

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042085.D
 Acq On : 03 Mar 2025 19:28
 Operator : SY/MD
 Sample : Q1430-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Mar 04 00:21:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

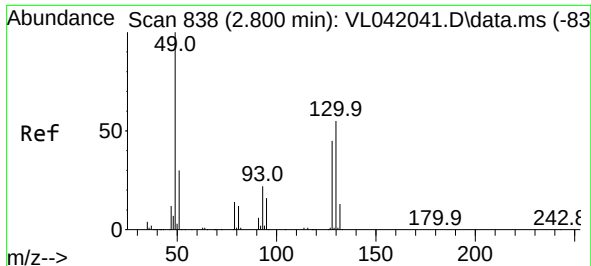
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	160113	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.956	114	354605	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.879	117	302162	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	228590	9.833	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2013	0.121	ppbv	96
4) Chloromethane	1.528	50	264	0.043	ppbv #	61
9) Propene	1.483	41	3577	0.377	ppbv	98
11) Trichlorofluoromethane	1.875	101	2921	0.175	ppbv #	79
13) Ethanol	1.719	45	46249	76.851	ppbv	92
15) Acetone	1.836	43	42438	3.001	ppbv #	86
16) 1,3-Butadiene	1.603	39	3903	0.593	ppbv #	29
17) tert-Butyl alcohol	2.043	59	2090	0.118	ppbv #	70
19) Isopropyl Alcohol	1.887	45	5220	0.643	ppbv #	1
20) Methylene Chloride	2.059	84	4683	0.876	ppbv	87
23) Vinyl Acetate	2.447	43	1776	0.179	ppbv #	73
26) Hexane	2.829	57	5333	0.233	ppbv #	43
27) Carbon Disulfide	2.150	76	884	0.057	ppbv #	1
34) 2-Butanone	2.557	43	78799	2.852	ppbv	96
36) Benzene	3.655	78	3698	0.100	ppbv #	89
39) 1,2-Dichloropropane	3.956	63	96555	6.853	ppbv #	23
44) 2,2,4-Trimethylpentane	4.635	57	3728	0.057	ppbv #	40
50) 4-Methyl-2-Pentanone	5.758	43	3011	0.084	ppbv #	38
52) Tetrachloroethene	8.225	164	16785	1.321	ppbv	95
53) Toluene	6.927	91	15282	0.368	ppbv #	20
58) Ethyl Benzene	9.354	91	4358	0.078	ppbv	97
59) m/p-Xylene	9.529	91	10639	0.240	ppbv #	100
60) o-Xylene	9.960	91	5229	0.117	ppbv	96
73) 1,3,5-Trimethylbenzene	11.199	105	1603	0.034	ppbv #	75
74) 1,2,4-Trimethylbenzene	11.529	105	5489	0.103	ppbv #	57

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

Quant Time: Mar 04 00:21:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

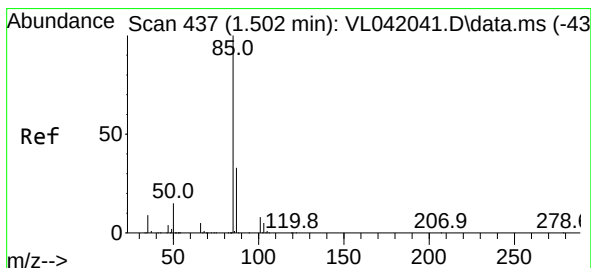
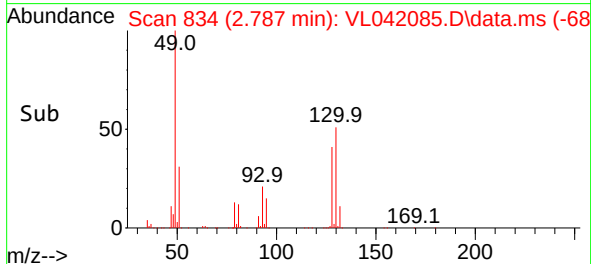
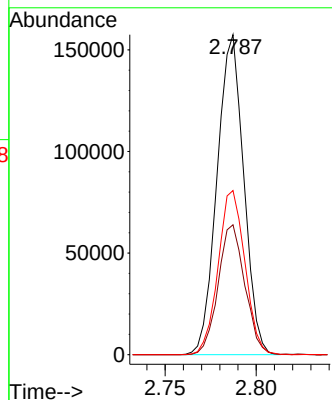
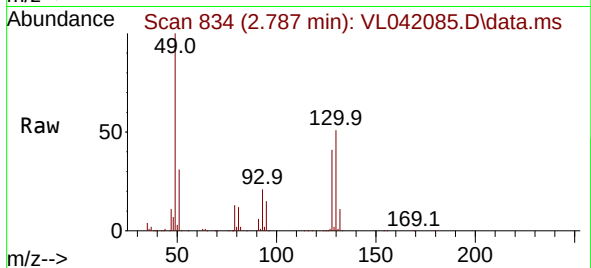




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. -0.013 min
 Lab File: VL042085.D
 Acq: 03 Mar 2025 19:28

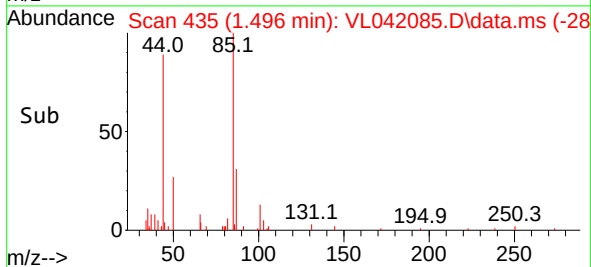
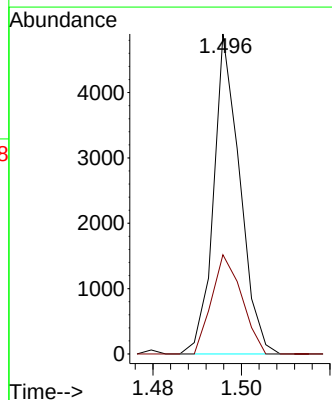
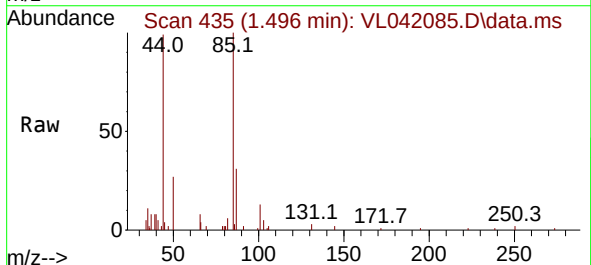
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

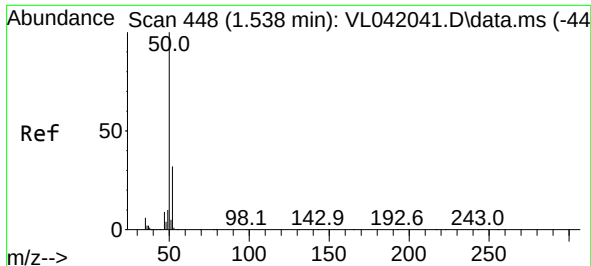
Tgt Ion: 49 Resp: 160113
 Ion Ratio Lower Upper
 49 100
 128 40.6 21.6 64.8
 130 51.6 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.121 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.006 min
 Lab File: VL042085.D
 Acq: 03 Mar 2025 19:28

Tgt Ion: 85 Resp: 2013
 Ion Ratio Lower Upper
 85 100
 87 31.0 26.4 39.6

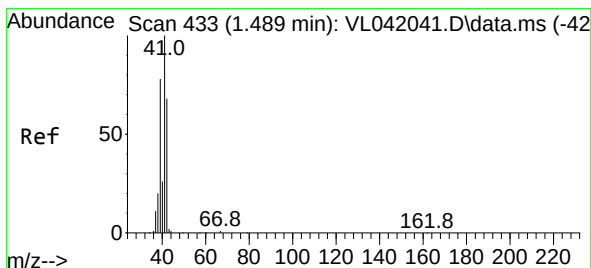
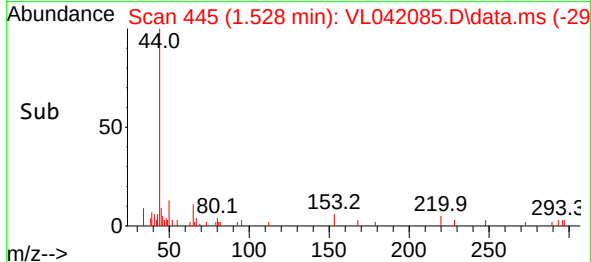
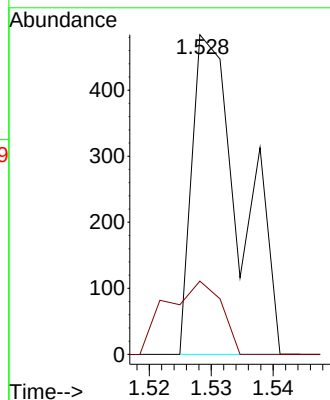
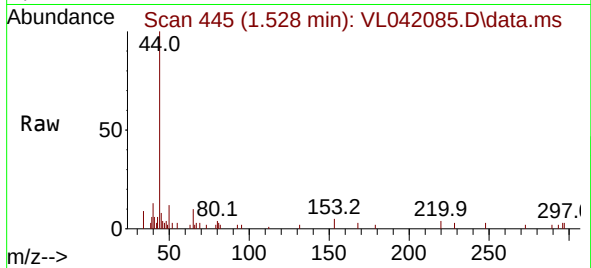




