

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012021\
 Data File : VL036254.D
 Acq On : 20 Jan 2021 20:00
 Operator : SY/AP
 Sample : OC122320 CAN 10448
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC122320 CAN 10448

Quant Time: Jan 21 01:36:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1132031	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2176517	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1872969	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	856844	5.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	55.30%#

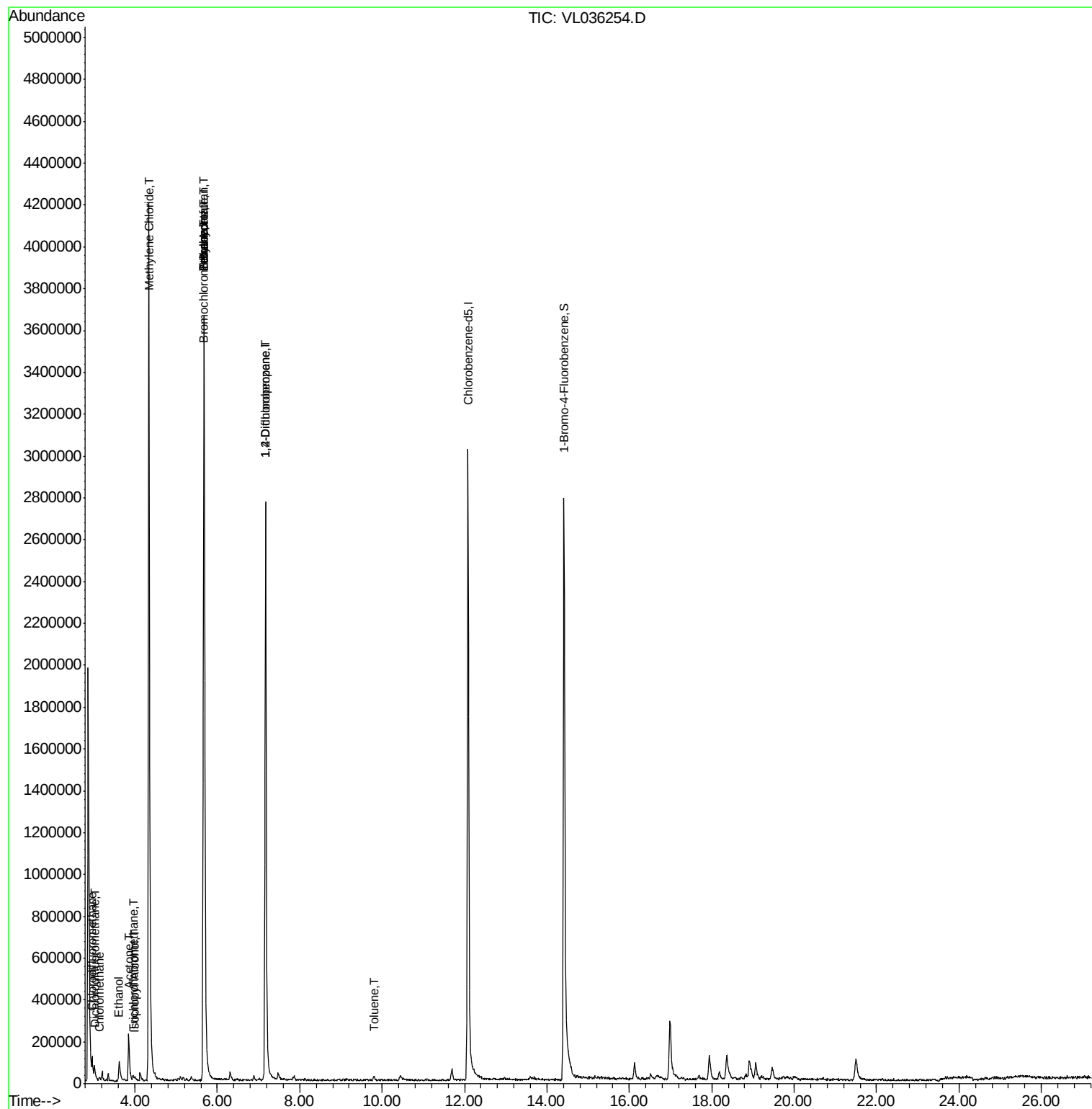
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	16440	0.108	ppbv	95
3) Chlorodifluoromethane	2.96	51	90773	0.653	ppbv #	69
4) Chloromethane	3.14	50	9590	0.140	ppbv	93
11) Trichlorofluoromethane	3.95	101	6988	0.045	ppbv	89
13) Ethanol	3.62	45	108592	10.446	ppbv	94
15) Acetone	3.85	43	289055	2.085	ppbv	95
19) Isopropyl Alcohol	3.98	45	4123	0.049	ppbv #	93
20) Methylene Chloride	4.34	84	1647787	37.238	ppbv	97
25) Ethyl Acetate	5.68	43	954368	3.429	ppbv #	76
26) Hexane	5.68	57	1292897	11.157	ppbv #	36
34) 2-Butanone	5.68	43	921251	5.748	ppbv #	56
39) 1,2-Dichloropropane	7.17	63	644994	7.966	ppbv #	22
41) Tetrahydrofuran	5.68	42	510507	5.511	ppbv #	51
53) Toluene	9.81	91	9437	0.042	ppbv #	66

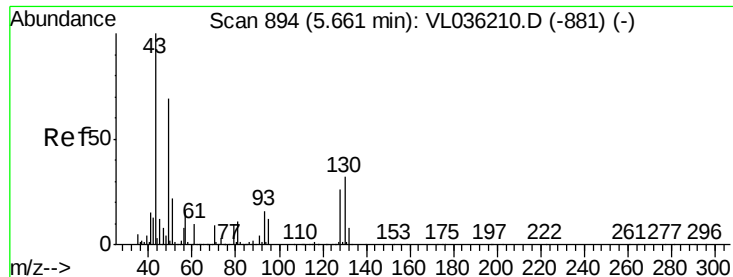
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036254.D

Acq: 20 Jan 2021 20:00

Instrument :

MSVOA_L

ClientSampleId :

