

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040880.D
 Acq On : 15 Nov 2023 22:43
 Operator : SY/MD
 Sample : 05277-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-4DL

Quant Time: Nov 16 06:34:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

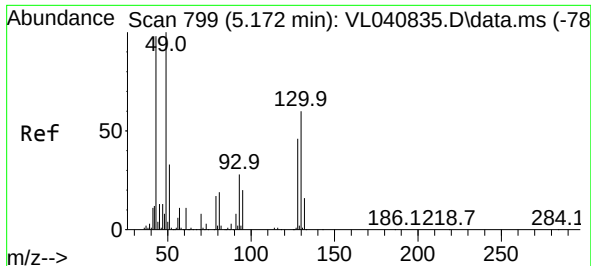
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.202	49	982795	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.652	114	2391351	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.446	117	2096606	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1637626	9.976	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.768	85	9152	0.046	ppbv	97
3) Chlorodifluoromethane	2.713	51	10472	0.067	ppbv #	78
4) Chloromethane	2.832	50	7328	0.130	ppbv #	52
7) Chloroethane	2.899	64	787	0.041	ppbv #	88
8) Dichlorotetrafluoroethane	2.835	85	91995	0.639	ppbv #	15
9) Propene	2.732	41	51203	0.968	ppbv	89
13) Ethanol	3.272	45	775454	75.519	ppbv #	100
15) Acetone	3.494	43	902139	8.619	ppbv	93
16) 1,3-Butadiene	2.996	39	7912	0.149	ppbv #	11
17) tert-Butyl alcohol	3.925	59	17585	0.196	ppbv #	80
19) Isopropyl Alcohol	3.613	45	67624	1.074	ppbv #	1
20) Methylene Chloride	3.954	84	256962	5.949	ppbv	98
25) Ethyl Acetate	5.221	43	107425	0.496	ppbv #	78
26) Hexane	5.224	57	152489	1.590	ppbv #	41
27) Carbon Disulfide	4.147	76	56849	0.467	ppbv #	80
36) Benzene	6.375	78	39908	0.206	ppbv #	89
39) 1,2-Dichloropropane	6.648	63	625369	8.127	ppbv #	24
53) Toluene	9.217	91	8327	0.039	ppbv #	20

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

Quant Time: Nov 16 06:34:45 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
Response via : Initial Calibration

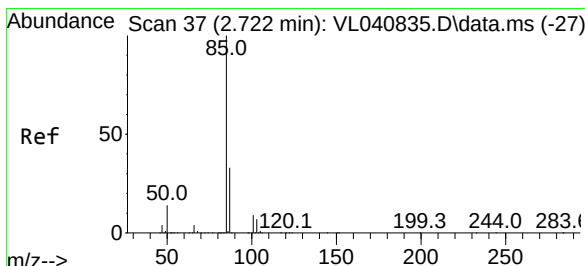
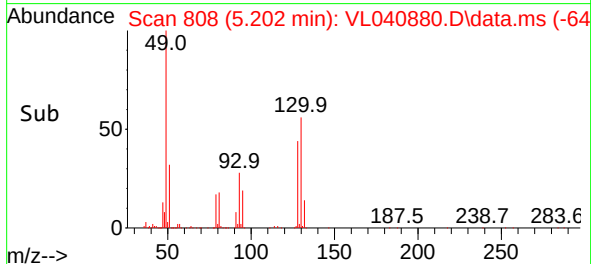
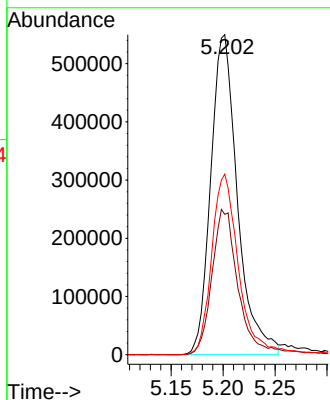
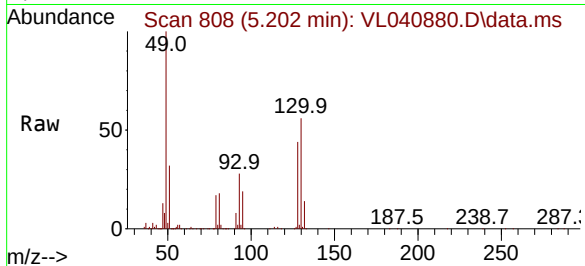




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.202 min Scan# 80
Delta R.T. 0.030 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

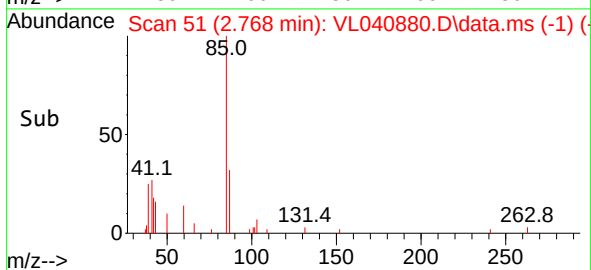
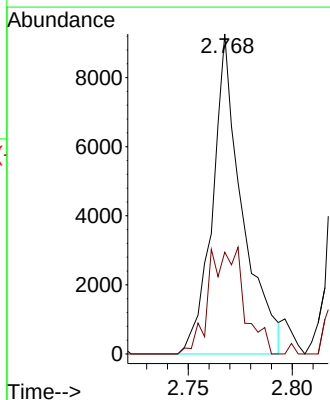
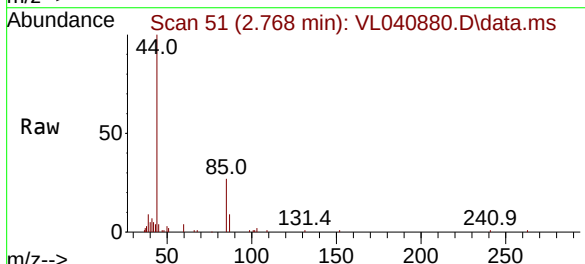
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4DL

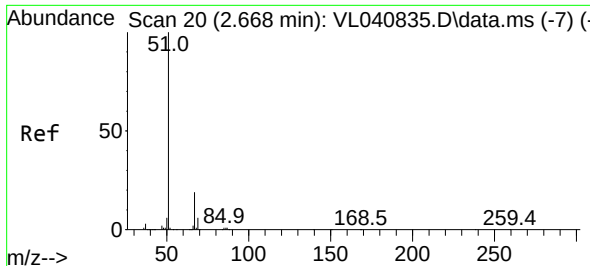
Tgt Ion: 49 Resp: 982795
Ion Ratio Lower Upper
49 100
128 46.3 23.8 71.2
130 58.3 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.768 min Scan# 51
Delta R.T. 0.045 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Tgt Ion: 85 Resp: 9152
Ion Ratio Lower Upper
85 100
87 31.8 26.7 40.1

