

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035871.D
 Acq On : 5 Nov 2020 22:23
 Operator : SY/AP
 Sample : L4618-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Nov 06 00:29:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1023560	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3720493	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3284148	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2404839	10.31	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

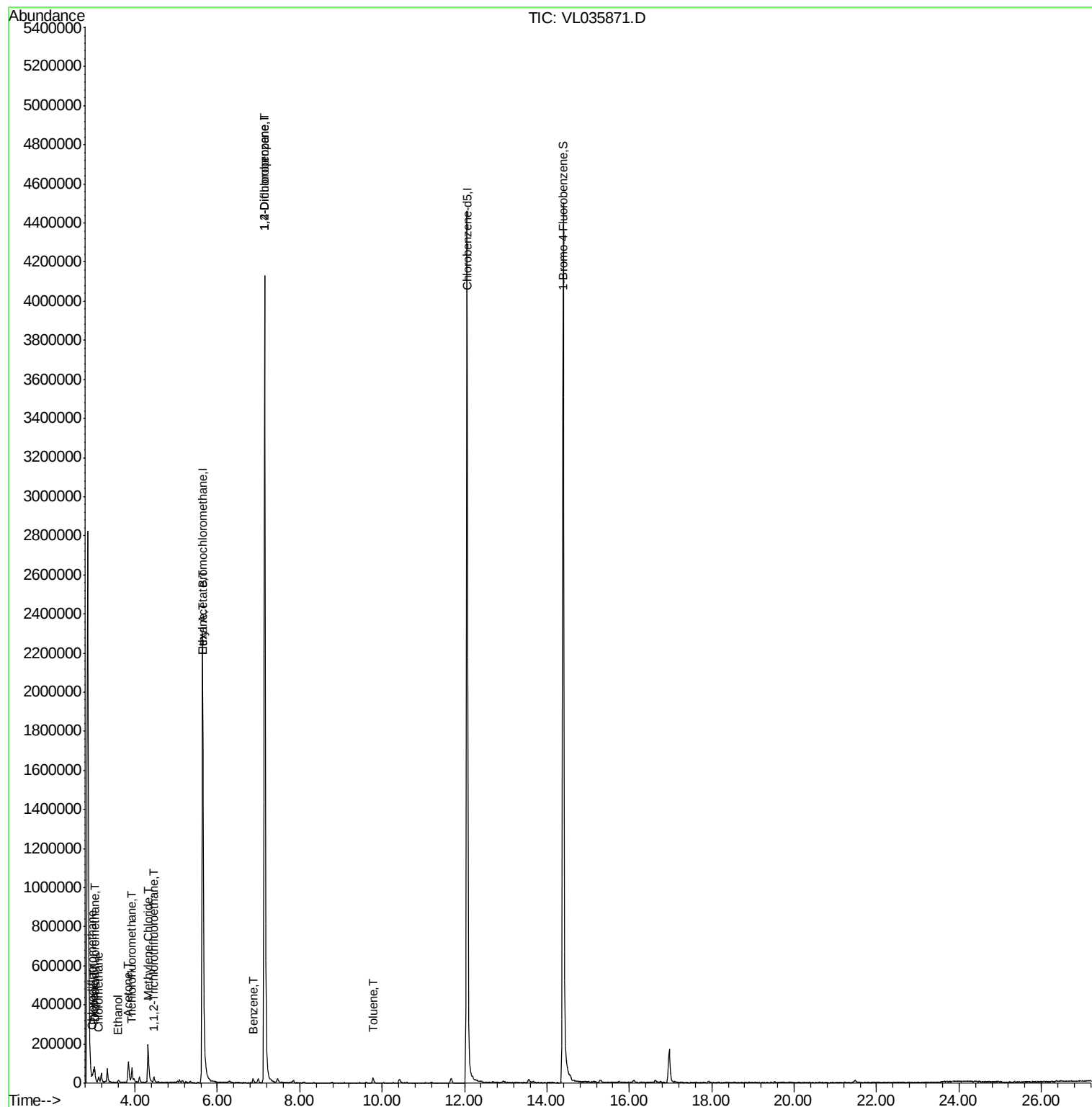
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	56799	0.295	ppbv	97
3) Chlorodifluoromethane	2.97	51	39488	0.322	ppbv	96
4) Chloromethane	3.12	50	14135	0.237	ppbv	89
9) Propene	3.00	41	13077	0.291	ppbv	96
11) Trichlorofluoromethane	3.92	101	54244	0.224	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	7484	0.042	ppbv #	26
13) Ethanol	3.59	45	8617	0.885	ppbv #	23
15) Acetone	3.83	43	116407	1.064	ppbv	98
20) Methylene Chloride	4.32	84	108542	1.409	ppbv	96
25) Ethyl Acetate	5.66	43	26209	0.122	ppbv #	75
26) Hexane	5.66	57	40092	0.337	ppbv #	45
36) Benzene	6.87	78	20063	0.073	ppbv #	85
39) 1,2-Dichloropropane	7.15	63	750656	8.061	ppbv #	30
53) Toluene	9.78	91	22797	0.068	ppbv	99

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
Data File : VL035871.D
Acq On : 5 Nov 2020 22:23
Operator : SY/AP
Sample : L4618-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Nov 06 00:29:58 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

