

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122320\
 Data File : VL036205.D
 Acq On : 23 Dec 2020 23:29
 Operator : SY/AP
 Sample : L5196-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA1DL

Quant Time: Dec 24 05:27:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1346558	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.15	114	2626333	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.06	117	2345237	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2026508	10.88	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.80%

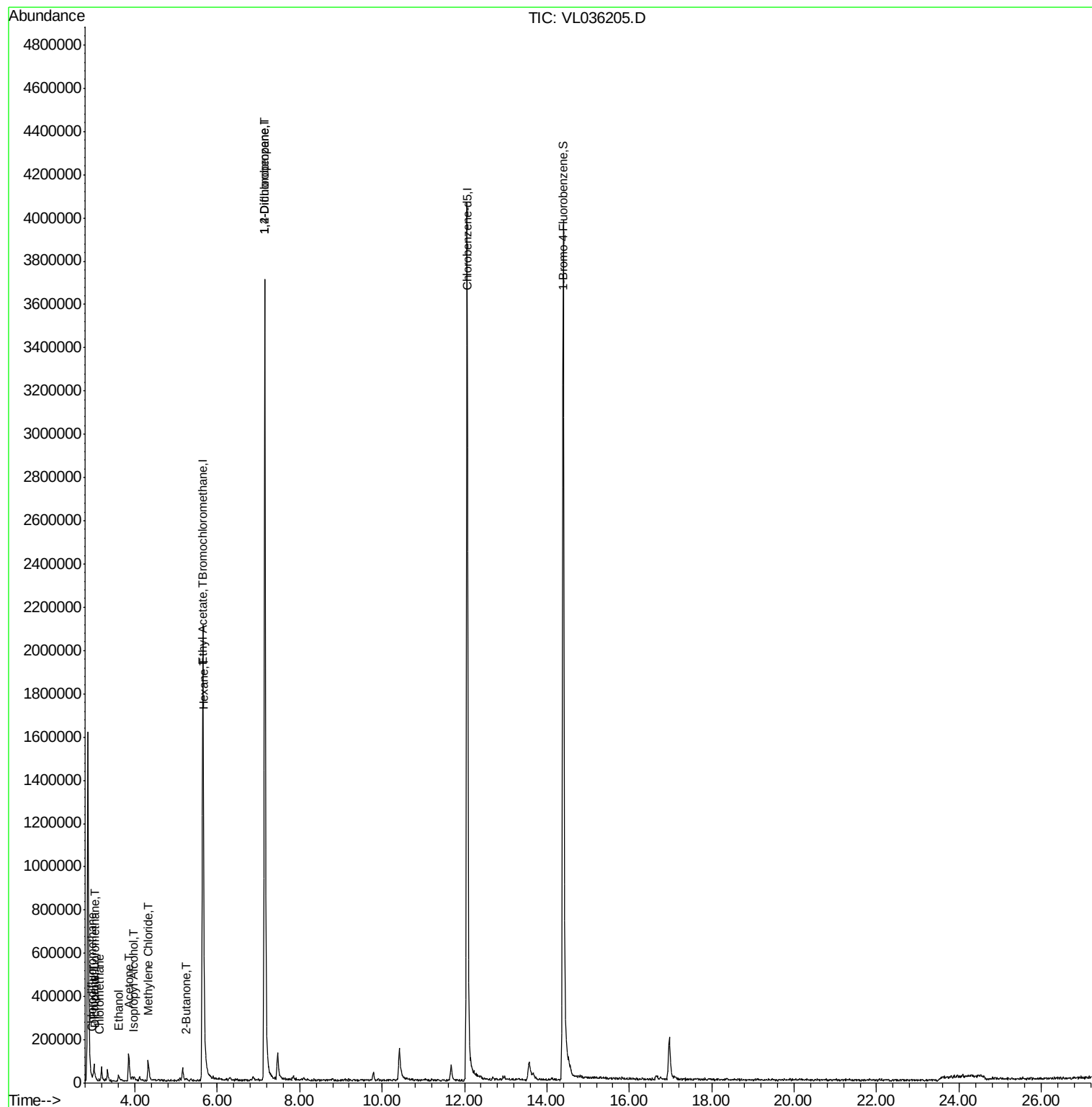
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	7894	0.050	ppbv	91
3) Chlorodifluoromethane	2.96	51	17817	0.116	ppbv	96
4) Chloromethane	3.12	50	2281	0.030	ppbv	97
9) Propene	3.00	41	16352	0.212	ppbv	86
13) Ethanol	3.60	45	21151	1.994	ppbv #	50
15) Acetone	3.84	43	103382	0.639	ppbv #	87
19) Isopropyl Alcohol	3.97	45	5713	0.058	ppbv #	100
20) Methylene Chloride	4.32	84	16375	0.247	ppbv	92
25) Ethyl Acetate	5.66	43	57334	0.177	ppbv #	78
26) Hexane	5.67	57	76776	0.528	ppbv #	38
34) 2-Butanone	5.25	43	7377	0.042	ppbv #	33
39) 1,2-Dichloropropane	7.15	63	884427	10.062	ppbv #	25

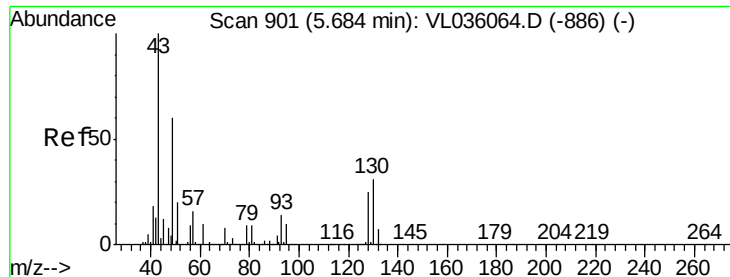
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
IIA1DL

Quant Time: Dec 24 05:27:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.04 min

Lab File: VL036205.D

Acq: 23 Dec 2020 23:29

Instrument :

MSVOA_L

ClientSampleId :

