

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035765.D
 Acq On : 12 Oct 2020 17:17
 Operator : SY/AP
 Sample : L4347-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 3DL

Quant Time: Oct 13 00:05:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1146782	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4247934	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4217546	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	3074362	9.73	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%	

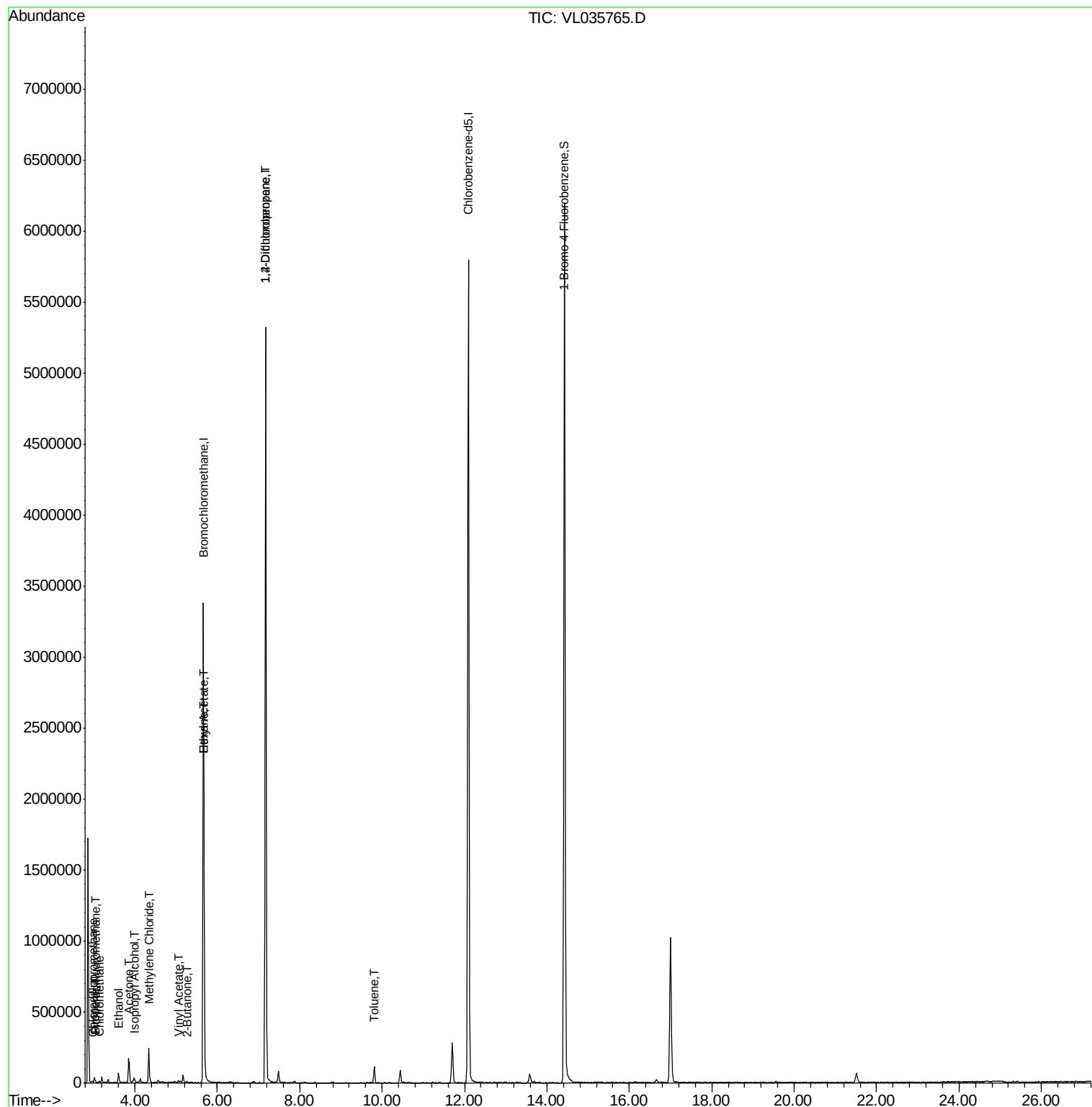
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	12446	0.066	ppbv	91
3) Chlorodifluoromethane	2.98	51	12419	0.101	ppbv #	74
4) Chloromethane	3.13	50	8654	0.131	ppbv	92
9) Propene	3.02	41	9022	0.201	ppbv	84
13) Ethanol	3.60	45	63674	5.764	ppbv	98
15) Acetone	3.85	43	162805	1.319	ppbv	96
19) Isopropyl Alcohol	3.98	45	30644	0.457	ppbv #	88
20) Methylene Chloride	4.34	84	107858	1.190	ppbv	97
23) Vinyl Acetate	5.06	43	9625	0.064	ppbv #	77
25) Ethyl Acetate	5.68	43	19622	0.088	ppbv #	95
26) Hexane	5.68	57	48227	0.396	ppbv #	55
34) 2-Butanone	5.26	43	10064	0.072	ppbv	96
39) 1,2-Dichloropropane	7.17	63	844612	8.419	ppbv #	31
53) Toluene	9.81	91	97286	0.298	ppbv	95

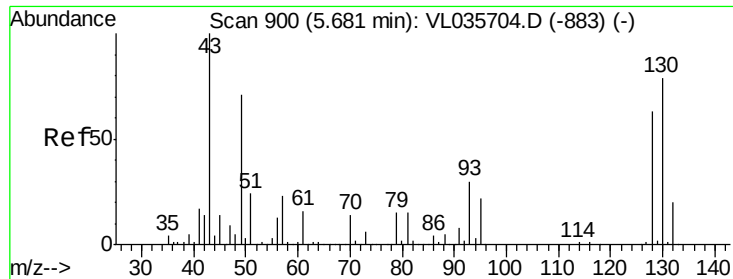
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 13 00:05:03 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035765.D

Acq: 12 Oct 2020 17:17

Instrument :

MSVOA_L

ClientSampleId :

