

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040447.D
 Acq On : 16 May 2023 21:12
 Operator : SY/MD
 Sample : 02793-01DL 80X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Quant Time: May 17 05:17:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 17 05:12:40 2023
 Response via : Initial Calibration

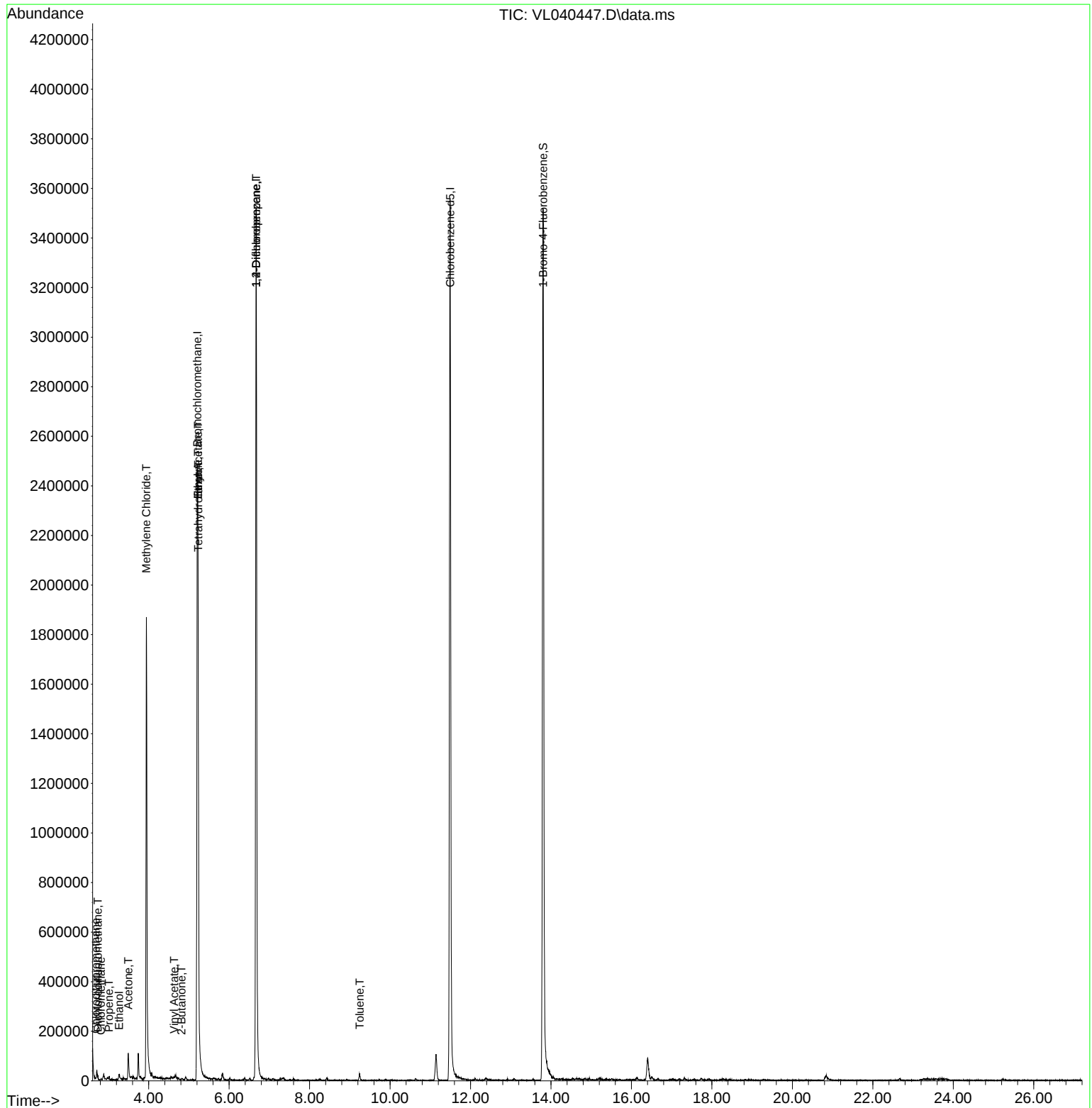
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

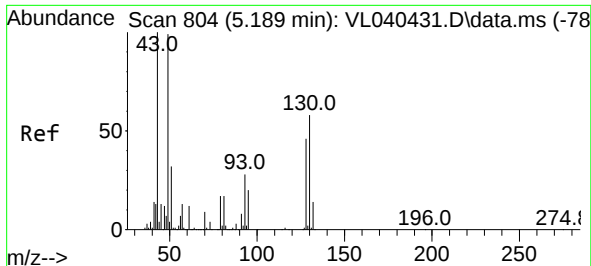
Internal Standards						
1) Bromochloromethane	5.208	49	1018188	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	2645454	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	2279741	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.806	95	1791220	9.772	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.739	85	8326	0.042	ppbv	94
3) Chlorodifluoromethane	2.681	51	7248	0.055	ppbv #	84
4) Chloromethane	2.816	50	3980	0.049	ppbv	88
9) Propene	3.015	41	2150	0.042	ppbv	99
13) Ethanol	3.266	45	17389	4.485	ppbv #	58
15) Acetone	3.494	43	108396	0.842	ppbv	94
20) Methylene Chloride	3.944	84	648942	11.310	ppbv	98
23) Vinyl Acetate	4.636	43	1456	0.041	ppbv #	82
25) Ethyl Acetate	5.227	43	409922	1.690	ppbv #	75
26) Hexane	5.227	57	615001	6.116	ppbv #	35
34) 2-Butanone	4.816	43	5813	0.041	ppbv #	83
39) 1,2-Dichloropropane	6.674	63	661993	7.865	ppbv #	23
41) Tetrahydrofuran	5.230	42	218637	2.798	ppbv #	48
53) Toluene	9.246	91	9398	0.041	ppbv #	20

