

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042965.D
 Acq On : 22 Sep 2025 19:49
 Operator : SY/MD
 Sample : Q3112-02DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

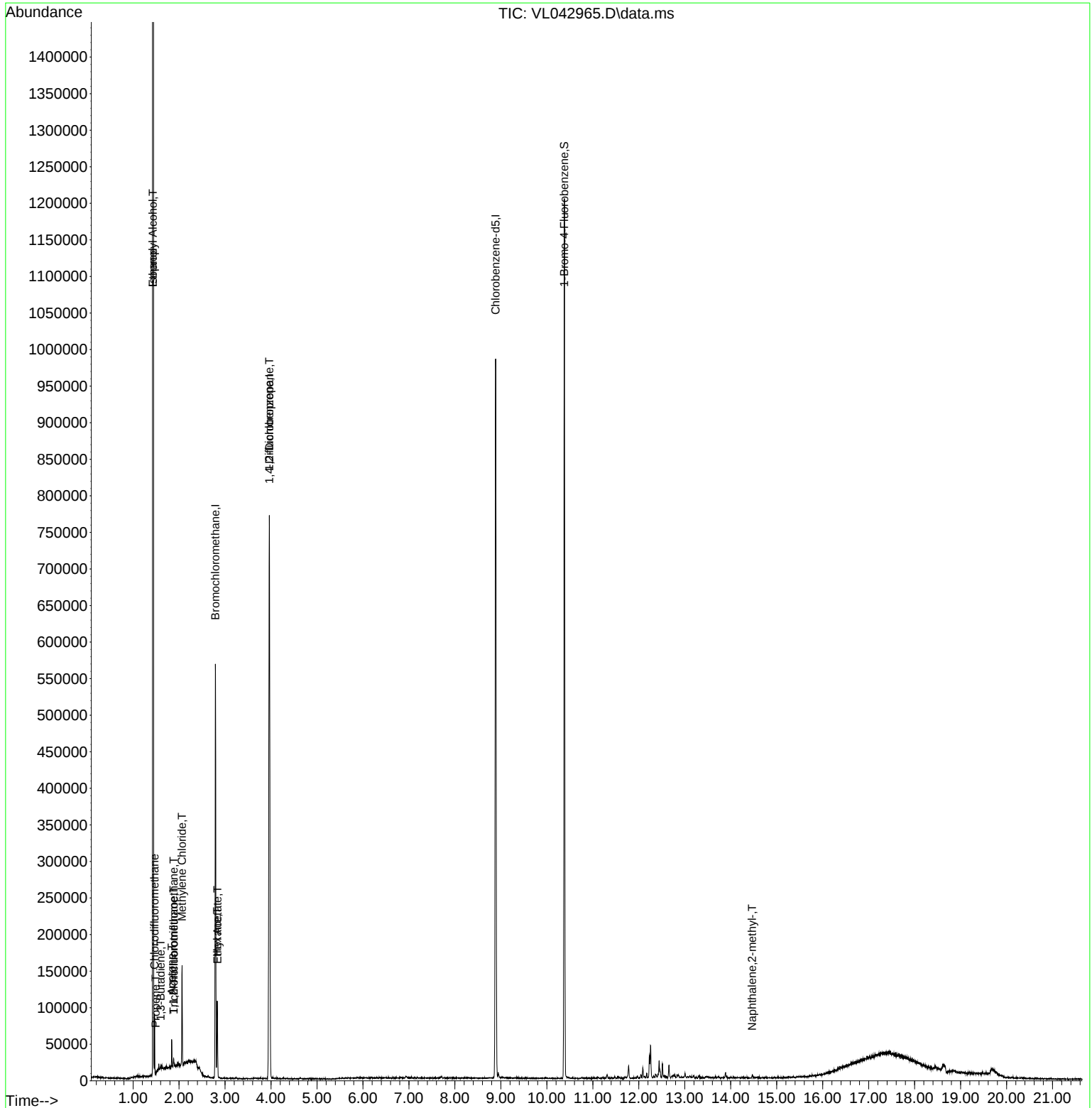
Quant Time: Sep 23 02:54:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

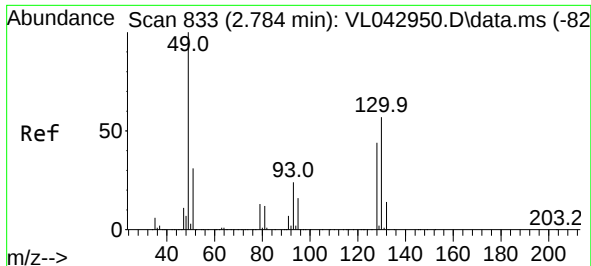
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	159259	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	479324	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	422943	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	307794	9.749	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	19179	0.718	ppbv #	62
9) Propene	1.492	41	684	0.059	ppbv #	14
11) Trichlorofluoromethane	1.881	101	2884	0.140	ppbv	99
12) 1,1,2-Trichlorotrifluo...	1.881	101	2884	0.172	ppbv #	16
13) Ethanol	1.431	45	361017	320.421	ppbv	90
15) Acetone	1.839	43	16126	0.777	ppbv	97
16) 1,3-Butadiene	1.602	39	997	0.102	ppbv #	11
19) Isopropyl Alcohol	1.431	45	361017	28.952	ppbv #	36
20) Methylene Chloride	2.065	84	20063	2.759	ppbv	96
25) Ethyl Acetate	2.832	43	17898	0.341	ppbv #	76
26) Hexane	2.829	57	25506	1.067	ppbv #	40
39) 1,2-Dichloropropane	3.962	63	117589	7.156	ppbv #	25
80) Naphthalene,2-methyl-	14.468	142	1397	0.083	ppbv #	71

