

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
 Data File : VL035134.D
 Acq On : 30 Jun 2020 20:53
 Operator : SY/AP
 Sample : L3124-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 01 03:02:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1252968	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2939862	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2752409	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2321907	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

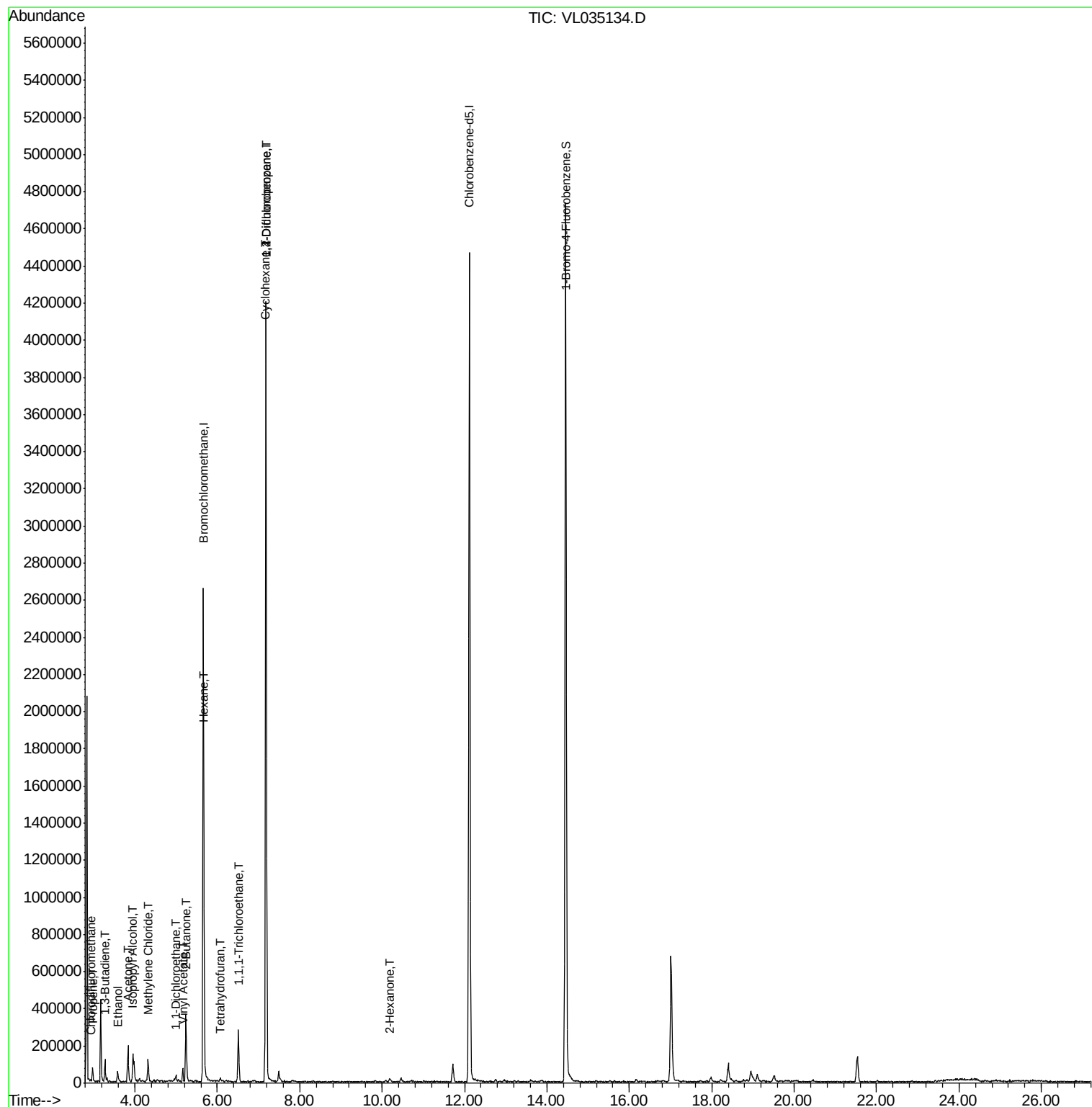
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.92	51	4817	0.035	ppbv #	58
9) Propene	2.97	41	25679	0.469	ppbv	92
13) Ethanol	3.58	45	51700	2.497	ppbv	95
15) Acetone	3.83	43	169212	1.117	ppbv #	76
16) 1,3-Butadiene	3.28	39	27634	0.416	ppbv #	17
19) Isopropyl Alcohol	3.95	45	156499	1.591	ppbv #	97
20) Methylene Chloride	4.32	84	35058	0.572	ppbv	97
23) Vinyl Acetate	5.16	43	18024	0.098	ppbv #	17
24) 1,1-Dichloroethane	5.00	63	16619	0.107	ppbv	99
26) Hexane	5.68	57	13235	0.107	ppbv #	42
30) Cyclohexane	7.17	84	3708	0.042	ppbv #	6
32) 1,1,1-Trichloroethane	6.51	97	158409	0.885	ppbv	99
34) 2-Butanone	5.24	43	412838	2.445	ppbv	97
39) 1,2-Dichloropropane	7.18	63	790285	8.876	ppbv #	24
41) Tetrahydrofuran	6.08	42	6843	0.079	ppbv #	83
51) 2-Hexanone	10.19	43	17656	0.094	ppbv #	99

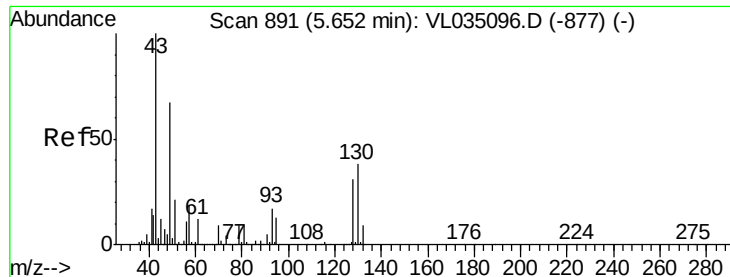
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
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MSVOA_L
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Quant Time: Jul 01 03:02:07 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
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QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Instrument :

MSVOA_L

ClientSampleId :