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

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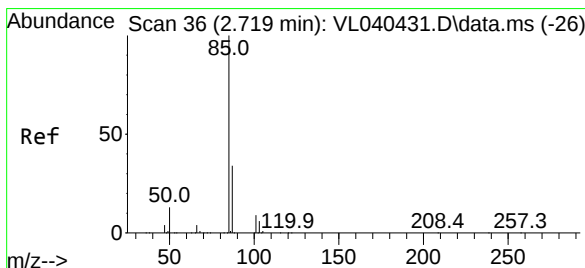
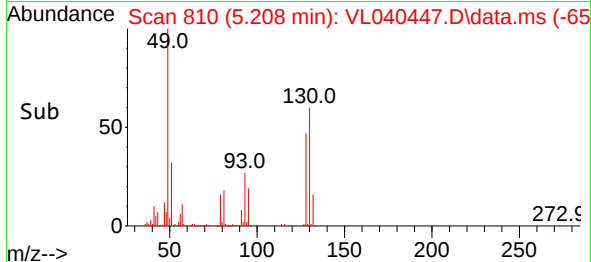
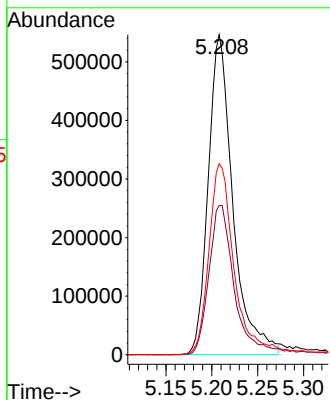
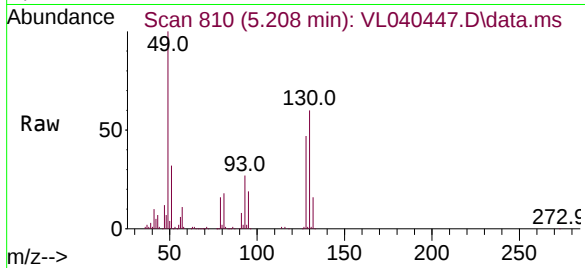




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL040447.D
 Acq: 16 May 2023 21:12

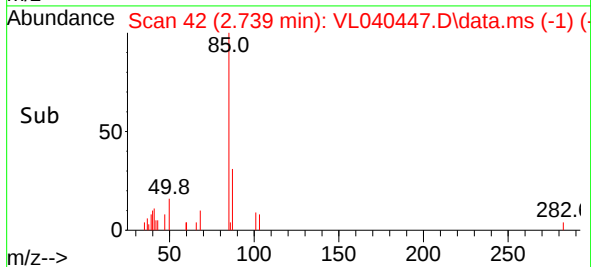
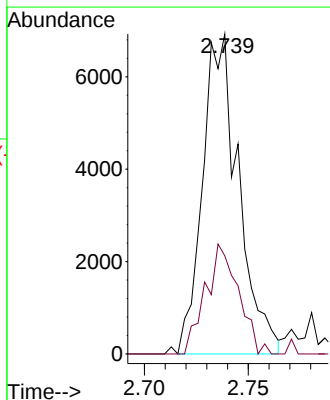
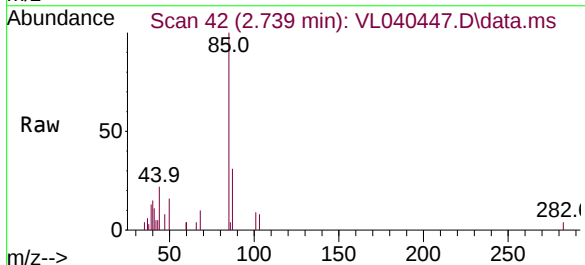
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

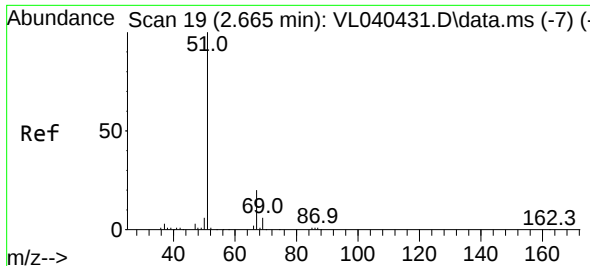
Tgt Ion: 49 Resp: 1018188
 Ion Ratio Lower Upper
 49 100
 128 49.6 24.3 72.8
 130 64.1 30.2 90.6



#2
 Dichlorodifluoromethane
 Concen: 0.042 ppbv
 RT: 2.739 min Scan# 42
 Delta R.T. 0.010 min
 Lab File: VL040447.D
 Acq: 16 May 2023 21:12

