

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034989.D
 Acq On : 12 May 2020 16:23
 Operator : SY/AP
 Sample : L2567-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

Quant Time: May 13 01:08:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1077183	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2467773	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.11	117	2285049	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1874575	10.13	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

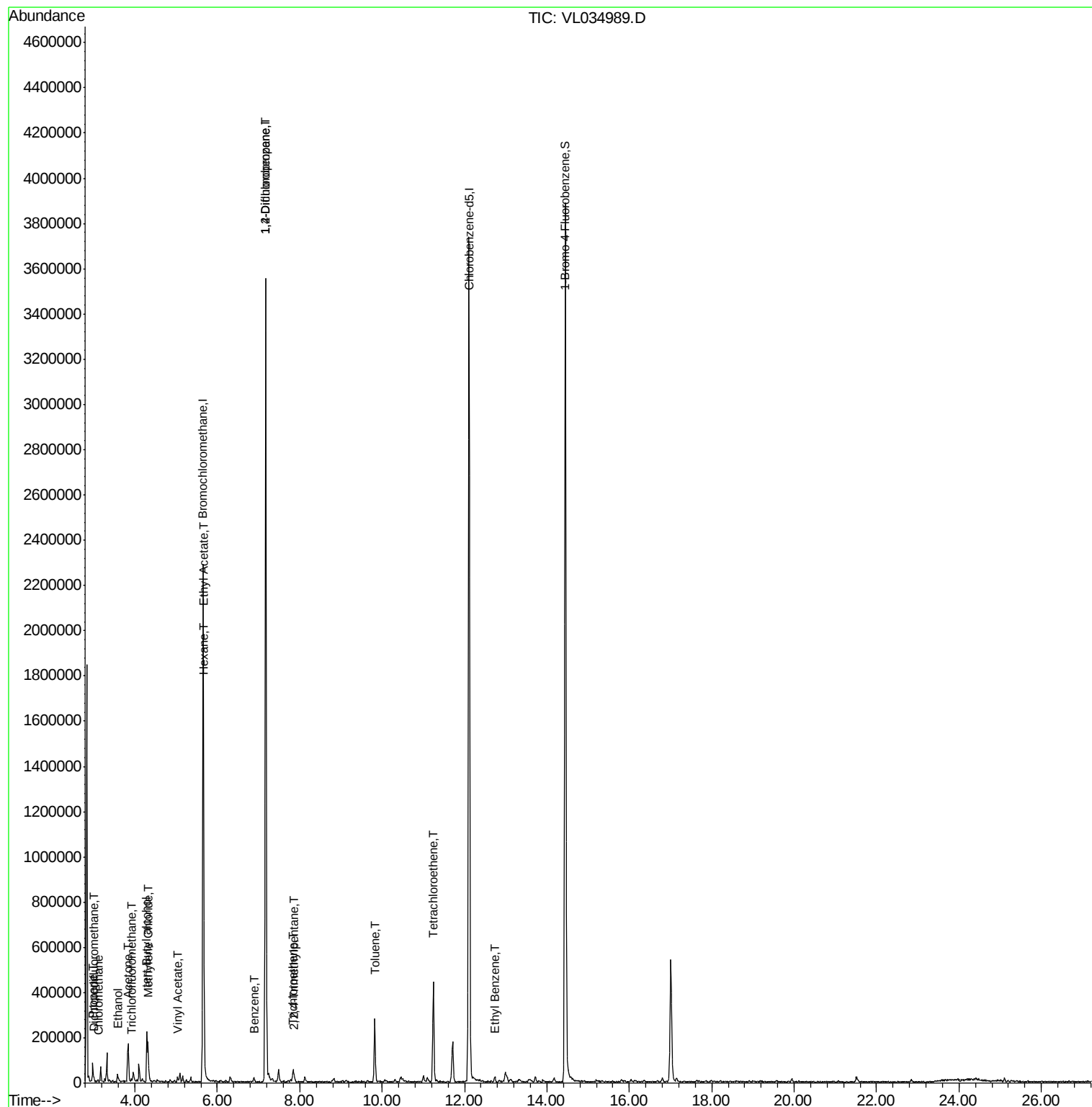
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	9357	0.061	ppbv #	81
4) Chloromethane	3.10	50	2099	0.030	ppbv	93
9) Propene	2.98	41	18527	0.347	ppbv	89
11) Trichlorofluoromethane	3.92	101	3407	0.022	ppbv	85
13) Ethanol	3.57	45	11345	0.644	ppbv #	39
15) Acetone	3.83	43	155610	1.093	ppbv	97
17) tert-Butyl alcohol	4.29	59	16377	0.129	ppbv #	71
20) Methylene Chloride	4.32	84	53465	1.134	ppbv #	82
23) Vinyl Acetate	5.05	43	3632	0.020	ppbv #	67
25) Ethyl Acetate	5.67	43	47479	0.198	ppbv #	82
26) Hexane	5.67	57	43054	0.415	ppbv #	54
36) Benzene	6.89	78	5055	0.025	ppbv #	74
38) Trichloroethene	7.83	130	9366	0.119	ppbv #	77
39) 1,2-Dichloropropane	7.18	63	677202	8.303	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	8361	0.023	ppbv #	24
52) Tetrachloroethene	11.25	164	106700	1.475	ppbv	89
53) Toluene	9.82	91	199225	0.924	ppbv	97
58) Ethyl Benzene	12.73	91	5883	0.021	ppbv	94

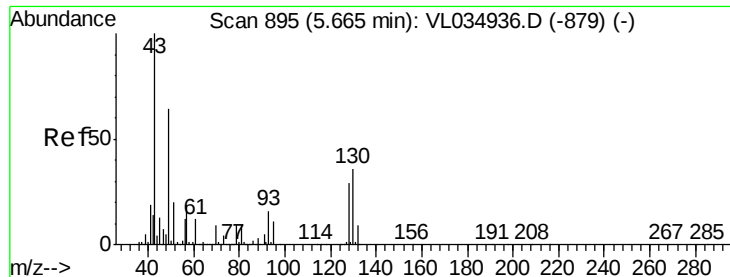
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL

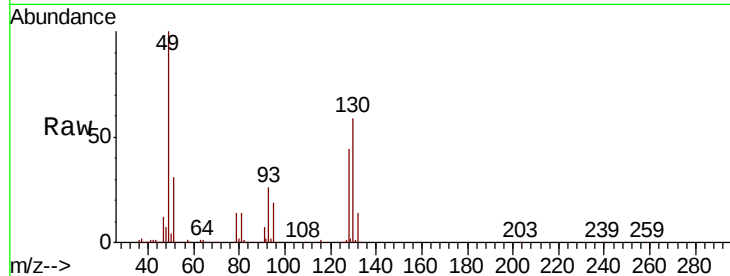
Tot Ion: 49 Resp: 1077183

Ion Ratio Lower Upper

49 100

128 46.0 22.1 66.5

130 58.9 29.1 87.3



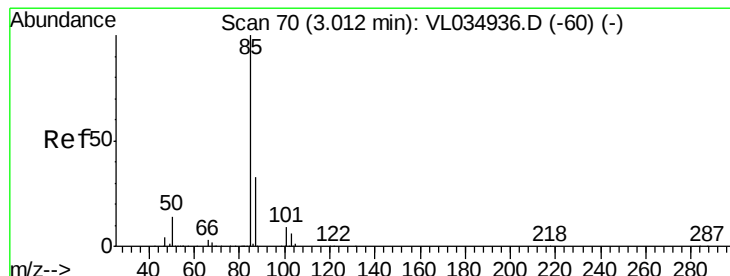
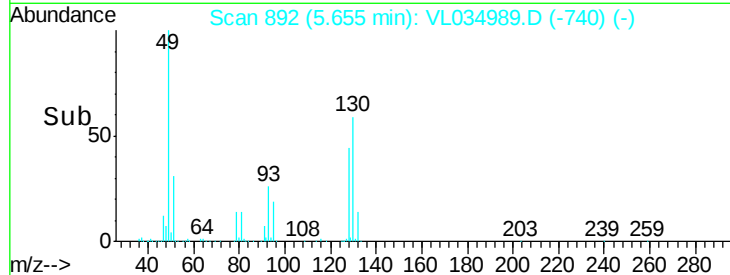
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL034989.D

