

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042393.D
 Acq On : 18 Apr 2025 15:47
 Operator : SY/MD
 Sample : Q1726-06DUPDL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

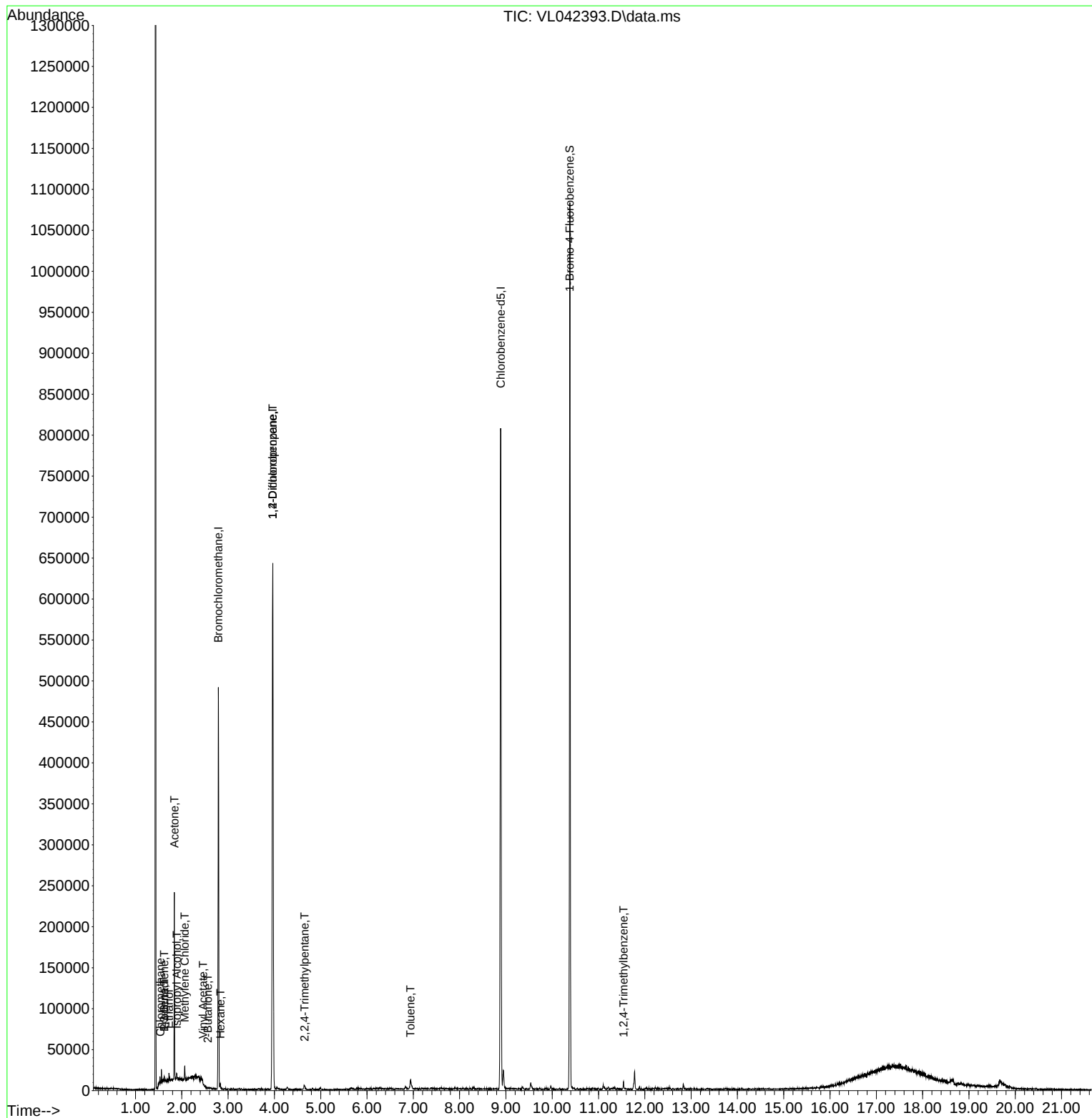
Internal Standards						
1) Bromochloromethane	2.790	49	123948	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	373006	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	318921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266367	10.164	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	353	0.041	ppbv #	61
9) Propene	1.622	41	1182	0.124	ppbv	99
13) Ethanol	1.722	45	3385	2.243	ppbv #	24
15) Acetone	1.839	43	96169	4.740	ppbv	100
16) 1,3-Butadiene	1.622	39	969	0.100	ppbv #	9
19) Isopropyl Alcohol	1.891	45	3389	0.301	ppbv #	1
20) Methylene Chloride	2.062	84	2513	0.316	ppbv #	79
23) Vinyl Acetate	2.457	43	1031	0.126	ppbv #	1
26) Hexane	2.833	57	1405	0.069	ppbv #	24
34) 2-Butanone	2.561	43	1152	0.039	ppbv #	72
39) 1,2-Dichloropropane	3.965	63	96794	6.456	ppbv #	22
44) 2,2,4-Trimethylpentane	4.652	57	3098	0.045	ppbv #	34
53) Toluene	6.940	91	6073	0.126	ppbv	90
74) 1,2,4-Trimethylbenzene	11.539	105	3019	0.047	ppbv #	65

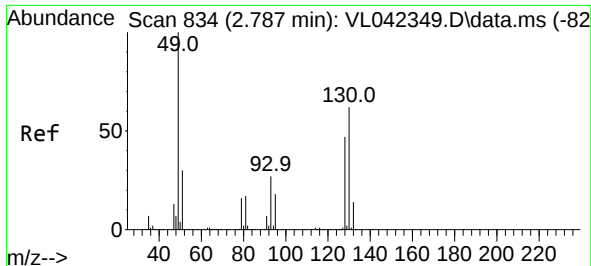
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IA-B2-3-03312025DL2DUP