AA-1

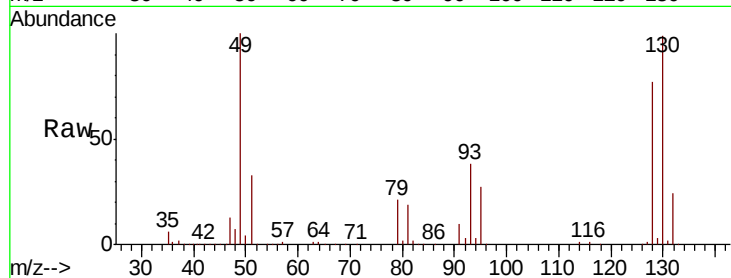
Tot Ion: 49 Resp: 1023560

Ion Ratio Lower Upper

49 100

128 79.1 41.5 124.6

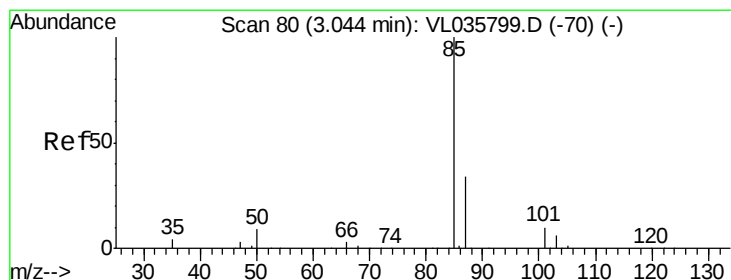
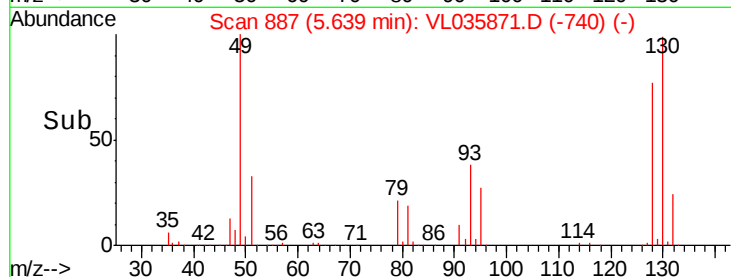
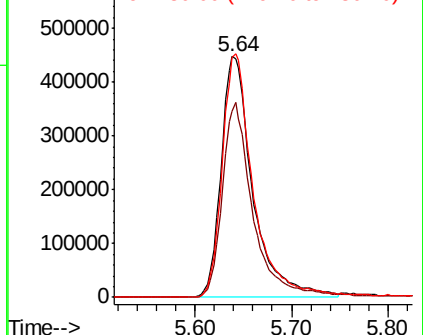
130 101.4 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.295 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.02 min

Lab File: VL035871.D

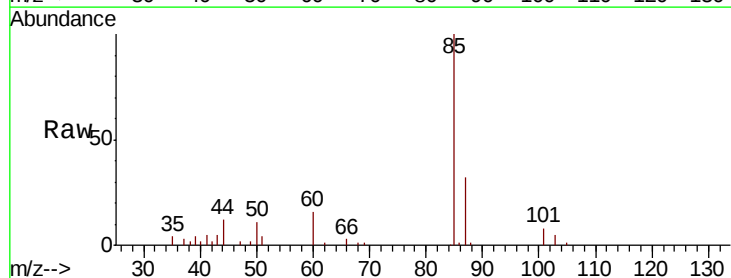
Acq: 5 Nov 2020 22:23

Tgt Ion: 85 Resp: 56799

Ion Ratio Lower Upper

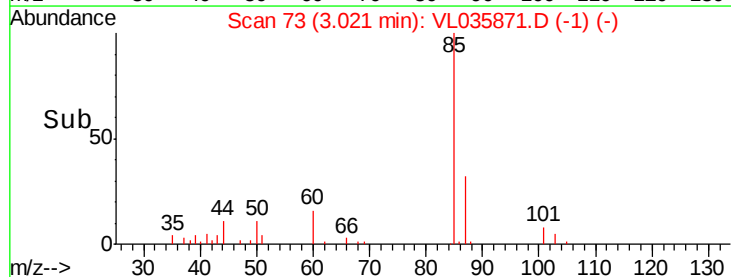
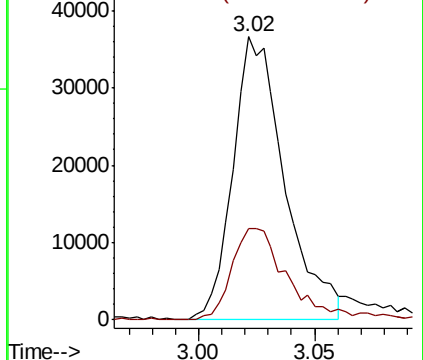
85 100

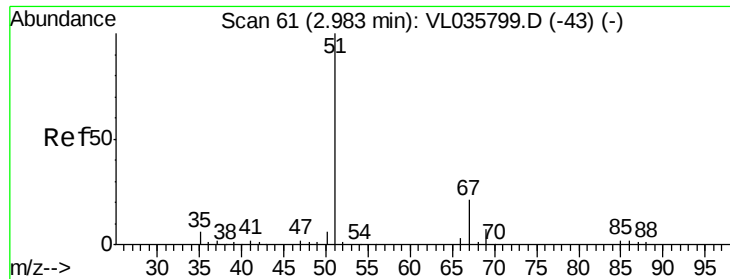
87 32.2 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.322 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Instrument :

MSVOA_L

ClientSampled :

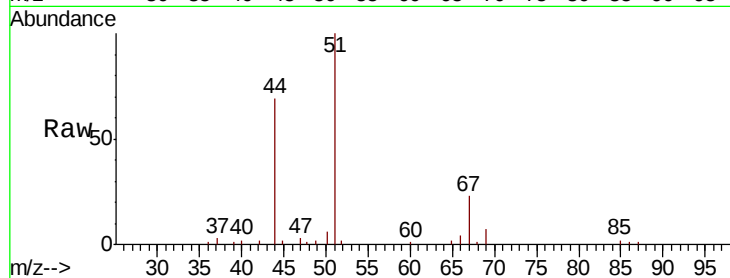
AA-1

Tot Ion: 51 Resp: 39488

Ion Ratio Lower Upper

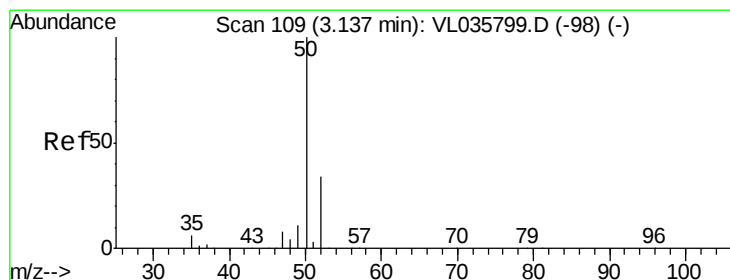
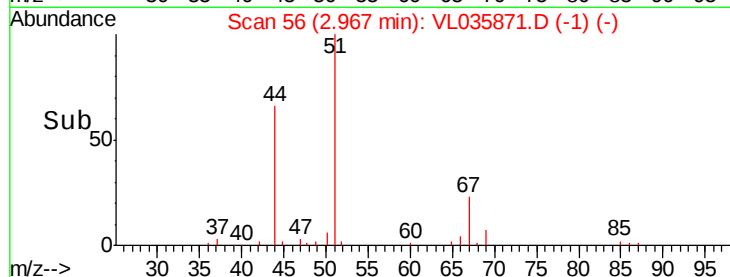
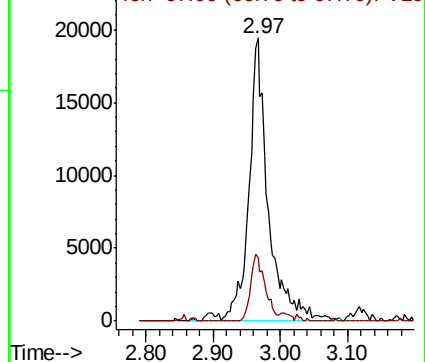
51 100