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

Quant Time: Sep 23 02:54:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

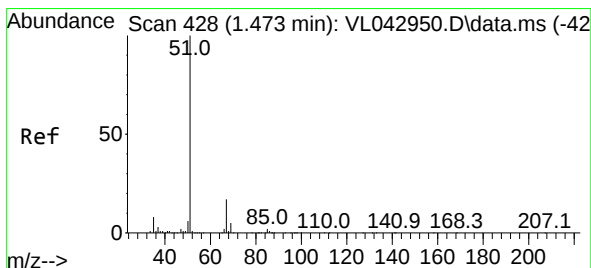
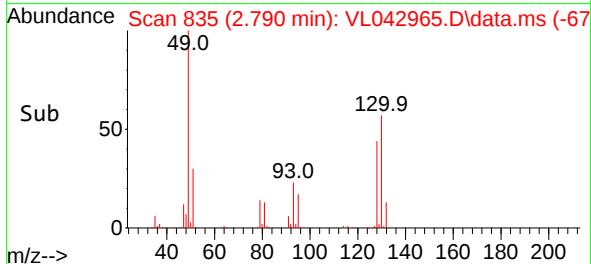
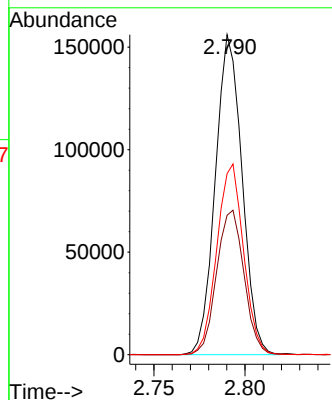
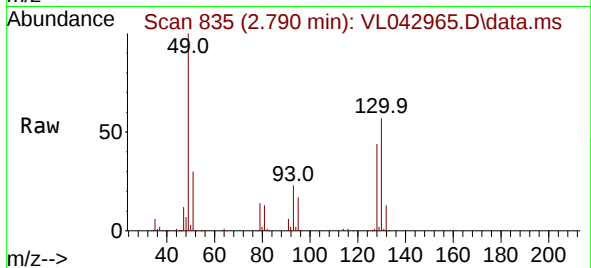




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

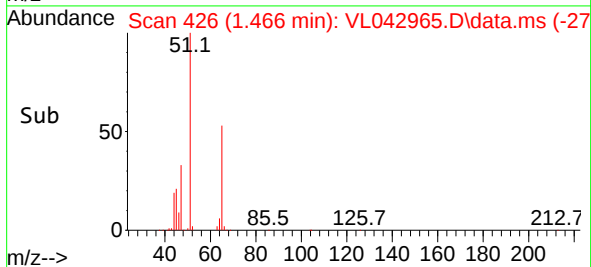
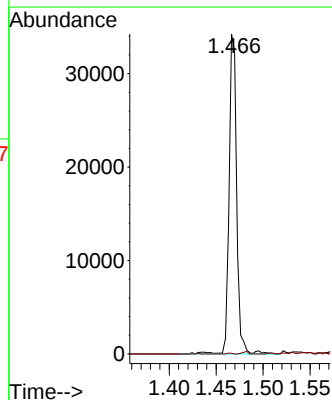
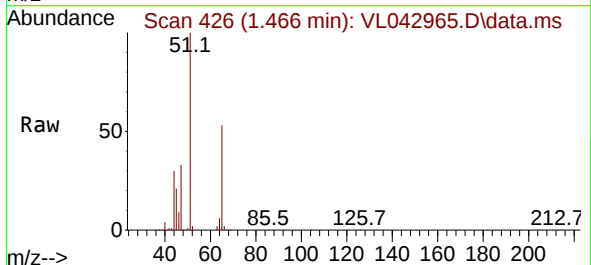
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

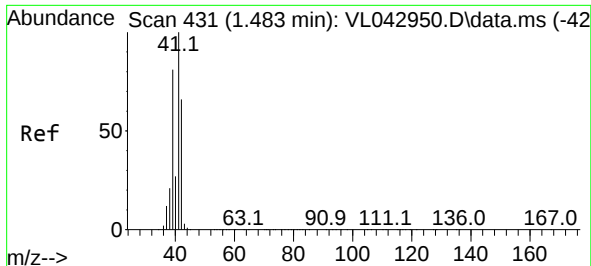
Tgt Ion: 49 Resp: 159259
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.8
130 59.8 29.1 87.3



#3
Chlorodifluoromethane
Concen: 0.718 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.007 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

Tgt Ion: 51 Resp: 19179
Ion Ratio Lower Upper
51 100
67 0.7 13.8 20.8#





#9

Propene

Concen: 0.059 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042965.D

Acq: 22 Sep 2025 19:49

Instrument :

MSVOA_L

ClientSampleId :