QC122320 CAN 10448

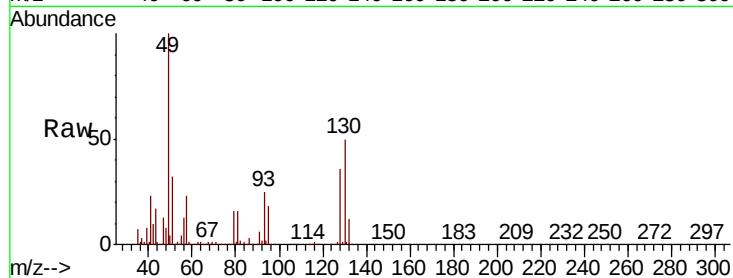
Tot Ion: 49 Resp: 1132031

Ion Ratio Lower Upper

49 100

128 40.1 20.1 60.2

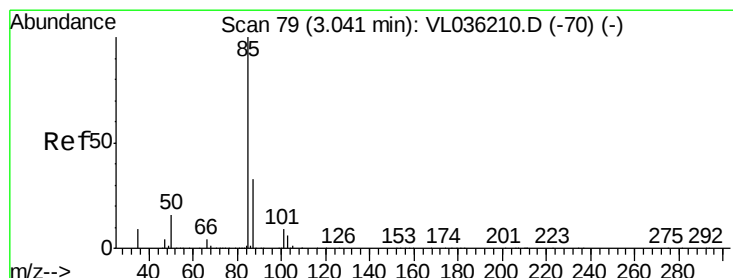
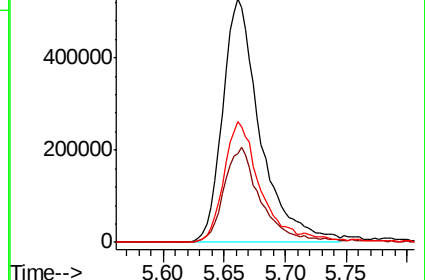
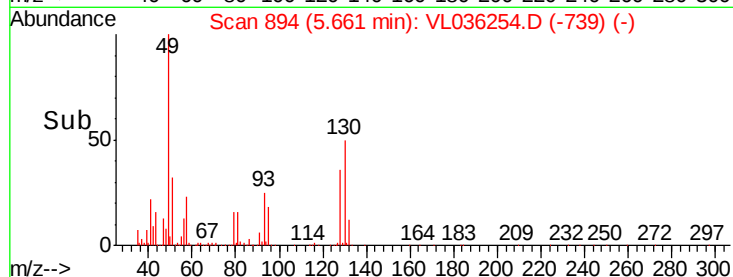
130 50.6 25.3 75.9



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



#2

Dichlorodifluoromethane

Concen: 0.108 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL036254.D

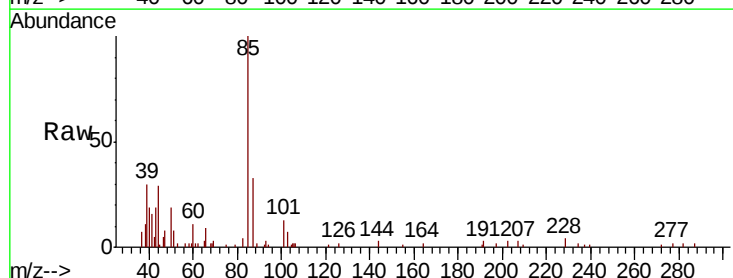
Acq: 20 Jan 2021 20:00

Tgt Ion: 85 Resp: 16440

Ion Ratio Lower Upper

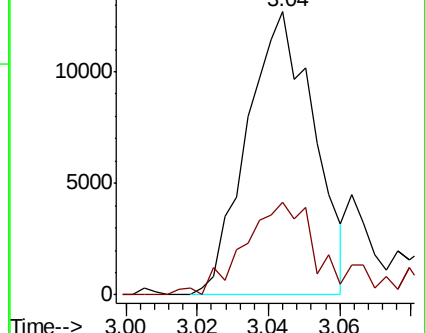
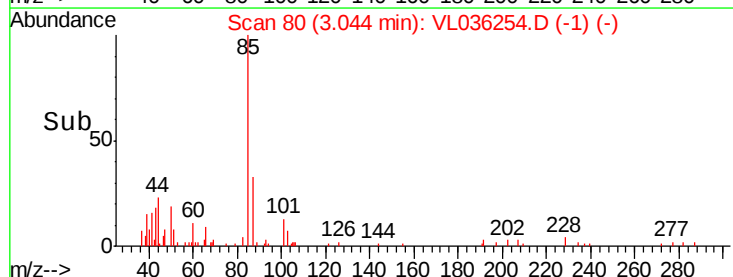
85 100

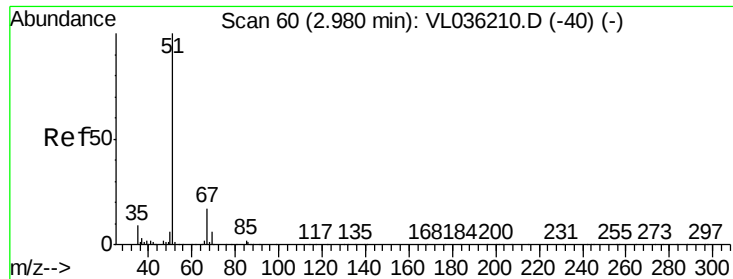
87 30.5 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.653 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL036254.D

Acq: 20 Jan 2021 20:00

Instrument :

MSVOA_L

ClientSampleId :

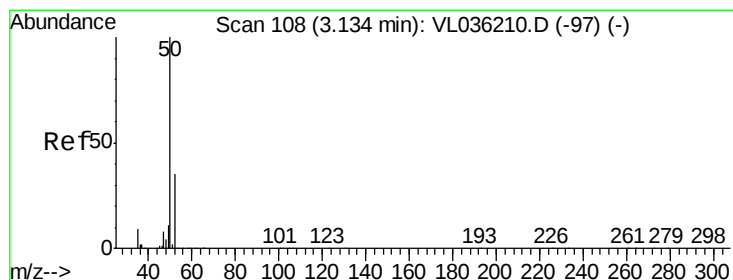
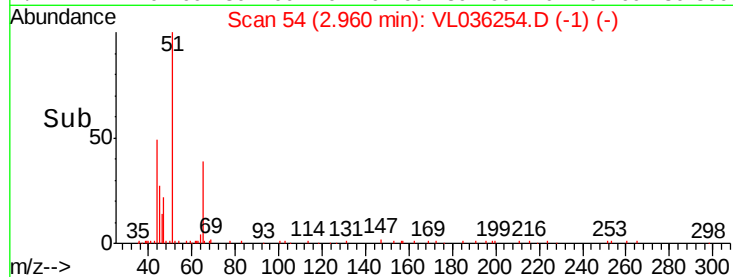
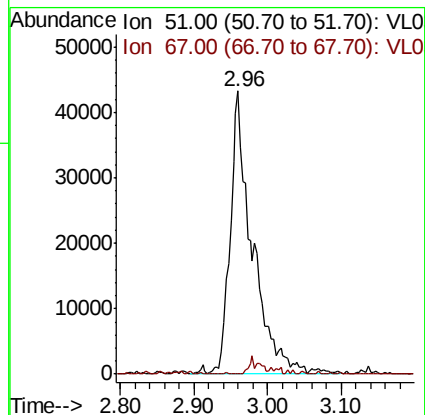
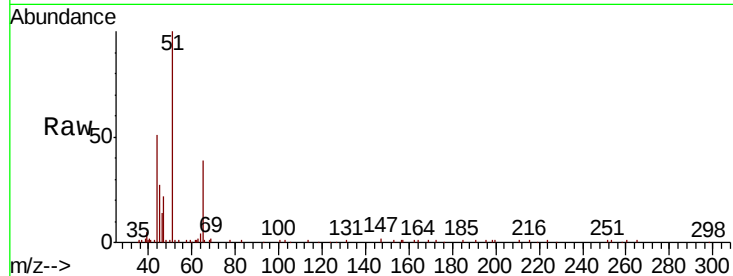
QC122320 CAN 10448

