

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035868.D
 Acq On : 5 Nov 2020 20:20
 Operator : SY/AP
 Sample : L4220-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4DL

Quant Time: Nov 06 00:29:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1030986	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4008015	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3699320	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.39	95	2627781	10.00	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%	

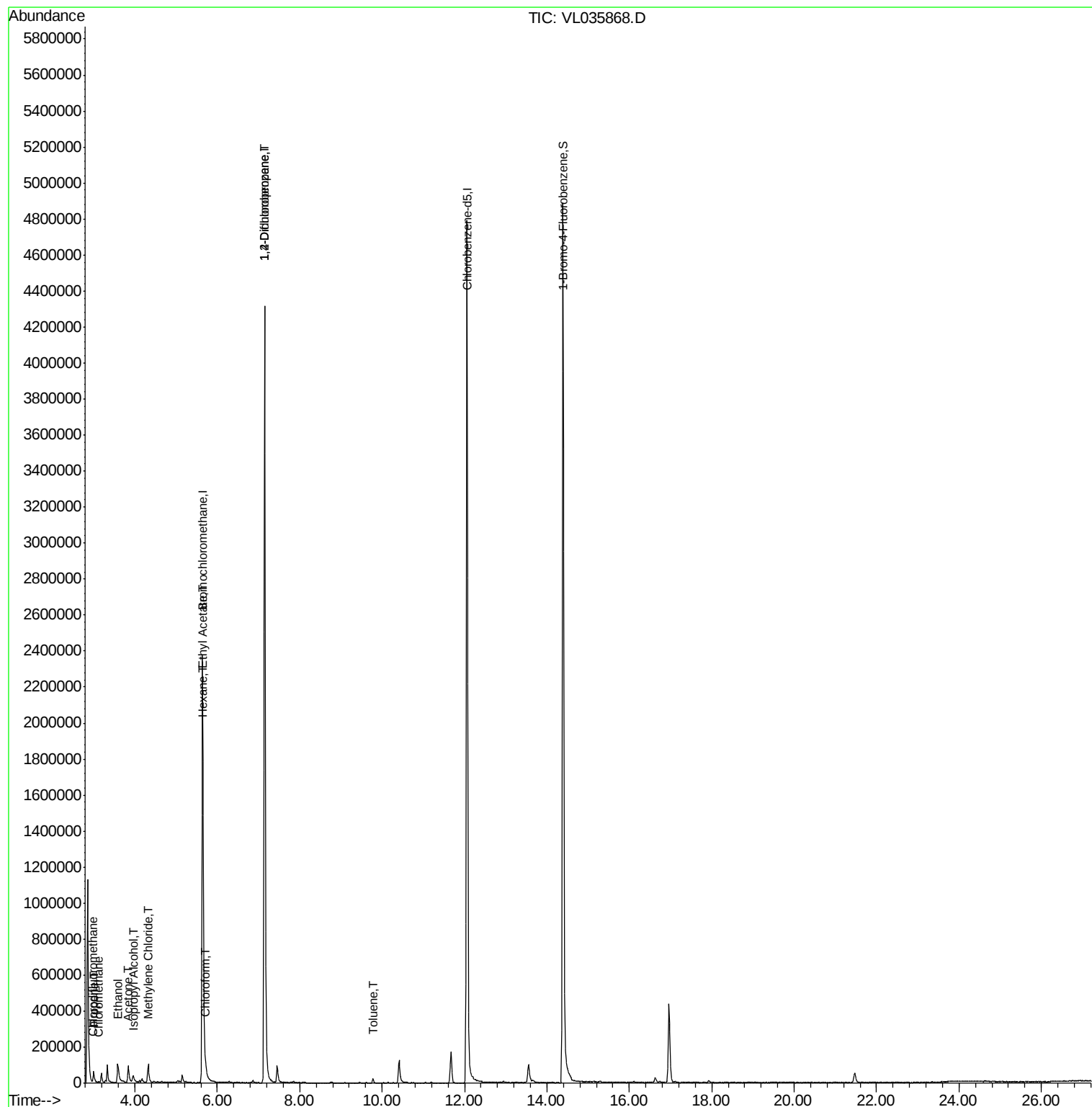
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	7328	0.059	ppbv #	84
4) Chloromethane	3.12	50	4806	0.080	ppbv #	81
9) Propene	3.00	41	18822	0.417	ppbv	87
13) Ethanol	3.58	45	146681	14.962	ppbv	97
15) Acetone	3.83	43	109323	0.992	ppbv #	87
19) Isopropyl Alcohol	3.96	45	27425	0.405	ppbv #	52
20) Methylene Chloride	4.32	84	57934	0.747	ppbv	88
25) Ethyl Acetate	5.66	43	18208	0.084	ppbv #	79
26) Hexane	5.66	57	29122	0.243	ppbv #	46
29) Chloroform	5.72	83	8393	0.036	ppbv	93
39) 1,2-Dichloropropane	7.15	63	783847	7.814	ppbv #	30
53) Toluene	9.78	91	18810	0.052	ppbv	96