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

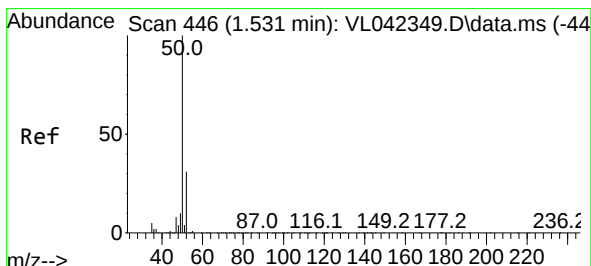
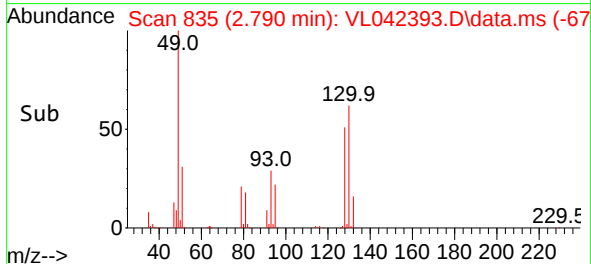
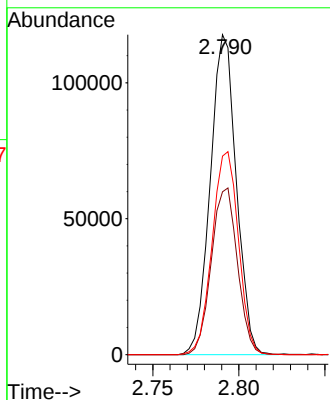
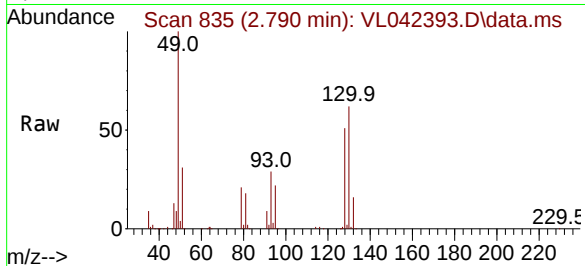




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

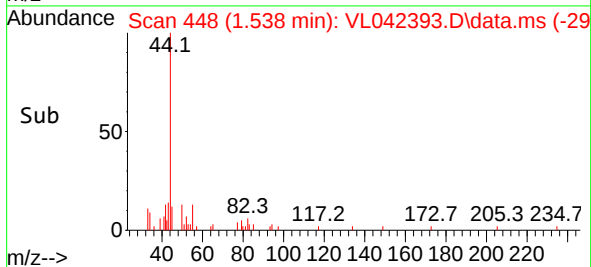
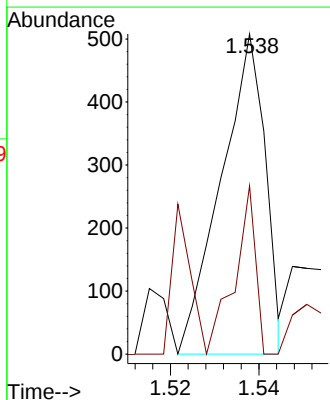
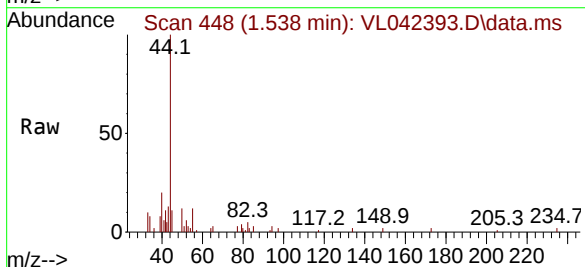
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

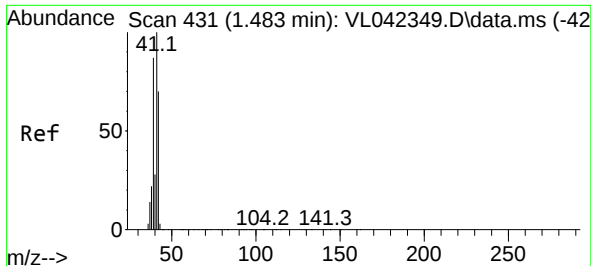
Tgt Ion: 49 Resp: 123948
Ion Ratio Lower Upper
49 100
128 52.3 22.8 68.4
130 64.1 29.3 88.0



#4
Chloromethane
Concen: 0.041 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 50 Resp: 353
Ion Ratio Lower Upper
50 100
52 52.6 24.7 37.1#





#9

Propene

Concen: 0.124 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Instrument :

MSVOA_L

ClientSampleId :