#4
Chloromethane
Concen: 0.043 ppbv
RT: 1.528 min Scan# 448
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

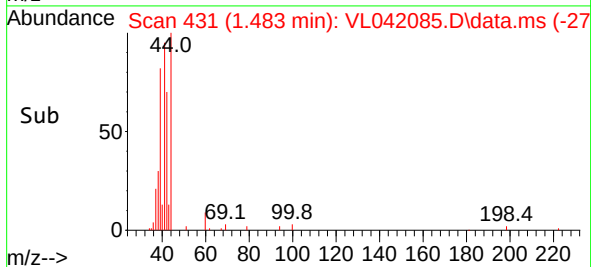
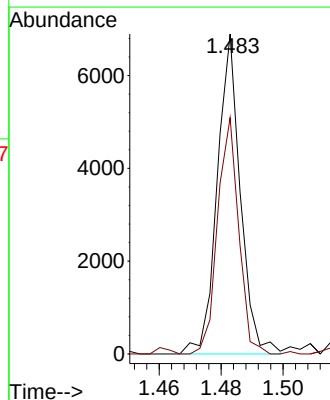
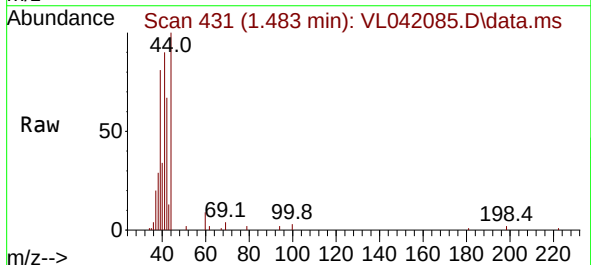
Instrument :
MSVOA_L
ClientSampleId :
SV1

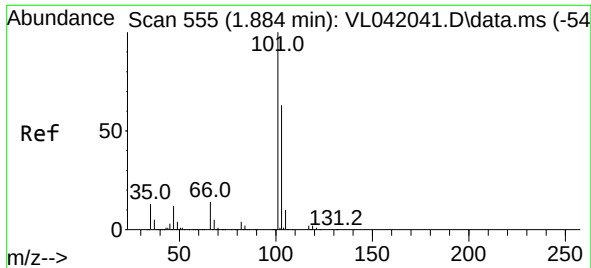
Tgt Ion: 50 Resp: 264
Ion Ratio Lower Upper
50 100
52 9.9 25.4 38.0#



#9
Propene
Concen: 0.377 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 41 Resp: 3577
Ion Ratio Lower Upper
41 100
42 68.4 55.8 83.6





#11

Trichlorofluoromethane

Concen: 0.175 ppbv

RT: 1.875 min Scan# 504

Delta R.T. -0.010 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

Instrument :

MSVOA_L

ClientSampleId :

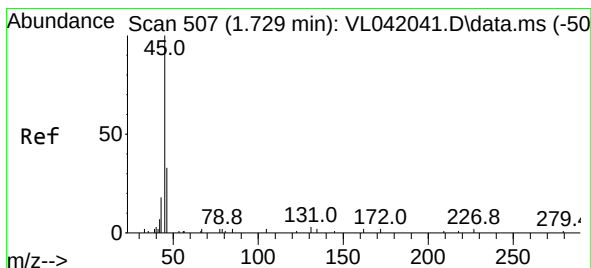
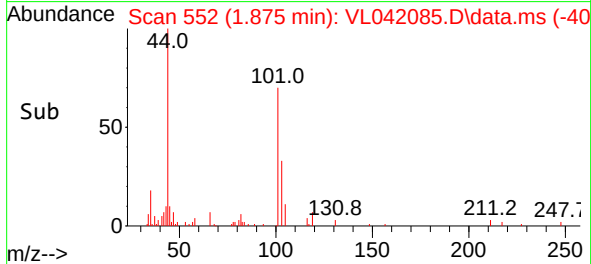
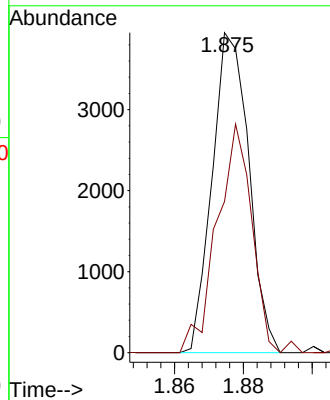
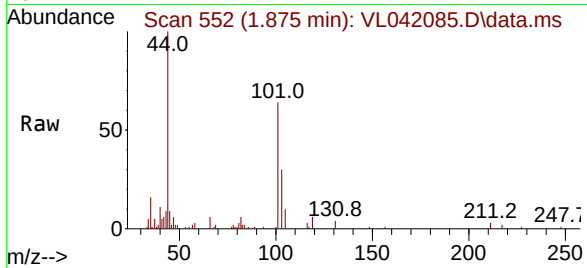
SV1

Tgt Ion:101 Resp: 2921

Ion Ratio Lower Upper

101 100

103 47.3 50.6 75.8#



#13

Ethanol

Concen: 76.851 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.010 min

Lab File: VL042085.D

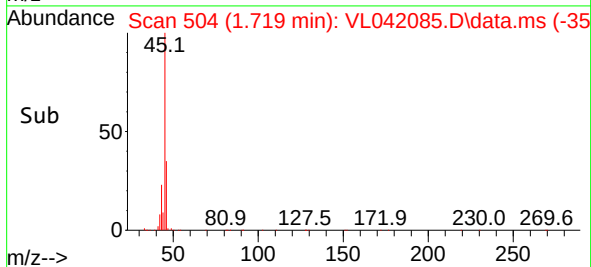
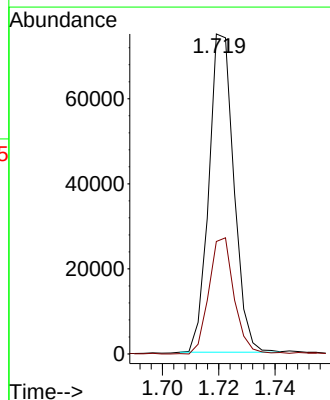
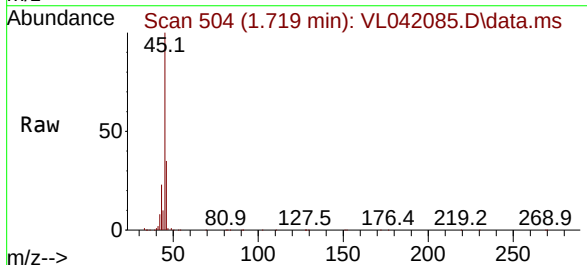
Acq: 03 Mar 2025 19:28

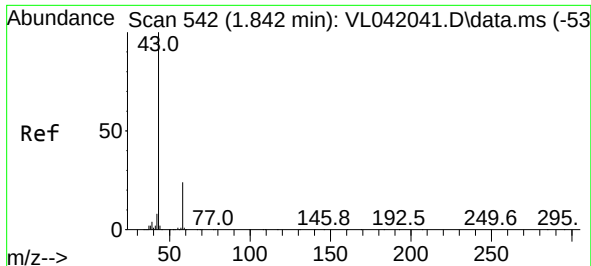
Tgt Ion: 45 Resp: 46249

Ion Ratio Lower Upper

45 100

46 37.7 17.1 68.3





#15

Acetone

Concen: 3.001 ppbv

RT: 1.836 min Scan# 54

Delta R.T. -0.006 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

Instrument :

MSVOA_L

ClientSampleId :