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

IA4DL

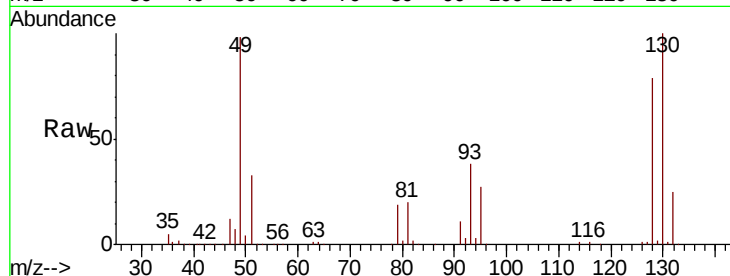
Tot Ion: 49 Resp: 1030986

Ion Ratio Lower Upper

49 100

128 84.5 41.5 124.6

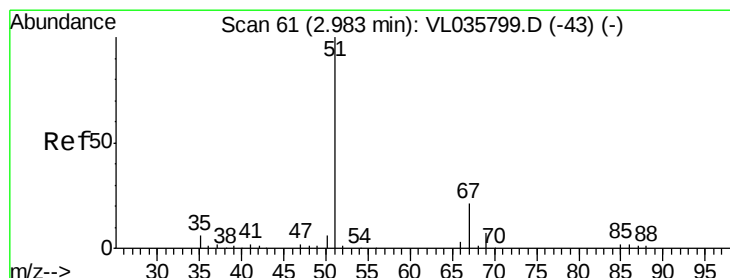
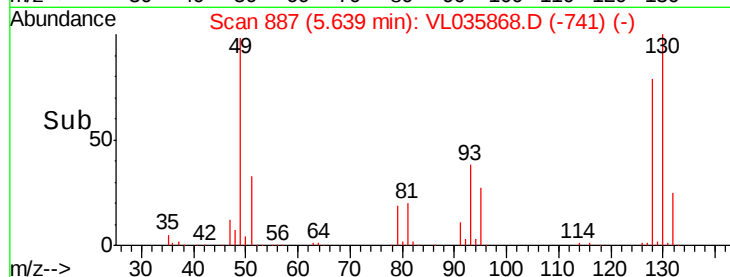
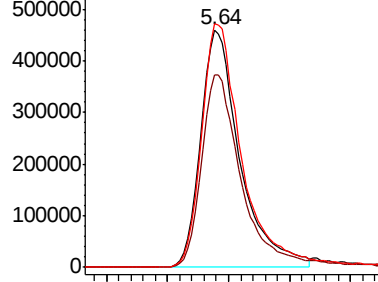
130 107.9 53.7 161.1



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



#3

Chlorodifluoromethane

Concen: 0.059 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035868.D

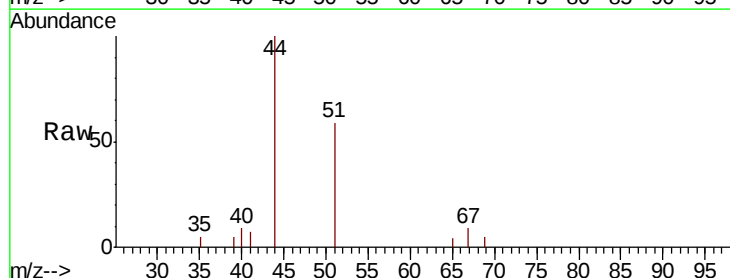
Acq: 5 Nov 2020 20:20

Tgt Ion: 51 Resp: 7328

Ion Ratio Lower Upper

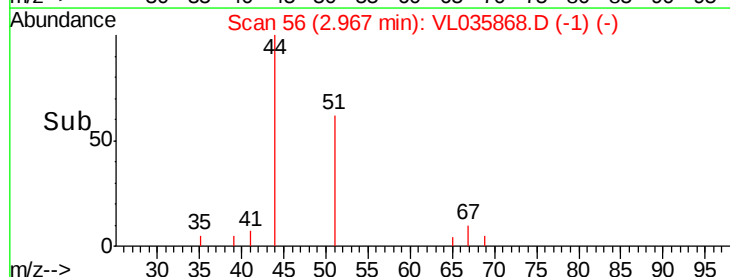
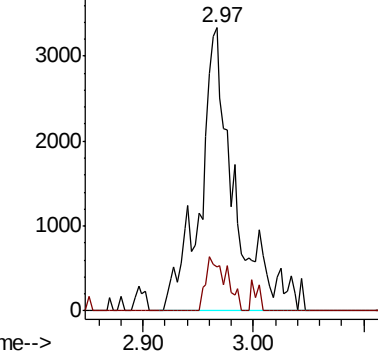
51 100

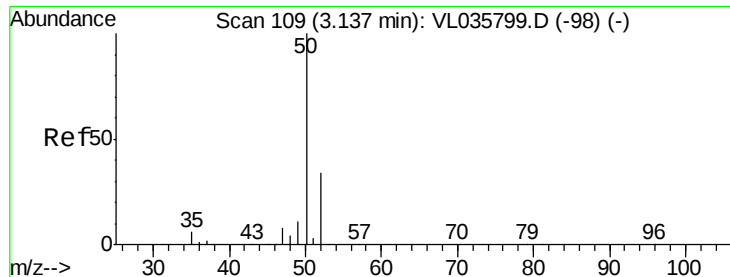
67 13.5 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.080 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