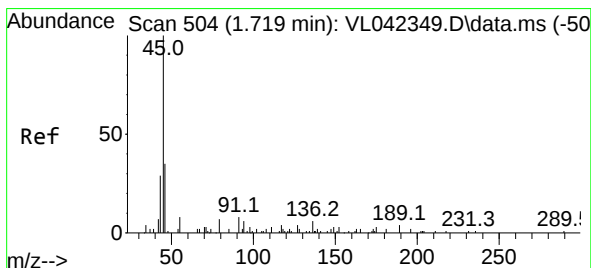
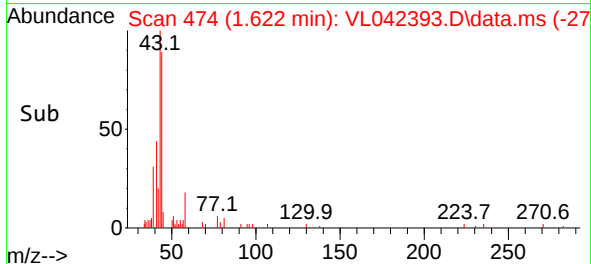
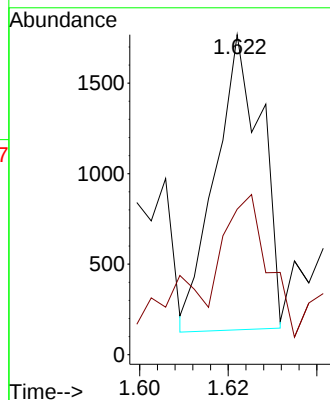
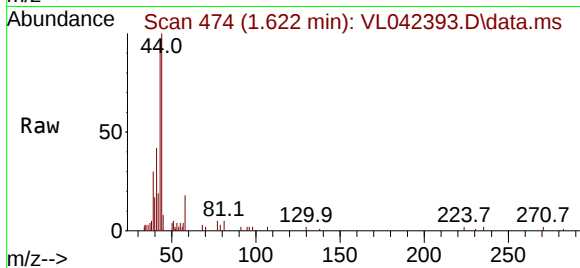
IA-B2-3-03312025DL2DUP

Tgt Ion: 41 Resp: 1182

Ion Ratio Lower Upper

41 100

42 71.3 56.2 84.4



#13

Ethanol

Concen: 2.243 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042393.D

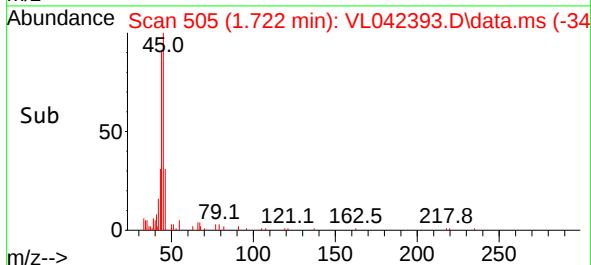
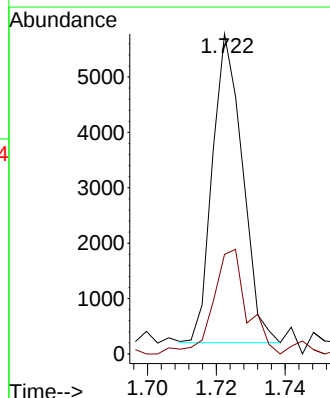
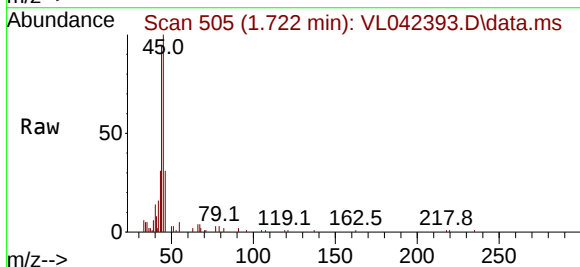
Acq: 18 Apr 2025 15:47

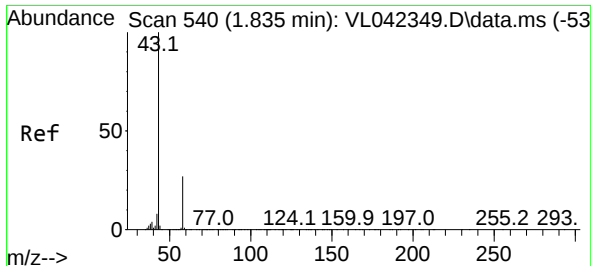
Tgt Ion: 45 Resp: 3385

Ion Ratio Lower Upper

45 100

46 0.0 21.9 87.7#

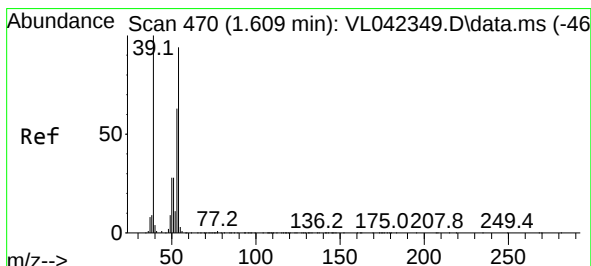
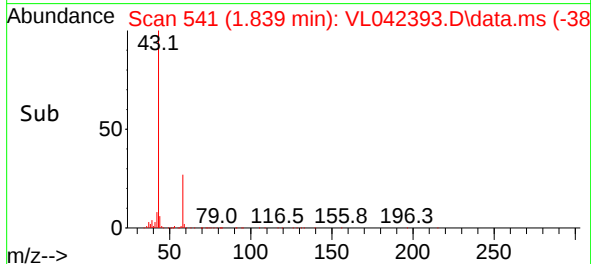
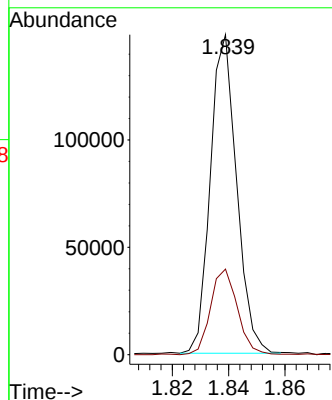
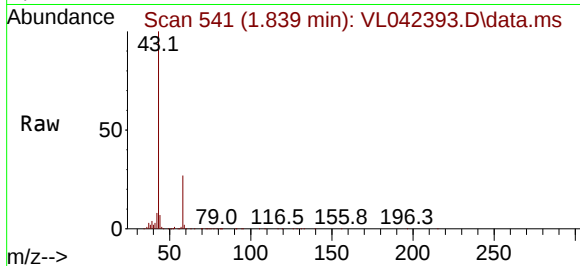