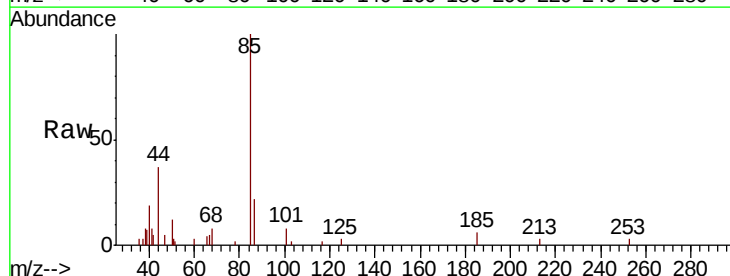
Acq: 12 May 2020 16:23

Tgt Ion: 85 Resp: 9357

Ion Ratio Lower Upper

85 100

87 21.9 26.2 39.2#

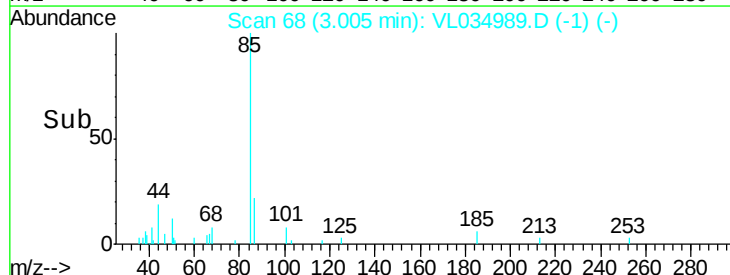


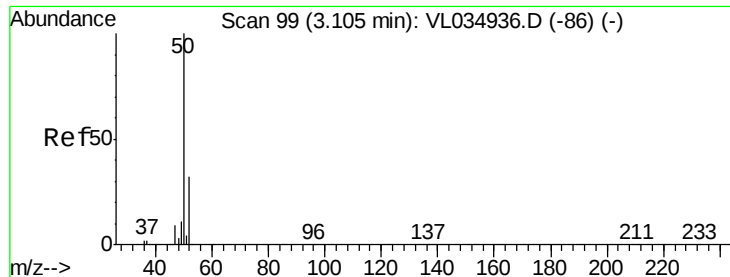
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->





#4

Chloromethane

Concen: 0.030 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

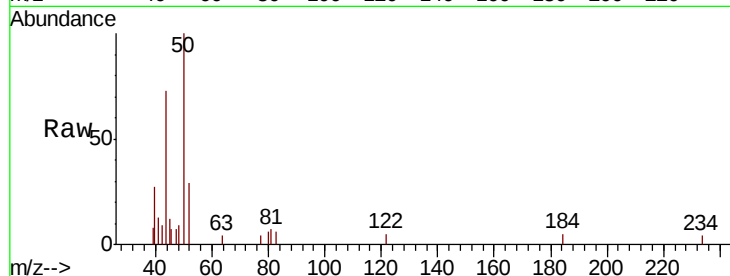
IA-4DL

Tot Ion: 50 Resp: 2099

Ion Ratio Lower Upper

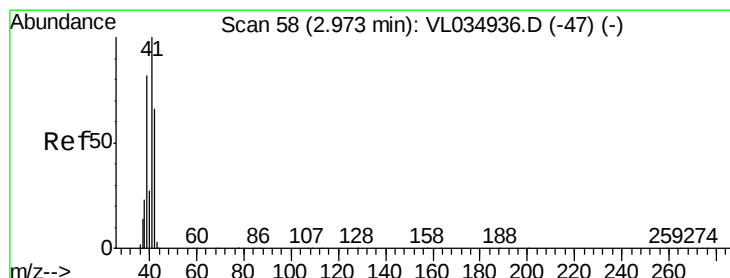
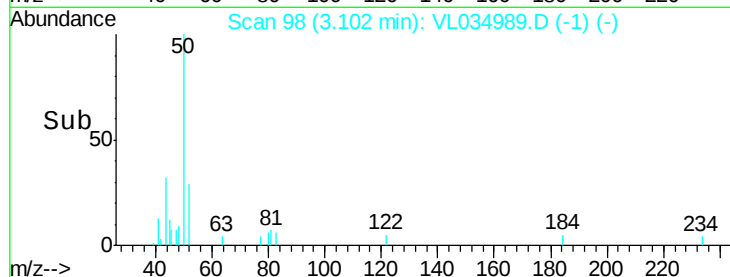
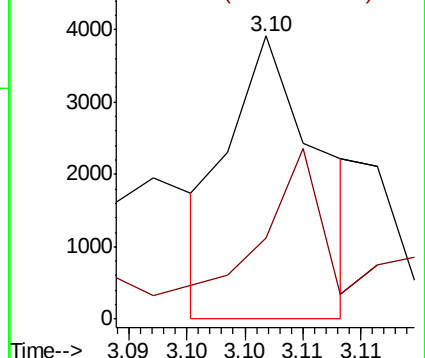
50 100

52 36.0 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.347 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL034989.D

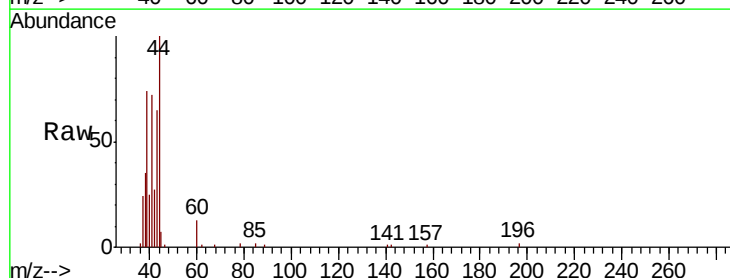
Acq: 12 May 2020 16:23

Tgt Ion: 41 Resp: 18527

Ion Ratio Lower Upper

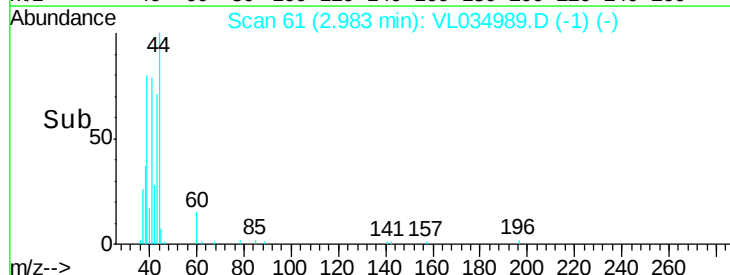
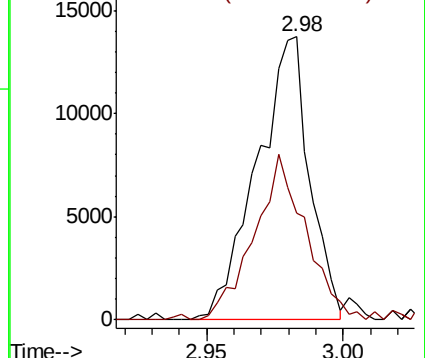
41 100

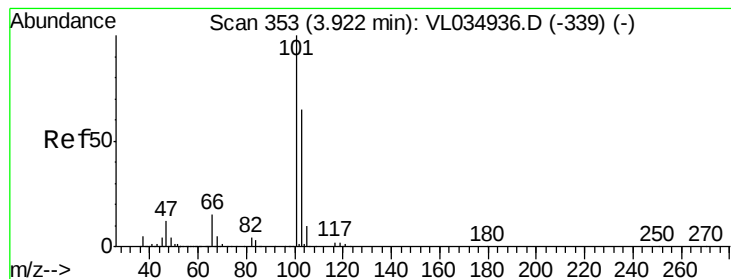
42 59.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.022 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