Tot Ion: 51 Resp: 90773

Ion Ratio Lower Upper

51 100

67 4.0 14.0 21.0#



#4

Chloromethane

Concen: 0.140 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL036254.D

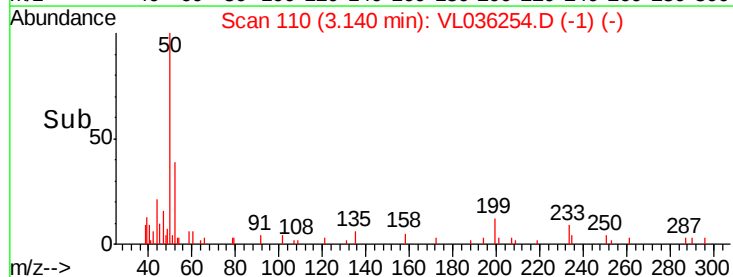
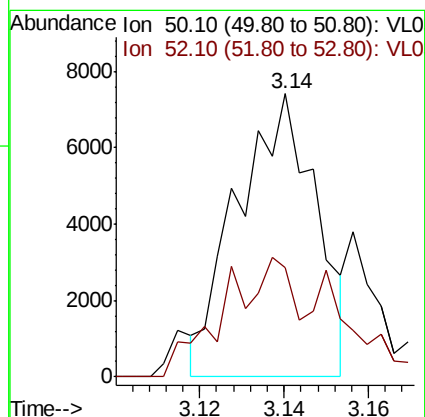
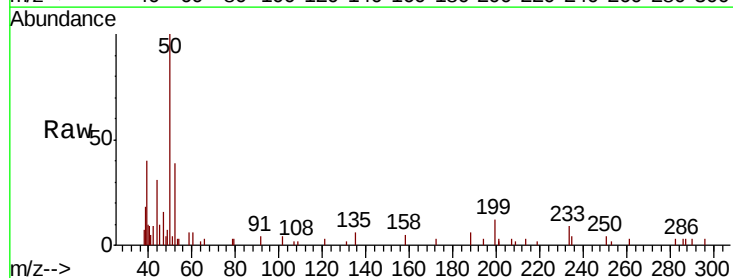
Acq: 20 Jan 2021 20:00

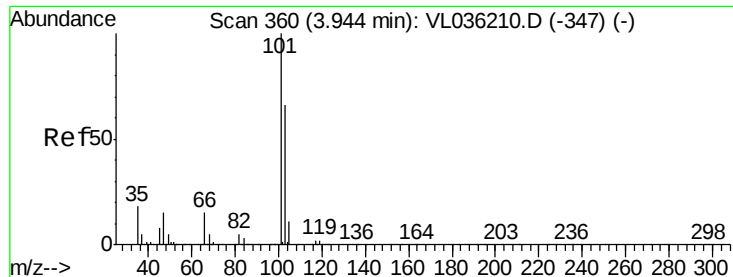
Tgt Ion: 50 Resp: 9590

Ion Ratio Lower Upper

50 100

52 31.0 27.8 41.8

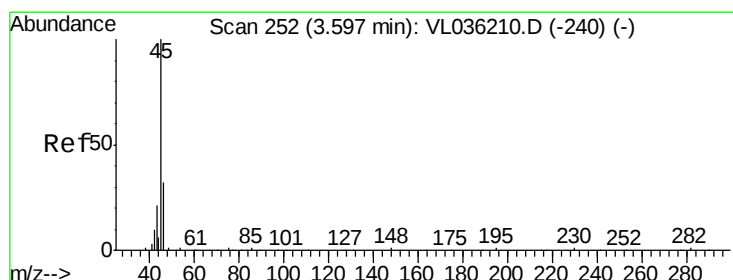
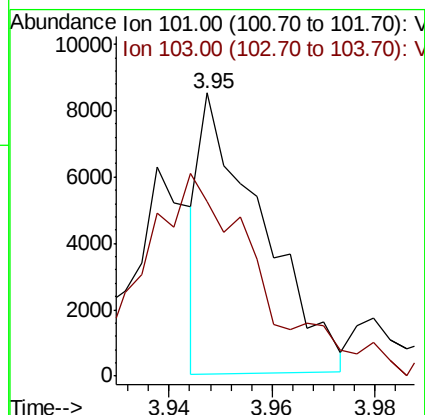
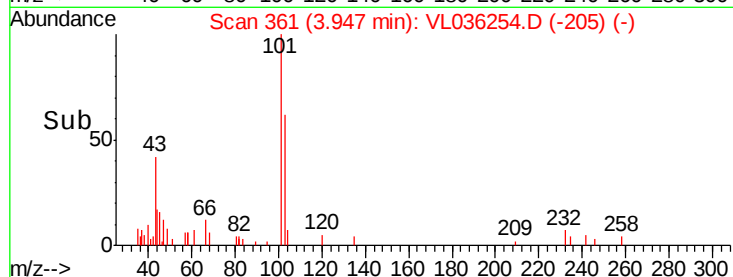
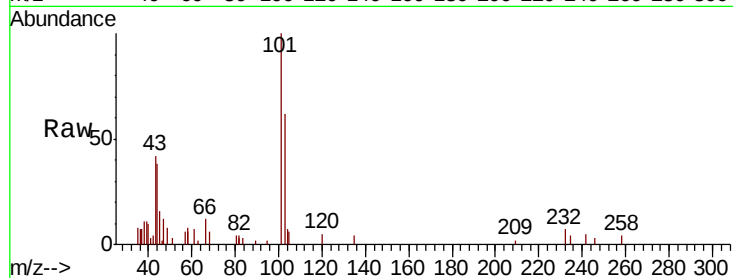




#11
 Trichlorofluoromethane
 Concen: 0.045 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL036254.D
 Acq: 20 Jan 2021 20:00