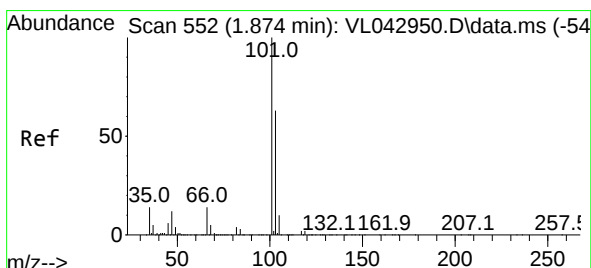
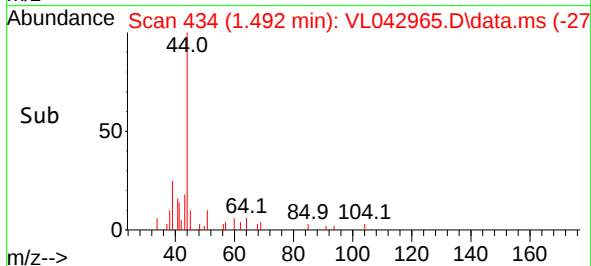
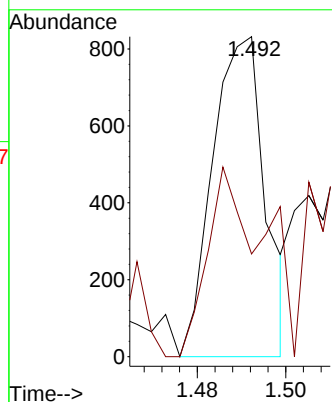
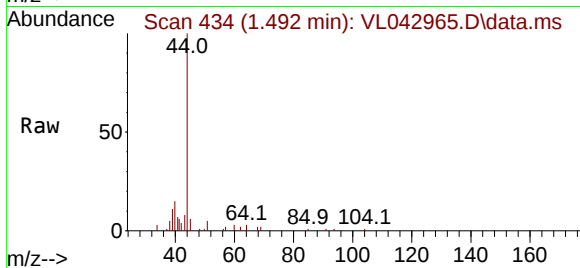
SV2DL

Tgt Ion: 41 Resp: 684

Ion Ratio Lower Upper

41 100

42 0.0 57.4 86.2#



#11

Trichlorofluoromethane

Concen: 0.140 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.006 min

Lab File: VL042965.D

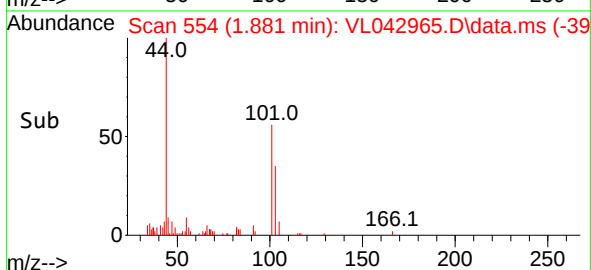
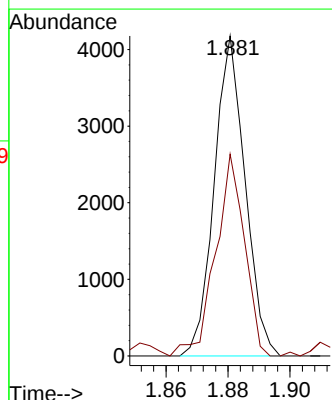
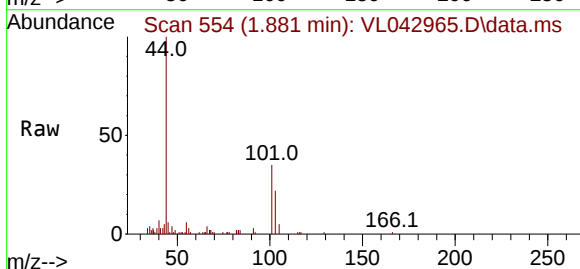
Acq: 22 Sep 2025 19:49

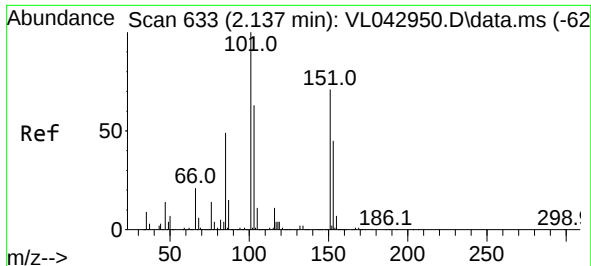
Tgt Ion: 101 Resp: 2884

Ion Ratio Lower Upper

101 100

103 63.0 50.1 75.1

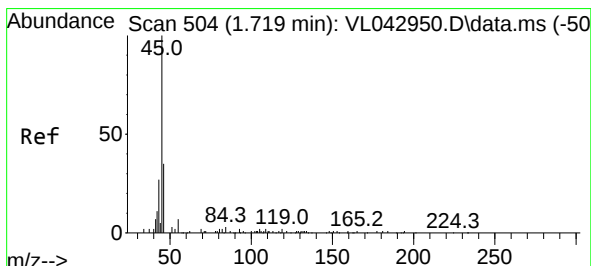
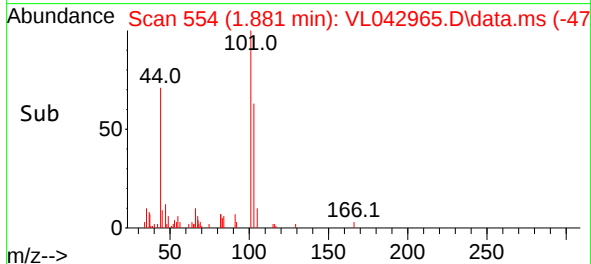
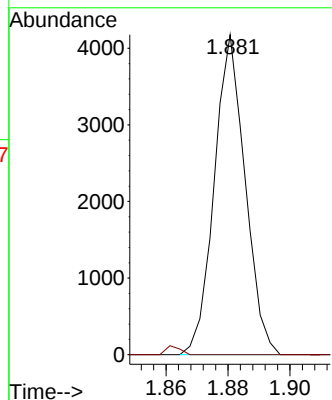
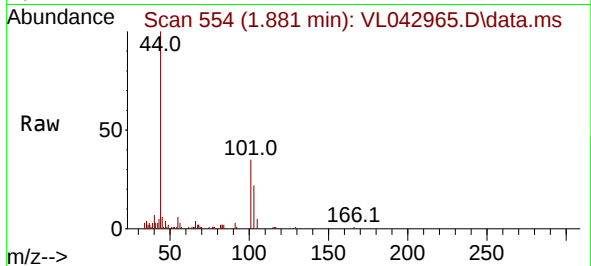