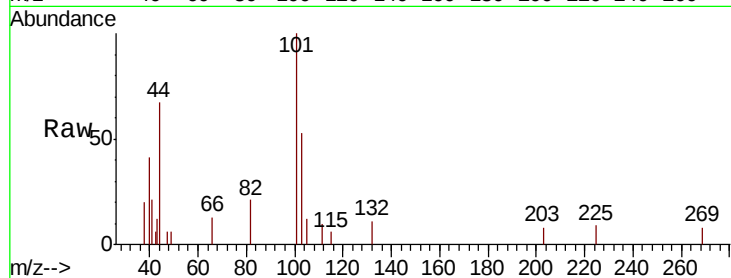
IA-4DL

Tot Ion:101 Resp: 3407

Ion Ratio Lower Upper

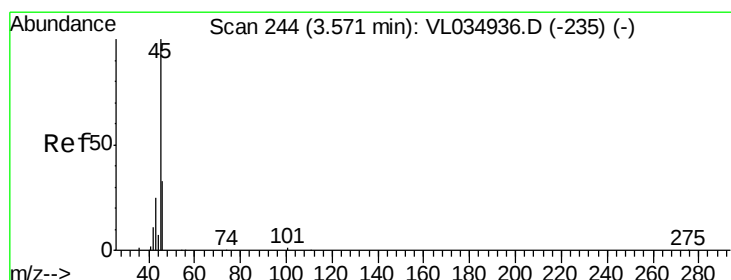
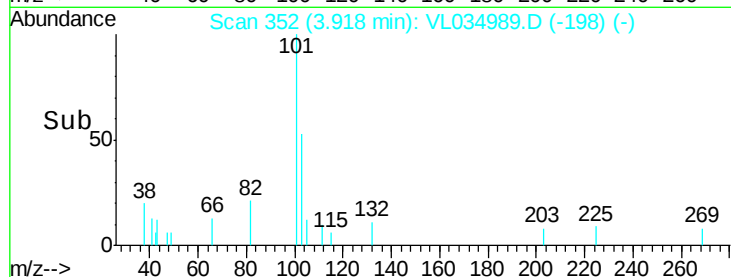
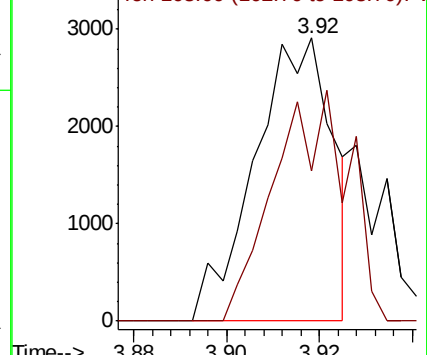
101 100

103 53.2 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.644 ppbv

RT: 3.57 min Scan# 244

Delta R.T. -0.00 min

Lab File: VL034989.D

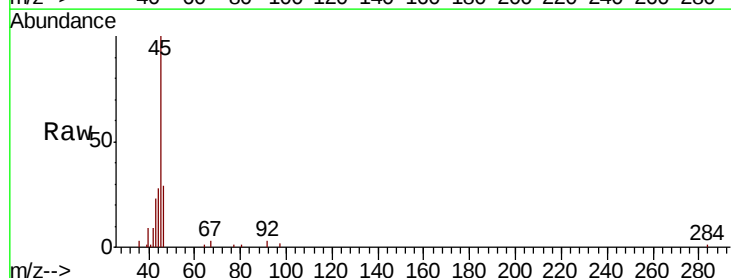
Acq: 12 May 2020 16:23

Tgt Ion: 45 Resp: 11345

Ion Ratio Lower Upper

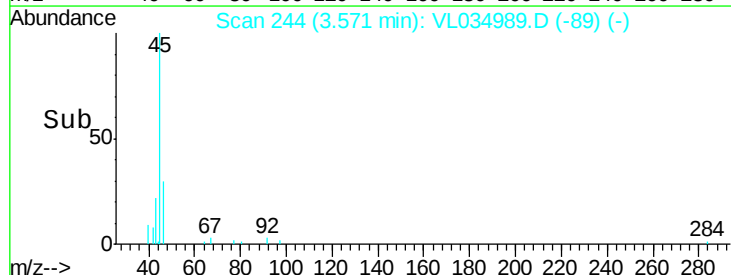
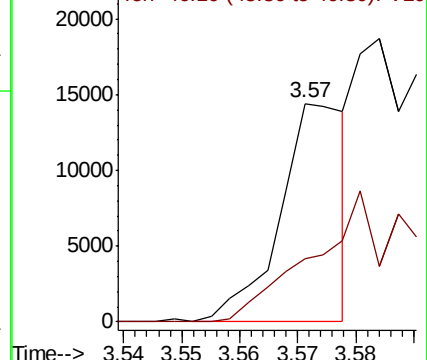
45 100

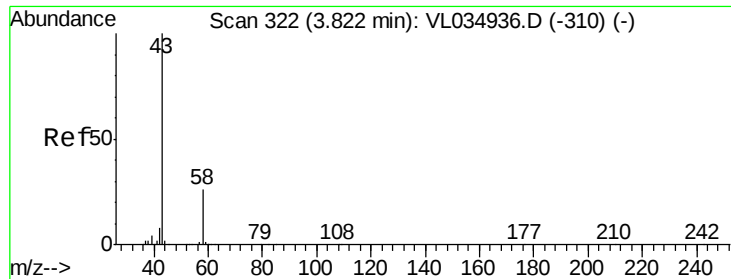
46 0.0 14.3 57.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.093 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

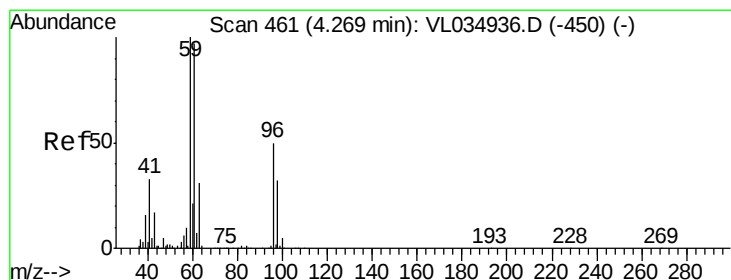
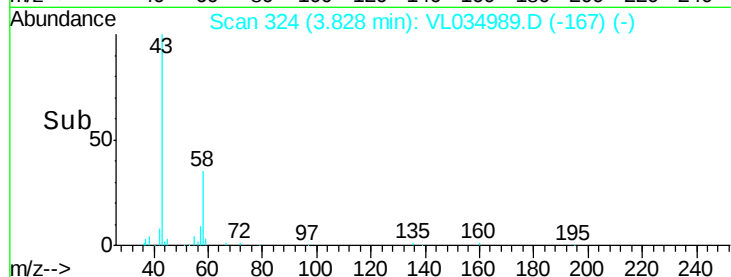
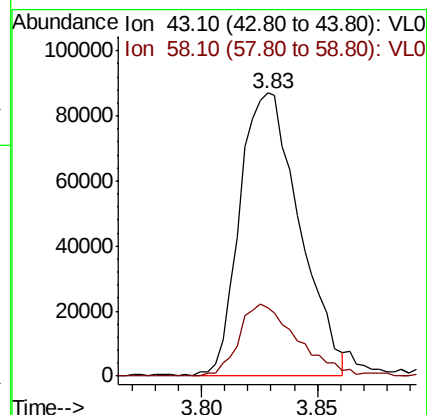
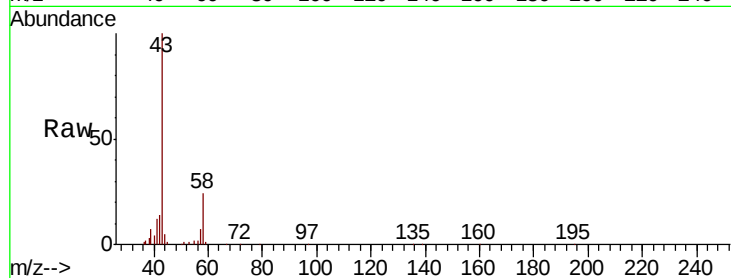
IA-4DL