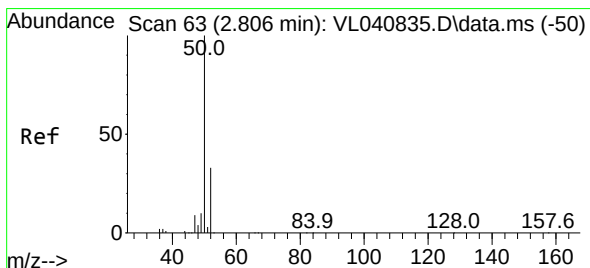
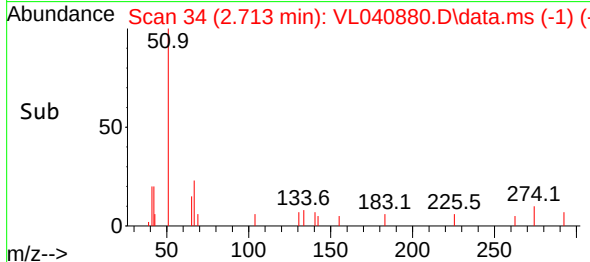
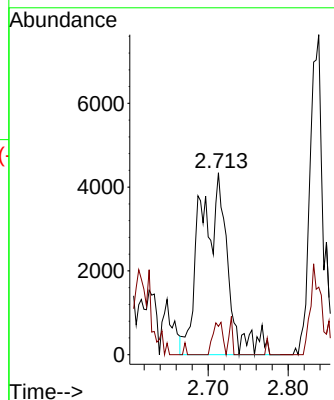
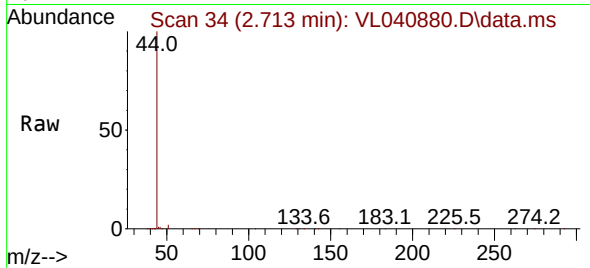




#3
Chlorodifluoromethane
Concen: 0.067 ppbv
RT: 2.713 min Scan# 34
Delta R.T. 0.045 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

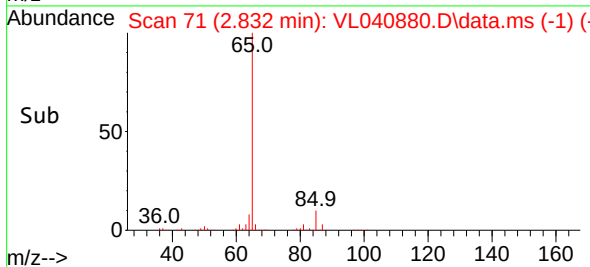
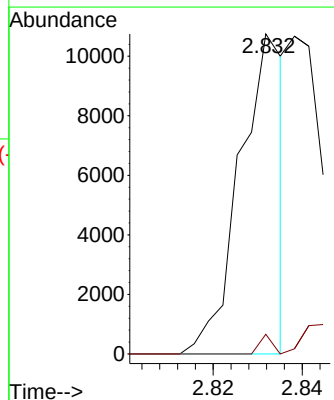
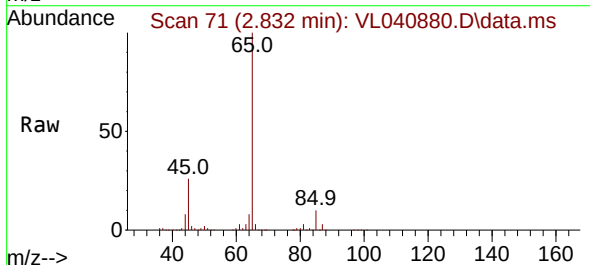
Instrument :
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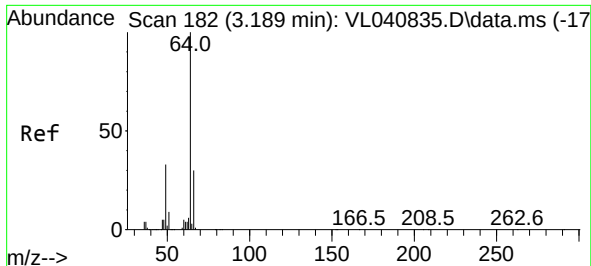
Tgt Ion: 51 Resp: 10472
Ion Ratio Lower Upper
51 100
67 8.7 15.0 22.4#



#4
Chloromethane
Concen: 0.130 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Tgt Ion: 50 Resp: 7328
Ion Ratio Lower Upper
50 100
52 6.2 26.5 39.7#

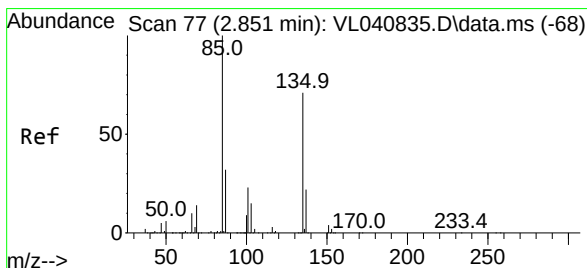
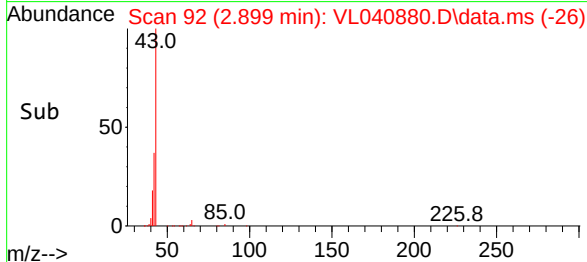
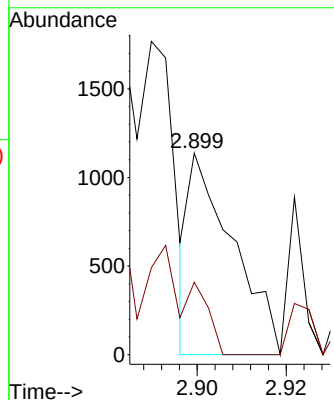
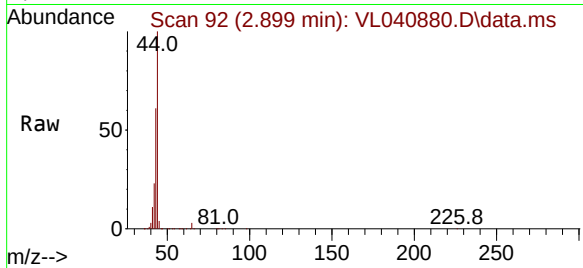