IIA1DL

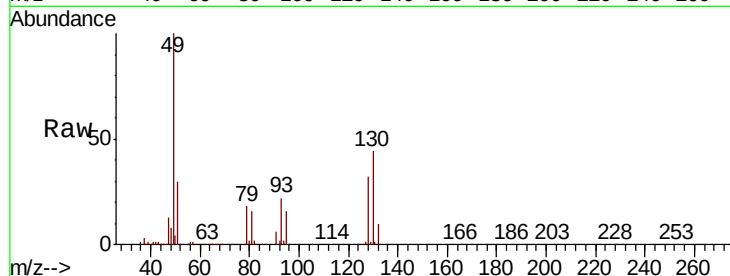
Tot Ion: 49 Resp: 1346558

Ion Ratio Lower Upper

49 100

128 36.2 21.1 63.1

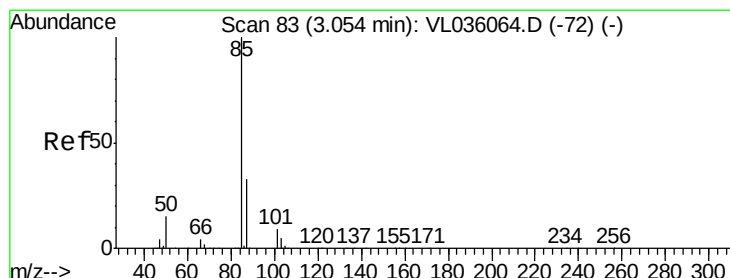
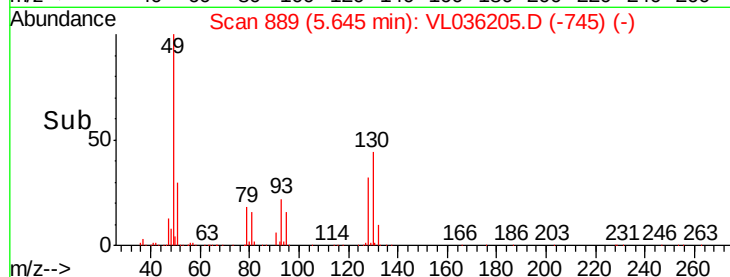
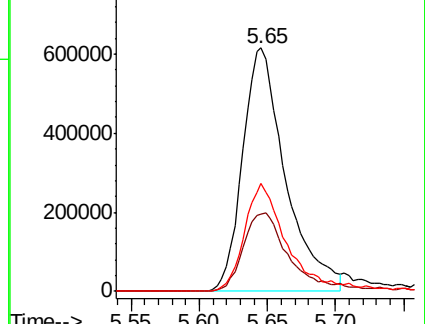
130 45.5 27.1 81.3



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: 0.050 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036205.D

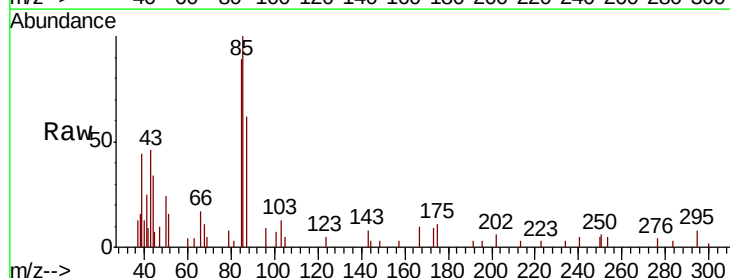
Acq: 23 Dec 2020 23:29

Tgt Ion: 85 Resp: 7894

Ion Ratio Lower Upper

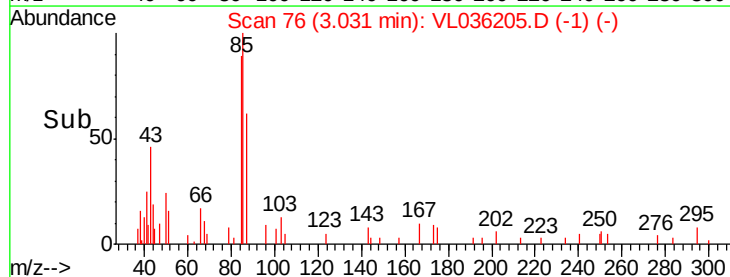
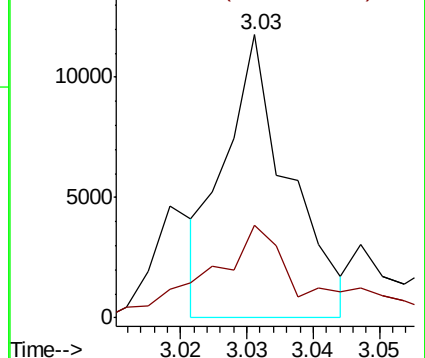
85 100

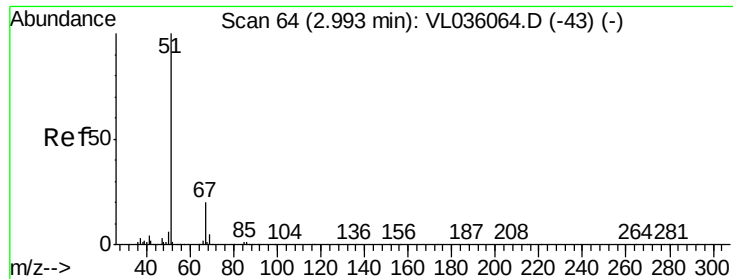
87 28.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.116 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL036205.D

Acq: 23 Dec 2020 23:29

Instrument :

MSVOA_L

ClientSampleId :