Tot Ion: 43 Resp: 155610

Ion Ratio Lower Upper

43 100

58 25.7 21.7 32.5



#17

tert-Butyl alcohol

Concen: 0.129 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL034989.D

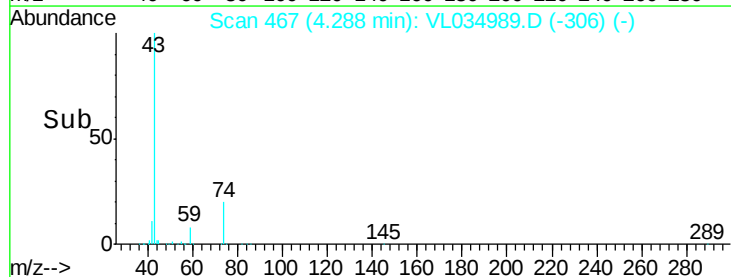
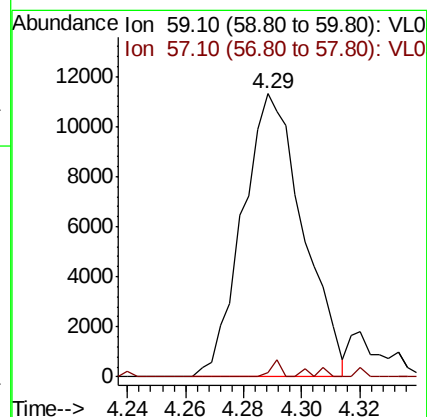
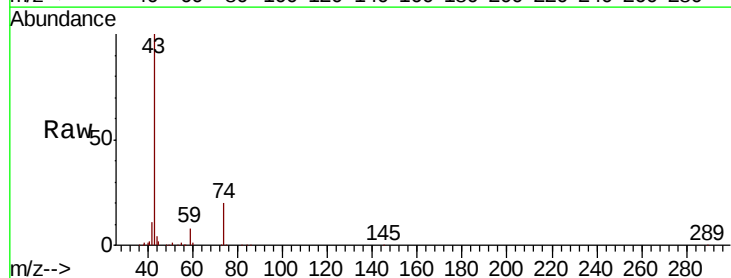
Acq: 12 May 2020 16:23

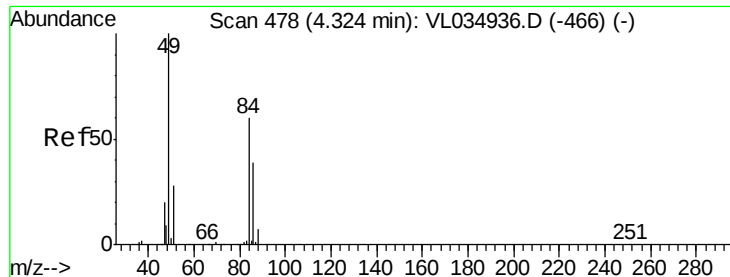
Tgt Ion: 59 Resp: 16377

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#

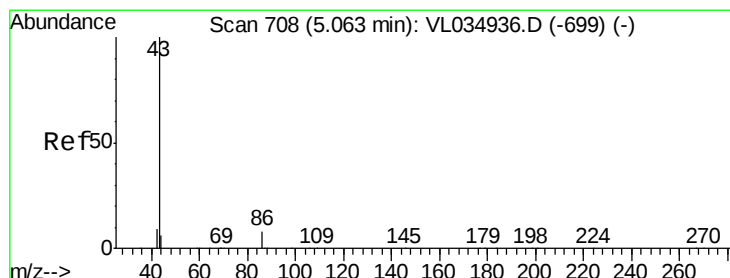
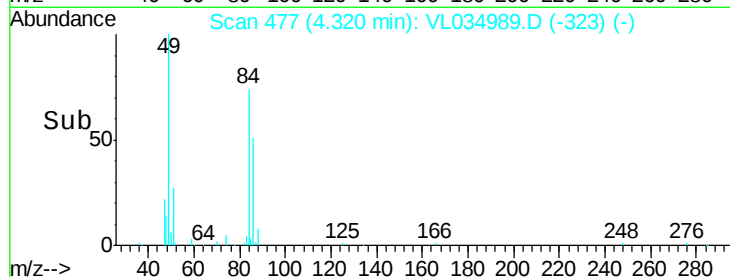
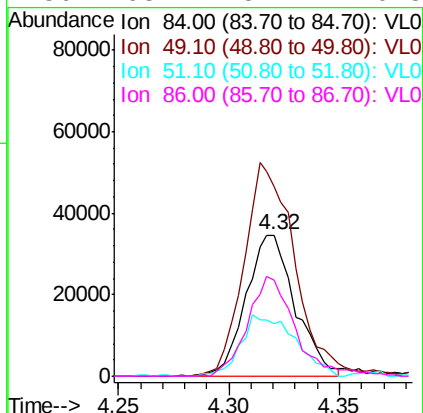
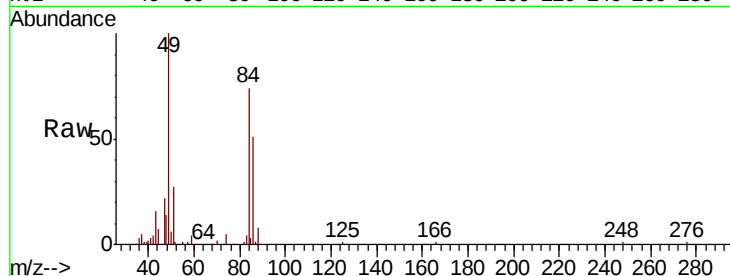




#20
Methvlene Chloride
Concen: 1.134 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.00 min
Lab File: VL034989.D
Acq: 12 May 2020 16:23

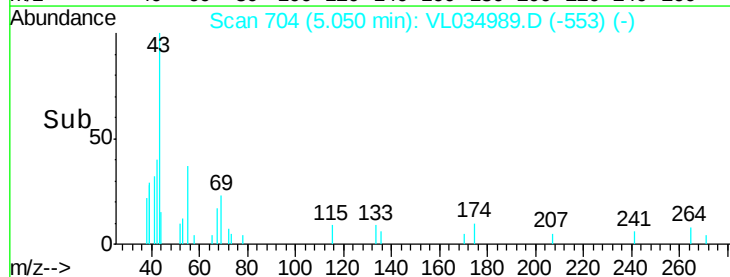
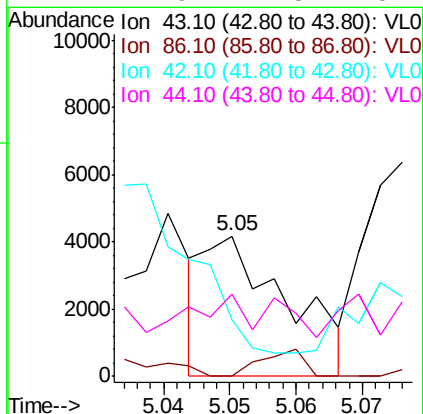
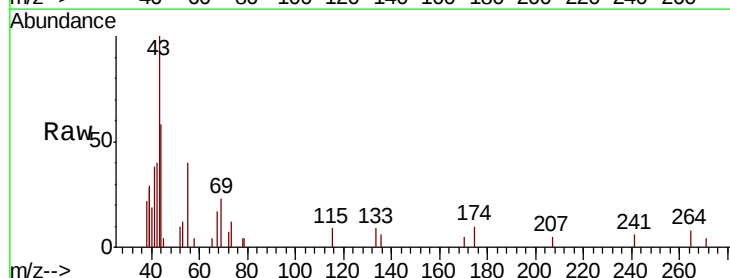
Instrument :
MSVOA_L
ClientSampled :
IA-4DL

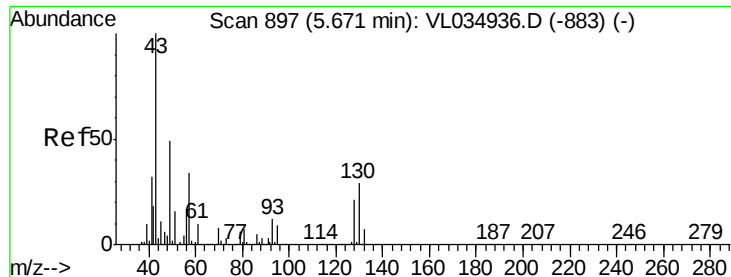
Tot Ion	84	Resp	53465
Ion	Ratio	Lower	Upper
84	100		
49	133.7	132.5	198.7
51	37.6	38.4	57.6#
86	68.2	51.2	76.8