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.172 ppbv
RT: 1.881 min Scan# 51
Delta R.T. -0.256 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

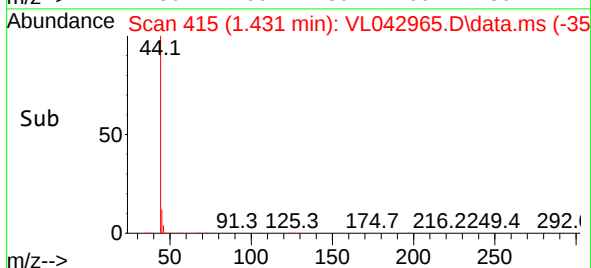
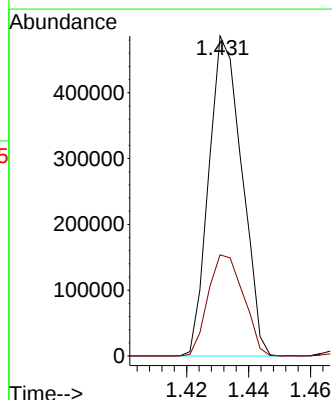
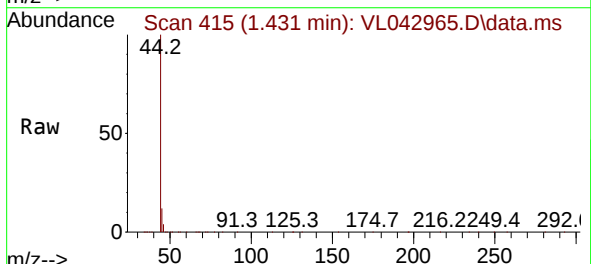
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

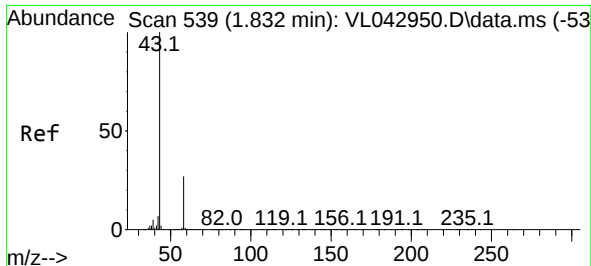
Tgt Ion:101 Resp: 2884
Ion Ratio Lower Upper
101 100
151 1.3 55.7 83.5#



#13
Ethanol
Concen: 320.421 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.288 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

Tgt Ion: 45 Resp: 361017
Ion Ratio Lower Upper
45 100
46 34.4 16.2 64.6





#15

Acetone

Concen: 0.777 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042965.D

Acq: 22 Sep 2025 19:49

Instrument :

MSVOA_L

ClientSampleId :

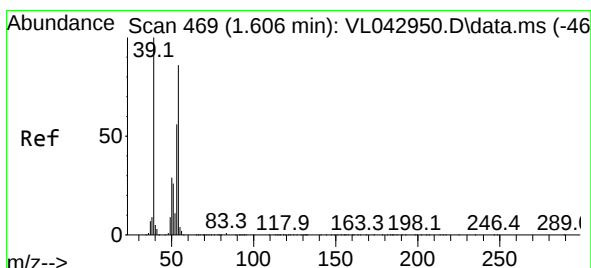
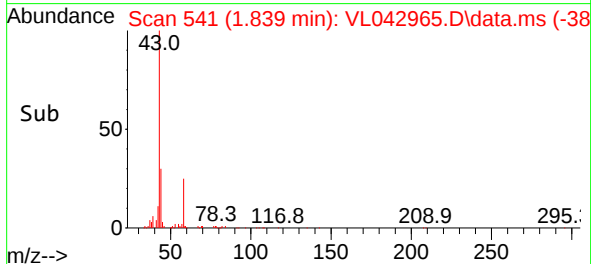
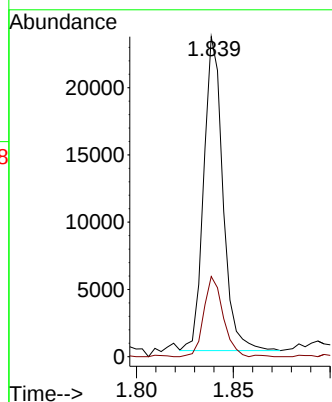
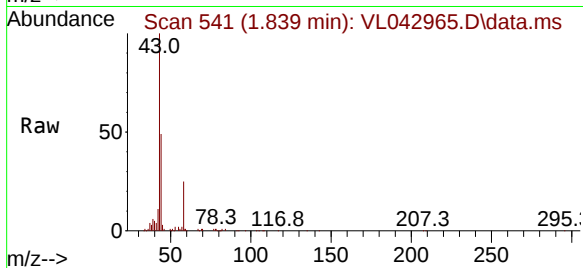
SV2DL