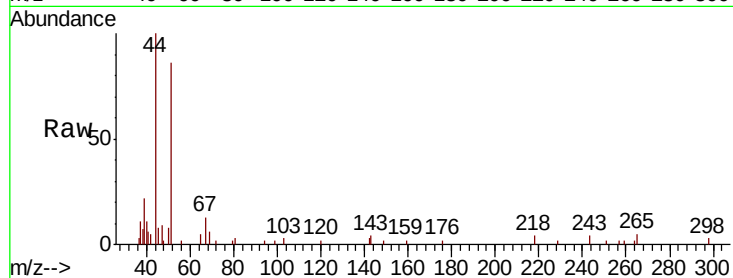
IIA1DL

Tot Ion: 51 Resp: 17817

Ion Ratio Lower Upper

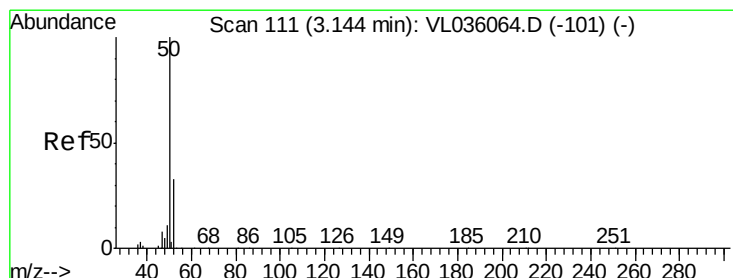
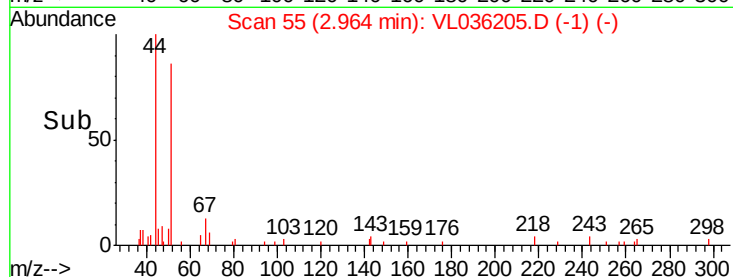
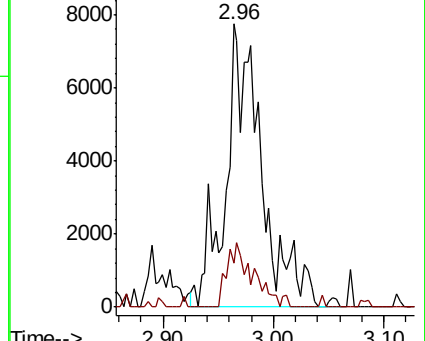
51 100

67 16.2 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.030 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL036205.D

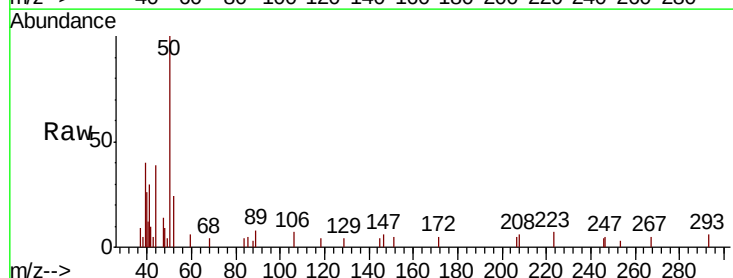
Acq: 23 Dec 2020 23:29

Tgt Ion: 50 Resp: 2281

Ion Ratio Lower Upper

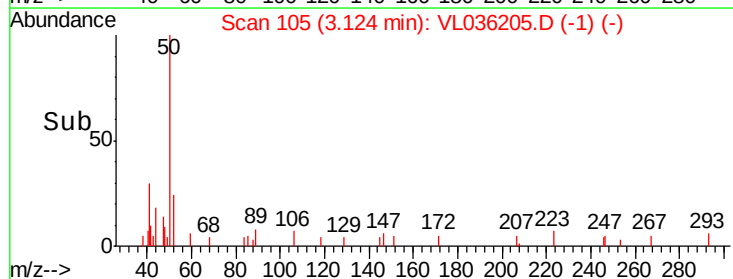
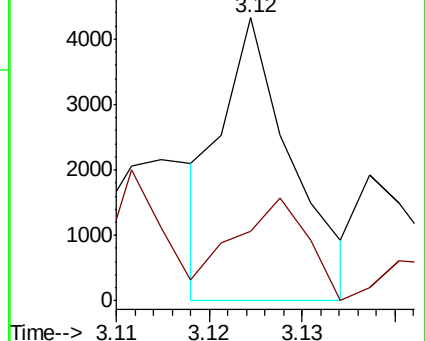
50 100

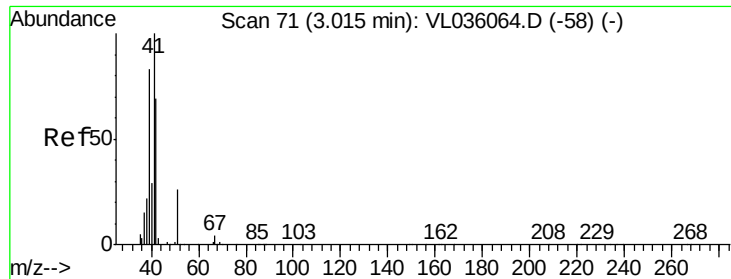
52 31.1 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.212 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL036205.D

Acq: 23 Dec 2020 23:29

Instrument :

MSVOA_L

ClientSampleID :

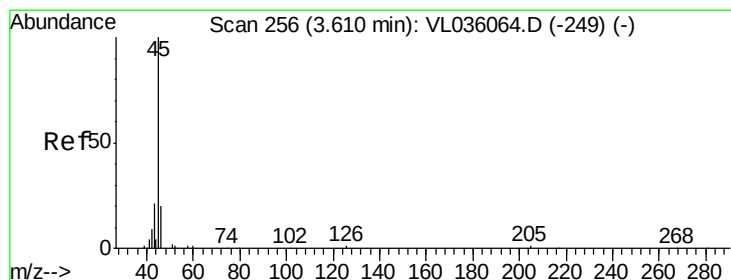
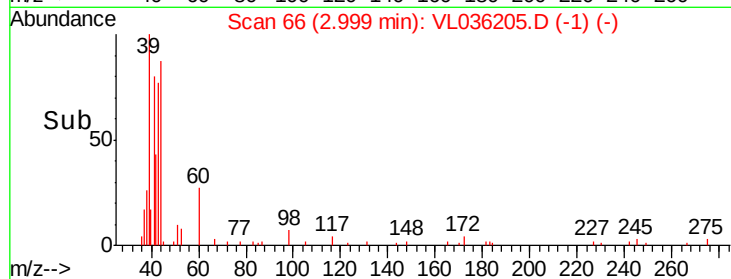
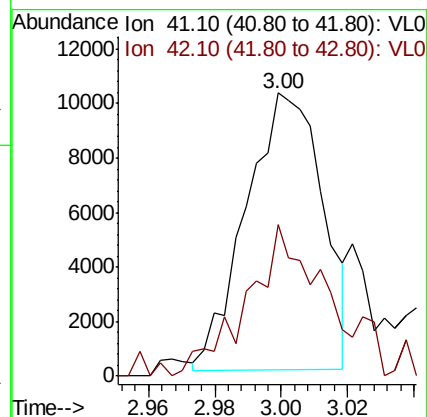
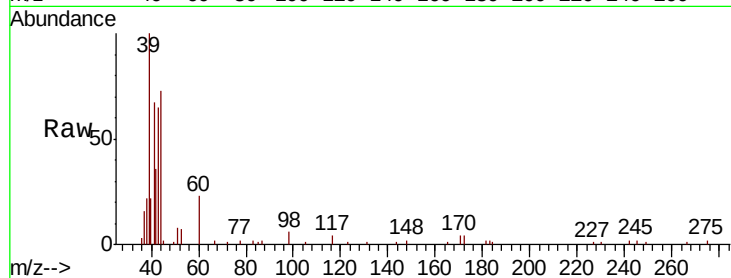
IIA1DL