Tgt Ion: 85 Resp: 8326
 Ion Ratio Lower Upper
 85 100
 87 30.7 27.4 41.0

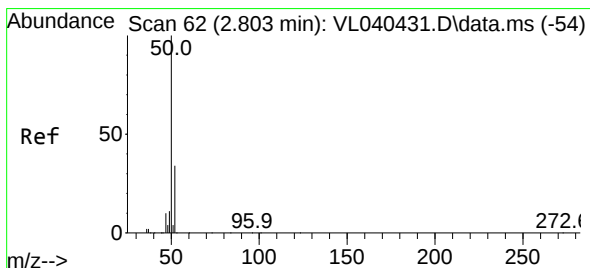
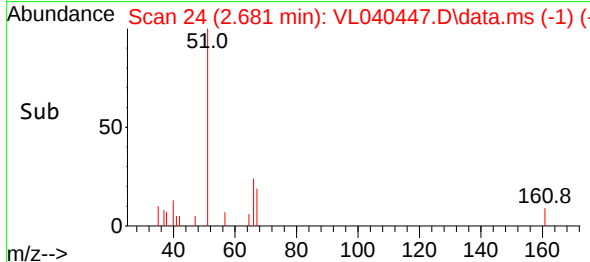
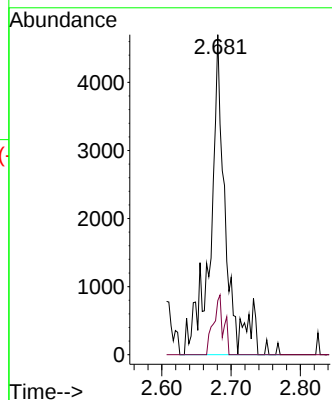
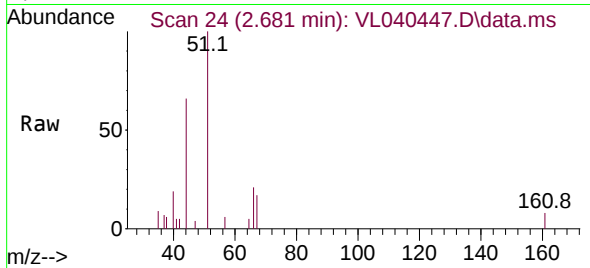




#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.007 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

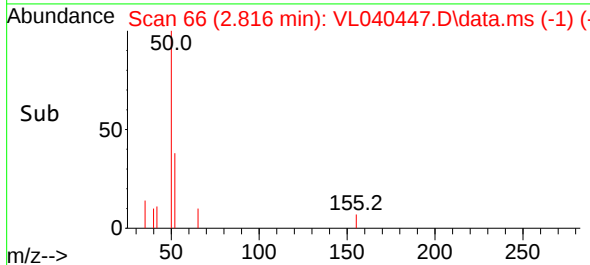
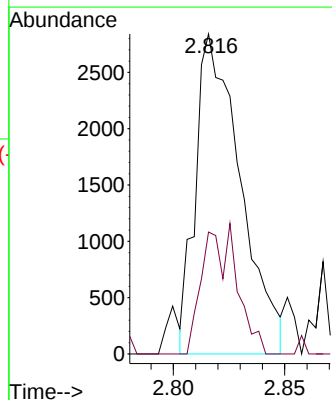
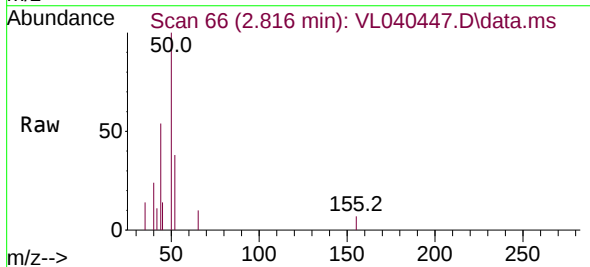
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

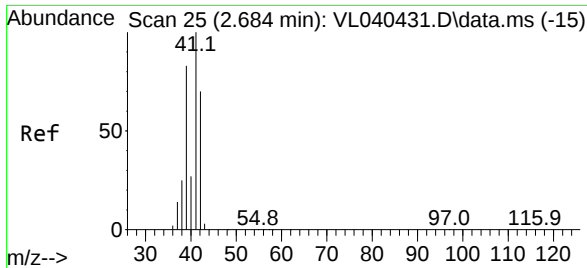
Tgt Ion: 51 Resp: 7248
Ion Ratio Lower Upper
51 100
67 12.2 15.8 23.6#



#4
Chloromethane
Concen: 0.049 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.003 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Tgt Ion: 50 Resp: 3980
Ion Ratio Lower Upper
50 100
52 41.3 27.6 41.4

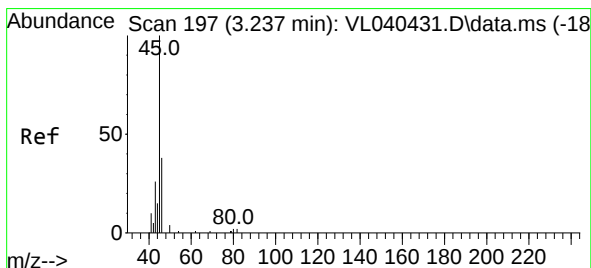
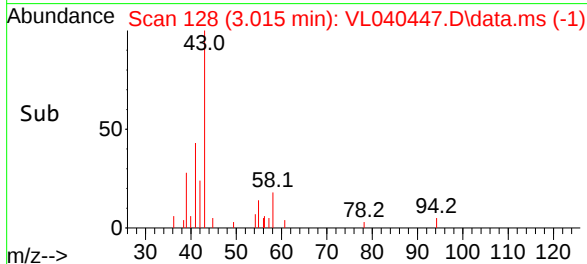
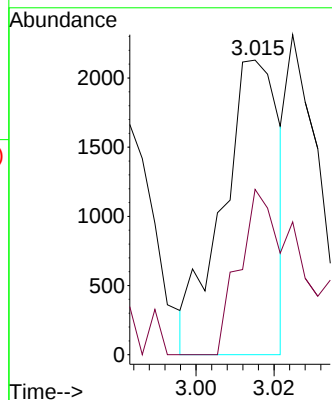
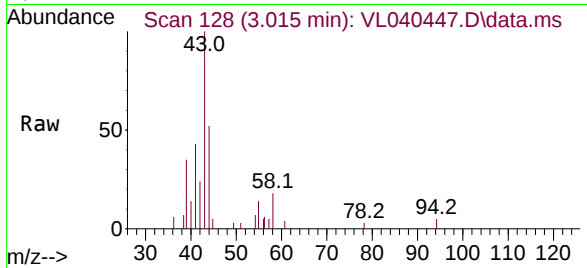




#9
 Propene
 Concen: 0.042 ppbv
 RT: 3.015 min Scan# 11
 Delta R.T. 0.322 min
 Lab File: VL040447.D
 Acq: 16 May 2023 21:12