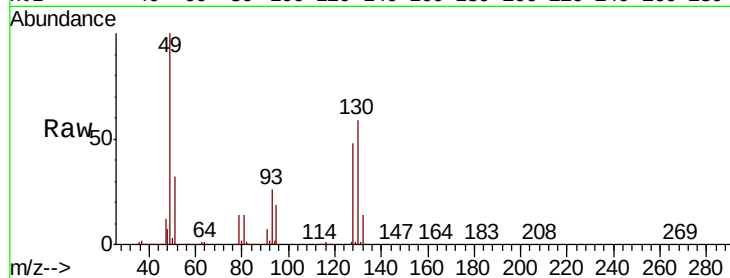
Tot Ion: 49 Resp: 1252968

Ion Ratio Lower Upper

49 100

128 46.5 22.9 68.5

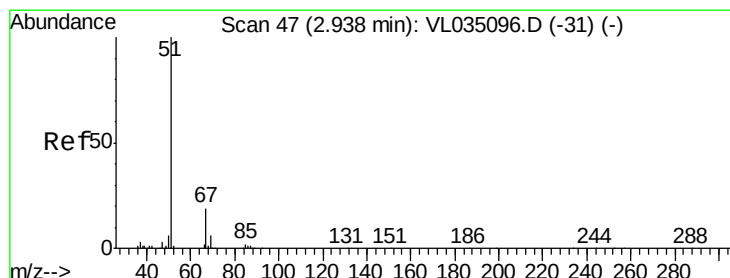
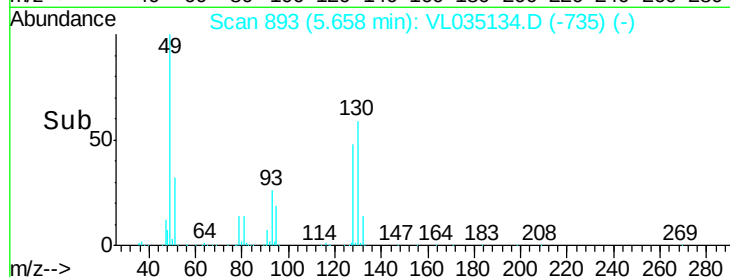
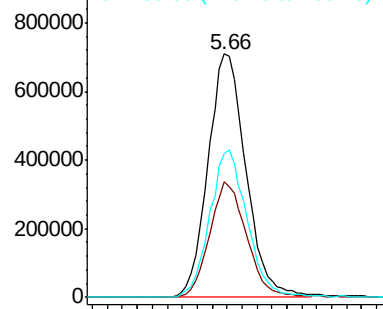
130 60.2 29.0 87.0



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



#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 2.92 min Scan# 42

Delta R.T. -0.02 min

Lab File: VL035134.D

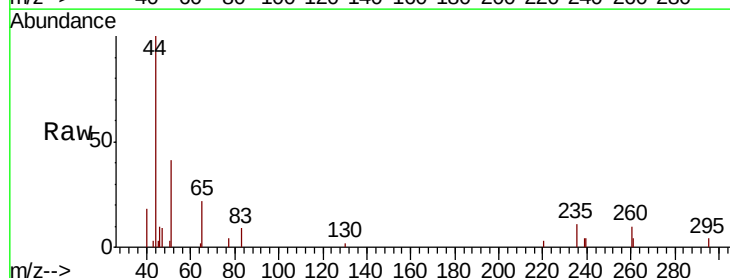
Acq: 30 Jun 2020 20:53

Tgt Ion: 51 Resp: 4817

Ion Ratio Lower Upper

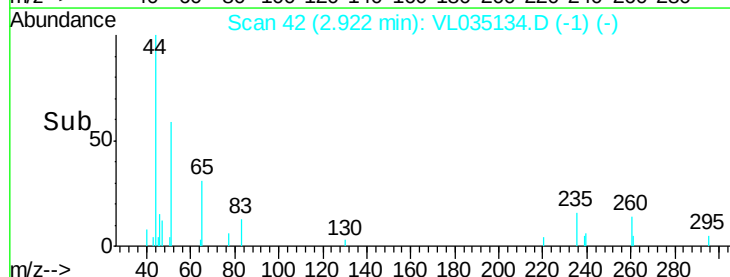
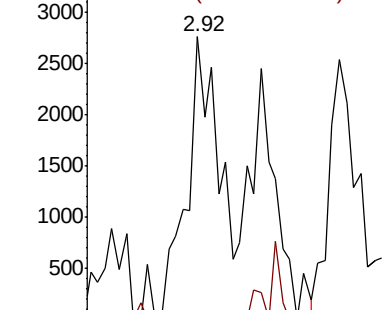
51 100

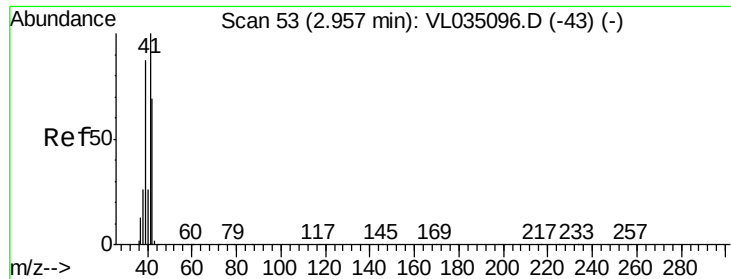
67 0.0 15.2 22.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.469 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.02 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Instrument :

MSVOA_L

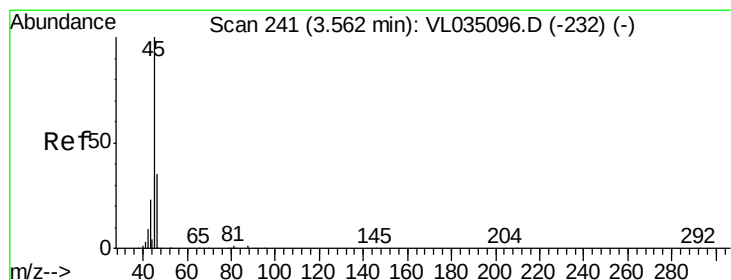
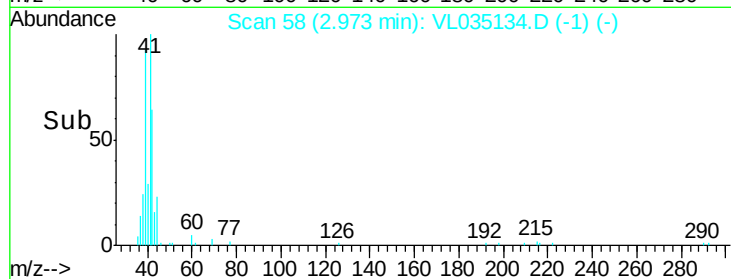
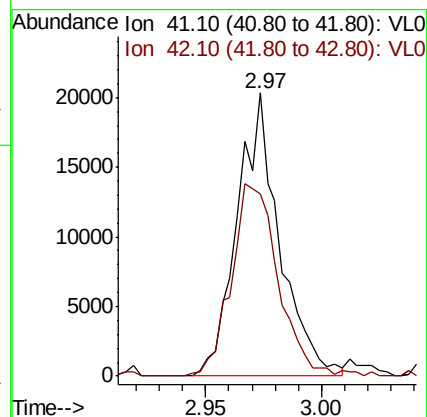
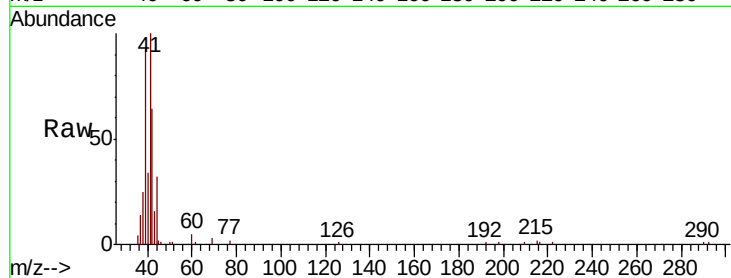
ClientSampleId :