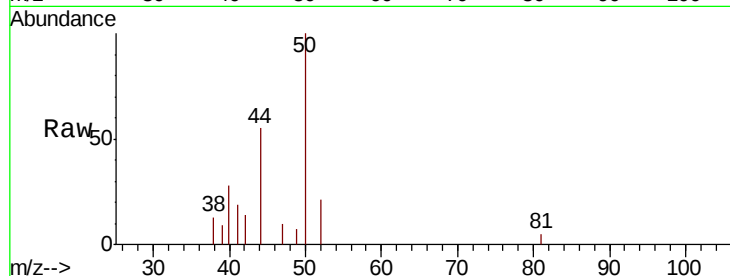
IA4DL

Tot Ion: 50 Resp: 4806

Ion Ratio Lower Upper

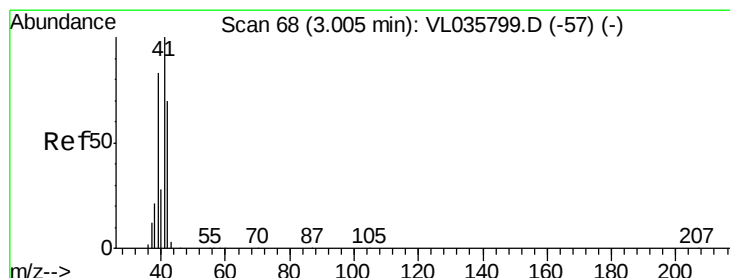
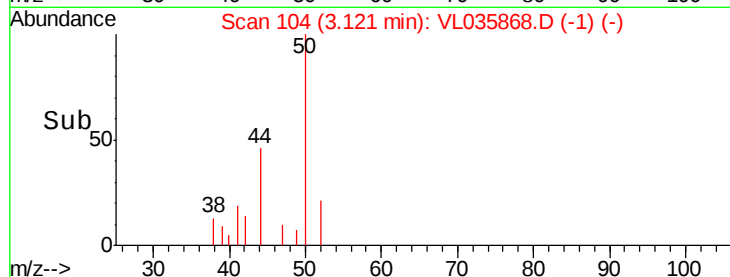
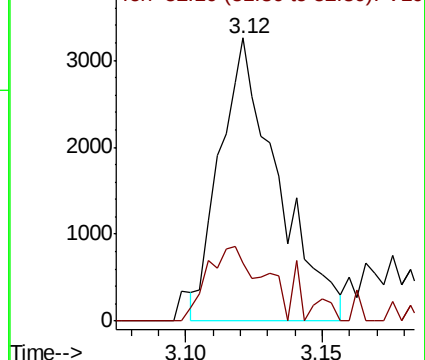
50 100

52 22.8 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.417 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035868.D

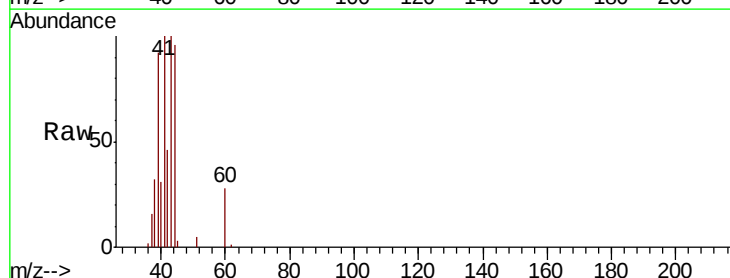
Acq: 5 Nov 2020 20:20

Tgt Ion: 41 Resp: 18822

Ion Ratio Lower Upper

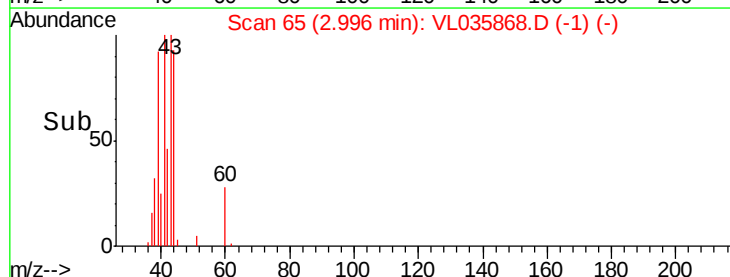
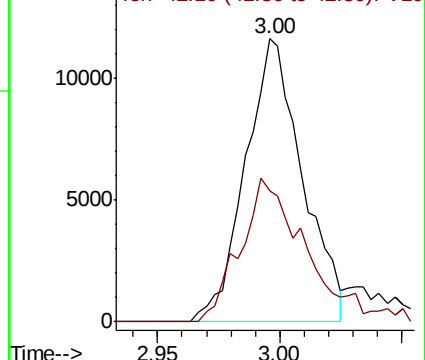
41 100

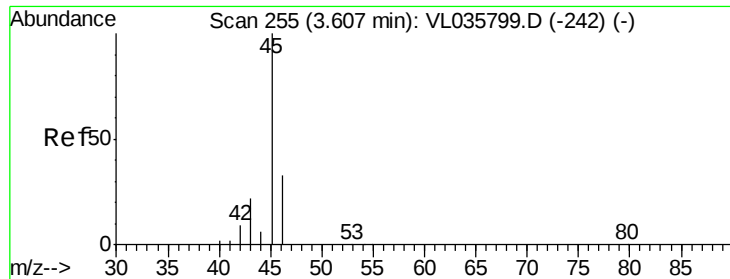
42 59.9 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 14.962 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.03 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Instrument :

MSVOA_L

ClientSampleID :

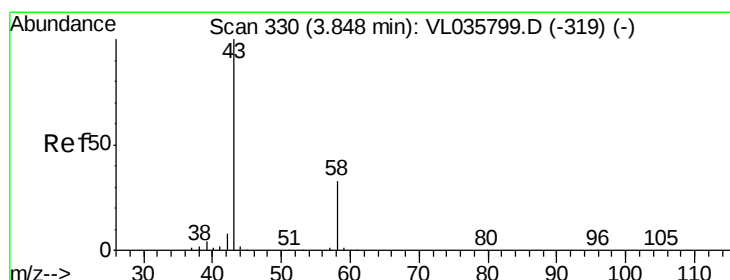
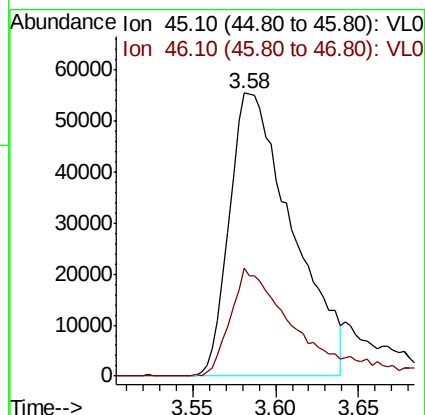
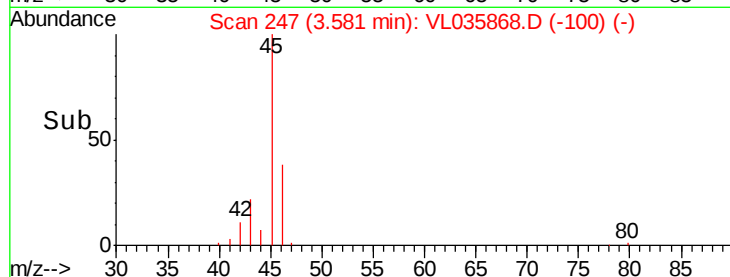
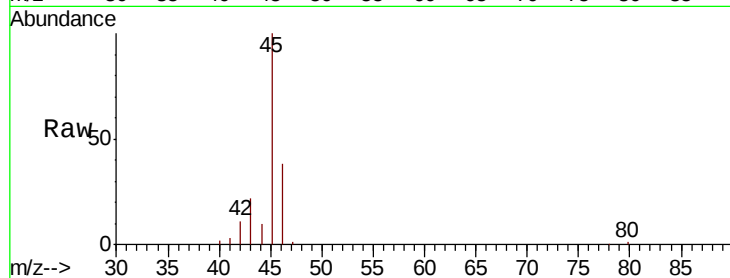
IA4DL