#7
 Chloroethane
 Concen: 0.041 ppbv
 RT: 2.899 min Scan# 91
 Delta R.T. -0.289 min
 Lab File: VL040880.D
 Acq: 15 Nov 2023 22:43

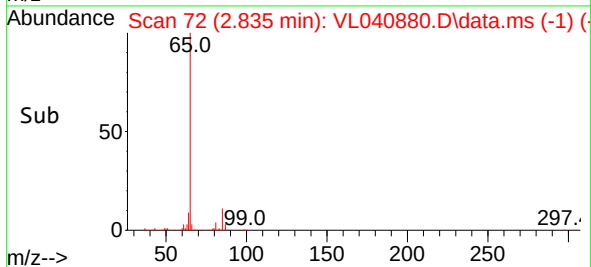
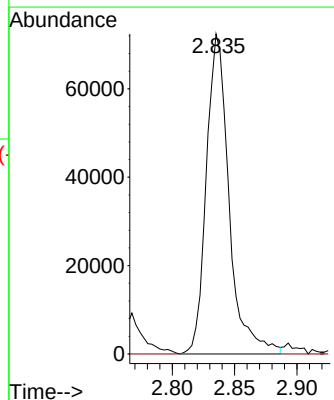
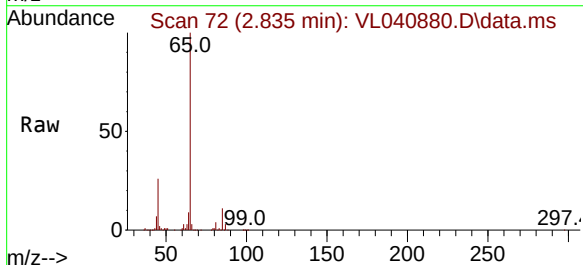
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-4DL

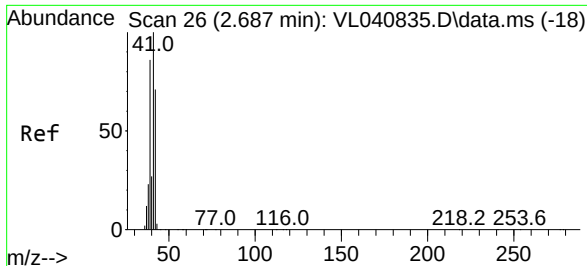
Tgt Ion: 64 Resp: 787
 Ion Ratio Lower Upper
 64 100
 66 35.9 23.8 35.6#



#8
 Dichlorotetrafluoroethane
 Concen: 0.639 ppbv
 RT: 2.835 min Scan# 72
 Delta R.T. -0.016 min
 Lab File: VL040880.D
 Acq: 15 Nov 2023 22:43

Tgt Ion: 85 Resp: 91995
 Ion Ratio Lower Upper
 85 100
 135 0.0 55.3 82.9#





#9

Propene

Concen: 0.968 ppbv

RT: 2.732 min Scan# 40

Delta R.T. 0.045 min

Lab File: VL040880.D

Acq: 15 Nov 2023 22:43

Instrument :

MSVOA_L

ClientSampleId :

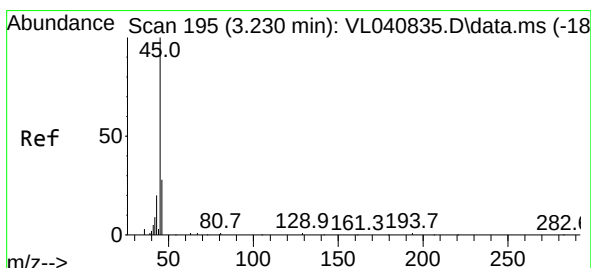
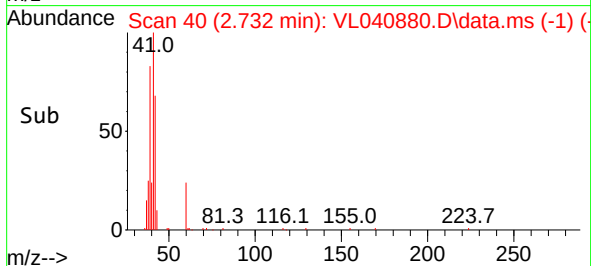
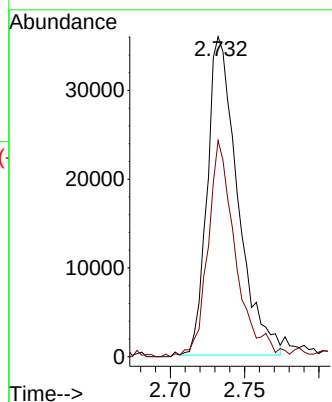
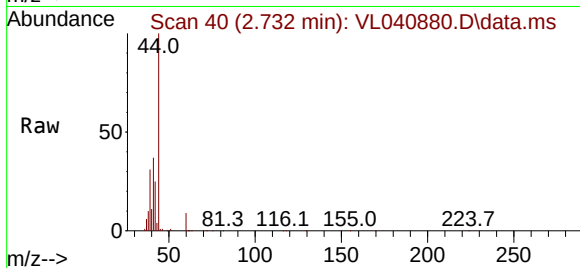
NT-SS-4DL