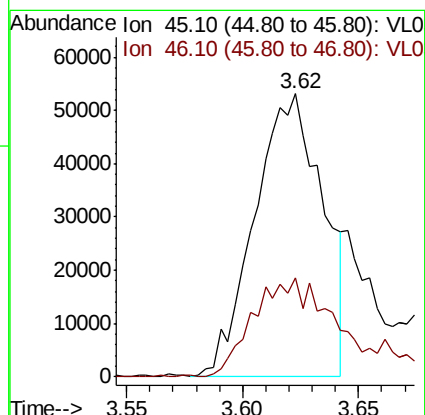
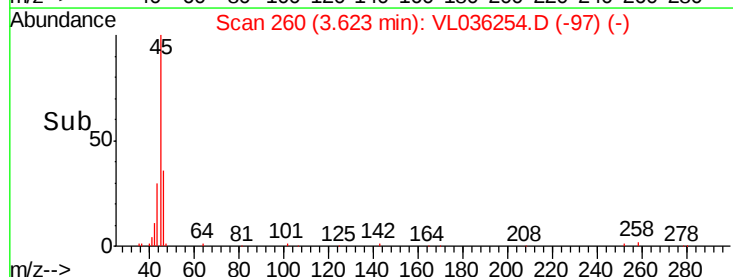
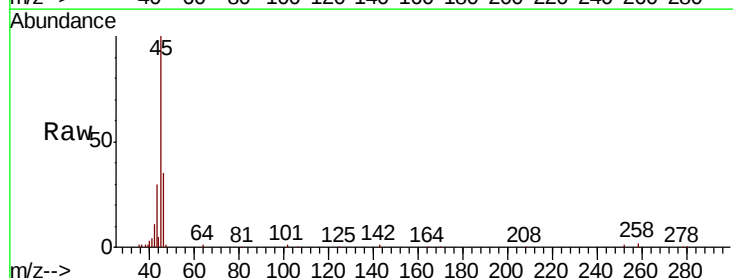
Instrument :
 MSVOA_L
 ClientSampleId :
 QC122320 CAN 10448

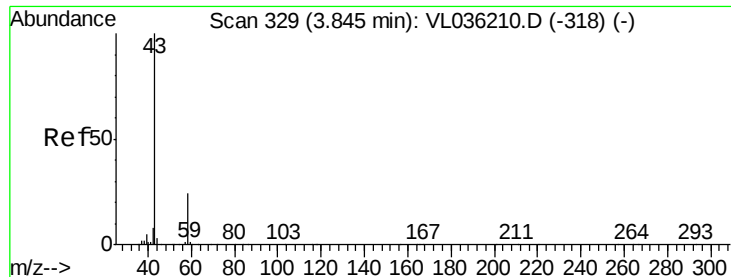
Tot Ion:101 Resp: 6988
 Ion Ratio Lower Upper
 101 100
 103 57.1 52.6 78.8



#13
 Ethanol
 Concen: 10.446 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.03 min
 Lab File: VL036254.D
 Acq: 20 Jan 2021 20:00

Tgt Ion: 45 Resp: 108592
 Ion Ratio Lower Upper
 45 100
 46 52.5 19.2 77.0





#15

Acetone

Concen: 2.085 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL036254.D

Acq: 20 Jan 2021 20:00

Instrument :

MSVOA_L

ClientSampleId :

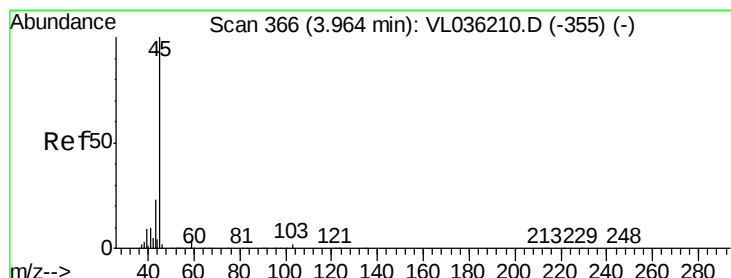
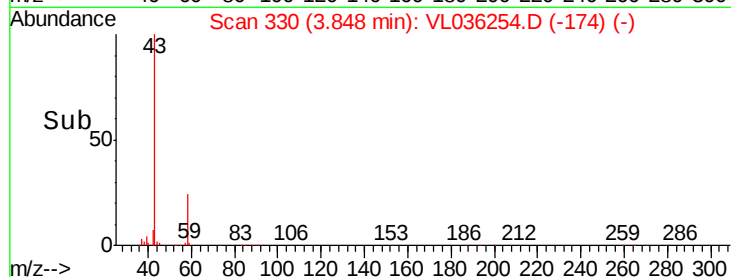
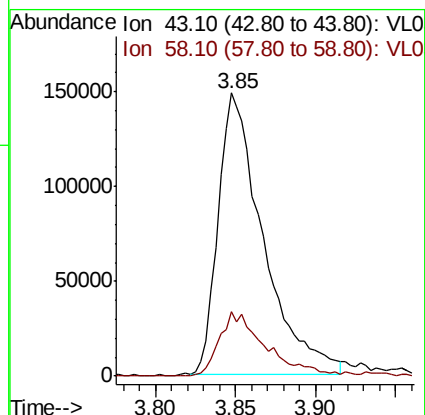
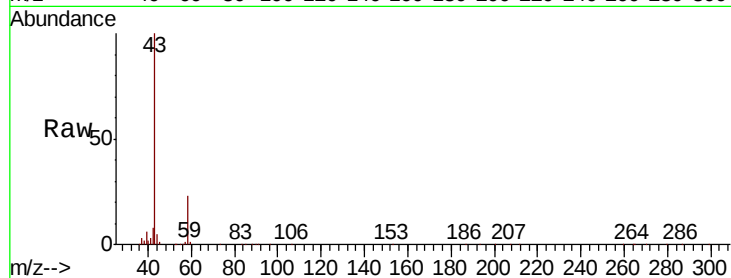
QC122320 CAN 10448

Tot Ion: 43 Resp: 289055

Ion Ratio Lower Upper

43 100

58 23.7 20.9 31.3



#19

Isopropyl Alcohol

Concen: 0.049 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL036254.D

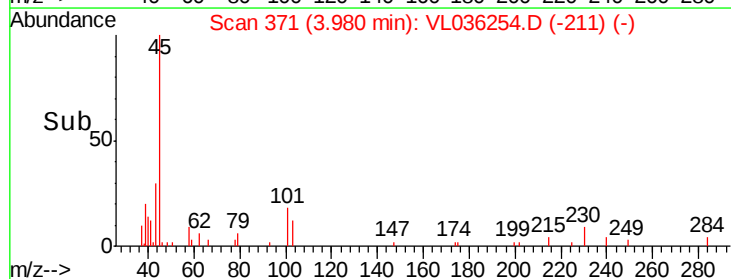
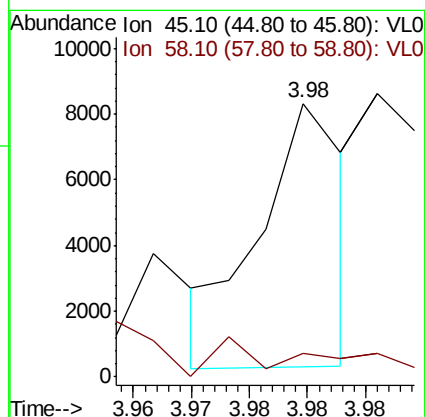
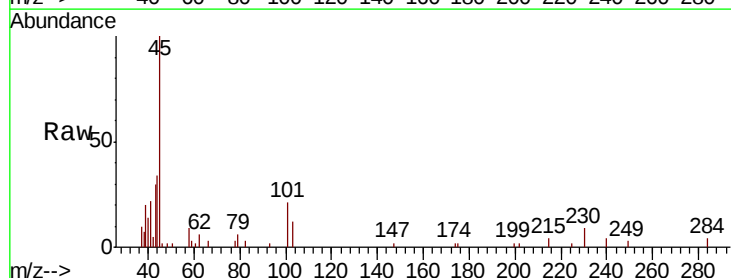
Acq: 20 Jan 2021 20:00