Tot Ion: 45 Resp: 146681

Ion Ratio Lower Upper

45 100

46 42.4 16.1 64.5



#15

Acetone

Concen: 0.992 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL035868.D

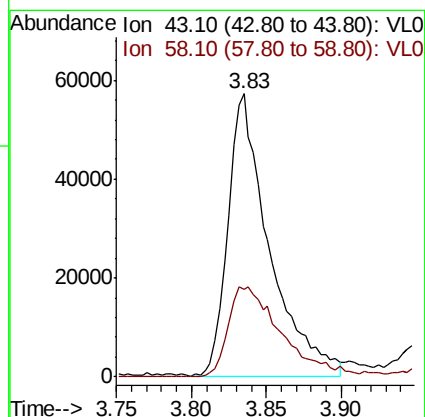
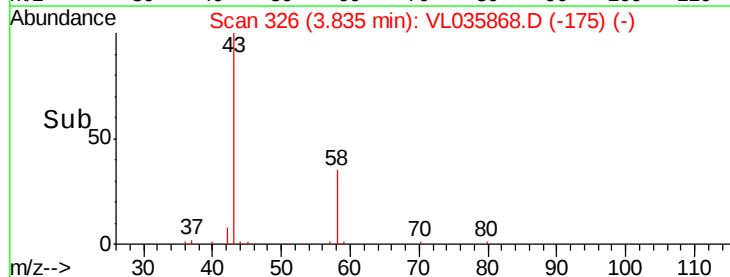
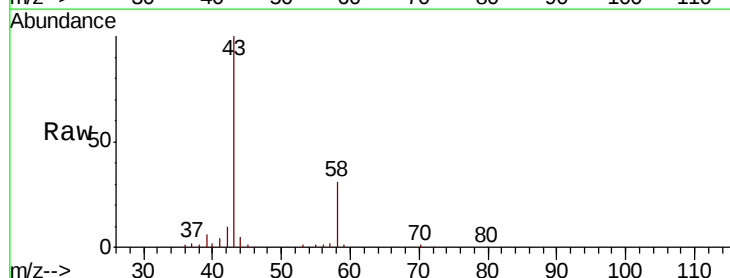
Acq: 5 Nov 2020 20:20

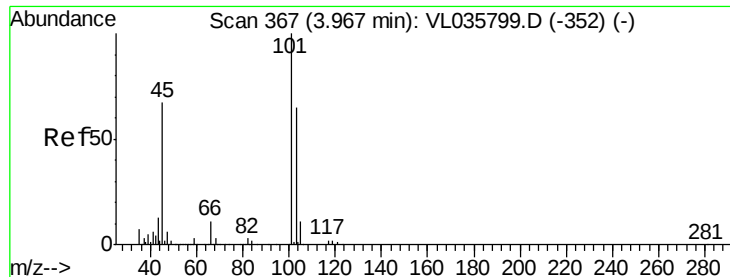
Tgt Ion: 43 Resp: 109323

Ion Ratio Lower Upper

43 100

58 42.0 27.5 41.3#





#19

Isopropyl Alcohol

Concen: 0.405 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

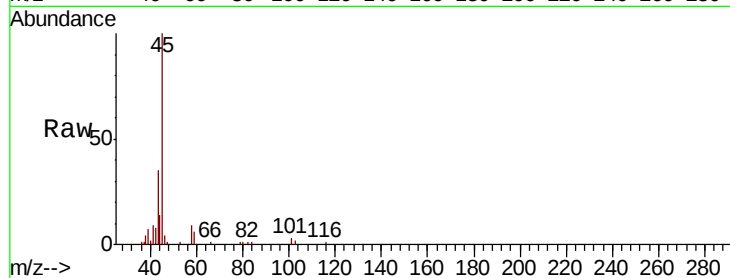
IA4DL

Tot Ion: 45 Resp: 27425

Ion Ratio Lower Upper

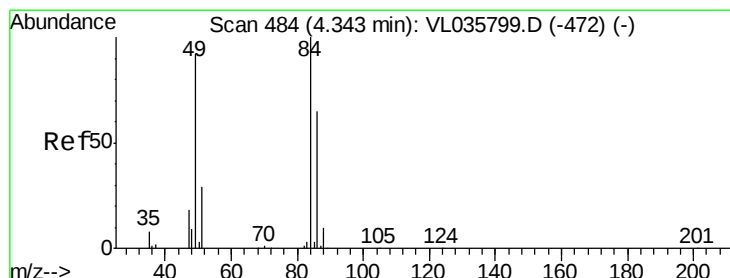
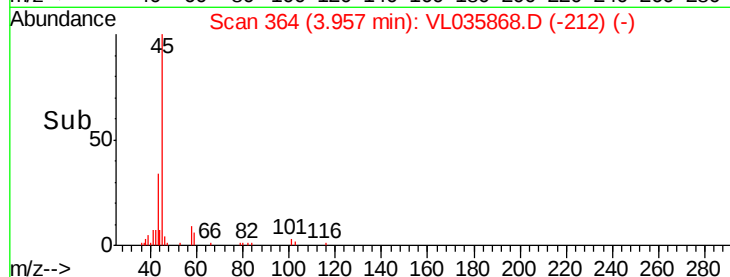
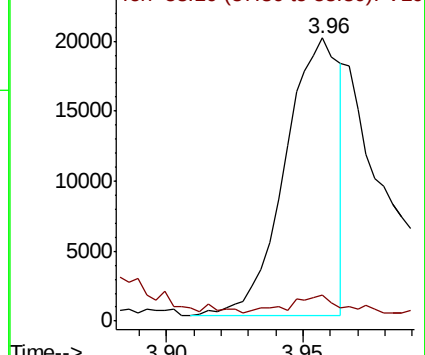
45 100