Tgt Ion: 43 Resp: 16126

Ion Ratio Lower Upper

43 100

58 26.2 22.3 33.5



#16

1,3-Butadiene

Concen: 0.102 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042965.D

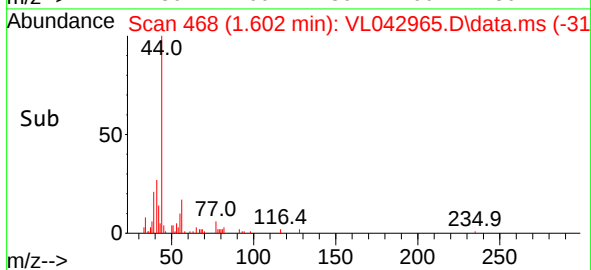
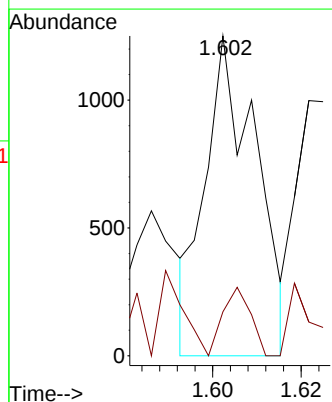
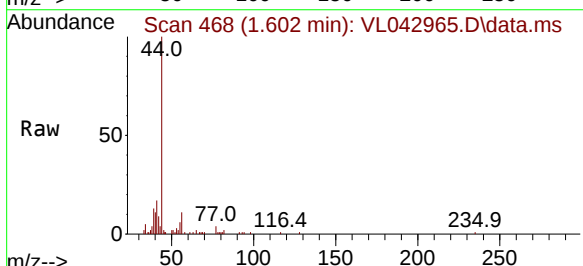
Acq: 22 Sep 2025 19:49

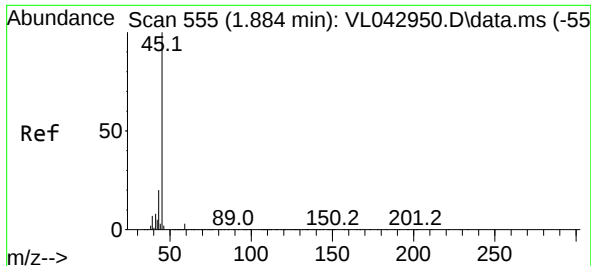
Tgt Ion: 39 Resp: 997

Ion Ratio Lower Upper

39 100

54 0.0 60.8 91.2#





#19

Isopropyl Alcohol

Concen: 28.952 ppbv

RT: 1.431 min Scan# 415

Delta R.T. -0.453 min

Lab File: VL042965.D

Acq: 22 Sep 2025 19:49

Instrument :

MSVOA_L

ClientSampleId :

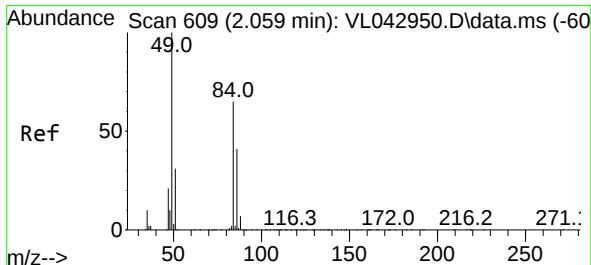
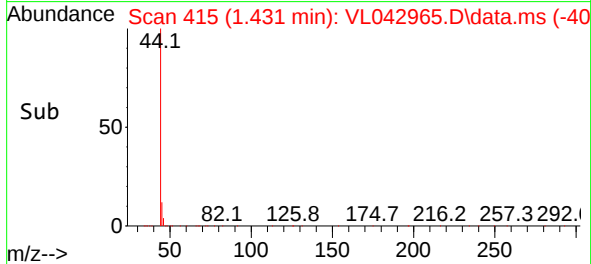
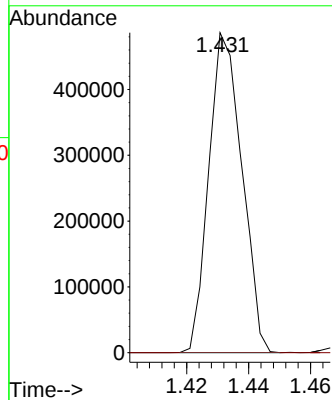
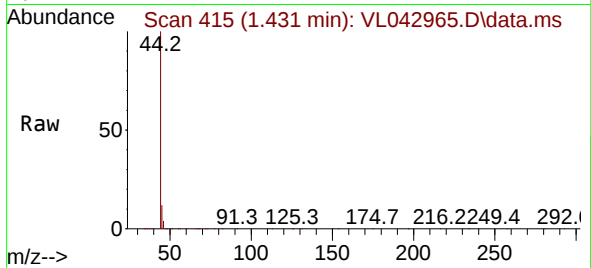
SV2DL