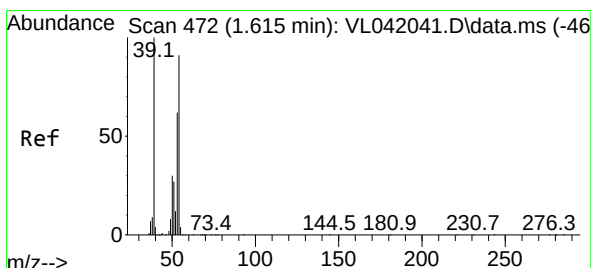
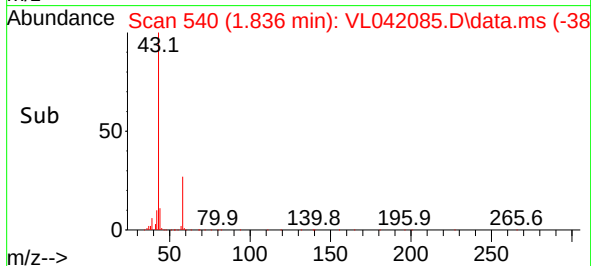
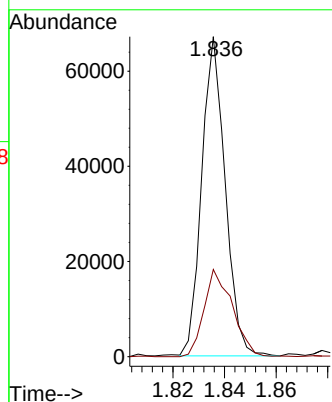
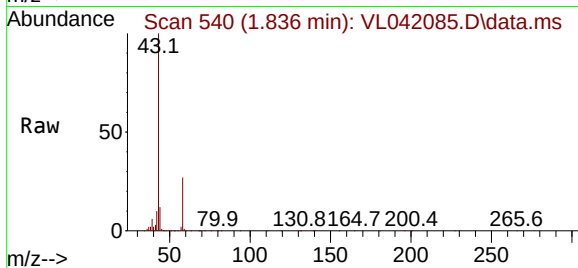
SV1

Tgt Ion: 43 Resp: 42438

Ion Ratio Lower Upper

43 100

58 33.1 20.7 31.1#



#16

1,3-Butadiene

Concen: 0.593 ppbv

RT: 1.603 min Scan# 468

Delta R.T. -0.013 min

Lab File: VL042085.D

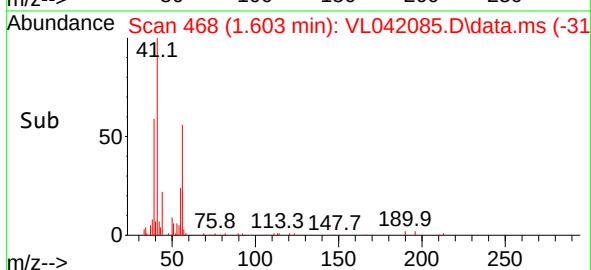
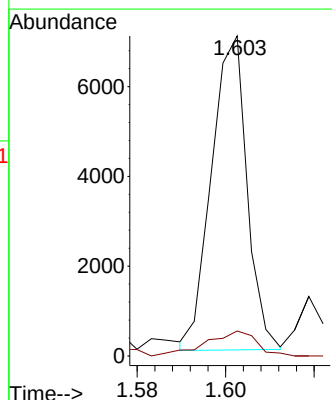
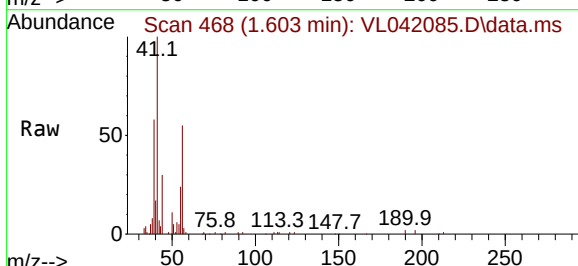
Acq: 03 Mar 2025 19:28

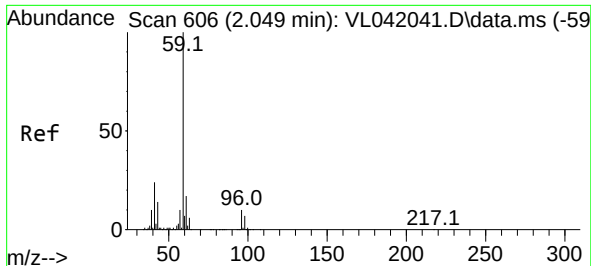
Tgt Ion: 39 Resp: 3903

Ion Ratio Lower Upper

39 100

54 13.9 59.6 89.4#

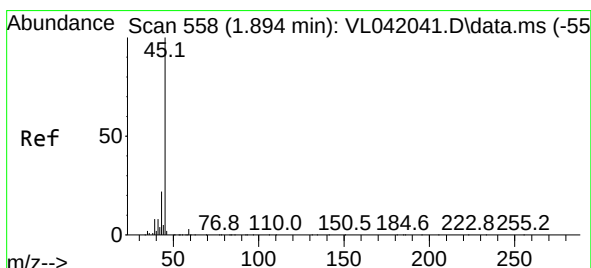
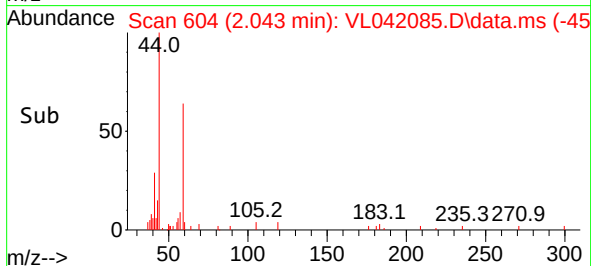
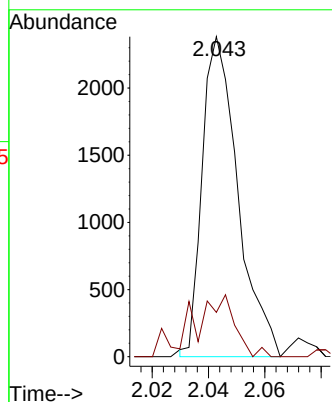
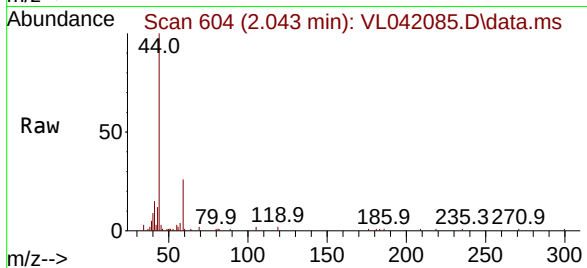




#17
tert-Butyl alcohol
Concen: 0.118 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

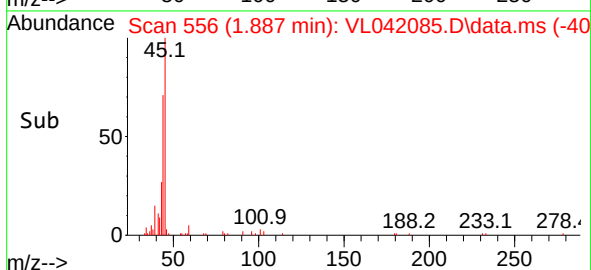
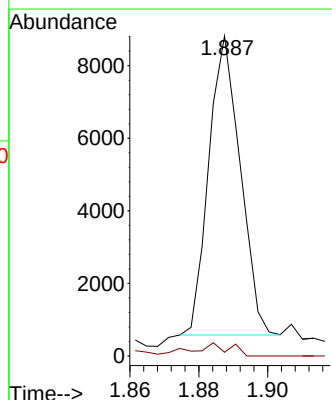
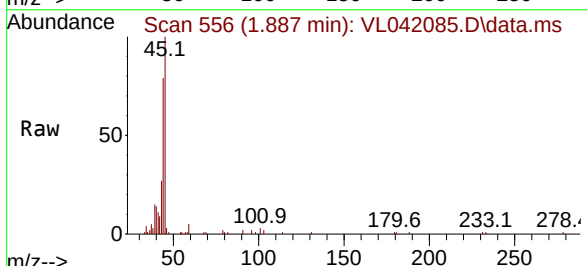
Instrument :
MSVOA_1
ClientSampleId :
SV1

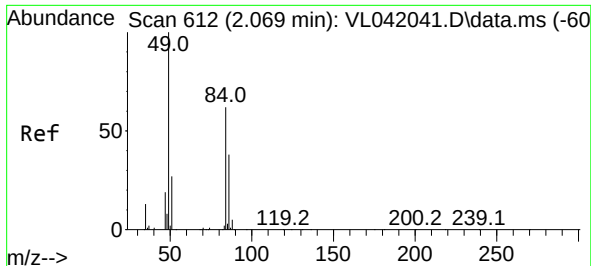
Tgt Ion: 59 Resp: 2090
Ion Ratio Lower Upper
59 100
57 23.2 9.3 13.9#