Tot Ion: 41 Resp: 25679

Ion Ratio Lower Upper

41 100

42 76.1 55.8 83.6



#13

Ethanol

Concen: 2.497 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.02 min

Lab File: VL035134.D

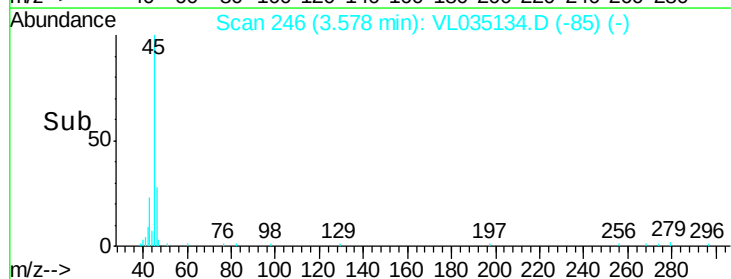
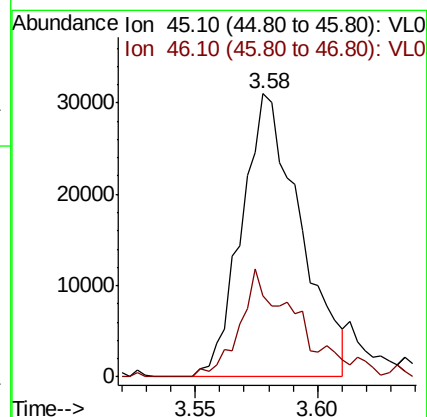
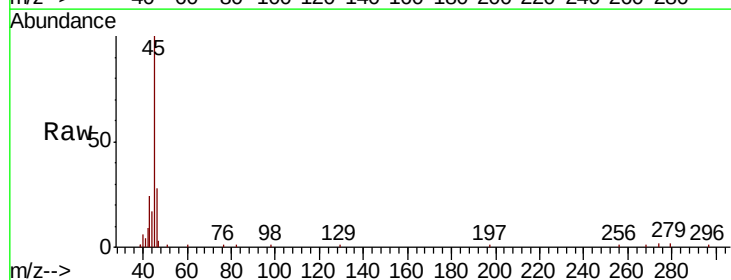
Acq: 30 Jun 2020 20:53

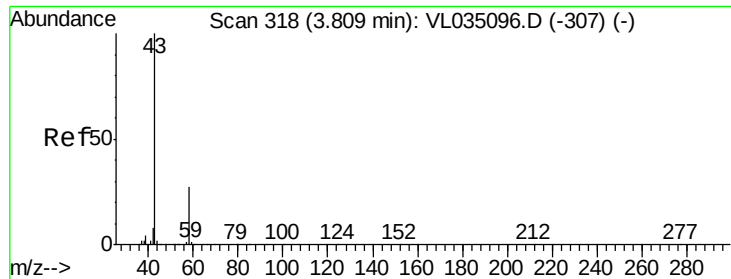
Tgt Ion: 45 Resp: 51700

Ion Ratio Lower Upper

45 100

46 38.5 14.2 57.0





#15

Acetone

Concen: 1.117 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.02 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Instrument :

MSVOA_L

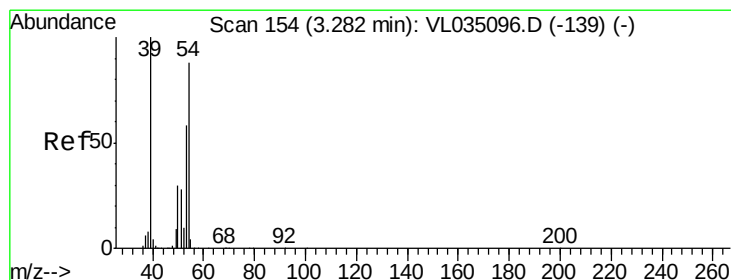
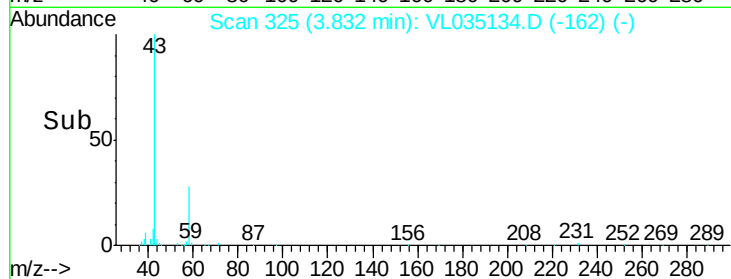
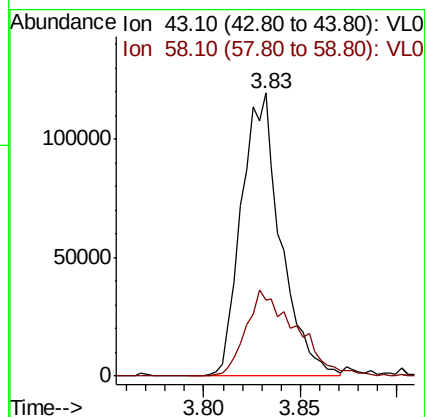
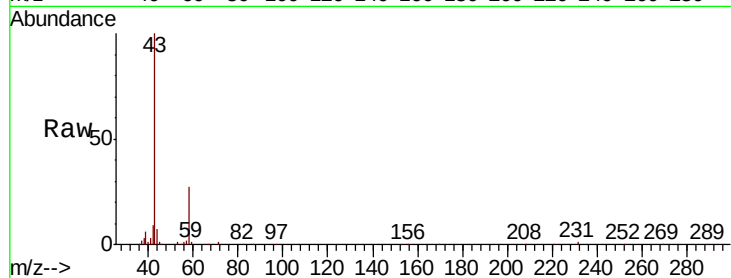
ClientSampleId :

Tot Ion: 43 Resp: 169212

Ion Ratio Lower Upper

43 100

58 39.6 21.8 32.6#



#16

1,3-Butadiene

Concen: 0.416 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.01 min

Lab File: VL035134.D

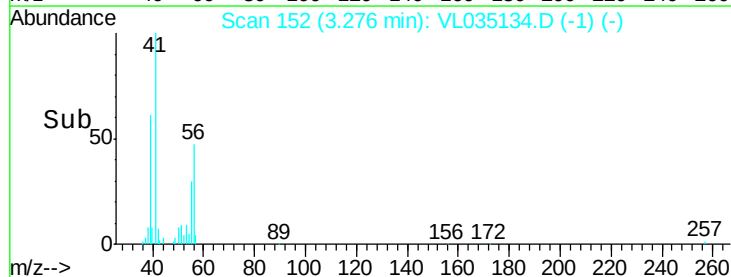
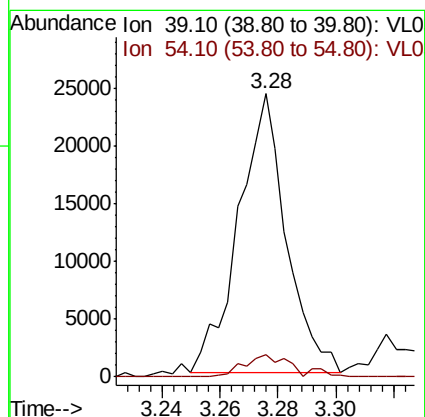
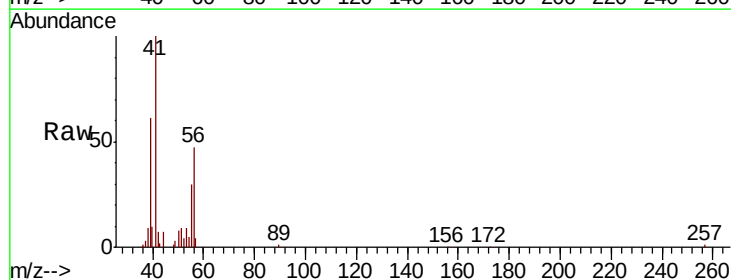
Acq: 30 Jun 2020 20:53

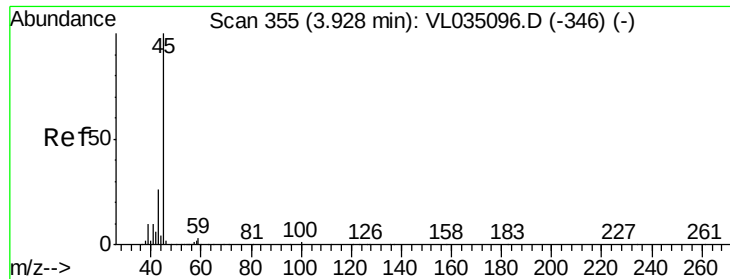
Tgt Ion: 39 Resp: 27634

Ion Ratio Lower Upper

39 100

54 8.2 67.0 100.4#





#19

Isopropyl Alcohol

Concen: 1.591 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.02 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Instrument :