67 19.5 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: 0.237 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035871.D

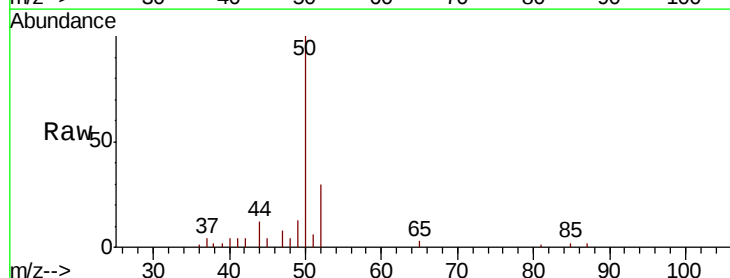
Acq: 5 Nov 2020 22:23

Tgt Ion: 50 Resp: 14135

Ion Ratio Lower Upper

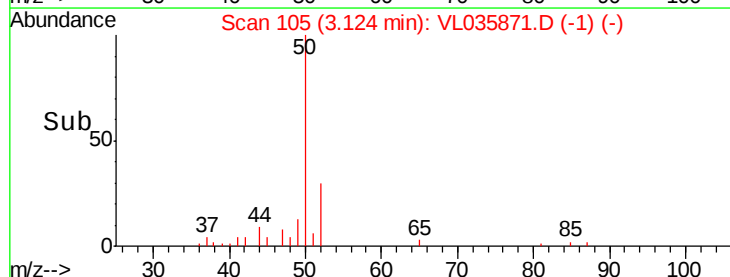
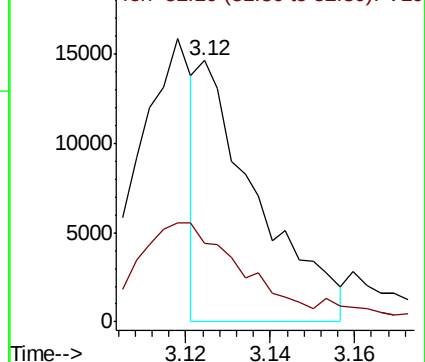
50 100

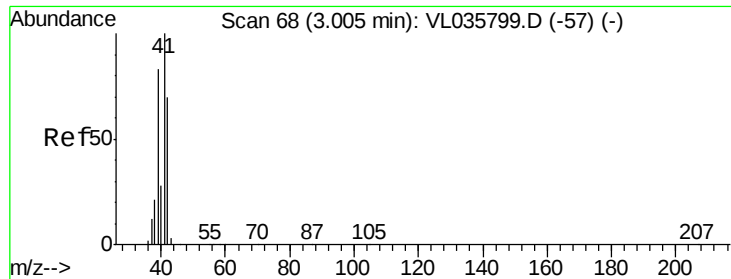
52 27.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.291 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Instrument :

MSVOA_L

ClientSampled :

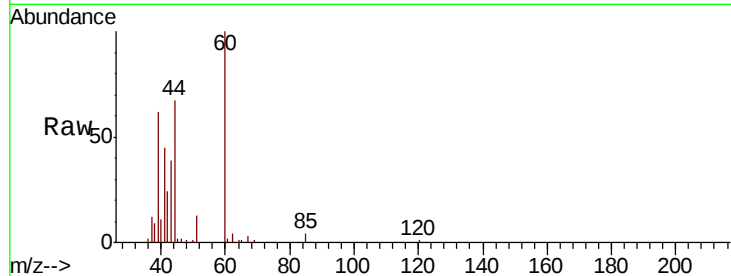
AA-1

Tot Ion: 41 Resp: 13077

Ion Ratio Lower Upper

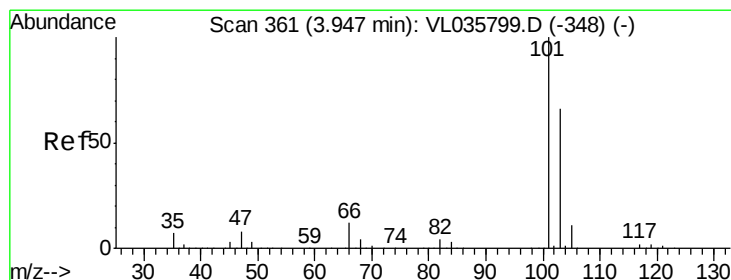
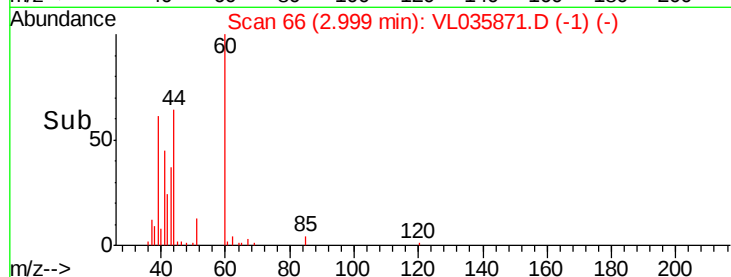
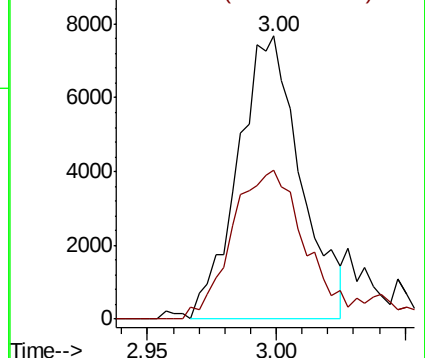
41 100

42 67.2 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.224 ppbv

RT: 3.92 min Scan# 354

Delta R.T. -0.02 min

Lab File: VL035871.D

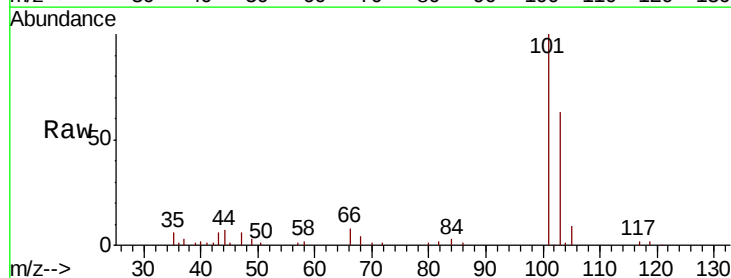
Acq: 5 Nov 2020 22:23

Tgt Ion: 101 Resp: 54244

Ion Ratio Lower Upper

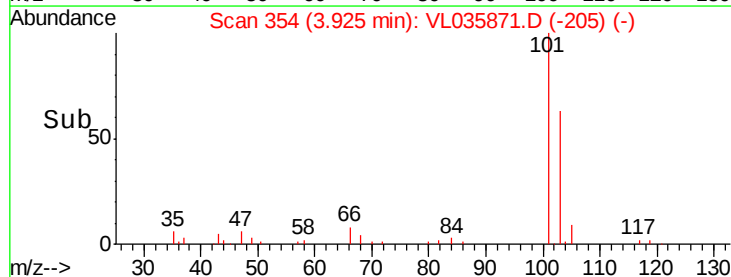
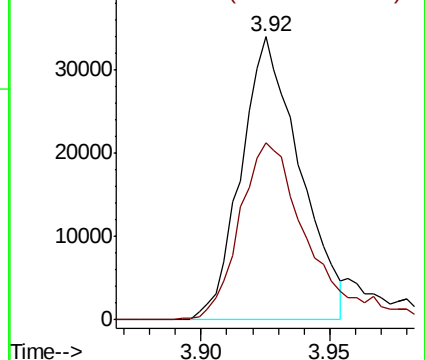
101 100