#15
Acetone
Concen: 4.740 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

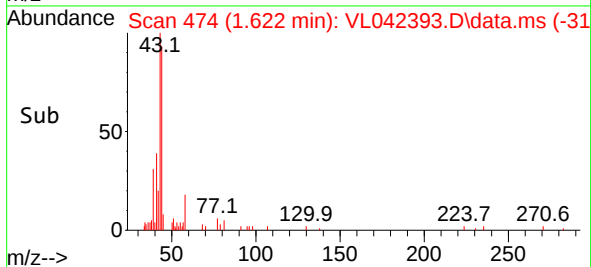
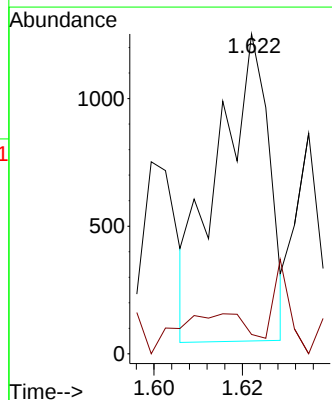
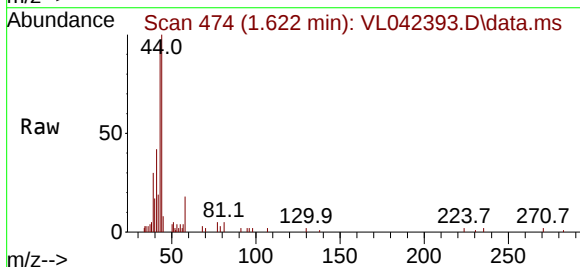
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

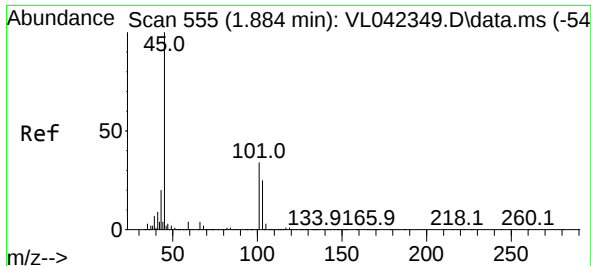
Tgt Ion: 43 Resp: 96169
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 39 Resp: 969
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#

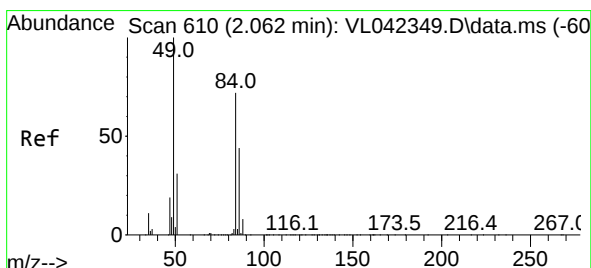
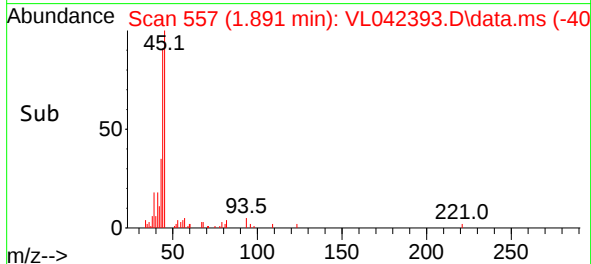
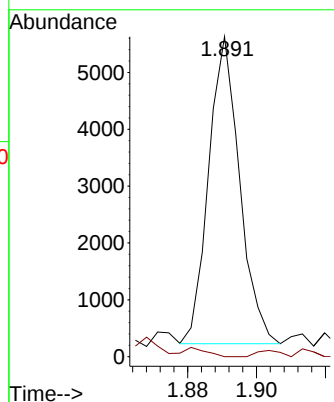
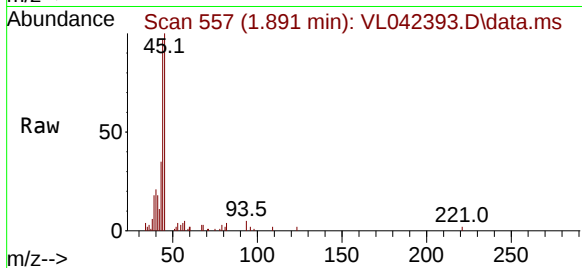




#19
Isopropyl Alcohol
Concen: 0.301 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

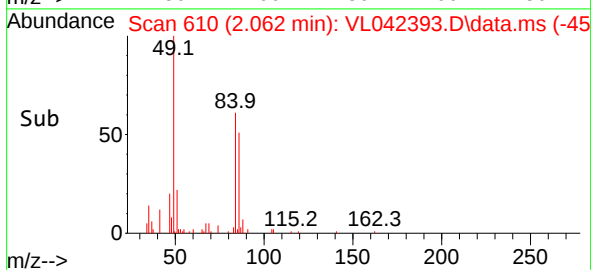
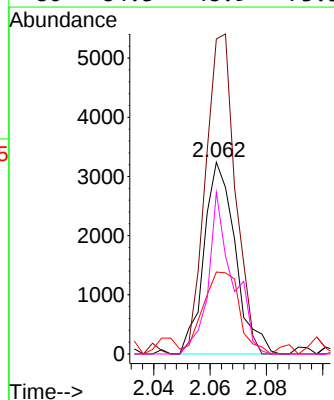
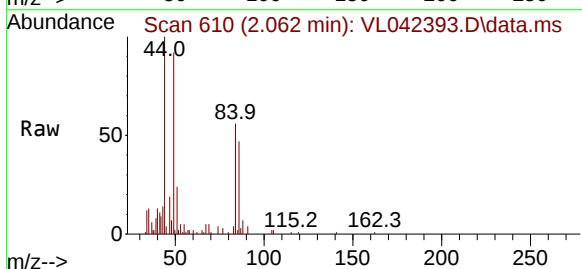
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