#19
Isopropyl Alcohol
Concen: 0.643 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.006 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 45 Resp: 5220
Ion Ratio Lower Upper
45 100
58 269.7 35.3 52.9#



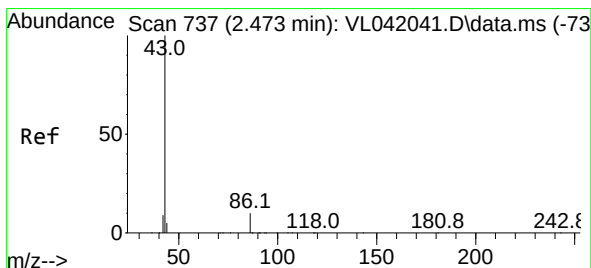
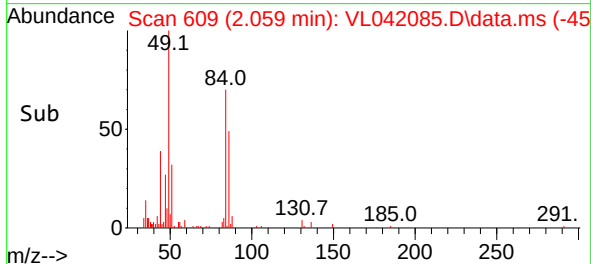
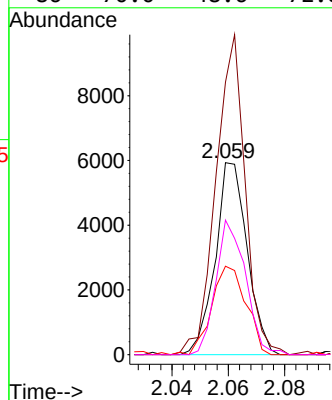
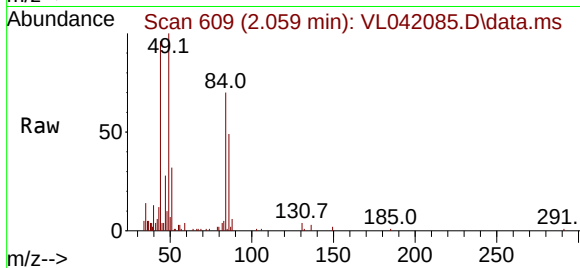


#20
Methylene Chloride
Concen: 0.876 ppbv
RT: 2.059 min Scan# 612
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 4683

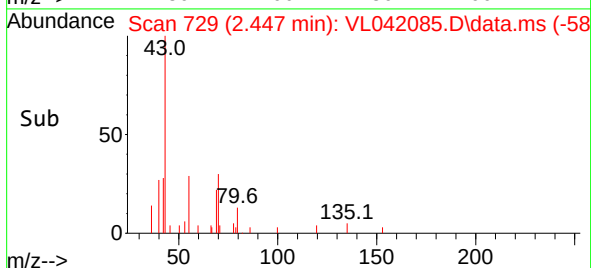
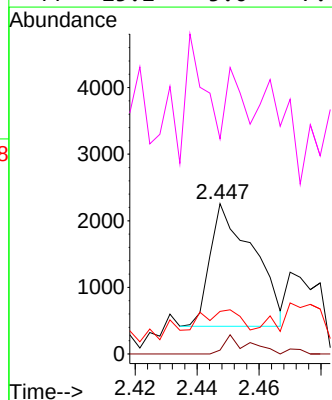
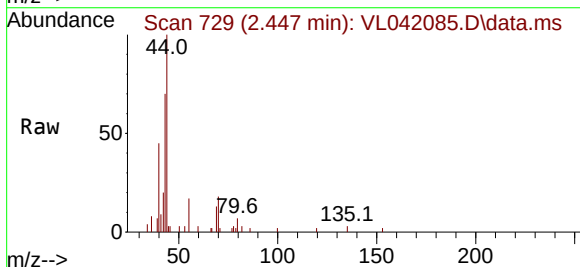
Ion	Ratio	Lower	Upper
84	100		
49	140.7	130.0	195.0
51	46.1	37.4	56.0
86	70.0	48.6	72.8

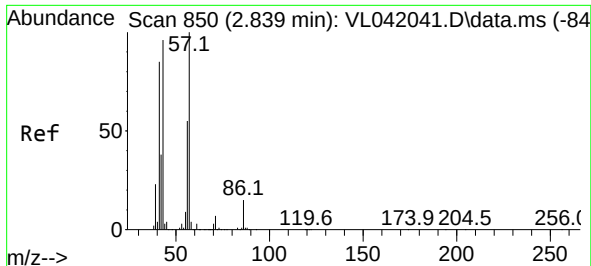


#23
Vinyl Acetate
Concen: 0.179 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.026 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 43 Resp: 1776

Ion	Ratio	Lower	Upper
43	100		
86	3.2	7.0	10.4#
42	16.2	7.6	11.4#
44	25.2	5.0	7.4#

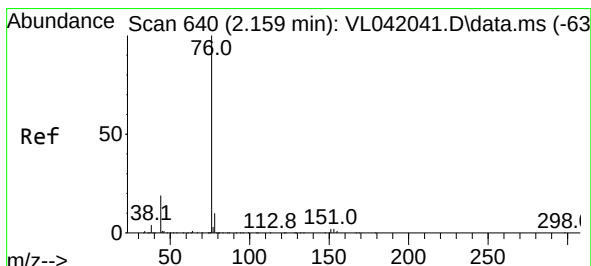
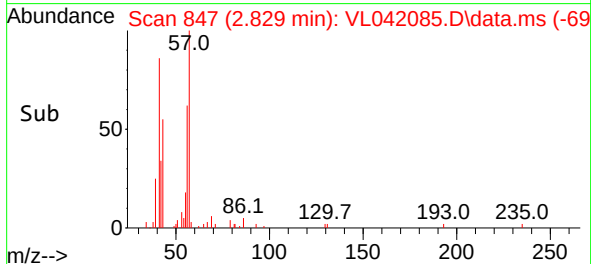
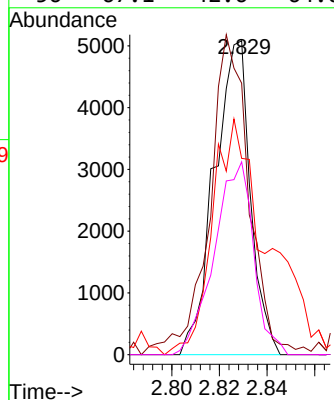
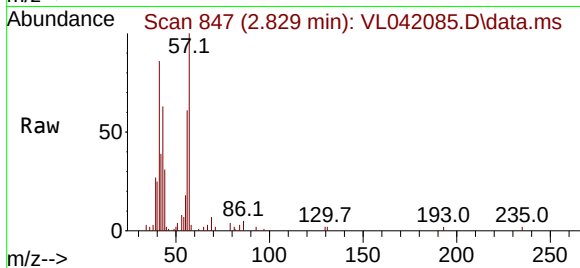




#26
Hexane
Concen: 0.233 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

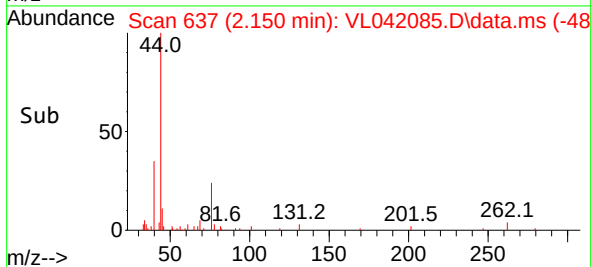
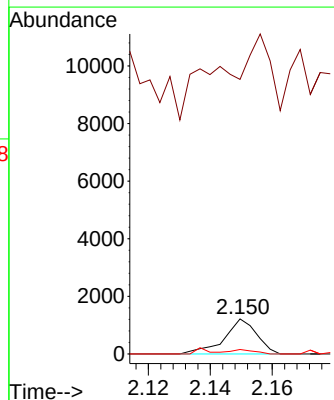
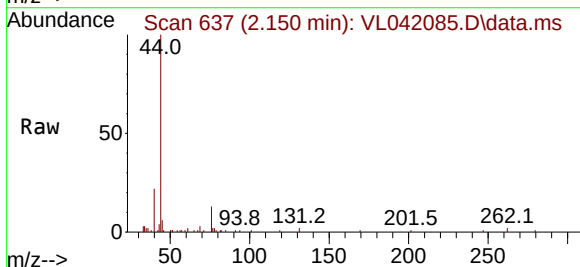
Instrument :
MSVOA_L
ClientSampleId :
SV1