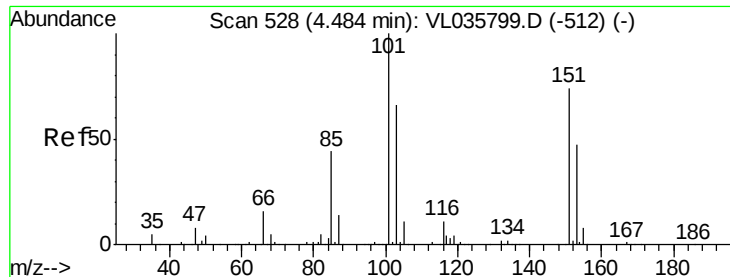
103 62.1 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.042 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.02 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

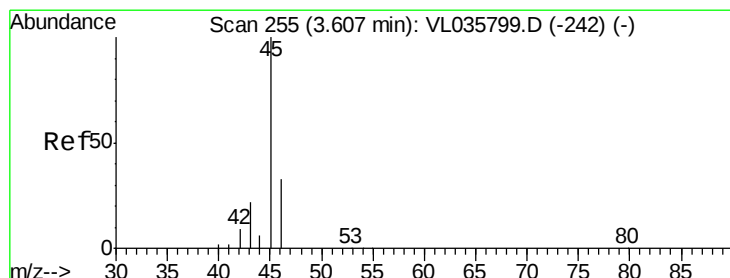
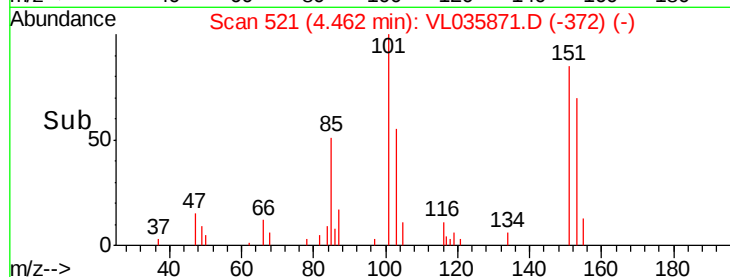
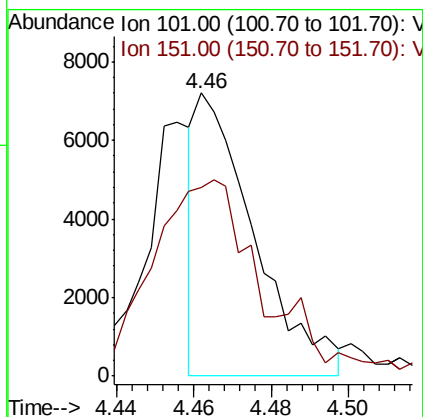
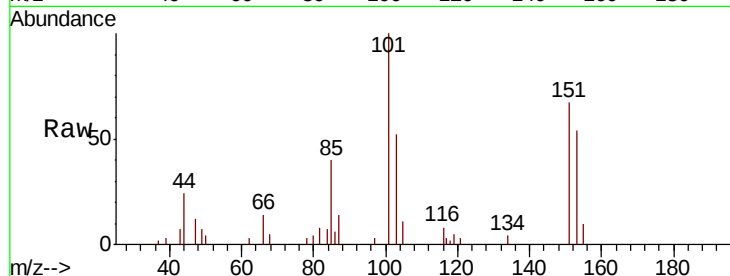
AA-1

Tot Ion:101 Resp: 7484

Ion Ratio Lower Upper

101 100

151 136.1 58.9 88.3#



#13

Ethanol

Concen: 0.885 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL035871.D

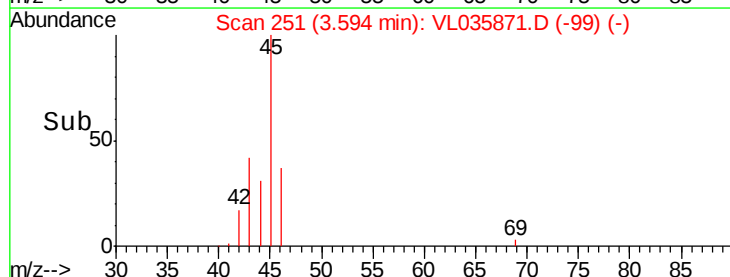
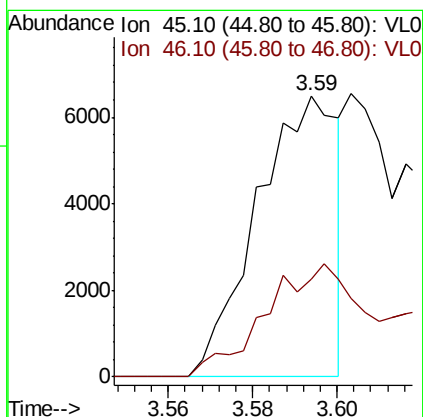
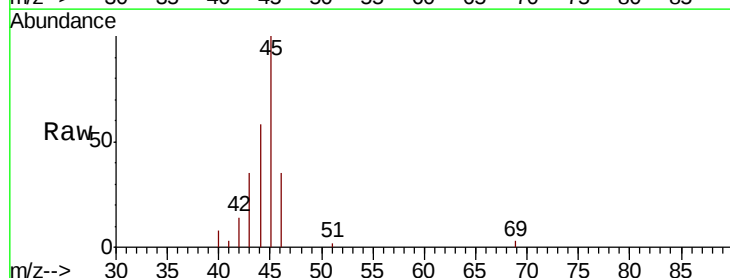
Acq: 5 Nov 2020 22:23