Tot Ion: 41 Resp: 16352

Ion Ratio Lower Upper

41 100

42 60.1 57.0 85.6



#13

Ethanol

Concen: 1.994 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL036205.D

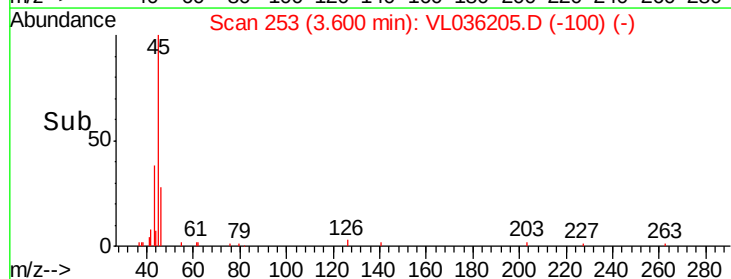
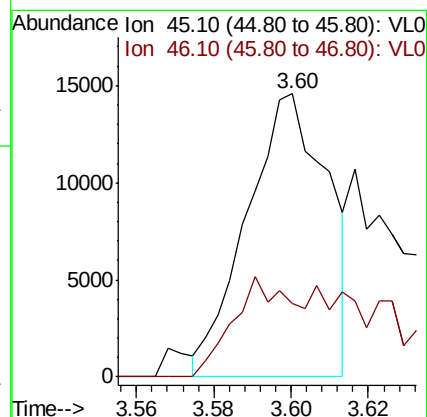
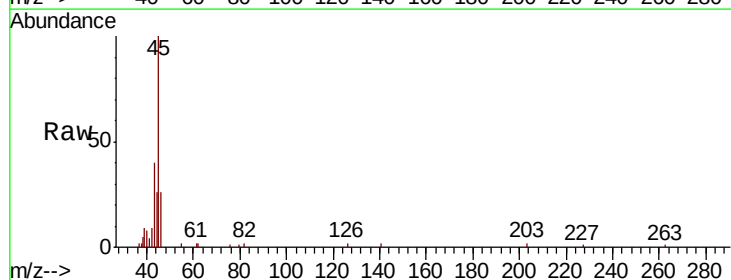
Acq: 23 Dec 2020 23:29

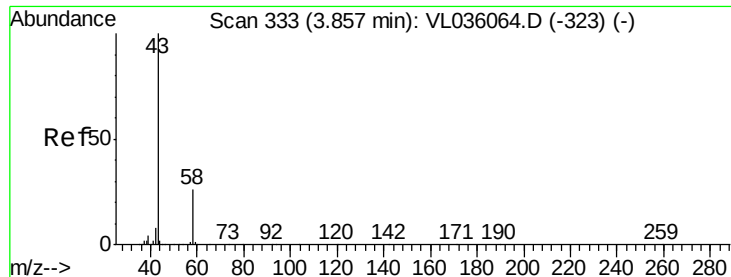
Tgt Ion: 45 Resp: 21151

Ion Ratio Lower Upper

45 100

46 81.2 19.0 75.8#





#15

Acetone

Concen: 0.639 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL036205.D

Acq: 23 Dec 2020 23:29

Instrument :

MSVOA_L

ClientSampleId :

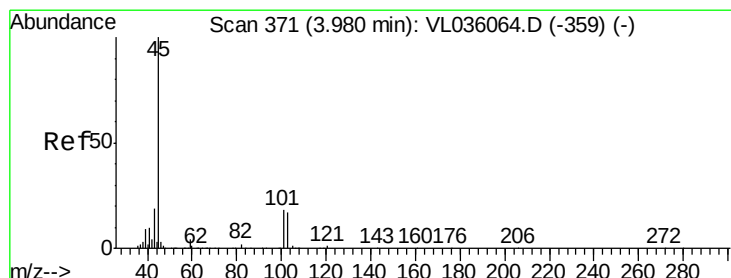
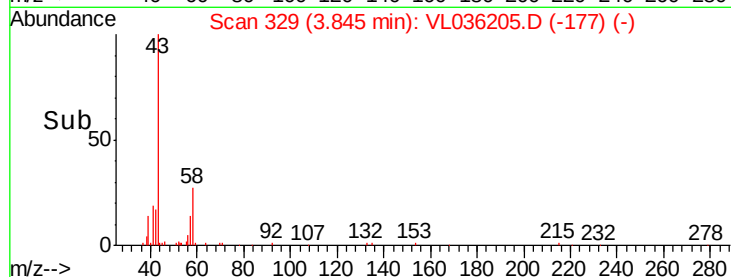
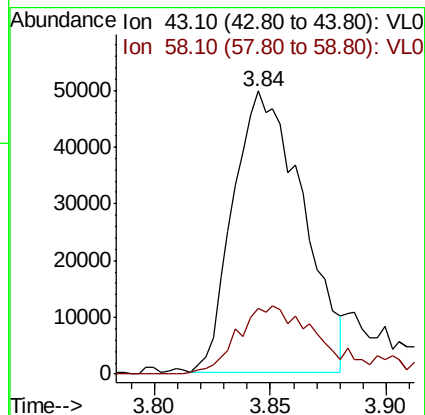
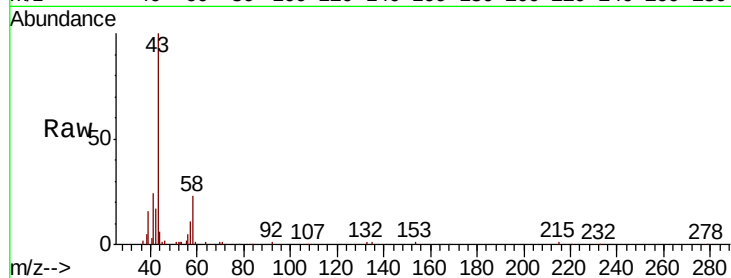
IIA1DL