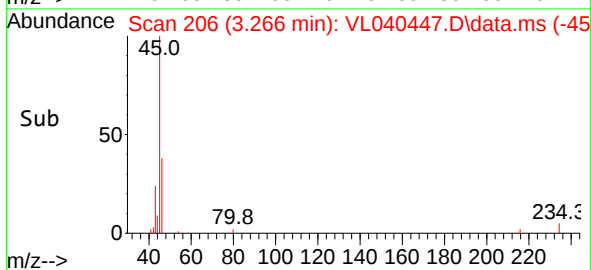
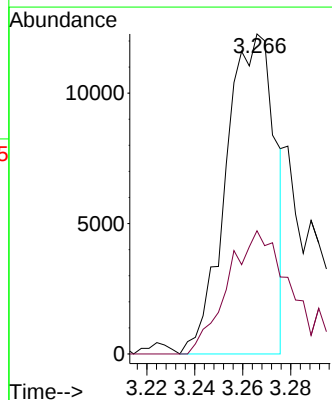
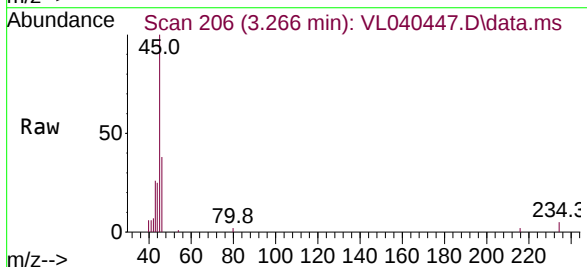
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

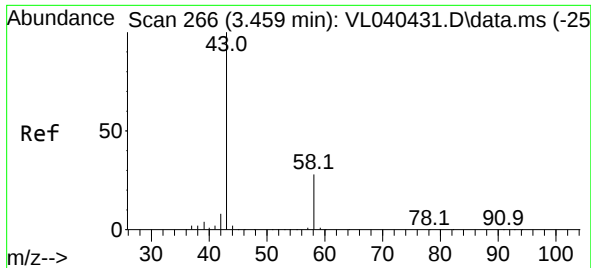
Tgt Ion: 41 Resp: 2150
 Ion Ratio Lower Upper
 41 100
 42 71.8 56.6 84.8



#13
 Ethanol
 Concen: 4.485 ppbv
 RT: 3.266 min Scan# 206
 Delta R.T. 0.016 min
 Lab File: VL040447.D
 Acq: 16 May 2023 21:12

Tgt Ion: 45 Resp: 17389
 Ion Ratio Lower Upper
 45 100
 46 56.7 13.2 52.8#





#15

Acetone

Concen: 0.842 ppbv

RT: 3.494 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL040447.D

Acq: 16 May 2023 21:12

Instrument :

MSVOA_L

ClientSampleId :

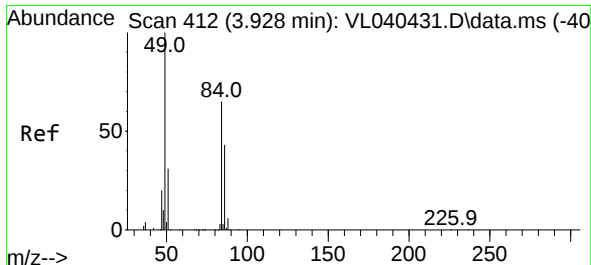
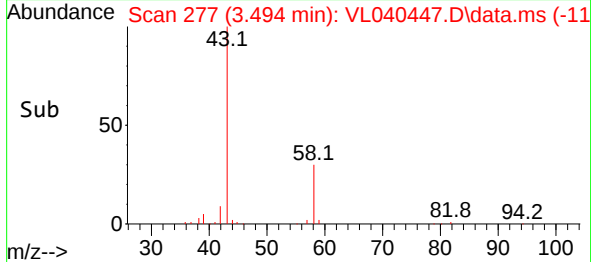
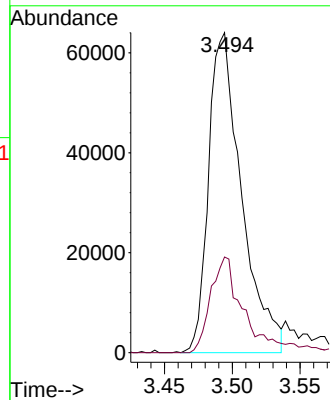
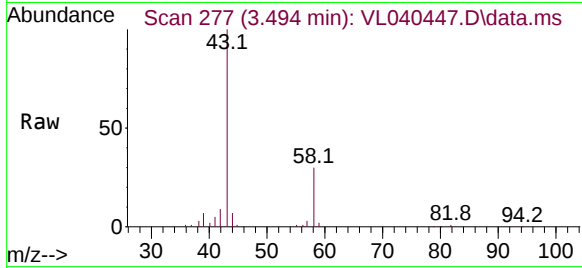
SG-1DL