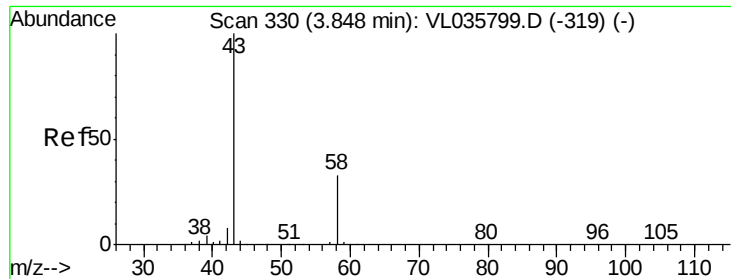
Tgt Ion: 45 Resp: 8617

Ion Ratio Lower Upper

45 100

46 87.9 16.1 64.5#





#15

Acetone

Concen: 1.064 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

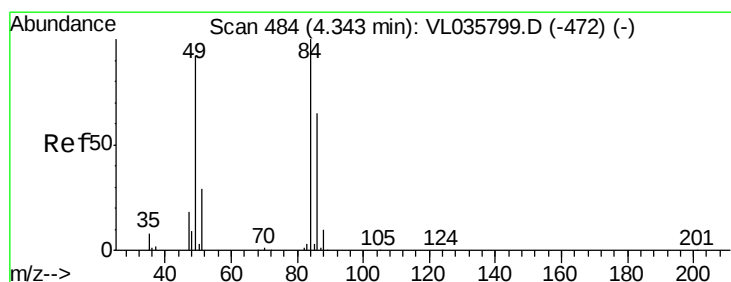
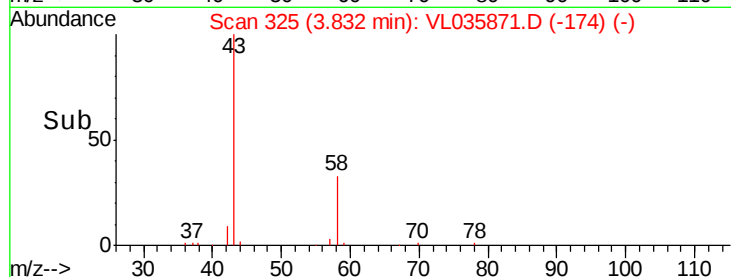
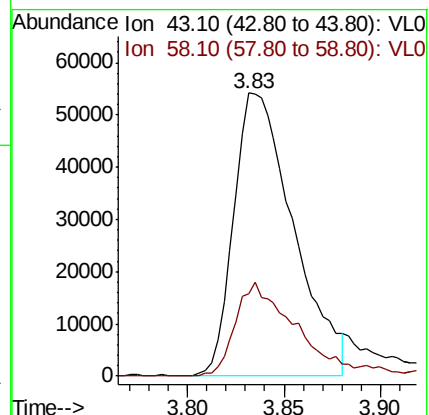
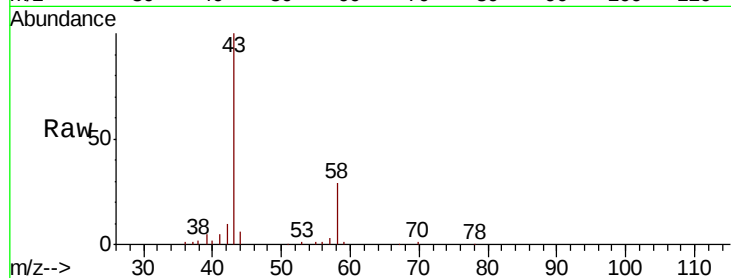
AA-1

Tot Ion: 43 Resp: 116407

Ion Ratio Lower Upper

43 100

58 35.4 27.5 41.3



#20

Methylene Chloride

Concen: 1.409 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Tgt Ion: 84 Resp: 108542

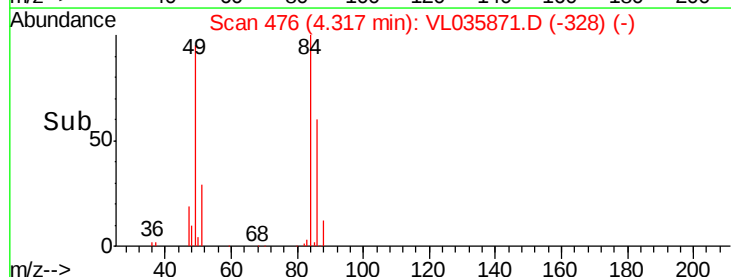
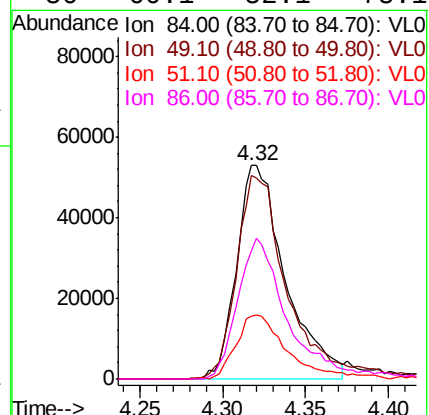
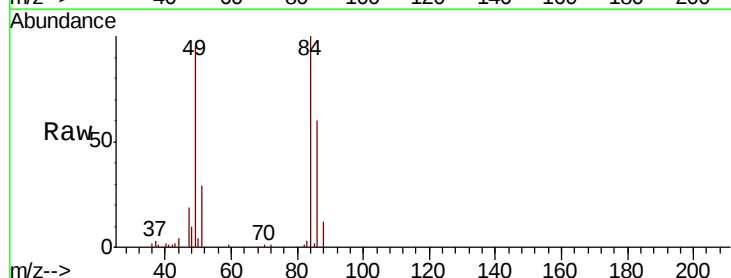
Ion Ratio Lower Upper

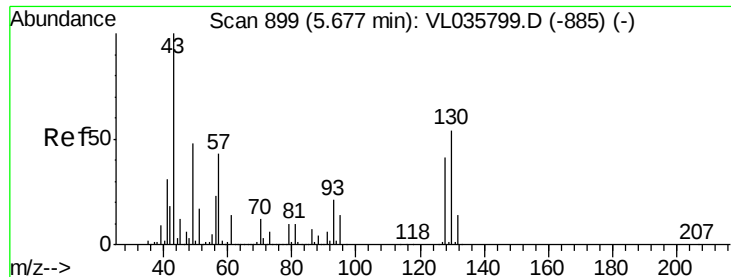
84 100

49 95.1 73.8 110.8

51 29.1 23.0 34.4

86 60.1 52.1 78.1

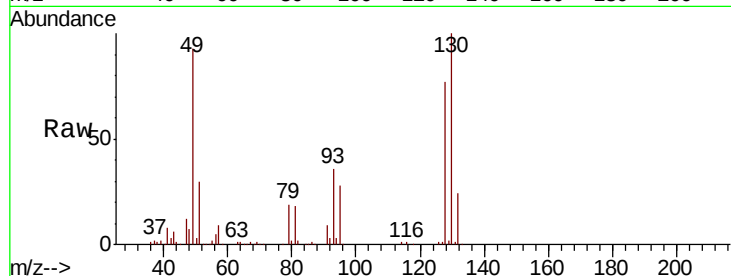




#25
Ethyl Acetate
Concen: 0.122 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035871.D
Acq: 5 Nov 2020 22:23