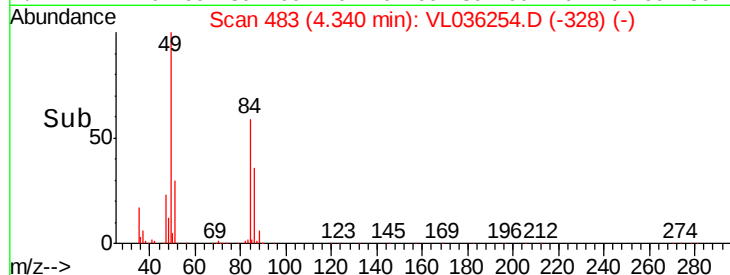
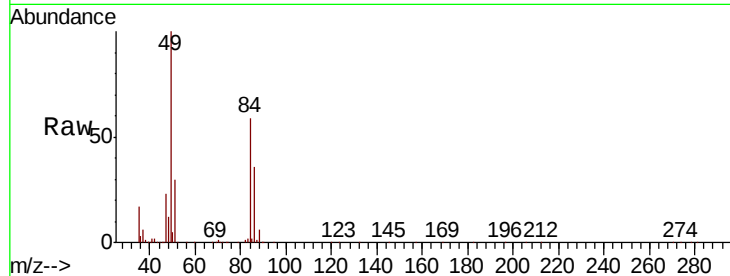
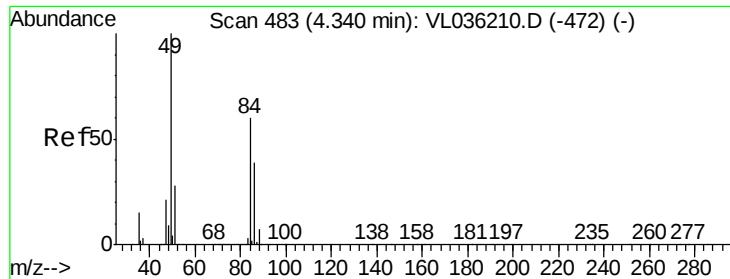
Tgt Ion: 45 Resp: 4123

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



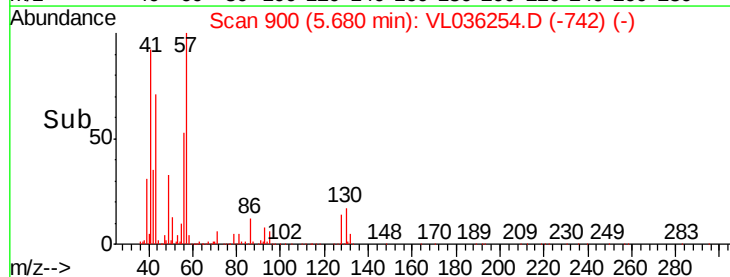
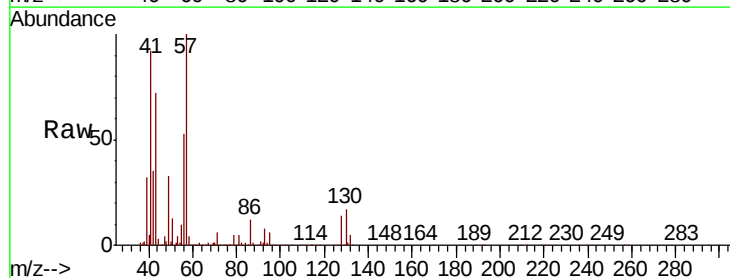
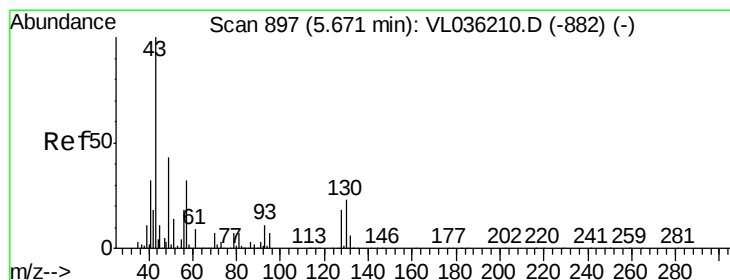
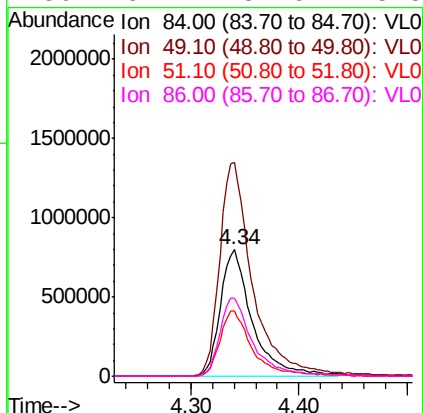


#20
Methvlene Chloride
Concen: 37.238 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036254.D
Acq: 20 Jan 2021 20:00

Instrument :
MSVOA_L
ClientSampleId :
QC122320 CAN 10448

Tot Ion: 84 Resp: 1647787

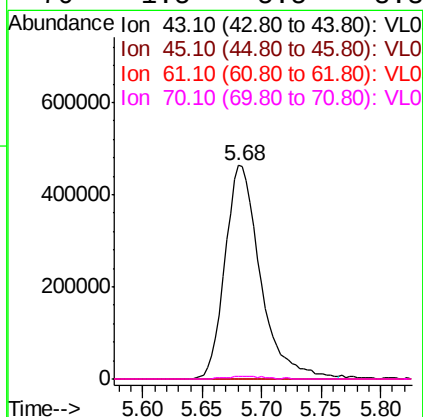
Ion	Ratio	Lower	Upper
84	100		
49	169.3	134.1	201.1
51	51.6	37.4	56.0
86	61.7	52.6	78.8

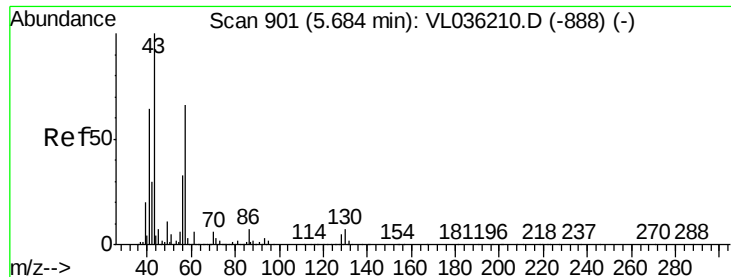


#25
Ethyl Acetate
Concen: 3.429 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL036254.D
Acq: 20 Jan 2021 20:00