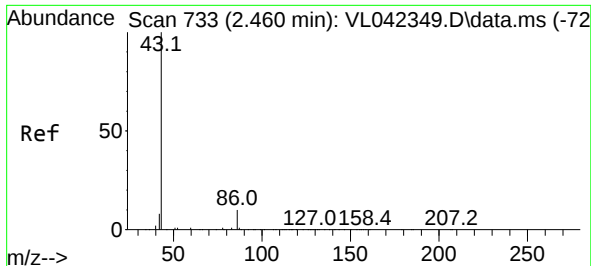
Tgt Ion: 45 Resp: 3389
Ion Ratio Lower Upper
45 100
58 791.4 34.5 51.7#



#20
Methylene Chloride
Concen: 0.316 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 84 Resp: 2513
Ion Ratio Lower Upper
84 100
49 168.3 111.6 167.4#
51 43.7 35.1 52.7
86 84.3 48.9 73.3#

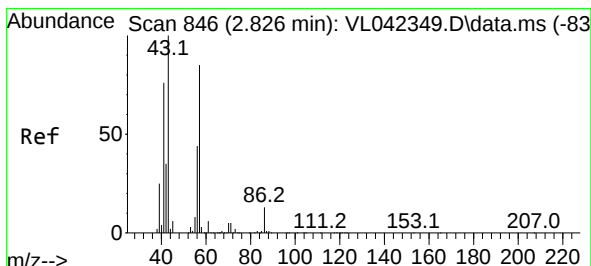
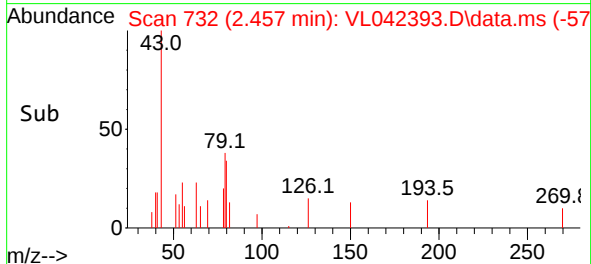
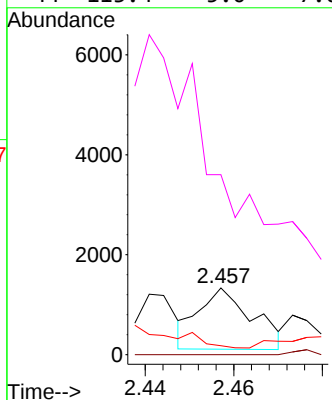
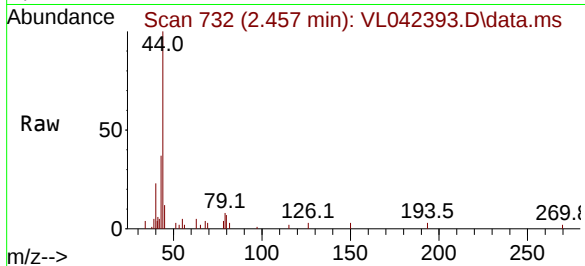




#23
Vinyl Acetate
Concen: 0.126 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

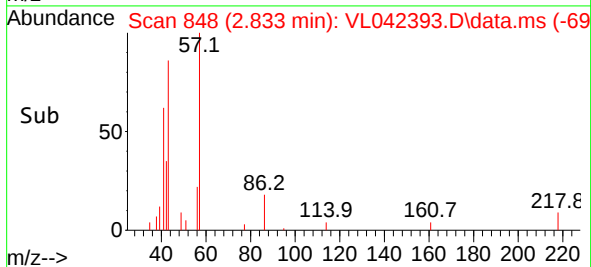
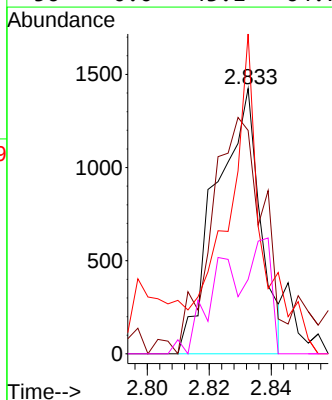
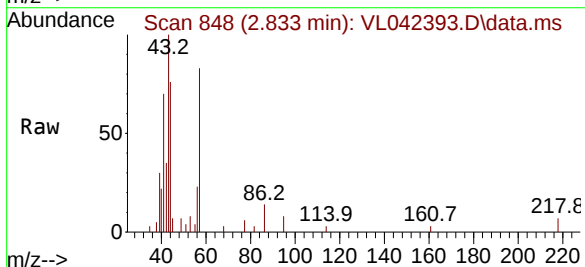
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-3-03312025DL2DUP

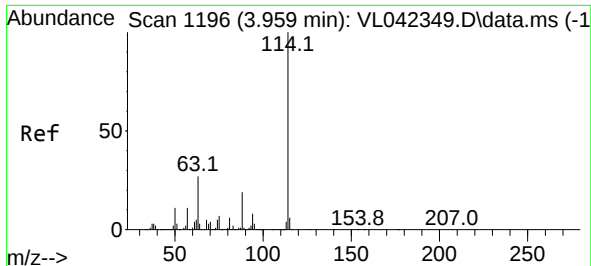
Tgt Ion:	43	Resp:	1031
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	113.4	5.0	7.6#