MSVOA_L

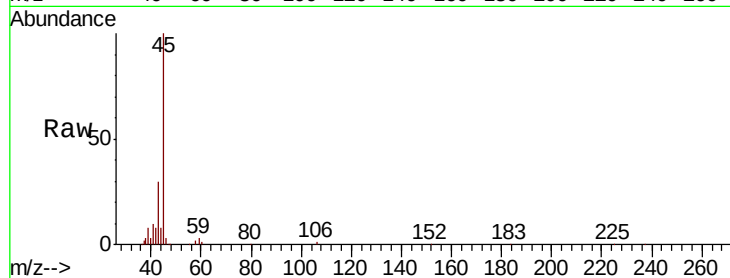
ClientSampleId :

Tot Ion: 45 Resp: 156499

Ion Ratio Lower Upper

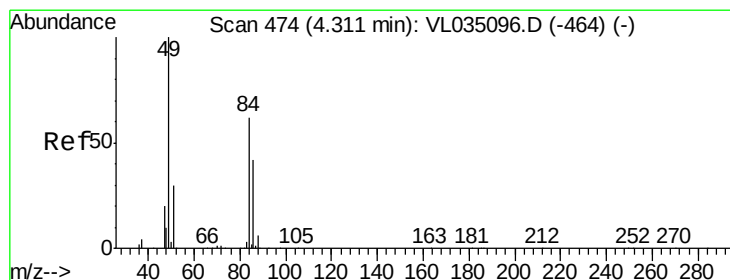
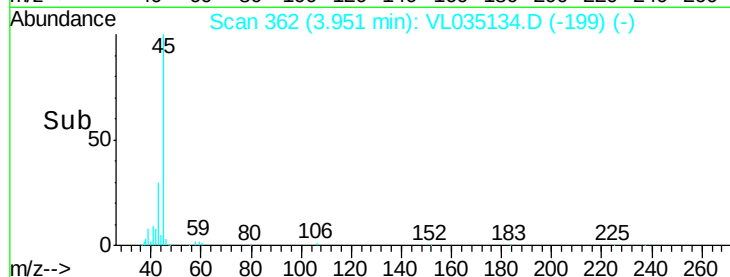
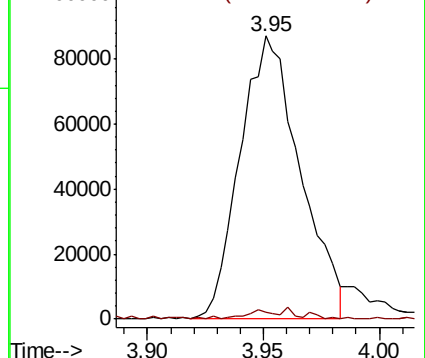
45 100

58 3.3 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.572 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Tgt Ion: 84 Resp: 35058

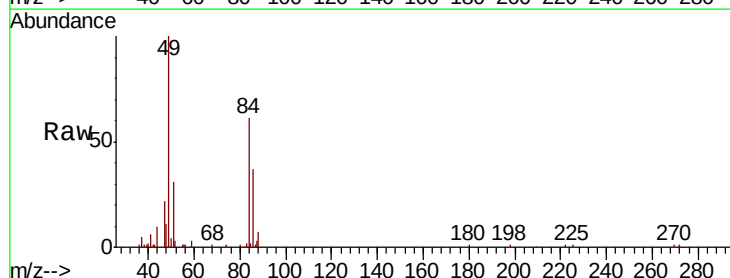
Ion Ratio Lower Upper

84 100

49 159.1 128.8 193.2

51 49.3 38.7 58.1

86 60.0 54.1 81.1

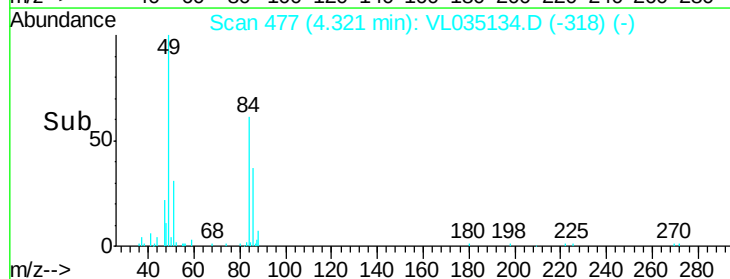
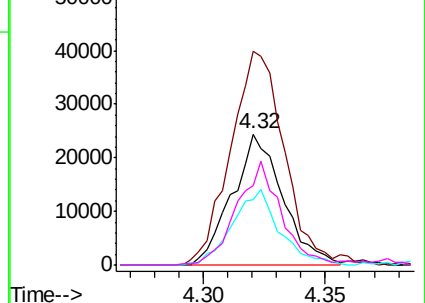


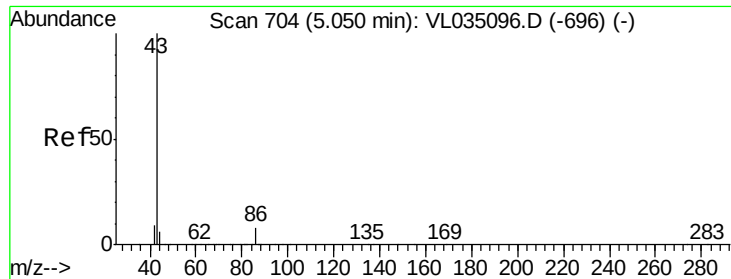
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

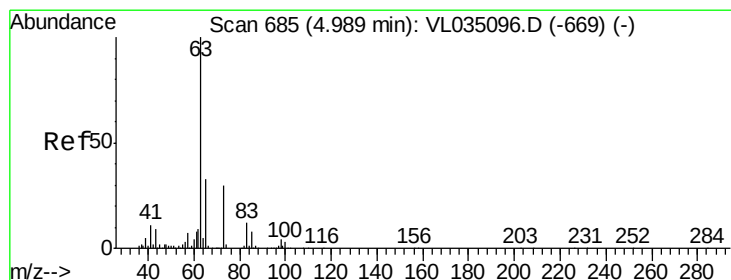
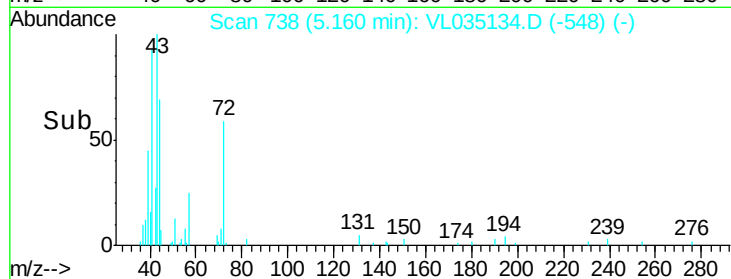
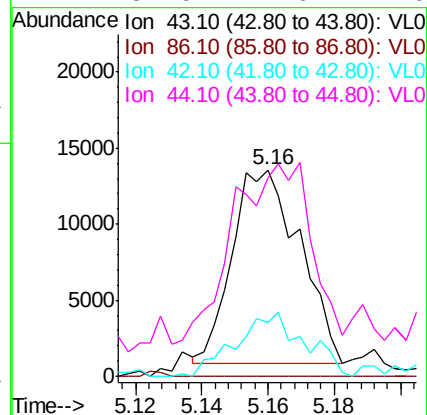
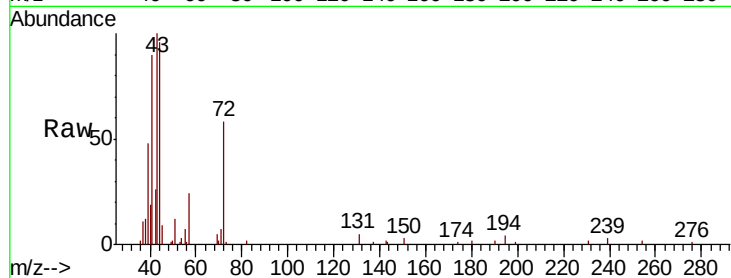