Tot Ion: 43 Resp: 103382

Ion Ratio Lower Upper

43 100

58 32.9 20.9 31.3#



#19

Isopropyl Alcohol

Concen: 0.058 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.01 min

Lab File: VL036205.D

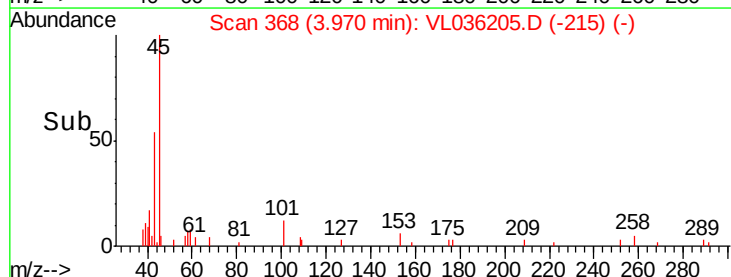
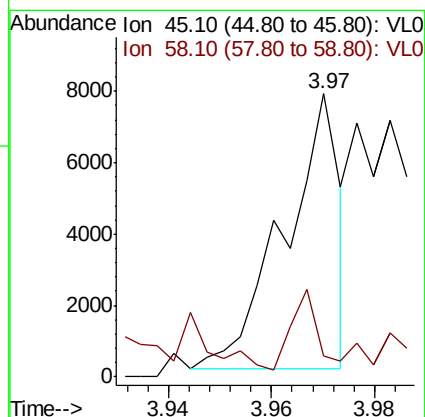
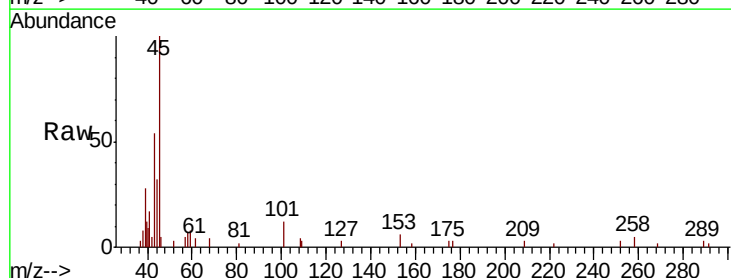
Acq: 23 Dec 2020 23:29

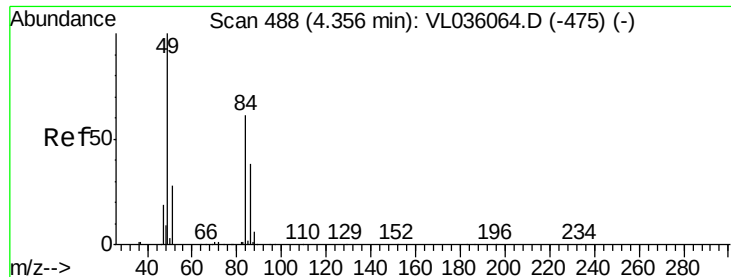
Tgt Ion: 45 Resp: 5713

Ion Ratio Lower Upper

45 100

58 36.6 0.0 0.0#

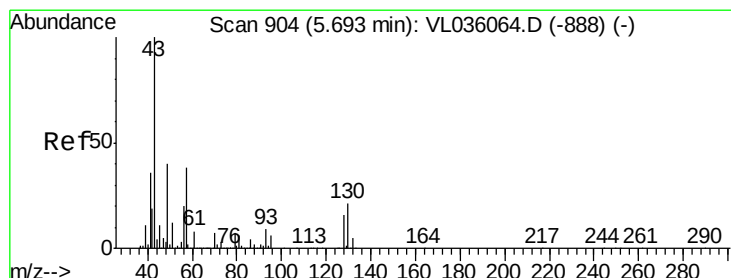
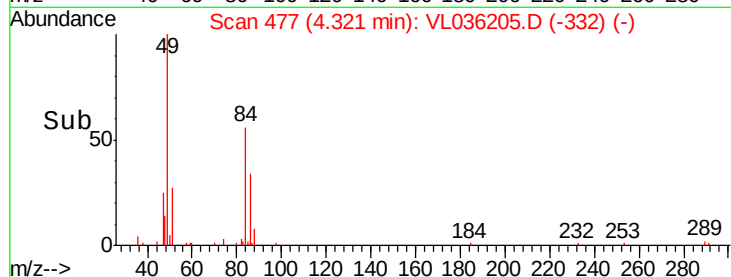
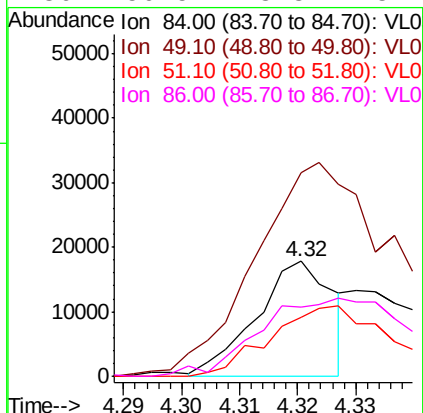
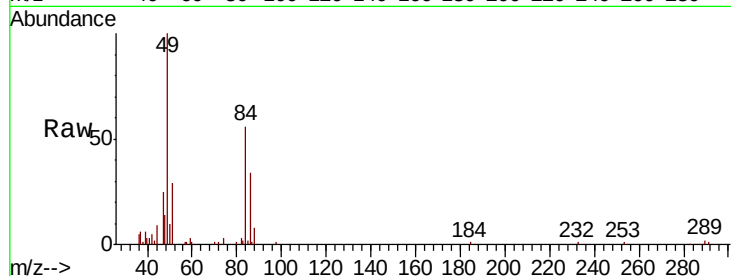