Tgt Ion: 41 Resp: 51203

Ion Ratio Lower Upper

41 100

42 61.6 56.5 84.7



#13

Ethanol

Concen: 75.519 ppbv

RT: 3.272 min Scan# 208

Delta R.T. 0.042 min

Lab File: VL040880.D

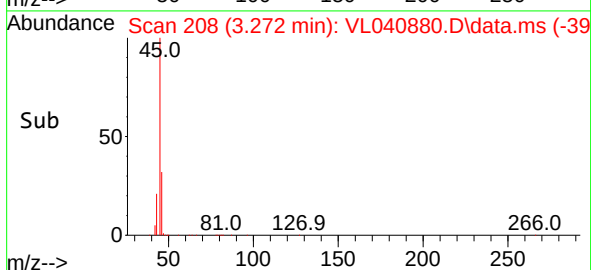
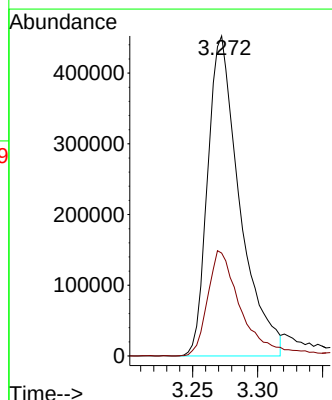
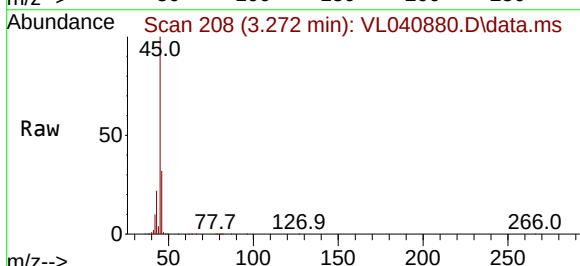
Acq: 15 Nov 2023 22:43

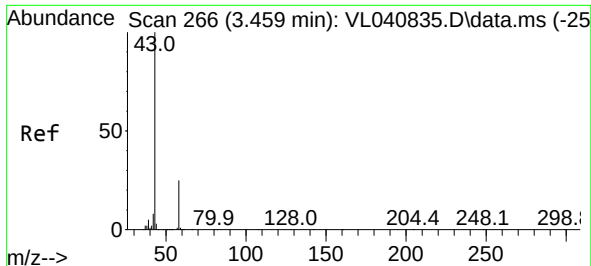
Tgt Ion: 45 Resp: 775454

Ion Ratio Lower Upper

45 100

46 36.4 0.0 0.0#

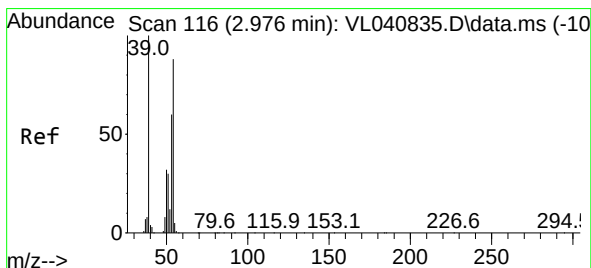
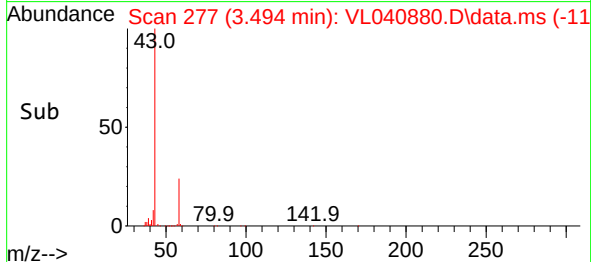
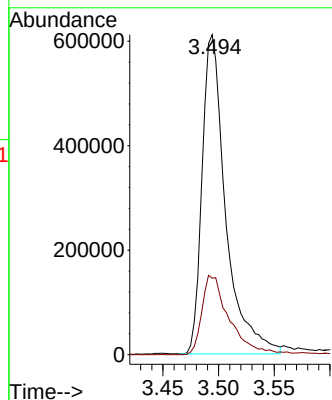
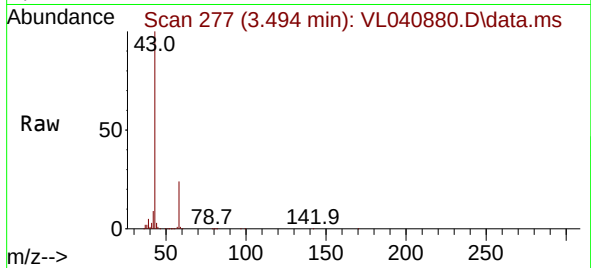




#15
Acetone
Concen: 8.619 ppbv
RT: 3.494 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

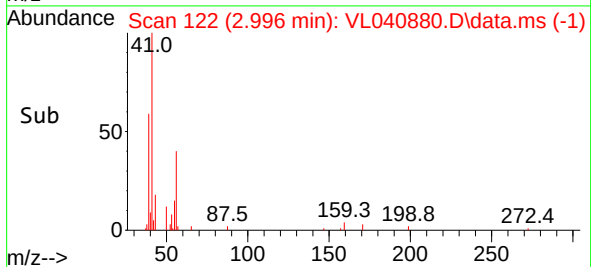
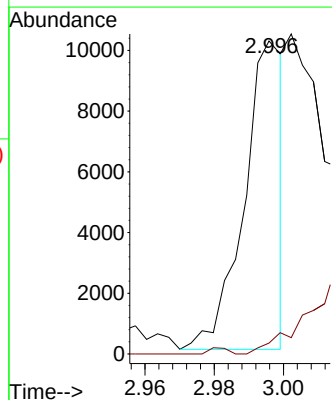
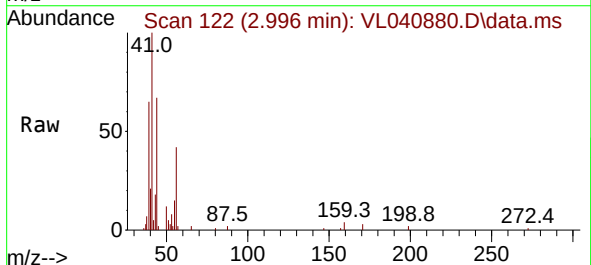
Instrument :
MSVOA_L
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NT-SS-4DL

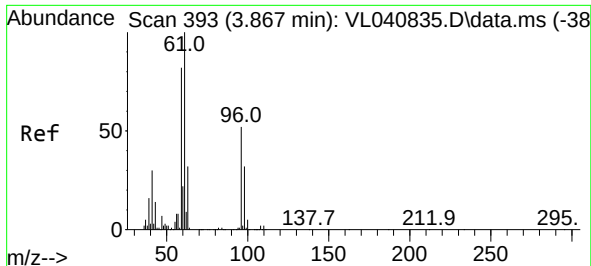
Tgt Ion: 43 Resp: 902139
Ion Ratio Lower Upper
43 100
58 29.6 20.9 31.3



#16
1,3-Butadiene
Concen: 0.149 ppbv
RT: 2.996 min Scan# 122
Delta R.T. 0.019 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Tgt Ion: 39 Resp: 7912
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#17

tert-Butyl alcohol

Concen: 0.196 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.058 min

Lab File: VL040880.D

Acq: 15 Nov 2023 22:43

Instrument :

MSVOA_L

ClientSampleId :

