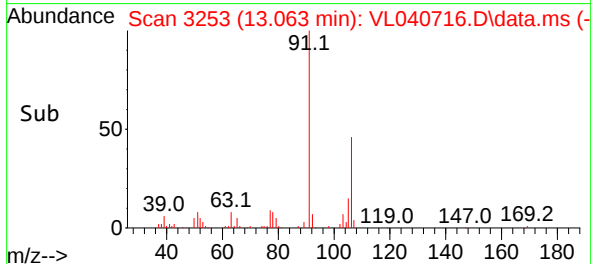
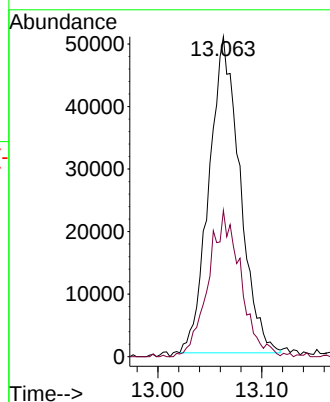
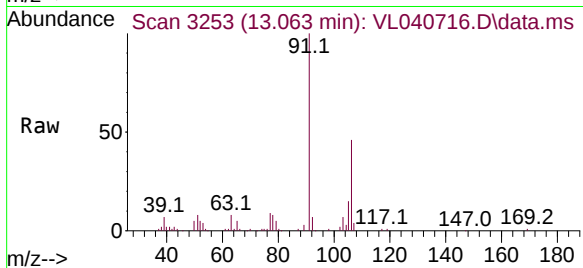
AMBIENTDL

Tgt Ion: 91 Resp: 104350

Ion Ratio Lower Upper

91 100

106 48.5 22.3 66.9



#65

tert-Butylbenzene

Concen: 0.062 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. 0.023 min

Lab File: VL040716.D

Acq: 19 Sep 2023 2:25

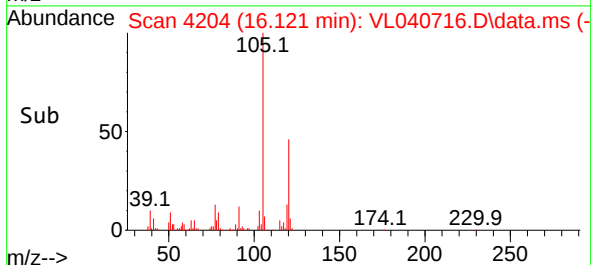
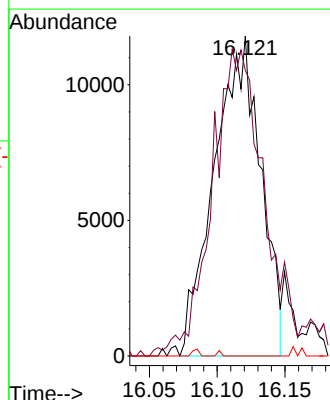
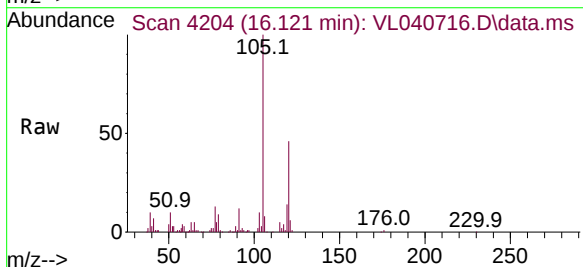
Tgt Ion: 119 Resp: 28089