3DL

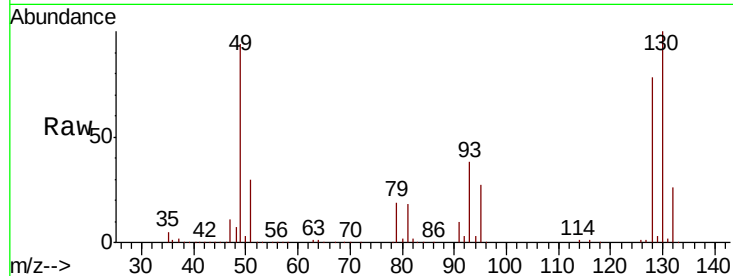
Tot Ion: 49 Resp: 1146782

Ion Ratio Lower Upper

49 100

128 83.8 43.1 129.4

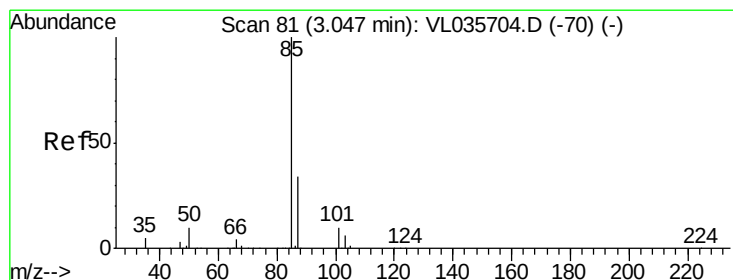
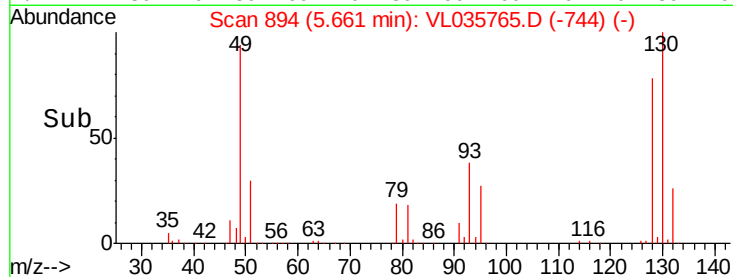
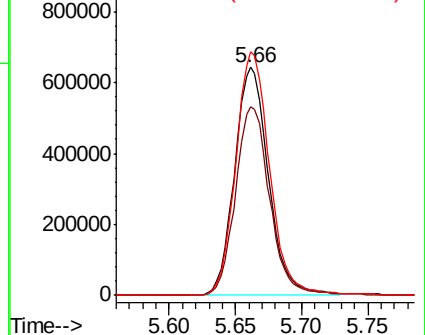
130 107.4 54.9 164.7



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: 0.066 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL035765.D

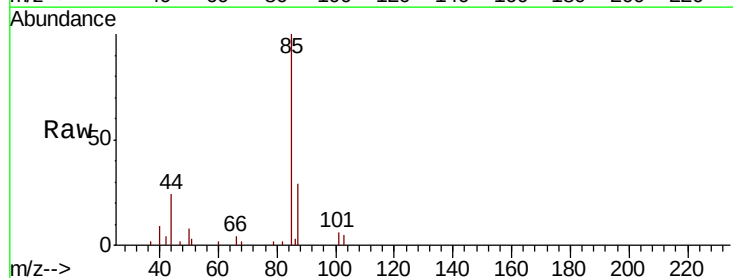
Acq: 12 Oct 2020 17:17

Tgt Ion: 85 Resp: 12446

Ion Ratio Lower Upper

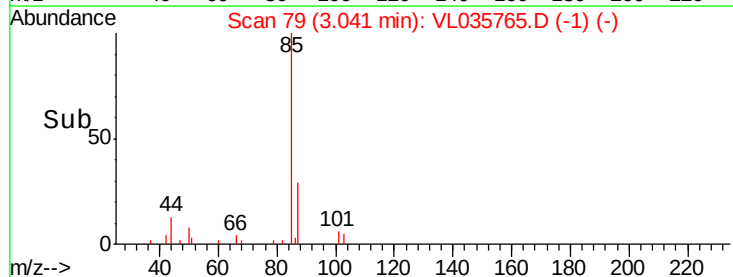
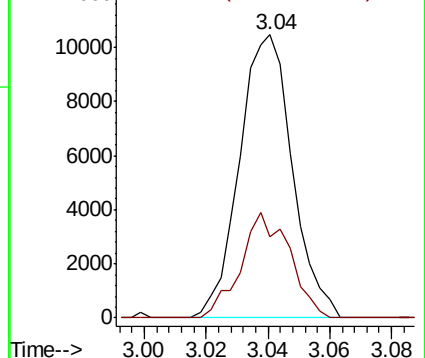
85 100

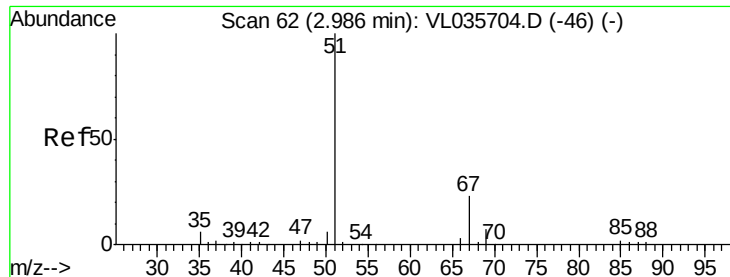
87 28.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.101 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL035765.D

Acq: 12 Oct 2020 17:17

Instrument :

MSVOA_L

ClientSampled :

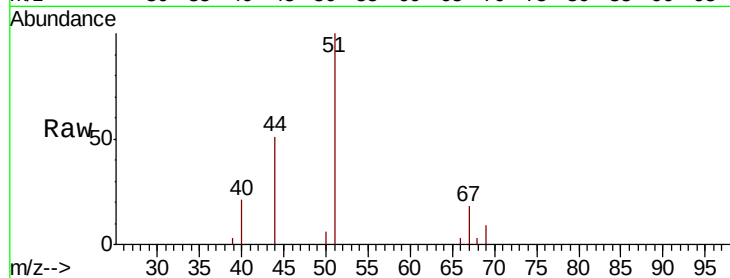
3DL

Tot Ion: 51 Resp: 12419

Ion Ratio Lower Upper

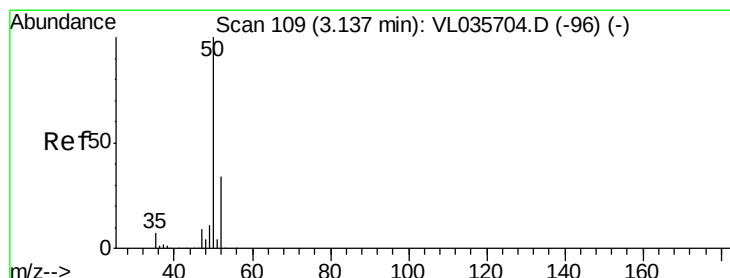
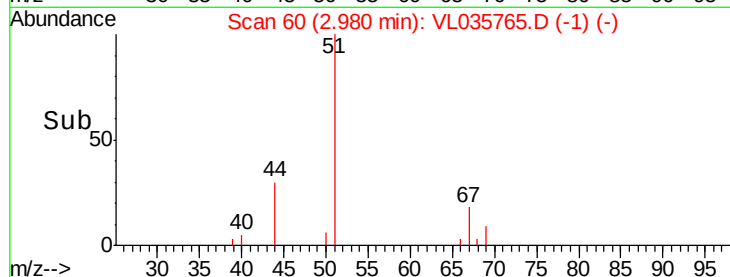
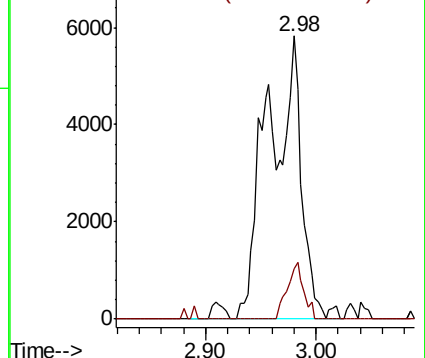
51 100