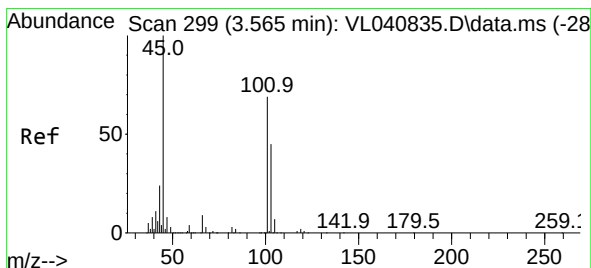
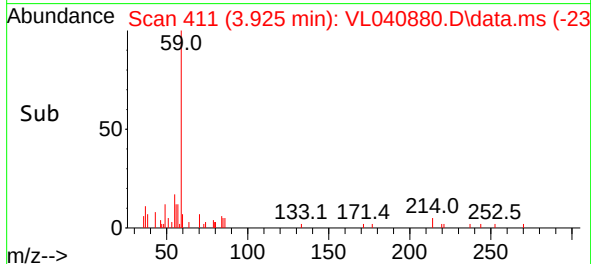
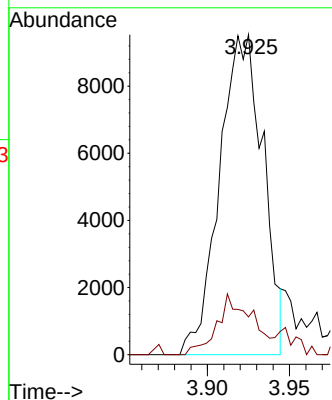
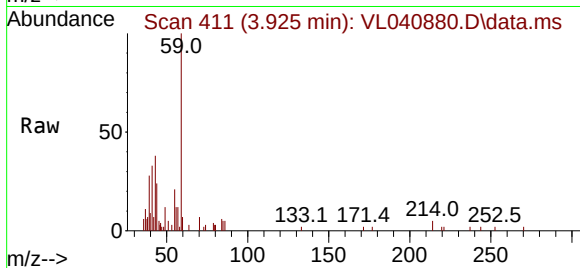
NT-SS-4DL

Tgt Ion: 59 Resp: 17585

Ion Ratio Lower Upper

59 100

57 18.9 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 1.074 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.048 min

Lab File: VL040880.D

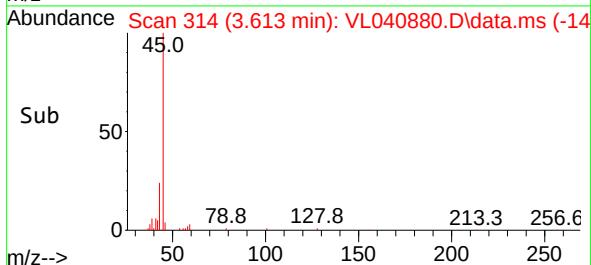
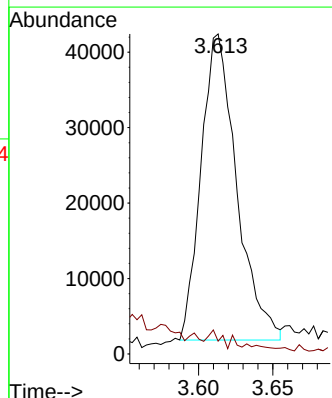
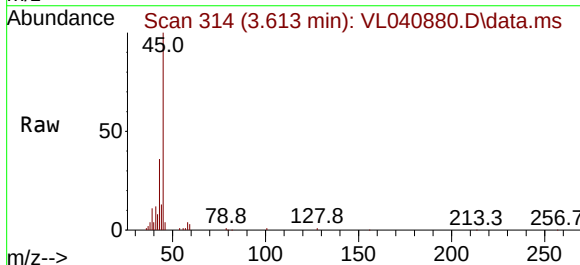
Acq: 15 Nov 2023 22:43

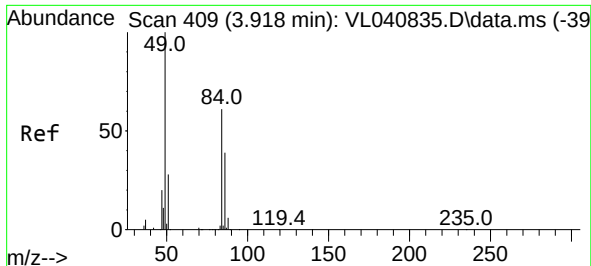
Tgt Ion: 45 Resp: 67624

Ion Ratio Lower Upper

45 100

58 395.4 1.6 2.4#



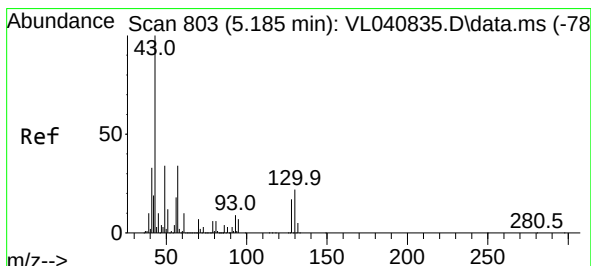
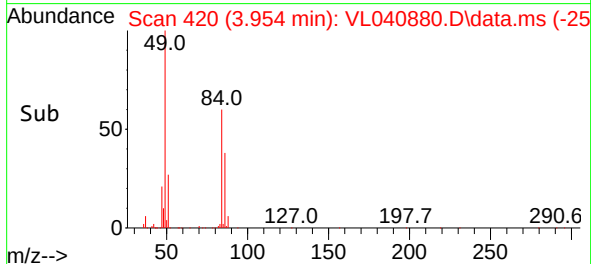
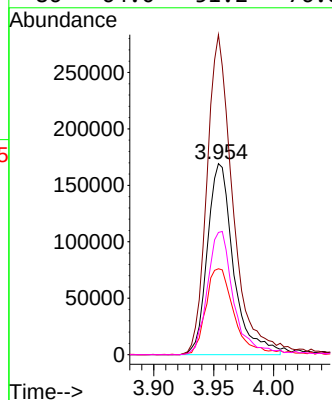
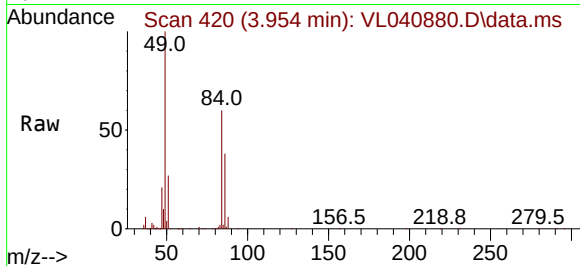