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion:	43	Resp:	26209
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.5	12.7#
61	1.3	10.7	16.1#
70	3.4	8.6	12.8#



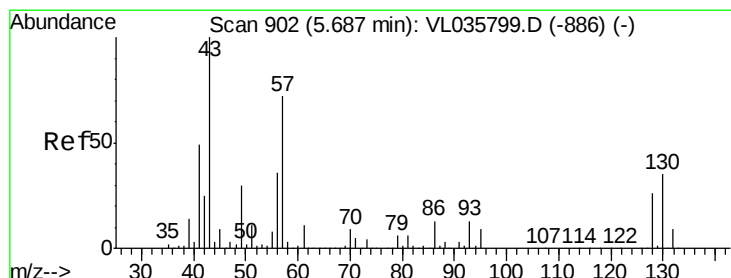
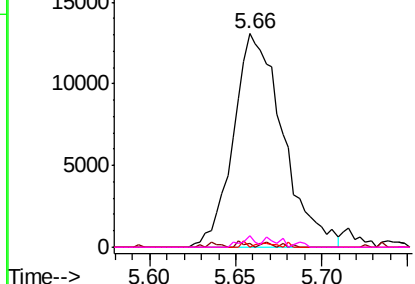
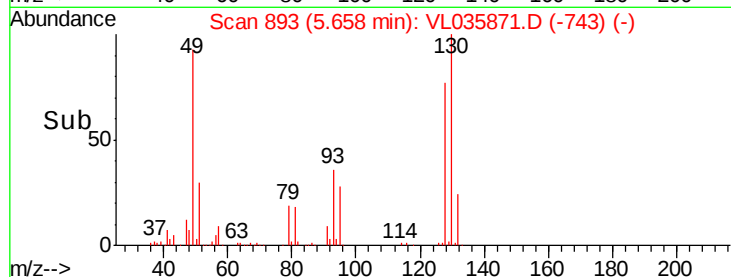
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

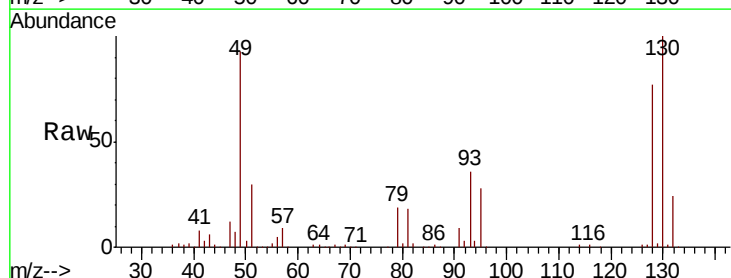
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.337 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035871.D
Acq: 5 Nov 2020 22:23

Tgt Ion:	57	Resp:	40092
Ion	Ratio	Lower	Upper
57	100		
41	88.1	58.9	88.3
43	68.1	150.2	225.2#
56	62.9	42.4	63.6



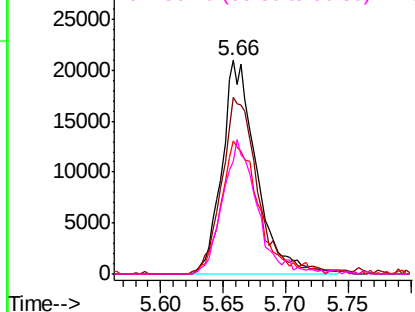
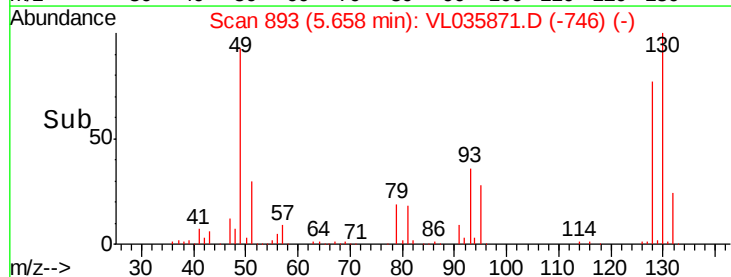
Abundance

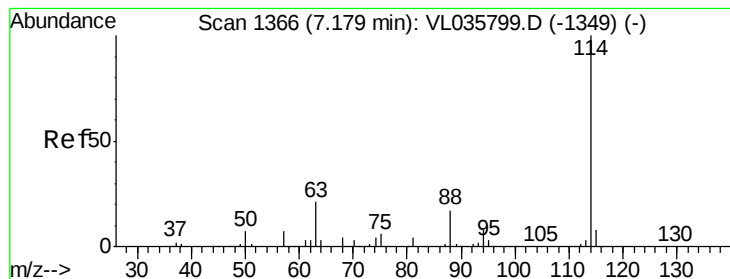
Ion 57.10 (56.80 to 57.80): VL0

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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.03 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

Instrument :

MSVOA_L

ClientSampleId :