58 18.9 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.747 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Tgt Ion: 84 Resp: 57934

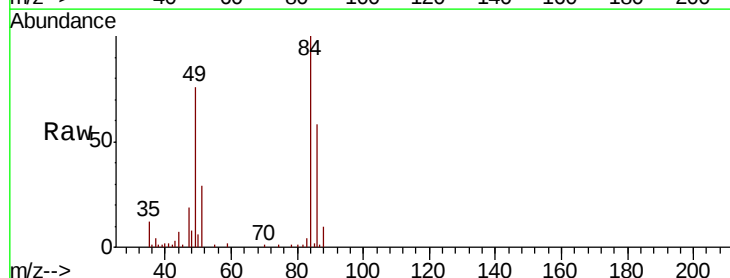
Ion Ratio Lower Upper

84 100

49 76.0 73.8 110.8

51 29.4 23.0 34.4

86 58.5 52.1 78.1

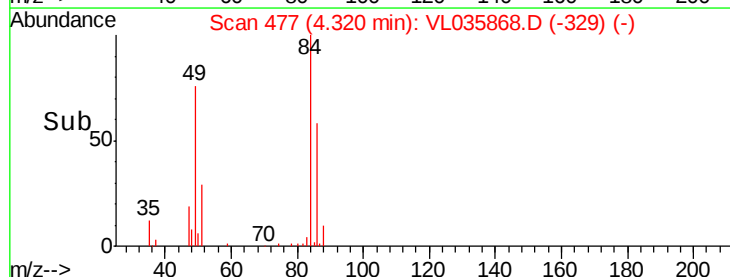
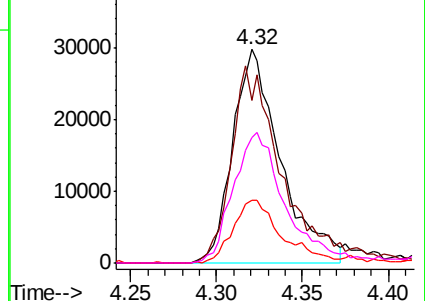


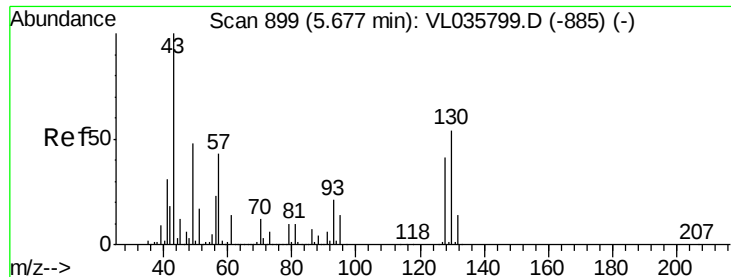
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

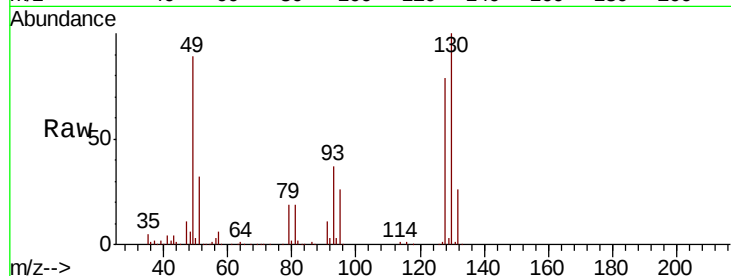




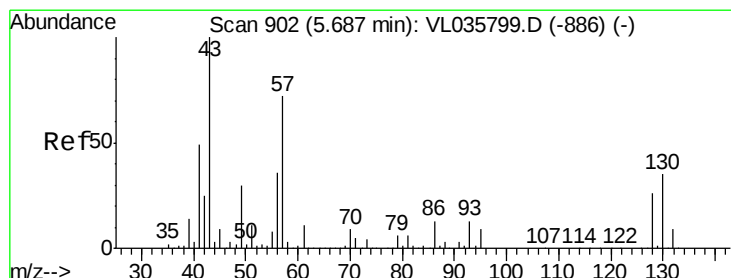
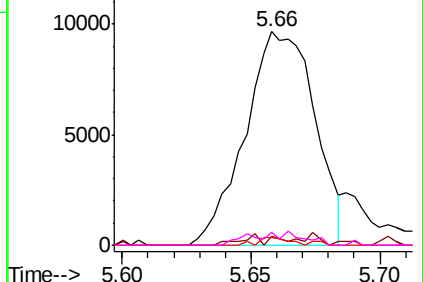
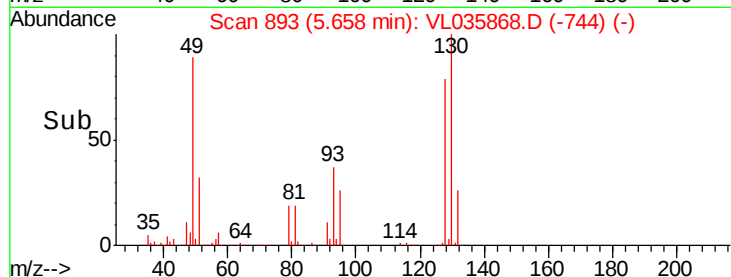
#25
Ethyl Acetate
Concen: 0.084 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035868.D
Acq: 5 Nov 2020 20:20