#20
Methylene Chloride
Concen: 5.949 ppbv
RT: 3.954 min Scan# 41
Delta R.T. 0.035 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4DL

Tgt Ion: 84 Resp: 256962

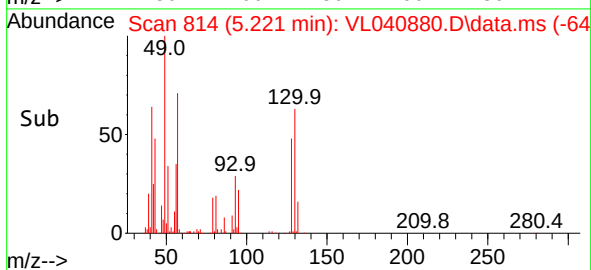
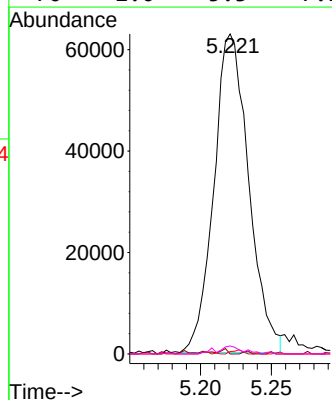
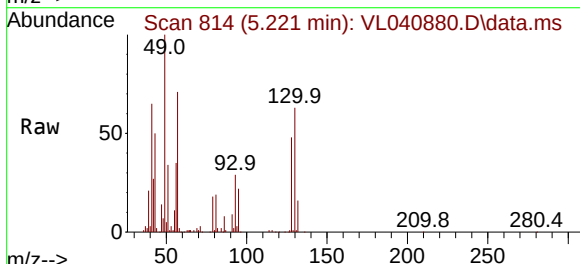
Ion	Ratio	Lower	Upper
84	100		
49	167.1	131.0	196.4
51	44.9	36.9	55.3
86	64.0	51.2	76.8

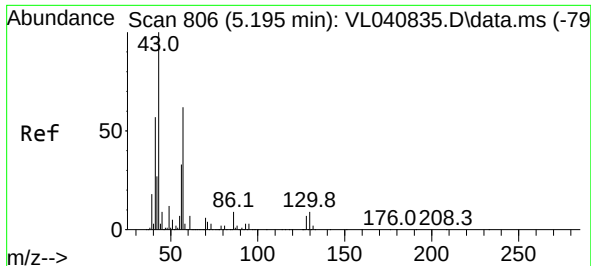


#25
Ethyl Acetate
Concen: 0.496 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.035 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Tgt Ion: 43 Resp: 107425

Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.1	12.1#
61	0.4	7.8	11.6#
70	2.0	5.3	7.9#

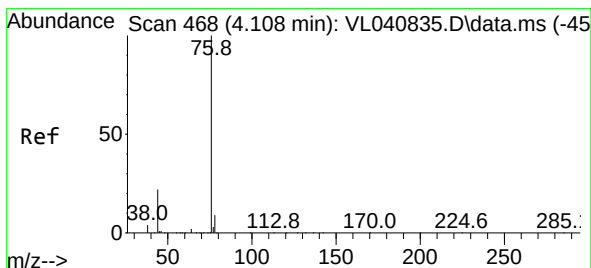
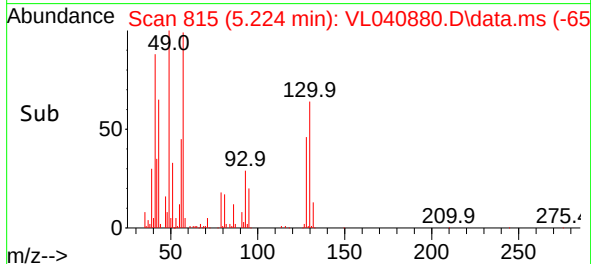
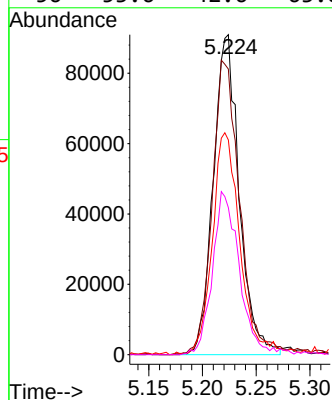
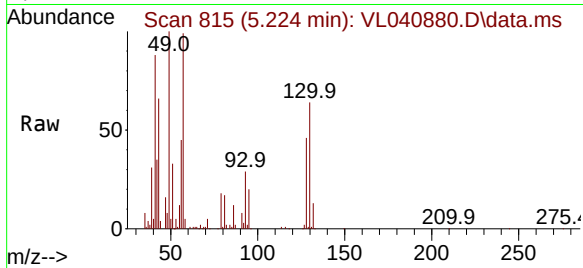




#26
Hexane
Concen: 1.590 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.029 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

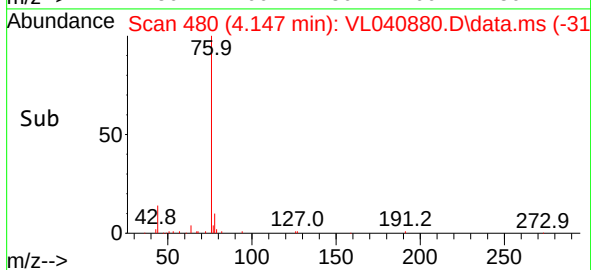
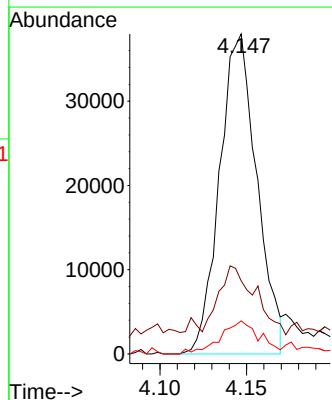
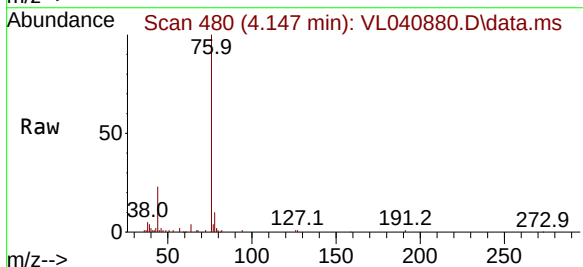
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4DL