#20
Methvlene Chloride
Concen: 0.247 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.04 min
Lab File: VL036205.D
Acq: 23 Dec 2020 23:29

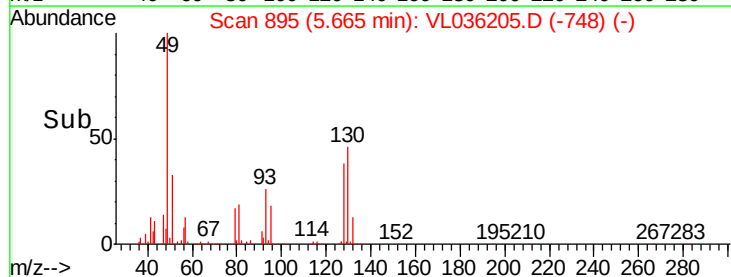
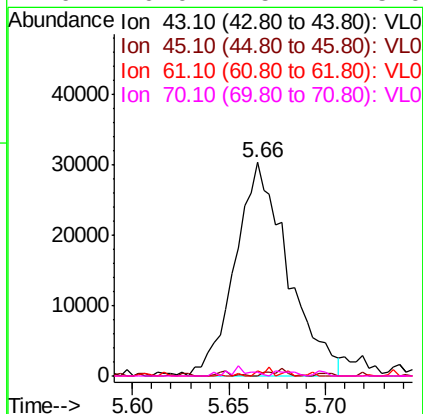
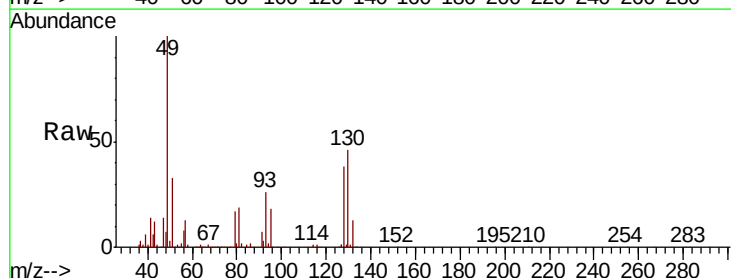
Instrument :
MSVOA_L
ClientSampleId :
IIA1DL

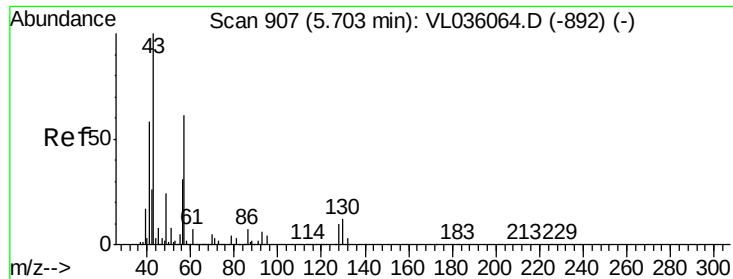
Tot Ion:	84	Resp:	16375
Ion	Ratio	Lower	Upper
84	100		
49	155.7	133.0	199.4
51	50.8	38.9	58.3
86	50.5	48.8	73.2



#25
Ethyl Acetate
Concen: 0.177 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.03 min
Lab File: VL036205.D
Acq: 23 Dec 2020 23:29

Tgt Ion:	43	Resp:	57334
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.2	12.4#
61	1.5	7.4	11.2#
70	0.0	5.4	8.0#

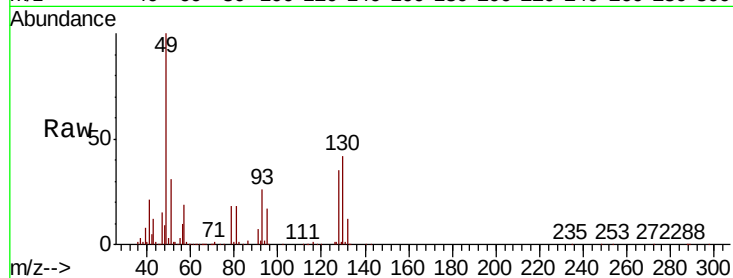




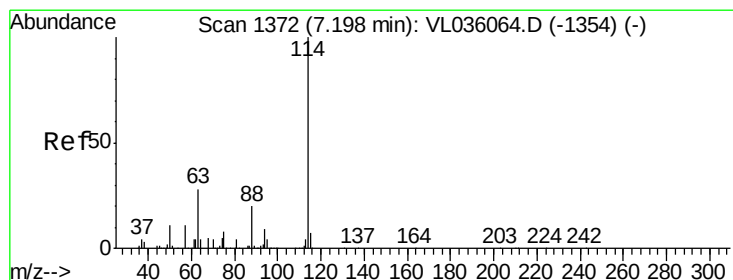
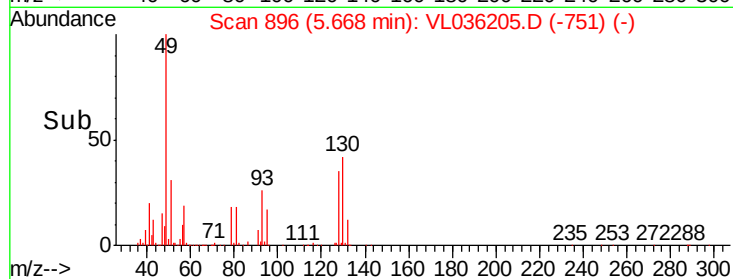
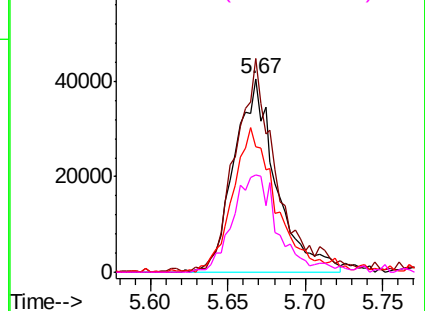
#26
Hexane
Concen: 0.528 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.04 min
Lab File: VL036205.D
Acq: 23 Dec 2020 23:29