Tgt Ion: 45 Resp: 361017

Ion Ratio Lower Upper

45 100

58 0.1 31.0 46.6#



#20

Methylene Chloride

Concen: 2.759 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042965.D

Acq: 22 Sep 2025 19:49

Tgt Ion: 84 Resp: 20063

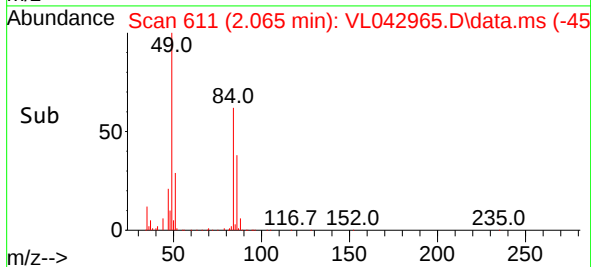
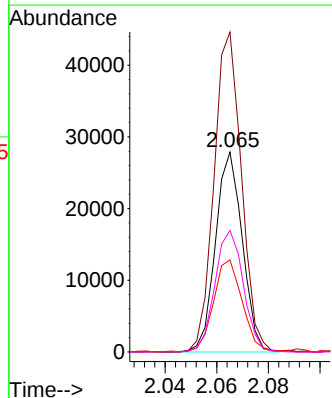
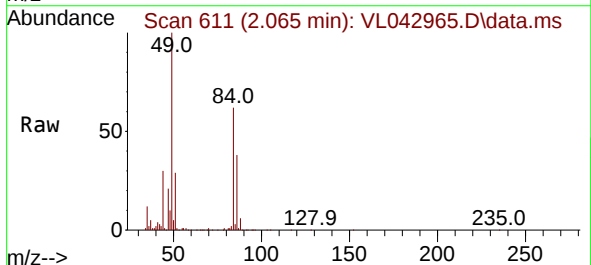
Ion Ratio Lower Upper

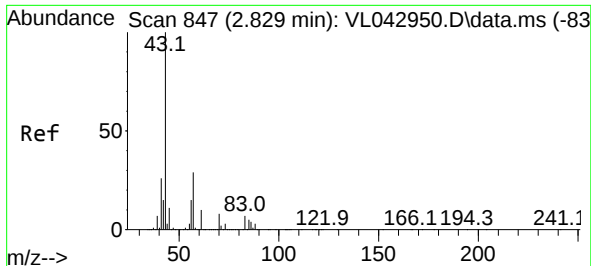
84 100

49 159.9 124.1 186.1

51 46.0 39.8 59.8

86 60.8 50.9 76.3





#25

Ethyl Acetate

Concen: 0.341 ppbv

RT: 2.832 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL042965.D

Acq: 22 Sep 2025 19:49

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 43 Resp: 17898

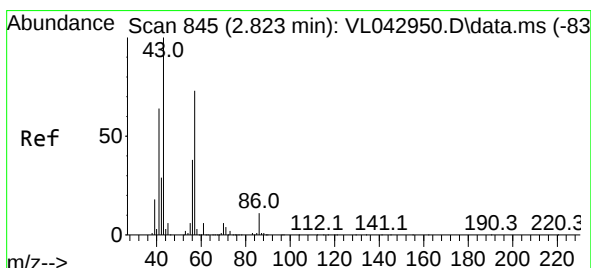
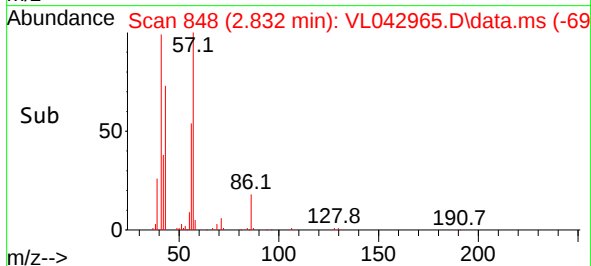
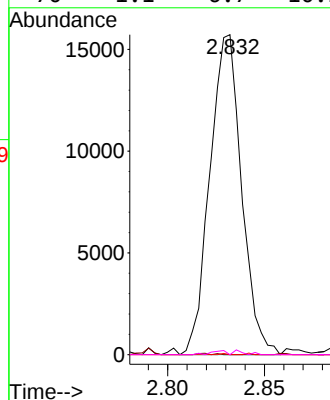
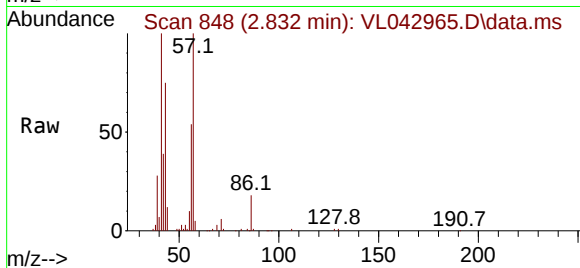
Ion Ratio Lower Upper

43 100

45 0.2 7.7 11.5#

61 0.2 7.1 10.7#

70 1.1 6.7 10.1#



#26

Hexane

Concen: 1.067 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL042965.D

Acq: 22 Sep 2025 19:49

Tgt Ion: 57 Resp: 25506

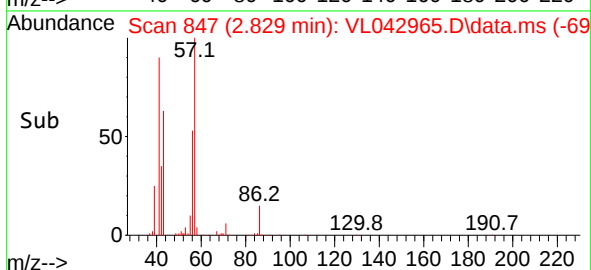
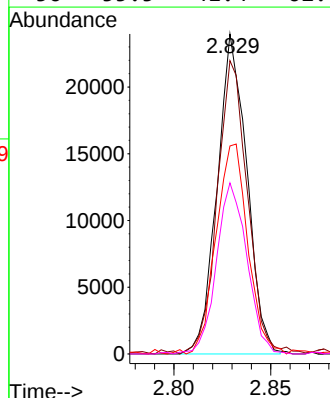
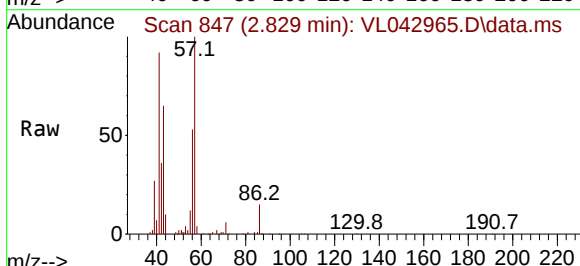
Ion Ratio Lower Upper