#23
Vinyl Acetate
Concen: 0.020 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.01 min
Lab File: VL034989.D
Acq: 12 May 2020 16:23

Tgt Ion	43	Resp	3632
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	0.0	8.0	12.0#
44	24.9	4.5	6.7#





#25

Ethyl Acetate

Concen: 0.198 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

IA-4DL

Tot Ion: 43 Resp: 47479

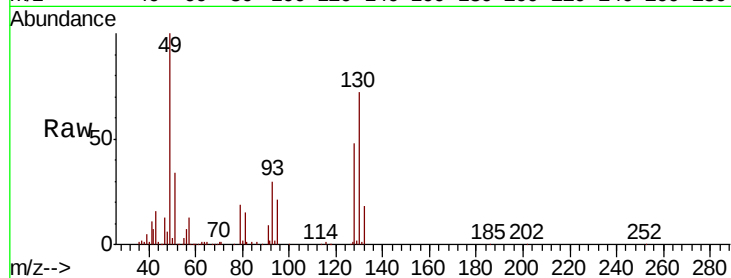
Ion Ratio Lower Upper

43 100

45 6.0 8.1 12.1#

61 0.0 7.8 11.8#

70 1.9 6.0 9.0#

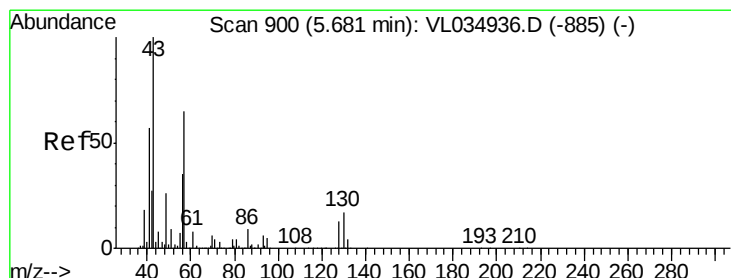
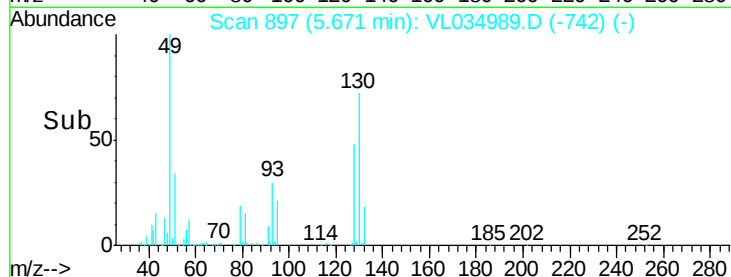
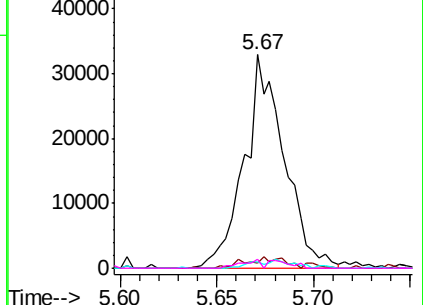


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.415 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Tgt Ion: 57 Resp: 43054

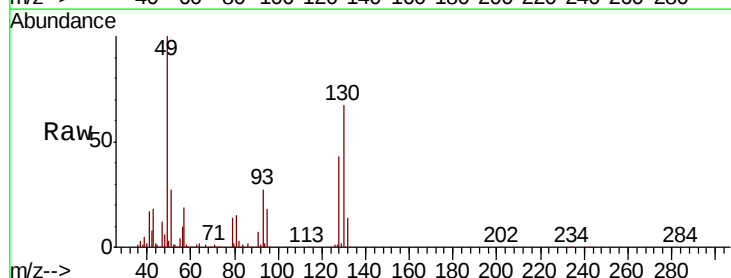
Ion Ratio Lower Upper

57 100

41 100.4 72.7 109.1

43 113.1 182.1 273.1#

56 57.3 42.2 63.2

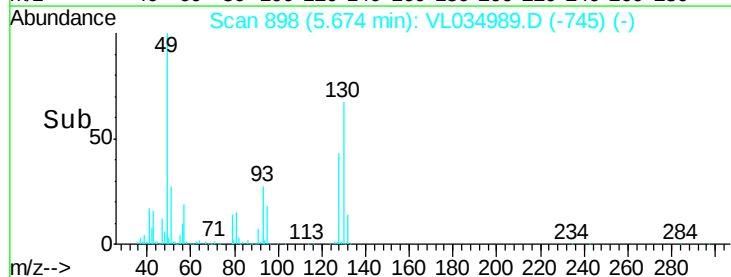
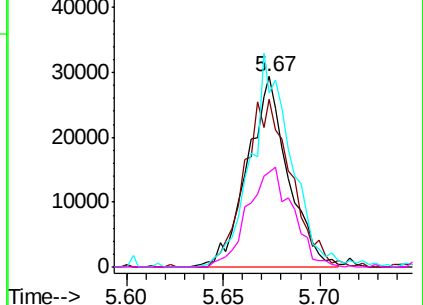


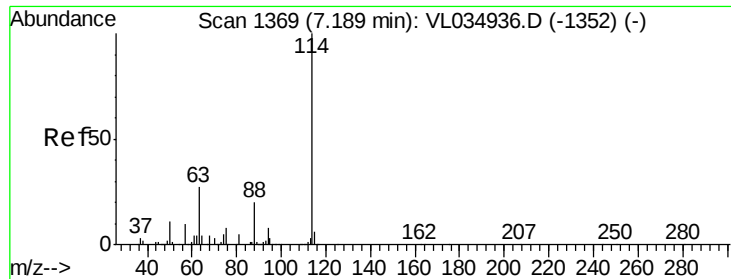
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

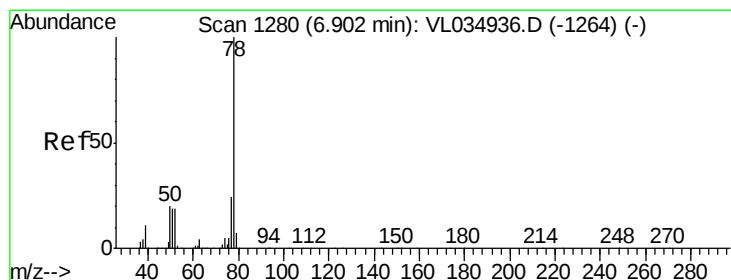
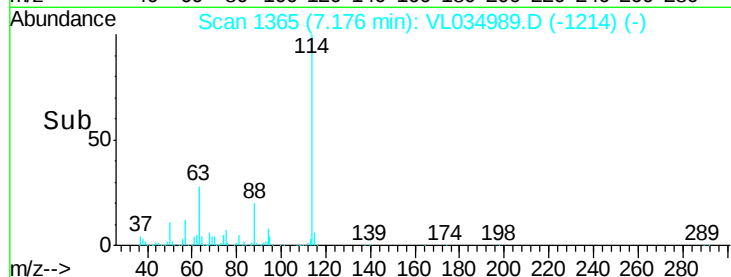
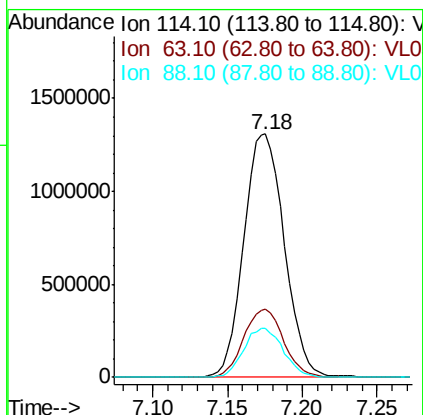
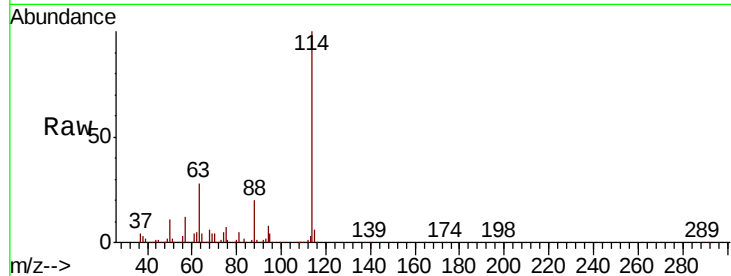