Instrument :
MSVOA_L
ClientSampleID :
IA4DL

Tot Ion:	43	Resp:	18208
Ion	Ratio	Lower	Upper
43	100		
45	3.6	8.5	12.7#
61	2.0	10.7	16.1#
70	4.9	8.6	12.8#

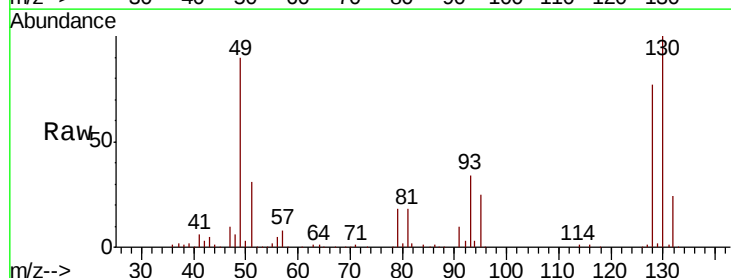


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

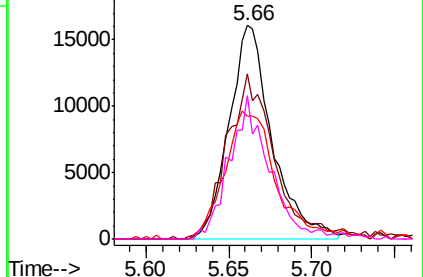
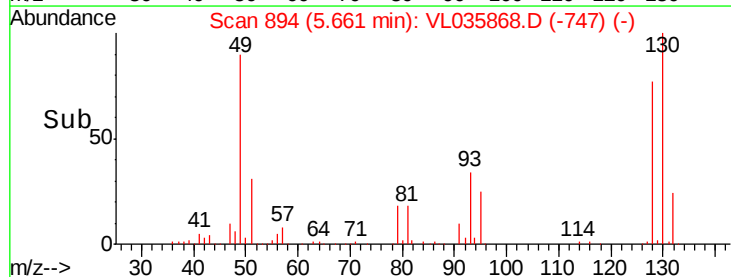


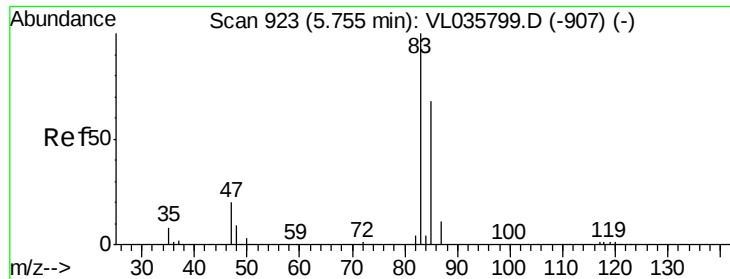
#26
Hexane
Concen: 0.243 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035868.D
Acq: 5 Nov 2020 20:20

Tgt Ion:	57	Resp:	29122
Ion	Ratio	Lower	Upper
57	100		
41	87.1	58.9	88.3
43	72.3	150.2	225.2#
56	63.3	42.4	63.6



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





#29

Chloroform

Concen: 0.036 ppbv

RT: 5.72 min Scan# 912

Delta R.T. -0.04 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Instrument :

MSVOA_L

ClientSampleId :

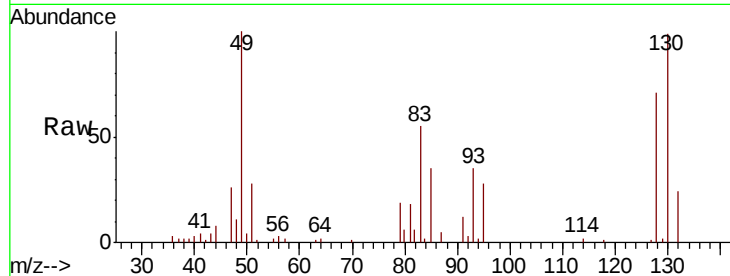
IA4DL

Tot Ion: 83 Resp: 8393

Ion Ratio Lower Upper

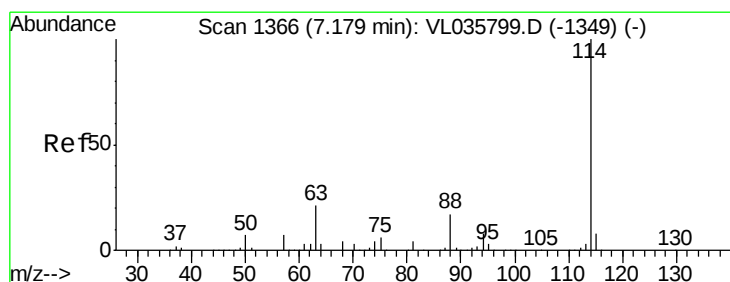
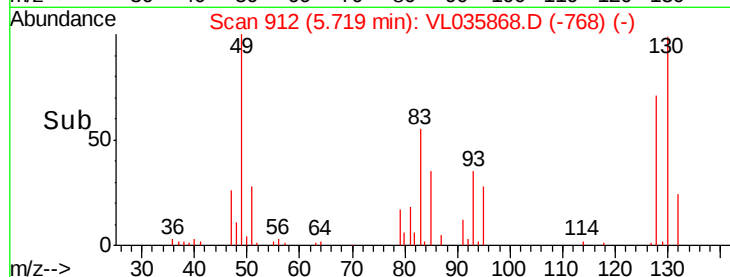
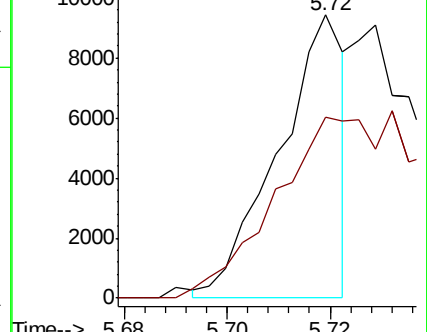
83 100