AA-1

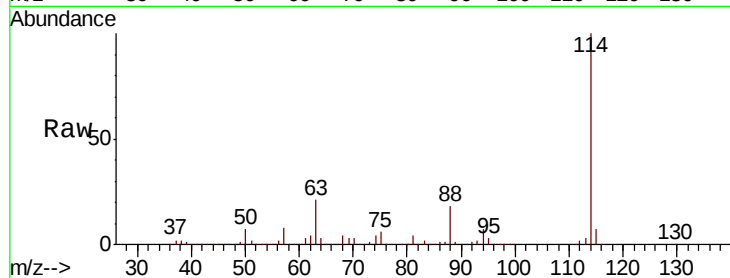
Tot Ion:114 Resp: 3720493

Ion Ratio Lower Upper

114 100

63 20.4 16.1 24.1

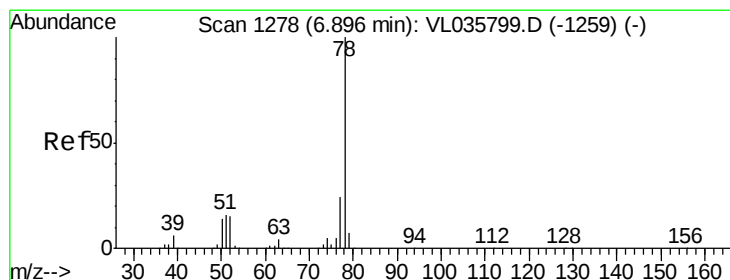
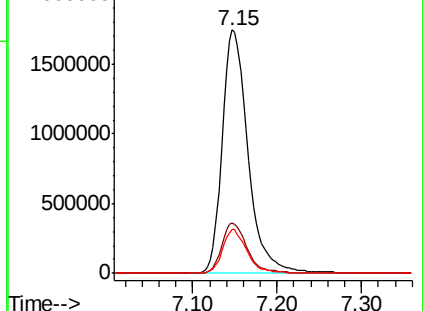
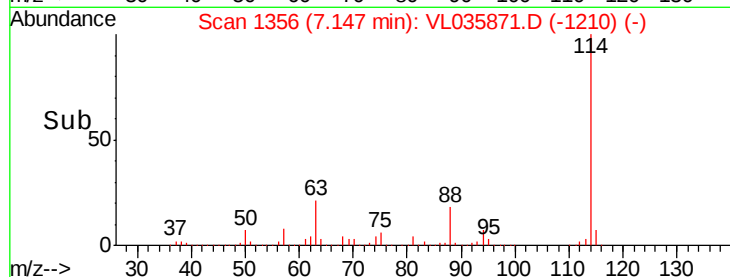
88 17.3 13.7 20.5



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



#36

Benzene

Concen: 0.073 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL035871.D

Acq: 5 Nov 2020 22:23

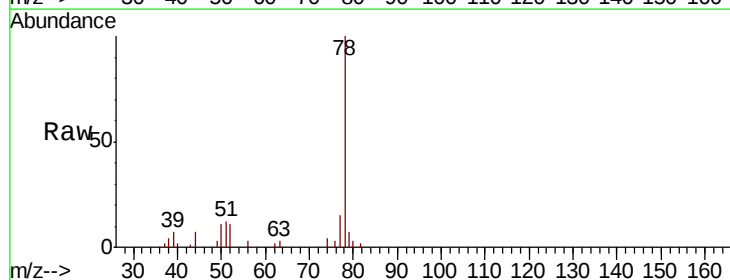
Tgt Ion: 78 Resp: 20063

Ion Ratio Lower Upper

78 100

77 14.7 19.3 28.9#

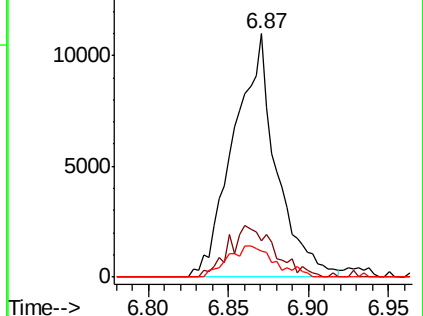
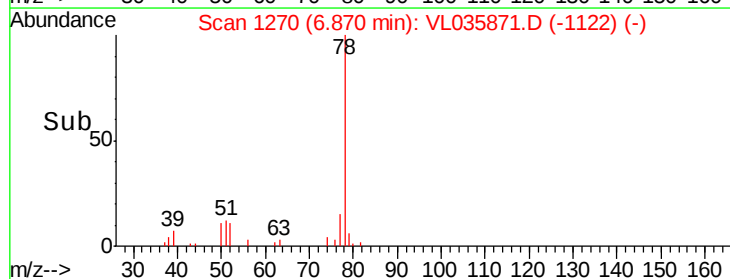
50 10.8 11.4 17.2#

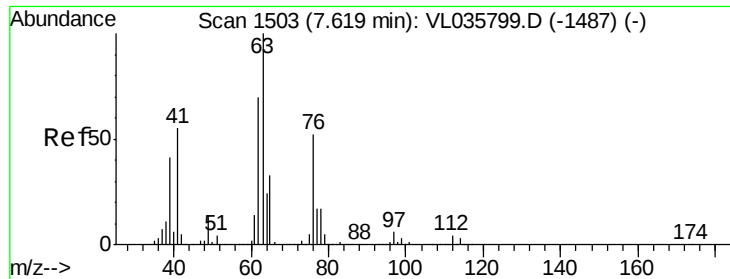


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

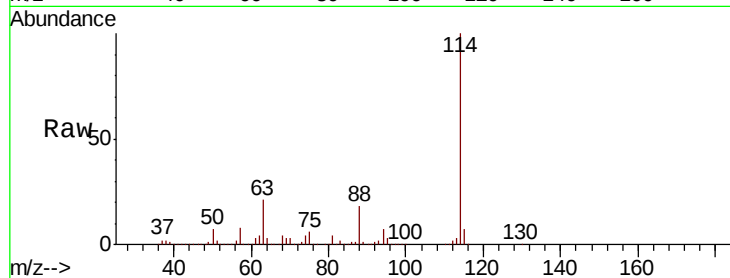




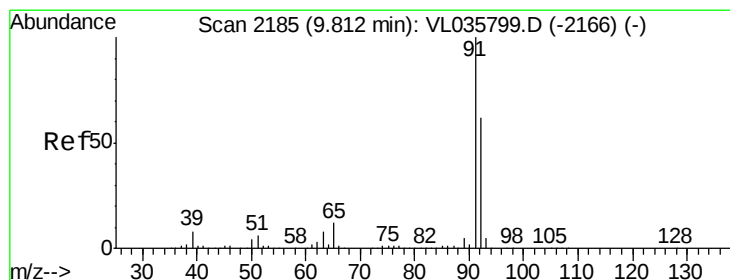
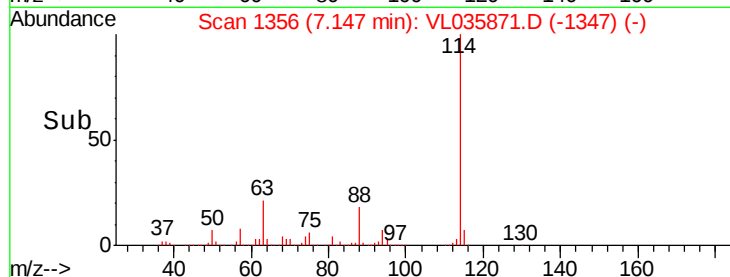
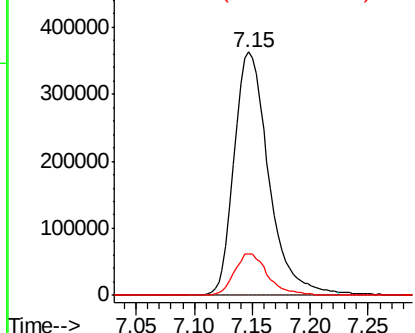
#39
 1,2-Dichloropropane
 Concen: 8.061 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.47 min
 Lab File: VL035871.D
 Acq: 5 Nov 2020 22:23