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034989.D
 Acq: 12 May 2020 16:23

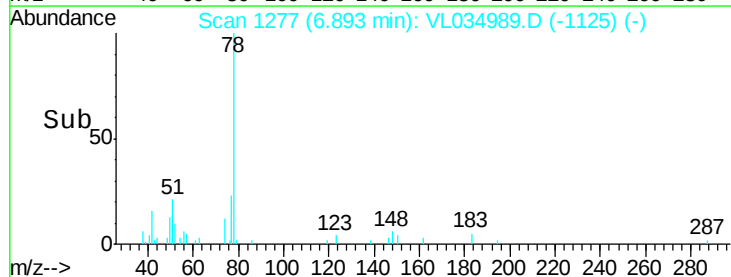
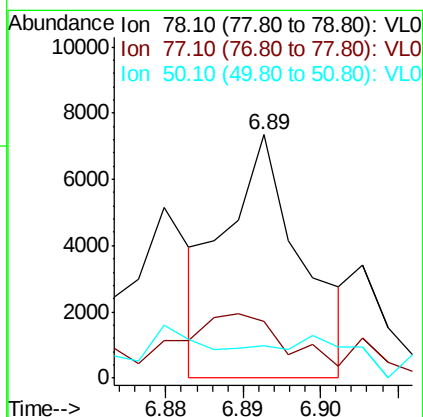
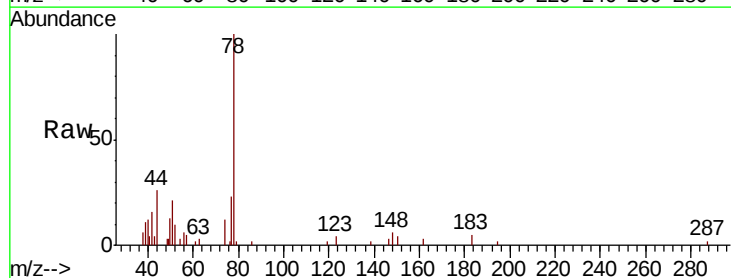
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

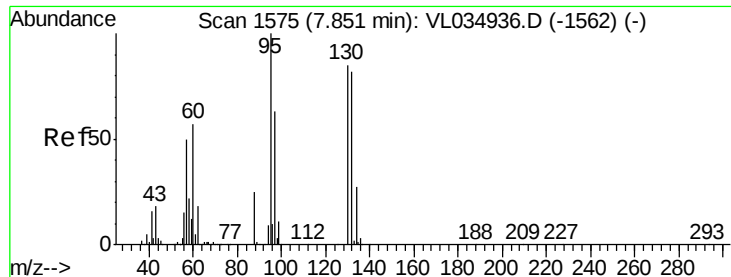
Tot Ion:114 Resp: 2467773
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.2 33.4
 88 19.7 15.5 23.3



#36
 Benzene
 Concen: 0.025 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VL034989.D
 Acq: 12 May 2020 16:23

Tgt Ion: 78 Resp: 5055
 Ion Ratio Lower Upper
 78 100
 77 29.6 19.0 28.6#
 50 0.4 15.8 23.8#

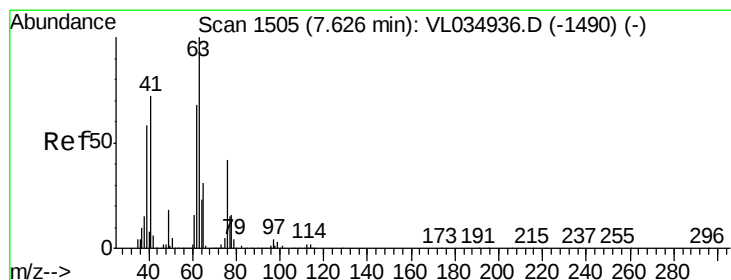
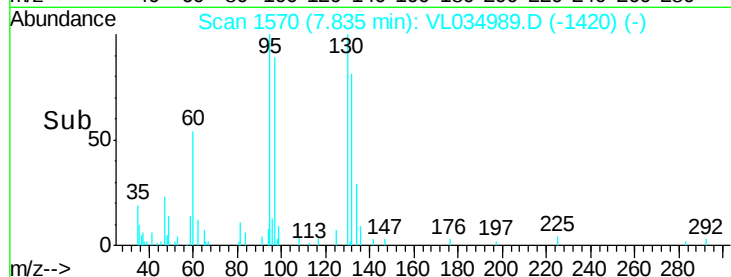
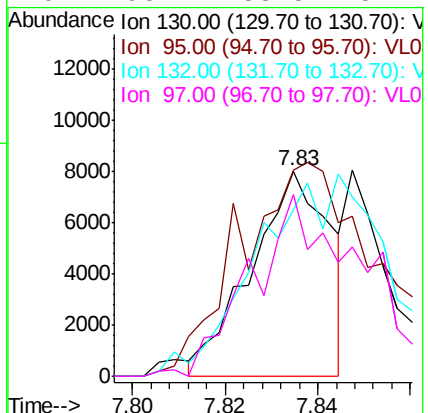
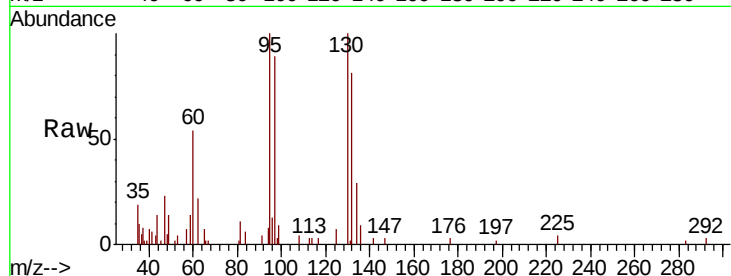




#38
 Trichloroethene
 Concen: 0.119 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.02 min
 Lab File: VL034989.D
 Acq: 12 May 2020 16:23

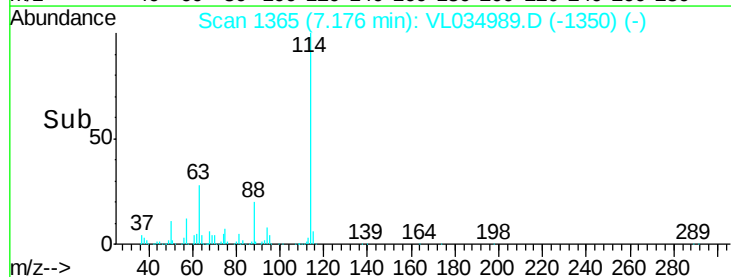
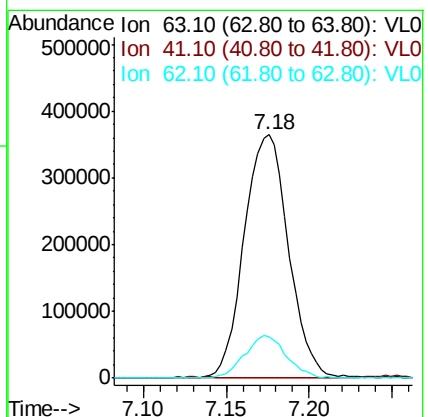
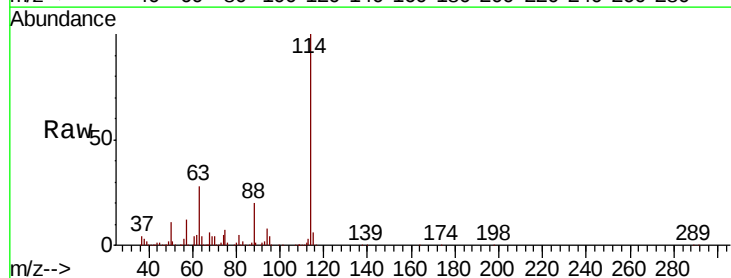
Instrument :
 MSVOA_L
 ClientSampleID :
 IA-4DL