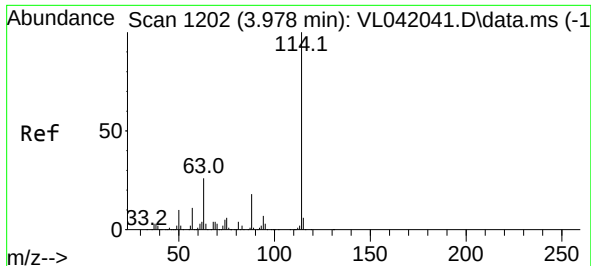
Tgt Ion:	57	Resp:	5333
Ion	Ratio	Lower	Upper
57	100		
41	117.0	70.6	106.0#
43	119.4	199.4	299.0#
56	67.1	42.6	64.0#



#27
Carbon Disulfide
Concen: 0.057 ppbv
RT: 2.150 min Scan# 637
Delta R.T. -0.010 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion:	76	Resp:	884
Ion	Ratio	Lower	Upper
76	100		
44	4247.6	16.2	24.2#
78	16.6	9.4	14.0#

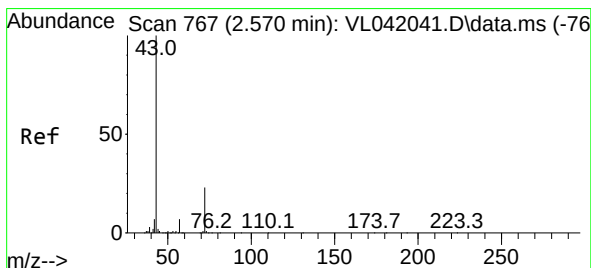
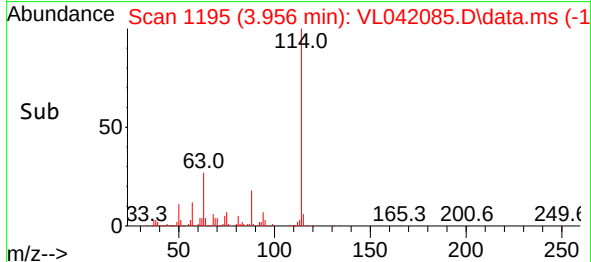
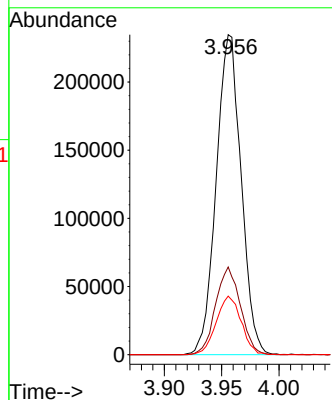
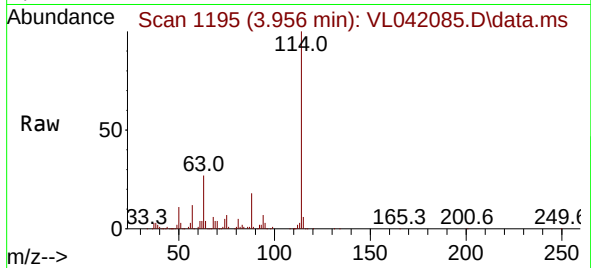




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.956 min Scan# 1195
 Delta R.T. -0.023 min
 Lab File: VL042085.D
 Acq: 03 Mar 2025 19:28

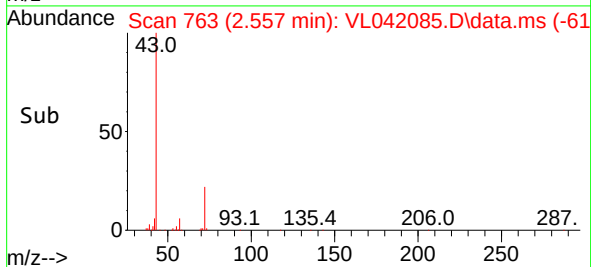
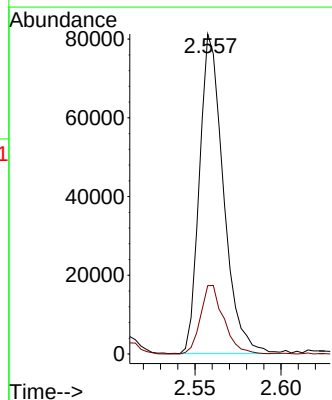
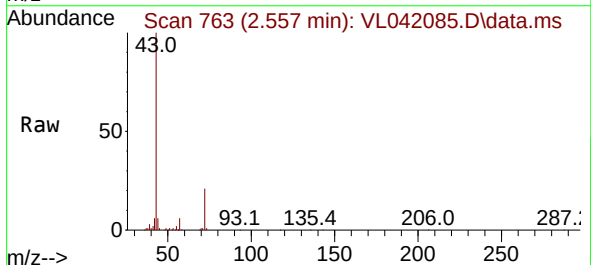
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

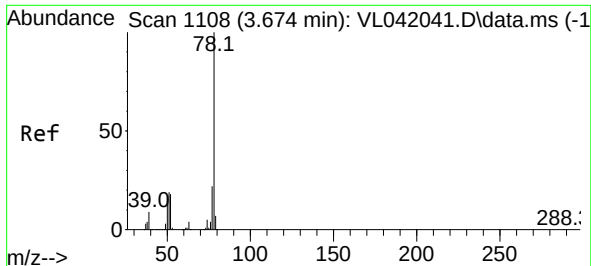
Tgt Ion:114 Resp: 354605
 Ion Ratio Lower Upper
 114 100
 63 27.3 20.1 30.1
 88 18.4 14.3 21.5



#34
 2-Butanone
 Concen: 2.852 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.013 min
 Lab File: VL042085.D
 Acq: 03 Mar 2025 19:28

Tgt Ion: 43 Resp: 78799
 Ion Ratio Lower Upper
 43 100
 72 21.1 18.5 27.7

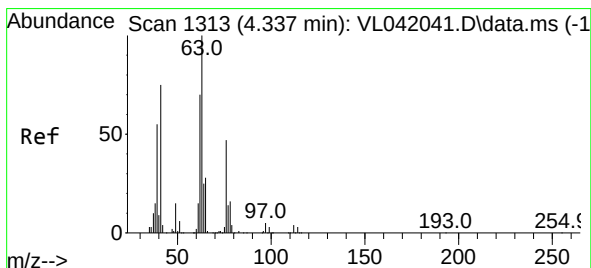
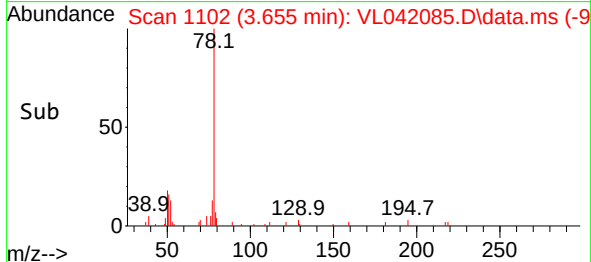
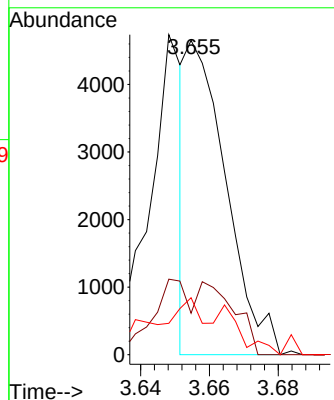
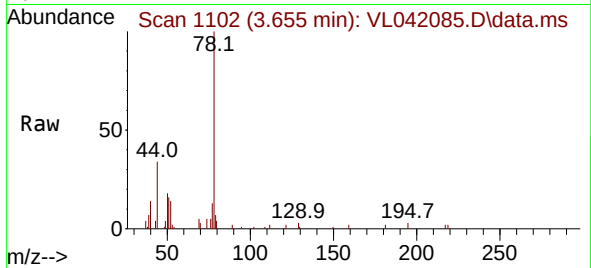




#36
Benzene
Concen: 0.100 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

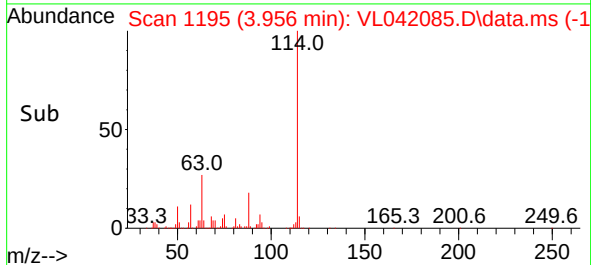
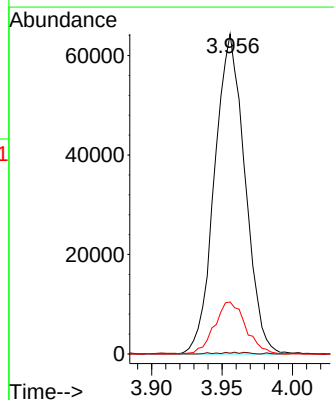
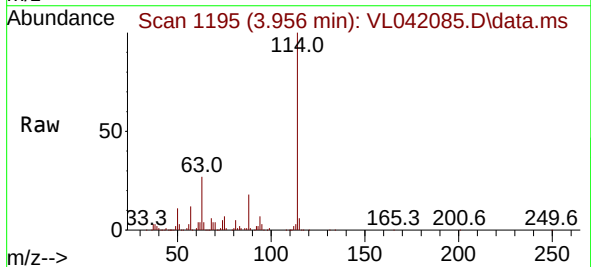
Instrument :
MSVOA_L
ClientSampleId :
SV1