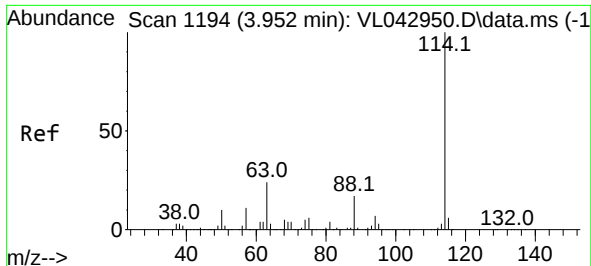
57 100

41 96.0 71.7 107.5

43 72.0 180.8 271.2#

56 55.5 41.4 62.0

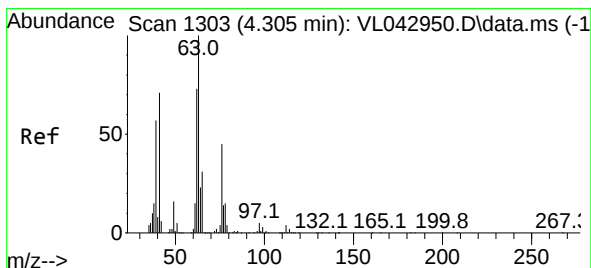
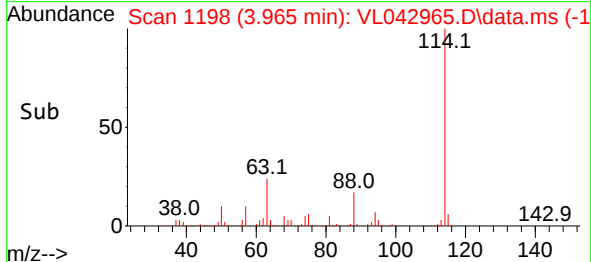
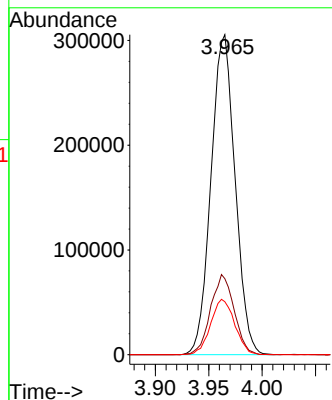
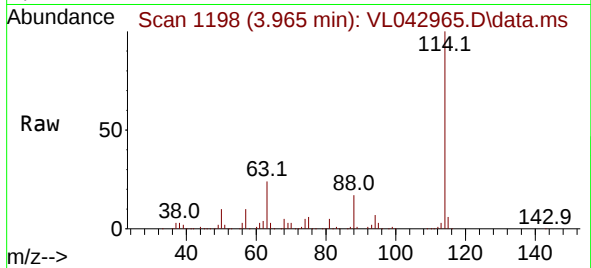




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1194
 Delta R.T. 0.013 min
 Lab File: VL042965.D
 Acq: 22 Sep 2025 19:49

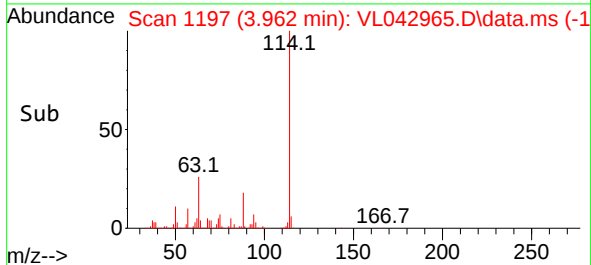
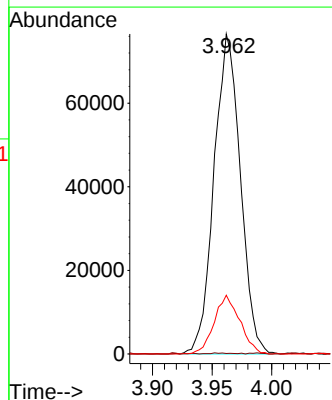
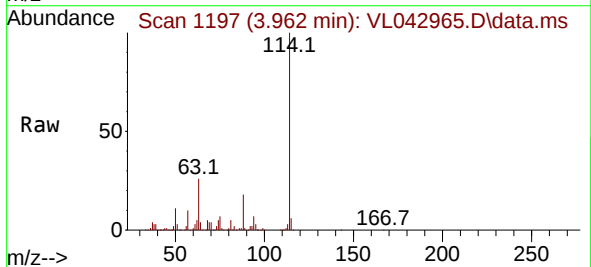
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

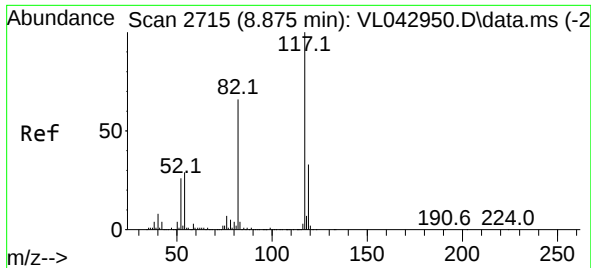
Tgt Ion:114 Resp: 479324
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.4 29.2
 88 17.4 14.2 21.2