Tgt Ion: 43 Resp: 954368

Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.3	12.5#
61	0.2	7.4	11.2#
70	1.5	5.5	8.3#





#26

Hexane

Concen: 11.157 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036254.D

Acq: 20 Jan 2021 20:00

Instrument :

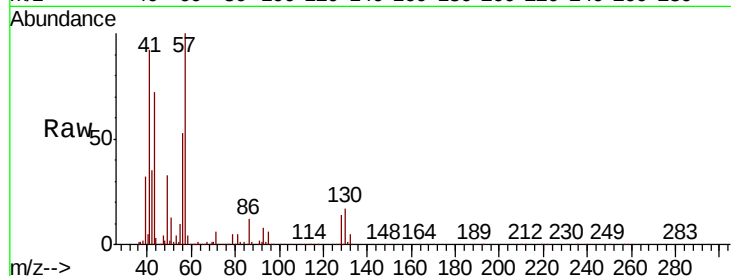
MSVOA_L

ClientSampleId :

QC122320 CAN 10448

Tot Ion: 57 Resp: 1292897

Ion	Ratio	Lower	Upper
57	100		
41	99.0	83.0	124.6
43	75.0	202.4	303.6#
56	55.9	43.4	65.0



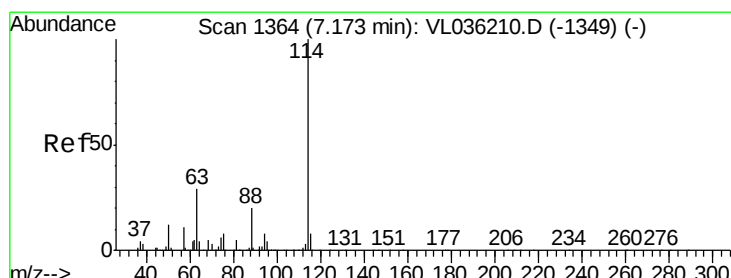
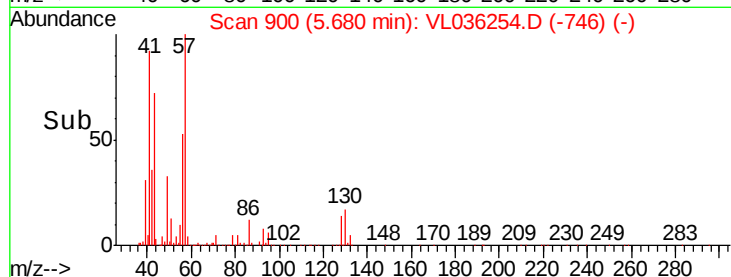
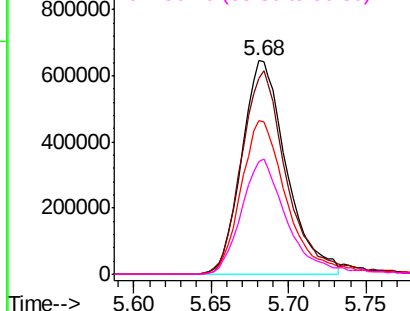
Abundance

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: 7.17 min Scan# 1363

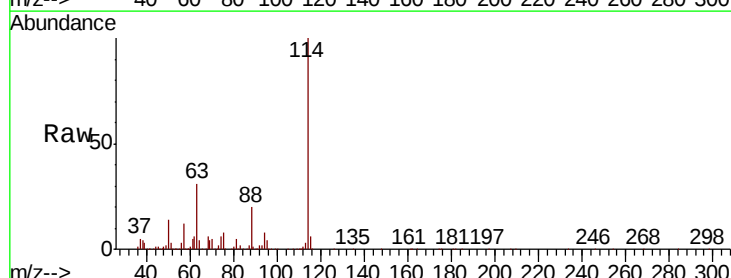
Delta R.T. -0.00 min

Lab File: VL036254.D

Acq: 20 Jan 2021 20:00

Tgt Ion: 114 Resp: 2176517

Ion	Ratio	Lower	Upper
114	100		
63	30.7	24.7	37.1
88	20.4	16.6	24.8

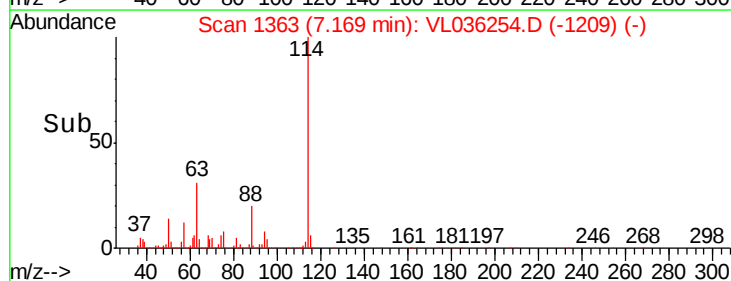
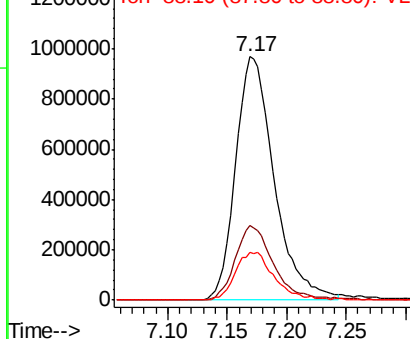