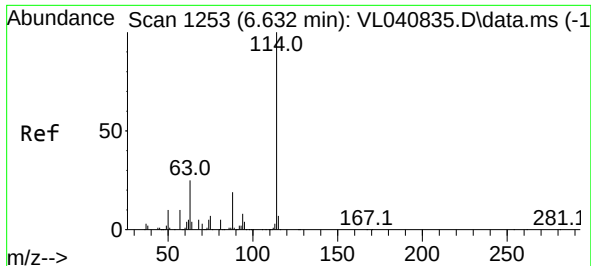
Tgt Ion: 57 Resp: 152489
Ion Ratio Lower Upper
57 100
41 100.1 75.4 113.0
43 75.8 185.9 278.9#
56 53.6 42.6 63.8



#27
Carbon Disulfide
Concen: 0.467 ppbv
RT: 4.147 min Scan# 480
Delta R.T. 0.039 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Tgt Ion: 76 Resp: 56849
Ion Ratio Lower Upper
76 100
44 32.3 16.7 25.1#
78 13.2 7.6 11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 1173

Delta R.T. 0.019 min

Lab File: VL040880.D

Acq: 15 Nov 2023 22:43

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-4DL

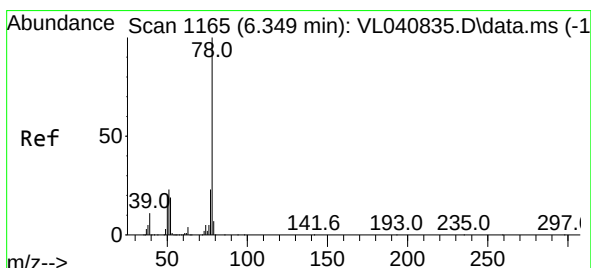
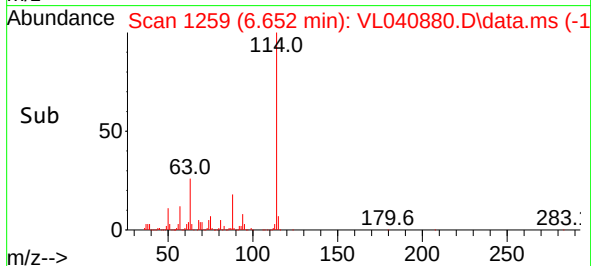
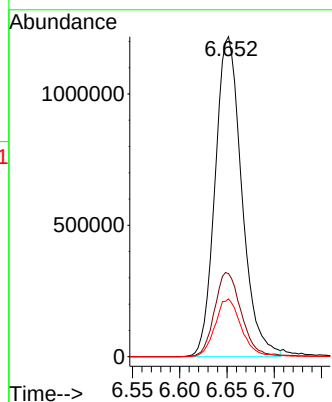
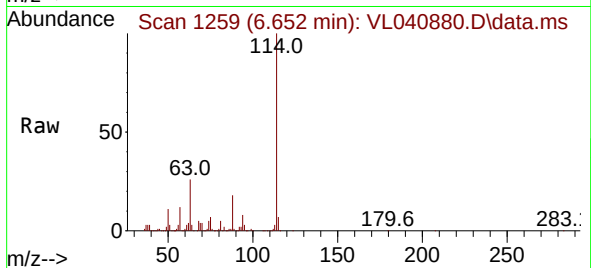
Tgt Ion:114 Resp: 2391351

Ion Ratio Lower Upper

114 100

63 26.9 20.9 31.3

88 17.9 14.3 21.5



#36

Benzene

Concen: 0.206 ppbv

RT: 6.375 min Scan# 1173

Delta R.T. 0.026 min

Lab File: VL040880.D

Acq: 15 Nov 2023 22:43

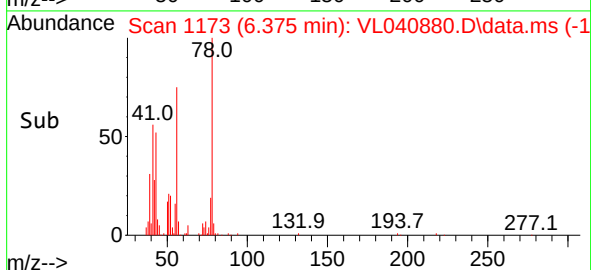
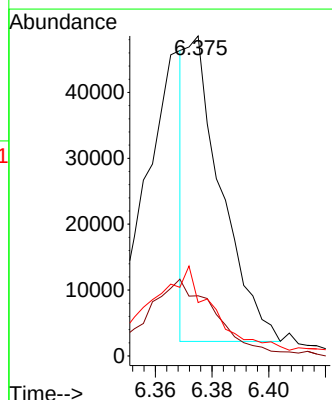
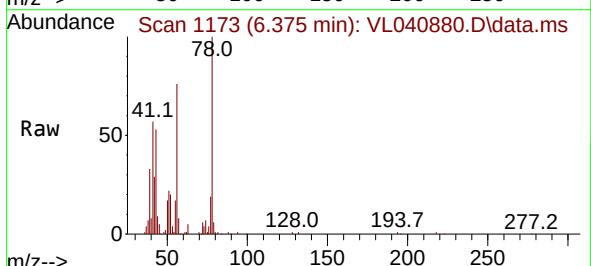
Tgt Ion: 78 Resp: 39908