Tgt Ion: 43 Resp: 108396

Ion Ratio Lower Upper

43 100

58 30.8 22.2 33.4



#20

Methylene Chloride

Concen: 11.310 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.007 min

Lab File: VL040447.D

Acq: 16 May 2023 21:12

Tgt Ion: 84 Resp: 648942

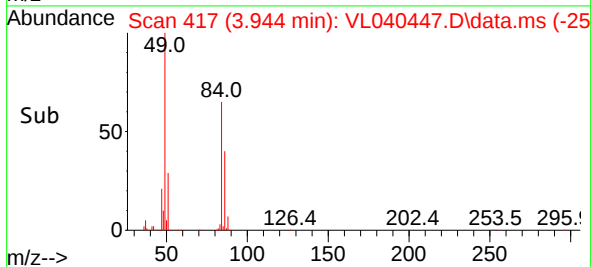
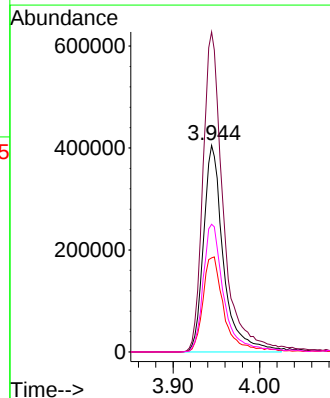
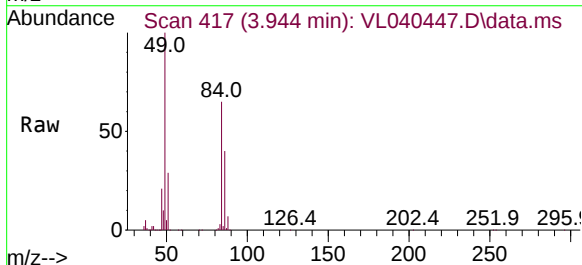
Ion Ratio Lower Upper

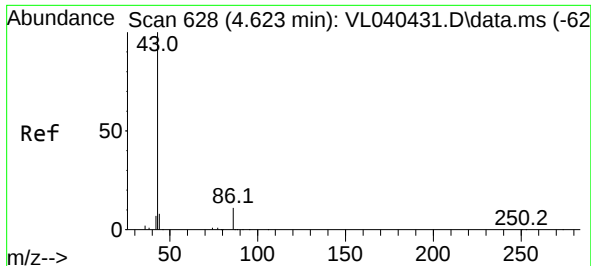
84 100

49 154.8 123.7 185.5

51 45.5 38.6 57.8

86 61.8 53.2 79.8

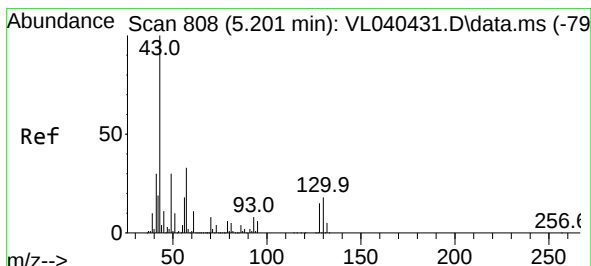
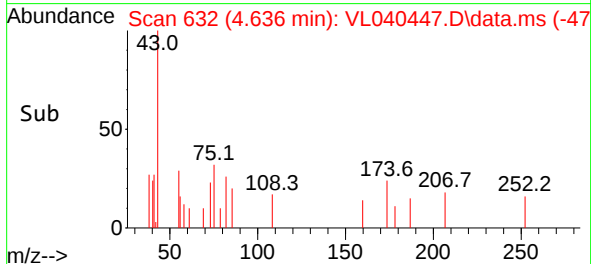
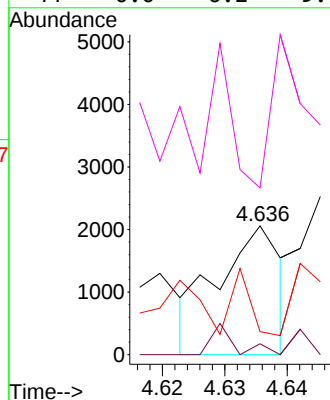
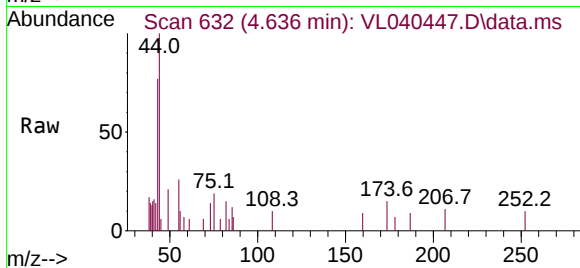




#23
 Vinyl Acetate
 Concen: 0.041 ppbv
 RT: 4.636 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL040447.D
 Acq: 16 May 2023 21:12

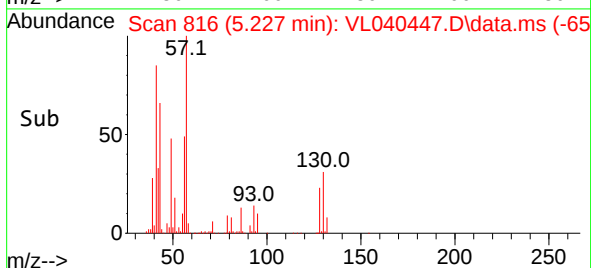
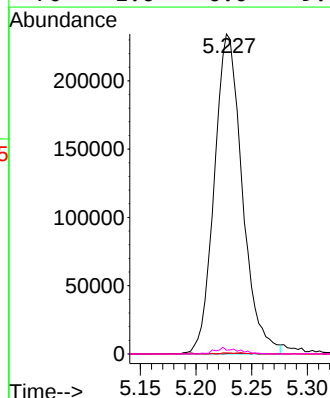
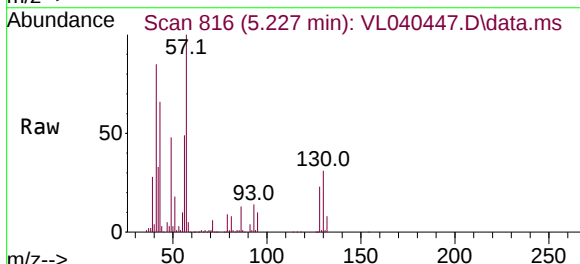
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