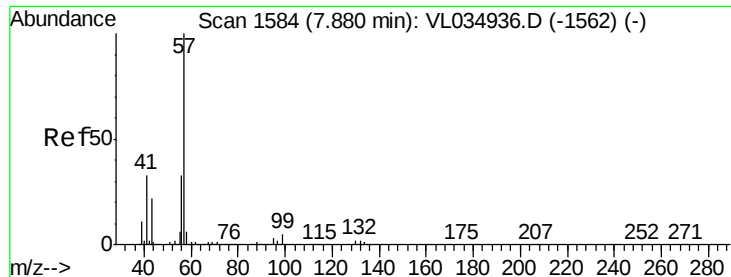
Tot Ion:130 Resp: 9366
 Ion Ratio Lower Upper
 130 100
 95 87.4 93.4 140.0#
 132 80.7 76.4 114.6
 97 96.1 58.5 87.7#



#39
 1,2-Dichloropropane
 Concen: 8.303 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034989.D
 Acq: 12 May 2020 16:23

Tgt Ion: 63 Resp: 677202
 Ion Ratio Lower Upper
 63 100
 41 0.2 57.8 86.8#
 62 16.8 54.2 81.2#

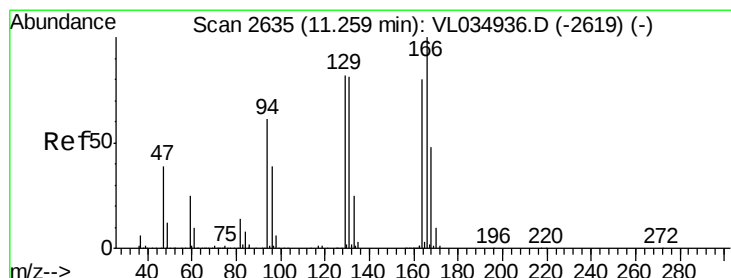
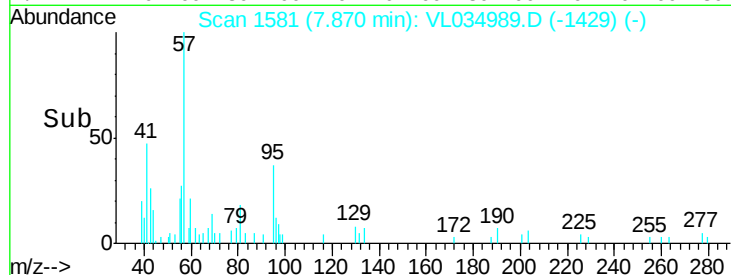
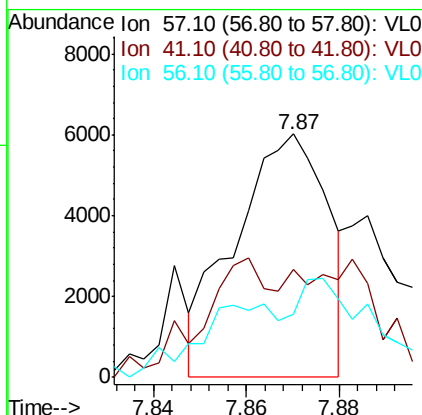
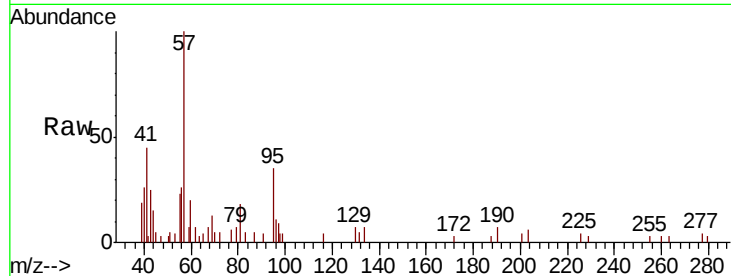




#44
 2,2,4-Trimethylpentane
 Concen: 0.023 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: VL034989.D
 Acq: 12 May 2020 16:23

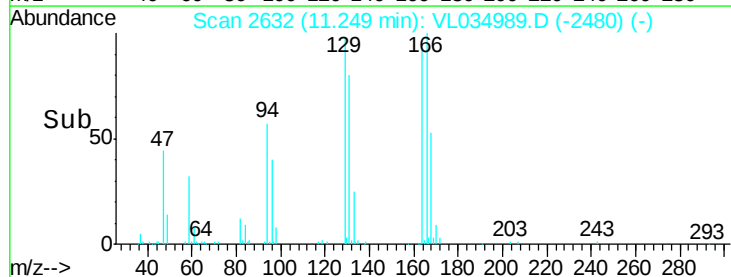
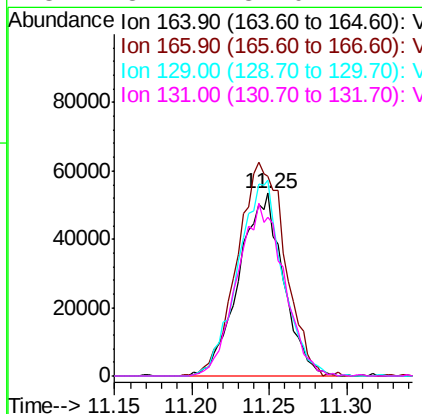
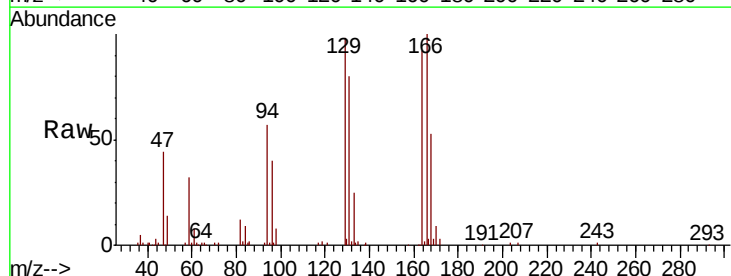
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4DL

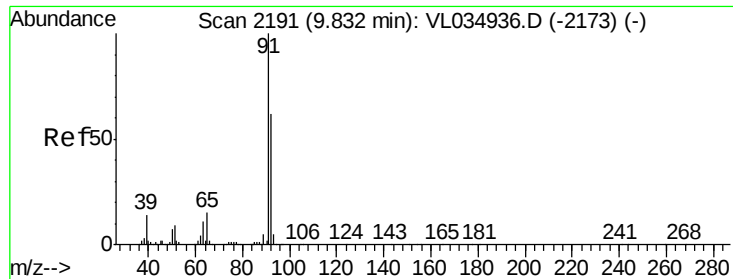
Tot Ion	57	Resp	8361
Ion Ratio	Lower	Upper	
57	100		
41	86.2	26.4	39.6#
56	63.7	25.5	38.3#



#52
 Tetrachloroethene
 Concen: 1.475 ppbv
 RT: 11.25 min Scan# 2632
 Delta R.T. -0.01 min
 Lab File: VL034989.D
 Acq: 12 May 2020 16:23

Tgt Ion	164	Resp	106700
Ion Ratio	Lower	Upper	
164	100		
166	108.2	100.7	151.1
129	107.3	83.0	124.4
131	87.2	81.0	121.4