85 62.2 54.6 81.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.03 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

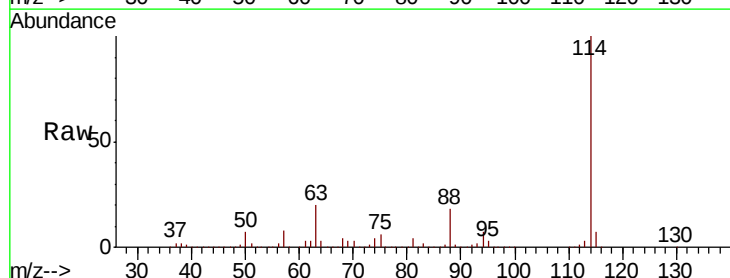
Tgt Ion: 114 Resp: 4008015

Ion Ratio Lower Upper

114 100

63 19.9 16.1 24.1

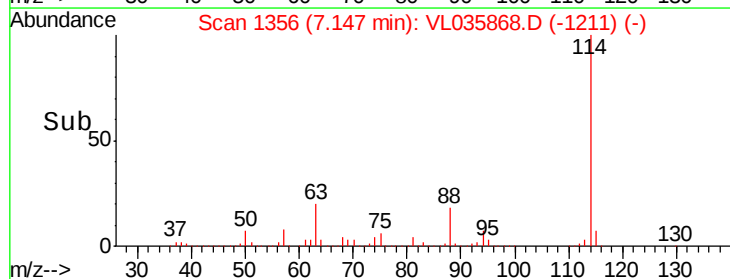
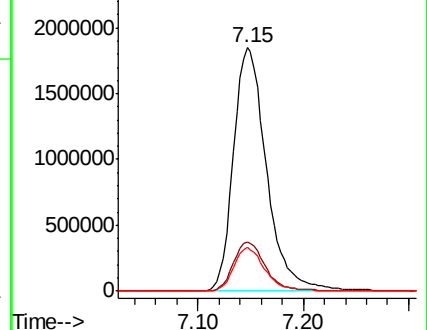
88 17.2 13.7 20.5

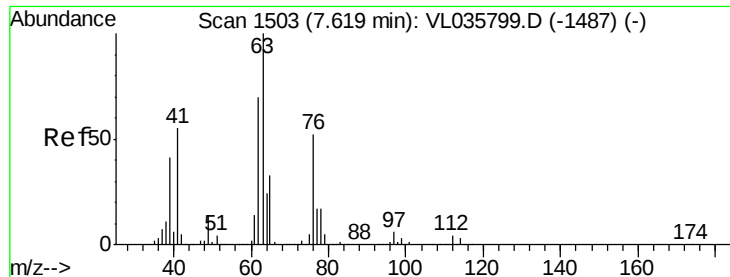


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 7.814 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.47 min

Lab File: VL035868.D

Acq: 5 Nov 2020 20:20

Instrument :

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ClientSampleId :

IA4DL

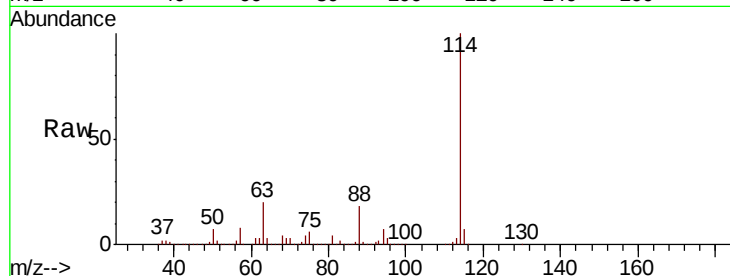
Tot Ion: 63 Resp: 783847

Ion Ratio Lower Upper

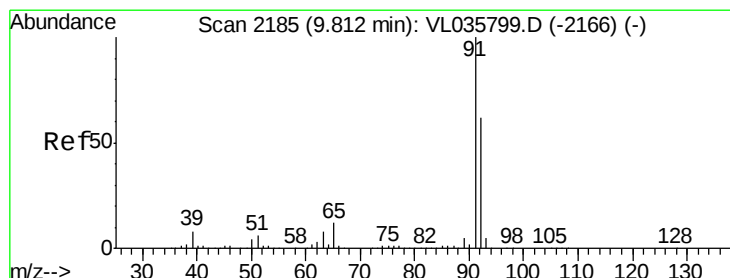
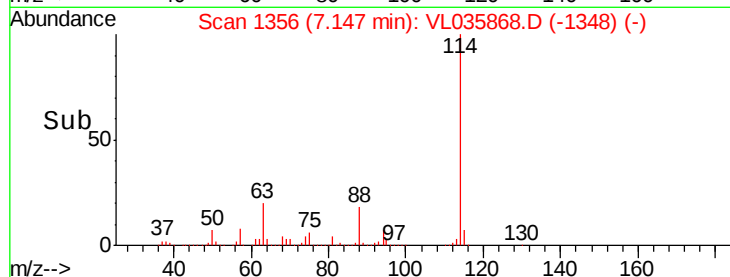
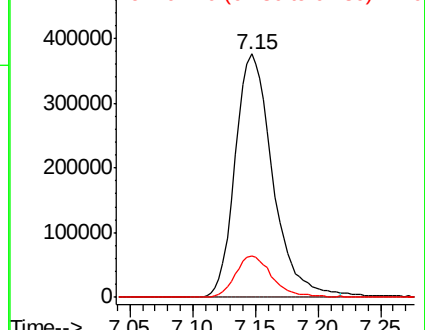
63 100

41 0.0 43.8 65.6#

62 16.9 56.2 84.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.052 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL035868.D