67 9.8 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.131 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035765.D

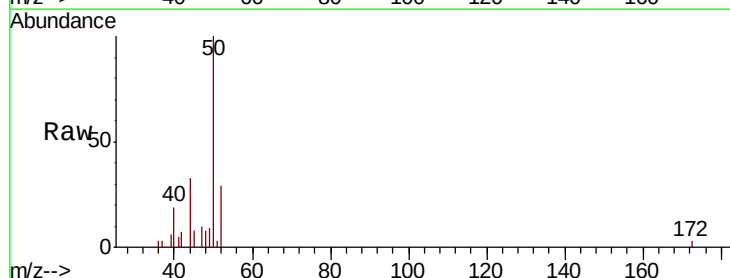
Acq: 12 Oct 2020 17:17

Tgt Ion: 50 Resp: 8654

Ion Ratio Lower Upper

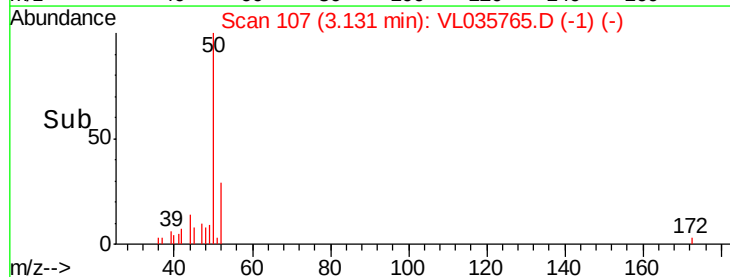
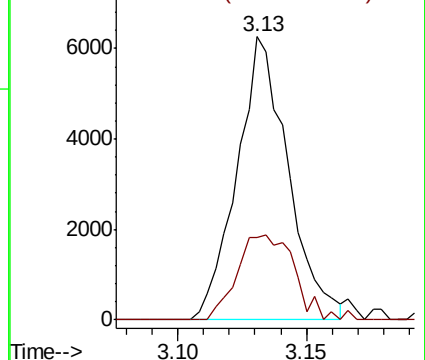
50 100

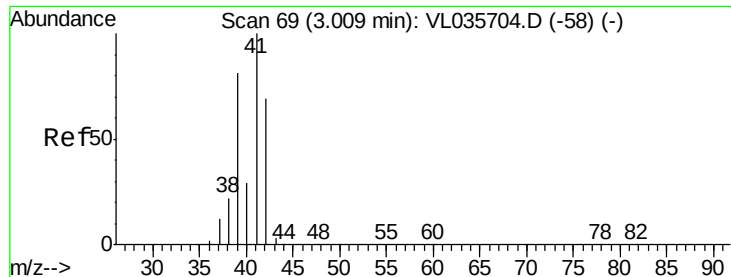
52 29.2 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.201 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035765.D

Acq: 12 Oct 2020 17:17

Instrument :

MSVOA_L

ClientSampleId :

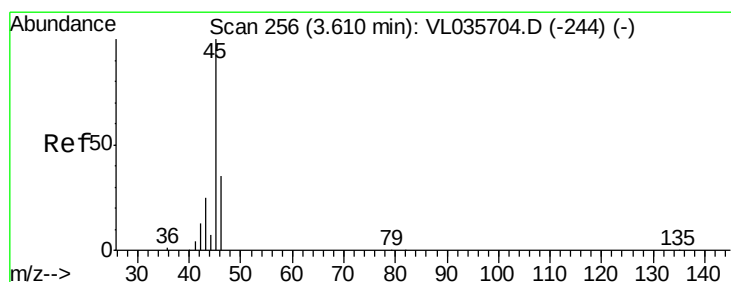
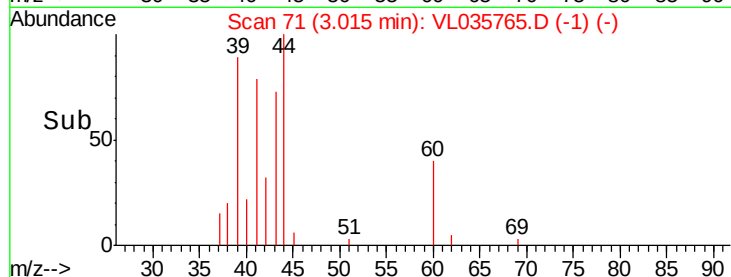
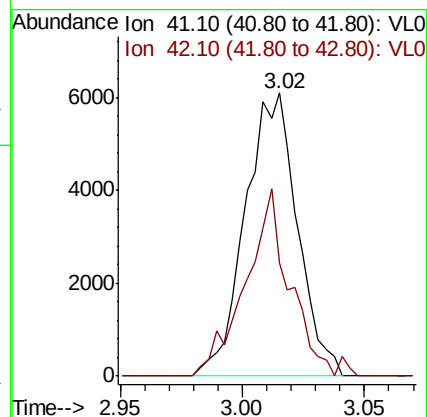
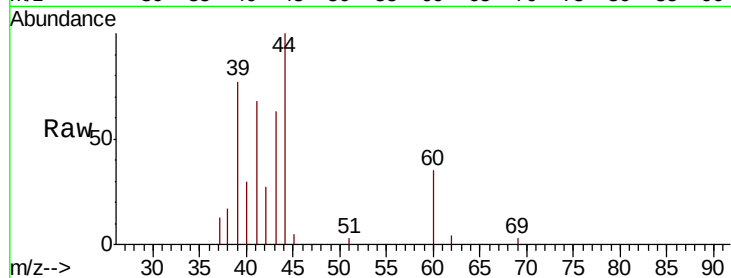
3DL