#23
 Vinyl Acetate
 Concen: 0.098 ppbv
 RT: 5.16 min Scan# 738
 Delta R.T. 0.11 min
 Lab File: VL035134.D
 Acq: 30 Jun 2020 20:53

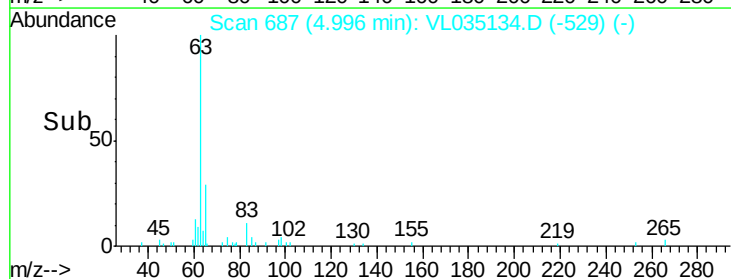
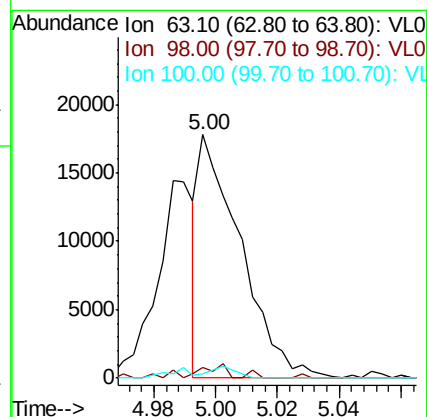
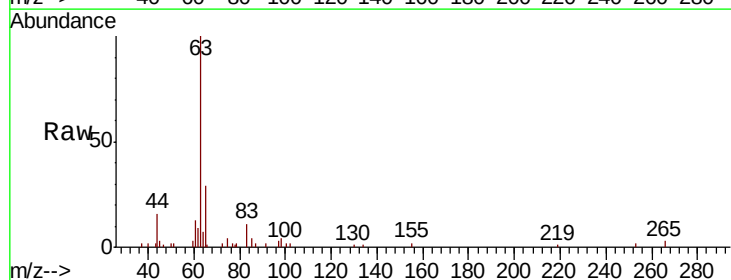
Instrument :
 MSVOA_L
 ClientSampleId :

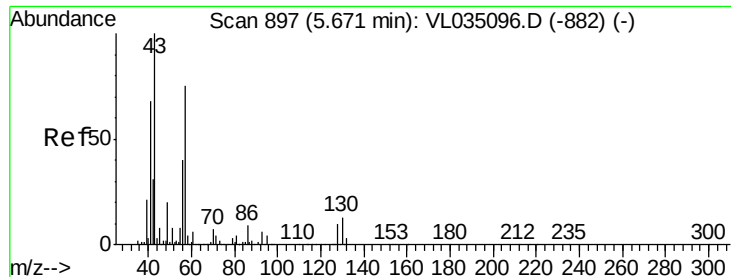
Tot Ion:	43	Resp:	18024
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.2#
42	27.5	8.1	12.1#
44	81.5	4.6	7.0#



#24
 1,1-Dichloroethane
 Concen: 0.107 ppbv
 RT: 5.00 min Scan# 687
 Delta R.T. 0.01 min
 Lab File: VL035134.D
 Acq: 30 Jun 2020 20:53

Tgt Ion:	63	Resp:	16619
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.3	6.9
100	1.8	1.4	4.0





#26

Hexane

Concen: 0.107 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

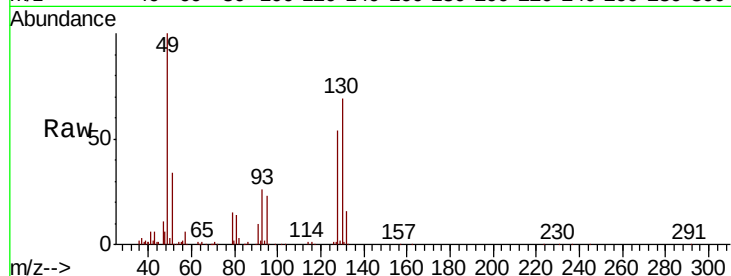
Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 13235

Ion	Ratio	Lower	Upper
57	100		
41	120.4	72.9	109.3#
43	99.3	181.3	271.9#
56	69.3	43.1	64.7#



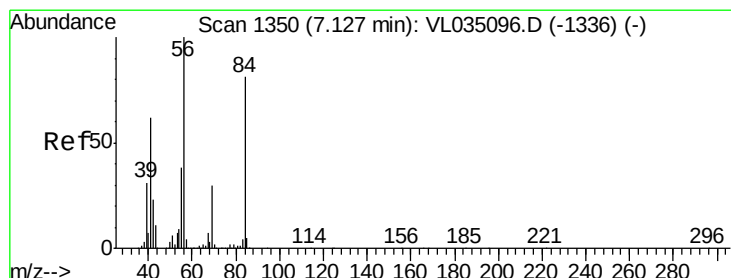
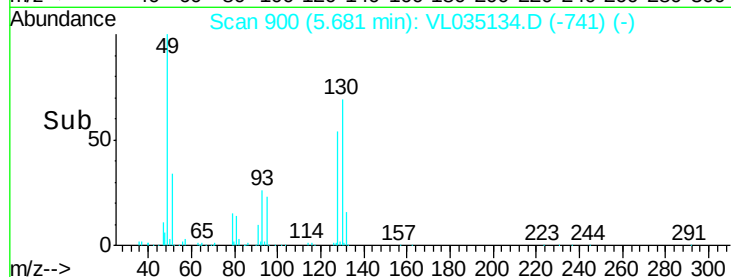
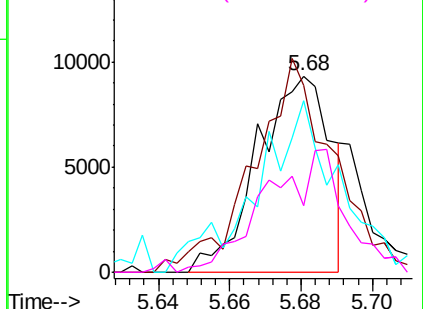
Abundance

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



#30

Cyclohexane

Concen: 0.042 ppbv

RT: 7.17 min Scan# 1362

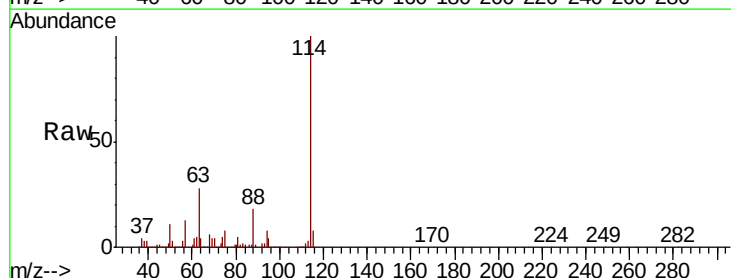
Delta R.T. 0.04 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Tgt Ion: 84 Resp: 3708

Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.0	162.0#
41	25.2	65.6	98.4#

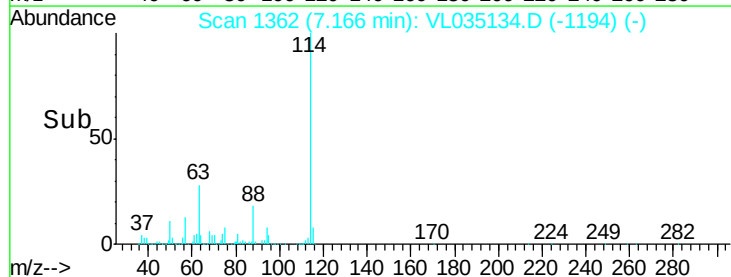
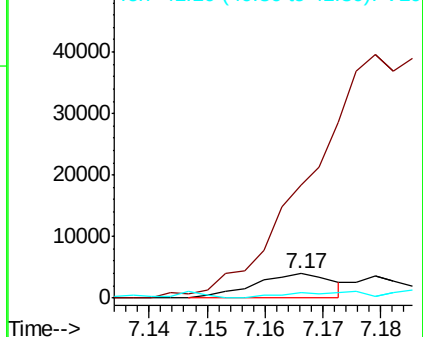


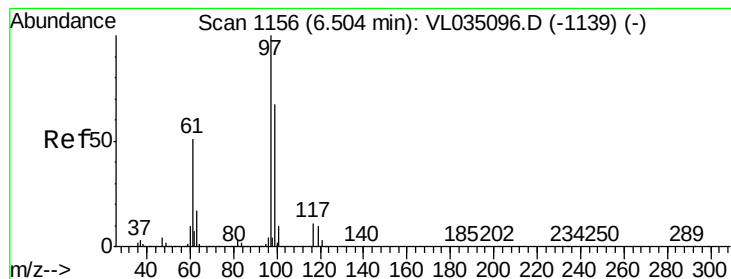
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.885 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

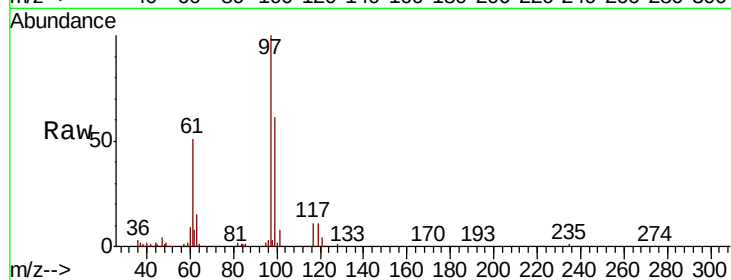
Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 97 Resp: 158409

Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.0	78.0
61	52.5	41.0	61.6

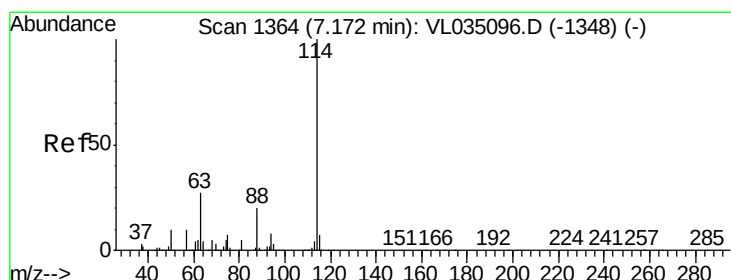
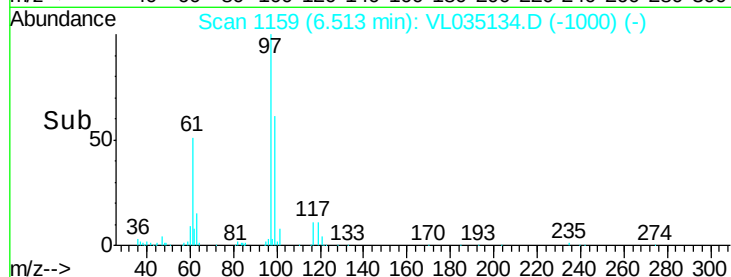
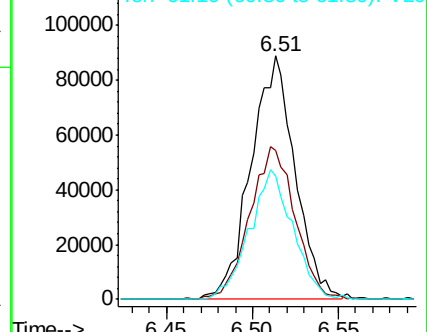


Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

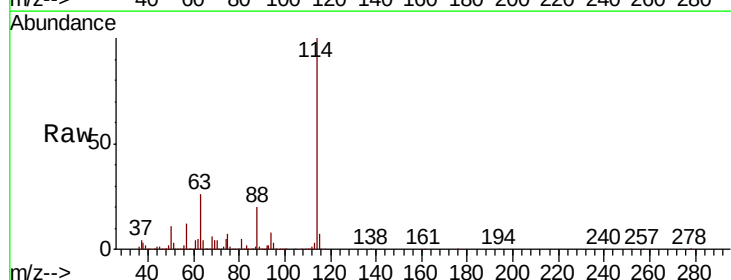
Delta R.T. 0.01 min

Lab File: VL035134.D

Acq: 30 Jun 2020 20:53

Tgt Ion: 114 Resp: 2939862

Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.9	32.9
88	19.4	15.6	23.4

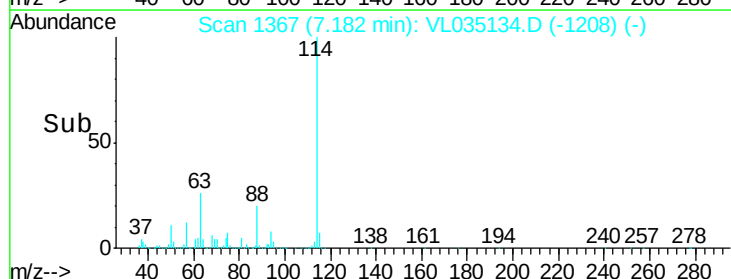
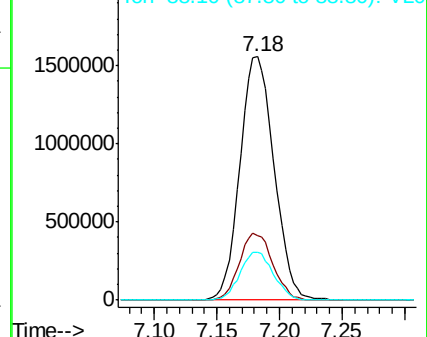


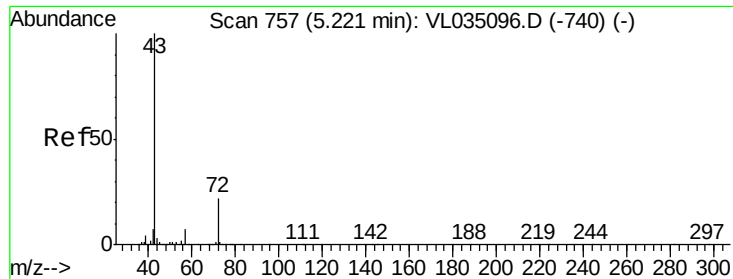
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