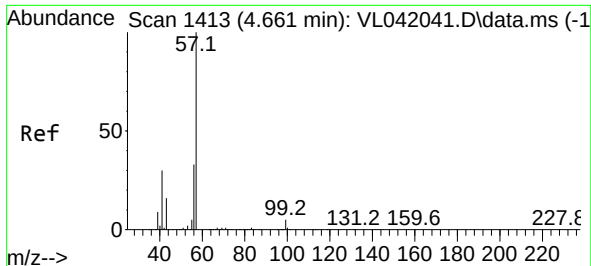
Tgt Ion:	78	Resp:	3698
Ion	Ratio	Lower	Upper
78	100		
77	13.2	17.7	26.5#
50	18.1	13.9	20.9



#39
1,2-Dichloropropane
Concen: 6.853 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.382 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion:	63	Resp:	96555
Ion	Ratio	Lower	Upper
63	100		
41	0.3	60.1	90.1#
62	16.1	55.8	83.8#

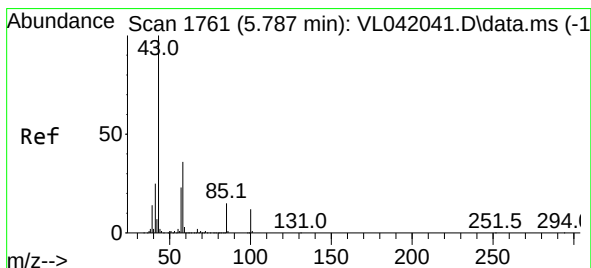
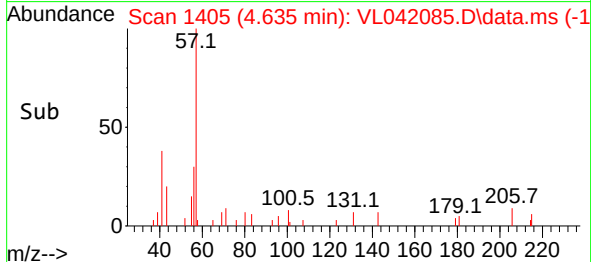
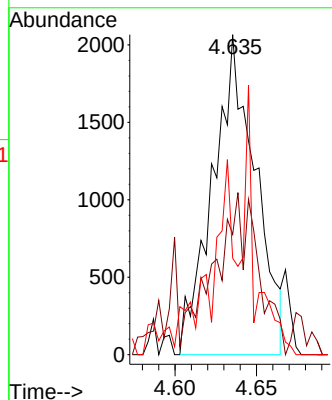
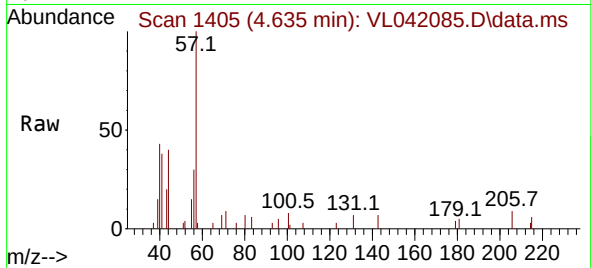




#44
2,2,4-Trimethylpentane
Concen: 0.057 ppbv
RT: 4.635 min Scan# 1413
Delta R.T. -0.026 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

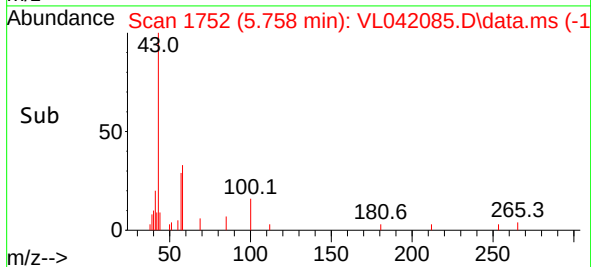
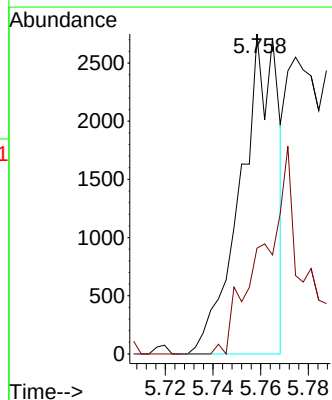
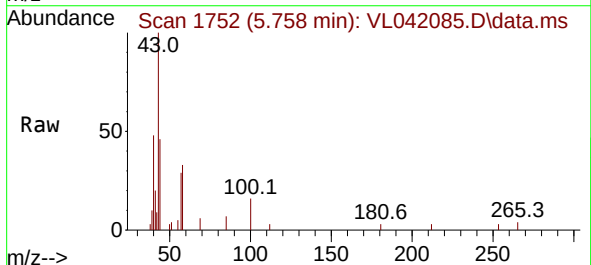
Instrument :
MSVOA_1
ClientSampleId :
SV1

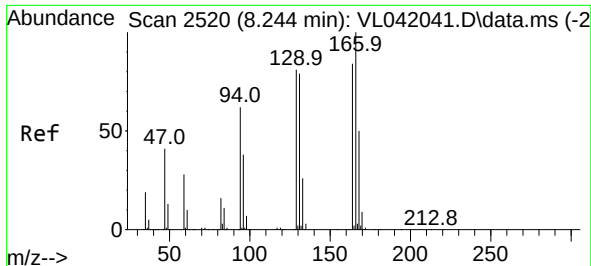
Tgt Ion: 57 Resp: 3728
Ion Ratio Lower Upper
57 100
41 69.2 24.4 36.6#
56 61.2 26.5 39.7#



#50
4-Methyl-2-Pentanone
Concen: 0.084 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. -0.029 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 43 Resp: 3011
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9#

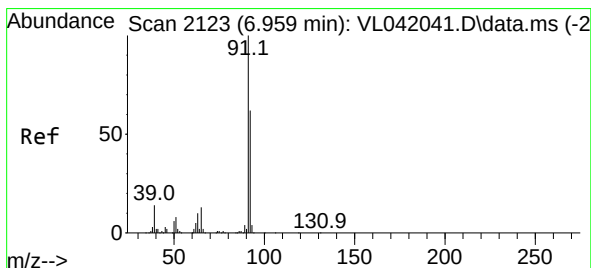
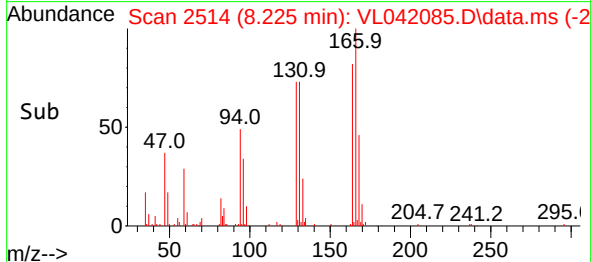
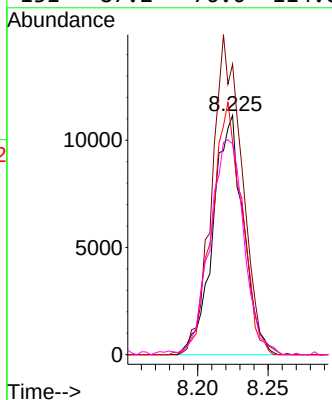
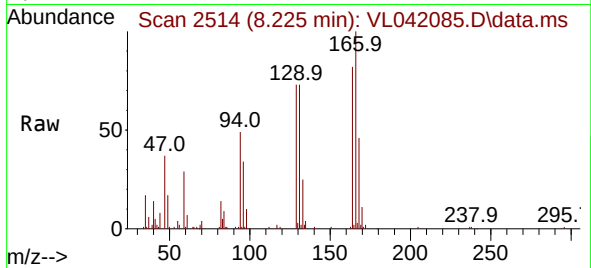




#52
Tetrachloroethene
Concen: 1.321 ppbv
RT: 8.225 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