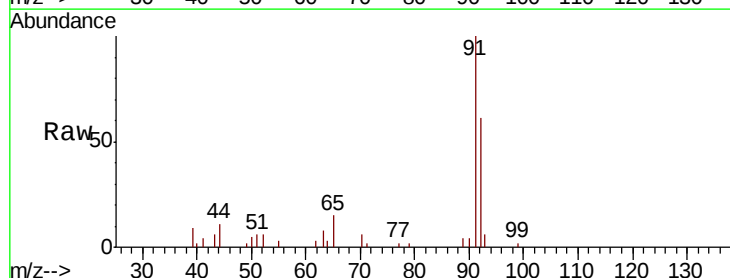
Acq: 5 Nov 2020 20:20

Tgt Ion: 91 Resp: 18810

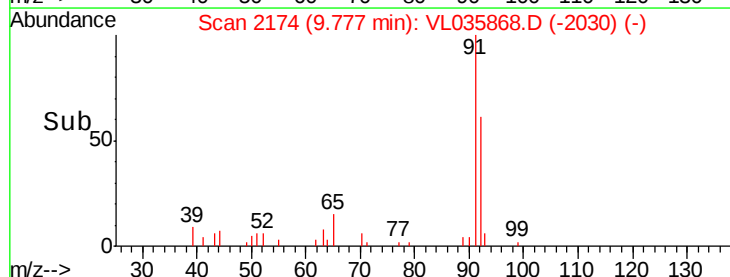
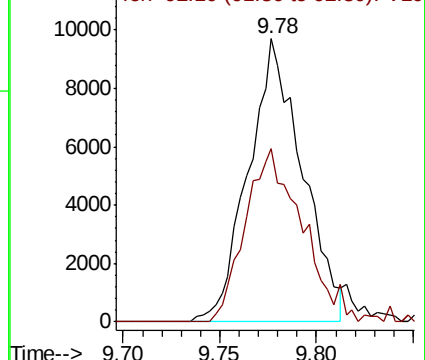
Ion Ratio Lower Upper

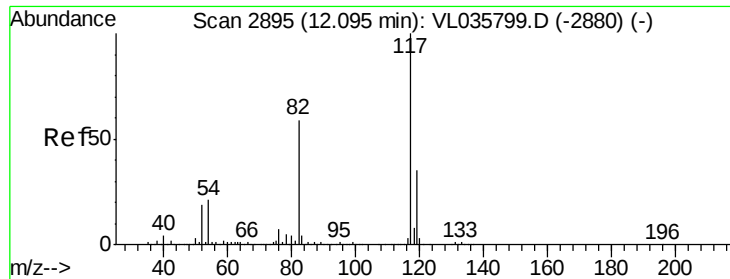
91 100

92 65.7 49.8 74.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

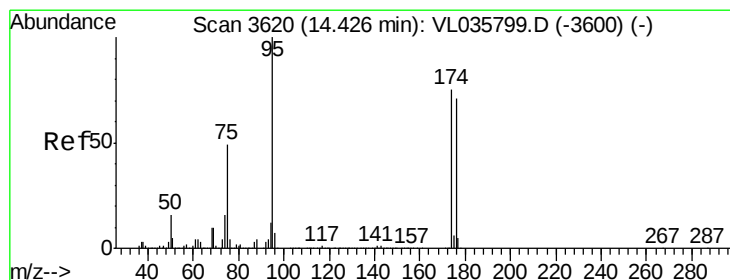
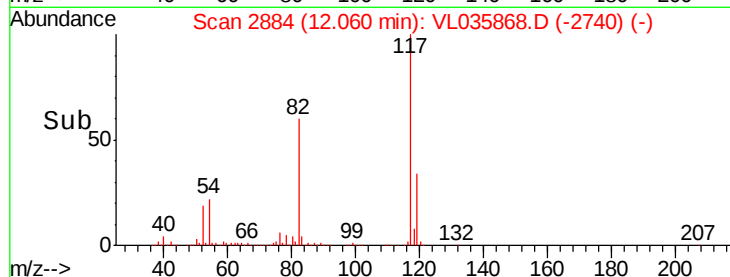
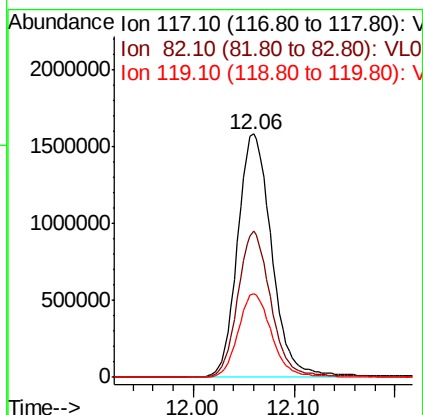
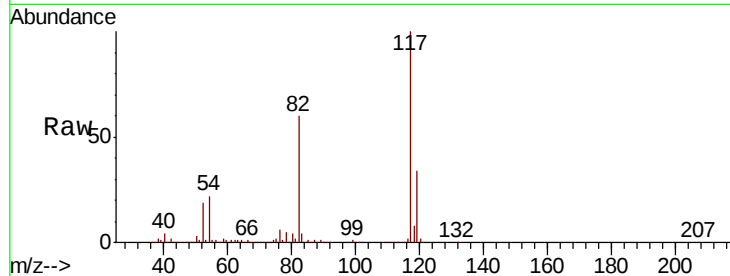




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL035868.D
Acq: 5 Nov 2020 20:20

Instrument :
MSVOA_L
ClientSampleId :
IA4DL

Tot Ion:117 Resp: 3699320
Ion Ratio Lower Upper
117 100
82 59.5 50.6 76.0
119 34.3 52.6 78.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.998 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL035868.D
Acq: 5 Nov 2020 20:20

Tgt Ion: 95 Resp: 2627781
Ion Ratio Lower Upper
95 100
174 76.4 59.8 89.6
175 5.5 4.3 6.5