#53

Toluene

Concen: 0.924 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

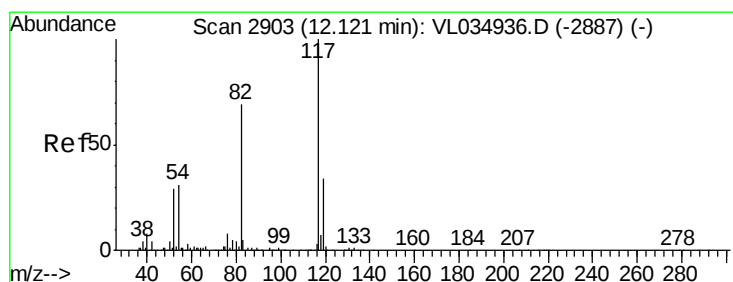
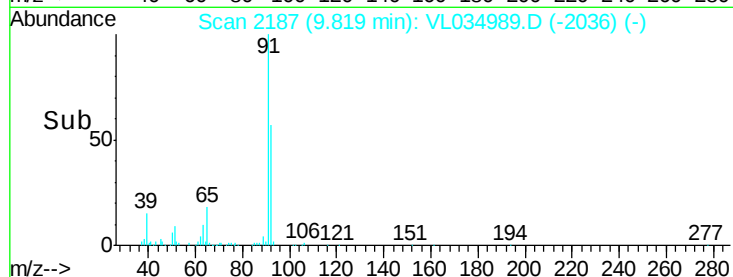
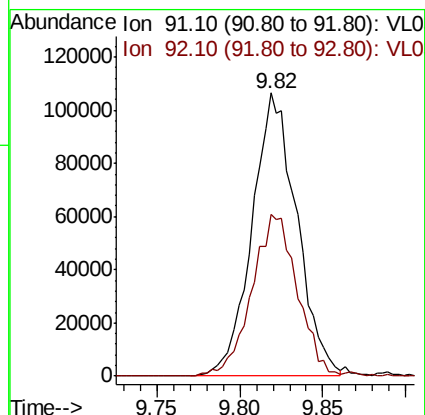
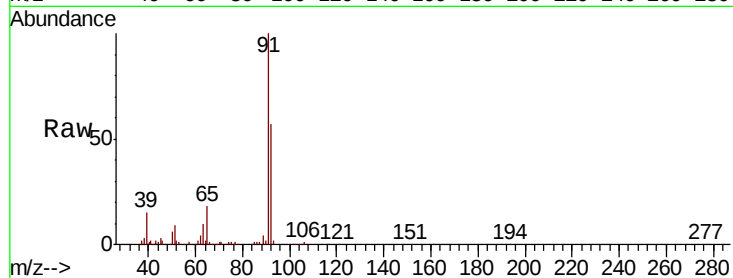
IA-4DL

Tot Ion: 91 Resp: 199225

Ion Ratio Lower Upper

91 100

92 58.7 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

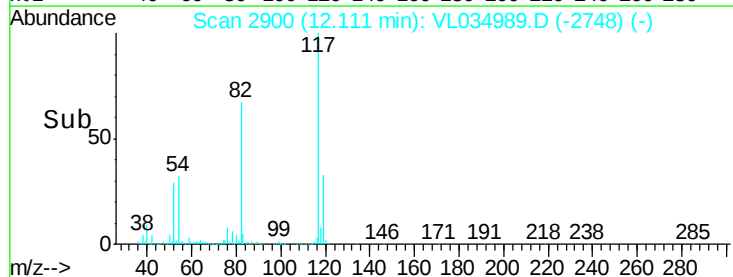
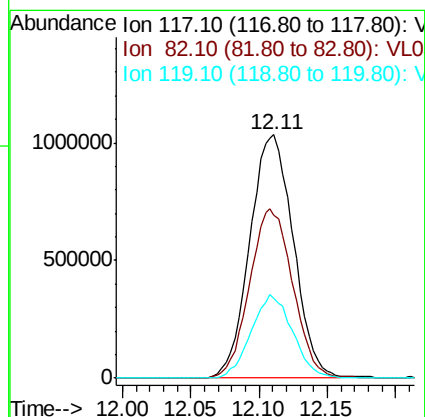
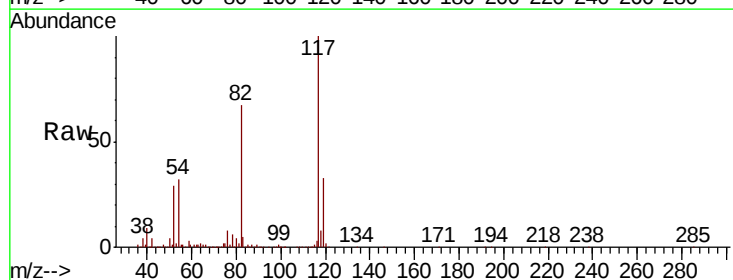
Tgt Ion: 117 Resp: 2285049

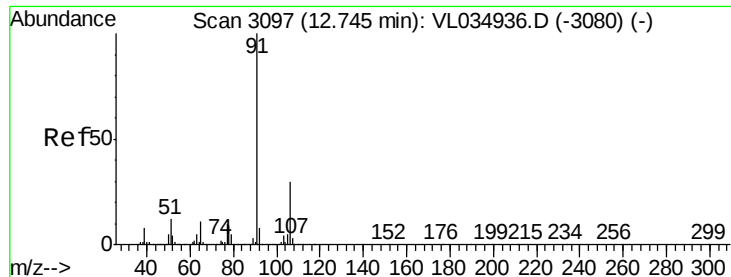
Ion Ratio Lower Upper

117 100

82 69.3 53.1 79.7

119 32.9 26.7 40.1





#58

Ethyl Benzene

Concen: 0.021 ppbv

RT: 12.73 min Scan# 3091

Delta R.T. -0.02 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Instrument :

MSVOA_L

ClientSampleId :

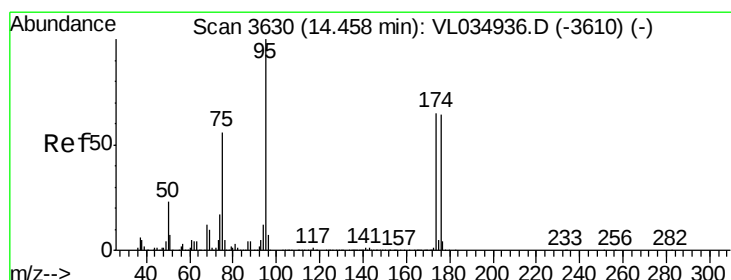
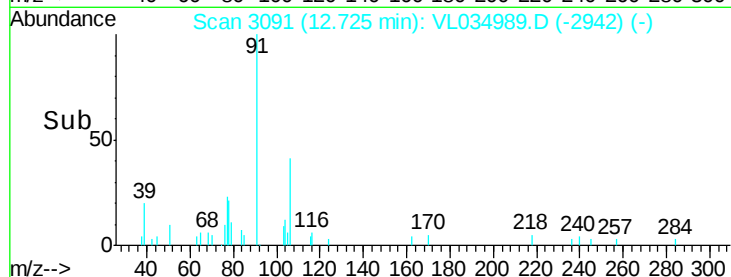
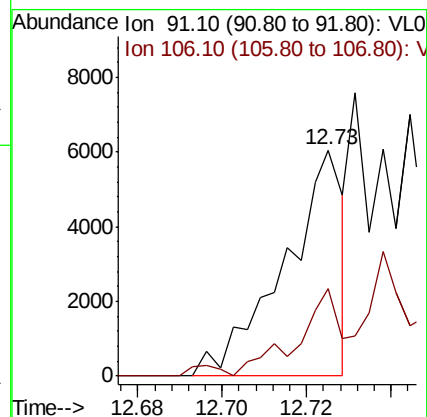
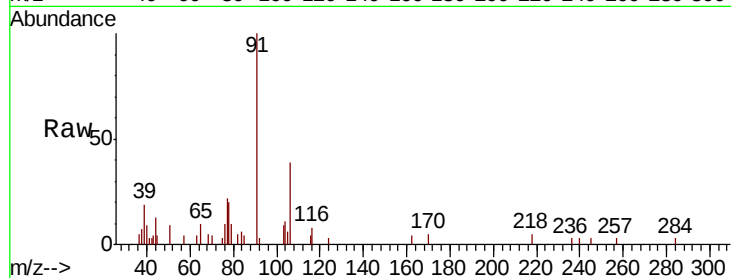
IA-4DL

Tot Ion: 91 Resp: 5883

Ion Ratio Lower Upper

91 100

106 33.5 24.2 36.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.135 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.01 min

Lab File: VL034989.D

Acq: 12 May 2020 16:23

Tgt Ion: 95 Resp: 1874575

Ion Ratio Lower Upper

95 100

174 65.0 51.5 77.3

175 4.8 3.8 5.8