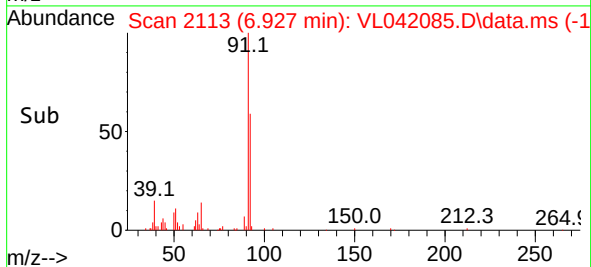
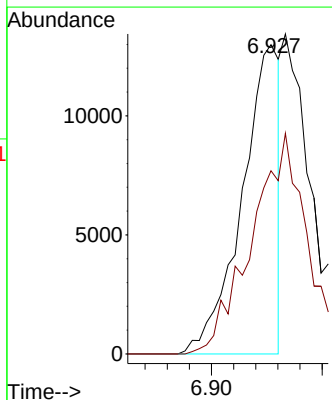
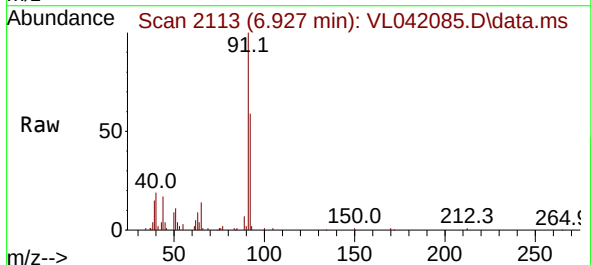
Instrument :
MSVOA_L
ClientSampleId :
SV1

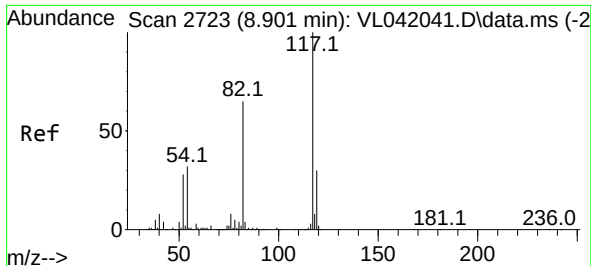
Tgt Ion:164 Resp: 16785
Ion Ratio Lower Upper
164 100
166 121.4 95.7 143.5
129 88.8 77.1 115.7
131 87.2 76.0 114.0



#53
Toluene
Concen: 0.368 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.032 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 91 Resp: 15282
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#

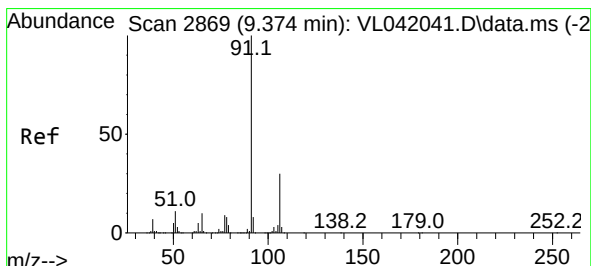
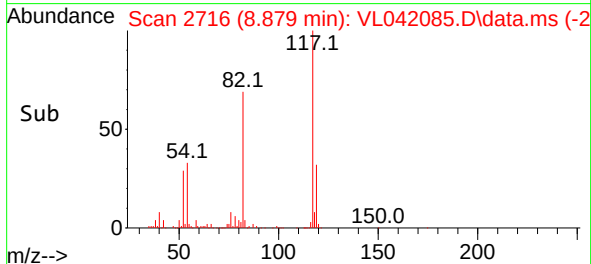
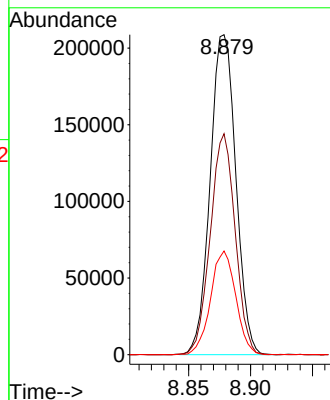
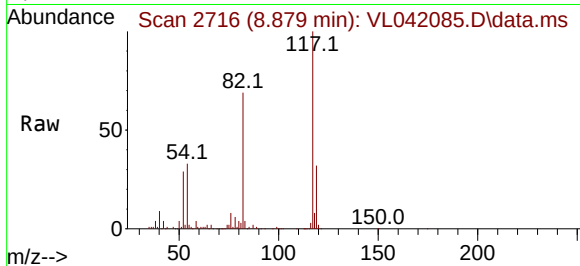




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

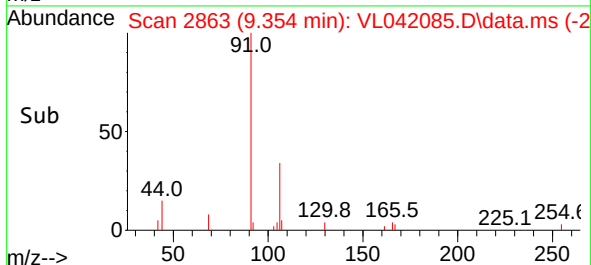
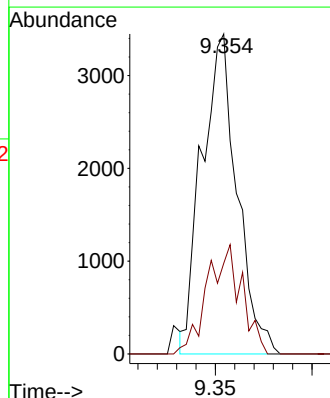
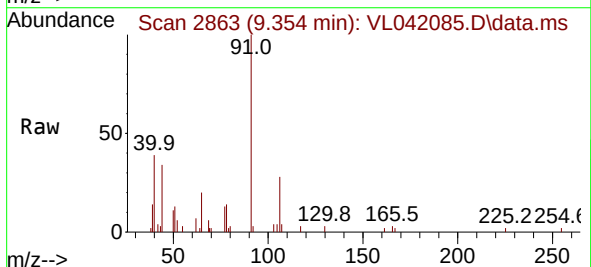
Instrument :
MSVOA_L
ClientSampleId :
SV1

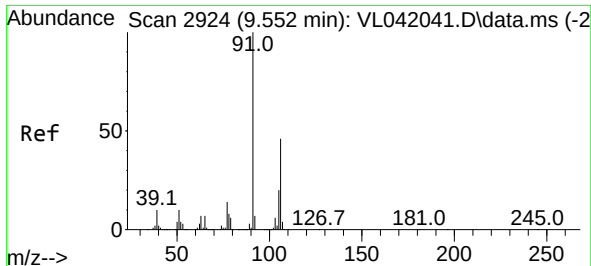
Tgt Ion:117 Resp: 302162
Ion Ratio Lower Upper
117 100
82 66.8 55.0 82.6
119 31.8 25.9 38.9



#58
Ethyl Benzene
Concen: 0.078 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

Tgt Ion: 91 Resp: 4358
Ion Ratio Lower Upper
91 100
106 28.3 24.2 36.2





#59

m/p-Xylene

Concen: 0.240 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042085.D

Acq: 03 Mar 2025 19:28

Instrument :

MSVOA_L

ClientSampleId :

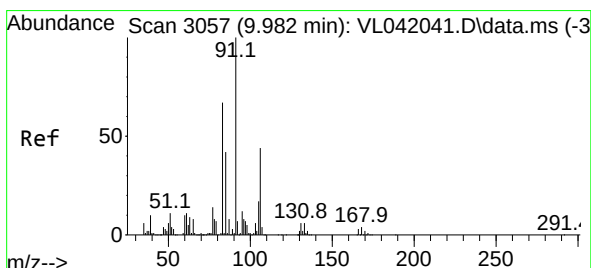
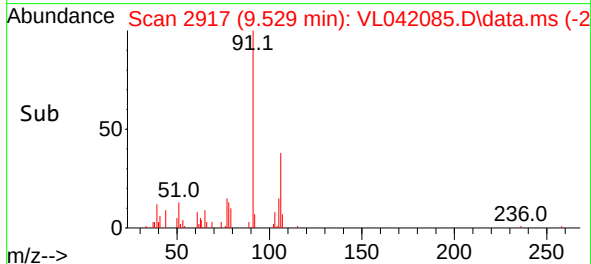
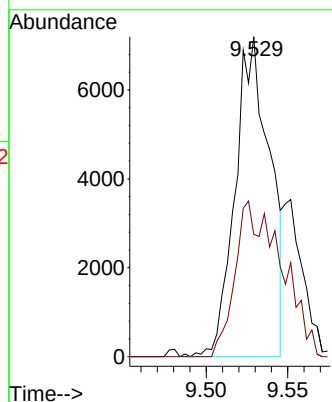
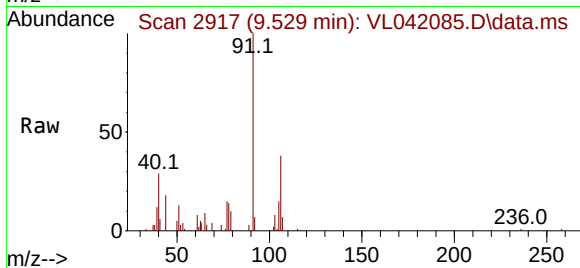
SV1