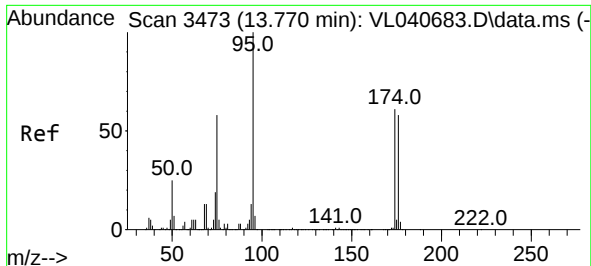
Ion Ratio Lower Upper

119 100

91 115.6 69.8 104.8#

134 0.7 15.4 23.2#

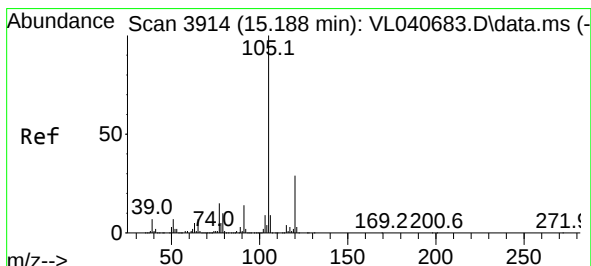
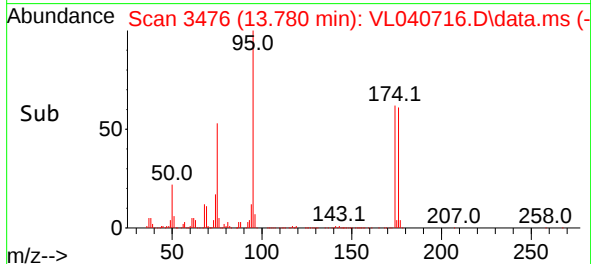
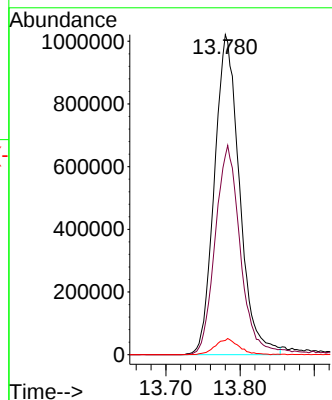
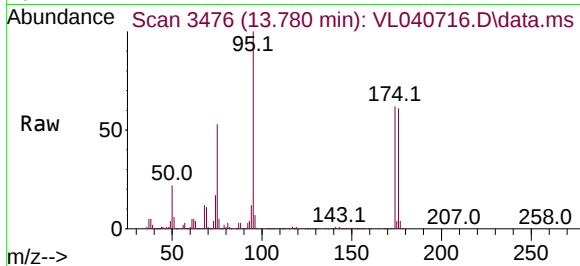




#68
1-Bromo-4-Fluorobenzene
Concen: 9.538 ppbv
RT: 13.780 min Scan# 3473
Delta R.T. -0.006 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

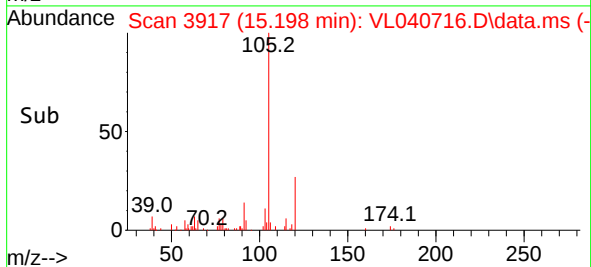
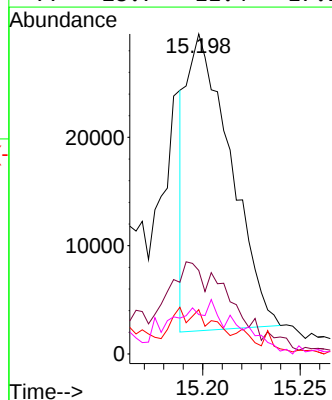
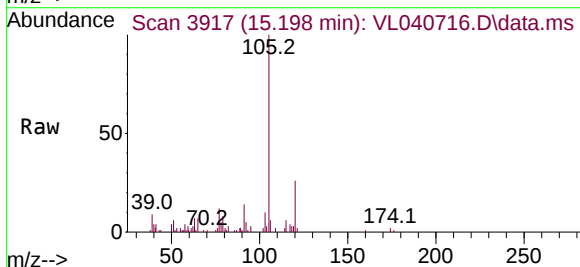
Instrument :
MSVOA_L
ClientSampleId :
AMBIENTDL