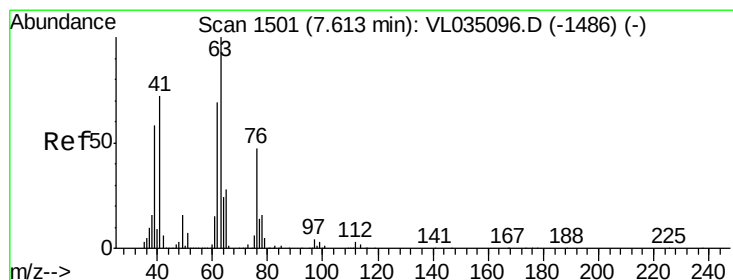
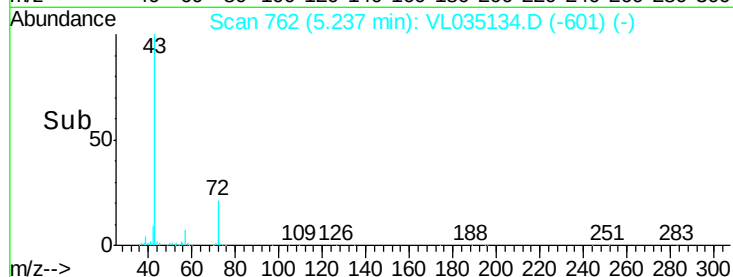
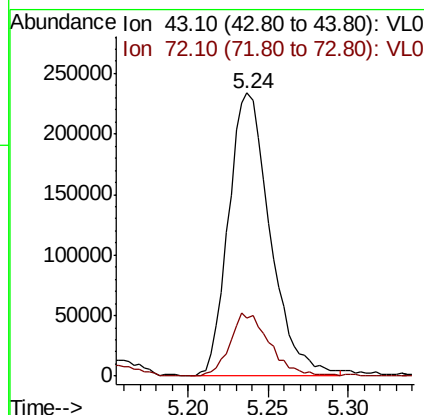
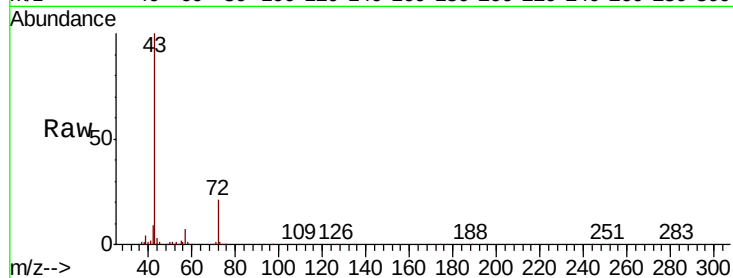




#34
2-Butanone
Concen: 2.445 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.02 min
Lab File: VL035134.D
Acq: 30 Jun 2020 20:53

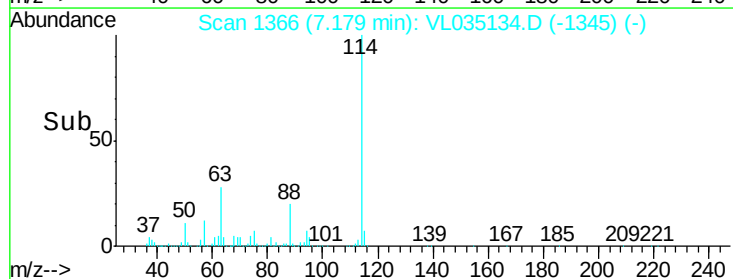
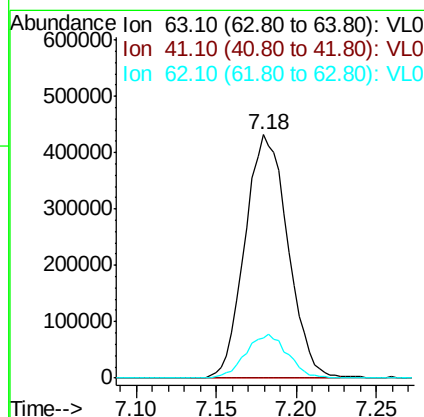
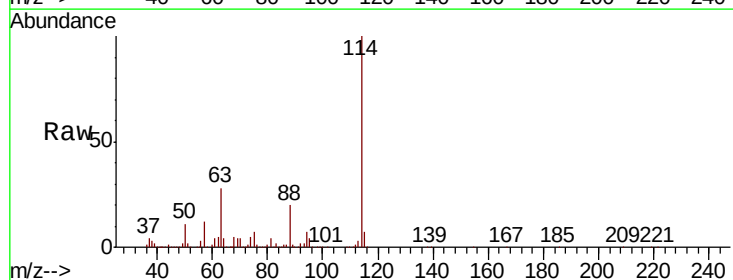
Instrument :
MSVOA_L
ClientSampled :

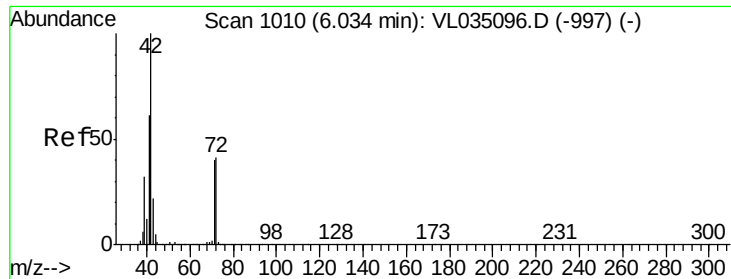
Tot Ion: 43 Resp: 412838
Ion Ratio Lower Upper
43 100
72 21.3 18.3 27.5



#39
1,2-Dichloropropane
Concen: 8.876 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.43 min
Lab File: VL035134.D
Acq: 30 Jun 2020 20:53

Tgt Ion: 63 Resp: 790285
Ion Ratio Lower Upper
63 100
41 0.1 58.0 87.0#
62 16.3 55.4 83.0#

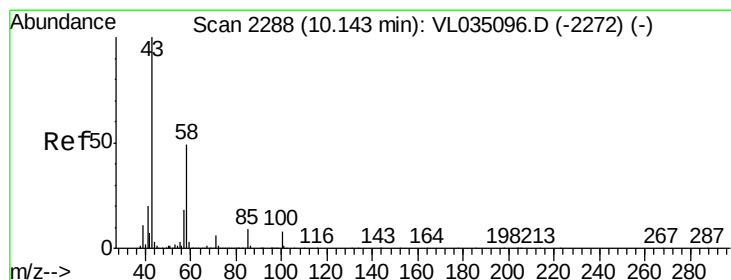
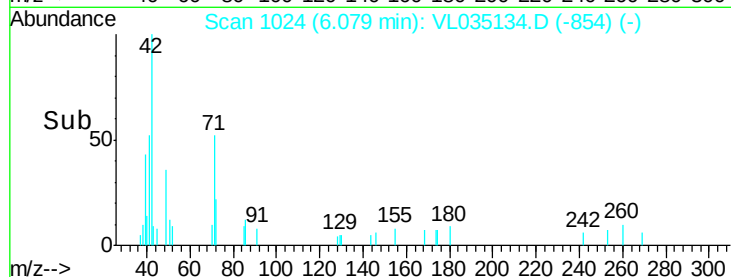
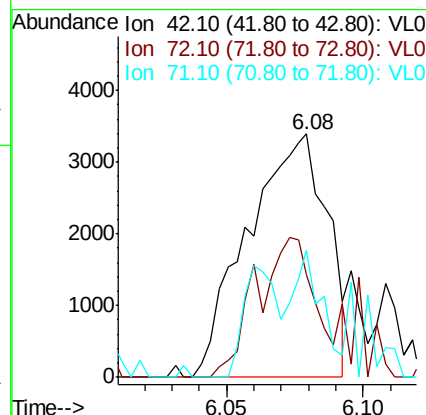
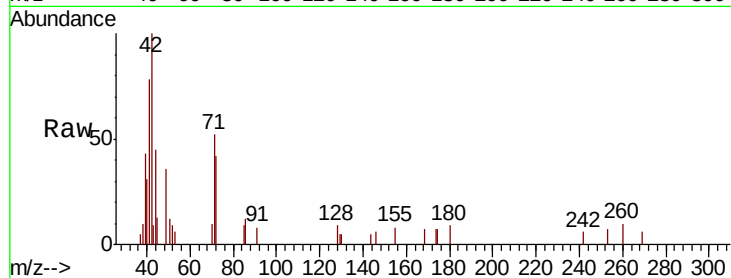