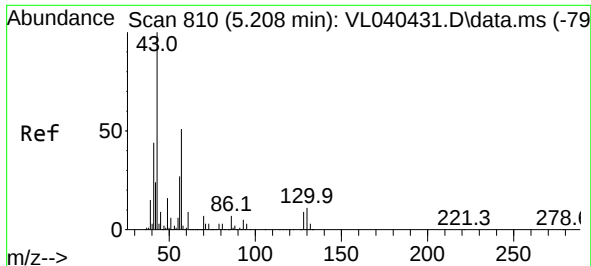
Tgt Ion:	43	Resp:	1456
Ion	Ratio	Lower	Upper
43	100		
86	15.2	5.4	8.2#
42	5.6	7.8	11.6#
44	0.0	6.2	9.4#



#25
 Ethyl Acetate
 Concen: 1.690 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.013 min
 Lab File: VL040447.D
 Acq: 16 May 2023 21:12

Tgt Ion:	43	Resp:	409922
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.6	13.0#
61	0.3	8.6	12.8#
70	1.6	6.0	9.0#



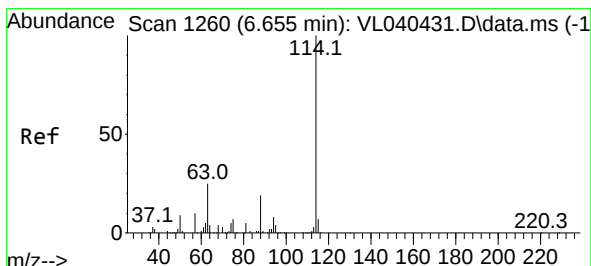
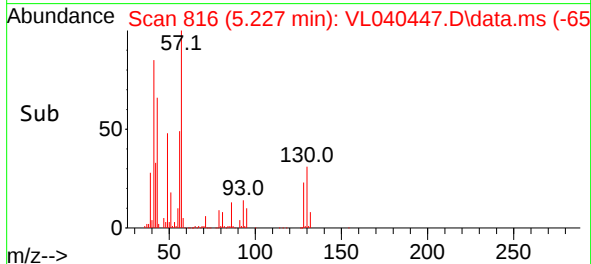
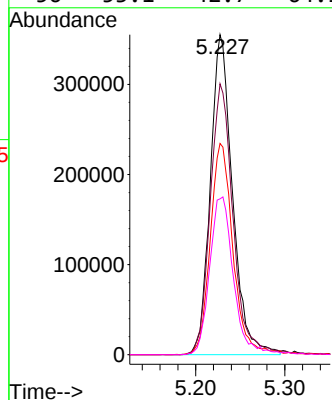
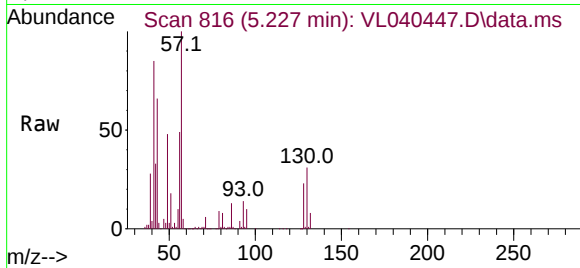


#26
Hexane
Concen: 6.116 ppbv
RT: 5.227 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Instrument :
MSVOA_1
ClientSampleId :
SG-1DL

Tgt Ion: 57 Resp: 615001

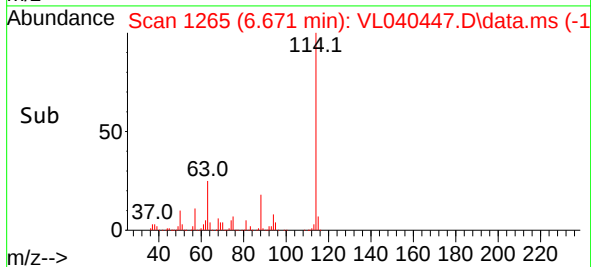
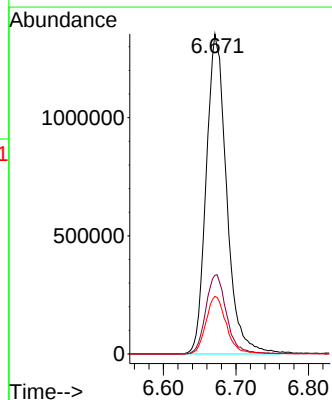
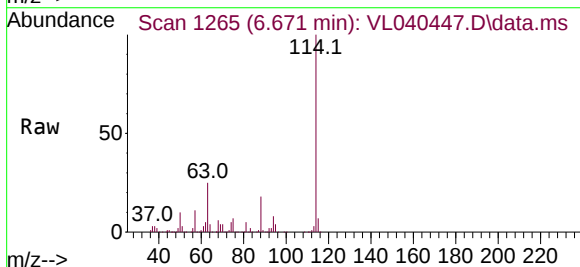
Ion	Ratio	Lower	Upper
57	100		
41	88.4	75.1	112.7
43	68.1	194.4	291.6#
56	53.1	42.7	64.1