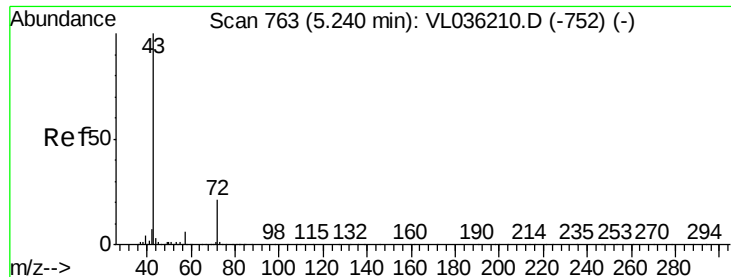
Abundance

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

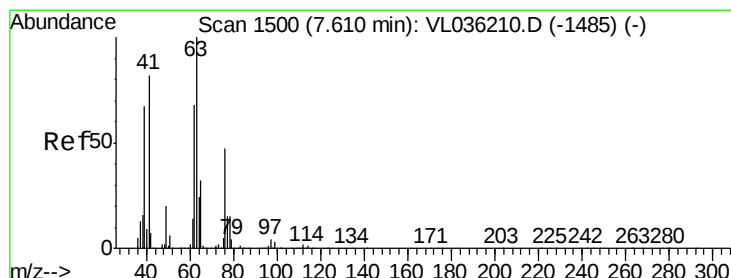
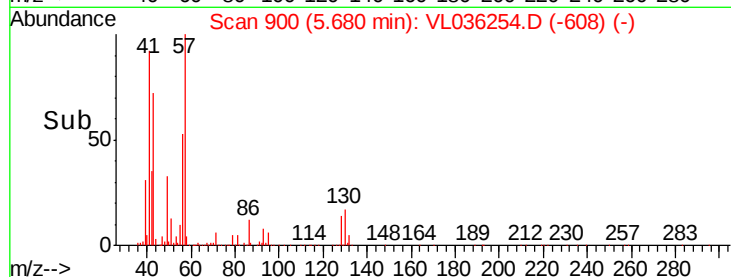
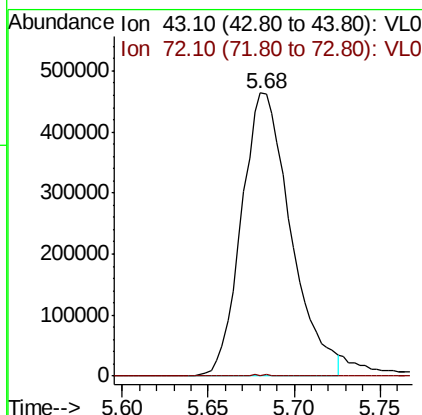
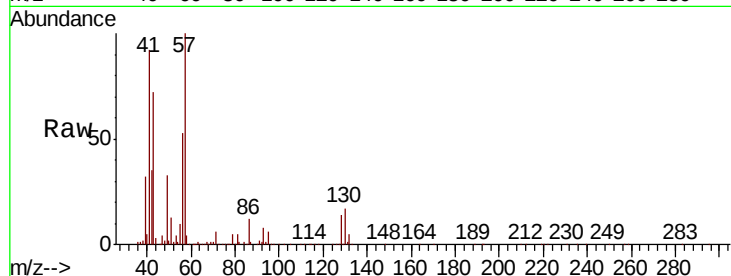




#34
 2-Butanone
 Concen: 5.748 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. 0.44 min
 Lab File: VL036254.D
 Acq: 20 Jan 2021 20:00

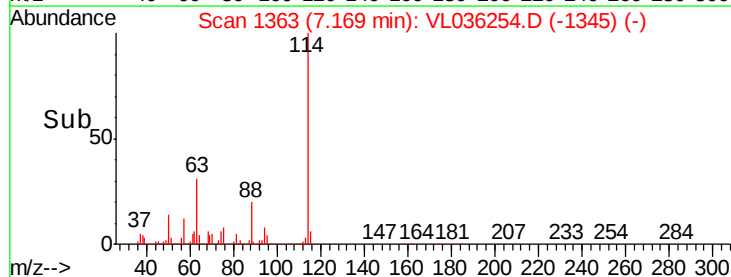
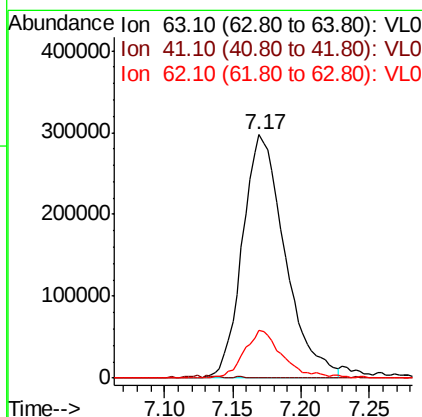
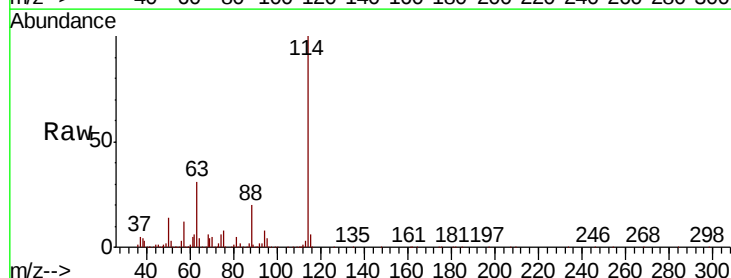
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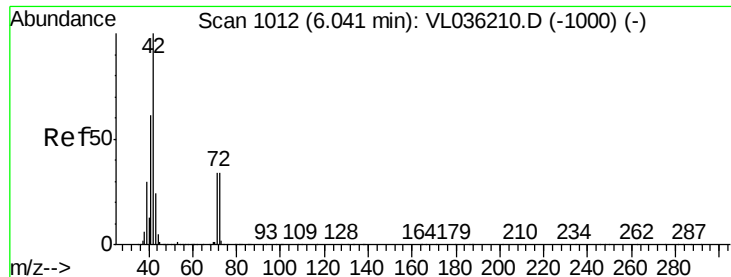
Tot Ion: 43 Resp: 921251
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.1 24.1#



#39
 1,2-Dichloropropane
 Concen: 7.966 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.44 min
 Lab File: VL036254.D
 Acq: 20 Jan 2021 20:00

Tgt Ion: 63 Resp: 644994
 Ion Ratio Lower Upper
 63 100
 41 0.0 66.1 99.1#
 62 19.8 54.8 82.2#





#41

Tetrahydrofuran

Concen: 5.511 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.36 min

Lab File: VL036254.D

Acq: 20 Jan 2021 20:00

Instrument :

MSVOA_L

ClientSampleId :

QC122320 CAN 10448

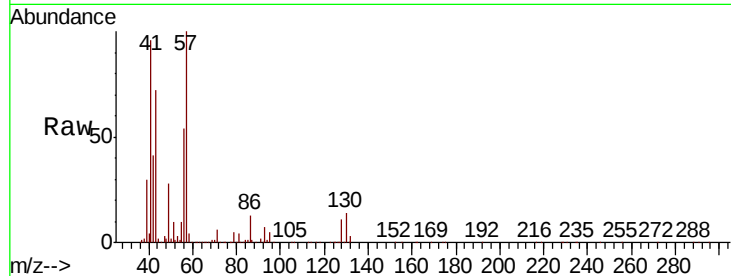
Tot Ion: 42 Resp: 510507

Ion Ratio Lower Upper

42 100

72 0.8 29.5 44.3#

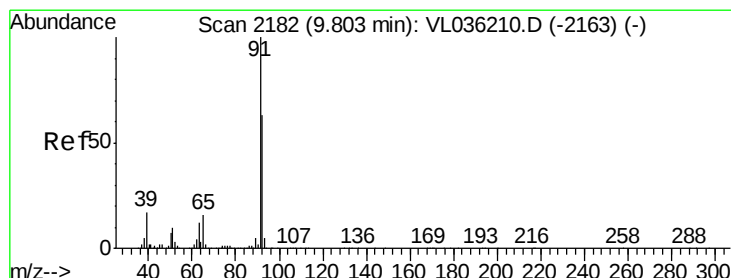
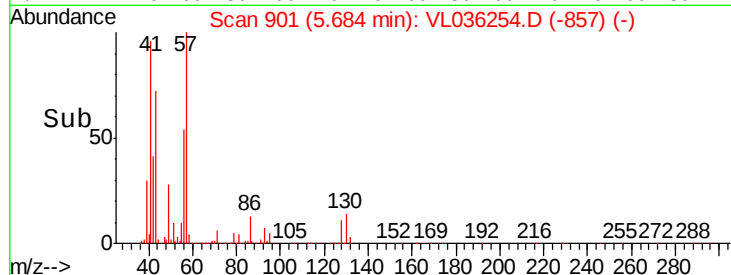
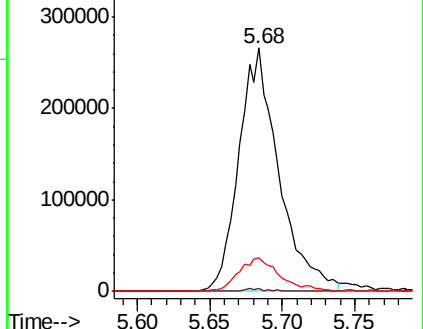
71 14.5 29.1 43.7#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.042 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL036254.D