#41
Tetrahydrofuran
Concen: 0.079 ppbv
RT: 6.08 min Scan# 1024
Delta R.T. 0.05 min
Lab File: VL035134.D
Acq: 30 Jun 2020 20:53

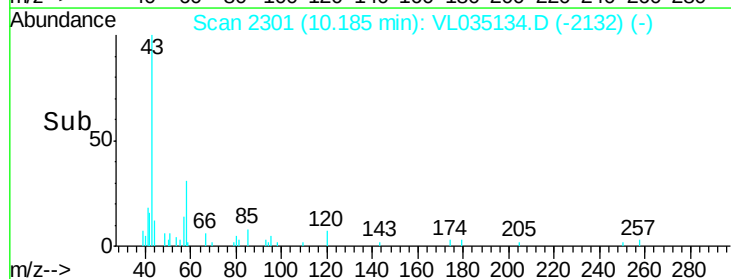
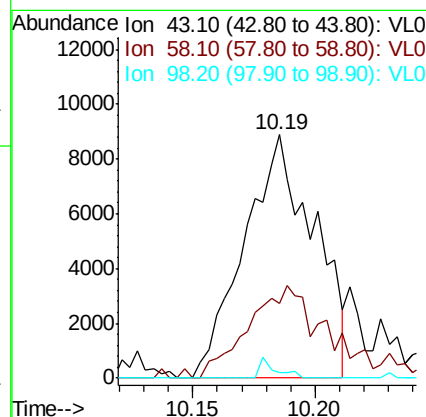
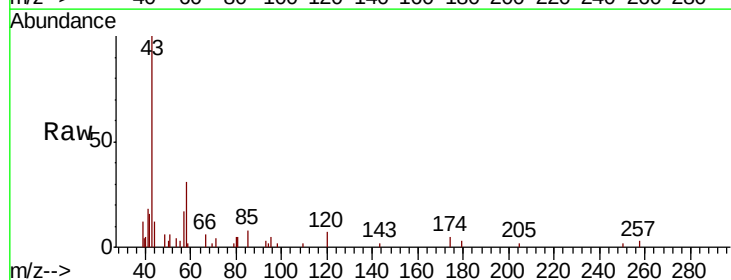
Instrument :
MSVOA_L
ClientSampleId :

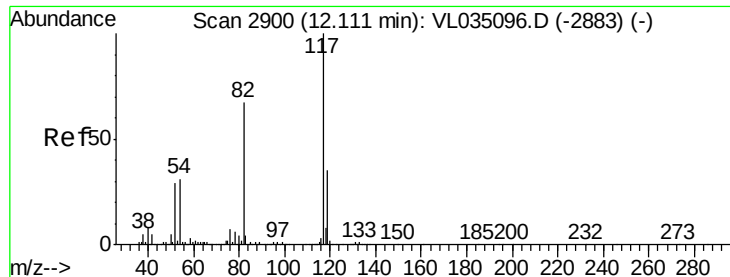
Tot Ion: 42 Resp: 6843
Ion Ratio Lower Upper
42 100
72 52.0 33.4 50.2#
71 50.2 31.8 47.6#



#51
2-Hexanone
Concen: 0.094 ppbv
RT: 10.19 min Scan# 2301
Delta R.T. 0.04 min
Lab File: VL035134.D
Acq: 30 Jun 2020 20:53

Tgt Ion: 43 Resp: 17656
Ion Ratio Lower Upper
43 100
58 48.1 39.2 58.8
98 1.8 0.3 0.5#

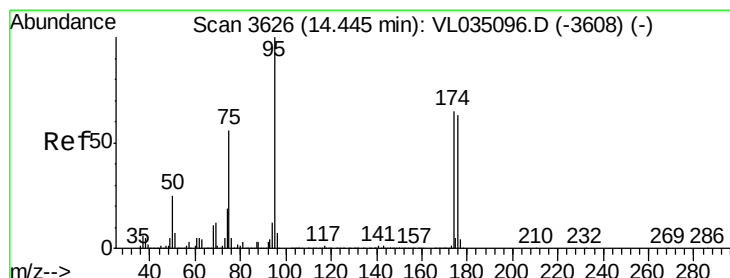
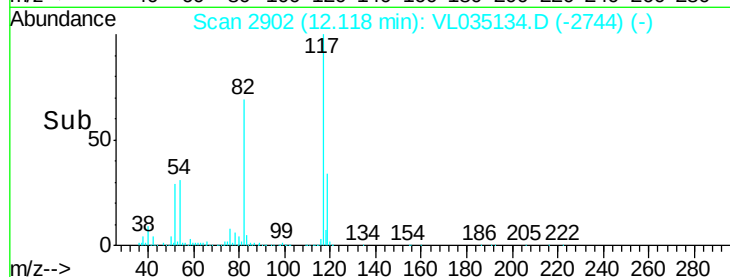
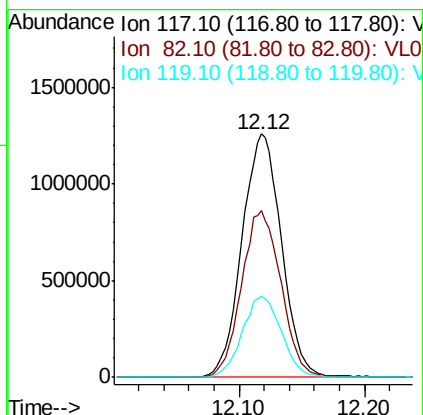
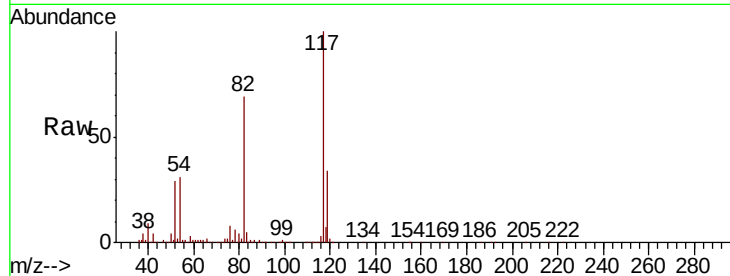




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.01 min
Lab File: VL035134.D
Acq: 30 Jun 2020 20:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2752409
Ion Ratio Lower Upper
117 100
82 68.7 50.4 75.6
119 33.2 25.4 38.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.155 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. 0.01 min
Lab File: VL035134.D
Acq: 30 Jun 2020 20:53

Tgt Ion: 95 Resp: 2321907
Ion Ratio Lower Upper
95 100
174 65.3 52.2 78.2
175 5.0 4.0 6.0