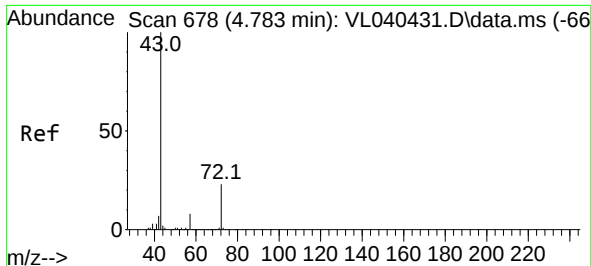


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Tgt Ion: 114 Resp: 2645454

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.1	14.6	22.0

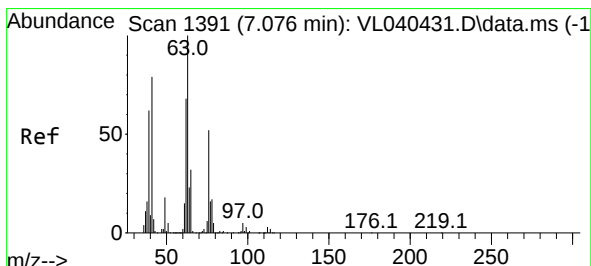
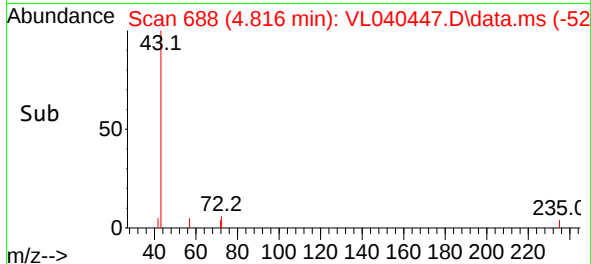
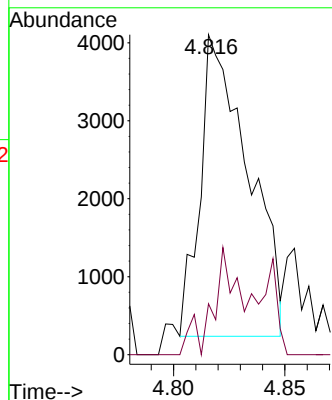
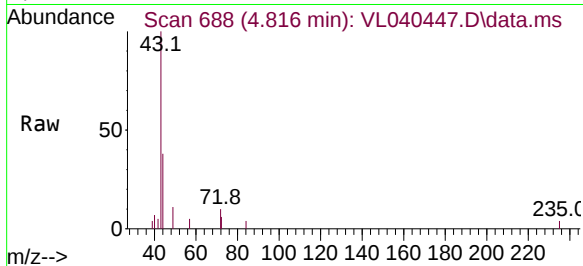




#34
2-Butanone
Concen: 0.041 ppbv
RT: 4.816 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

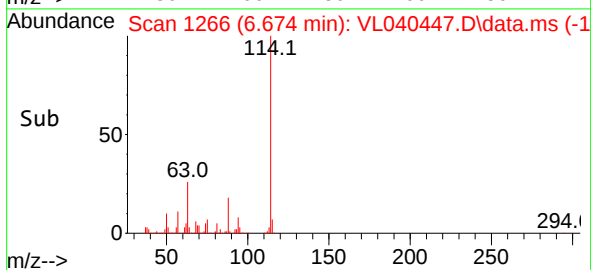
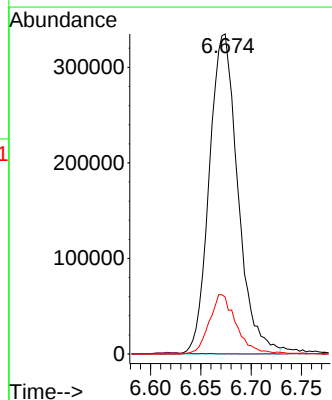
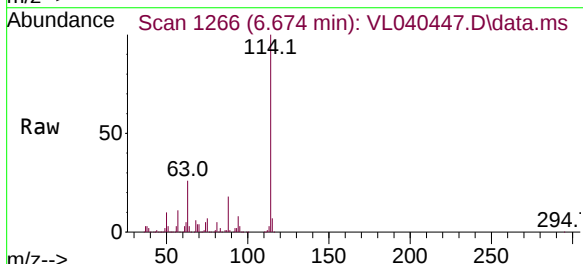
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

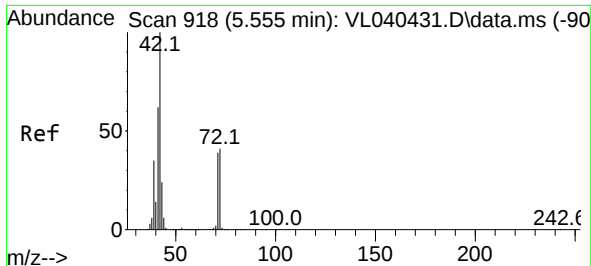
Tgt Ion: 43 Resp: 5813
Ion Ratio Lower Upper
43 100
72 31.1 18.3 27.5#



#39
1,2-Dichloropropane
Concen: 7.865 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.415 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Tgt Ion: 63 Resp: 661993
Ion Ratio Lower Upper
63 100
41 0.0 63.3 94.9#
62 17.8 54.2 81.4#

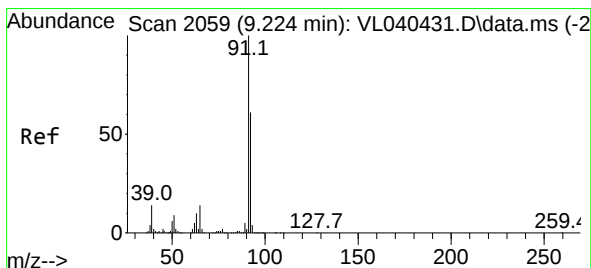
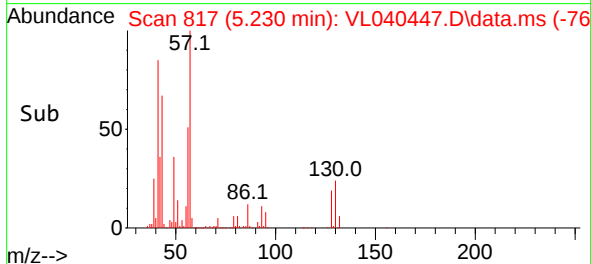
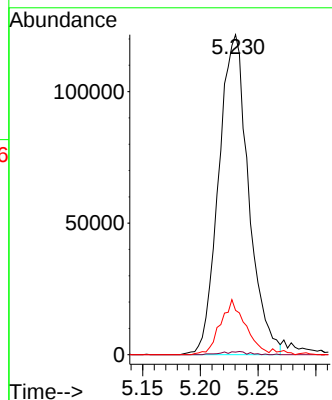
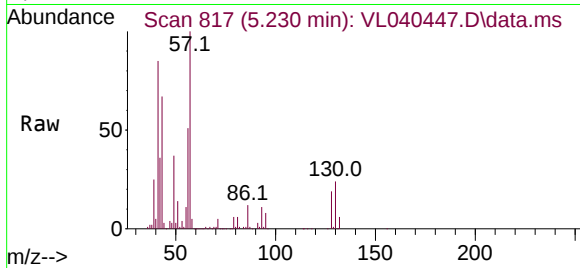