#39
 1,2-Dichloropropane
 Concen: 7.156 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.343 min
 Lab File: VL042965.D
 Acq: 22 Sep 2025 19:49

Tgt Ion: 63 Resp: 117589
 Ion Ratio Lower Upper
 63 100
 41 0.4 57.5 86.3#
 62 18.4 58.5 87.7#

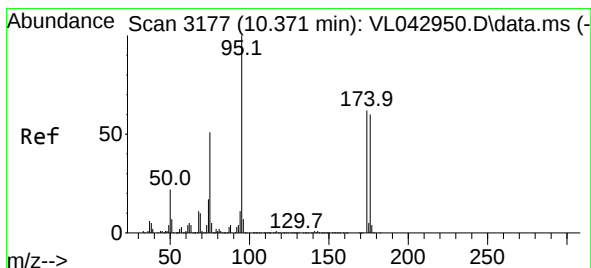
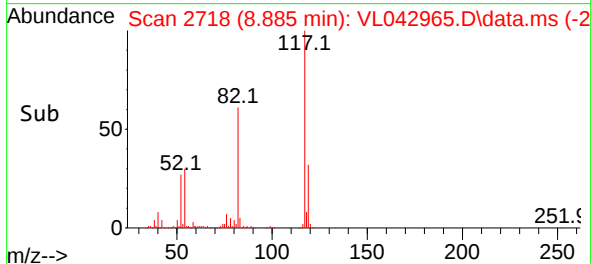
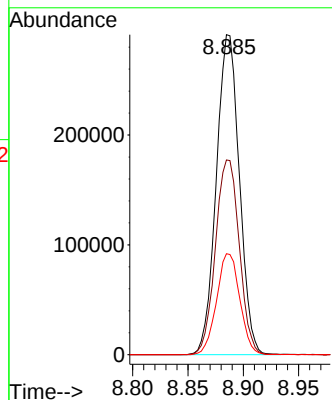
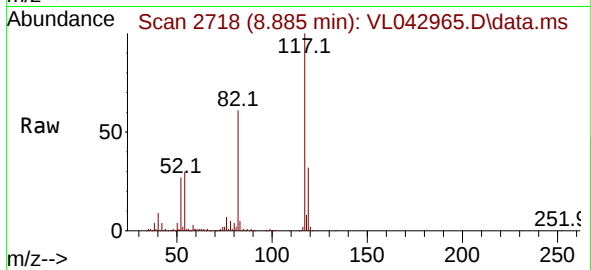




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

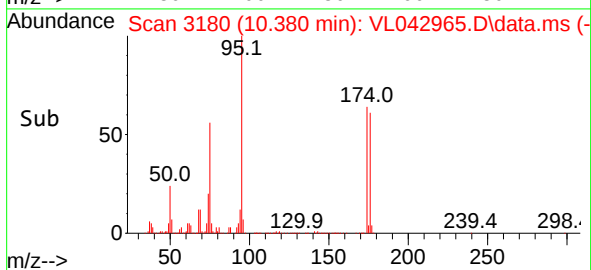
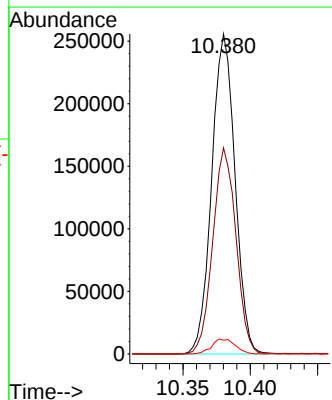
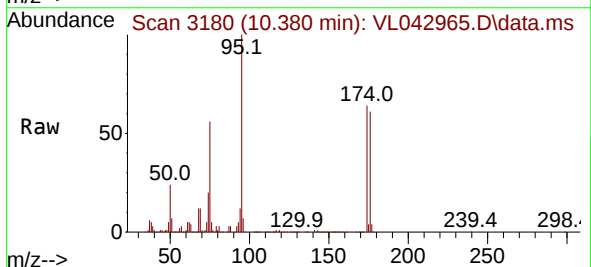
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

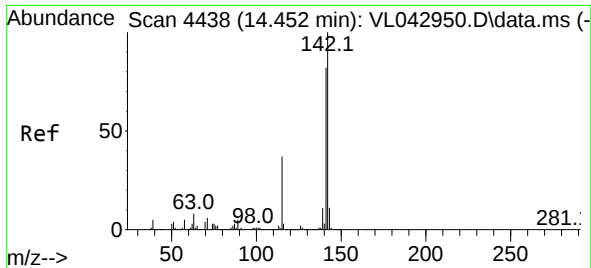
Tgt Ion: 117 Resp: 422943
Ion Ratio Lower Upper
117 100
82 62.9 52.8 79.2
119 31.8 26.5 39.7



#68
1-Bromo-4-Fluorobenzene
Concen: 9.749 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

Tgt Ion: 95 Resp: 307794
Ion Ratio Lower Upper
95 100
174 64.4 51.4 77.2
175 4.7 4.0 6.0





#80
Naphthalene, 2-methyl-
Concen: 0.083 ppbv
RT: 14.468 min Scan# 44
Delta R.T. 0.016 min
Lab File: VL042965.D
Acq: 22 Sep 2025 19:49

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	106.1	65.1	97.7#
115	55.3	28.9	43.3#