Tot Ion: 41 Resp: 9022

Ion Ratio Lower Upper

41 100

42 56.8 56.2 84.4



#13

Ethanol

Concen: 5.764 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035765.D

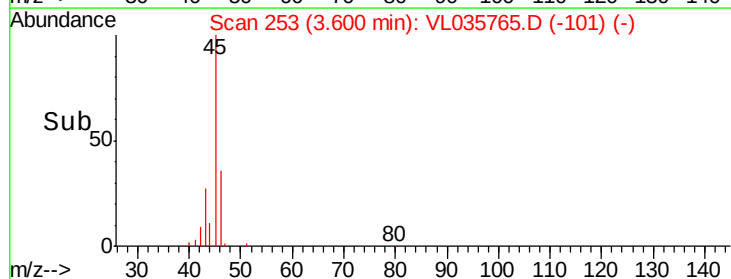
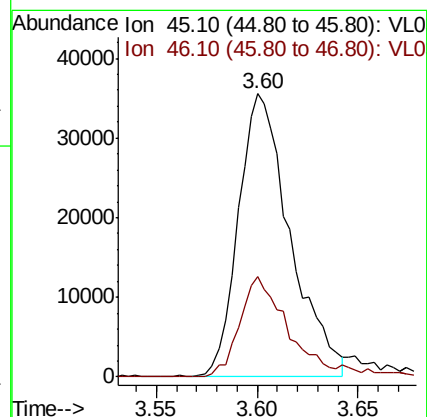
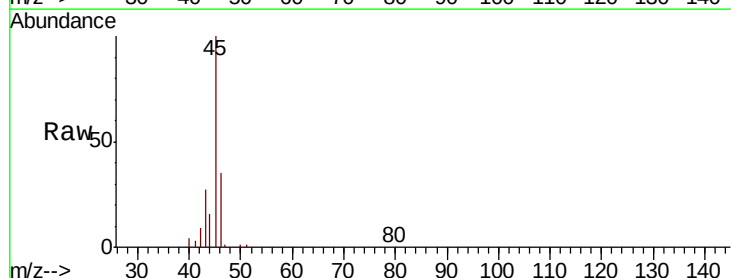
Acq: 12 Oct 2020 17:17

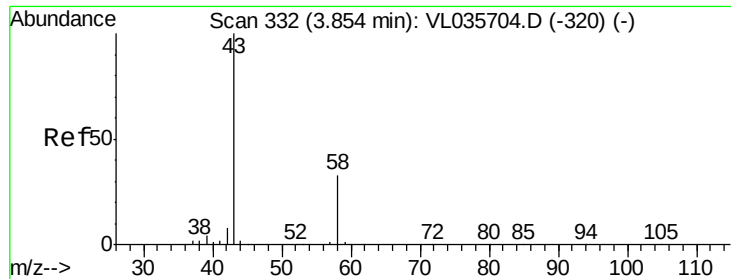
Tgt Ion: 45 Resp: 63674

Ion Ratio Lower Upper

45 100

46 35.4 14.7 58.7





#15

Acetone

Concen: 1.319 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL035765.D

Acq: 12 Oct 2020 17:17

Instrument :

MSVOA_L

ClientSampleId :

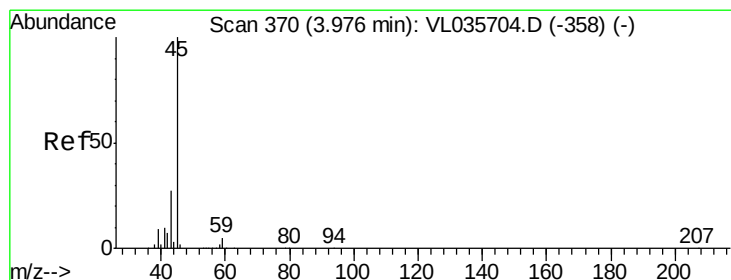
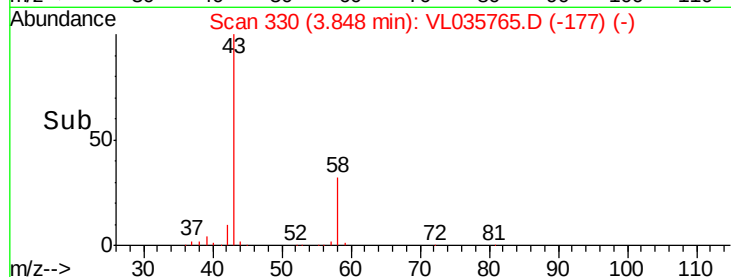
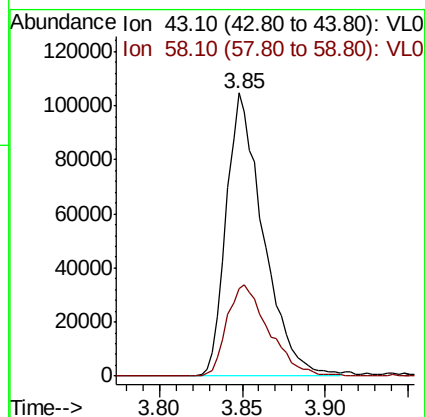
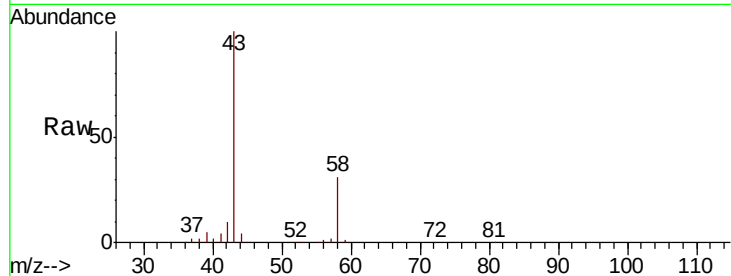
3DL

Tot Ion: 43 Resp: 162805

Ion Ratio Lower Upper

43 100

58 36.5 27.3 40.9



#19

Isopropyl Alcohol

Concen: 0.457 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL035765.D

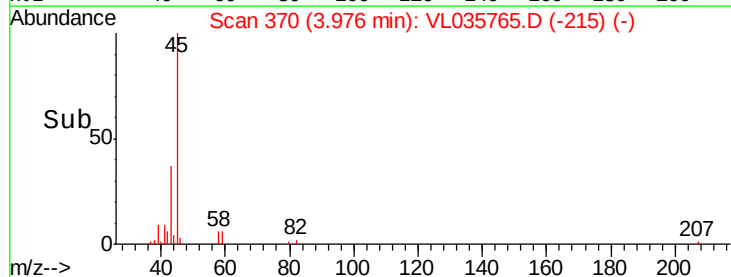
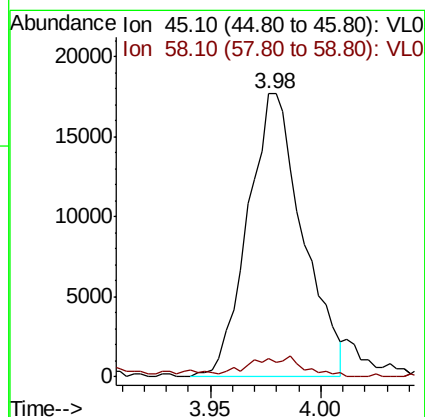
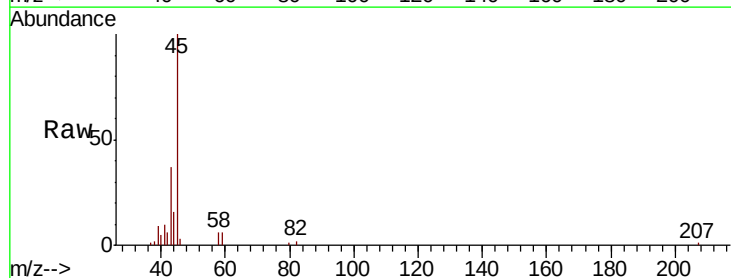
Acq: 12 Oct 2020 17:17