#41
Tetrahydrofuran
Concen: 2.798 ppbv
RT: 5.230 min Scan# 81
Delta R.T. -0.337 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

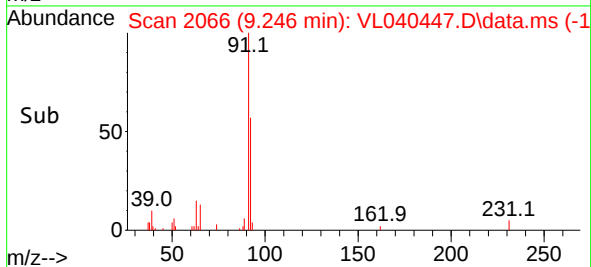
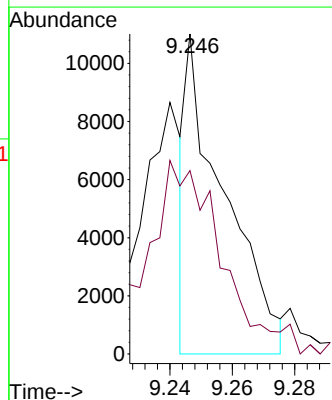
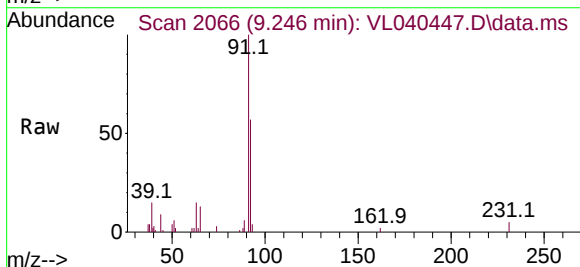
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

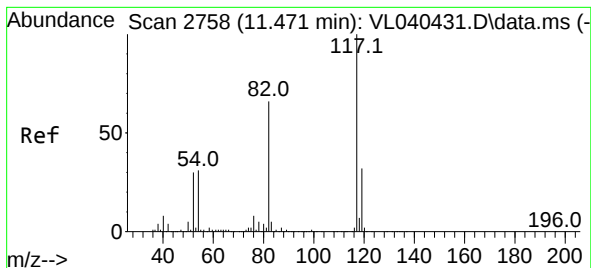
Tgt Ion: 42 Resp: 218637
Ion Ratio Lower Upper
42 100
72 0.9 33.0 49.4#
71 15.3 32.2 48.2#



#53
Toluene
Concen: 0.041 ppbv
RT: 9.246 min Scan# 2066
Delta R.T. 0.003 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Tgt Ion: 91 Resp: 9398
Ion Ratio Lower Upper
91 100
92 0.0 49.1 73.7#

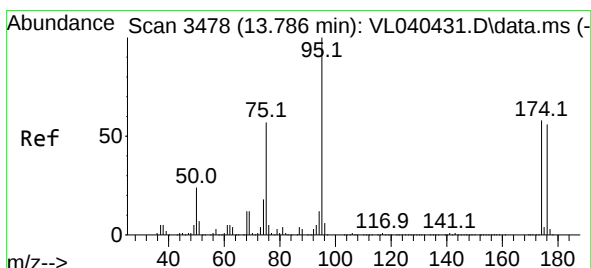
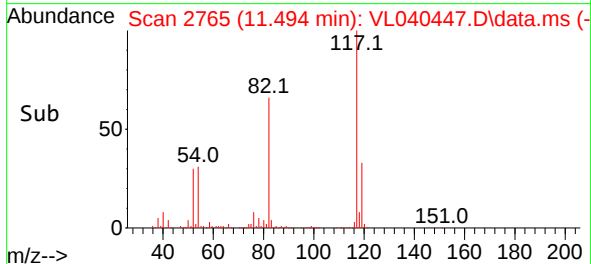
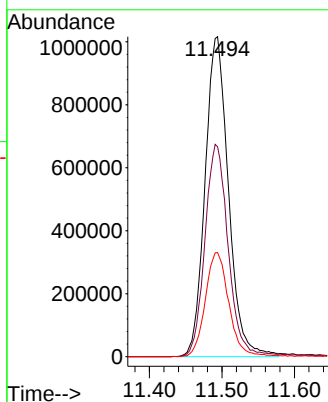
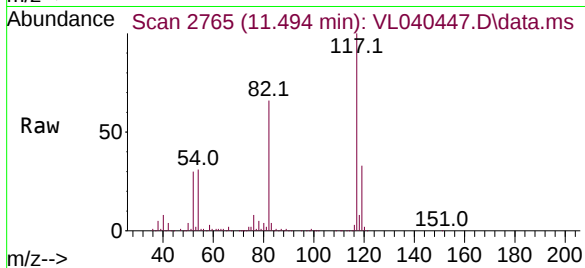




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Instrument :
MSVOA_1
ClientSampleId :
SG-1DL

Tgt Ion:117 Resp: 2279741
Ion Ratio Lower Upper
117 100
82 67.3 52.5 78.7
119 32.9 24.0 36.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.772 ppbv
RT: 13.806 min Scan# 3484
Delta R.T. 0.007 min
Lab File: VL040447.D
Acq: 16 May 2023 21:12

Tgt Ion: 95 Resp: 1791220
Ion Ratio Lower Upper
95 100
174 60.7 47.0 70.6
175 4.4 3.4 5.0