Tgt Ion: 91 Resp: 10639

Ion Ratio Lower Upper

91 100

106 64.8 0.0 0.0#



#60

o-Xylene

Concen: 0.117 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. -0.023 min

Lab File: VL042085.D

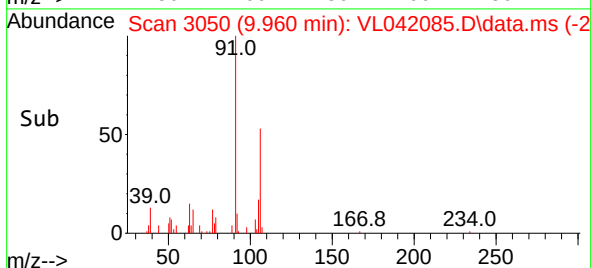
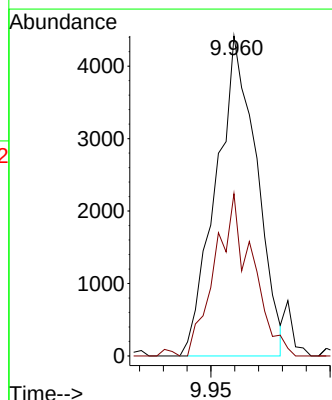
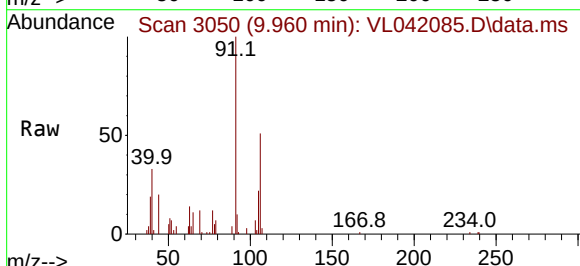
Acq: 03 Mar 2025 19:28

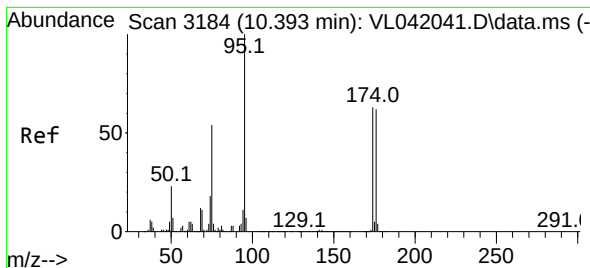
Tgt Ion: 91 Resp: 5229

Ion Ratio Lower Upper

91 100

106 47.0 22.3 66.8

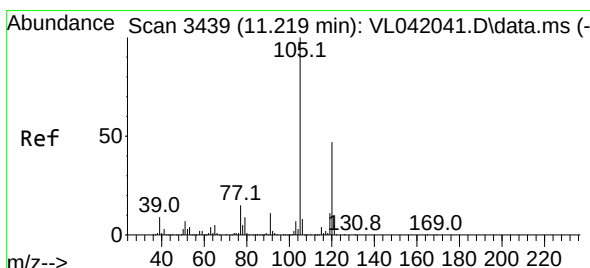
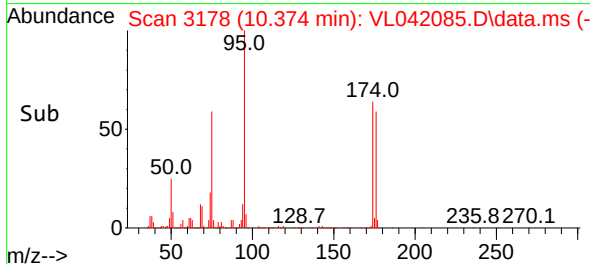
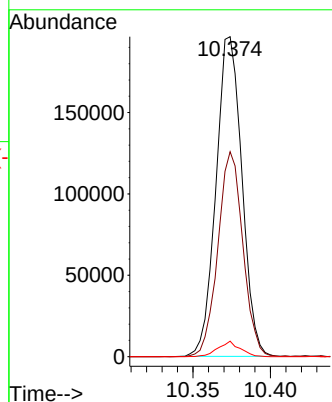
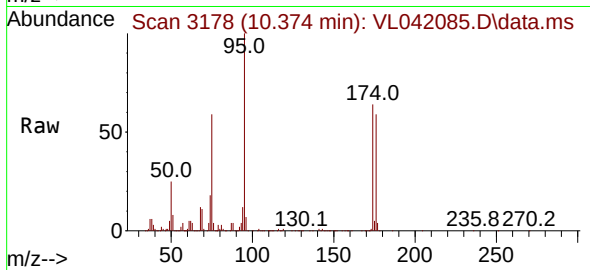




#68
1-Bromo-4-Fluorobenzene
Concen: 9.833 ppbv
RT: 10.374 min Scan# 3184
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

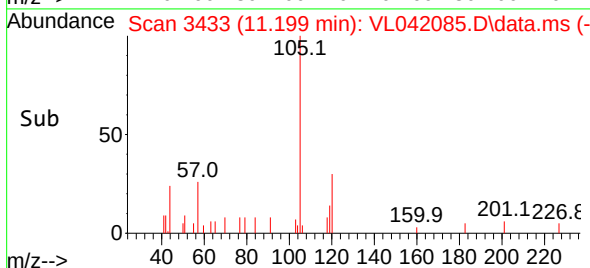
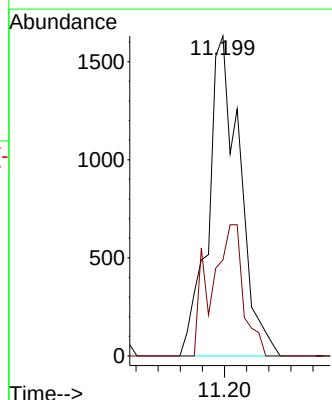
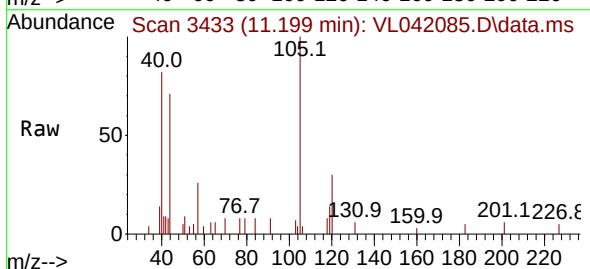
Instrument :
MSVOA_L
ClientSampleId :
SV1

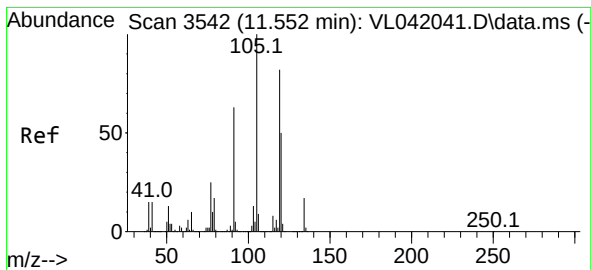
Tgt Ion: 95 Resp: 228590
Ion Ratio Lower Upper
95 100
174 62.1 51.8 77.6
175 4.2 3.9 5.9



#73
1,3,5-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.019 min
Lab File: VL042085.D
Acq: 03 Mar 2025 19:28

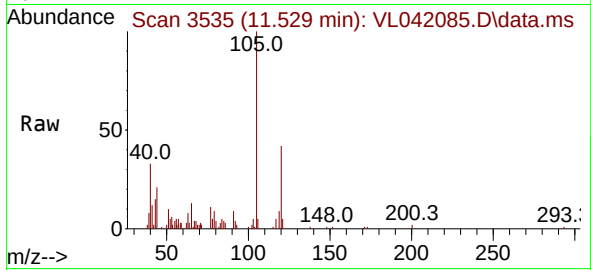
Tgt Ion: 105 Resp: 1603
Ion Ratio Lower Upper
105 100
120 30.0 37.4 56.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.103 ppbv
 RT: 11.529 min Scan# 31
 Delta R.T. -0.023 min
 Lab File: VL042085.D
 Acq: 03 Mar 2025 19:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	5489
Ion	Ratio	Lower	Upper
105	100		
120	40.4	40.2	60.2
91	8.3	51.4	77.2#
77	10.5	20.1	30.1#