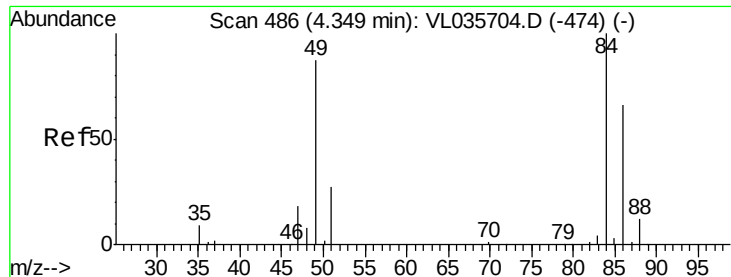
Tgt Ion: 45 Resp: 30644

Ion Ratio Lower Upper

45 100

58 7.6 2.8 4.2#

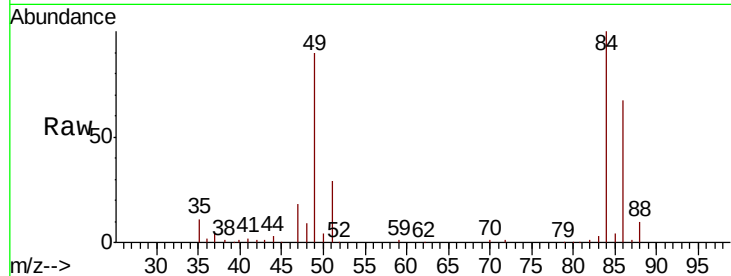




#20
Methvlene Chloride
Concen: 1.190 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL035765.D
Acq: 12 Oct 2020 17:17

Instrument :
MSVOA_L
ClientSampleId :
3DL

Tot Ion:	84	Resp:	107858
Ion	Ratio	Lower	Upper
84	100		
49	89.8	69.8	104.6
51	28.7	21.8	32.8
86	67.4	52.6	78.8



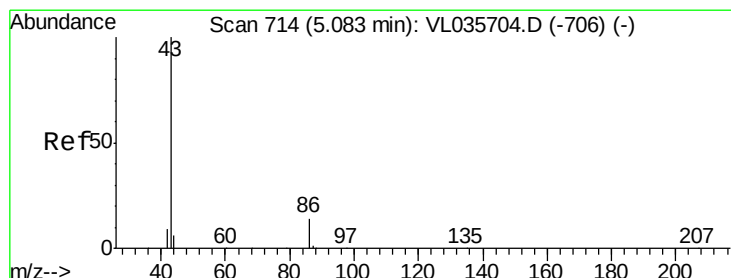
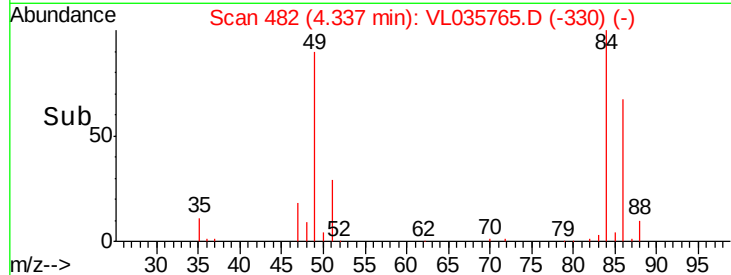
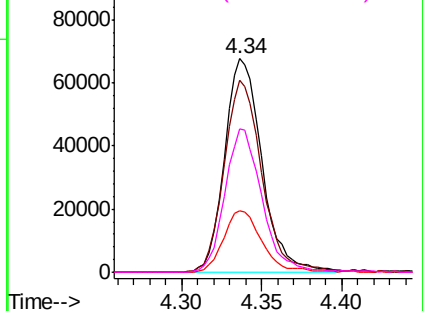
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

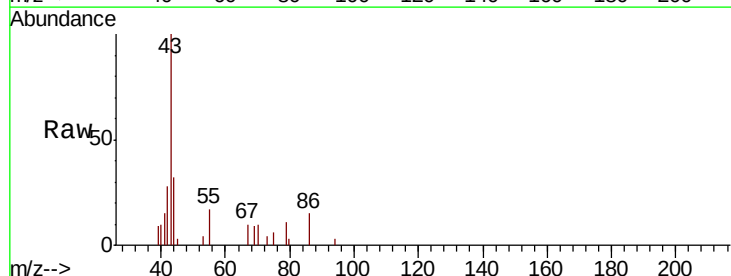
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.064 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL035765.D
Acq: 12 Oct 2020 17:17

Tgt Ion:	43	Resp:	9625
Ion	Ratio	Lower	Upper
43	100		
86	15.6	9.7	14.5#
42	25.4	7.9	11.9#
44	0.0	4.8	7.2#



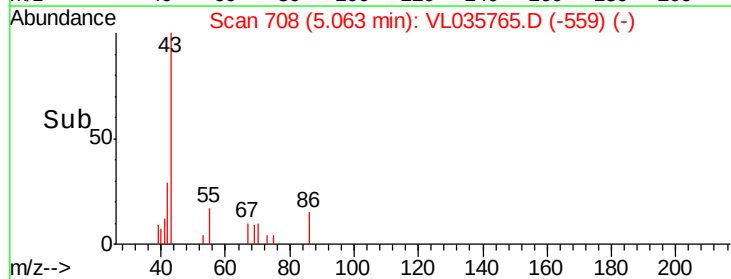
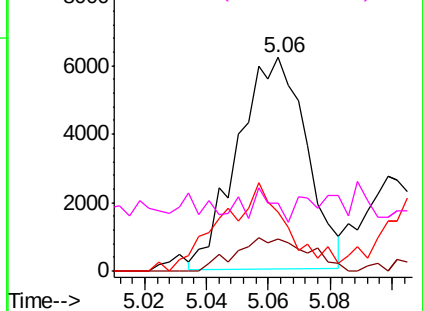
Abundance

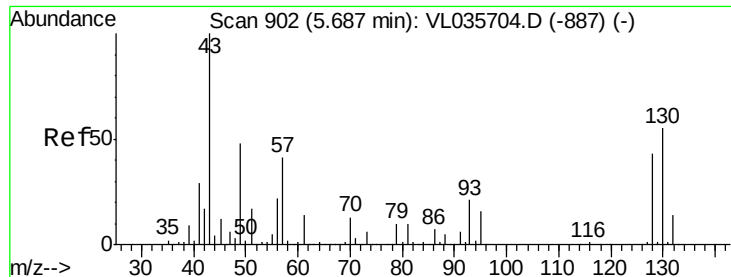
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