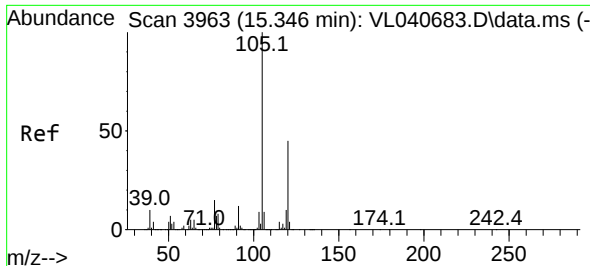
Tgt Ion: 95 Resp: 2399912
Ion Ratio Lower Upper
95 100
174 67.4 48.9 73.3
175 4.8 3.5 5.3



#72
4-Ethyltoluene
Concen: 0.115 ppbv
RT: 15.198 min Scan# 3917
Delta R.T. -0.003 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Tgt Ion: 105 Resp: 42901
Ion Ratio Lower Upper
105 100
120 47.4 23.9 35.9#
91 22.0 11.0 16.4#
77 28.7 11.4 17.2#

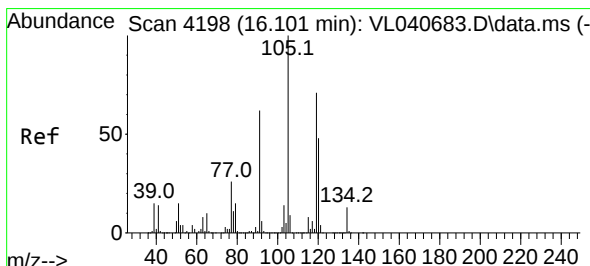
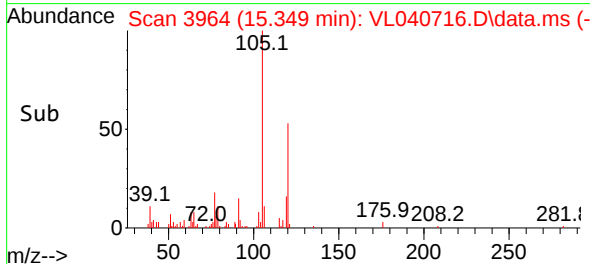
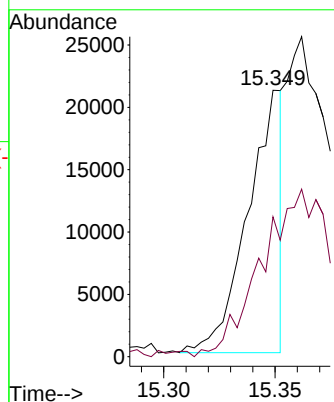
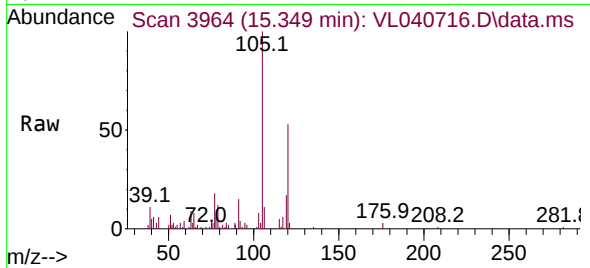




#73
1,3,5-Trimethylbenzene
Concen: 0.067 ppbv
RT: 15.349 min Scan# 3963
Delta R.T. -0.013 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Instrument :
MSVOA_1
ClientSampleId :
AMBIENTDL

Tgt Ion:105 Resp: 22575
Ion Ratio Lower Upper
105 100
120 51.3 36.1 54.1



#74
1,2,4-Trimethylbenzene
Concen: 0.592 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. -0.003 min
Lab File: VL040716.D
Acq: 19 Sep 2023 2:25

Tgt Ion:105 Resp: 242377
Ion Ratio Lower Upper
105 100
120 42.5 38.6 57.8
91 10.7 50.0 75.0#
77 15.6 20.6 31.0#