Instrument :
MSVOA_L
ClientSampleId :
IIA1DL

Tot Ion: 57 Resp: 76776
Ion Ratio Lower Upper
57 100
41 110.6 82.9 124.3
43 80.7 199.9 299.9#
56 56.0 43.1 64.7

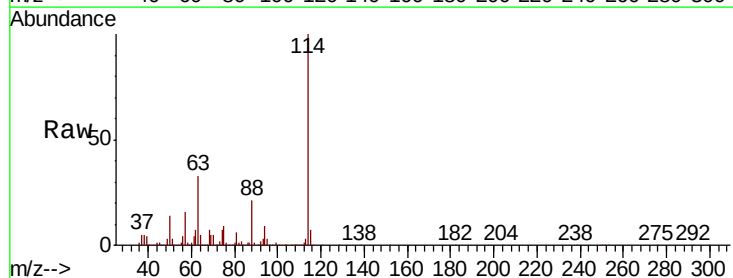


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

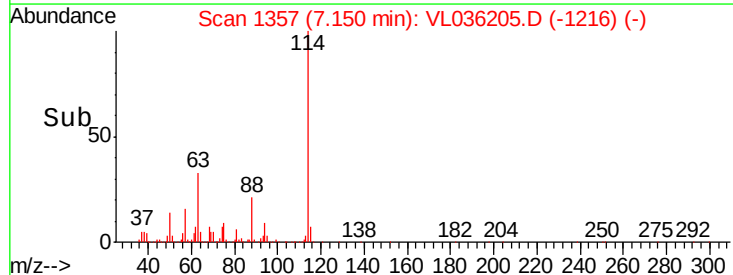
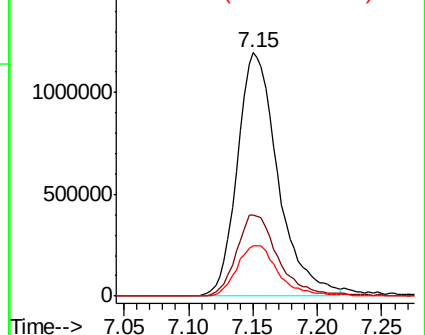


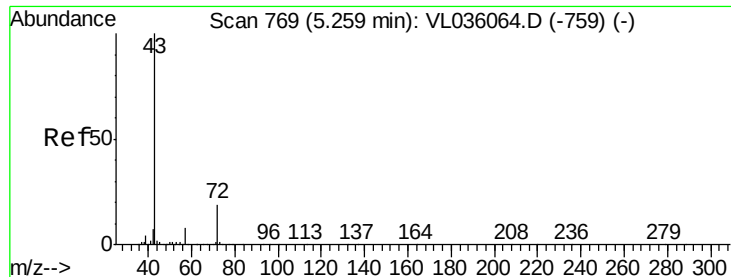
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.05 min
Lab File: VL036205.D
Acq: 23 Dec 2020 23:29

Tgt Ion: 114 Resp: 2626333
Ion Ratio Lower Upper
114 100
63 34.9 23.6 35.4
88 21.3 15.8 23.6



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





#34

2-Butanone

Concen: 0.042 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL036205.D

Acq: 23 Dec 2020 23:29

Instrument :

MSVOA_L

ClientSampleId :

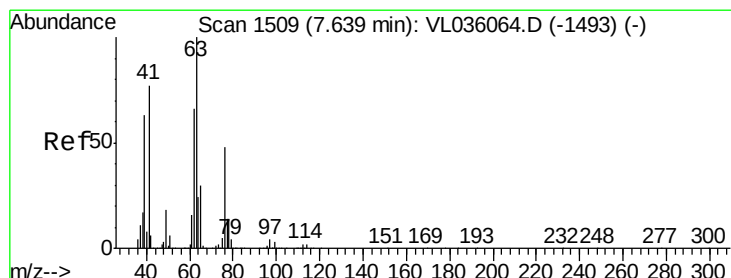
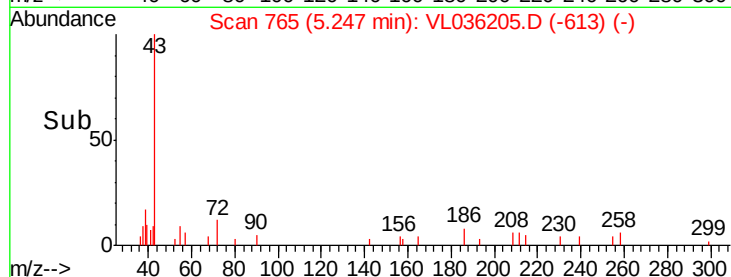
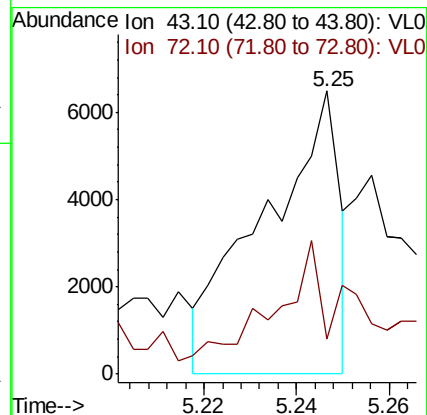
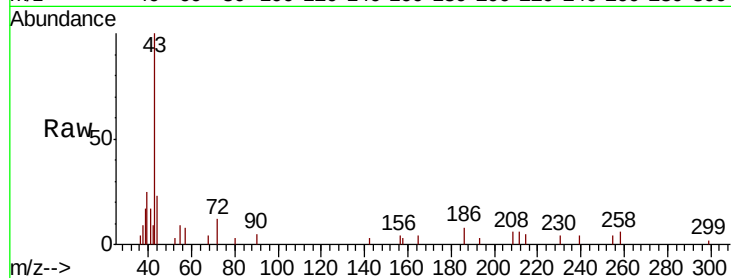
IIA1DL