#26
Hexane
Concen: 0.069 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion:	57	Resp:	1405
Ion	Ratio	Lower	Upper
57	100		
41	136.4	77.9	116.9#
43	99.9	208.4	312.6#
56	0.0	43.1	64.7#

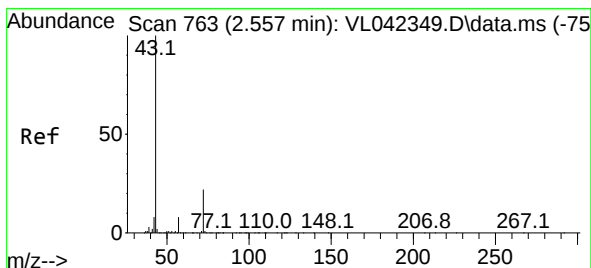
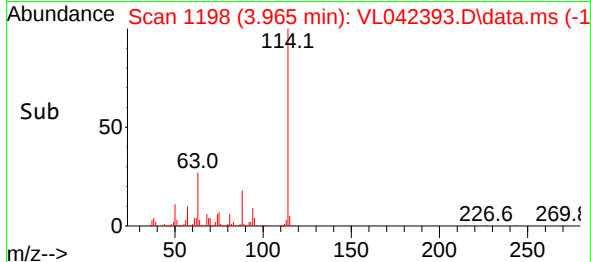
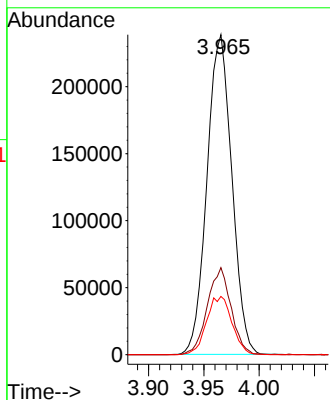
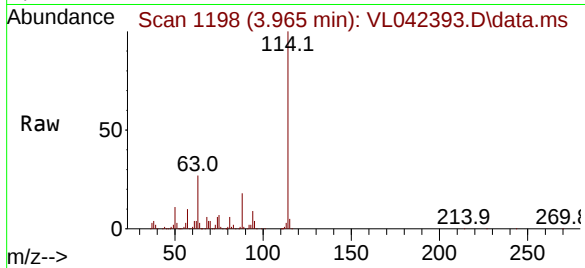




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1196
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

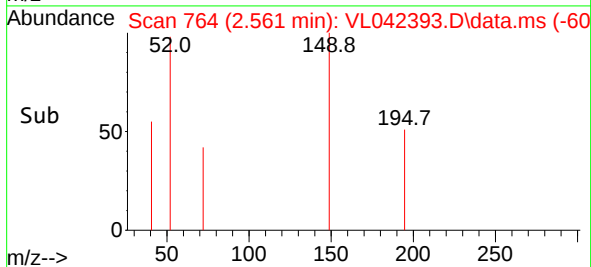
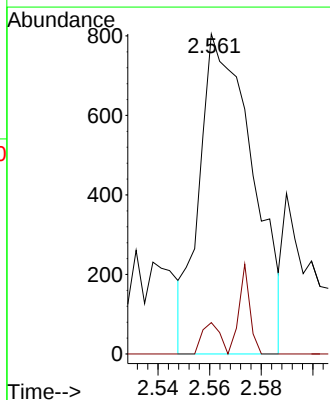
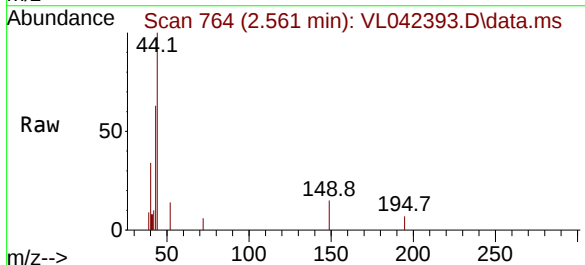
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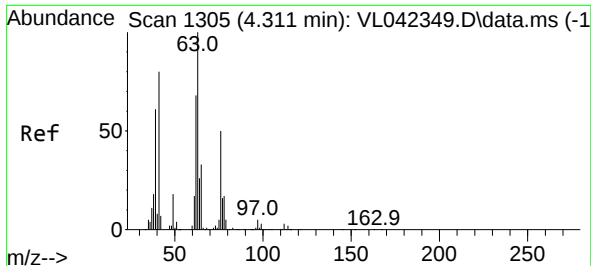
Tgt Ion:114 Resp: 373006
Ion Ratio Lower Upper
114 100
63 26.0 21.8 32.6
88 18.7 15.5 23.3



#34
2-Butanone
Concen: 0.039 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 43 Resp: 1152
Ion Ratio Lower Upper
43 100
72 9.0 18.2 27.2#