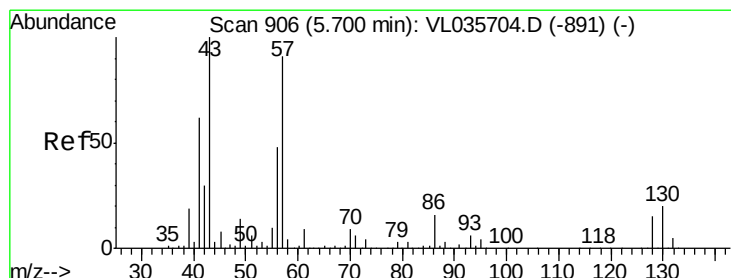
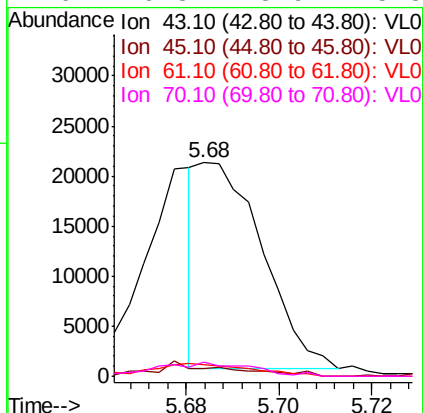
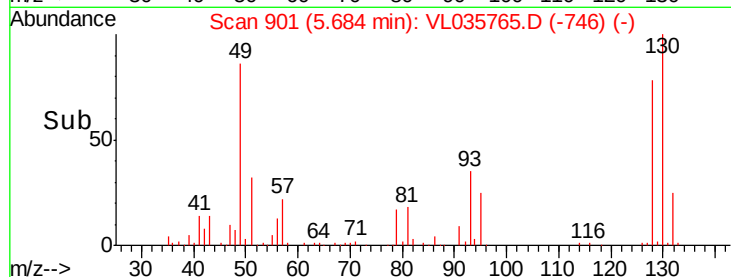
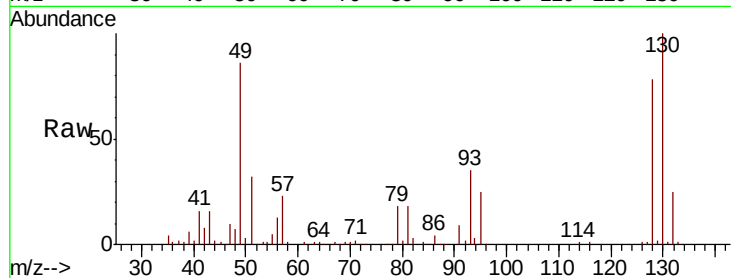




#25
Ethyl Acetate
Concen: 0.088 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035765.D
Acq: 12 Oct 2020 17:17

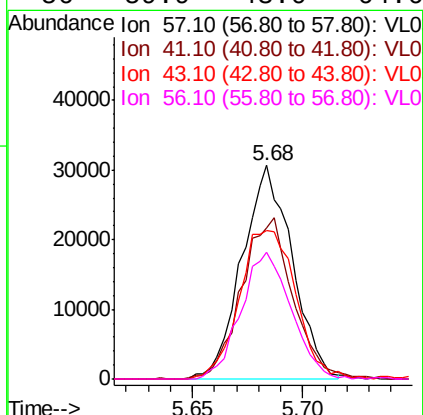
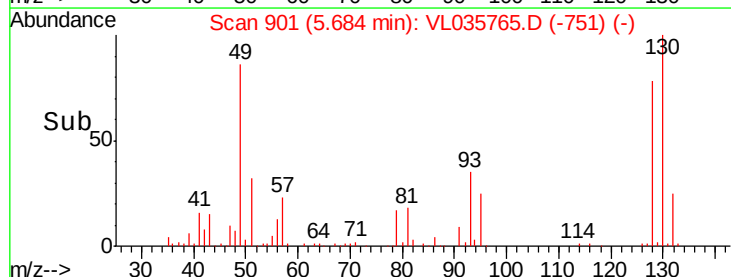
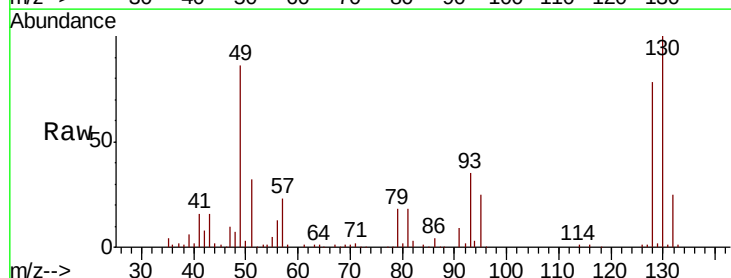
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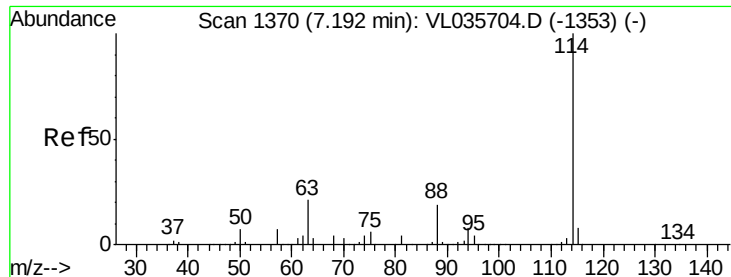
Tot Ion:	43	Resp:	19622
Ion	Ratio	Lower	Upper
43	100		
45	9.1	8.6	12.8
61	9.8	10.4	15.6#
70	10.3	8.9	13.3



#26
Hexane
Concen: 0.396 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035765.D
Acq: 12 Oct 2020 17:17

Tgt Ion:	57	Resp:	48227
Ion	Ratio	Lower	Upper
57	100		
41	77.6	57.9	86.9
43	78.6	143.8	215.6#
56	59.9	43.0	64.6