Tot Ion: 43 Resp: 7377

Ion Ratio Lower Upper

43 100

72 51.9 16.5 24.7#



#39

1,2-Dichloropropane

Concen: 10.062 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.49 min

Lab File: VL036205.D

Acq: 23 Dec 2020 23:29

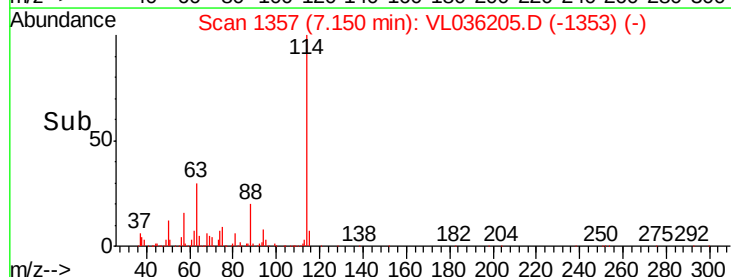
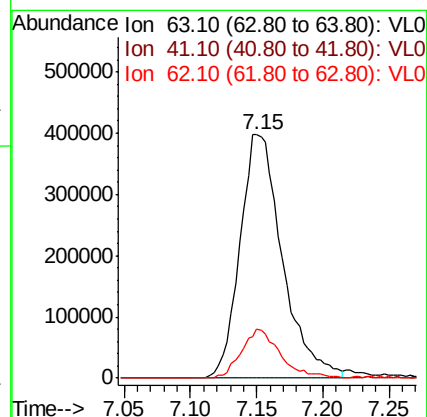
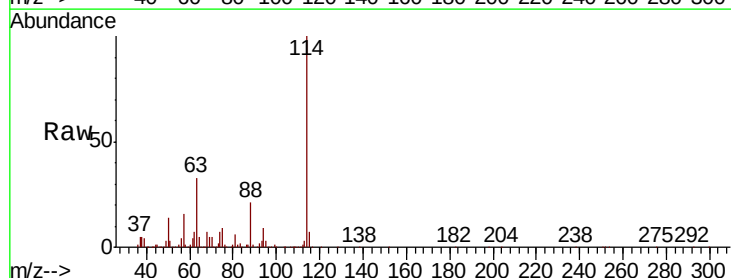
Tgt Ion: 63 Resp: 884427

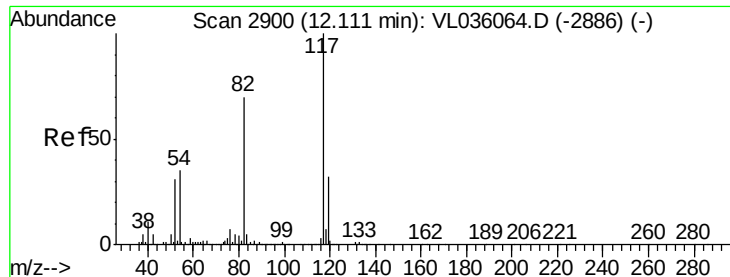
Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

62 20.0 52.5 78.7#

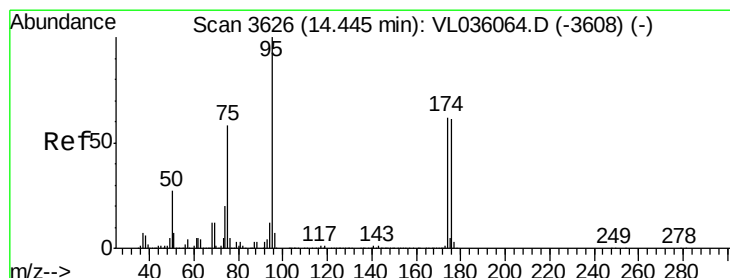
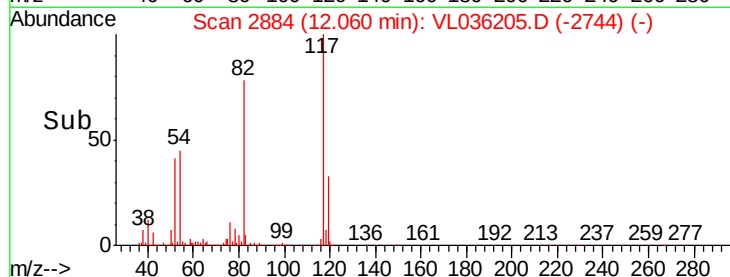
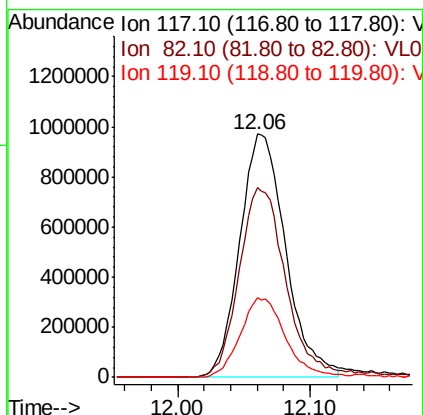
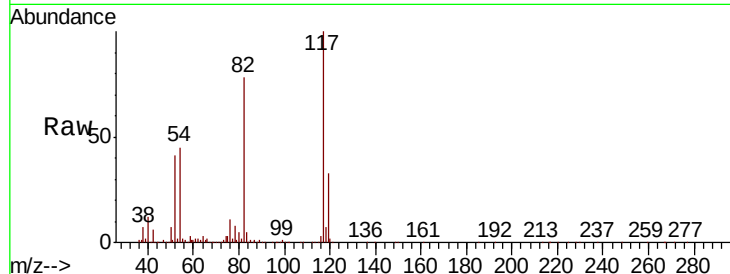




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.05 min
Lab File: VL036205.D
Acq: 23 Dec 2020 23:29

Instrument :
MSVOA_L
ClientSampleId :
IIA1DL

Tot Ion:117 Resp: 2345237
Ion Ratio Lower Upper
117 100
82 81.5 0.0 0.0#
119 33.1 0.0 0.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.882 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.05 min
Lab File: VL036205.D
Acq: 23 Dec 2020 23:29

Tgt Ion: 95 Resp: 2026508
Ion Ratio Lower Upper
95 100
174 54.5 50.7 76.1
175 3.8 4.0 6.0#