#39

1,2-Dichloropropane

Concen: 6.456 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

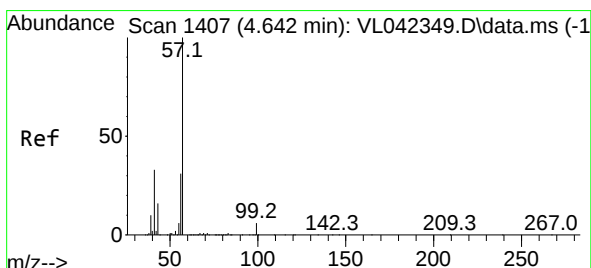
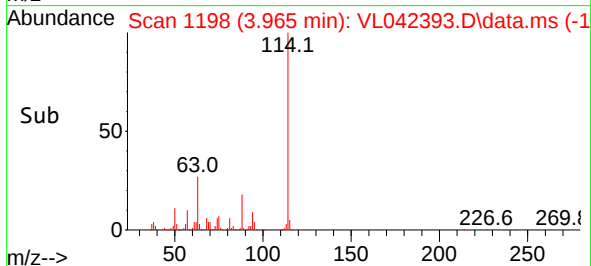
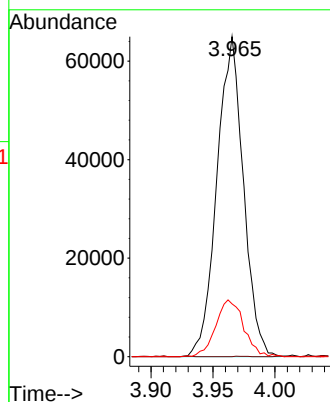
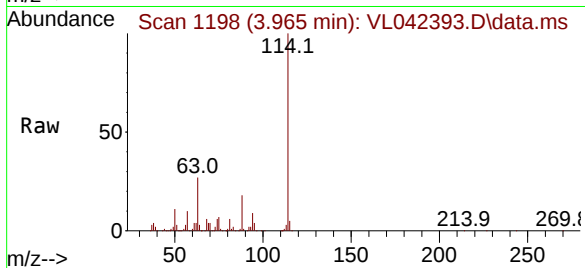
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025DL2DUP

Tgt Ion:	63	Resp:	96794
Ion	Ratio	Lower	Upper
63	100		
41	0.0	64.2	96.2#
62	16.5	54.3	81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.045 ppbv

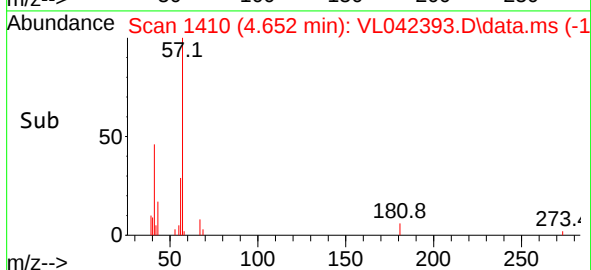
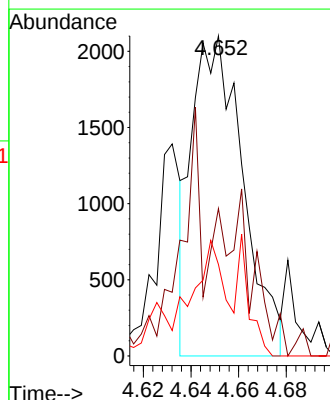
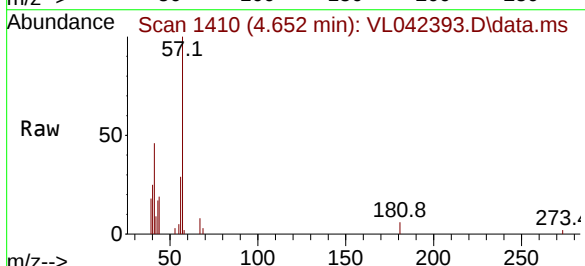
RT: 4.652 min Scan# 1410

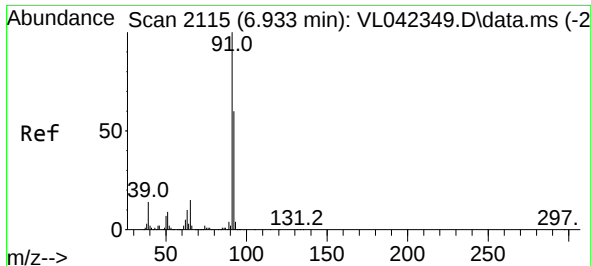
Delta R.T. 0.010 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Tgt Ion:	57	Resp:	3098
Ion	Ratio	Lower	Upper
57	100		
41	76.8	27.2	40.8#
56	0.0	25.7	38.5#

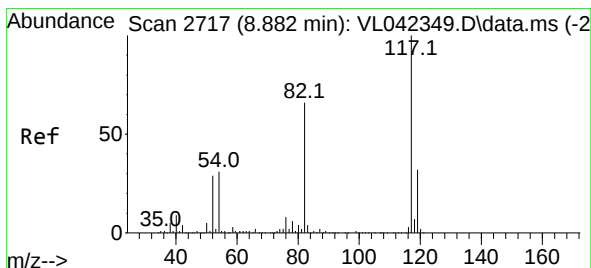
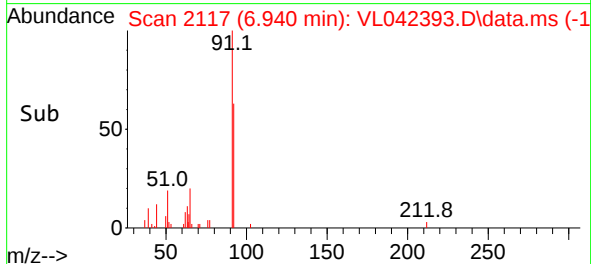
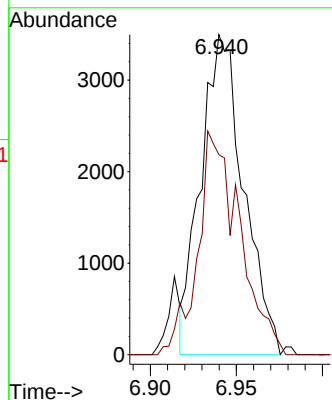
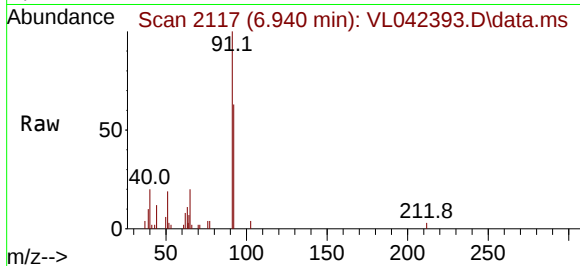