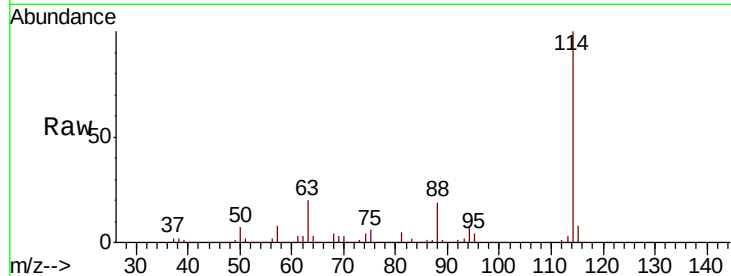




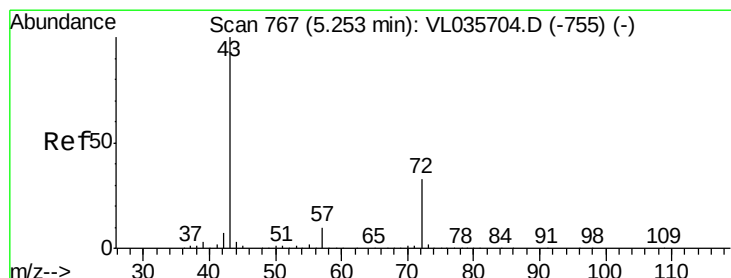
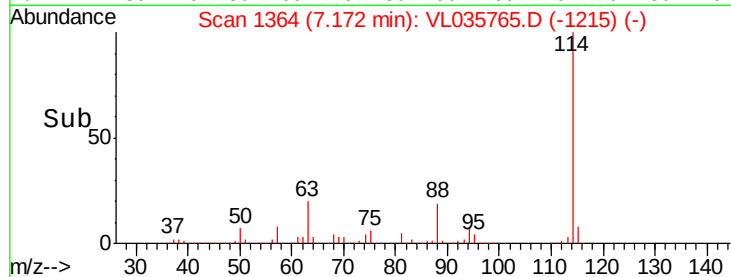
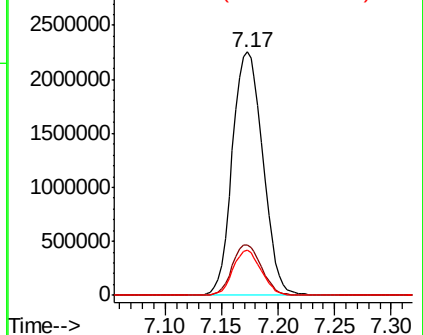
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL035765.D
 Acq: 12 Oct 2020 17:17

Instrument :
 MSVOA_L
 ClientSampleId :
 3DL

Tot Ion:114 Resp: 4247934
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.1 24.1
 88 17.3 14.1 21.1

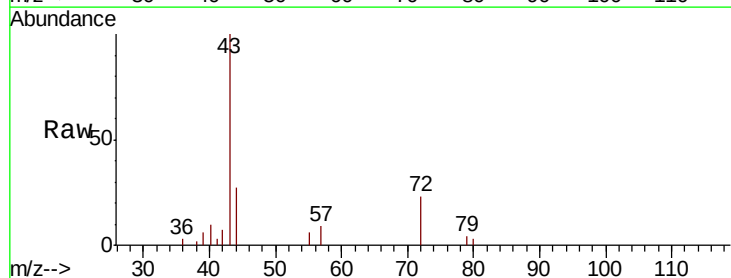


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

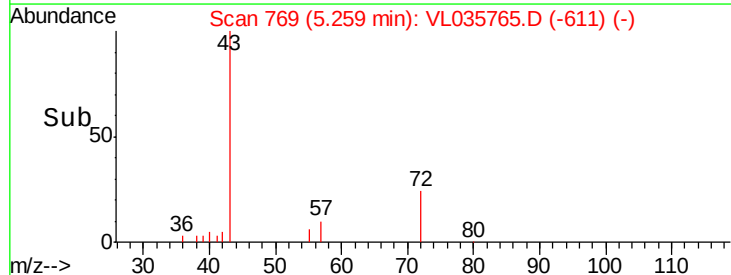
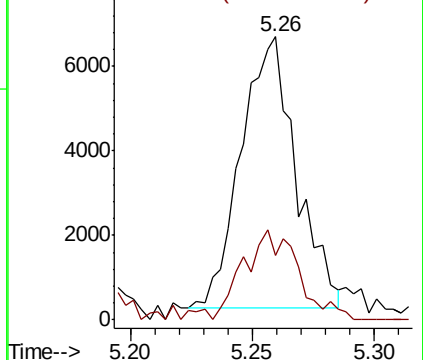


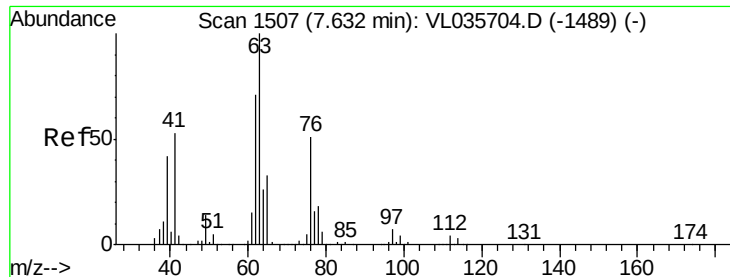
#34
 2-Butanone
 Concen: 0.072 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL035765.D
 Acq: 12 Oct 2020 17:17

Tgt Ion: 43 Resp: 10064
 Ion Ratio Lower Upper
 43 100
 72 34.8 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.419 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.46 min

Lab File: VL035765.D

Acq: 12 Oct 2020 17:17

Instrument :

MSVOA_L

ClientSampleId :

3DL

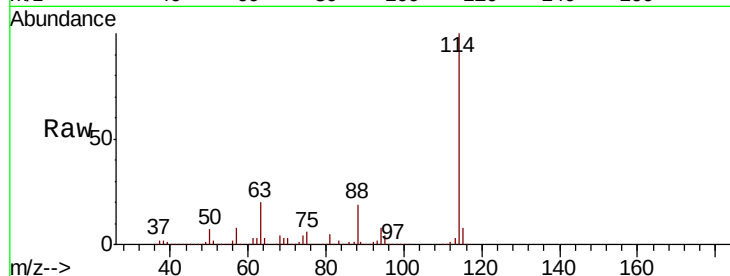
Tot Ion: 63 Resp: 844612

Ion Ratio Lower Upper

63 100

41 0.0 42.6 63.8#

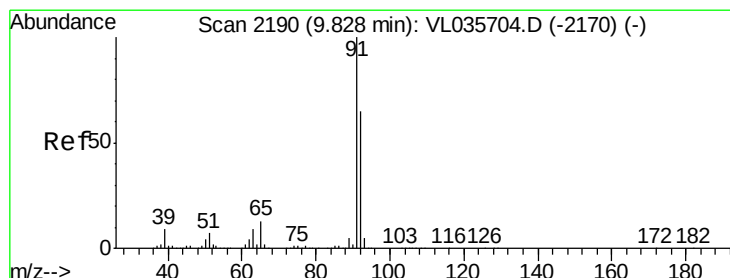
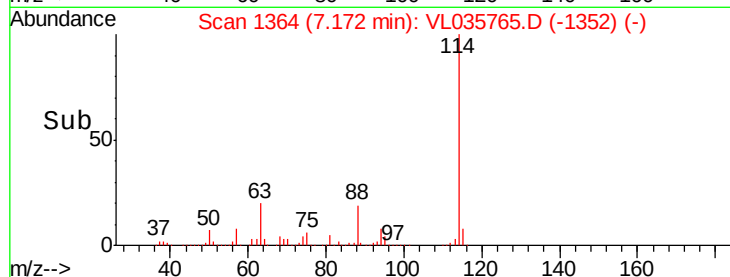
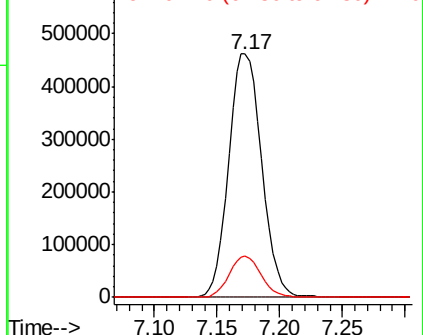
62 16.9 56.5 84.7#