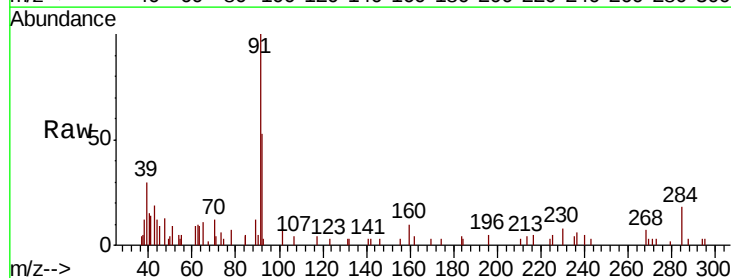
Acq: 20 Jan 2021 20:00

Tgt Ion: 91 Resp: 9437

Ion Ratio Lower Upper

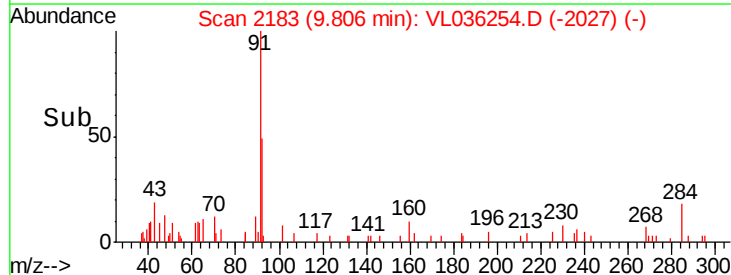
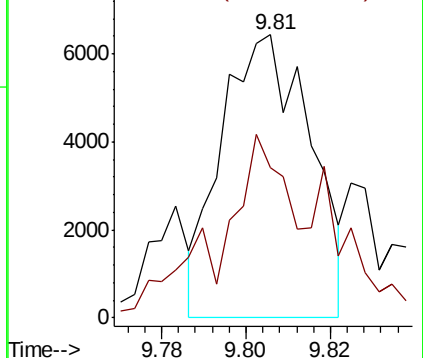
91 100

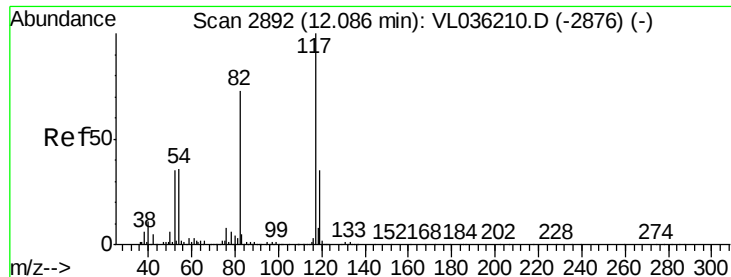
92 86.1 48.5 72.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

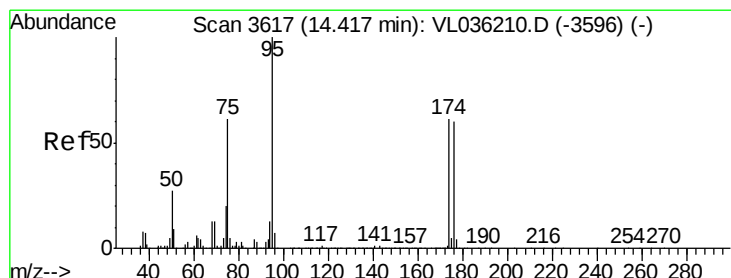
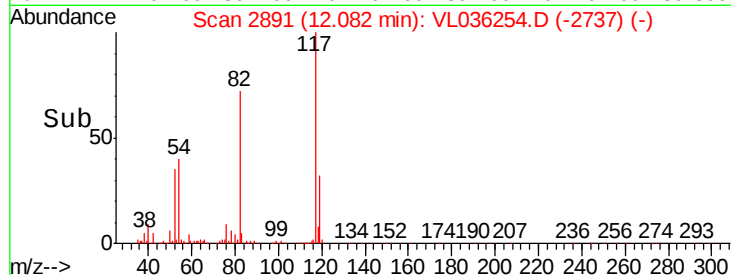
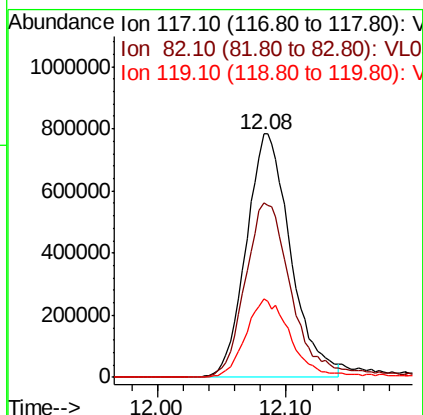
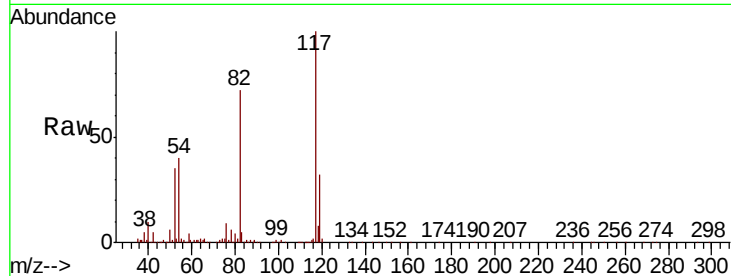




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.00 min
Lab File: VL036254.D
Acq: 20 Jan 2021 20:00

Instrument :
MSVOA_L
ClientSampleId :
QC122320 CAN 10448

Tot Ion:117 Resp: 1872969
Ion Ratio Lower Upper
117 100
82 77.8 59.7 89.5
119 33.9 28.6 43.0



#68
1-Bromo-4-Fluorobenzene
Concen: 5.527 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.00 min
Lab File: VL036254.D
Acq: 20 Jan 2021 20:00

Tgt Ion: 95 Resp: 856844
Ion Ratio Lower Upper
95 100
174 116.3 49.4 74.0#
175 8.2 3.8 5.8#