#53
Toluene
Concen: 0.126 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

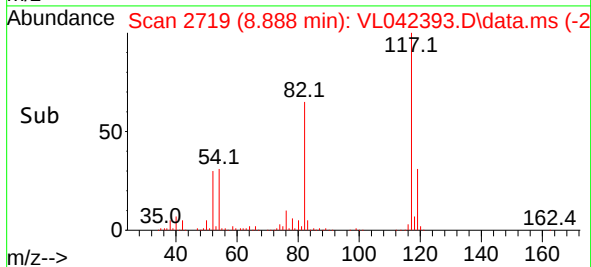
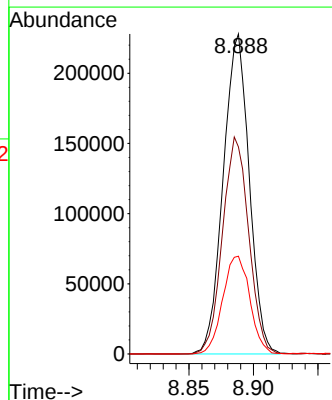
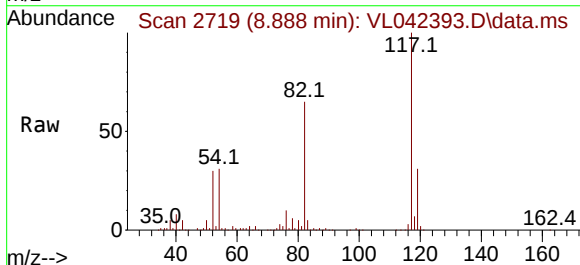
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

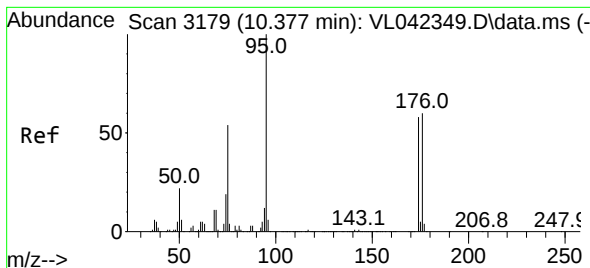
Tgt Ion: 91 Resp: 6073
Ion Ratio Lower Upper
91 100
92 67.8 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 117 Resp: 318921
Ion Ratio Lower Upper
117 100
82 68.4 57.8 86.6
119 32.1 25.2 37.8

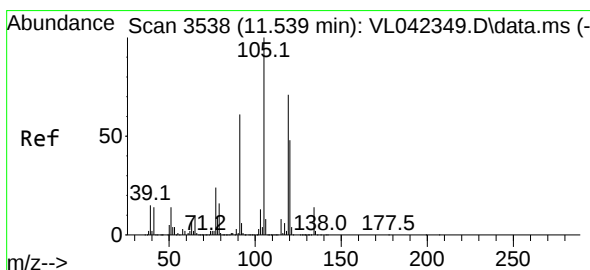
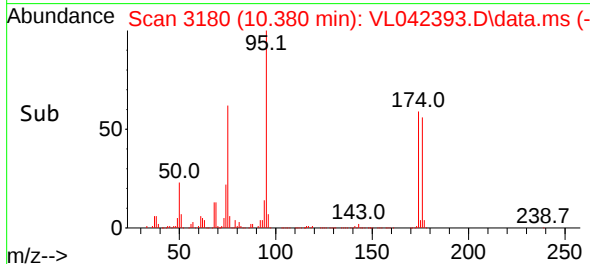
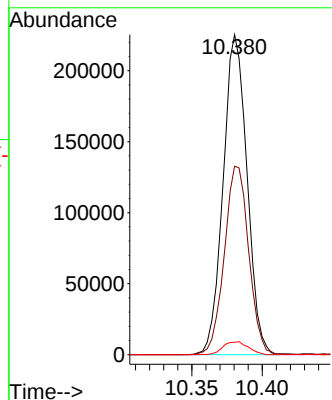
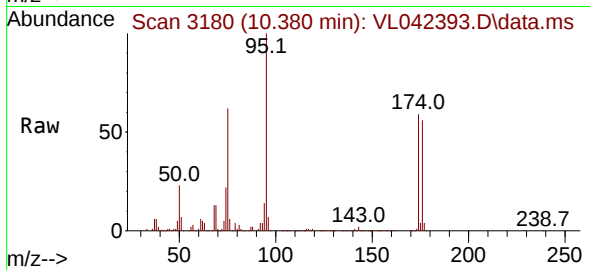




#68
1-Bromo-4-Fluorobenzene
Concen: 10.164 ppbv
RT: 10.380 min Scan# 3179
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Tgt Ion: 95 Resp: 266367
Ion Ratio Lower Upper
95 100
174 60.1 48.5 72.7
175 4.3 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 0.047 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 105 Resp: 3019
Ion Ratio Lower Upper
105 100
120 44.0 38.1 57.1
91 8.5 48.8 73.2#
77 19.0 19.0 28.4