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: 0.298 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035765.D

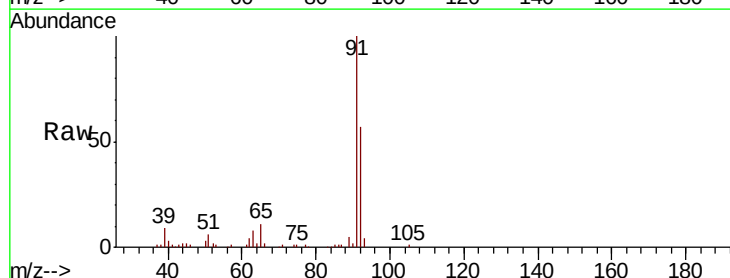
Acq: 12 Oct 2020 17:17

Tgt Ion: 91 Resp: 97286

Ion Ratio Lower Upper

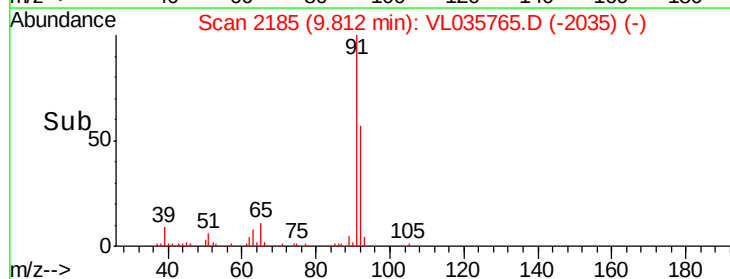
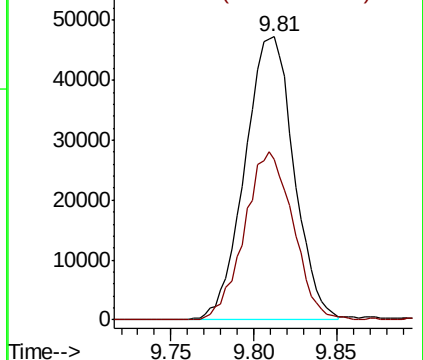
91 100

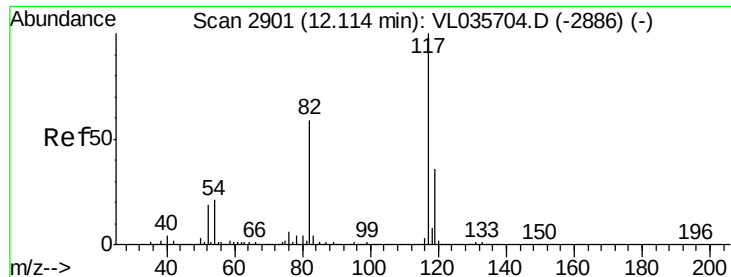
92 58.8 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

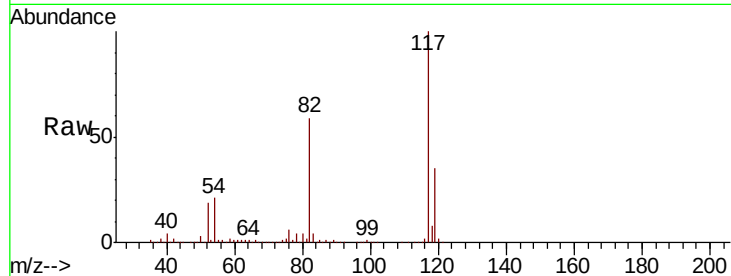




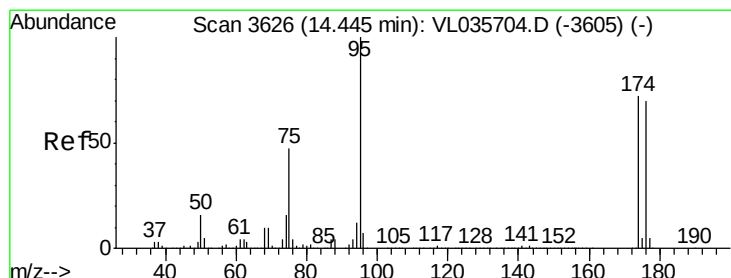
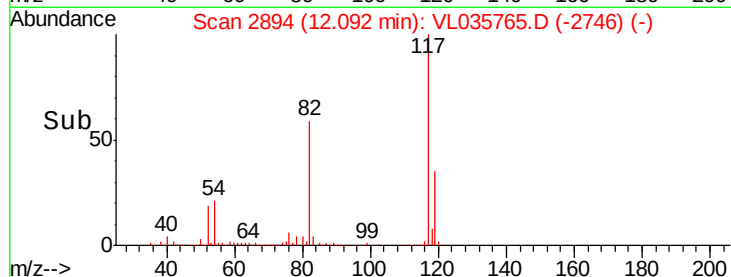
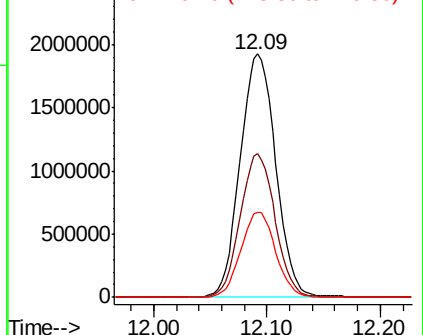
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.02 min
Lab File: VL035765.D
Acq: 12 Oct 2020 17:17

Instrument :
MSVOA_L
ClientSampled :
3DL

Tot Ion:117 Resp: 4217546
Ion Ratio Lower Upper
117 100
82 58.1 46.1 69.1
119 34.4 28.0 42.0

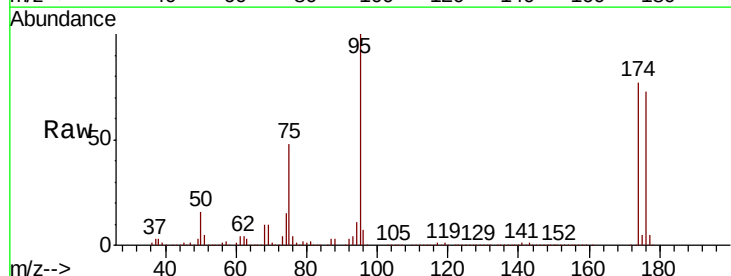


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.728 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. -0.02 min
Lab File: VL035765.D
Acq: 12 Oct 2020 17:17

Tgt Ion: 95 Resp: 3074362
Ion Ratio Lower Upper
95 100
174 77.6 59.6 89.4
175 5.6 4.2 6.4



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