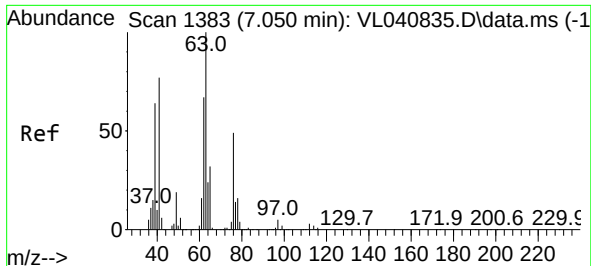
Ion Ratio Lower Upper

78 100

77 18.3 18.4 27.6#

50 14.4 16.2 24.2#





#39

1,2-Dichloropropane

Concen: 8.127 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.402 min

Lab File: VL040880.D

Acq: 15 Nov 2023 22:43

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-4DL

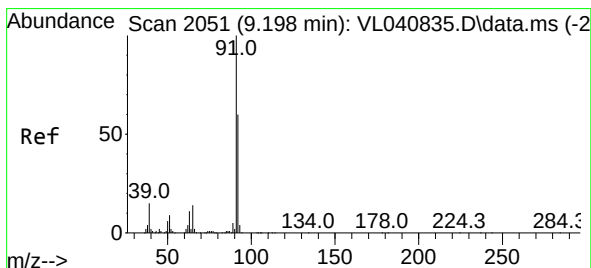
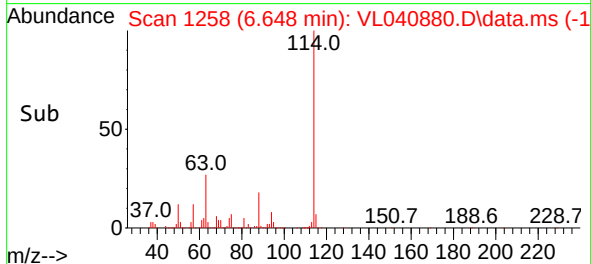
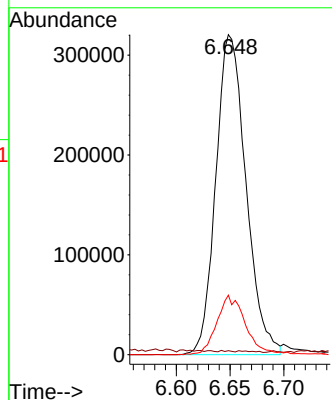
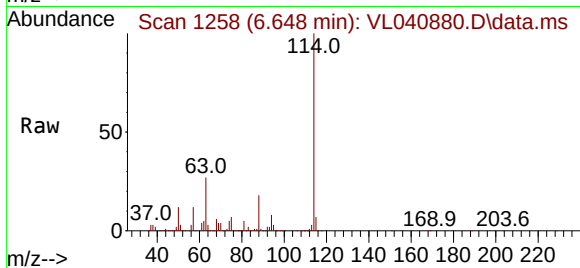
Tgt Ion: 63 Resp: 625369

Ion Ratio Lower Upper

63 100

41 0.3 61.5 92.3#

62 18.5 53.9 80.9#



#53

Toluene

Concen: 0.039 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.019 min

Lab File: VL040880.D

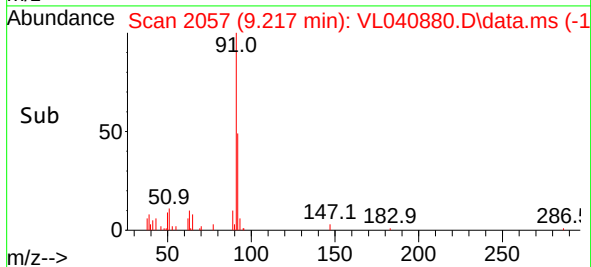
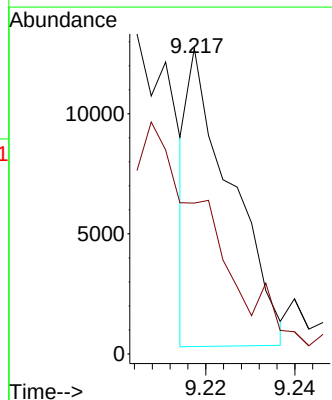
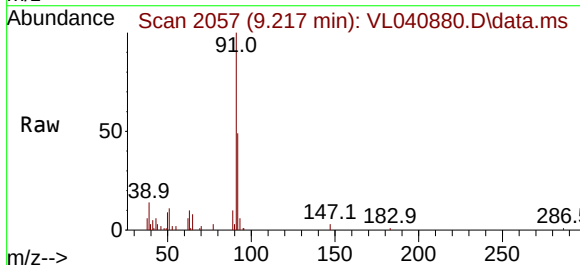
Acq: 15 Nov 2023 22:43

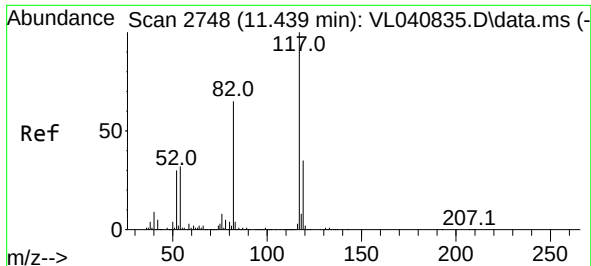
Tgt Ion: 91 Resp: 8327

Ion Ratio Lower Upper

91 100

92 0.0 49.4 74.2#

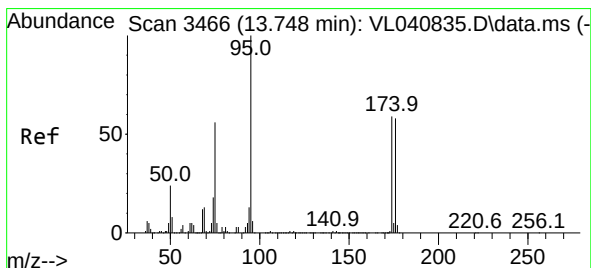
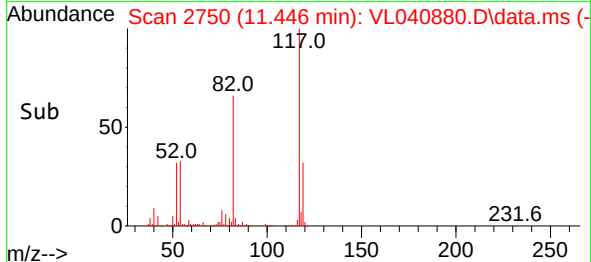
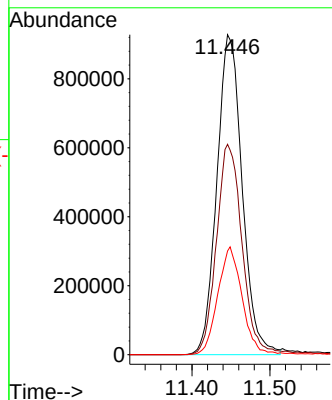
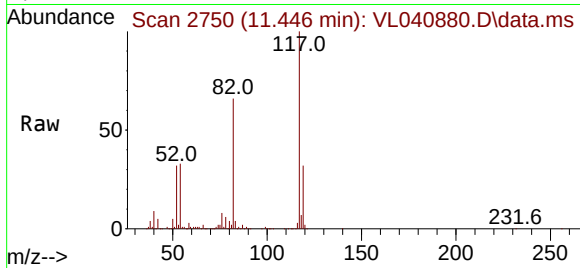




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4DL

Tgt Ion:117 Resp: 2096606
Ion Ratio Lower Upper
117 100
82 67.4 50.6 75.8
119 32.9 23.3 34.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.976 ppbv
RT: 13.754 min Scan# 3468
Delta R.T. 0.007 min
Lab File: VL040880.D
Acq: 15 Nov 2023 22:43

Tgt Ion: 95 Resp: 1637626
Ion Ratio Lower Upper
95 100
174 61.2 47.5 71.3
175 4.5 3.6 5.4