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	43.8	65.6#
62	16.9	56.2	84.2#

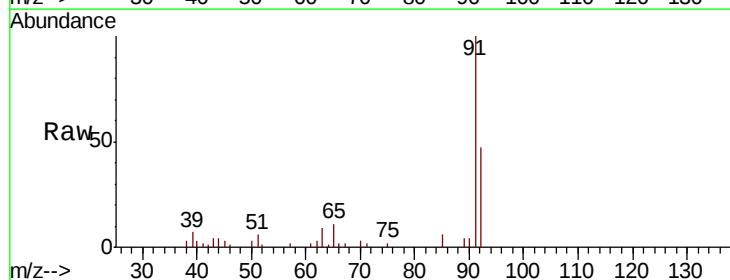


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

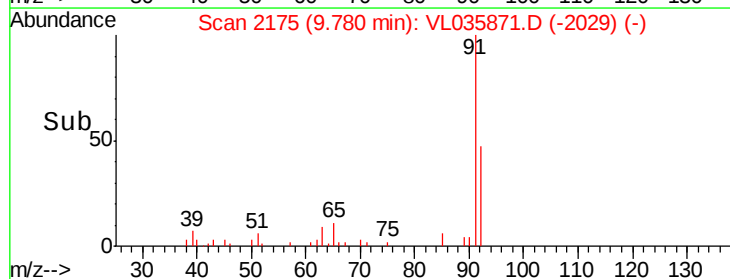
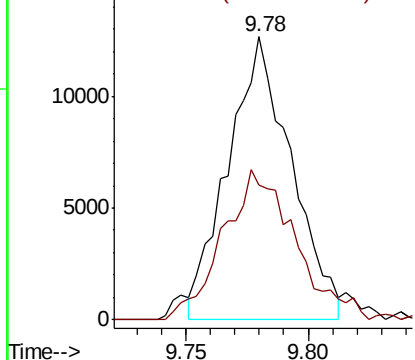


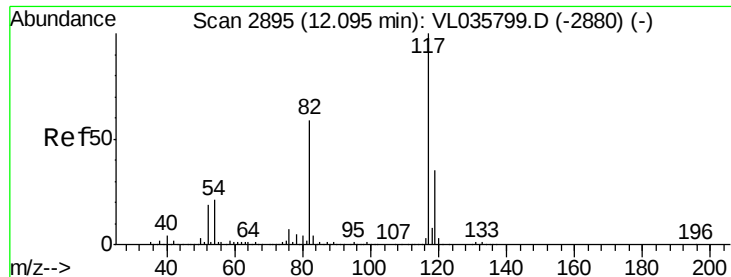
#53
 Toluene
 Concen: 0.068 ppbv
 RT: 9.78 min Scan# 2175
 Delta R.T. -0.03 min
 Lab File: VL035871.D
 Acq: 5 Nov 2020 22:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.3	49.8	74.6



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

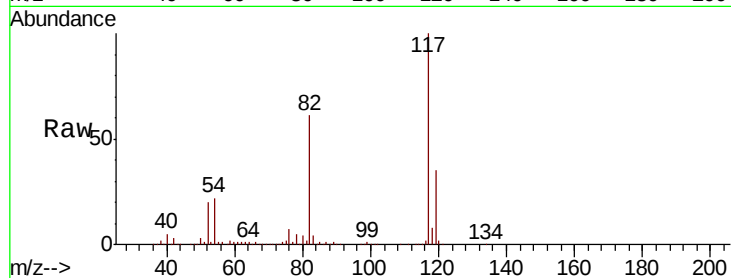




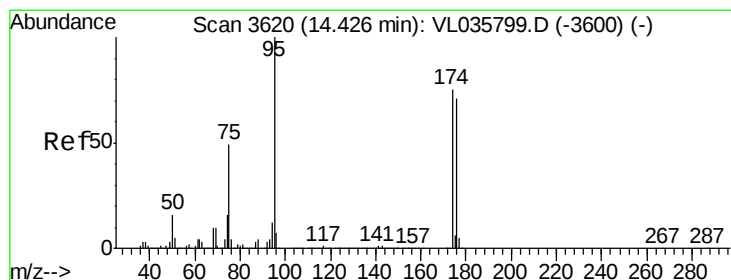
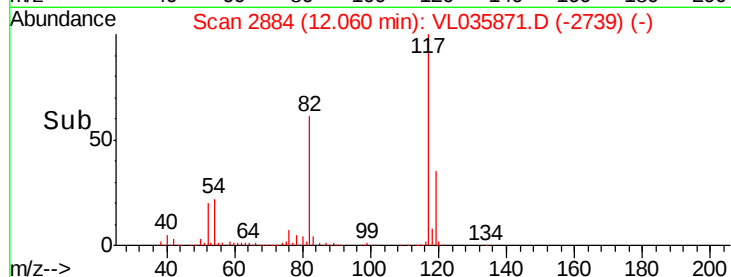
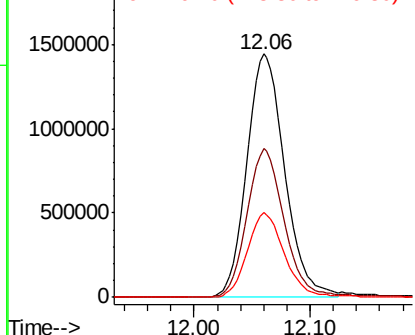
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.04 min
Lab File: VL035871.D
Acq: 5 Nov 2020 22:23

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion:117 Resp: 3284148
Ion Ratio Lower Upper
117 100
82 61.0 50.6 76.0
119 34.3 52.6 78.8#

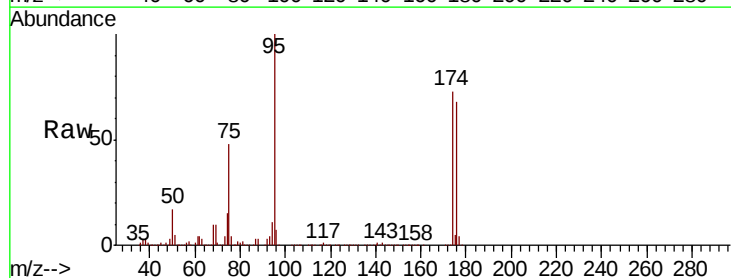


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.307 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.03 min
Lab File: VL035871.D
Acq: 5 Nov 2020 22:23

Tgt Ion: 95 Resp: 2404839
Ion Ratio Lower Upper
95 100
174 75.1 59.8 89.6
175 5.2 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

